GENERAL NOTES:

1. THE PARK STAFF HAVE SPENT A LOT OF TIME AND MONEY TO MAKE ARTIFICIAL SHROUDS, COVERS, GROUTING, STACKING ROCKS AND OTHER EFFORTS TO CONCEAL THE ELECTRICAL WORK AND HAVE THE CAVE APPEAR IN ITS NATURAL STATE AS MUCH AS POSSIBLE. THE WORK OF THIS CONTRACT SHALL PRESERVE AS MUCH OF THEIR EFFORTS AS POSSIBLE. WHENEVER POSSIBLE, THE CONTRACTOR IS REQUESTED TO MINIMIZE THE DAMAGE TO EXISTING CONDITIONS.
FIXTURES ON THIS DRAWING SHALL BE REMOVED FROM THE CAVE.

ALL NM CABLE SHALL BE REMOVED THROUGHOUT THE DRAWING.

ALL EXISTING ELECTRICAL PANELS SHALL BE REPLACED WITH NEW PANELS.

EXISTING LIGHTING WIRING SHALL BE REMOVED.

EXISTING FLOOD LIGHTS SHALL BE REPLACED WITH MATCHING FIXTURES.

SALTPETER DISPLAY TO LIGHT UP THE HALL AND BANDITTI.

KEYED FOR CIR 1P2A.

MATCH LINE SEE E-402 SWITCH FOR CONTROL.

#25 ELECTRICAL PANEL SEE E-402 MATCH LINE.

SWITCH FOR CONTROL PANEL L1 STATION #3.

WASHINGTON AVENUE CALL BOX.

TELEPHONE MATCH LINE.

HILL OF CALLIOPE BOXER TUMBLER SWITCH FOR CIRCUIT.

PILLARED PALACE PALACE OF THE GENII.

ELECTRICAL PANEL L3 STATION #10.

ELECTRICAL PANEL L4 STATION #11.

SWITCH FOR CIRCUIT L4.

CIR L1-7 STATION #7.

TELEPHONE MATCH LINE.

CIR L3-2 STATION #5.

PILLARED PALACE.

TELEPHONE MATCH LINE.

CIR L4-2 STATION #11.

CIR L4-2 STATION #11.

PILLARED PALACE.

TELEPHONE MATCH LINE.

CIR L4-2 STATION #11.

CIR L4-2 STATION #11.

PILLARED PALACE.

TELEPHONE MATCH LINE.

CIR L4-2 STATION #11.

CIR L4-2 STATION #11.

PILLARED PALACE.

TELEPHONE MATCH LINE.

CIR L4-2 STATION #11.

CIR L4-2 STATION #11.

PILLARED PALACE.

TELEPHONE MATCH LINE.

CIR L4-2 STATION #11.

CIR L4-2 STATION #11.

PILLARED PALACE.
GENERAL NOTE:

- Fixtures on this drawing shall be removed.
- New NEMA 4X enclosures.

- The cave.
- All NM cable shall be removed throughout.
- All electrical panels shall be replaced with new panels.
- All existing electrical lighting wiring shall be replaced.

- All A, B, C, and D designated existing lighting shall be replaced.

- Run of 12-2 w/ ground NM cable (typical).
- Lighting control.
- Light switch.
- Copper gray jacketed.
- Strip fluorescent fixture.
- LED step light.
- Flood light.
- Aimable flood light.
MATCH LINE

SEE E-402

SYMBOLES:

GENERAL NOTE:

1. ALL A, B, C, AND D DESIGNATED EXISTING LIGHT FIXTURES ON THIS DRAWING SHALL BE REMOVED AND REPLACED.
2. ALL EXISTING ELECTRICAL LIGHTING WIRING SHALL BE REMOVED AND REPLACED.
3. ALL ELECTRICAL PANELS SHALL BE REPLACED WITH NEW NEMA 4X ENCLOSURES.
4. ALL NM CABLE SHALL BE REMOVED THROUGHOUT THE CAVE.

WYANDOTTE CAVE - LAST OF CAVE DEMOLITION
WYANDOTTE CAVE - DEMOLITION
SYMBOLS:

- LIGHTING FIXTURES
- LIGHTING SYSTEM
- SWITCH FOR CONTROL PANEL, ELEVATION M
- TIMES FOR CONTROL PANEL, ELEVATION M
- Times for Control Panel, Elevation M
- TIMES FOR CONTROL PANEL, ELEVATION M

GENERAL NOTE:

- FEEDERS BETWEEN PANELS NOT SHOWN. SEE ONE ENCLOSURE.
- MOUNTED TO UNISTRUT AT LOCATIONS SHOWN IN NEMA 4X ENCLOSURES.
- ALL TELEPHONES SHALL BE 2#12, 1#12 GND JACKETED UF CABLE.
- THE SHEETS.
- ALTERNATE BID 2
- ALTERNATE BID 1
- SCALE: 1"=20'
1. SYMBOLS:

2. GENERAL NOTE:

   a. All materials, colors, and work shall be in accordance with the specifications and drawings.
   b. All materials, colors, and work shall be in accordance with the specifications and drawings.
   c. All materials, colors, and work shall be in accordance with the specifications and drawings.
   d. All materials, colors, and work shall be in accordance with the specifications and drawings.
   e. All materials, colors, and work shall be in accordance with the specifications and drawings.
   f. All materials, colors, and work shall be in accordance with the specifications and drawings.

   Additional note:

   - This drawing is for WYANDOTTE CAVE - MIDDLE OF CAVE NEW WORK.
   - All rights reserved: GRW Engineers, Inc. and shall not be reproduced in whole or in part or used for construction of other than this specific project without written permission.
AIMABLE FLOOD LIGHT

STRIP FLUORESCENT FIXTURE

LIGHT SWITCH

PICTURE NUMBER REFERENCE TO DRAWING E-102

LIGHTING CONTROL PANEL L-1, L-2, OR L-3

SYMBOLS:

C

RUN OF 12-2 W/ GROUND

COPPER GRAY JACKETED UF CABLE (TYPICAL)

GENERAL NOTE:

1. ALL A, B, AND C DESIGNATED LIGHT FIXTURES ON THIS DRAWING ARE NEW TO BE INSTALLED THIS CONTRACT.

2. ALL NEW ELECTRICAL LIGHTING WIRING SHALL BE 2#12, 1#12 GND JACKETED UF CABLE.

3. ALL NEW TELEPHONES SHALL BE GAI-TRONICS IN NEMA 4X ENCLOSURES. ALL TELEPHONES SHALL BE MOUNTED TO UNISTRUT AT LOCATIONS SHOWN IN THE SHEETS.

4. ALL ELECTRICAL PANELS SHALL BE NEW NEMA 4X ENCLOSURE.

5. FEEDERS BETWEEN PANELS NOT SHOWN. SEE ONE LINE DIAGRAMS.

SYMBOLS:

CIR 2P3-2

CIR 2P3-3

CIR 2P1-1

CIR 2P1-2

CIR 2P1-3

WALLACE GRAND DOME MONUMENT MOUNTAIN AUGER HOLE

ELECTRICAL PANEL 2P-1 LILLIPUTIAN HALL ELECTRICAL PANEL MAIN "2P"

SLIPPERY HILL SPADE'S GROTTO VALLEY OF THE SHAD

SWITCH FOR CONTROL PANEL - 2P2 STATION #22

SWITCH FOR CONTROL PANEL - 1P3 STATION #21

CIR 2P3-1

CIR 2P3-4

NEW TELEPHONE PRINTED: 8/15/2018 @ 4:08PM FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-406.dwg
EXISTING WELL CASING DRILLED INTO CAVE, 240 FEET BELOW.

EXISTING 200 AMP FEEDER TO MAIN PANEL INSIDE CAVE BELOW TO REMAIN.

EXISTING SEISMOGRAPH BUILDING
FIRST FLOOR

EXISTING SEISMOGRAPH BUILDING
BASEMENT
NEW LIGHT FIXTURE
TYPE "A" MOUNTING DETAIL

NEW LIGHT FIXTURE
TYPE "B" MOUNTING DETAIL

NEW LIGHT FIXTURE
TYPE "C" MOUNTING DETAIL

TYPICAL PANEL MODIFICATIONS

TYPICAL NEW SWITCH STATION

NEW CENTRAL LIGHTING
INVERTER FOUNDATION DETAIL

NOT TO SCALE

4-#6 E.F. W/ CORNER BARS

EXISTING TERMINAL BLOCK TO REMAIN
EXISTING CONTACTOR TO REMAIN
EXISTING DUPS RECEPTACLE TO REMAIN
EXISTING POWER BLOCK TO REMOVED TO ELIMINATE DOUBLE LUGGING. NEW POWER BLOCK TO ACCOMMODATE ONE WIRE IN TWO WIRE OUT
EXISTING PANEL ENCLOSURES TO BE REMOVED AND BE REPLACED WITH NEW NEMA TYPE 4 METAL PANEL.

E-501

PRINTED: 8/15/2018 @ 4:08PM
FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-501.dwg
EXISTING ELECTRIC SERVICE DROP
GROUND WIRE MOLDING
GRADE (5'-0" MINIMUM)
#2 BARE COPPER GROUND WIRE
EXOTHERMIC WELD (TYP)
20'-0" MIN SEPARATION
2"C (RIGID GALVANIZED STEEL) FOR TELECOMMUNICATIONS SERVICE
NEW TELEPHONE SERVICE DROP FROM PROVIDER
3/4" x 10'-0" COPPER-CLAD GROUND RODS

GENERAL NOTES:
1. UNDERGROUND CONDUIT FROM THE SERVICE RISER POLE TO THE CAVE SHALL BE SCHEDULE 40 PVC.
2. MOUNT SPD TO SERVICE POLE.

EXISTING METER/METER BASE.
EXISTING DISCONNECT.
BASE BID AND ALT. 2 SERVICE DROP

TYPICAL WIRING FOR PUSHBUTTON LIGHTING CONTROL STATIONS

TYPICAL 20A BREAKERS IN PANELS
CONNECT NEW PUSHBUTTON STATIONS TO EXISTING WIRING THIS CONTRACT
SURGE PROTECTION DEVICE (NOT SHOWN IN TRUE LOCATION)

CLIENT PROJECT NO. XXXX
GRW PROJECT NO. 4495-25
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PRINTED: 8/15/2018 @ 4:08PM
FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-502.dwg
BASE BID NEW LIGHT Fixture SCHEDULE

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<th>Fixture</th>
<th>Description</th>
<th>Lumen Source</th>
<th>Volts</th>
<th>Type</th>
<th>Lumens</th>
<th>Watts</th>
<th>Quantity</th>
<th>Manufacturer</th>
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<td>5000K</td>
<td>120</td>
<td>LINE</td>
<td>120</td>
<td>1200</td>
<td>1</td>
<td>GE Lighting</td>
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ALT. 2 NEW LIGHT Fixture SCHEDULE

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KEYNOTES TO ONE LINE DIAGRAMS:
1. EXISTING WIRE AND CONDUIT TO REMAIN.
2. NM WIRE OF CABLE.
3. NEW WIRE OF COPPER BURIED 30".
4. DRIVE ALL RODS TO 30" BELOW GRADE (INCLUDING EXISTING ROD).
5. FURNISH AND INSTALL A NEW TYPE 2 SPD THIS CONTRACT.

BASE BID ONE LINE

KEYNOTES TO ONE LINE DIAGRAMS:
1. EXISTING WIRE AND CONDUIT TO REMAIN.
2. NM WIRE OF CABLE.
3. NEW WIRE OF COPPER BURIED 30".
4. DRIVE ALL RODS TO 30" BELOW GRADE (INCLUDING EXISTING ROD).
5. FURNISH AND INSTALL A NEW TYPE 2 SPD THIS CONTRACT.

ALT. 1 ONE LINE

KEYNOTES TO ONE LINE DIAGRAMS:
1. EXISTING WIRE AND CONDUIT TO REMAIN.
2. NM WIRE OF CABLE.
3. NEW WIRE OF COPPER BURIED 30".
4. DRIVE ALL RODS TO 30" BELOW GRADE (INCLUDING EXISTING ROD).
5. FURNISH AND INSTALL A NEW TYPE 2 SPD THIS CONTRACT.

ALT. 2 ONE LINE

KEYNOTES TO ONE LINE DIAGRAMS:
1. EXISTING WIRE AND CONDUIT TO REMAIN.
2. NM WIRE OF CABLE.
3. NEW WIRE OF COPPER BURIED 30".
4. DRIVE ALL RODS TO 30" BELOW GRADE (INCLUDING EXISTING ROD).
5. FURNISH AND INSTALL A NEW TYPE 2 SPD THIS CONTRACT.