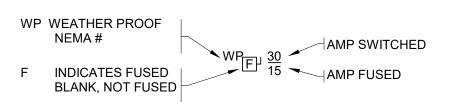
### **HVAC/MECHANICAL EQUIPMENT LEGEND**

- MANUAL MOTOR STARTER W/THERMAL ELEMENT
- NON-FUSED SAFETY SWITCH (SEE SAFETY SWITCH DESIGNATION KEY)
- MAGNETIC MOTOR STARTER FURNISHED BY OTHERS WIRED BY E.C.
- COMBINATION MAGNETIC MOTOR STARTER AND DISCONNECT SWITCH FURNISHED
- FURNISHED AND INSTALLED WITH INTEGRAL FILTERS BY OTHERS WIRED
- BY ELECTRICAL CONTRACTOR
- AUTOMATIC TEMPERATURE CONTROL PANEL FURNISHED AND INSTALLED BY OTHERS (LOW VOLTAGE CONTROL WIRING FURNISHED AND INSTALLED BY OTHERS) 120V BRANCH CIRCUIT BY E.C.

MAGNETIC CONTACTOR (FURNISHED AND INSTALLED BY OTHERS WIRED BY E.C.)

- MOTOR-NUMBER INDICATES HORSEPOWER
- MOTORIZED DAMPER
- RTU INDICATES EQUIPMENT TYPE EQUIPMENT REFERENCE NUMBER
- СВ ENCLOSED CIRCUIT BREAKER
- **EPO BUTTON**
- HEAT TRACE (FURNISHED AND INSTALLED BY OTHERS WIRED BY E.C.)
- HEAT TRACE CABLING (FURNISHED AND INSTALLED BY OTHERS WIRED BY E.C.)

### SAFETY SWITCH DESIGNATION KEY



### **HVAC/MECHANICAL EQUIPMENT NOTES:**

- 1. VOLTAGE, CURRENT, AND QUANTITY OF TERMINATION POLES SHALL MEET OR EXCEED THE SOURCE CAPACITY AND WIRING REQUIREMENTS OF THE BRANCH CIRCUIT.
- 2. ALL DISTRIBUTION EQUIPMENT SHALL HAVE ADHESIVE BACKED IDENTIFICATION LABELS.
- COORDINATE FUSE SIZE AND TYPE PER EQUIPMENT NAME PLATE.

WIRING METHODS SCHEDULE				
LOCATION	RACEWAY	FITTINGS	SUPPORTS (NOTE 2)	REMARKS
UNDERGROUND	PVC-EB PVC-DB	GLUED	N/A	234
EXPOSED EXTERIOR	PVC-SCH 40	GLUED	SEE NOTE 1	1
EXPOSED INTERIOR	EMT MC CABLE	SET SCREW CLAMP	3'/10' 1'/6'	5
CONCEALED INTERIOR FEEDERS	EMT MC CABLE	SET SCREW CLAMP	3'/10' 1'/6'	(5)
CONCEALED INTERIOR BRANCH	MC CABLE	CLAMP	1'/6'	

### **WIRING METHODS NOTES**

- 1. WIRING METHODS AND MATERIALS TO BE PROVIDED IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC ARTICLE 300.
- 2. FLEXIBLE METALLIC CONDUIT (LIQUID-TIGHT WHERE SUBJECT TO MOISTURE) SHALL BE UTILIZED BETWEEN NON-FLEXIBLE AND VIBRATING COMPONENTS, IN ACCORDANCE WITH NFPA-70-2014 PER ARTICLES 348 AND 350.
- 3. MAXIMUM DISTANCE FROM CONNECTOR OR COUPLING/MAXIMUM DISTANCE BETWEEN SUPPORTS
- 4. EXPANSION FITTINGS AS SUGGESTED BY THE MANUFACTURER AND/OR AS REQUIRED BY PROJECT.
- 5. BENDS SHALL NOT EXCEED FOUR QUARTER BENDS (360° (DEGREES) TOTAL) BETWEEN PULL POINTS, CONDUIT BODIES CLEAR PULLING POSITIONS SHALL BE MAINTAINED.
- 6. CONDUIT PENETRATIONS AND ELECTRICAL INSTALLATIONS SHALL BE MADE AS REQUIRED TO LIMIT THE SPREAD OF FIRE AND PRODUCTS OF COMBUSTION IN ACCORDANCE WITH SECTION 300.21.
- 7. CONDUIT PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE SEALED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

### **REMARKS:**

- USE PVC SCHD 80, IMC, OR, RGS AS REQUIRED OR WHERE SUBJECT TO DAMAGE.
- SEE TRENCH DETAIL FOR PLACEMENT, ELEVATION AND WARNINGS.
- COORDINATE UTILITY REQUIREMENTS WHERE APPLICABLE. UNDER GROUND CONDUITS TO BE 3/4" DIAMETER MINIMUM.
- (5) FIRE ALARM CABLING SHALL BE FPLP, FPLP, OR METAL CLAD 3/8" ARMORED CABLE.

### RECEPTACLE LEGEND

FURNISHED BY OTHERS.

JUNCTION BOX

WINDOW AIR CONDITIONER

ELECTRIC WATER COOLER

**COMMUNICATION LEGEND** 

GARBAGE DISPOSAL

COUNTER TOP MOUNTED

CORD DROP

DISHWASHER

DEDICATED

DRYER

CD

### NUMBER INDICATES CIRCUIT NUMBER, WALL MOUNTING HEIGHT 18" AFF. (U.O.N. TYPICAL) LETTER INDICATES PREFIX (SEE LISTING BELOW). 480/277V PANEL 208/120V PANEL DUPLEX RECEPTACLE, NEMA 5-20R SPECIAL PURPOSE RECEPTACLE, "A" INDICATES NEMA TYPE. (SEE SPECIAL PUPOSE SCHEDULE) SINGLE RECEPTACLE, NEMA 5-20R PREFIX (SEE BELOW) DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R 4 - 480/277V SWITCHED DUPLEX RECEPTACLE, NEMA 5-20R 2 - 208/120V GROUND FAULT INTERRUPTING RECEPTACLE **B-BASEMENT** RECEPTACLE, NEMA 5-20R, ON LOAD SIDE OF A GFCI DEVICE OR GFCI CB G-GROUND FLOOR 1-FIRST FLOOR 2,3,4,...ETC. DOUBLE GROUND FAULT INTERRUPTING RECEPTACLE NEXT PANEL IN FLUSH FLOOR MOUNTED POKE THRU SUCCESSION-A. B,C,D,...ECT. POWER POLE POWER FURNITURE FEED. "P" DENOTES POWER "T" DENOTES TEL/DATA CIRCUIT NO. (31) FLUSH WALL OUTLET BOXES FOR POWER AND TELEPHONE/DATA CONNECTION TO OFFICE FURNITURE PARTITION SYSTEM. FURNITURE "WHIP" (IF SHOWN)

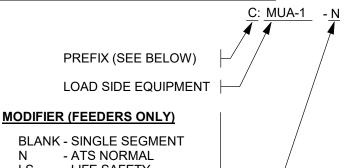
### **PANEL PREFIX LISTING**

**PANEL BOARD SYMBOL KEY** 

- CB CRITICAL BRANCH DP - DISTRIBUTION PANEL **EQ - EQUIPMENT BRANCH**
- H HVAC BRANCH **HP - HOUSE PANEL**
- LIGHTING BRANCH
- LS LIFE SAFETY BRANCH LR - LEGALLY REQUIRED
- MECHANICAL BRANCH - POWER BRANCH
- SB STAND-BY BRANCH

T - TENANT

## ONE LINE PREFIX KEY



- LIFE SAFETY - OPTIONAL STANDBY - LEGALLY REQUIRED
- CRITICAL
- EQUIPMENT BRANCH - PRIMARY OF XFMR

### ONE LINE PREFIX LISTING

- RECESSED FLUSH FLOOR VOICE/DATA OUTLET "#" INDICATES NUMBER OF CABLES. BD: - BUSDUCT
- SPEAKER HORN

SYSTEMS FURNITURE FIRE-RATED FLUSH POKE-THRU TELECOMMUNICATIONS

PATHWAY. COORDINATE TELECOMMUNICATIONS REQUIREMENTS PRIOR TO ROUGH IN

MULTI-OUTLET ASSEMBLY WITH OUTLETS ON CENTERS AS INDICATED, (SEE SPECIFICATION)

LOAD SIDE OF GFCI DEVICE

WEATHERPROOF (NEMA 3R)

WEATHER RESISTANCE

EXPLOSION PROOF

HOSPITAL GRADE

RANGE

**TELEVISION** 

ELECTRIC VEHICLE CHARGER. U.O.N. POWER BY E.C. CHARGER BY OWNER.

HG

WR

ΧP

COMBINATION VOICE/DATA OUTLET, "#" INDICATES NUMBER OF CABLES

SURFACE RACEWAY, DEVICES INDICATED ON DRAWING.

HAND DRYER, PROVIDED BY OTHERS, WIRED BY E.C.

DATA OUTLET, "#" INDICATES NUMBER OF CABLES.

VOICE OUTLET, "W" INDICATES WALL MOUNTED PHONE.

FLUSH FLOOR MOUNTED VOICE/DATA FURNITURE FEED

WALL MOUNTED VOICE/DATA FURNITURE FEED

**POWER DEVICE PREFIX LISTING** 

- WALL MOUNTED VOLUME CONTROL. MOUNTING HEIGHT 18" A.F.F.
- **TELEVISION MONITOR**

**SPEAKER** 

WIRELESS ACCESS POINT, POWER OVER IP, FURNISHED BY OTHERS WIRED BY E.C.

### CABLE TRAY

- DEMARC SERVICE ENTRANCE BOX
- RACP RESCUE ASSISTANCE CONTROL PANEL
- RESCUE ASSISTANCE POWER SUPPLY
- RESCUE ASSISTANCE PHONE

### TELEPHONE BACKBOARD

- TELECOMMUNICATIONS RACK
- **TELECOMMUNICATIONS CABINET**
- **IN-RACK UPS**
- WALL MOUNTED RACK CABINET

### **COMMUNICATION LEGEND NOTES:**

1. UNLESS OTHERWISE NOTED E.C. TO PROVIDE SINGLE GANG PLASTER RING AT DEVICE SYMBOL LOCATION AND PROVIDE A PULLSTRING TO NEAREST ACCESSIBLE POINT ONLY.

### **LEGEND NOTES:**

NOT ALL SYMBOLS SHOWN ON THIS DRAWING MAY BE USED ON PROJECT. SEE FLOOR PLANS FOR QUANTITIES AND LOCATIONS.



## SECONDARY OF XFMR

- CONDUIT AND CONDUTORS CB: - CIRCUIT BREAKER
- GENERATOR
- INV: INVERTER
- M: MOTOR LOAD MCB: - MAIN CIRCUIT BREAKER
- PV: PHOTOVOLTAIC SYSTEM
- SW: DISCONNECT SWITCH
- UT: UTILITY SOURCE

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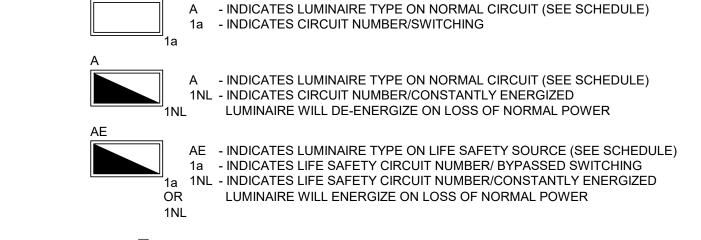
BE USED BY ANY INDIVIDUAL OR COMPANY OTHER THAN IES AS A

### ATS: - AUTOMATIC TRANSFER SWITCH

- FUSES IN DISCONNECT SWITCH

- TRANSFORMER **UPS: - UNINTERRUPTABLE POWER SUPPLY**

### LIGHTING LEGEND



# REFER TO FLOOR PLANS AND/OR DETAILS.

- **ROUND WALL WASHER LUMINAIRE**
- ROUND SURFACE, RECESSED, OR PENDANT MOUNTED LUMINIARE
- STRIP LUMINIARE
  - TRACK LIGHTING. LENGTH AND NUMBER OF TRACK HEADS AS INDICATED

SURFACE, RECESSED, OR PENDANT MOUNTED LINEAR 1'x4', 2'x2' AND 2'x4'

LIGHTING LUMINAIRE (SEE SCHEDULE). FOR EXACT MOUNTING AND LENGTHS

- ON THE DRAWINGS WALL MOUNTED LUMINIARE
- LOADING DOCK LIGHT

**BOLLARD WITH LIGHT** 

- WALL MOUNTED EXIT LIGHT. ARROW (IF SHOWN), INDICATES DIRECTION OF EGRESS. FILL INDICATES NUMBER OF FACES
- CEILING OR PENDANT MOUNTED EXIT LIGHT. ARROW (IF SHOWN), INDICATES DIRECTION OF EGRESS. FILL INDICATES NUMBER OF FACES
- EXIT LIGHT WITH DUAL HEADS, ARROWS (IF SHOWN) INDICATE DIRECTION OF EGRESS. FILL INDICATES NUMBER OF FACES.
- EMERGENCY DUAL HEAD BATTERY UNIT
- REMOTE MOUNTED EMERGENCY LIGHTING DUAL HEAD UNIT
- BATTERY UNIT FOR REMOTE EMERGENCY LIGHTING
- DARK ROOM IN-USE LUMINIARE
- ON AIR IN-USE LUMINIARE
- SITE POLE MOUNTED LUMINAIRE
- WALL PACK LUMINIARE FLOOD LIGHT
- **EMERGENCY LIGHTING INVERTER**

### LIGHTING CONTROL LEGEND

- S SWITCH (SEE PREFIX LISTING)
- EMERGENCY LIGHTING BYPASS RELAY
- **RELAY CONTROL MODULE**
- LINE VOLTAGE / LOW VOLTAGE POWER PACK
- LINE VOLTAGE / LOW VOLTAGE DUAL RELAY POWER PACK
- CEILING MOUNTED SENSOR (SEE COVERAGE AREA FOR MODIFICATION)
- $T_{C}$ TIME CLOCK
- PHOTO-CELL/DAYLIGHT SENSOR
- #- # INDICATES SPECIFIC ZONE LIGHTING CONTROL CONVERTER OR COUPLER

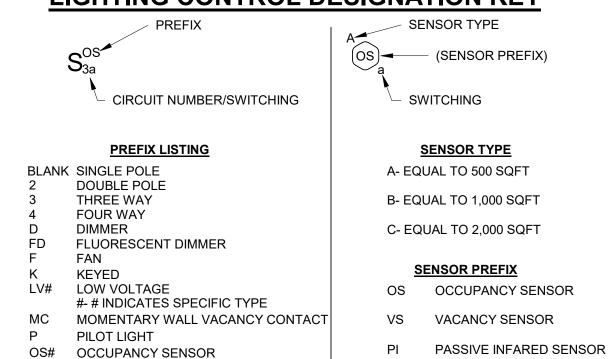
#- # INDICATES SPECIFIC TYPE

#- # INDICATES SPECIFIC TYPE

TIMER SWITCH

VS# VACANCY SENSOR

### LIGHTING CONTROL DESIGNATION KEY



1/31/2019

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Civil Engineer

### Structural Engineer

P 603 442 9333

**Engineering Ventures** 208 Flynn Ave., Suite 2A Burlington, VT 05401 P 802 863 6225

## Mechanical Engineer

Vermont Heating and Ventilating 16 Tigan St., Suite A Winooski, VT 05404 P 802 655 8805

### Electrical Engineer

Interstate Electrical Services 281 Olcott Drive White River Junction, VT 05001 P 855 500 4372

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Revised

Description

Date

Newport Community NEWPORT, NH

Proj. No: . Drawn: CS Date: 1/31/2019 Chk'd: **LEGEND** SYMBOLS & **GENERAL NOTES** 

DESIGN DEVELOPMENT

### **COMMUNICATION LEGEND** VOICE AND/OR DATA OUTLET, "#" INDICATES NUMBER OF CABLES VOICE OUTLET, "W" INDICATES WALL MOUNTED PHONE FLUSH FLOOR MOUNTED VOICE/DATA FURNITURE FEED WALL MOUNTED VOICE/DATA FURNITURE FEED SYSTEMS FURNITURE FIRE-RATED FLUSH POKE-THRU TELECOMMUNICATIONS PATHWAY, COORDINATE TELECOMMUNICATIONS REQUIREMENTS PRIOR TO ROUGH IN. RECESSED FLUSH FLOOR VOICE/DATA OUTLET "#" INDICATES NUMBER OF CABLES. SPEAKER HORN WALL MOUNTED VOLUME CONTROL. MOUNTING HEIGHT 18" A.F.F. SPEAKER TELEVISION MONITOR WIRELESS ACCESS POINT, POWER OVER IP, FURNISHED BY OTHERS, WIRED BY E.C. CABLE TRAY **COMMUNICATION LEGEND NOTES** UNLESS OTHERWISE NOTED, E.C. TO PROVIDE SINGLE GANG PLASTER RING AT DEVICE SYMBOL LOCATION AND PROVIDE A PULL STRING TO NEAREST ACCESSIBLE POINT ONLY.

# **BreadLoaf**

PANEL BOARD SYMBOL KEY

120/208V

480/277V

PANEL

PREFIX (SEE BELOW)

4 - 480/277V 2 - 208/120V

B - BASEMENT

2,3,4,...ETC.

G - GROUND FLOOR

1 - FIRST FLOOR

NEXT PANEL IN

SUCCESSION -A,B,C,D,...ETC.

CIRCUIT NO. (31)

PANEL PREFIX LISTING

CB - CRITICAL BRANCH

H - HVAC BRANCH HP - HOUSE PANEL

L - LIGHTING BRANCH

P - POWER BRANCH

T - TENANT

SB - STAND-BY PANEL

DP - DISTRIBUTION PANEL EQ - EQUIPMENT BRANCH

LS - LIFE SAFETY BRANCH

M - MECHANICAL BRANCH

LR - LEGALLY REQUIRED

# Architects Planners Builders

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Structural Engineer

Engineering Ventures 208 Flynn Ave., Suite 2A Burlington, VT 05401 P 802 863 6225

### Mechanical Engineer

Vermont Heating and Ventilating 16 Tigan St., Suite A Winooski, VT 05404 P 802 655 8805

### Electrical Engineer

Interstate Electrical Services 281 Olcott Drive White River Junction, VT 05001 P 855 500 4372

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Revised

No. Date Description

Newport Community
Center
NEWPORT, NH

Proj. No: - Drawn: CS

Date: 01/31/2019 Chk'd: -

LEGEND, SYMBOLS AND GENERAL NOTES

01/31/2019

01/31/2

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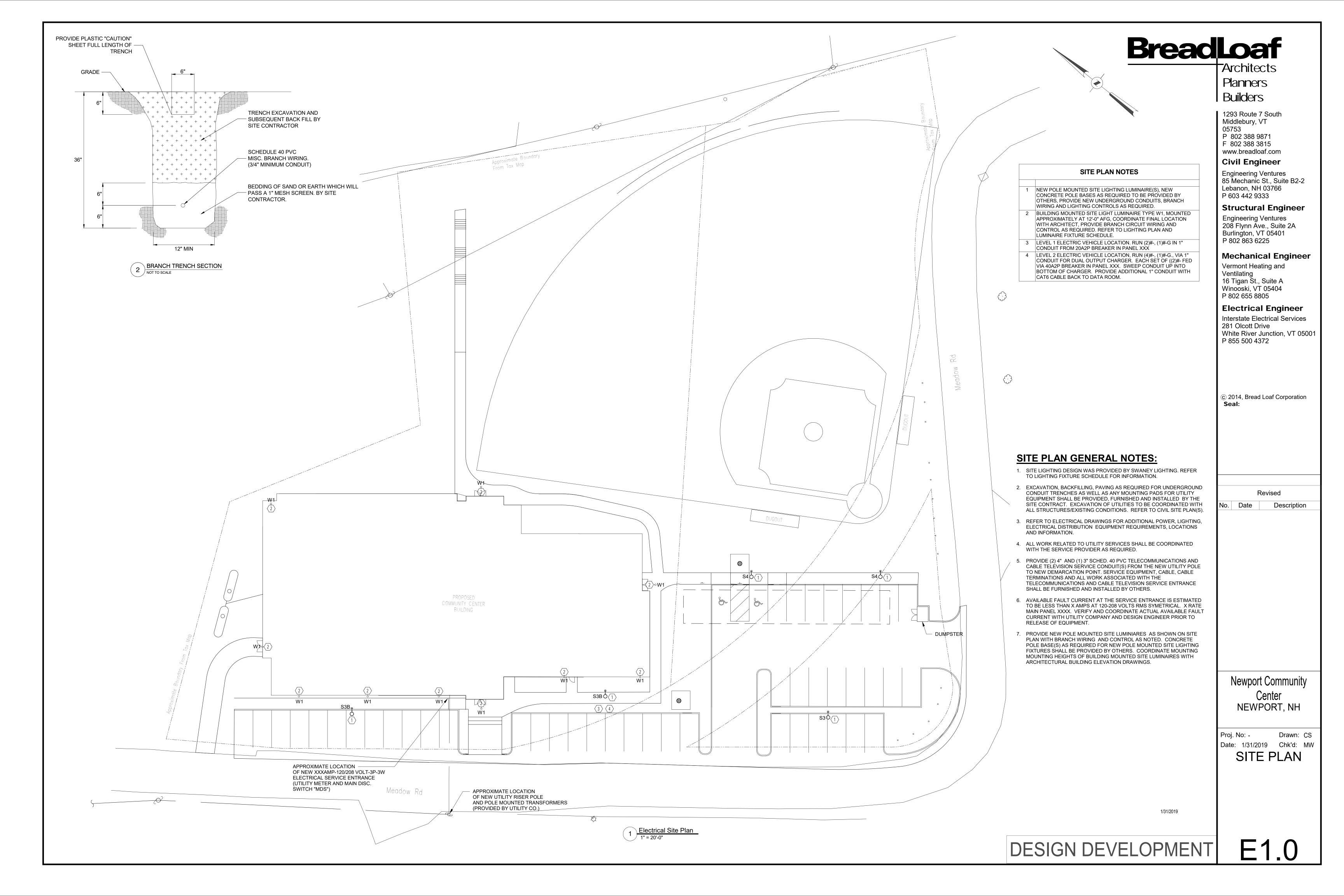
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FEEDER SIZES - COPPER CONDUCTORS					
FEEDER SYMBOL	CONDUCTORS 3-PHASE 3-WIRE WITH GROUND	CONDUCTORS 3-PHASE 4-WIRE WITH GROUND	NORMAL AMPERE RATING		
60 X	3#6 & 1#10 GND, 3/4"C.	4#6 & 1#10 GND, 1"C.	60		
(70) X	3#4 & 1#8 GND, 1"C.	4#4 & 1#8 GND, 1-1/4"C.	70		
(100) X	3#3 & 1#8 GND, 1-1/4"C.	4#3 & 1#8 GND, 1-1/4"C.	100		
125 X	3#1&1#6 GND, 1-1/2"C.	4#1 & 1#6 GND, 1-1/2"C.	125		
(150) X	3#1/0 & 1#6 GND, 1-1/2"C.	4#1/0 & 1#6 G, 2"C.	150		
(175) X	3#2/0 & 1#6 GND, 2"C.	4#2/0 & 1#6 GND, 2"C.	175		
200 X	3#3/0 & 1#6 GND, 2"C.	4#3/0 & 1#6 GND, 2"C.	200		
225 X	3#4/0 & 1#4 GND, 2"C.	4#4/0 & 1#4 GND, 2-1/2"C.	225		
250 X	3#250MCM & 1#4 GND, 2-1/2"C.	4#250MCM & 1#4GND, 2-1/2"C.	250		
300	3#350MCM & 1#4 GND, 2-1/2"C.	4#350MCM & 1#4 GND, 3"C.	300		
<u> </u>	OR (2) 3#1/0 & 1#4 GND 1 1/2"C.	OR (2) 4#1/0 & 1#4 GND, 2"C.			
350	3#500MCM & 1#3 GND, 3"C.	4#500MCM & 1#3 GND, 3"C.	350		
<u>X</u>	OR (2) 3#2/0 & 1#3 GND 2"C.	OR (2) 4#2/0 & 1#3 GND, 2"C.			
400	3#500MCM & 1#3 GND, 3"C.	4#500MCM & 1#3 GND, 3"C.	400		
X	OR (2) 3#3/0 & 1#3 GND, 2"C.	OR (2) 4#3/0 & 1#3 GND, 2"C.	400		
500	(2) 3#250MCM & 1#2 GND, 2-1/2"C.	(2) 4#250MCM & 1#2GND,2-1/2"C.			
$ \langle x \rangle$	OR (3) 3#2/0 & 1#2 GND 2"C.	OR (3) 4#2/0 & 1#2 GND, 2"C.	500		
600	(2)3#350MCM & 1#1 GND, 2-1/2"C.	(2) 4#350MCM & 1#1 GND, 3"C.			
$\left \begin{array}{c} X \\ X \end{array}\right $	OR (3) 3#3/0 & 1#1 GND, 2"C.	OR (3) 4#3/0 & 1#1 GND, 2"C.	600		
(700) X	(2) 3#500MCM & 1#1/0 GND, 3"C.	(2) 4#500MCM & 1#1/0 GND, 3"C.	700		
800	(3) 3#300MCM & 1#1/0 GND, 2-1/2"C.	(3) 4#300MCM & 1#1/0 GND, 2-1/2"C.			
$\left \begin{array}{c} x \\ x \end{array}\right $	(4) 3#3/0 & 1#1/0 GND, 2"C.	(4) 4#3/0 & 1#1/0 GND, 2"C.	800		
/1000	(1) 611616 & 111116 6112, 2 6.	(1) 11/3/3 & 11/1/3 & 11/2/3			
X	(3) 3#400MCM & 1#2/0 GND, 2-1/2"C.	(3) 4#400MCM & 1#2/0 GND, 3"C.	1000		
(1200) X	(4) 3#350MCM & 1#3/0 GND, 2-1/2"C.	(4) 4#350MCM & 1#3/0 GND, 3"C.	1200		
(1600) X	(5) 3#400MCM & 1#4/O GND, 2-1/2"C.	(5) 4#400MCM & 1#4/O GND, 3"C.	1600		
2000 X	(5) 3#600MCM & 1#250 GND, 3"C.	(5) 4#600MCM & 1#250 GND, 3-1/2"C.	2000		
UNDERGROUND SECONDARY CONDUCTORS - FROM PAD MOUNT XMFR TO MAIN OCPD ONLY					
2500 X	(6) 3#600MCM 4"C PVC.	(6) 4#600MCM 4"C PVC.	2500		
3000 X	(8) 3#500MCM 4"C PVC.	(8) 4#500MCM 4"C PVC.	3000		
3200 X	(8) 3#600MCM 4"C PVC.	(8) 4#600MCM 4"C PVC.	3200		
4000 X	(10) 3#600MCM 4"C PVC.	(10) 4#600MCM 4"C PVC.	4000		
_					

- 1. NFPA-70-2014 TABLES 310-15 (B) (16)
- 2. GROUNDING CONDUCTOR BASED ON NFPA-70-2014 TABLE 250-122
- 3. UTILIZE NFPA-70-2014 CHAPTER 9 TABLES FOR EXACT CONDUIT AND FILL VALUES
- 4. CONDUIT SIZES SHOWN ABOVE ARE BASED ON EMT & PVC-SCH 40 PER NFPA 70-2014 INFORMATIVE ANNEX C. CONDUITS REQUIRING A LARGER PVC-SCH 40 CONDUIT SIZE THAN EMT SIZE IS NOTES ABOVE.
- 5. THHN, THWN-2 INSULATION TYPE USED FOR CALCULATION UNLESS OTHERWISE NOTED.
- 6. FEEDER SIZES ABOVE DO NOT TAKE INTO CONSIDERATION DERATING, TEMPERATURE BEYOND AMBIENT 30°C, OR VOLTAGE DROP.

# BreadLoaf

### **ONE-LINE DIAGRAM NOTES:**

- 1. REFER TO LEGEND AND SYMBOLS DRAWING FOR SYMBOL IDENTIFICATION.
- REFER TO TRANSFORMER SCHEDULE AND FEEDER SIZE SCHEDULE ON THIS DRAWING.
- 3. ALL ITEMS SHOWN AS GREY / THIN LINE TO BE EXISTING TO REMAIN.
- 4. ALL CIRCUIT BREAKERS 1000A OR LARGER TO BE PROVIDED WITH ARC FLASH MITIGATION AND GFI PROTECTION.
- 5. ALL CIRCUIT BREAKERS, DISCONNECT SWITCHES, PANELBOARDS, SWITCHBOARDS, AND ATS SWITCHES SHALL BE FULLY RATED TO THE INDICATED FAULT CURRENT. SERIES RATING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED.
- 6. GROUND SWITCH BOARD PER NEC ART 250, PROVIDE COUNTER POISE WITH #250 KcMIL E.C.G.
- FOR PROJECTS THAT REQUIRE A NEW ELECTRICAL SERVICE, UNLESS OTHERWISE NOTED ALL EXCAVATION, BACKFILL, CONCRETE ENCASEMENT, TRANSFORMER CONCRETE PADS AND BOLLARDS TO BE FURNISHED AND INSTALLED BY OTHERS. ALSO ALL ELECTRICAL UTILITY COMPANY BACKCHARGES FOR NEW UTILITY WORK/UPGRADES AND UTILITY DESIGN/ENGINEERING FEES TO BE BY OTHERS.
- FOR PROJECTS THAT REQUIRE A NEW GENERATOR, UNLESS OTHERWISE NOTED GENERATOR CONCRETE PAD, EXCAVATION, BACKFILL AND FUEL TO BE FURNISHED BY OTHERS. IF GENERATOR IS GAS OR PROPANE, PLUMBING CONTRACTOR TO PROVIDE PROPERLY SIZED GAS LINE AND PRESSURE TO OPERATE GENERATOR. IF GENERATOR IS GROUND MOUNTED, GENERATOR TO BE PROPERLY SPACED FROM PADMOUNT TRANSFORMER(S) PER NFPA 37. (EVERSOURCE REQUIRES 25'FT FOR BOTH GAS & DIESEL, NATIONAL GRID REQUIRES 25'FT FOR GAS AND 10'FT FOR DIESEL.)
- PROVIDE A 2-POLE SPACE IN MAIN ELECTRICAL SERVICE PANEL TO ALLOW FOR INSTALLATION OF A DUAL POLE CIRUCUIT BREAKER FOR FUTURE SOLAR ELECTRIC INSTALLATION. SPACE TO BE LABELED "FOR FUTURE SOLAR ELECTRIC.
- 10. FOR ELECTRICAL EQUIPMENT THAT IS RATED FOR 800A AND LARGER AND IS OVER SIX FEET WIDE ONE DOOR THAT SWINGS TO THE DIRECTION OF EGRESS WITH PANIC HARDWARE IS REQUIRED.
  FOR ELECTRICAL EQUIPMENT THAT IS RATED FOR 1,200A AND LARGER AND IS OVER SIX FEET WIDE REQUIRES TWO DOORS THAT SWING TO THE DIRECTION OF
- 11. ALL LIFE SAFETY CIRCUIT BREAKERS FOR NORMAL AND EMERGENCY POWER SHALL BE SELECTIVELY COORDINATED PER NFPA 70, ARTICLE 700.

EGRESS WITH PANIC HARDWARE.

- 12. ALL PANELBOARDS, SWITCHBOARDS, TRANSFORMERS, ATS SWITCHES, GENERATORS, AND ELECTRICAL EQUIPMENT SHALL BE SIESMIC RATED PER THE MASSACHUSETTS STATE BUILDING CODE.
- 13. ALL ATS SWITCHES SHALL BE RATED TO THE INDICATED AIC RATING AS FOLLOWS: (VERIFICATION SHALL BE PROVIDED BY VENDOR WITH BILL OF MATERIAL)
  - THE "ANY CIRCUIT BREAKER" RATING SHALL BE DOCUMENTED TO

    THE MINIMUM AND BATING NOTED OR

    THE MINIMUM AND BATING NOTED OR
  - THE MINIMUM AIC RATING NOTED OR,
    COORDINATE AND PROVIDE "SPECIFIC CIRCUIT BREAKER"
  - REQUIRED TO OBTAIN MINIMUM AIC RATED NOTED OR,
    PROVIDED CURRENT LIMITING FUSED DISCONNECT SWITCHES AT
    ATS SWITCHES. FUSES NEED TO BE INCLUDED IN THE SELECTIVE

COORDINATION REQUIRED BY NOTE 1 ABOVE...

- 14. ELECTRICAL PANELBOARDS THAT FEED LEGALLY REQUIRED STANDBY SYSTEMS (LRSS) OR LIFE SAFETY SYSTEMS SHALL BE PROVIDED AS FUSED PANELBOARDS WITHOUT CIRCUIT BREAKERS. ALL BRANCH WIRING TO BE POWERED FROM BRANCH FUSED SWITCHES.
- 15. PROVIDE GFPE / GROUND-FAULT PROTECTION OF EQUIPMENT CIRCUIT BREAKERS PER FLOOR PLANS AND PANEL SCHEDULES.
- 16. FURNISH AND INSTALL NAMEPLATES ON ALL ELECTRICAL EQUIPMENT INCLUDING PANELS, JUNCTION BOXES, DISCONNECT SWITCHES, TRANSFORMERS AND STARTERS. NAMEPLATES SHALL INDICATE EQUIPMENT TAG, VOLTAGE CHARACTERISTICS AND SOURCE OF POWER.
- 17. SAFETY DISCONNECT SWITCHES SHALL BE THREE-POLE GENERAL USE RATED FOR 250 VOLT OR LESS AND HEAVY DUTY TYPE RATED FOR OVER 250 VOLT. DISCONNECT SHALL BE MINIMUM NEMA 1 ENCLOSURES (INTERIOR DRY APPLICATIONS) AND NEMA 3R ENCLOSURES (EXTERIOR APPLICATIONS) UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL SWITCHES SHALL BE HORSEPOWER RATED AND SUITABLE FOR USE. PROVIDE WITH SOLID NEUTRAL BLOCK IN DISCONNECT WHERE NEUTRAL CONDUCTOR TERMINATION IS REQUIRED.
- 18. PANELBOARDS SHALL BE CIRCUIT BREAKER TYPE WITH THERMAL MAGNETIC BOLT ON MOLDED CASE CIRCUIT BREAKERS. MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 AMPS SYMMETRICAL AT 208 VOLT AND 14,000 AIC AT 480 VOLT. REFER TO PANEL SCHEDULES FOR EXACT AIC RATINGS OF EQUIPMENT. PANELBOARD COVERS SHALL BE DOOR-IN-DOOR DESIGN. ACCEPTABLE MANUFACTURERS SHALL BE SQUARE D, GE, SIEMENS, AND EATON CUTLER HAMMER.
- 19. PROVIDE DRY TYPE TRANSFORMERS WHICH MEET NEMA NO. ST20-2014, TP-1, LATEST D.O.E. 10CFR 431.192 ENERGY EFFICIENCY STANDARDS, AND UL STANDARDS. TRANSFORMERS SHALL HAVE 220°C., INSULATION SYSTEM RATED FOR CONTINUOUS OPERATION AT RATED KVA. TRANSFORMERS TEMPERATURE RISE SHALL NOT EXCEED 120°C. TRANSFORMERS SHALL HAVE TWO ALUMINUM WINDINGS, CONTINUOUS WOUND CONSTRUCTION. TRANSFORMER PRIMARY SHALL BE PROVIDED WITH (6) 5% TAPS, K13 RATED TRANSFORMERS SHALL HAVE 200 NEUTRALS AND AN ELECTROSTATIC SHIELD WITH NOISE ATTENUATION LOADS OF 120db COMMON MODE AND 30db NORMAL MODE.

# Architects Planners Builders

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### Mechanical Engineer

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### **Electrical Engineer**

Interstate Electrical Services 281 Olcott Drive White River Junction, VT 05001 P 855 500 4372

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Revised

No. Date Description

Newport Community

Center

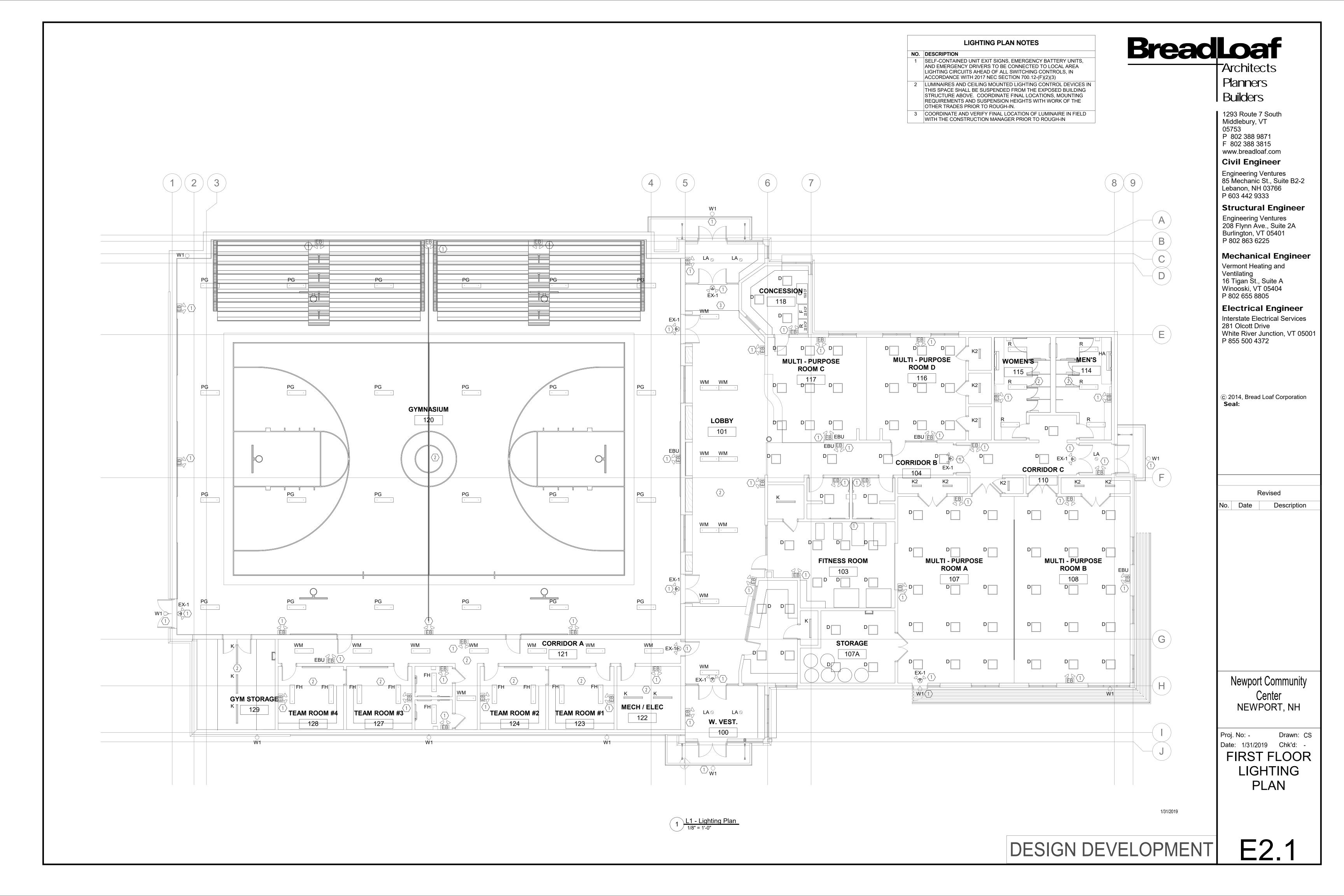
NEWPORT, NH

Proj. No: - Drawn: CS

Date: 1/31/2019 Chk'd: 
ONE LINE

DIAGRAM

1/31/2019



### **BreadLoaf POWER PLAN NOTES** NO. DESCRIPTION 1 PROVIDE GROUND FAULT CIRCUIT INTERUPPTER FOR ELECTRICAL Architects WATER COOLERS AS REQUIRED, USED DEADFRONT GFCI DEVICE INSTALLED IN AN ACCESSIBLE LOCATION, CONNECTED EWC RECEPTACLES ONTHE LOAD SIDE. **Planners** 2 CODE REQUIRED CLEARANCES ARE REQUIRED FOR ELECTRICAL DISTRIBUTION EQUIPMENT, COORDINATE FINAL LOCATION(S) OF Builders PANELS AND EQUIPMENT TO MAINTAIN REQUIRED WORKING CLEARANCES AND DEDICATED SPACE. PROVIDE POWER CONNECTION TO MECHANICAL EQUIPMENT AS 1293 Route 7 South SHOWN. ALL LOW-VOLTAGE AND CONTROL WIRING TO BE FURNISHED AND INSTALLED BY THE M.C., VERIFY LOCATION OF Middlebury, VT MECHANICAL EQUIPMENT IN FIELD WITH THE MECHANICAL P 802 388 9871 4 COORDINATE AND VERIFY FINAL LOCATION AND ELECTRICAL REQUIREMENTS OF OUTLET, DEVICE AND/OR EQUIPMENT IN FIELD F 802 388 3815 WITH THE CONSTRUCTION MANAGER PRIOR TO ROUGH-IN. www.breadloaf.com Civil Engineer Engineering Ventures 85 Mechanic St., Suite B2-2 (1)(2)(3 Lebanon, NH 03766 P 603 442 9333 CONFIRM LOCATION/ Structural Engineer DEVICE TYPE FOR MAXAM TELESCOPIC Engineering Ventures GYM BLEACHERS, POWERED CURTAIN 208 Flynn Ave., Suite 2A TYPICAL AT (2) LOCATIONS Burlington, VT 05401 30" WP, GFI P 802 863 6225 E. VEST. Mechanical Engineer 119 Vermont Heating and 4)( 42" GFI Δ D CONCESSION 16 Tigan St., Suite A Winooski, VT 05404 118 P 802 655 8805 ⊞ GFI Electrical Engineer GFI, FRZ. اللج Interstate Electrical Services 281 Olcott Drive White River Junction, VT 05001 P 855 500 4372 ₩ 22" **MULTI - PURPOSE** MULTI - PURPOSE **STORAGE** GFI ROOM D ROOM C 116B APPROXIMATE LOCATION 116 © 2014, Bread Loaf Corporation OF RETRACTABLE BACKSTOP (HOOP) 117 Seal: ASSEMBLY. COORDINATE LOCATION, 114 CONTROL AND BACKS TOP MOTOR GYMNASIUM CONNECTION WITH G.C. TYPICAL AT ₩P, GFI (6) BACKSTOP LOCATIONS 116A LCD MONITOR, COORDINATE DEVICE MOUNTING HEIGHTS WITH G.C. PRIOR TO **CORRIDOR B** S. VEST. CORRIDOR C ROUGH-IN (MOUNTED HIGH ON WALL) 113 DF-1 EWC SPRINKLER **STORAGE** LOBBY Revised 101 STORAGE No. Date Description MOUNTED HIGH AT SCOREBOARD. COORINATE MOUNTING HEIGHT WITH G.C., DIVIDER CURTAIN SCOREBOARD TYPICAL OF (2). J 4 SCOREBOARD 4 FITNESS ROOM 103 **MULTI - PURPOSE MULTI - PURPOSE** ROOM A WP, GFI⊟ 107 108 RECEPTION/ DIRECTOR G STORAGE **CORRIDOR A** LADDER LAV A Newport Community 125 GYM STORAGE **TEAM ROOM #4** Center TEAM ROOM #1 **TEAM ROOM #3** TEAM ROOM #2 129 LAV B 128 122 123 NEWPORT, NH 127 124 W. VEST. P21A MDP 100 126 Drawn: CS Date: 1/31/2019 Chk'd: -FIRST FLOOR POWER PLAN 1 L1 - Power Plan 1/8" = 1'-0" 1/31/2019 E3.1 DESIGN DEVELOPMENT

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Description

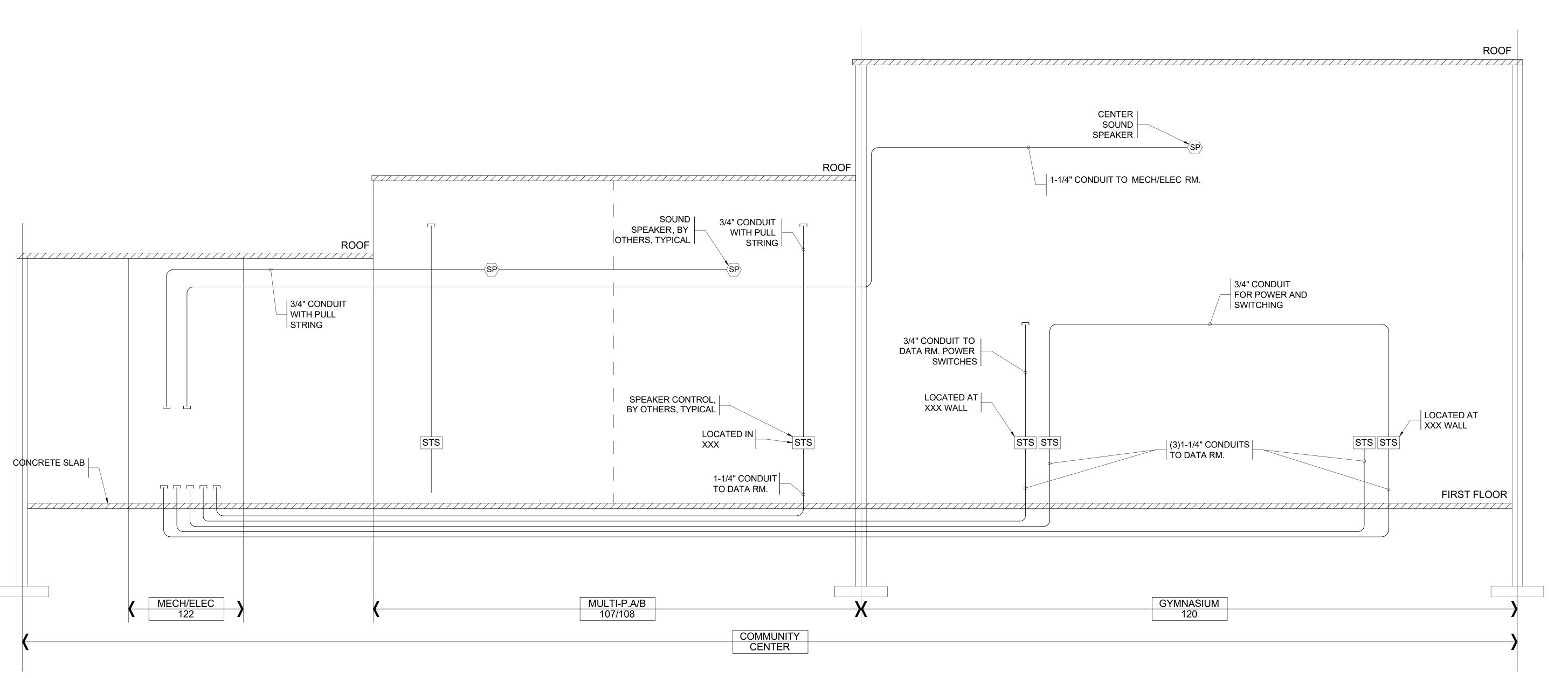
Newport Community Center NEWPORT, NH

Drawn: CS Date: 1/31/2019 Chk'd: -

GYM SOUND SYSTEM RISER DIAGRAM

DESIGN DEVELOPMENT

1/31/2019



Gymnasium Sound System Riser Diagram

### NOTE:

1.) PROVIDE SLEEVES FOR ALL PENETRATIONS OF RATED WALLS AND FLOORS. SLEEVES THROUGH FIRE-RATED WALLS, SHAFTS, FLOOR AND PARTITIONS SHALL BE PACKED FULL LENGTH WITH UL LISTED FILL TO MAINTAIN THE RATING OF SEPARATION. COMPLY WITH NFPA REQUIREMENTS.

### FIRE ALARM LEGEND

MB FIRE ALARM MASTER BOX

FACP FIRE ALARM CONTROL PANEL

FAA FIRE ALARM ANNUNCIATOR PANEL

FATC FIRE ALARM TERMINAL CABINET

FAPS FIRE ALARM POWER SUPPLY

KEY ACCESS BOX

⊢Ɓ EXTERIOR SIGNAL BEACON

FI FIRE ALARM MANUAL PULL STATION

HILE WALL MOUNTED HORN ONLY ("LF" INDICATES LOW FREQUENCY)

H

30 WALL MOUNTED FIRE ALARM HORN/STROBE LIGHT,

LF NUMERAL DENOTES CANDELA RATING

"LF", IF SHOWN INDICATES LOW FREQUENCY

(Ĥ≾30 CEILING MOUNTED FIRE ALARM HORN/STROBE LIGHT,

WALL MOUNTED SPEAKER ONLY

NUMERAL DENOTES CANDELA RATING

SK130 WALL MOUNTED FIRE ALARM SPEAKER/STROBE LIGHT.

NUMERAL DENOTES CANDELA RATING

©≤30 CEILING MOUNTED FIRE ALARM SPEAKER/STROBE LIGHT, NUMERAL DENOTES CANDELA RATING

✓F 30 STROBE LIGHT, NUMERAL DENOTES CANDELA RATING

©30 CEILING MOUNTED STROBE LIGHT, NUMERAL DENOTES CANDELA RATING

(H) HEAT DETECTOR

FJ FIREFIGHTER'S TELEPHONE JACK

TC FIREFIGHTER'S TELEPHONE STORAGE CABINET

(FS) FLOW SWITCH (FURNISHED AND INSTALLED BY OTHERS)

TAMPER SWITCH (FURNISHED AND INSTALLED BY OTHERS)

(PS) PRESSURE SWITCH (FURNISHED AND INSTALLED BY OTHERS)

(S)\_\_\_\_ INDUCT SMOKE DETECTOR (INSTALLED BY OTHERS, WIRED BY EC)

S \_ SMOKE DETECTOR

"C" INDICATES COMBINATION CARBON MONOXIDE
"E" INDICATES ELEVATOR RECALL

OOUNDED DAGE OMOVE DETECT

SOUNDER BASE SMOKE DETECTOR

"C" INDICATES COMBINATION CARBON MONOXIDE
"E" INDICATES ELEVATOR RECALL

© CARBON MONOXIDE DETECTOR

RTS REMOTE TEST STATION WITH INDICATOR LIGHT

RAI REMOTE ALARM INDICATOR

⊢B FIRE ALARM BELL (INSTALLED BY OTHERS, WIRED BY EC)

DH ELECTRO-MAGNETIC DOOR HOLDING DEVICE

SM SYNC MODULE

IM ISOLATION MODULE

FE FIRE EXTINGUISHER MODULE (FIRE EXTINGUISHER BY OTHERS)

MM MONITOR MODULE

CM CONTROL MODULE

RM RELAY MODULE

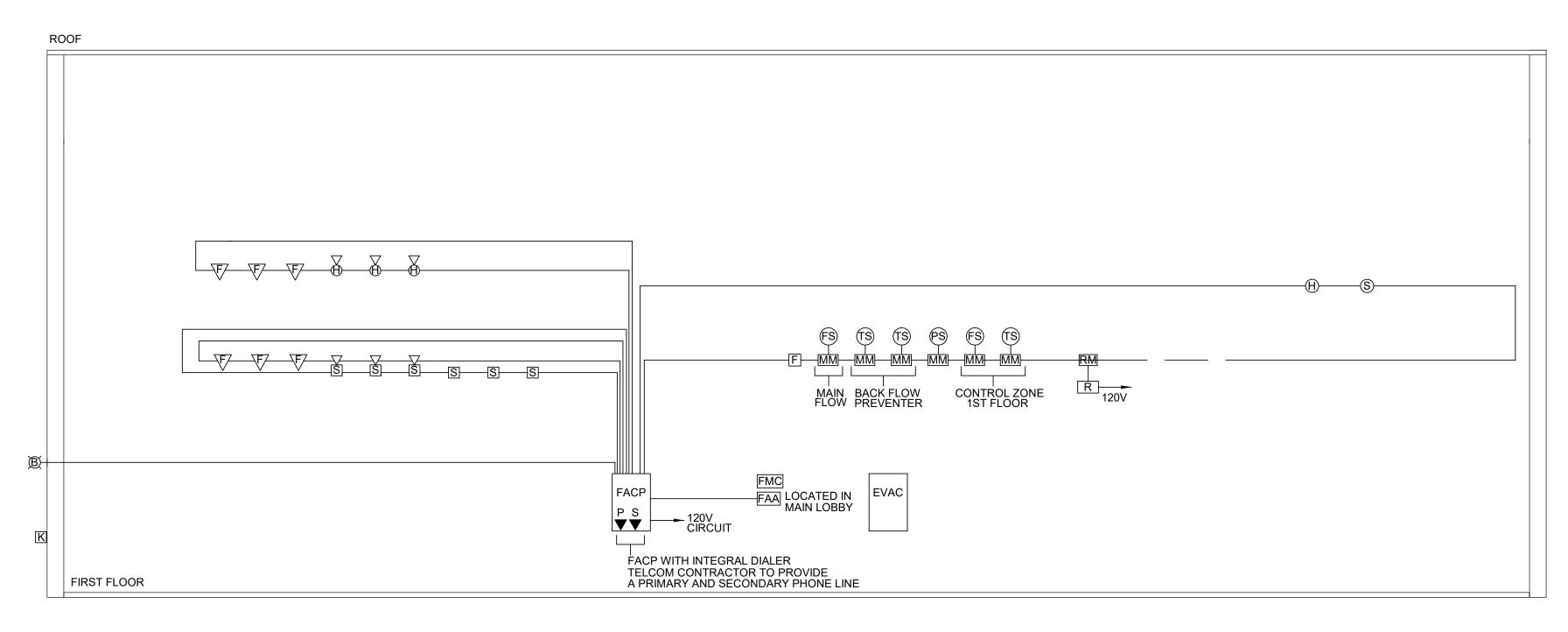
MD MOTORIZED DAMPER BY OTHERS, WIRED BY E.C.

R 120 VOLT NO/NC RELAY

FPB MULTI POLE DEFINITE PURPOSE CONTACTOR FOR FAN POWERED BOX SHUTDOWN. SEE DETAIL ON THIS DRAWING.

FGM FIRE ALARM GRAPHIC MAP

FMC FIRE ALARM MICROPHONE CABINET



### FIRE ALARM RISER DIAGRAM

SCALE: NTS

FIRE ALARM NOTES:

1. REFER TO FIRE ALARM LEGEND FOR SYMBOL IDENTIFICATION.

REFER TO FIRE ALARM RISER DIAGRAM FOR INTENT OF FIRE ALARM SYSTEM.
 PROVIDE COMPLETE ADDRESSABLE FIRE ALARM SYSTEM INCLUDING CONTROL

PANEL WITH DIGITAL COMMUNICATOR AS REQUIRED FOR EMERGENCY FORCES NOTIFICATION. COORDINATE NOTIFICATION REQUIREMENTS WITH LOCAL AHJ.

4. PROVIDE ADJUSTABLE MULTI CANDELA NOTIFICATION DEVICE FROM 15cd TO 110cd, AND OTHER CANDELA RAITING AS REQUIRED FOR A COMPLETE SYSTEM.

VOLTAGE DROP TO BE COORDINATED BY MANUFACTURER.

6. COORDINATE WITH FIRE PROTECTION TRADE FOR DRY/WET SYSTEM. EXACT REQUIREMENTS OF MONITORING AND CONTROL POINTS SUCH AS TAMPER SWITCHES, FLOW SWITCHES, PRESSURE SWITCHES, COMPRESSORS, BELLS, FIRE PUMP CONTROLS AND SUPPRESSION SYSTEMS, PRE ACTION SYSTEMS AND SPRINKLER ZONES PRIOR TO ROUGH IN.

7. PROVIDE RELAY MODULES AS REQUIRED TO INTERFACE WITH SECURITY SYSTEM AND SOUND SYSTEMS AS REQUIRED.

COORDINATE WITH FIRE ALARM EQUIPMENT MANUFACTURER FOR REQUIRED ADDITIONAL POWER SUPPLY PANELS.

COORDINATE LOCATION OF LOCAL EMERGENCY MASTER BOX, RADIO MASTER BOX, DIGITIZER AND/OR DIALER AND ALL ALARM, TROUBLE, AND SUPERVISORY SIGNALS WITH LOCAL FIRE DEPARTMENT PRIOR TO ROUGH IN.

10. COORDINATE LOCATION OF FIRE ALARM CONTROL PANEL, RECORD DRAWING CABINET, ANNUNCIATORS AND ALL OTHER INITIATING AND NOTIFICATION DEVICES INCLUDING BUT NOT LIMITED TO REMOTE TEST STATIONS, REMOTE ALARM INDICATORS, KEY BOX, BEACON, HEAT DETECTORS, CO DETECTORS, GAS LEAK DETECTORS, SMOKE DETECTORS, DUCT SMOKE DETECTORS, AND PULL STATIONS WITH LOCAL FIRE DEPARTMENT PRIOR TO ROUGH IN.

11. ALL FIRE ALARM WIRING REQUIREMENTS SHALL BE IN ACCORDANCE WITH FIRE ALARM EQUIPMENT SUPPLIER.

12. ALL WIRING FOR THE FIRE ALARM SYSTEMS SHALL BE INSTALLED IN A CODE COMPLIANT MANNER.

REFER TO APPROVED SHOP DRAWINGS FOR SEQUENCE OF OPERATIONS.

4. EQUIPMENT SUPPLIER SHALL PROVIDE CALCULATIONS TO SUPPORT THE SIZE OF STANDBY BATTERIES, AMPLIFIER AND POWER SUPPLY. SIZING TO INCLUDE CIRCUIT LOADING, WIRE SIZE, VOLTAGE DROP CHARACTERISTICS AND SPARE CAPACITY.

15. WHERE APPLICABLE, ADDRESSES FOR ALL FIELD DEVICES SHOWN ON FLOOR PLANS SHALL BE PROVIDED. KEY LIST SHALL INCLUDE DEVICE TYPE, ADDRESS LOCATION AND CORRESPONDING LCD MESSAGE TEST.

16. AUDIBLE CIRCUITS TO BE PROVIDED AT 2 CIRCUITS PER FLOOR MINIMUM, WITH A MINIMUM OF 25% SPARE CAPACITY.

17. VISUAL NOTIFICATION APPLIANCE CIRCUITS AND POWER SUPPLIES SHALL OPERATE ALL STROBES SHOWN, PLUS 25% SPARE CAPACITY.

18. AUDIBLE AND VISUAL SIGNALS MAY BE COMBINED ON THE SAME CIRCUITS. CIRCUITS TO BE SIZED ACCORDINGLY WITH 25% SPARE CAPACITY.

19. EQUIPMENT SUPPLIER SHALL PROVIDE THE FOLLOWING:

END-USER TRAINING PROGRAM.SUBMIT COMPLETE DOCUMENTATION TO INCLUDE TYPE, SIZE,

RATING, CATALOG NUMBER, MANUFACTURER NAMES, PHOTOS AND/OR CATALOG DATA SHEETS.

• PROVIDE COMPLETE POINT-TO-POINT WIRING DIAGRAM SHOWING

ALL EQUIPMENT, SIZE, TYPE, AND NUMBER OF ALL CONDUCTORS
AND DEVICES.

• PROVIDE LARGE SCALE DRAWINGS OF FIRE ALARM CONTROL PANEL
AND REMOTE PANELS SHOWING MODULE PLACEMENT AND SPARE

CAPACITY ALLOWANCES.

• PROVIDE WIRE SIZE, VOLTAGE DROP, AND BATTERY CALCULATIONS

VIDE SMOKE DETECTOR WITHIN 10 FEET OF EACH FIRE ALARM CONTROL

PROVIDE SMOKE DETECTOR WITHIN 10 FEET OF EACH FIRE ALARM CONTROL PANEL. FIRE ALARM ANNUNCIATOR, AND NOTIFICATION APPLIANCE BOOSTER PANELS AS REQUIRED.

21. FOR PROJECTS WITH ATRIUMS, LARGE VOLUME SPACES OR HIGH RISES, PROVIDE FIRE ALARM CONNECTIONS TO THE HVAC PROVIDED SMOKE CONTROL SYSTEM.

2. PROVIDE RELAY MODULE AND CONTACTOR FOR FAN POWER BOX SHUTDOWN WHERE INDICATED ON THE FLOOR PLANS, OR WHEN THE FAN POWER BOXES RETURN INTO THE SAME PLENUM WITH A TOTAL COMBINED CFM THAT EXCEEDS 2000 CFM.

REFER TO FIRE ALARM RISER DIAGRAM AND FLOOR PLANS FOR FIRE ALARM DEVICE QUANTITIES AND LOCATIONS. NOT ALL DEVICES ARE SHOWN IN BOTH LOCATIONS.

THE FIRE ALARM SCOPE INDICATED IN THIS SET OF DOCUMENTS, INCLUDING EQUIPMENT AND DEVICES ETC. INDICATE THE DESIGN INTENT OF A FULLY FUNCTIONAL FIRE ALARM SYSTEM AND IS SUBJECT TO COORDINATION WITH THE SELECTED MANUFACTURER AND FIRE PREVENTION AHJ.

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Date: 1/31/2019 Chk'd: MW

FIRE ALARM LEGEND, RISER DIAGRAM

1/31/2019

DESIGN DEVELOPMENT FAO.

