GENERAL STRUCTURAL NOTES:

DESIGN LOADS:

1. **GROUND SNOW LOAD, Pg = 46 PSF (CITY OF BOZEMAN MIN.)**
2. **2 PLY 2X6 SILL PLATES IN CONTACT WITH CONCRETE OR MASONRY = PRESSURE TREATED HEM FIR, STUD GRADE.**
3. **TWO ROWS OF 10d NAILS @ 16" O.C. EA. SIDE, ROWS SPACED 2 1/2" APART, STAGGERED 8" VERT.**
4. **SNOW EXPOSURE FACTOR, Ce = 1.0 (BASED ON EXPOSURE CATEGORY C)**
5. **SOIL SITE CLASS = D**
6. **SNOW IMPORTANCE FACTOR, Is = 1.0**
7. **2x FRAMING LUMBER (NOT INCLUDING WALL STUDS AND PLATES) = DOUGLAS FIR**
8. **MAPPED ACCELERATION PARAMETER: SS = 0.692, S1 = 0.217**
9. **BEARING/SHEAR WALL STUDS = DOUGLAS FIR**
10. **RISK CATEGORY = II**
11. **DESIGN BASE SHEAR: 0.65 KIPS**

DESIGN LOADS INDICATED ARE FOR BUILDING AND OTHER STRUCTURES AS PER 2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.

EARTHWORK:

1. **ENGINEER SHALL REVIEW SHOP DRAWINGS ONLY FOR THE CONFORMANCE WITH THE DESIGN CONCEPT OF THE CONTRACT DOCUMENTS.**
2. **THE CONTRACTOR SHALL CHECK AND COORDINATE WITH THE OWNER FOR BLOCKOUTS, CONDUIT, PIPE SIZES AND AIR DUCTS.**
3. **THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ALL AIR DUCT AND PIPING CONNECTIONS TO STRUCTURAL MEMBERS.**
4. **THE CONTRACTOR SHALL NOT ALTER OR DESTROY ANY PRE-MADE SHOP DRAWINGS, SHEET METAL, OR WELDING ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS.**

DESIGN CODES AND STANDARDS:

1. **2018 INTERNATIONAL BUILDING CODE (IBC), 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)**
2. **ASCE 7**
3. **2018 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION**

WIND LOADS:

1. **WIND EXPOSURE = C**
2. **BASIC SEISMIC FORCE COMPONENT, F = 0.32**
3. **1ST GUST = 105 MPH**
4. **SECOND GUST = 115 MPH**

MATERIALS:

1. **#5 BAR OR SMALLER -----1-1/2" COLUMNS ------ 1-1/2"**
2. **#6 BAR OR LARGER ---------2" WALLS --------- 1"**
3. **REINFORCEMENT LAPS, UNLESS OTHERWISE NOTED, SHALL BE AS FOLLOWS:**
4. **ALL BENDS, UNLESS OTHERWISE SHOWN, SHALL BE A 90 DEGREE STANDARD HOOK AS DEFINED IN THE LATEST EDITION OF ACI 318.**

CAST-IN-PLACE CONCRETE:

1. **CONCRETE C-17B PLACEMENT AND COMPACTING:**
2. **CONCRETE STABILIZATION:**
3. **CONCRETE FINISHING:**

CAST-IN-PLACE REINFORCED CONCRETE:

1. **REINFORCEMENT LAP LAYOUTS:**
2. **ALL CONCRETE REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT FOR REINFORCING BARS OVER 3/4" IN DIAMETER WHICH SHALL CONFORM TO ASTM A706, GR. 60.**
3. **REINFORCEMENT PLACEMENT MUST BE SEEN TO ENSURE PROPER CONSOLIDATION OF CONCRETE.**
4. **STUMP, SLAB, WALL, AND FOUNDATION CORNER AND WALL INTERSECTIONS, MASONRY WALLS, AND FOUNDATION CORNERS AND WALL INTERSECTIONS, CONCRETE IS CAST IN THE MEMBER BELOW THE BAR, IN ANY SINGLE POUR.**
5. **CONCRETE IS CAST IN THE MEMBER BELOW THE BAR, IN ANY SINGLE POUR.**
6. **HORIZONTAL WALL BARS ARE CONSIDERED TOP BARS.**
7. **UNLESS NOTED OTHERWISE, PROVIDE 3/4" DIA. x 7" EMBED ANCHOR BOLTS AT 4' O.C.**
8. **DOWELS SHALL BE THE LENGTH INDICATED. DOWELS SHALL BE WIRED IN POSITION PRIOR TO POURING CONCRETE.**
9. **ALL FASTENING SHALL BE IN ACCORDANCE WITH 2012 IBC TABLE NO. 2304.9.1 UNLESS THE PLANS INDICATE A HEAVIER NAILING.**

ROOF, FLOOR, AND SHEAR WALL SHEATHING:

1. **ROOF, FLOOR, AND SHEAR WALL SHEATHING MUST BE FRAMED WITH STABILIZATION planning TO ENSURE PROPER SHEATHING INSTALLATION.**

WOOD CONNECTIONS:

1. **STYRE CONNECTION PLATE MATERIAL CONFORMS TO ASTM STANDARDS. WOOD IS CONFORM TO THIS D.**
2. **CONNECTION HARDWARE MUST BE OF DURABILITY TYPE INDICATED, OR APPROVED EQUAL. PROVIDE ASTM D 1601 CONSTRUCTIONSTUDS AT THE LOCATION OF HANGER BOLT HOLES. PROVIDE 1/8" THICK WASHERS TO BE BETWEEN HANGER BOLT HOLES AND WALL OR FRAME. PROVIDE WASHERS TO BE BETWEEN ALL ANCHOR BOLTS AND WALL OR FRAME. PROVIDE WASHERS TO BE BETWEEN ALL ANCHOR BOLTS AND WALL OR FRAME.**
3. **WHERE MULTIPLE FRAME MEMBERS ARE PROVIDED, PROVIDE WASHERS OF SIMILAR TYPE AND SIZE TO MATCH THE YIELD STRENGTH OF THE FRAME MEMBER. WASHERS SHALL BE OF SIMILAR TYPE AND SIZE TO MATCH THE YIELD STRENGTH OF THE FRAME MEMBER.**
4. **STUDS AND WP MOLDING SHALL CONFORM TO ASTM STANDARDS.**
5. **BOLT HOLES IN WOOD MEMBERS SHALL BE FULLY EMBEDDED.**
6. **BOLT HOLES MUST BE OF A 1/16" LARGER THAN THE BOLT DIAMETER.**

CONCRETE:

1. **REINFORCEMENT STEEL TO BE EPOXY BONDED TO THE STRUCTURAL MEMBERS.**
2. **FASTENERS TO BE EPOXY BONDED TO THE STRUCTURAL MEMBERS.**
3. **FASTENERS TO BE EPOXY BONDED TO THE STRUCTURAL MEMBERS.**
4. **STAINLESS STEEL FASTENERS TO BE EPOXY BONDED TO THE STRUCTURAL MEMBERS.**

WATERPROOFING:

1. **WATERPROOFING MEMBERS MUST BE COVERED BY A MINIMUM 6" THICK BOND FABRIC ON ALL SIDES.**
2. **WATERPROOFING MEMBERS MUST BE COVERED BY A MINIMUM 6" THICK BOND FABRIC ON ALL SIDES.**
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ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR SPECIFICATIONS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED.

THE SYMBOLS ON THIS SHEET COMPRISE A STANDARD LIST; NOT ALL SYMBOLS APPEAR ON THIS PROJECT.

PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT.

CALCULATED BY THE CONTRACTOR FOR CIRCUITS EXTENDING BEYOND 325 LINEAR FEET.  IN ALL CASES WHERE WIRE SIZES INCREASE, THE PARTICULAR CONDUCTOR IS NOT MARKED, OR THE TERMINAL IS MARKED FOR 60 DEGREE C CONDUCTORS, IT IS THE RESPONSIBILITY OF SEPARATION. PROVIDE A UL LISTED THROUGH RESISTANCE RATED WALLS. WHERE THIS IS NOT POSSIBLE INSTALL UL LISTED PUTTY PADS ON ALL OUTLET BOXES NOT MEETING THE 24" WORKMANSHIP IN ELECTRICAL CONTRACTING. THIS PUBLICATION IS AVAILABLE FROM NECA BY TELEPHONE AT 301-3110 OR ON THE INTERNET AT WWW.NECA.ORG.

THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL SCHEDULES ARE MET.

THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH ALL THE WORK REQUIRED TO COMPLETE THE PROJECT IN ADDITION TO PRIOR TO BID CONTRACTOR SHALL VISIT THE SITE.  NOT ALL WORK REQUIRED TO COMPLETE THE PROJECT IS SHOWN ON THE DRAWINGS.

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF THE COMPLETE PROJECT IN ALL ASPECTS FROM THE SITE TO THE COMPLETED INSTALLATION.

ELECTRICAL ONE-LINE LEGEND

AUTOMATIC TRANSFER SWITCH

SURGE PROTECTOR (TVSS)

DISCONNECT SWITCH ("XXAS" = SWITCH AMP RATING)

PUSHBUTON (MOUNT AT +48", UNO)

AUTOMATIC POWER TAKE OFF ("APT"")

THEollowing describes the manner in which the Contracting Firm should read the Diagarams and Plan Sheets.

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GENERAL ELECTRICAL NOTES

A. It is absolutely necessary for all trades involved to coordinate
    locations of ducts, conduits, diffusers, boxes, and other items
    throughout this project before final placement of materials.

B. The electrical contractor is responsible for all cutting of floors,
    walls, ceilings, and roofs to perform the required work depicted in
    these documents. The contractor is responsible for all patching of holes
    to the satisfaction of the architect/engineer.

KEY NOTES:

1. See one line on sheet E0.0 for further instructions.
2. See sheet E0.0 for enlarged electrical plan for new building.
3. Existing overhead power pole to remain. Remove existing
   transformer and replace with new transformer. Reconnect
   existing secondary wire to new transformer as required. See
   details on sheet E0.2.

1" = 1' - 0"
GENERAL ELECTRICAL NOTES
A. IT IS ABSOLUTELY NECESSARY FOR ALL TRADES INVOLVED TO COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF DUCTS, CONDUITS, DIFFUSERS, BOXES, AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS.

B. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING OF FLOORS, WALLS, CEILINGS, AND ROOFS TO PERFORM THE REQUIRED WORK DEPICTED IN THESE DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING OF HOLES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.

KEY NOTES:
1. PROVIDE 120V EXTERIOR PHOTOCELL (INTERMATIC EK4436SM, OR EQUAL) FOR AUTOMATIC ON/OFF CONTROL OF E1 LUMINAIRE. INSTALL AND WIRE PER MANUFACTURER REQUIREMENTS.

NOTES:
GENERAL NOTE:
- PROVIDE UNIT COMPLETE WITH INTEGRAL THERMOSTAT, FACTORY MOUNTED DISCONNECT, SURFACE MOUNTING FRAME, AND ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

TOTAL EST. DEMAND: 9 A
TOTAL CONN.: 9 A

TOTAL EST. DEMAND: 2262 VA
TOTAL CONN. LOAD: 2253 VA

Branch Panel: P1

LUMINAIRE SCHEDULE

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ELECTRICAL DATA

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TOTAL AMPs: 12 A
TOTAL LOAD: 1470 VA

Load Classification Connected Load Demand Factor Estimated Demand Panel Totals

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LEGEND:

- Total Est. Demand: 9 A
- Total Conn.: 9 A
- Receptacle 720 VA 100.00% 720 VA
- Lighting 107 VA 125.00% 133 VA
- HVAC 1500 VA 100.00% 1500 VA

ELECTRICAL BUILDING PLAN

1. PROVIDE SURGE PROTECTION DEVICE.
GENERAL NOTES
1. NEPTUNE MACH 10 WATER METER PROVIDED BY THE CITY.
2. 8" SERVICE LINE STUBBED INTO STRUCTURE FOR FUTURE METER INSTALLATION.
3. 2" METER Run WILL BE REMOVED WHEN 8" METER RUN IS INSTALLED.
4. INSTALL BLIND FLANGE ON 8" RISERS THROUGH FLOOR, 8" WATER SERVICE EQUIPMENT TO BE INSTALLED AS FUTURE IMPROVEMENTS.
5. FUTURE 8" COMPONENTS TO BE MODIFIED TO MEET FUTURE CITY OF BOZEMAN STANDARDS AS REQUIRED.

1. METER HOUSE BUILDING PLAN VIEW

2. METER HOUSE BUILDING 2" SERVICE PROFILE

3. METER HOUSE BUILDING FUTURE 8" SERVICE PROFILE

SCALE: 1" = 2'