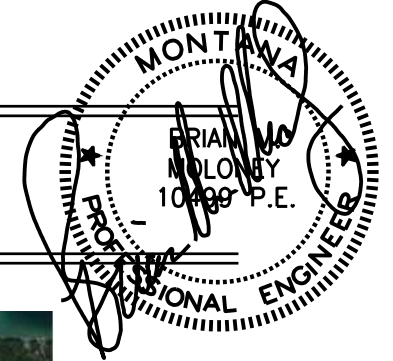


PLANS FOR CONSTRUCTION OF:

# SEKOKINI SPRINGS FISH HATCHERY VENTILATION

WEST GLACIER, MONTANA  
FWP PROJECT # 7153801



## SHEET INDEX

|                                |      |
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**NOTE:**

- CONTRACTOR TO COORDINATE ALL ACTIVITY WITH THE OWNER AND PROVIDE ALL NECESSARY PROTECTIVE COVERS, BARRIERS, ETC. TO PROTECT EXISTING EQUIPMENT AND OWNER'S HATCHERY OPERATIONS.
- CONTRACTOR TO PROVIDE COMPLETE O&M MANUAL IN ELECTRONIC FORMAT AT PROJECT COMPLETION.
- CONTRACTOR TO PROVIDE OWNER TRAINING SESSION AT PROJECT COMPLETION.



VICIINITY MAP

**NOTE:**

ALL WORK SHALL BE IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES & STANDARDS, INCLUDING, BUT NOT LIMITED TO, 2018 IMC, 2018 UPC, 2018 IBC, 2018 IFGC, 2018 IECC. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS, PLAN REVIEWS, AND ALL REQUIRED INSPECTIONS BY THE CODE AUTHORITIES HAVING JURISDICTION.

MONTANA FISH, WILDLIFE AND PARKS  
DESIGN AND CONSTRUCTION

MAILING ADDRESS: PO BOX 200701  
HELENA, MT 59620-0701  
TEL 406.841.4000  
FAX 406.841.4004  
<https://fwp.mt.gov/aboutfwp/design-and-construction>

PHYSICAL ADDRESS: 1522 9th AVENUE  
HELENA, MT 59601

MECHANICAL DESIGN BY:  
MILLENIUM ENGINEERING, INC.

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CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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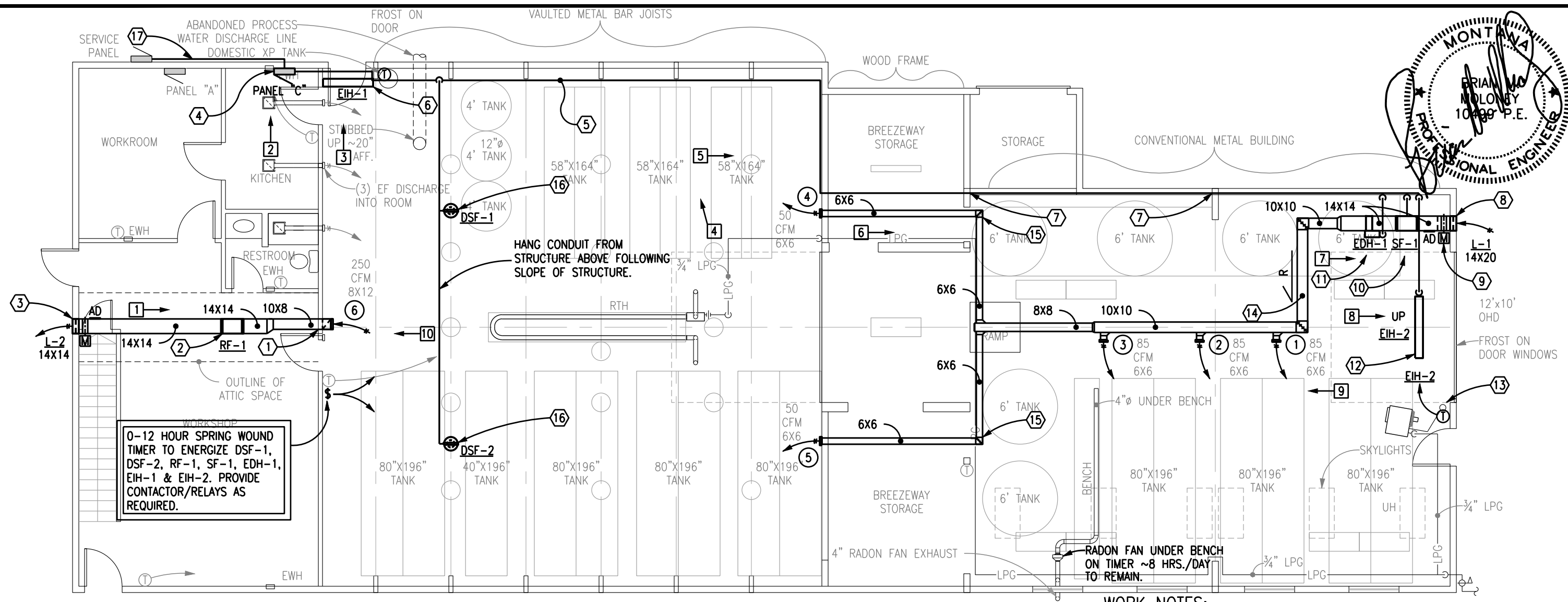
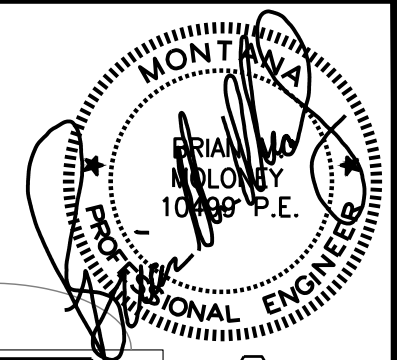
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## Sekokini Springs Fish Hatchery Ventilation

5635 Blakenship Rd, West Glacier, MT

SHEET: T-1 of 1



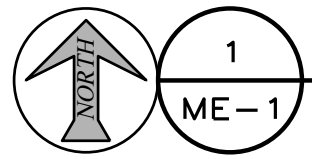
0-12 HOUR SPRING WOUND TIMER TO ENERGIZE DSF-1, DSF-2, RF-1, SF-1, EDH-1, EIH-1 & EIH-2. PROVIDE CONTACTOR/RELAYS AS REQUIRED.

HANG CONDUIT FROM STRUCTURE ABOVE FOLLOWING SLOPE OF STRUCTURE.

**WORK NOTES:**

- ① ROUTE RELIEF DUCT FROM LARGE ROOM FROM ~18" ABOVE FLOOR UP THROUGH WALL INTO ATTIC SPACE. DUCT EXPOSED IN ROOM IS TO BE CONSTRUCTED OF 18 GAUGE SHEET METAL.
- ② FURNISH & INSTALL RELIEF FAN (RF-1). SPAN TWO TRUSS BOTTOM CHORDS WITH P1000 UNISTRUT. SUSPEND RF-1 FROM UNISTRUT WITH (4) 1/2" ALL THREAD & RIS ISOLATORS.
- ③ FURNISH & INSTALL LOUVER IN EXTERIOR WALL, CENTERED ON GABLE. FURNISH & INSTALL MOTORIZED DAMPER.
- ④ FURNISH & INSTALL SURFACE MOUNT PANEL BOARD "C" ON WALL.
- ⑤ RACK NEW CONDUIT ALONG WALL WITH EXISTING CONDUITS.
- ⑥ FURNISH & INSTALL ELECTRIC INFRARED HEATER EIH-1 ON WALL BRACKET ABOVE DOOR. MOUNT T-STAT ~60" AFF NEAR DOOR.
- ⑦ ROUTE NEW CONDUITS BETWEEN WALL & RED IRON VERTICAL.
- ⑧ FURNISH & INSTALL 14X20 WALL LOUVER HIGH ON WALL.
- ⑨ FURNISH & INSTALL MOTORIZED DAMPER & ACTUATOR. TRANSITION DUCT TO 14X14.
- ⑩ FURNISH & INSTALL SUPPLY FAN SF-1. SUSPEND SF-1 FROM (4) 1/2" ALL-THREAD RODS & RIS ISOLATORS SUSPENDED FROM P1000 UNISTRUT BOLTED TO CEILING.
- ⑪ FURNISH & INSTALL ELECTRIC DUCT HEATER (EDH-1) INCLUDING CONTROL BOX.
- ⑫ FURNISH & INSTALL ELECTRIC INFRARED HEATER (EIH-2) SUSPENDED BY CHAIN ABOVE OVERHEAD DOOR TRACK. (MIN. 12"). MOUNT T-STAT ~60" AFF NEAR DOOR.
- ⑬ INSTALL CUTOUT SWITCH ON OVERHEAD DOOR TRACK TO SHUT OFF EIH-2 IF OVERHEAD DOOR IS OPEN MORE THAN 6".
- ⑭ 10X10 DUCT FROM SF-1. RISE UP TO FOLLOW CEILING SLOPE TO RIDGE.
- ⑮ ROUTE 6X6 DUCT INTO BREEZEWAY STORAGE & INTO LARGE ROOM.
- ⑯ HANG DESTRATIFICATION FAN FROM BOTTOM OF STRUCTURE. MAINTAIN CLEARANCE AS PER MANUFACTURER'S INSTRUCTIONS.
- ⑰ CONDUIT FROM SERVICE PANEL TO NEW PANEL "C" SHALL BE ROUTED ON EXTERIOR OF BUILDING.

**MAIN BUILDING**



NEW WORK 1/8" = 1'-0"

**PICTURE NOTES:**

- ① SEE PICTURE 1/ME-4.
- ② SEE PICTURE 2/ME-4.
- ③ SEE PICTURE 3/ME-4.
- ④ SEE PICTURE 1/ME-5.
- ⑤ SEE PICTURE 2/ME-5.
- ⑥ SEE PICTURE 3/ME-5.
- ⑦ SEE PICTURE 1/ME-6.
- ⑧ SEE PICTURE 2/ME-6.
- ⑨ SEE PICTURE 3/ME-6.
- ⑩ SEE PICTURE 1/ME-7.

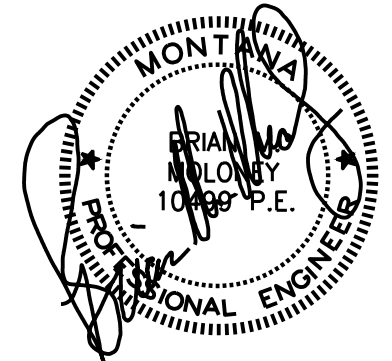
**GRILLE AND REGISTER BALANCE SCHEDULE**

| MARK | TYPE | SIZE | BAL. CFM | MARK | TYPE | SIZE | BAL. CFM | MARK | TYPE | SIZE | BAL. CFM | MARK | TYPE | SIZE | BAL. CFM |
|------|------|------|----------|------|------|------|----------|------|------|------|----------|------|------|------|----------|
| ①    | S-1  | 6X6  | 85       | ③    | S-1  | 6X6  | 85       | ⑤    | S-1  | 6X6  | 50       | ⑦    | NOT  | USED |          |
| ②    | S-1  | 6X6  | 85       | ④    | S-1  | 6X6  | 50       | ⑥    | R-1  | 8X12 | 125      |      |      |      |          |

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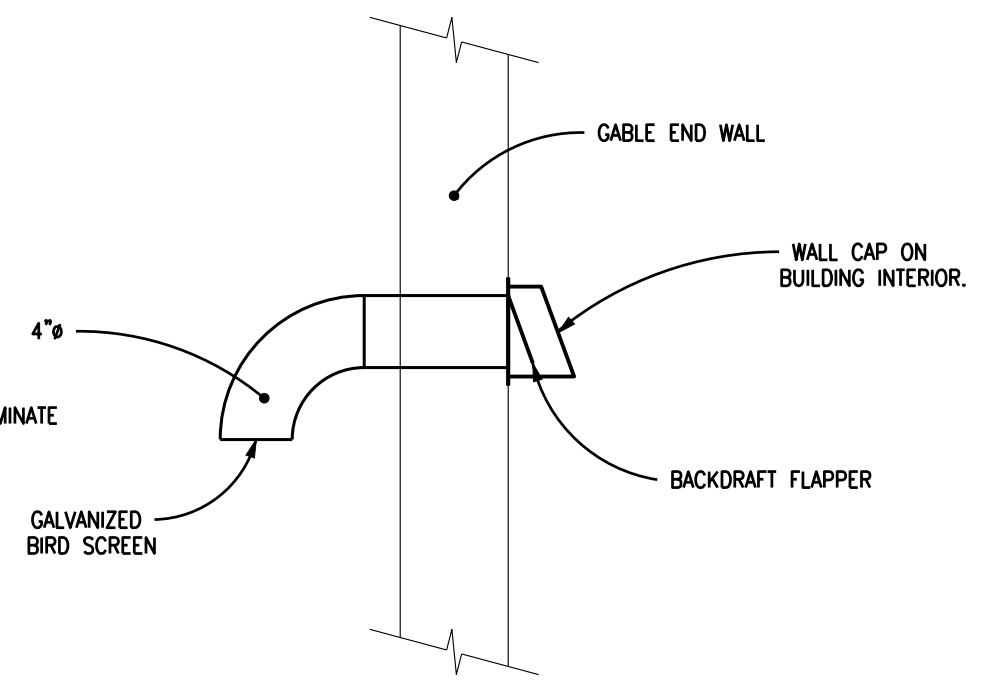
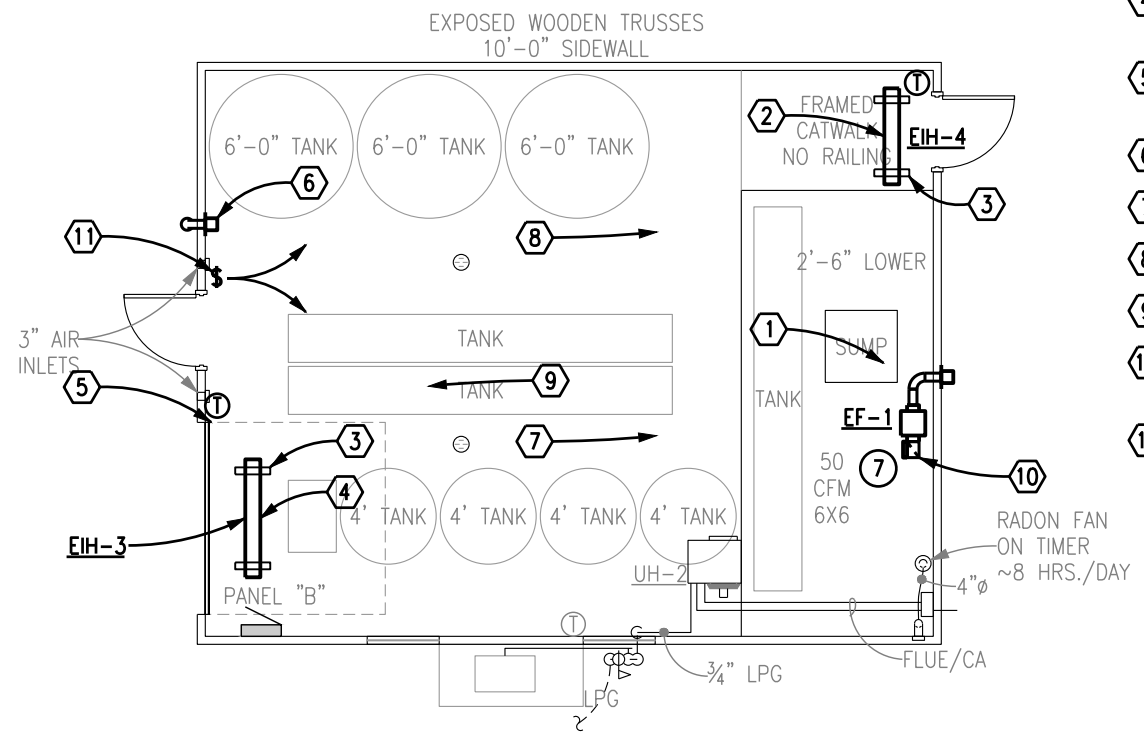
**Sekokini Springs Fish Hatchery Ventilation**  
 5635 Blakenship Rd, West Glacier, MT



**NOTE:**  
ALL WORK ON ISOLATION BUILDING  
SHALL BE DONE UNDER BID ADDITIVE  
ALTERNATE #1.

**WORK NOTES:**

- ① FURNISH & INSTALL EXHAUST FAN EF-1 SUSPENDED FROM ROOF TRUSSES. TERMINATE WITH WALL CAP.
- ② FURNISH & INSTALL ELECTRIC INFRARED HEATER (EIH-4) SUSPENDED FROM CHAIN. FASTENED TO 2X4. MOUNT T-STAT ON WALL NEAR DOOR 60" ABOVE FLOOR.
- ③ (2) 2X4 SPANNING 2 TRUSSES. FASTEN 2X4 TO TOP OF TRUSS BOTTOM CHORD.
- ④ FURNISH & INSTALL ELECTRIC INFRARED HEATER (EIH-3) SUSPENDED FROM CHAIN. FASTENED TO 2X4.
- ⑤ INSTALL CUTOUT SWITCH ON OVERHEAD DOOR TRACK TO SHUT OFF EIH-3 IF OVERHEAD DOOR IS OPEN MORE THAN 6".
- ⑥ FURNISH & INSTALL 4"Ø INTAKE ON GABLE END AS PER 2/ME-2.
- ⑦ SEE PICTURE 2/ME-7.
- ⑧ SEE PICTURE 3/ME-7.
- ⑨ SEE PICTURE 1/ME-8.
- ⑩ 8"X6" EXHAUST DUCT ROUTED DOWN EXPOSED TO ~24" ABOVE FLOOR. TERMINATE WITH 6"X6" EXHAUST GRILLE E-1.
- ⑪ 0-12 HOUR SPRING WOUND TIMER TO ENERGIZE EF-1, EIH-3, EIH-4. PROVIDE CONTACTOR/RELAYS AS REQUIRED.



1 ISOLATION BUILDING  
ME-2 NEW WORK 1/8" = 1'-0"

2 INTAKE DETAIL  
ME-2 NO SCALE

|             |       |              |       |
|-------------|-------|--------------|-------|
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**Sekokini Springs Fish Hatchery Ventilation**  
5635 Blakenship Rd, West Glacier, MT

## ELECTRIC INFRARED HEATER SCHEDULE

| MARK | MFGR     | CATALOG NO.  | TYPE     | LENGTH | BTU/HR | WATTS | VOLTS/PHASE | AMPS | CONTROL | NOTES                       |
|------|----------|--------------|----------|--------|--------|-------|-------------|------|---------|-----------------------------|
| EH-1 | FOSTORIA | OCH-46-240VE | INFRARED | 48"    | 6826   | 2000  | 240/1       | 8.3  | -       | ① MAN DOOR                  |
| EH-2 | FOSTORIA | OCH-57-240VE | INFRARED | 59"    | 10239  | 3000  | 240/1       | 12.5 | -       | ② OVERHEAD DOOR             |
| EH-3 | FOSTORIA | OCH-57-240VE | INFRARED | 59"    | 10239  | 3000  | 240/1       | 12.5 | -       | ② ③ ISOLATION OVERHEAD DOOR |
| EH-4 | FOSTORIA | OCH-46-240VE | INFRARED | 48"    | 6826   | 2000  | 240/1       | 8.3  | -       | ① ③ ISOLATION MAN DOOR      |

- ① WITH WALL MOUNTED THERMOSTAT.
- ② WITH WALL MOUNTED THERMOSTAT. MICRO SWITCH ON GARAGE DOOR TRACK TO STOP HEATER OPERATION IF DOOR OPENED ~6" OR MORE.
- ③ ISOLATION BUILDING EQUIPMENT IS BID ALTERNATE #1.

## FAN SCHEDULE

| MARK  | AREA SERVING       | MANUFACTURER | MODEL       | TYPE    | DRIVE  | CFM | ESP (IN WG) | RPM  | HP     | VOLT/PHASE | BDD | DISCONNECT  | NOTES           |
|-------|--------------------|--------------|-------------|---------|--------|-----|-------------|------|--------|------------|-----|-------------|-----------------|
| SF-1  | HATCHERY           | ACME         | XD100EC     | INLINE  | DIRECT | 350 | .25         | 1850 | ¼      | 115/1      | YES | YES         | ① MERV 8 FILTER |
| RF-1  | HATCHERY           | ACME         | XD100EC     | INLINE  | DIRECT | 250 | .25         | 1850 | ¼      | 115/1      | YES | YES         | ①               |
| EF-1  | ISOLATION BUILDING | ACME         | VQL0100     | CABINET | DIRECT | 50  | .25         | 800  | FRACT. | 115/1      | YES | YES         | ② BID ALT #1    |
| DSF-1 | HATCHERY           | AIRIUS       | A-25-EC-STD | PEAR    | DIRECT | 550 | -           | 1640 | 31.3W  | 115/1      | NO  | YES BY E.C. | ③               |
| DSF-2 | HATCHERY           | AIRIUS       | A-25-EC-STD | PEAR    | DIRECT | 550 | -           | 1640 | 31.3W  | 115/1      | NO  | YES BY E.C. | ③               |

- ① WITH EC MOTOR, MOTOR MOUNTED DIAL, RIS HANGER KIT, CONTROL BY T.C. SEE SPECIFICATIONS.
- ② WITH HANGER KIT, WALL MOUNTED DISCHARGE CAP. CONTROLS BY T.C. ISOLATION BUILDING EQUIPMENT IS BID ALTERNATE #1.
- ③ CONTROLLED BY 0-12 HOUR WALL MOUNTED SPRING WOUND TIMER, GUARD, HANGING KIT, SAFETY CABLE, COMPLETE.

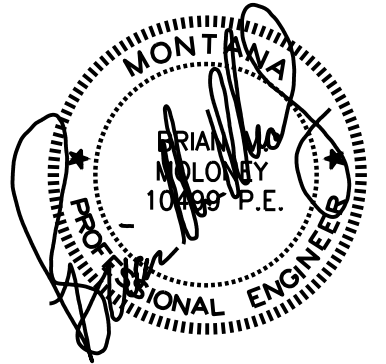
## ELECTRIC DUCT COIL SCHEDULE

| MARK  | MANUFACTURER | MODEL | MOUNTING | DUCT SIZE |        | KW | VOLTS/PHASE | CONTROL       | NOTES                                  |
|-------|--------------|-------|----------|-----------|--------|----|-------------|---------------|--|
|       |              |       |          | WIDTH     | HEIGHT |    |             |               |  |
| EDH-1 | NAILOR       | DHRF  | FLANGE   | 14        | 14     | 9  | 240/1       | DISCHARGE AIR | ① WITH ALL HIGH LIMITS & SAFETY CONTRL |

- ① WITH 4 STAGES HEAT AND STEP CONTROLLER, 24V CONTROL AND DISCHARGE AIR CONTROL, AIR FLOW SWITCH AND FAN INTERLOCK RELAY, CONTROL PANEL ON ACCESSIBLE SIDE.

## GRILLE AND REGISTER SCHEDULE

| MARK | MANUFACTURER | MODEL | TYPE            | MATERIAL | FINISH | ACCESSORIES | BORDER | FASTENING | THROW                  |
|------|--------------|-------|-----------------|----------|--------|-------------|--------|-----------|------------------------|
| S-1  | NAILOR       | 61DH  | LOUVERED SUPPLY | STEEL    | WHITE  | OBD.        | TYPE S | SURFACE   | ADJ. DOUBLE DEFLECTION |
| R-1  | NAILOR       | 6145H | LOUVERED RETURN | STEEL    | WHITE  | OBD.        | TYPE S | SURFACE   | -                      |



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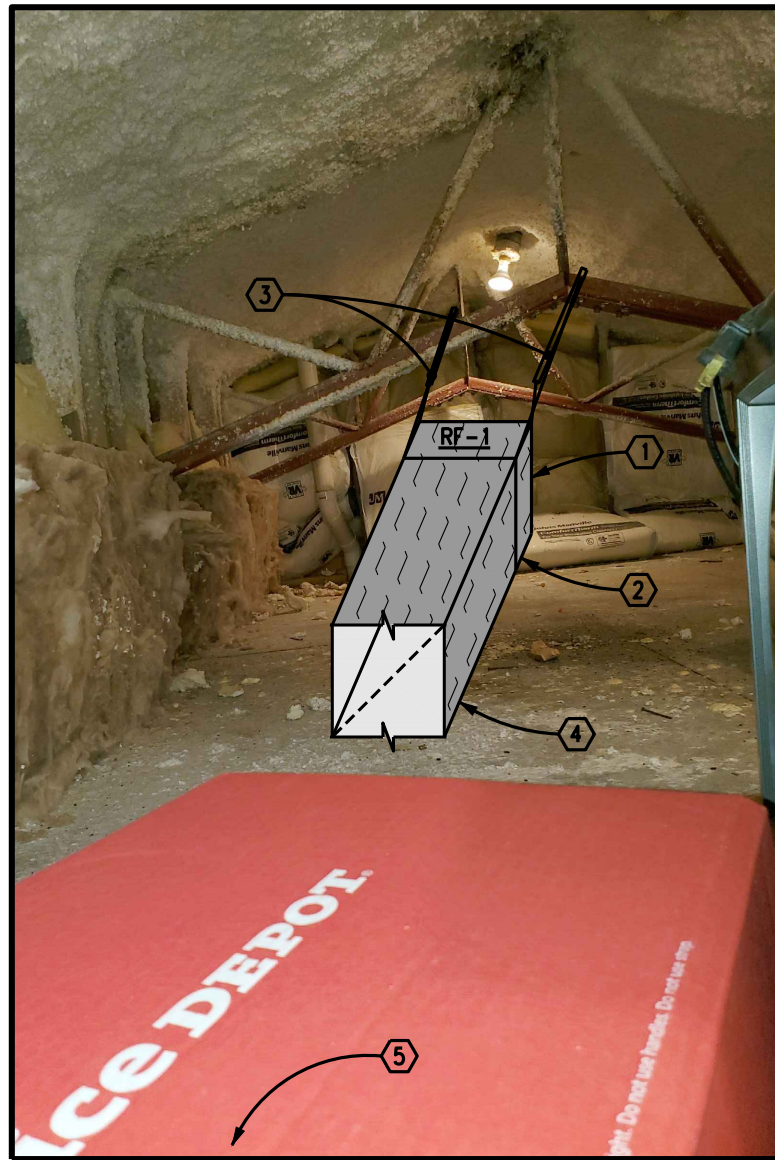
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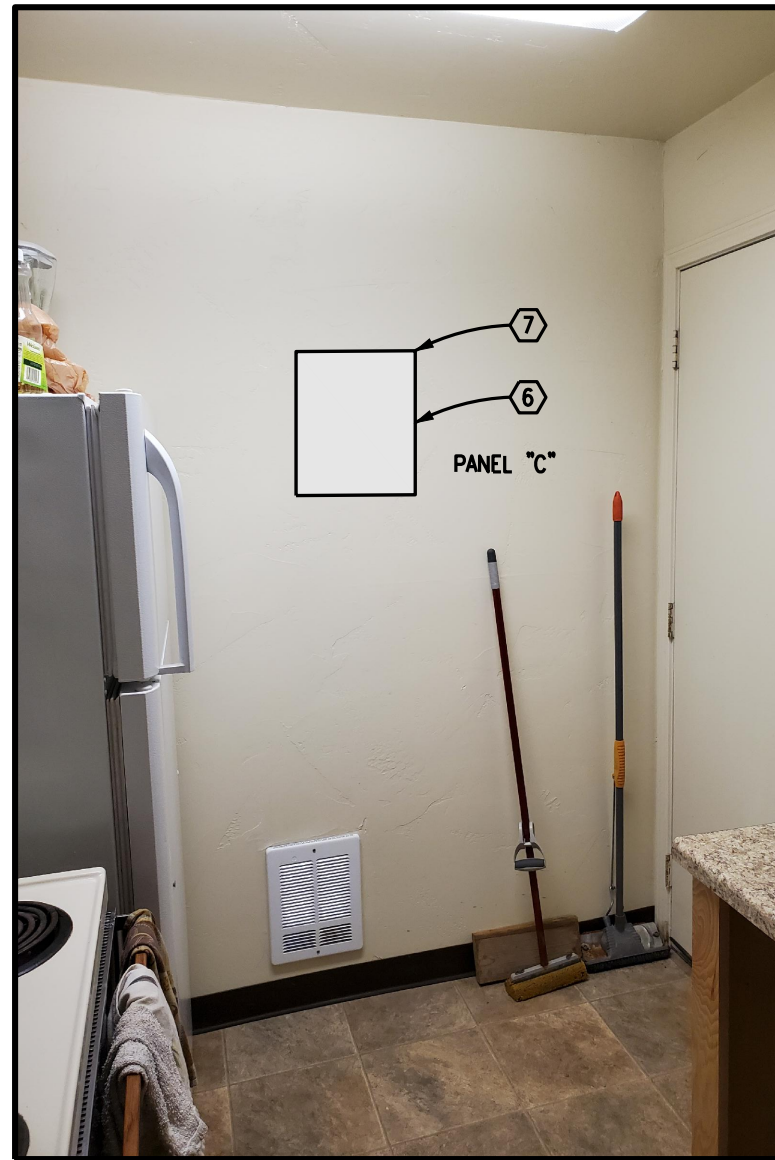
**MONTANA FISH,  
WILDLIFE & PARKS**

**Sekokini Springs Fish Hatchery Ventilation**  
 5635 Blakenship Rd, West Glacier, MT

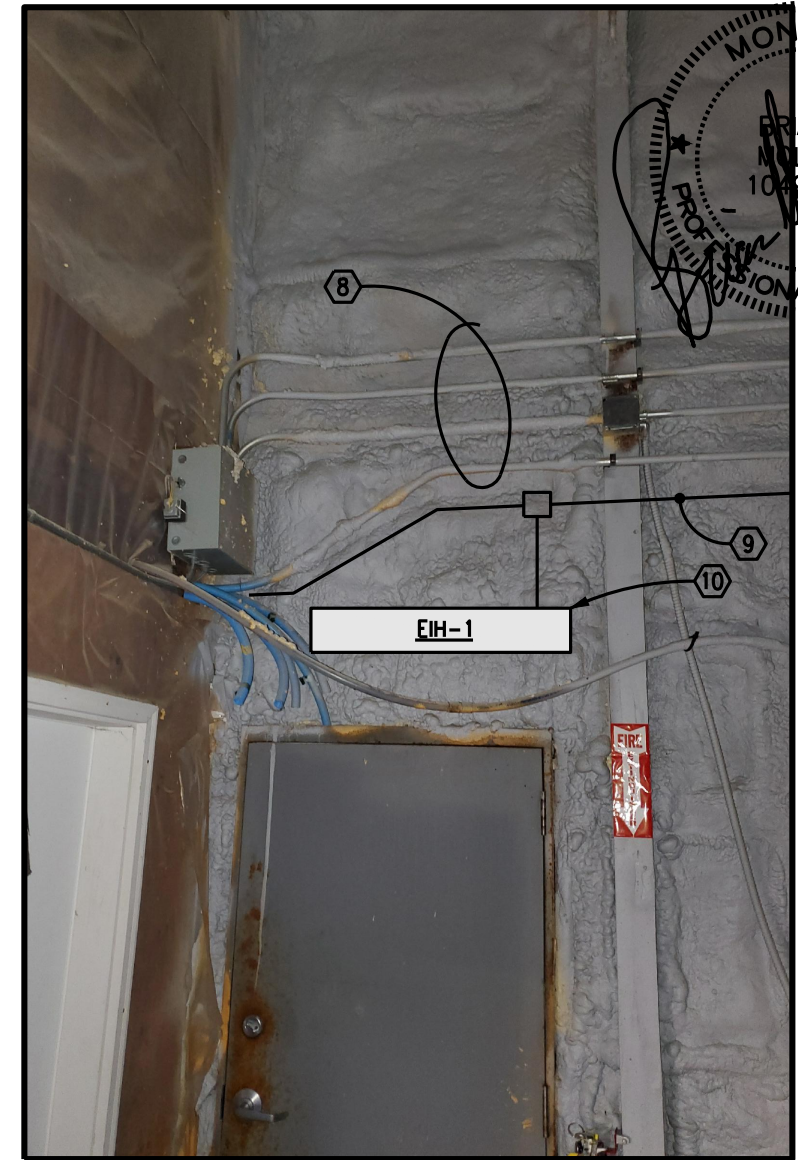
SHEET: **ME-3**  
 of  
**8**



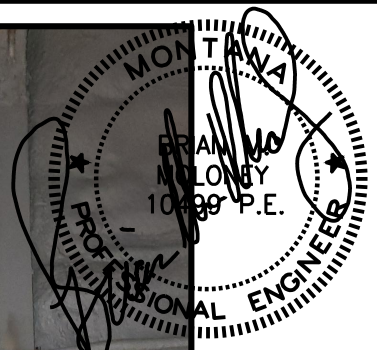
1 ATTIC SPACE  
ME-4 EAST END NO SCALE



2 KITCHEN  
ME-4 NORTH WALL NO SCALE



3 ENTRY DOOR  
ME-4 NORTH WALL NO SCALE



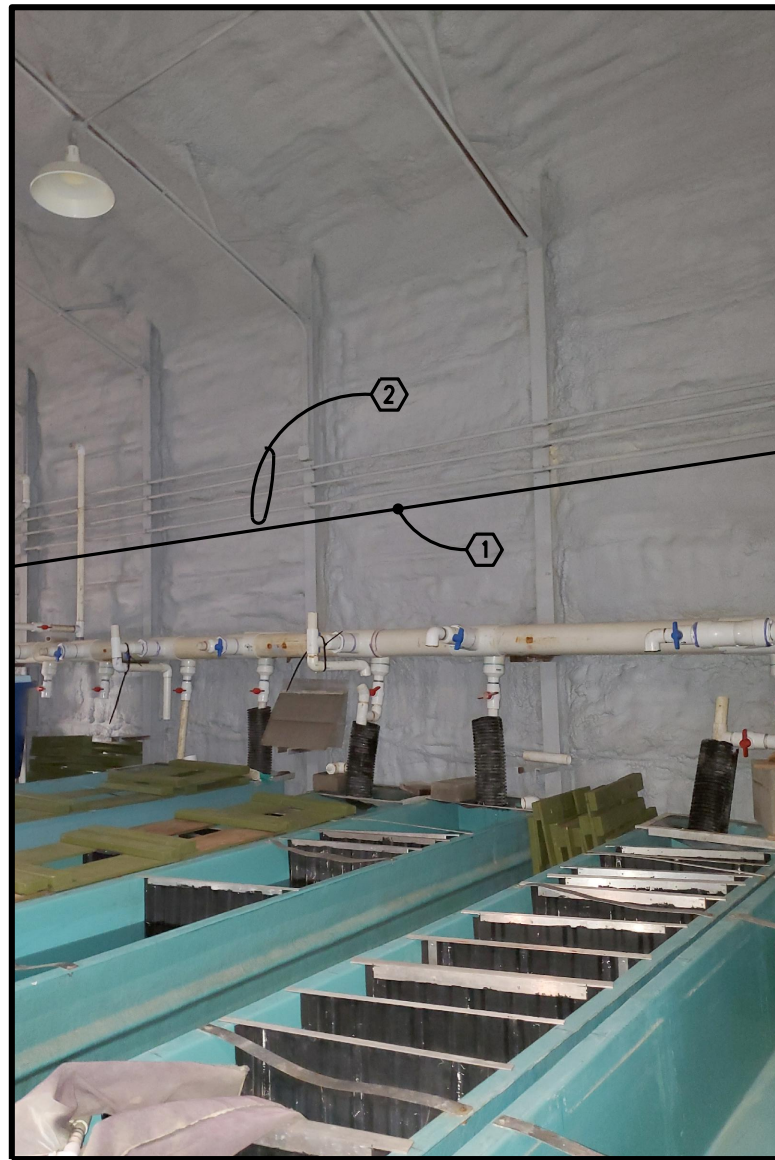
WORK NOTES:

- ① CUT HOLE IN WALL. ROUTE RELIEF DUCT FROM LARGE ROOM THROUGH WALL.
- ② FURNISH & INSTALL RELIEF FAN (RF-1).
- ③ SPAN TWO TRUSS BOTTOM CHORDS WITH P1000 UNISTRUT. SUSPEND RF-1 FROM UNISTRUT WITH (4) 1/2" ALL THREAD & RIS ISOLATORS.
- ④ ROUTE DUCT IN ATTIC SPACE TO EXTERIOR WALL
- ⑤ FURNISH & INSTALL LOUVER IN EXTERIOR WALL, CENTERED ON GABLE. FURNISH & INSTALL MOTORIZED DAMPER.
- ⑥ FURNISH & INSTALL NEW PANEL BOARD "C" ON WALL. CONDUIT FROM SERVICE PANEL SHALL BE ROUTED ON EXTERIOR OF BUILDING.
- ⑦ TOP OF PANEL SHALL BE 6' ABOVE FINISHED FLOOR.
- ⑧ EXISTING CONDUITS SHALL REMAIN IN SERVICE.
- ⑨ ROUTE NEW CONDUIT RACKED TO WALL ALONG WITH EXISTING CONDUITS.
- ⑩ FURNISH & INSTALL NEW JUNCTION BOX. FURNISH & INSTALL ELECTRIC INFRARED HEATER EIH-1 ON WALL BRACKET ABOVE DOOR.

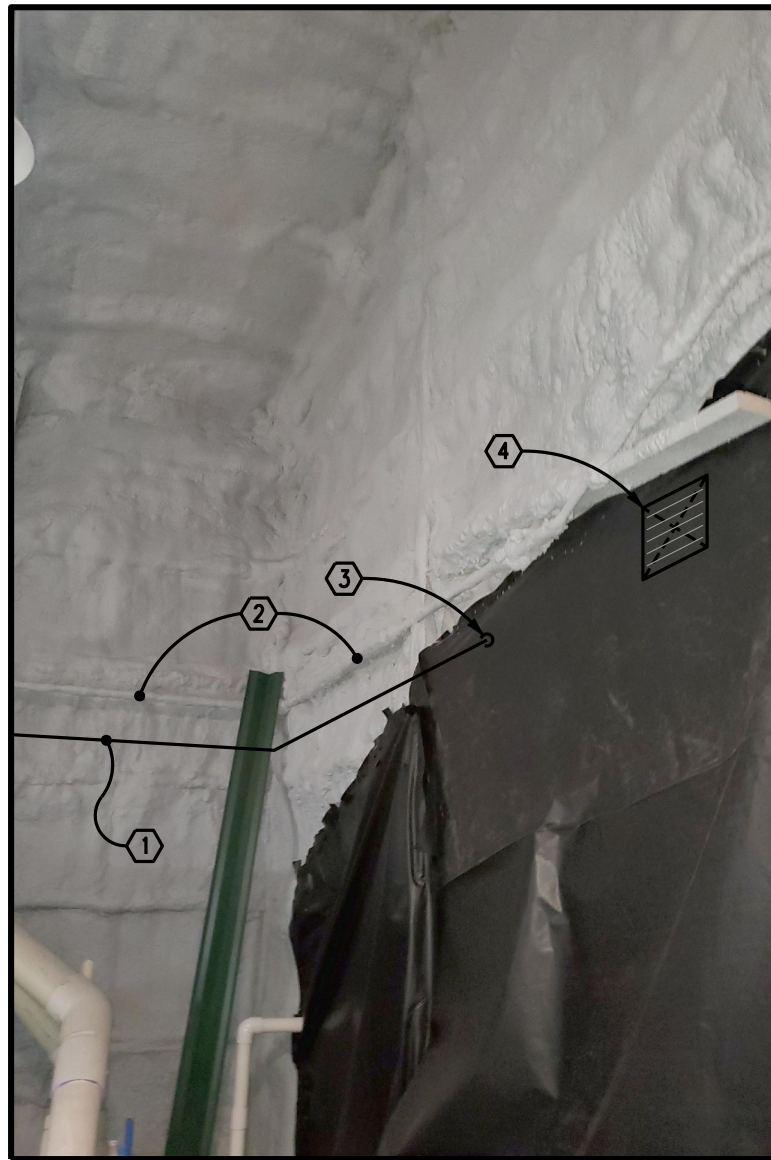
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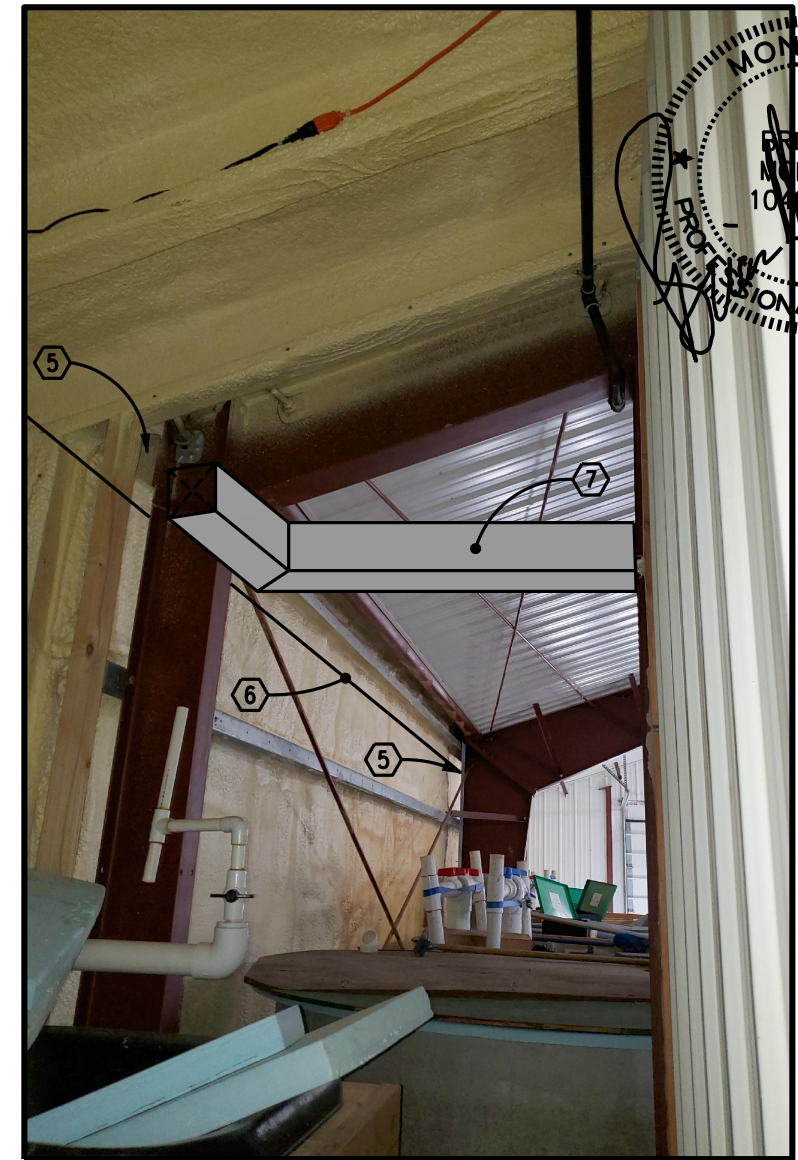
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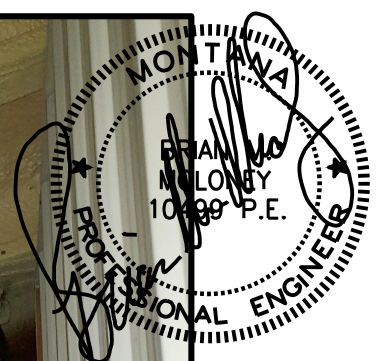
1 NORTH WALL  
ME-5 LARGE ROOM NO SCALE



2 EAST WALL  
ME-5 LARGE ROOM NO SCALE



3 CONDUIT ROUTING  
ME-5 ADDITION NO SCALE



WORK NOTES:

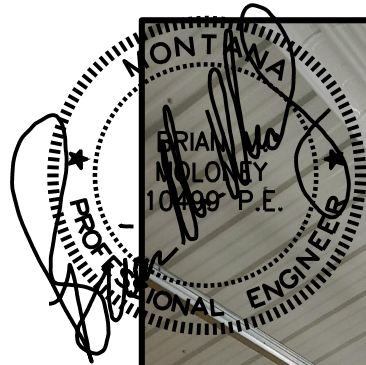
- ① RACK NEW ELECTRICAL CONDUIT ALONG WITH EXISTING CONDUITS. INSTALL JUNCTION BOXES AS REQUIRED.
- ② EXISTING CONDUITS SHALL REMAIN.
- ③ ROUTE NEW CONDUIT INTO BREEZEWAY STORAGE AREA.
- ④ FURNISH & INSTALL NEW 6X6 GRILLE.
- ⑤ ROUTE NEW CONDUITS BETWEEN WALL & RED IRON VERTICAL.
- ⑥ RACK NEW CONDUIT ALONG WALL.
- ⑦ ROUTE NEW SUPPLY DUCT JUST BELOW RED IRON INTO BREEZEWAY STORAGE AREA.

|                                    |                         |                         |
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Sekokini Springs Fish Hatchery Ventilation

5635 Blakenship Rd, West Glacier, MT



1 EAST WALL  
ME-6 ADDITION NO SCALE



2 CEILING STRUCTURE  
ME-6 ADDITION NO SCALE



3 DUCT ROUTING  
ME-6 ADDITION NO SCALE

WORK NOTES:

- ① FURNISH & INSTALL 14X20 WALL LOUVER HIGH ON WALL.
- ② FURNISH & INSTALL MOTORIZED DAMPER & ACTUATOR. TRANSITION DUCT TO 14X14.
- ③ FURNISH & INSTALL SUPPLY FAN SF-1. SUSPEND SF-1 FROM (4) 1/2" ALL-THREAD RODS & RIS ISOLATORS SUSPENDED FROM P1000 UNISTRUT BOLTED TO CEILING.
- ④ FURNISH & INSTALL ELECTRIC DUCT HEATER (EDH-1) INCLUDING CONTROL BOX.
- ⑤ CONTINUE DUCT AS SHOWN ON PLAN.

- ⑥ FURNISH & INSTALL ELECTRIC INFRARED HEATER (EIH-2) SUSPENDED BY CHAIN ABOVE OVERHEAD DOOR TRACK. (MIN. 12")
- ⑦ FURNISH & INSTALL JUNCTION BOXES AS REQUIRED.
- ⑧ SUSPEND EIH-2 FROM BRACING WITH CHAIN.
- ⑨ INSTALL CUTOUT SWITCH ON OVERHEAD DOOR TRACK TO SHUT OFF EIH-2 IF OVERHEAD DOOR IS OPEN MORE THAN 6".

- ⑩ 10X10 DUCT FROM SF-1. RISE UP TO FOLLOW CEILING SLOPE TO RIDGE.
- ⑪ ROUTE DUCT JUST BELOW RED IRON. USE BEAM CLAMPS FOR DUCT SUPPORT.
- ⑫ POSITION SUPPLY GRILLES INLINE WITH SKYLIGHTS (WHERE APPLICABLE). AIR FLOW FROM GRILLE SHALL FOLLOW ROOF SLOPE.
- ⑬ TEE DUCT IN ADDITION, OUTSIDE OF BREEZEWAY.
- ⑭ ROUTE 6X6 DUCT INTO BREEZEWAY STORAGE & INTO LARGE ROOM.

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Sekokini Springs Fish Hatchery Ventilation  
5635 Blakenship Rd, West Glacier, MT



1 WEST WALL  
ME-7 LARGE ROOM NO SCALE



2 EAST WALL  
ME-7 ISOLATION BUILDING NO SCALE



3 EXIT DOOR  
ME-7 ISOLATION BUILDING NO SCALE

MONTANA  
FRANK  
MOLBY  
10,889 P.E.  
PROFESSIONAL ENGINEER

WORK NOTES:

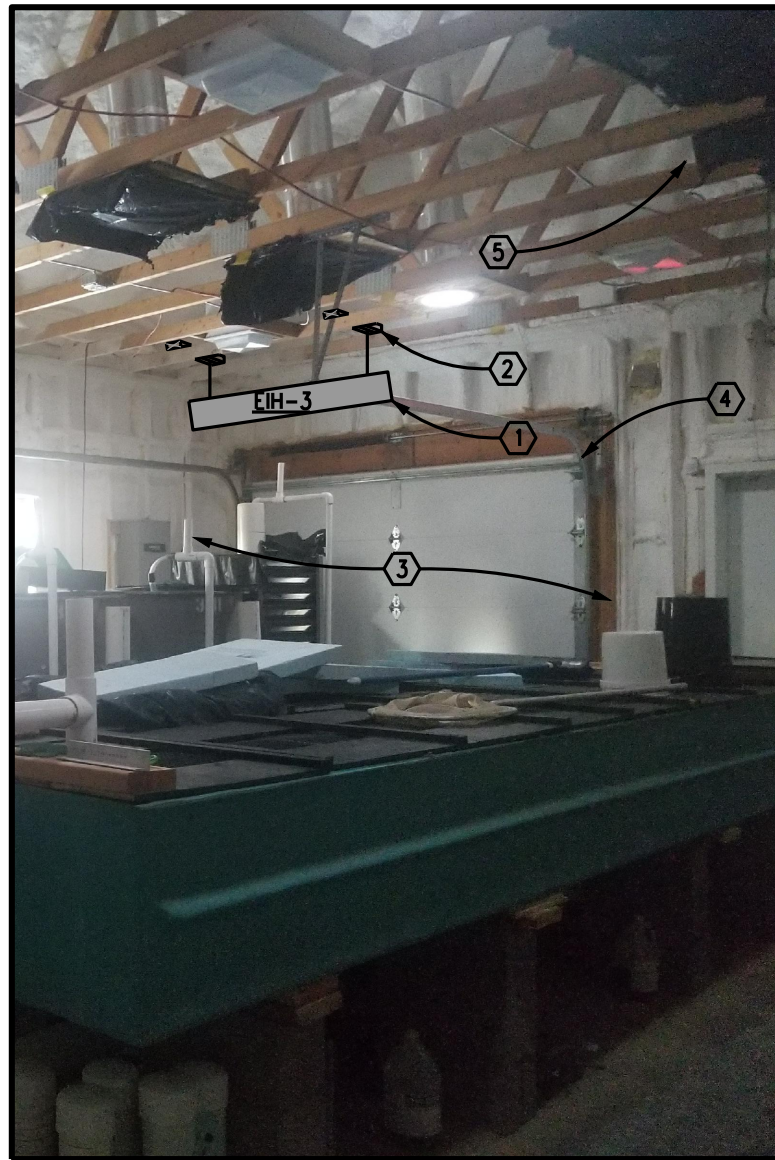
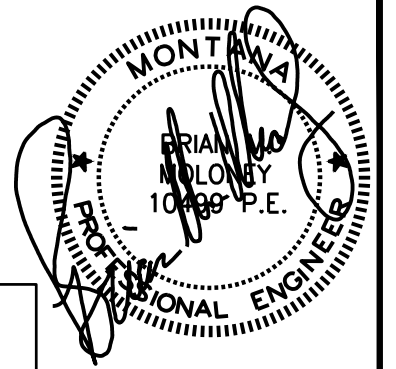
- ① ROUTE RELIEF DUCT THROUGH WALL INTO ATTIC SPACE BEYOND.
- ② ALL WORK IN ISOLATION BUILDING SHALL BE UNDER BID ALTERNATE #1.
- ③ FURNISH & INSTALL WALL CAP ON EXTERIOR OF GABLE WALL.
- ④ FURNISH & INSTALL EXHAUST FAN EF-1 SUSPENDED FROM ROOF TRUSSES.
- ⑤ FURNISH & INSTALL ELECTRIC INFRARED HEATER (EIH-4) SUSPENDED FROM CHAIN. FASTENED TO 2X4.
- ⑥ (2) 2X4 SPANNING 2 TRUSSES. FASTEN 2X4 TO TOP OF TRUSS BOTTOM CHORD.
- ⑦ 10X8 18 GAUGE DUCT WORK DOWN WALL TO ~18" ABOVE FINISH FLOOR.
- ⑧ 8"x6" EXHAUST DUCT ROUTED DOWN EXPOSED TO ~24" ABOVE FLOOR. TERMINATE WITH 6"x6" EXHAUST GRILLE E-1.

|             |       |              |       |
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Sekokini Springs Fish Hatchery Ventilation  
5635 Blakenship Rd, West Glacier, MT





**MECHANICAL SPECIFICATIONS:**

- ALL WORK TO BE IN STRICT CONFORMANCE WITH ALL APPLICABLE CODES.
- ALL DUCTWORK SHALL BE GALVANIZED STEEL, 24 GAUGE MINIMUM FOR RECTANGULAR DUCT, 26 GAUGE FOR ROUND DUCT.
- ALL BUILDING PENETRATIONS TO BE SEALED WITH SILICONE CAULK TO PROVIDE A WEATHER TIGHT INSTALLATION.
- ALL EQUIPMENT & DEVICES TO BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- CONTRACTOR TO PROVIDE SUBMITTALS FOR ALL EQUIPMENT, INCLUDING WIRING DIAGRAMS, AND A COMPLETE O&M MANUAL WITH AS-BUILT DRAWINGS AT PROJECT CLOSEOUT.
- COORDINATE EQUIPMENT CONNECTIONS & CONTROL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

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ME-8

**WEST WALL**

ISOLATION BUILDING NO SCALE

**WORK NOTES:**

- ① FURNISH & INSTALL ELECTRIC INFRARED HEATER (EH-3) SUSPENDED FROM CHAIN. FASTENED TO 2X4.
- ② (2) 2X4 SPANNING 2 TRUSSES. FASTEN 2X4 TO TOP OF TRUSS BOTTOM CHORD.
- ③ ALL WORK IN ISOLATION BUILDING SHALL BE UNDER BID ALTERNATE #1.
- ④ INSTALL CUTOUT SWITCH ON OVERHEAD DOOR TRACK TO SHUT OFF EH-3 IF OVERHEAD DOOR IS OPEN MORE THAN 6".
- ⑤ FURNISH & INSTALL 4"Ø INTAKE ON GABLE END AS PER 2/ME-2.

DRAWN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

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 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



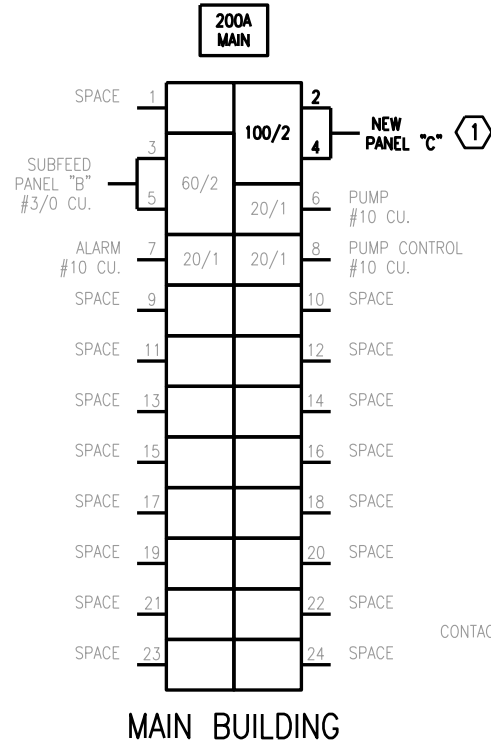
**MONTANA FISH,  
WILDLIFE & PARKS**

**Sekokini Springs Fish Hatchery Ventilation**  
 5635 Blakenship Rd, West Glacier, MT

SHEET: **ME-8**  
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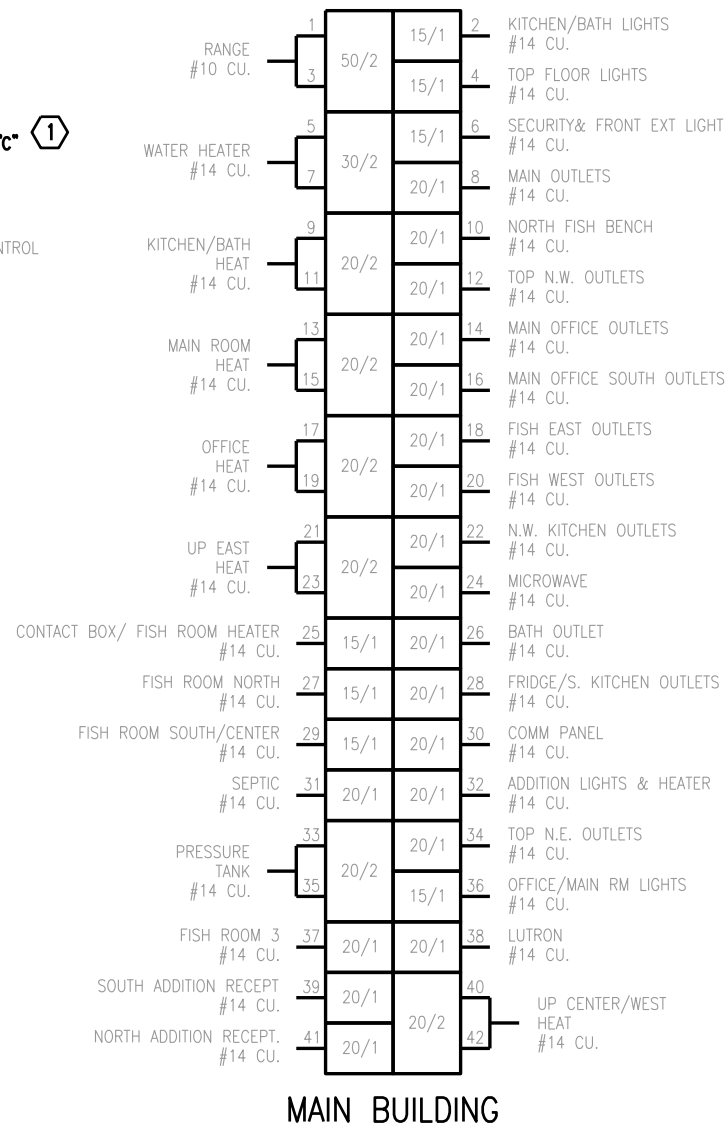
**SERVICE PANEL**

VOLTAGE: 120/240V, 1Ø, 3W  
 MAINS: 225 AMP  
 CUTLER-HAMMER CHP24B200R



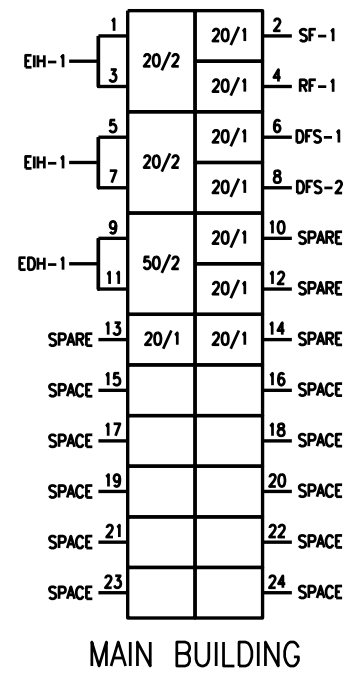
**PANEL "A"**

VOLTAGE: 120/240V, 1Ø, 3W  
 MAINS: 225 AMP  
 CUTLER HAMMER CHP42L22X6



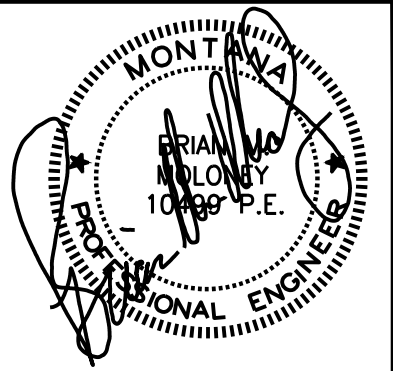
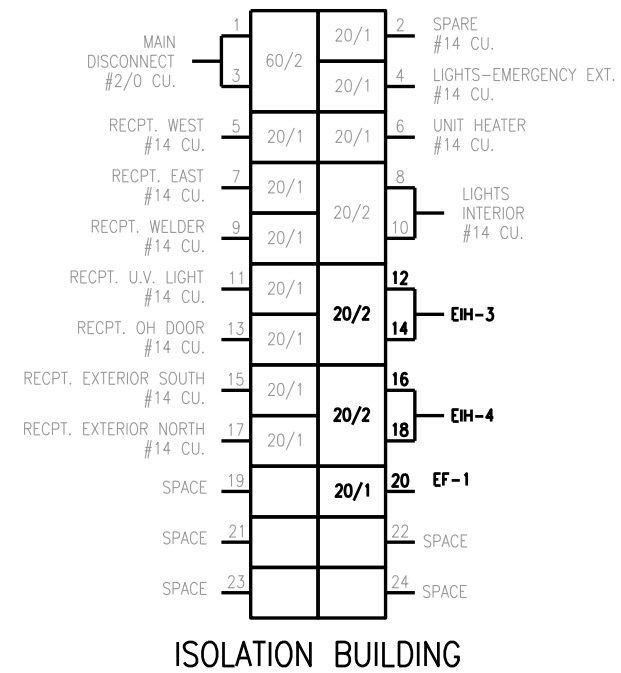
**NEW PANEL "C"** ②③

VOLTAGE: 120/24V, 1Ø, 3W  
 MAINS: 125 AMP



**PANEL "B"** ④

VOLTAGE: 120/24V, 1Ø, 3W  
 MAINS: 125 AMP  
 EATON CHP24L125R



**WORK NOTES:**

- ① FEED PANEL "C" WITH 3-#2 AL W/ #4GND IN 1-1/2" CONDUIT FROM NEW 100A/2P BREAKER IN SERVICE PANEL.
- ② ROUTE 1-1/2" CONDUIT FROM SERVICE PANEL TO PANEL "C" ON EXTERIOR OF BUILDING.
- ③ SURFACE MOUNT PANEL "C" ON WALL IN KITCHEN. ROUTE BRANCH CIRCUIT CONDUITS FROM PANEL "C" EXPOSED IN A NEAT MANNER IN KITCHEN.
- ④ ALL WORK IN ISOLATION BUILDING IS TO BE A PART OF ADDITIVE BID ALTERNATE #1.

**ELECTRICAL SPECIFICATIONS:**

- ALL WIRING TO BE COPPER, THHN OR THWN.
- ALL ELECTRICAL TO BE IN STRICT CONFORMANCE WITH NEC.
- CONTRACTOR TO OBTAIN ALL PERMITS & SECURE PROPER INSPECTIONS.
- ALL WIRING TO BE IN METALLIC RACEWAY, EMT, AND ALL FLEXIBLE CONDUIT TO BE SEAL TIGHT FLEX CONDUIT.
- FURNISH & INSTALL RECEPTACLES AND/OR DISCONNECTS FOR ALL DEVICES.
- SPRING WOUND TIMERS ARE TO ACTIVATE ENTIRE SYSTEM, FURNISH & INSTALL ALL RELAYS, CONTACTORS AND OTHER DEVICES, PROVIDE COMPLETE WIRING DIAGRAM AND O&M MANUALS FOR ALL EQUIPMENT & DEVICES.
- SEAL ALL BUILDING PENETRATIONS WITH SILICONE CAULK FOR A WEATHER TIGHT INSTALLATION.

DRAWN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
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SHEET: **E-1**  
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