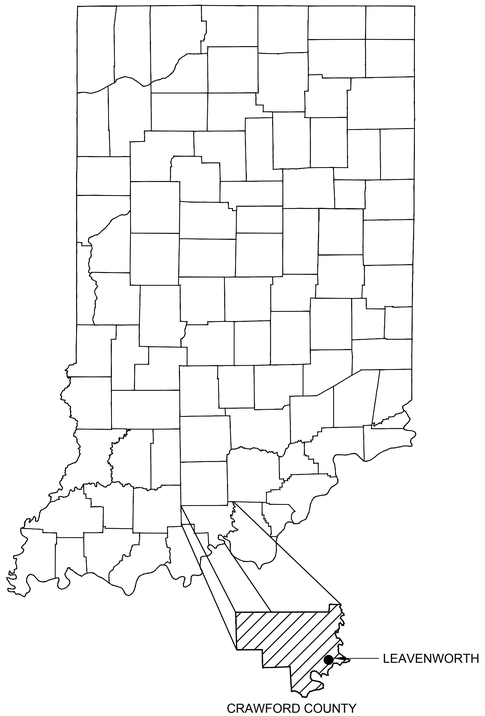
DEPARTMENT OF NATURAL RESOURCES
WYANDOTTE CAVE (LARGE)

CITY OF LEAVENWORTH, INDIANA



Indiana Department of Natural Resources

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INDEX OF DRAWINGS

DWG. No.

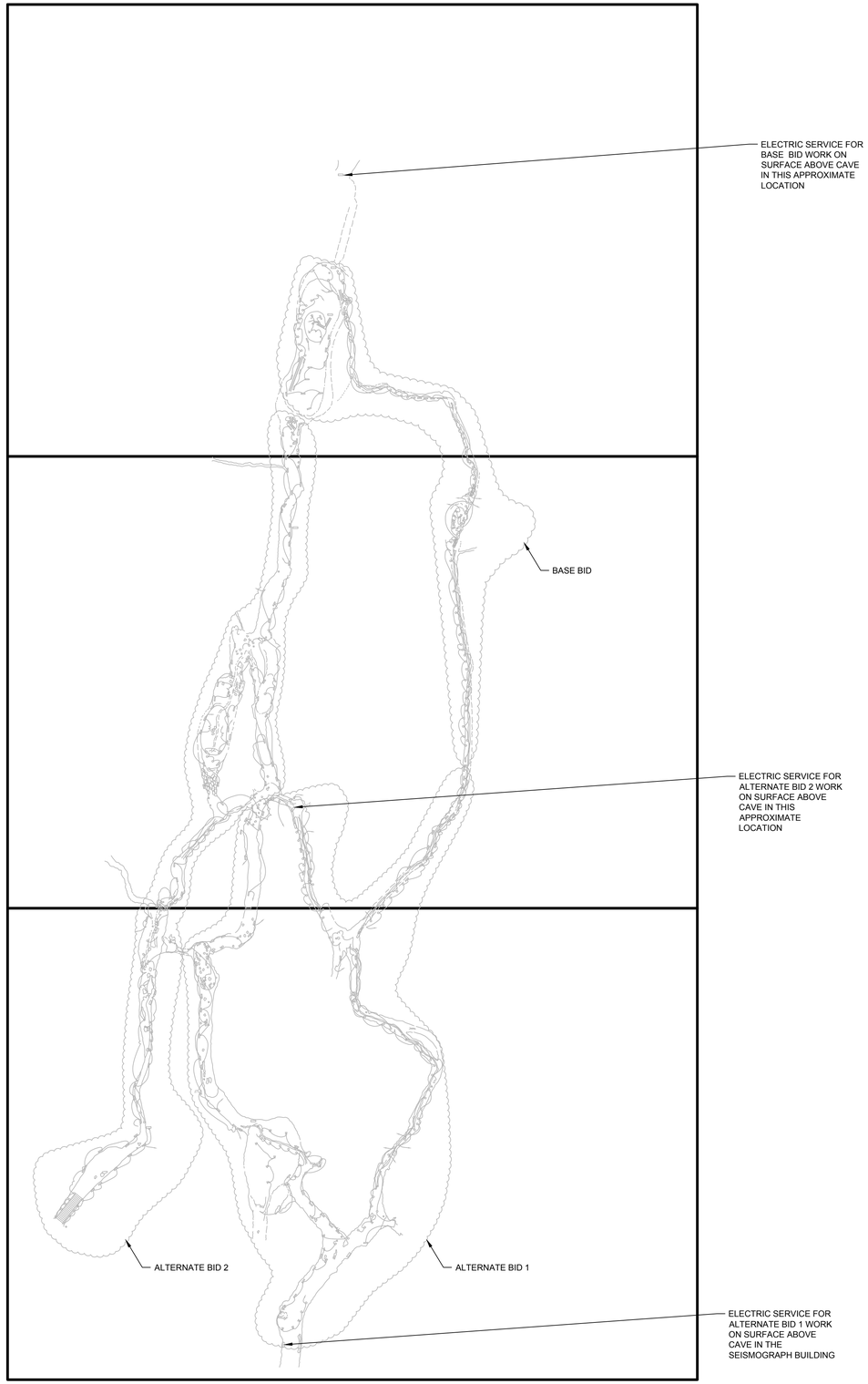
BID DOCUMENTS

SEPTEMBER, 2018

GRW PROJECT NO. 4495-25

PRINTED: 9/26/2018 @ 8:58AM

FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-G-000.dwg



WYANDOTTE CAVE

SCALE: 1"=60'-0" 0 60' 120'

GENERAL NOTES:

1. THE PARK STAFF HAVE SPENT A LOT OF TIME AND MONEY TO MAKE ARTIFICAL 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. PARK STAFF SHALL RECONCEAL THE ELECTRICAL WORK AFTER MODIFICATIONS ARE COMPLETED, AS LONG AS THE CONTRACTOR IS MAKING EFFORTS TO MINIMIZE THE DAMAGE TO EXISTING CONDITIONS.

WILLIAM LAWRENCE MAYNARD
REGISTERED
No 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
11.27.2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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WYANDOTTE CAVE - OVERALL KEY PLAN

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED: DRC
DRAWN: RHR
REVIEWED: WLM
APPROVED: WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

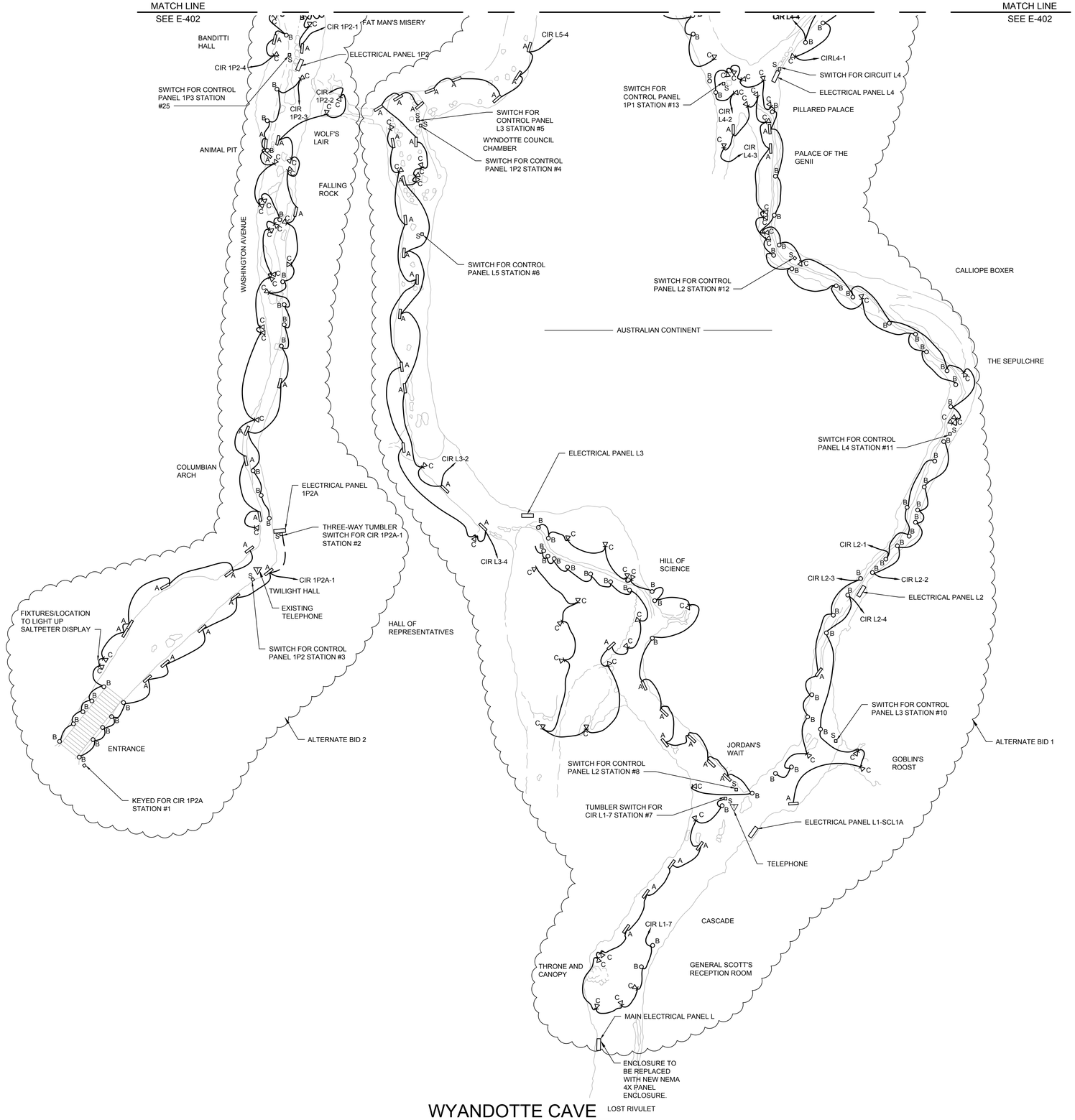
THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED
SCALE CHECK:

DATE:
SEPTEMBER 2018

SCALE:
1"=60'

SHEET NO.
E-101

PLOTTED BY: bramsey
PRINTED: 9/26/2018 @ 8:59AM
FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-101.dwg



SYMBOLS:

- A — EXISTING STRIP FLUORESCENT FIXTURE
- B — EXISTING FLOOD LIGHT
- C — EXISTING AIMABLE FLOOD LIGHT
- D — LED STEP LIGHT
- EXISTING LIGHT SWITCH
- EXISTING LIGHTING CONTROL PANEL
- RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED NM CABLE (TYPICAL)

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 EXISTING WIRE IN CONDUIT BETWEEN FEEDERS TO REMAIN.
4. ALL EXISTING TELEPHONES SHALL BE REMOVED.
5. ALL NM CABLE SHALL BE REMOVED THROUGHOUT THE CAVE.
6. ALL EXISTING PANELS SHALL REMAIN UNLESS OTHERWISE NOTED.
7. ALL EXISTING SWITCHES AND PUSHBUTTON CONTROLS TO BE REPLACED IN KIND.

WYANDOTTE CAVE
SCALE: 1"=20'-0"
0 20' 40'

PLOTTED BY: bramsey
PRINTED: 9/26/2018 @ 8:59AM
FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-401.dwg

WILLIAM CAMPBELL HAYNES
REGISTERED
No 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
11.27.2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25
CLIENT PROJECT NO. XXXX

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WYANDOTTE CAVE - ENTRANCE OF CAVE DEMOLITION

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

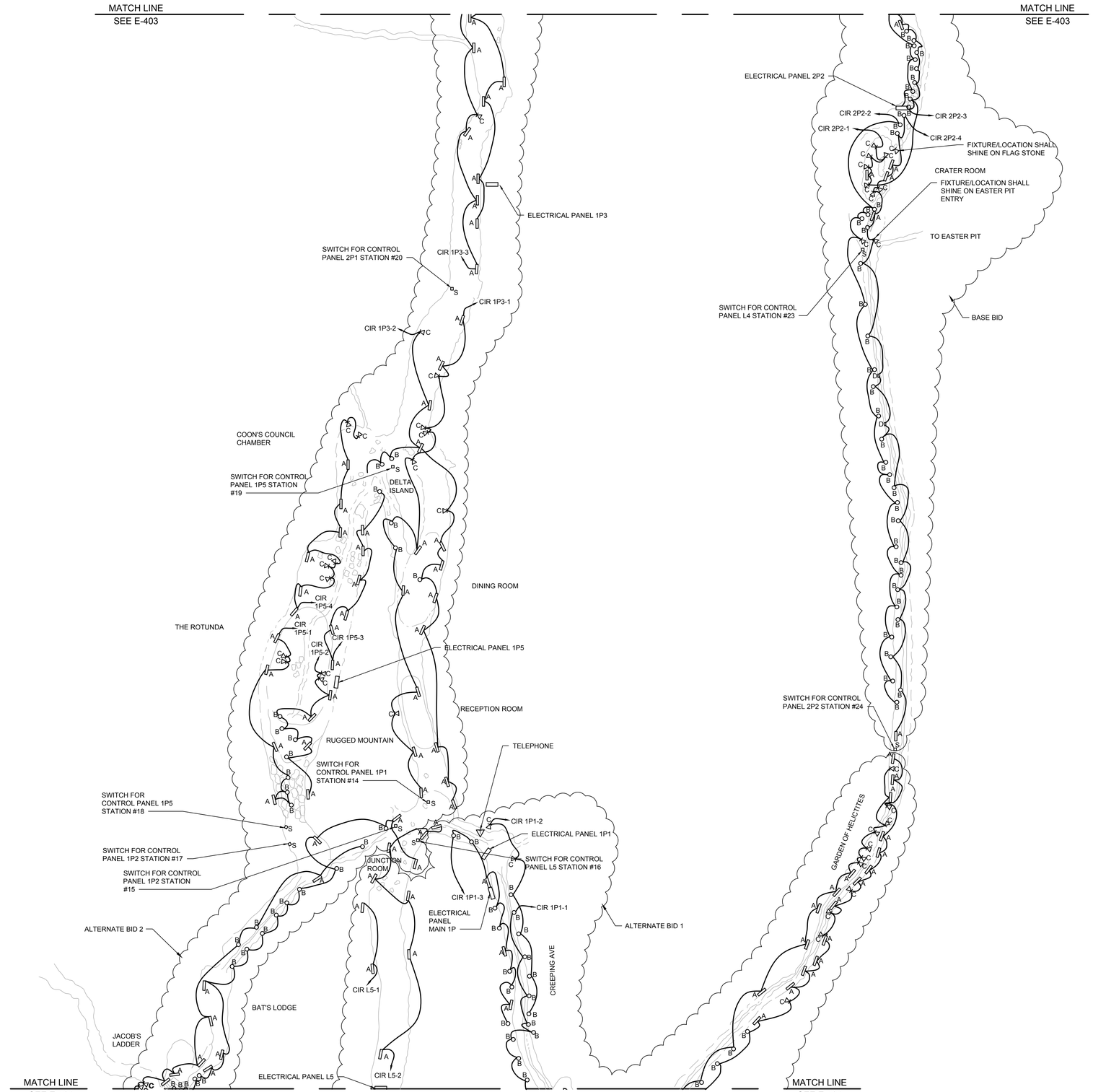
DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

THIS MARK SHOULD MEASURE 5"ACTLY 1" WHEN PLOTTED
SCALE CHECK:

DATE: SEPTEMBER 2018
SCALE: 1"=20'
SHEET NO. E-401



WYANDOTTE CAVE

SCALE: 1"=20'-0" 0 20' 40'

SYMBOLS:

- A — STRIP FLUORESCENT FIXTURE
- B — FLOOD LIGHT
- C — AIMABLE FLOOD LIGHT
- D — LED STEP LIGHT
- LIGHT SWITCH
- LIGHTING CONTROL PANEL
- RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED NM CABLE (TYPICAL)

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 EXISTING WIRE IN CONDUIT BETWEEN FEEDERS TO REMAIN.
4. ALL EXISTING TELEPHONES SHALL BE REMOVED.
5. ALL NM CABLE SHALL BE REMOVED THROUGHOUT THE CAVE.
6. ALL EXISTING PANELS SHALL REMAIN UNLESS OTHERWISE NOTED.
7. ALL EXISTING SWITCHES AND PUSHBUTTON CONTROLS TO BE REPLACED IN KIND.

PLOTTED BY: bramsey

PRINTED: 9/26/2018 @ 8:59AM

FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-402.dwg

WILLIAM LAWRENCE MAYNARD
REGISTERED
No. 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/26/2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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WYANDOTTE CAVE -
MIDDLE OF CAVE DEMOLITION

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

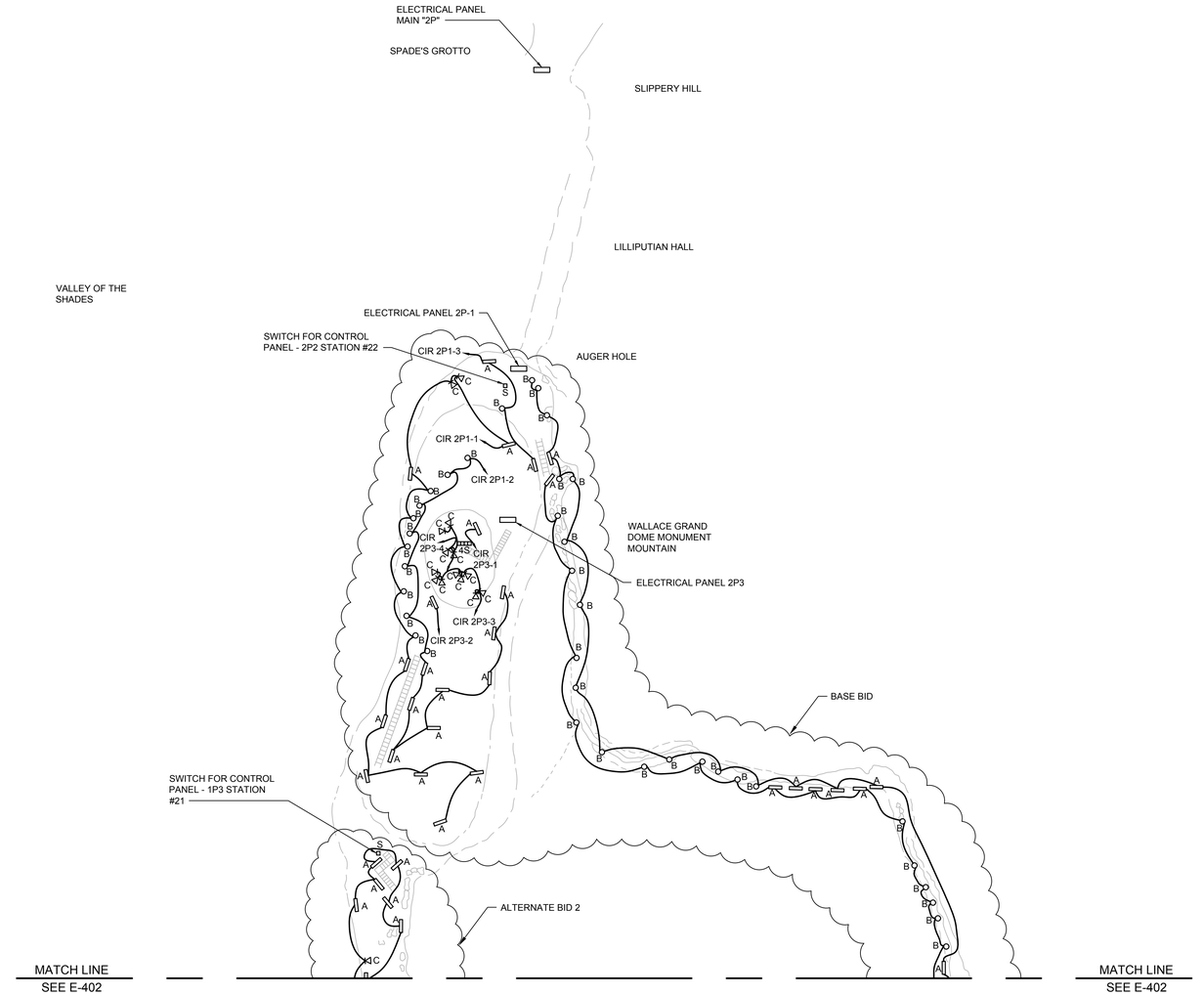
THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED
SCALE CHECK

DATE: SEPTEMBER 2018

SCALE: 1"=20'

SHEET NO.

E-402



WYANDOTTE CAVE

SCALE: 1"=20'-0" 0 20' 40'

SYMBOLS:

- A — STRIP FLUORESCENT FIXTURE
- B — FLOOD LIGHT
- C — AIMABLE FLOOD LIGHT
- D — LED STEP LIGHT
- LIGHT SWITCH
- LIGHTING CONTROL PANEL
- RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED NM CABLE (TYPICAL)

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 EXISTING WIRE IN CONDUIT BETWEEN FEEDERS TO REMAIN.
4. ALL EXISTING TELEPHONES SHALL BE REMOVED.
5. ALL NM CABLE SHALL BE REMOVED THROUGHOUT THE CAVE.
6. ALL EXISTING PANELS SHALL REMAIN UNLESS OTHERWISE NOTED.
7. ALL EXISTING SWITCHES AND PUSHBUTTON CONTROLS TO BE REPLACED IN KIND.

PLOTTED BY: bramsey

PRINTED: 9/26/2018 @ 8:59AM

FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-403.dwg

WILLIAM LAWRENCE MAYNARD
REGISTERED
No 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
11.27.2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

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WYANDOTTE CAVE - END OF CAVE DEMOLITION

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

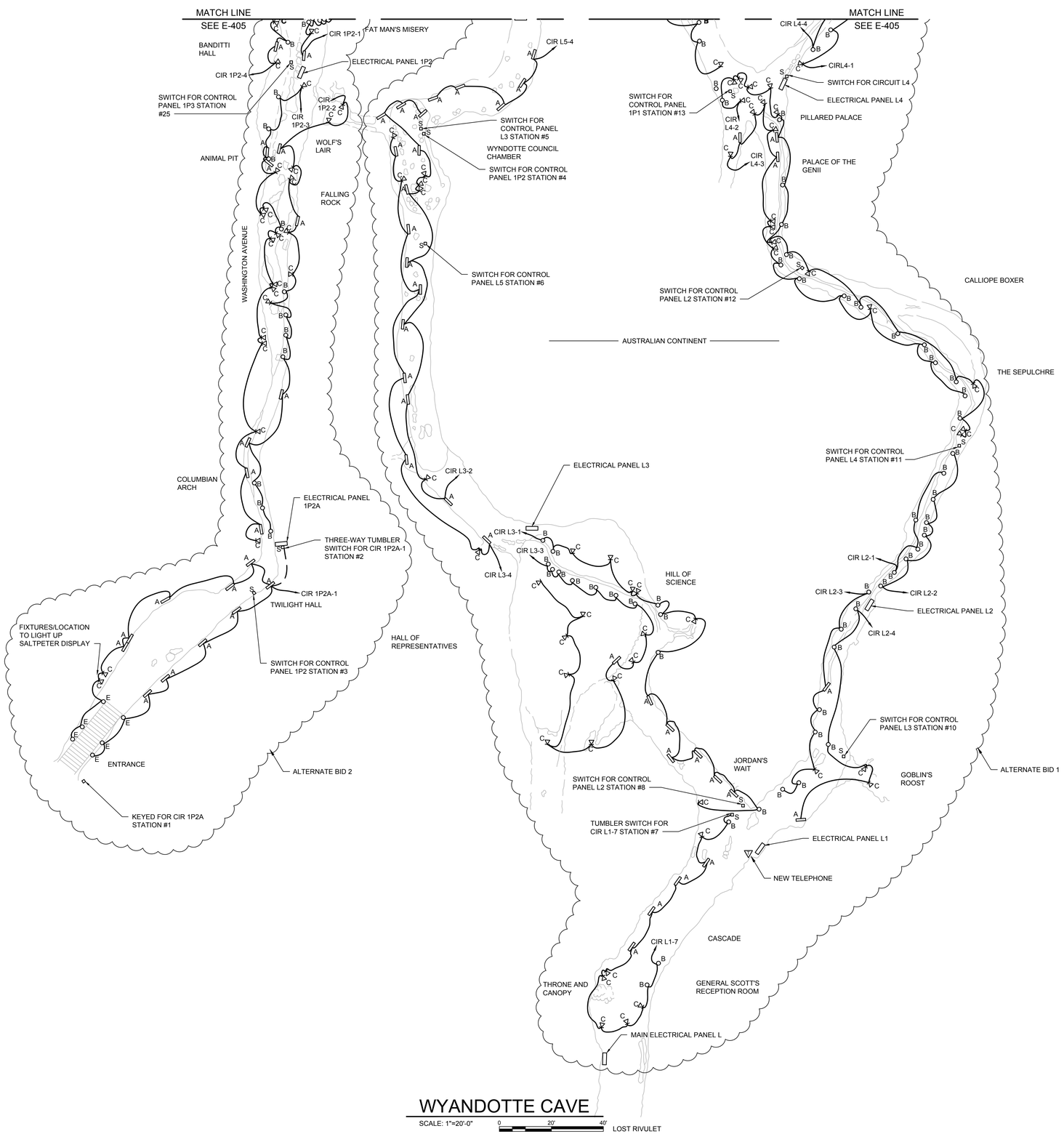
NO.	DESCRIPTION	DATE	BY

SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE: SEPTEMBER 2018

SCALE: 1"=20'

SHEET NO. E-403



SYMBOLS:

- 1X8 LED LIGHT (A)
- LED FLOOD LIGHT (B)
- LED AIMABLE FLOOD LIGHT (C)
- LED POLE LIGHT (E)
- LIGHT SWITCH
- LIGHTING CONTROL PANEL
- RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED UF CABLE (TYPICAL)

GENERAL NOTE:

1. ALL A, B, C, AND E 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. FEEDERS BETWEEN PANELS SHOWN ON SHEET E-407.
5. ALL NEW WIRING FOR SWITCHES/BUSHBUTTONS SHALL MATCH EXISTING WIRING USING NEW UF CABLE.
6. ALL ELECTRICAL PANELS ARE EXISTING.

PLOTTED BY: bramsey

PRINTED: 9/26/2018 @ 8:59AM

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WILLIAM CAMMETT MAYNARD
REGISTERED
No 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/26/2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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WYANDOTTE CAVE - ENTRANCE OF CAVE NEW LIGHTING

WYANDOTTE CAVE (LARGE)

LEAVENWORTH, INDIANA

DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

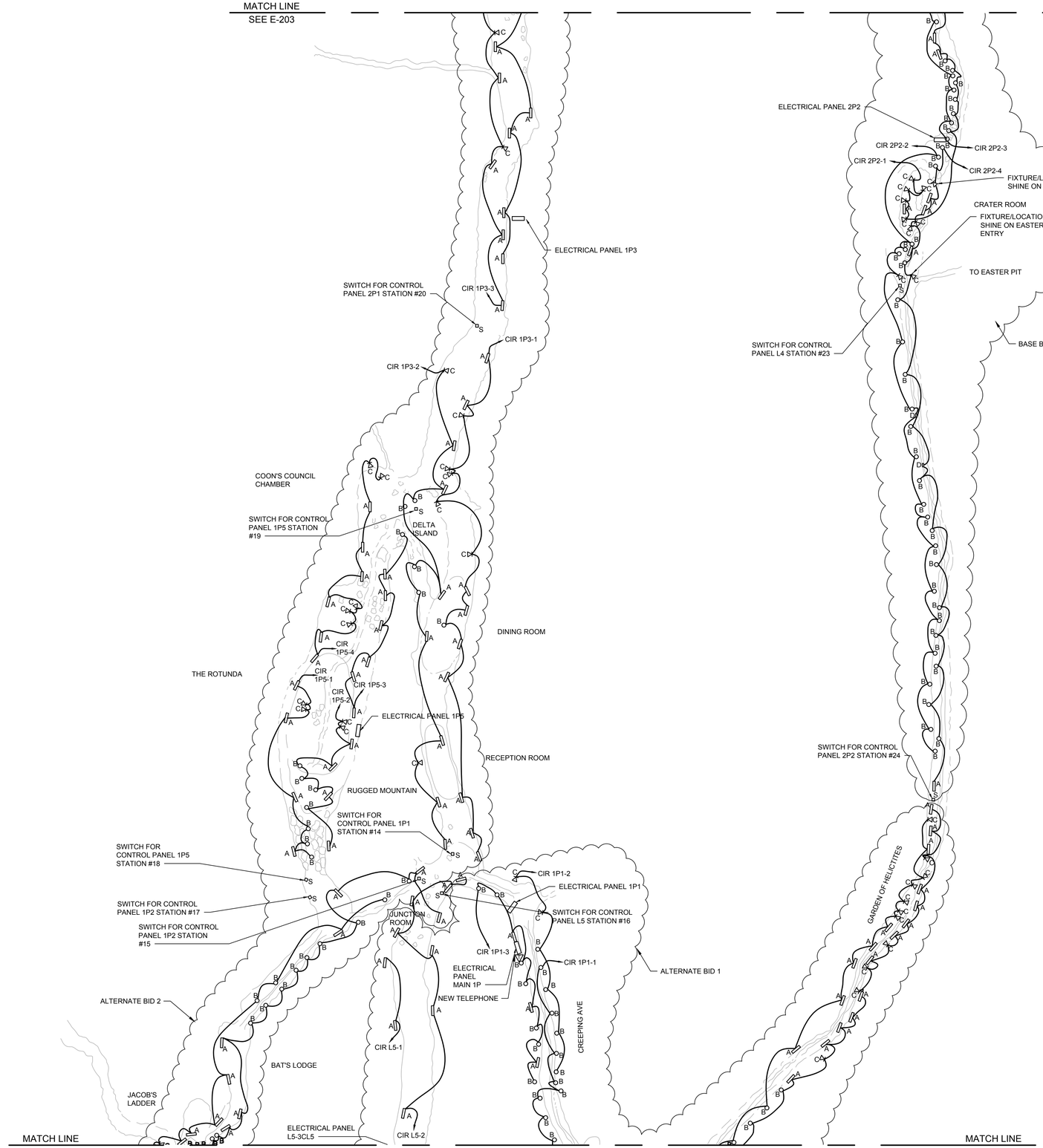
SCALE CHECK

DATE: SEPTEMBER 2018

SCALE: 1"=20'

SHEET NO.

E-404



WYANDOTTE CAVE

SCALE: 1"=20'-0" 0 20' 40'

SYMBOLS:

- A — 1X8 LED LIGHT
- B — LED FLOOD LIGHT
- C — LED AIMABLE FLOOD LIGHT
- D — LED STEP LIGHT
- LIGHT SWITCH
- LIGHTING CONTROL PANEL
- RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED UF CABLE (TYPICAL)

GENERAL NOTE:

1. ALL A, B, C, AND D 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. FEEDERS BETWEEN PANELS SHOWN ON SHEET E-408.
5. ALL NEW WIRING FOR SWITCHES/BUSHBUTTONS SHALL MATCH EXISTING WIRING USING NEW UF CABLE.
6. ALL ELECTRICAL PANELS ARE EXISTING.

WILLIAM EDWARD HAYNES
REGISTERED
No 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
9/26/2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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WYANDOTTE CAVE - MIDDLE OF CAVE NEW LIGHTING

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

SCALE CHECK — THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE: SEPTEMBER 2018

SCALE: 1"=20'

SHEET NO.: E-405

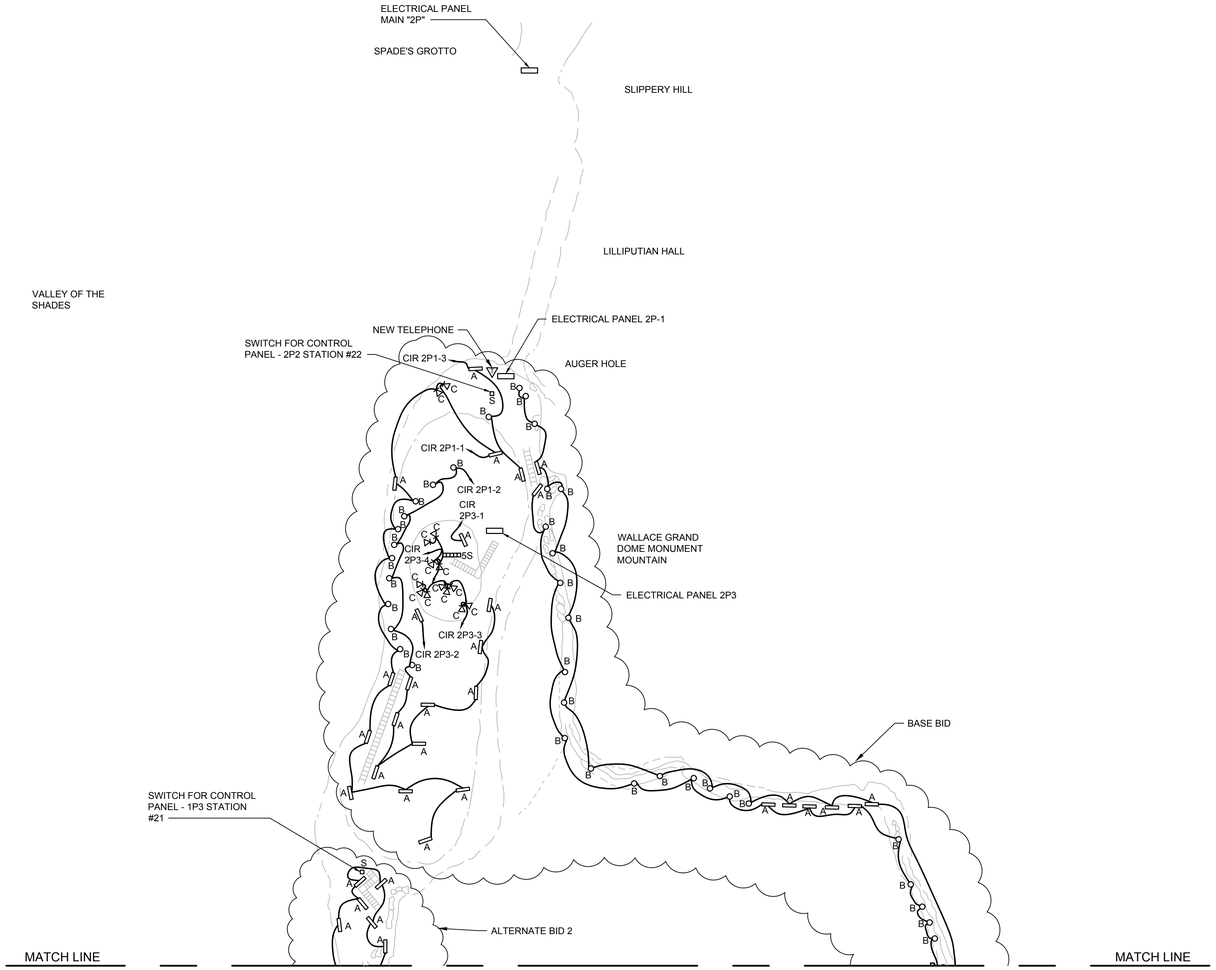
PRINTED: 9/26/2018 @ 8:59AM
PLOTTED BY: bramsey
FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-405.dwg

SYMBOLS:

- STRIP FLUORESCENT FIXTURE (A)
- FLOOD LIGHT (B)
- AIMABLE FLOOD LIGHT (C)
- LIGHT SWITCH
- LIGHTING CONTROL PANEL L-1, L-2, OR L-3
- 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. FEEDERS BETWEEN PANELS SHOWN ON SHEET E-409.
5. ALL NEW WIRING FOR SWITCHES/BUSHBUTTONS SHALL MATCH EXISTING WIRING USING NEW UF CABLE.
6. ALL ELECTRICAL PANELS ARE EXISTING.



WYANDOTTE CAVE

SCALE: 1"=20'-0" 0 20' 40'

WILLIAM CAMMITT RAYMOND
REGISTERED
No 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
11.7.18

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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WYANDOTTE CAVE
END OF CAV NEW LIGHTING

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

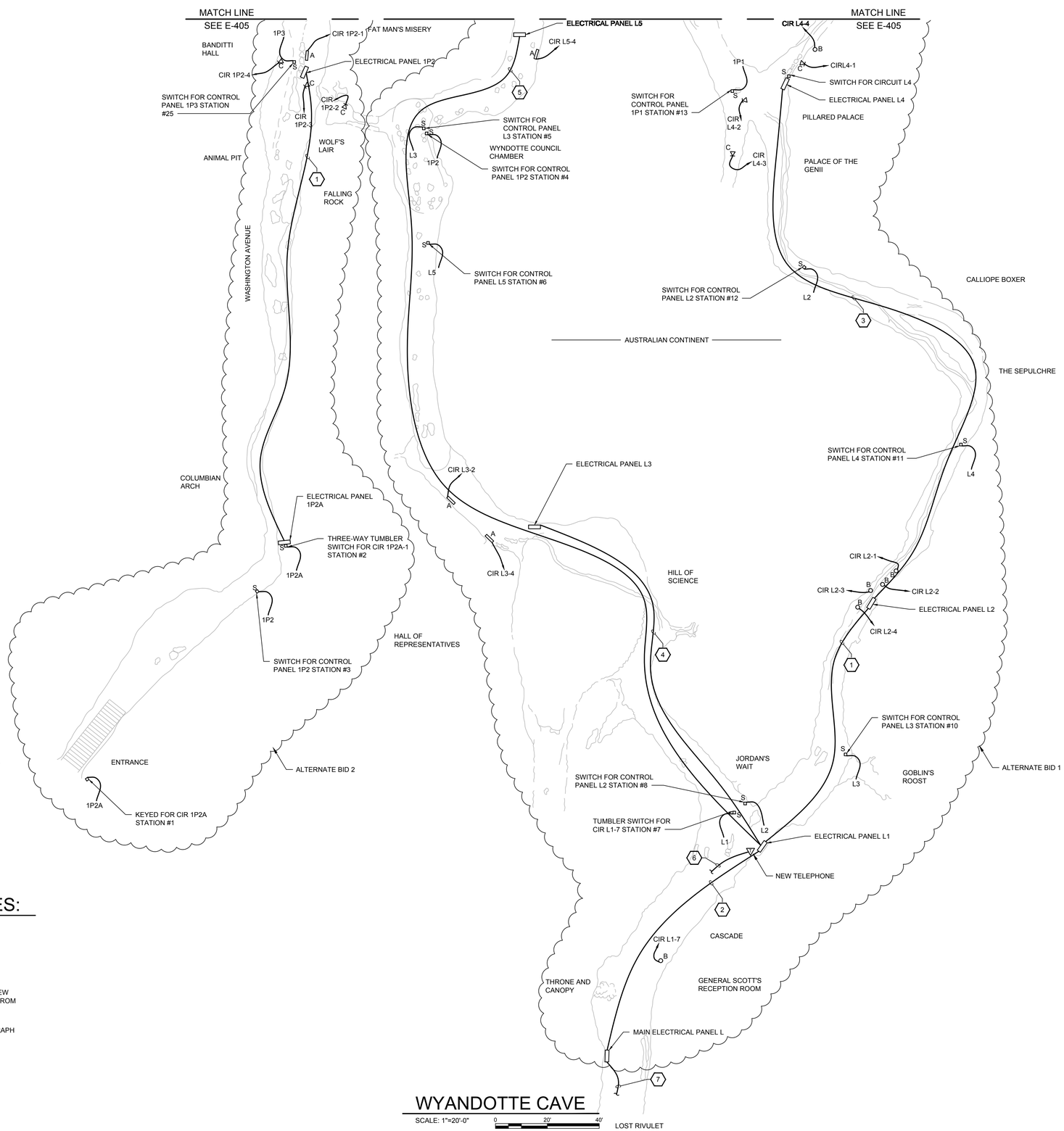
NO.	DESCRIPTION	DATE	BY

SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE:
SEPTEMBER 2018

SCALE:
1"=20'

SHEET NO.
E-406



WYANDOTTE CAVE

SCALE: 1"=20'-0"

0 20' 40'

SYMBOLS:

- 1X8 LED LIGHT (A)
- LED FLOOD LIGHT (B)
- LED AIMABLE FLOOD LIGHT (C)
- LED POLE LIGHT (E)
- LIGHT SWITCH
- LIGHTING CONTROL PANEL
- RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED UF CABLE (TYPICAL)

GENERAL NOTE:

1. ALL A, B, C, AND E 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.

SHEET KEYNOTES:

1. EXISTING 3#6, 1#10 GND , 1" PVC.
2. EXISTING 3#3/0, 1#6 GND, 2" PVC.
3. EXISTING 3#1, 1#10 GND, 1 1/2" PVC.
4. EXISTING 3#6, 1#10 GND, 1" PVC.
5. EXISTING 3#4, 1#10 GND, 1" PVC.
6. NEW CAT 6 INTERLOCK ARMORED CABLE TO NEW GAI-TRONICS NEMA 4X RUGGED TELEPHONE FROM NEW TELEPHONE ACCESS POINT LOCATED IN SEISMOGRAPH BUILDING.
7. TO SERVICE DROP LOCATED IN THE SEISMOGRAPH BUILDING.

PLOTTED BY: bramsey

PRINTED: 9/26/2018 @ 8:59AM

FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-407.dwg

WILLIAM COMMYT RAYMOND
REGISTERED
No 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
11.27.2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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WYANDOTTE CAVE -
ENTRANCE OF CAVE NEW POWER

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

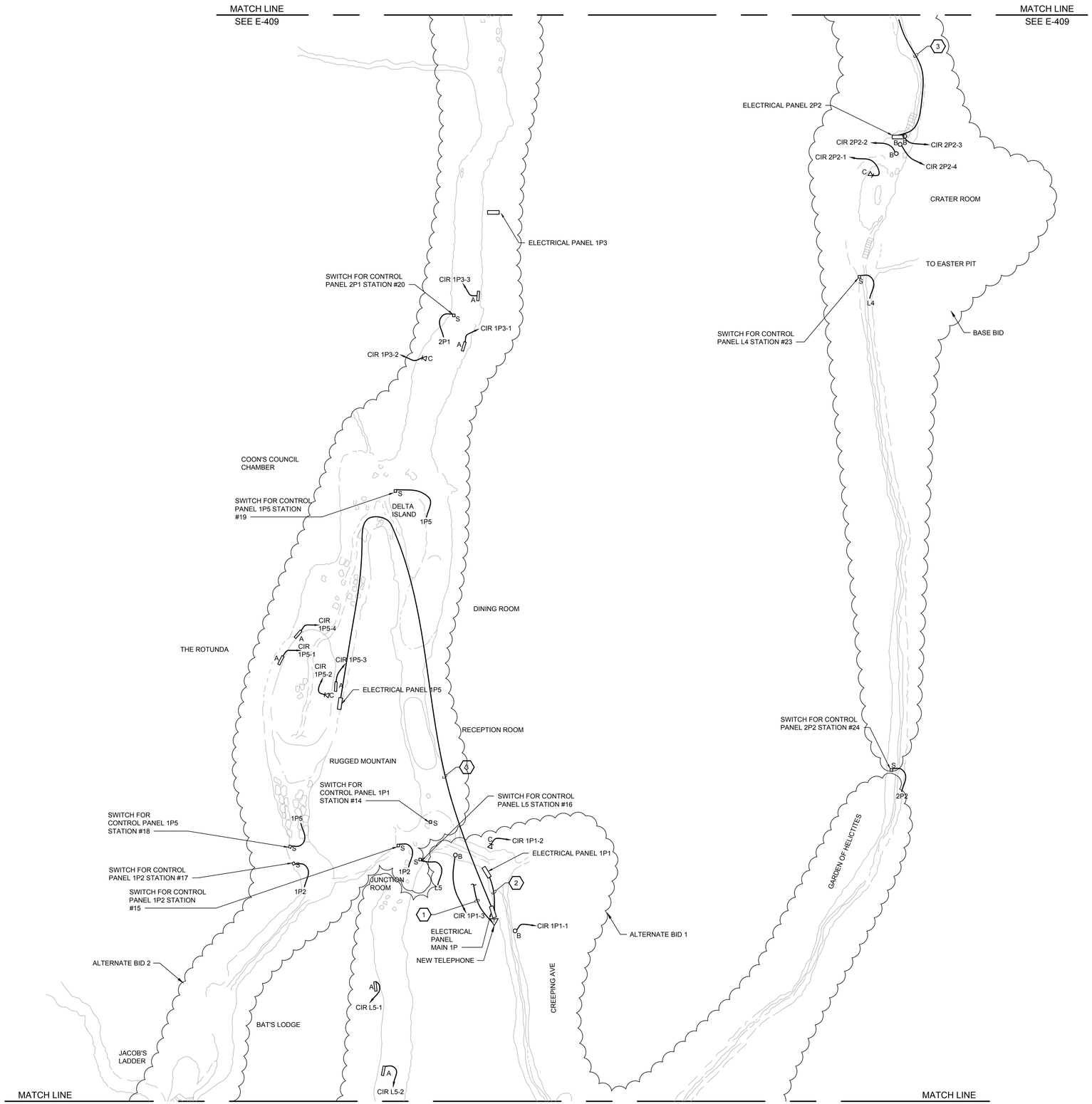
THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED
SCALE CHECK

DATE: SEPTEMBER 2018

SCALE: 1"=20'

SHEET NO.

E-407



WYANDOTTE CAVE

SCALE: 1"=20'-0" 0 20' 40'

SYMBOLS:

- A — 1X8 LED LIGHT
- B — LED FLOOD LIGHT
- C — LED AIMABLE FLOOD LIGHT
- D — LED STEP LIGHT
- LIGHT SWITCH
- LIGHTING CONTROL PANEL
- RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED UF CABLE (TYPICAL)

GENERAL NOTE:

1. ALL A, B, C, AND D 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.

SHEET KEYNOTES:

1. NEW CAT 6 INTERLOCK ARMORED CABLE TO NEW GAL-TRONICS NEMA 4X RUGGED TELEPHONE FROM NEW TELEPHONE ACCESS POINT LOCATED AT ALTERNATE 2 SERVICE DROP.
2. 3#4, 1#6 GND, 1 1/4" SCHEDULE 80 PVC
3. 3#1, 1#10 GND, 1 1/2" SCHEDULE 80 PVC

WILLIAM CHARLES HAYNES
REGISTERED
No 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
11.27.2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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WYANDOTTE CAVE - MIDDLE OF CAVE NEW POWER

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED
SCALE CHECK

DATE: SEPTEMBER 2018

SCALE: 1"=20'

SHEET NO.: E-408

PLOTTED BY: bramsey

PRINTED: 9/26/2018 @ 8:59AM

FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-408.dwg

SYMBOLS:

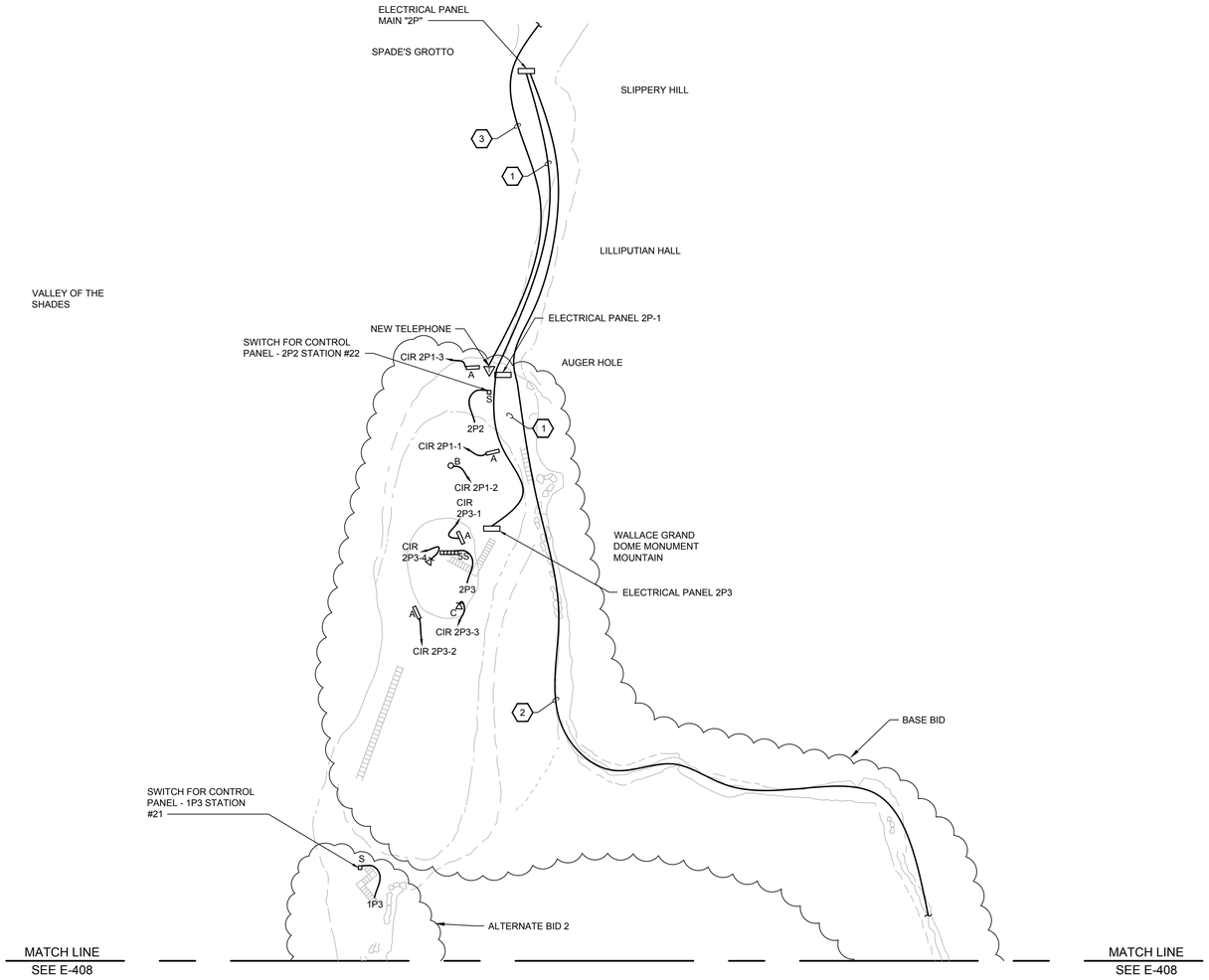
- A — STRIP FLUORESCENT FIXTURE
- B — FLOOD LIGHT
- C — AIMABLE FLOOD LIGHT
- LIGHT SWITCH
- LIGHTING CONTROL PANEL L-1, L-2, OR L-3
- RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED UF CABLE (TYPICAL)

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.

SHEET KEYNOTES:

1. 3#6, 1#10 1" SCHEDULE 80 PVC
2. 3#10, 1#10 GND 3/4" SCHEDULE 80 PVC
3. NEW CAT 6 INTERLOCK ARMORED CABLE TO NEW GAL-TRONICS NEMA 4X RUGGED TELEPHONE FROM NEW TELEPHONE ACCESS POINT LOCATED AT BASE BID SERVICE DROP.



WYANDOTTE CAVE

SCALE: 1"=20'-0" 0 20' 40'

WILLIAM LAWRENCE HAYNES
REGISTERED
No 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
11.27.2018

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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BID DOCUMENTS

WYANDOTTE CAVE
END OF CAV NEW POWER

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED: DRC
DRAWN: RHR
REVIEWED: WLM
APPROVED: WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

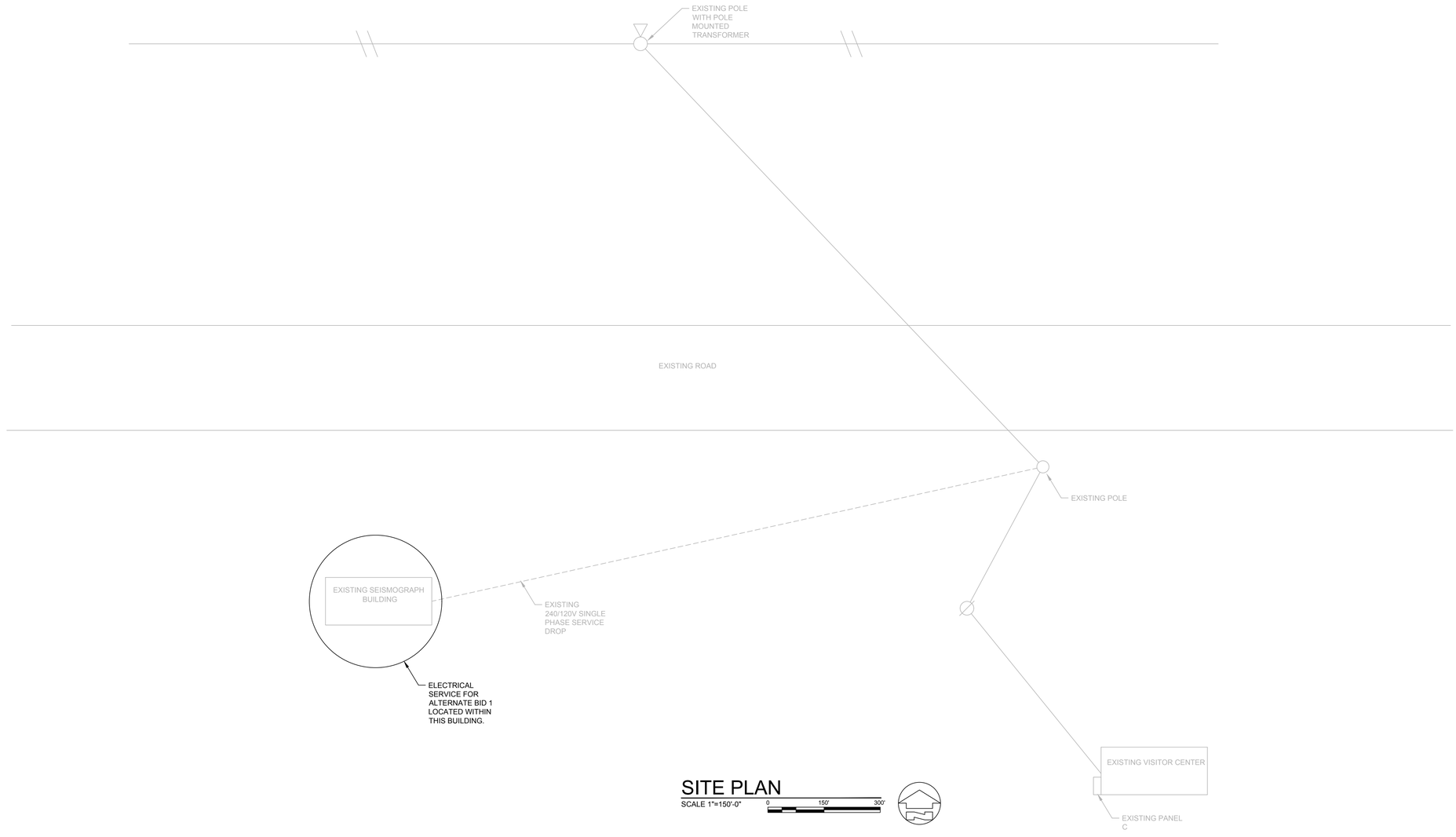
SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE: SEPTEMBER 2018

SCALE: 1"=20'

SHEET NO.

E-409



SITE PLAN

SCALE 1"=150'-0" 0 150' 300'

PLOTTED BY: bramsey

PRINTED: 9/26/2018 @ 8:59AM

FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-410.dwg

WILLIAM LAWRENCE MAYNARD
REGISTERED
No. 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
11.27.2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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WYANDOTTE CAVE VISITOR CENTER

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED: DRC
DRAWN: RHR
REVIEWED: WLM
APPROVED: WLM

REVISIONS

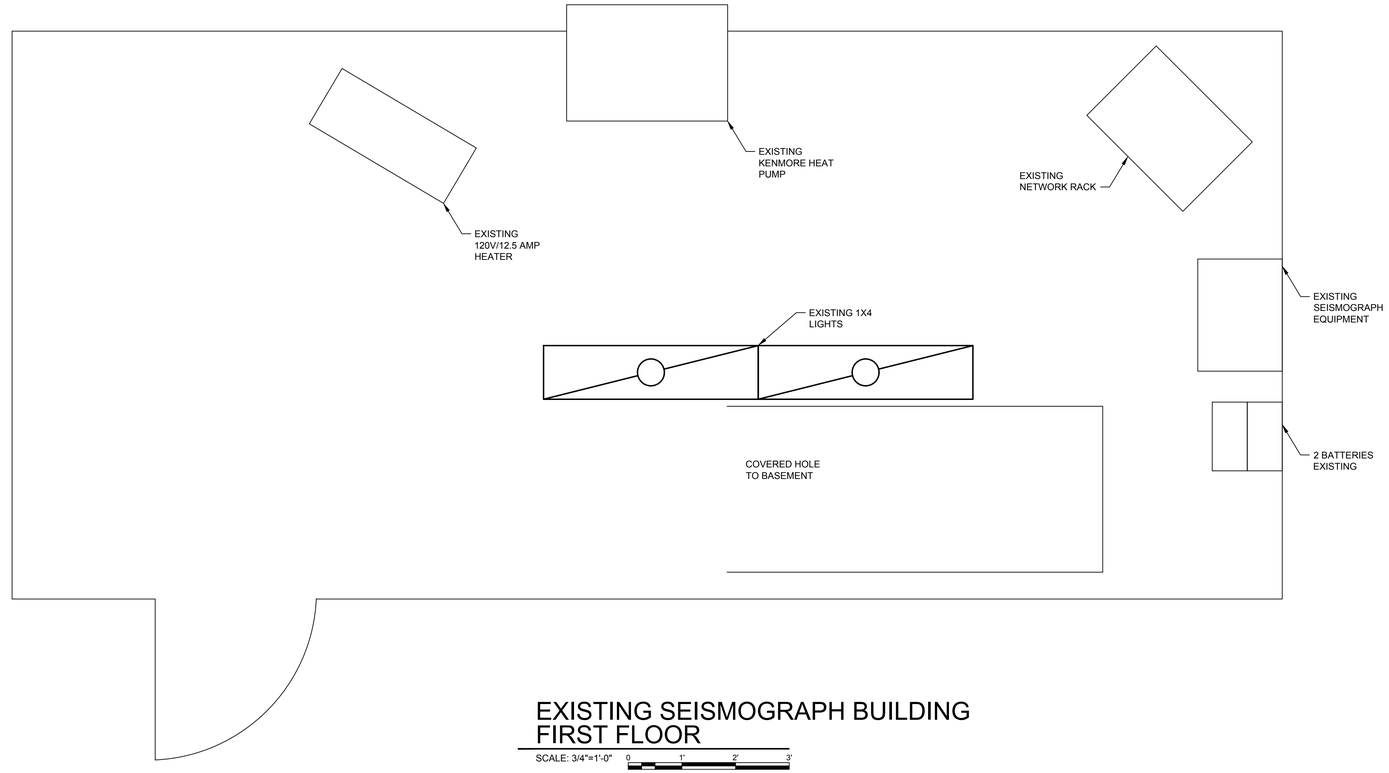
NO.	DESCRIPTION	DATE	BY

SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE:
SEPTEMBER 2018

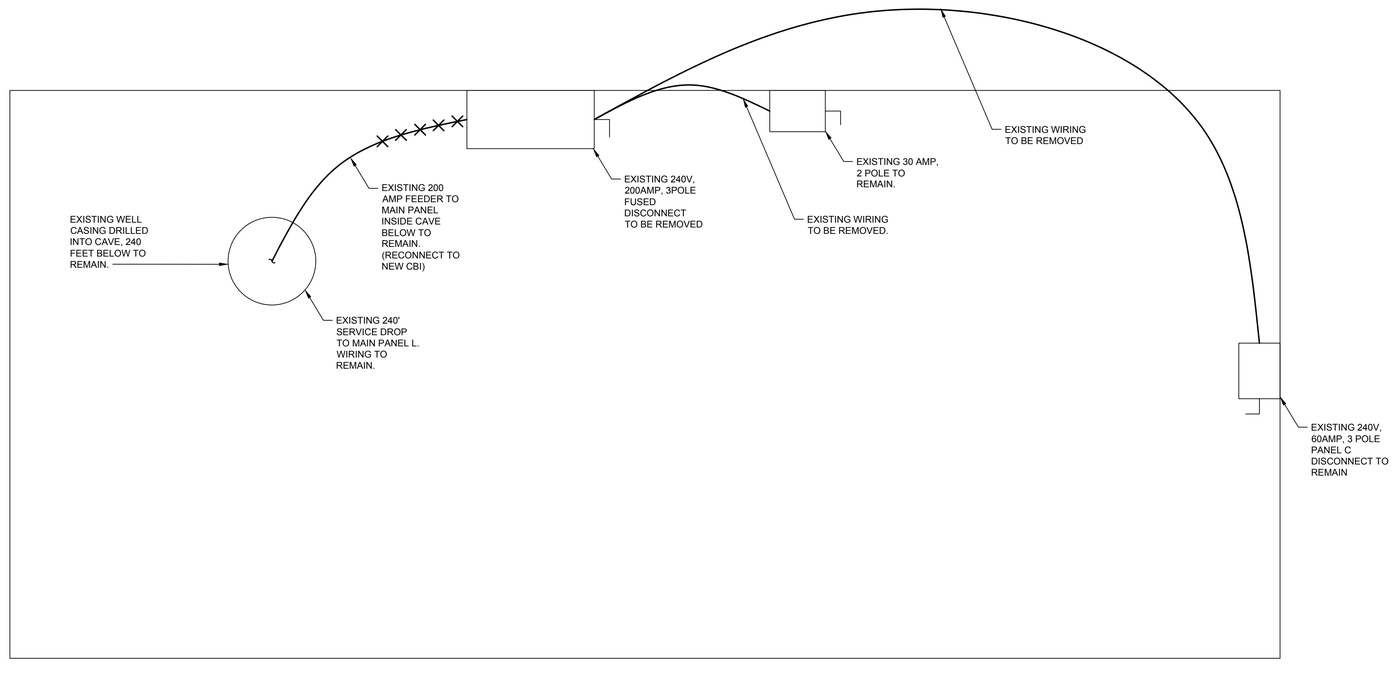
SCALE:
NOT TO SCALE

SHEET NO.
E-410



EXISTING SEISMOGRAPH BUILDING FIRST FLOOR

SCALE: 3/4"=1'-0" 0 1' 2' 3'



EXISTING SEISMOGRAPH BUILDING BASEMENT

SCALE: 3/4"=1'-0" 0 1' 2' 3'

PLOTTED BY: bramsey

PRINTED: 9/26/2018 @ 8:59AM

FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-411.dwg

WILLIAM CAMMITT RAYMOND
REGISTERED
No 19300315
STATE OF INDIANA
PROFESSIONAL ENGINEER
11.7.2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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WYANDOTTE CAVE - SEISMOGRAPH BUILDING DEMO

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE:
SEPTEMBER 2018

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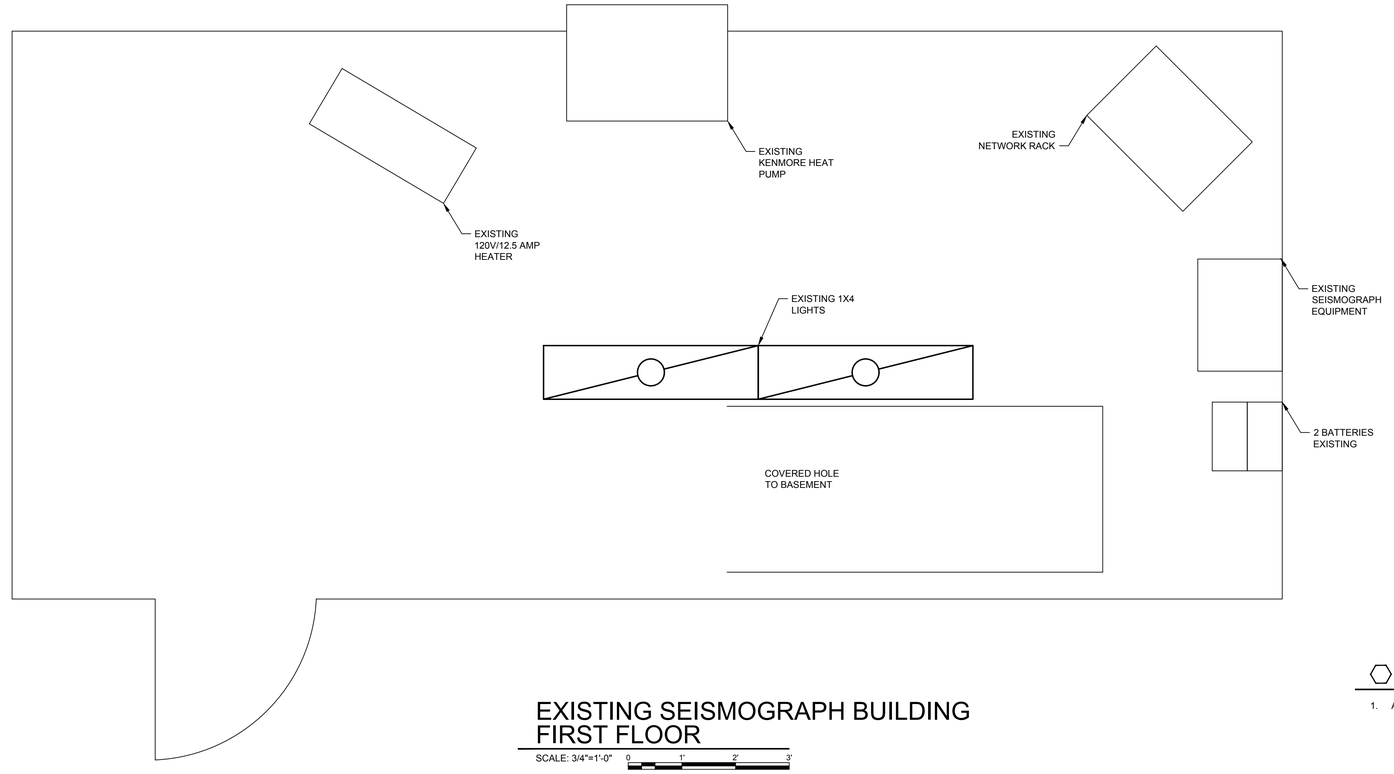
SHEET NO.
E-411

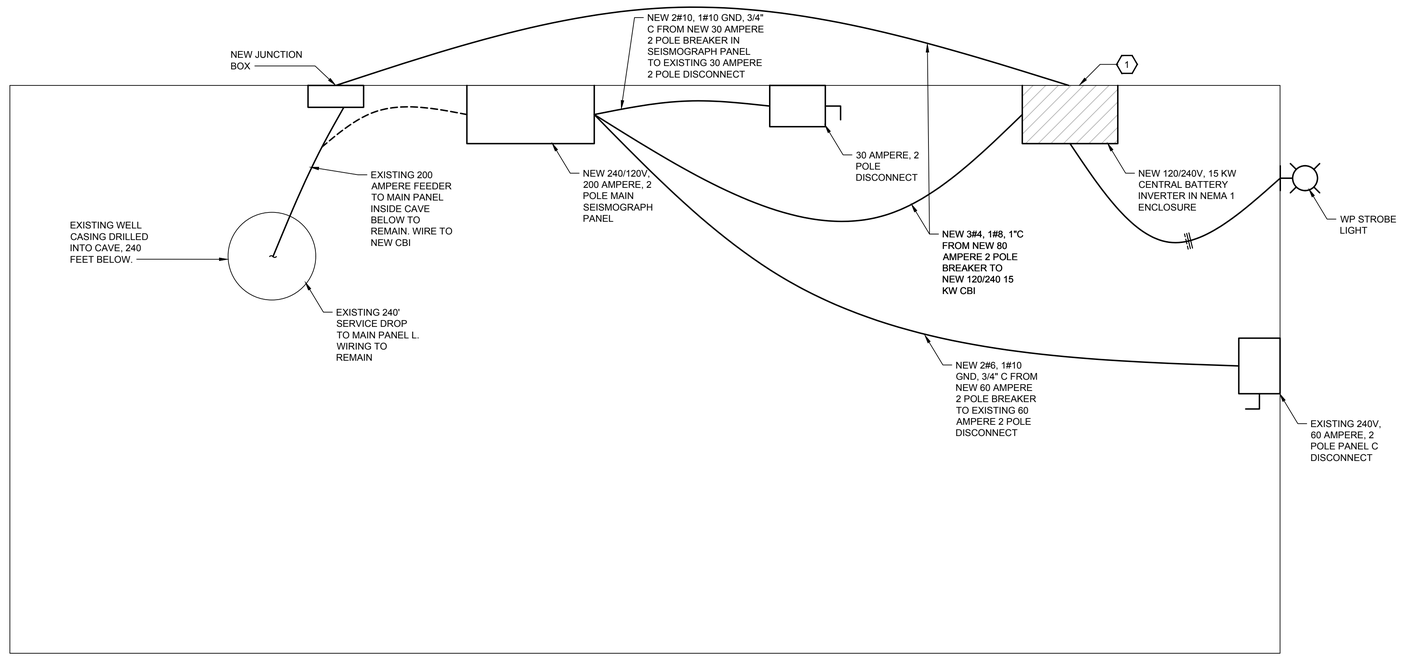


EXISTING SEISMOGRAPH BUILDING FIRST FLOOR

SCALE: 3/4"=1'-0" 0 1' 2' 3'

SHEET KEYNOTES:

1. ANCHOR CABINET TO CONCRETE FLOOR SLAB.



EXISTING SEISMOGRAPH BUILDING BASEMENT

SCALE: 3/4"=1'-0" 0 1' 2' 3'

BID DOCUMENTS

WILLIAM CAMMITT RAYMOND REGISTERED No. 19300315 STATE OF INDIANA PROFESSIONAL ENGINEER
11.27.2018

GRW PROJECT NO. 4495-25

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WYANDOTTE CAVE-
SEISMOGRAPH BUILDING NEW ELECTRICAL

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

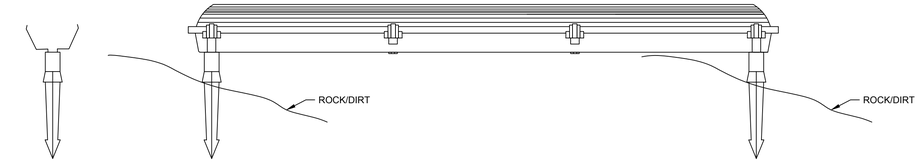
NO.	DESCRIPTION	DATE	BY

THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED
SCALE CHECK:

DATE:
SEPTEMBER 2018

SCALE:
NOT TO SCALE

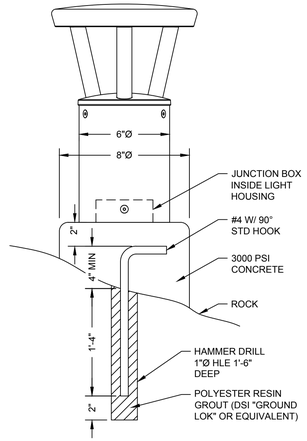
SHEET NO.
E-412



SIDE VIEW OF FIXTURE MOUNT.

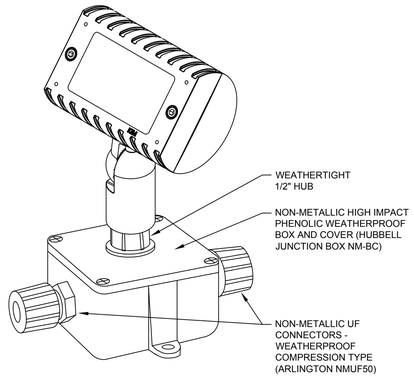
1 NEW LIGHT FIXTURE TYPE "A" MOUNTING DETAIL

NOT TO SCALE



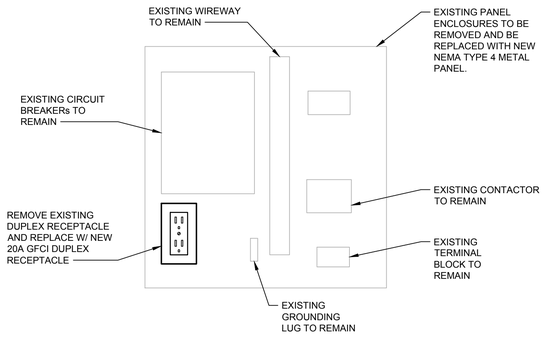
2 NEW LIGHT FIXTURE TYPE "B" MOUNTING DETAIL

NOT TO SCALE



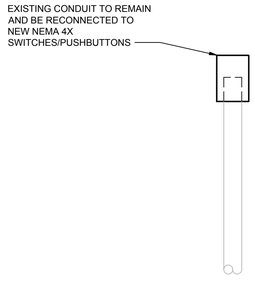
3 NEW LIGHT FIXTURE TYPE "C" MOUNTING DETAIL

NOT TO SCALE



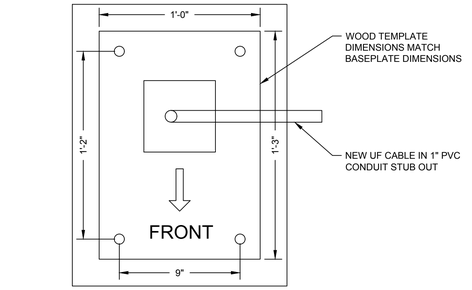
4 TYPICAL PANEL MODIFICATIONS

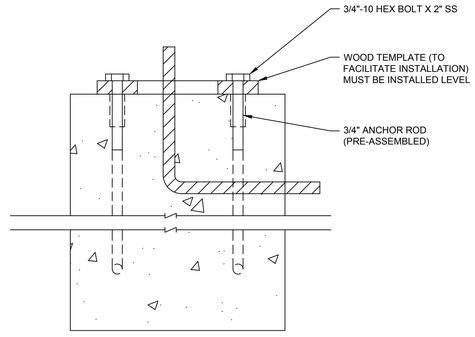
NOT TO SCALE



5 TYPICAL NEW SWITCH STATION

NOT TO SCALE





SECTION A

6 NEW POLE BASE FOUNDATION DETAIL

NOT TO SCALE

PLOTTED BY: bramsey

PRINTED: 9/26/2018 @ 9:00AM

FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-501.dwg

WILLIAM CAMMITT RAYMOND REGISTERED No. 19300315 STATE OF INDIANA PROFESSIONAL ENGINEER 11-27-2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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ELECTRICAL DETAILS I

WYANDOTTE CAVE (LARGE)

LEAVENWORTH, INDIANA

DESIGNED:	DRC
DRAWN:	RHR
REVIEWED:	WLM
APPROVED:	WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

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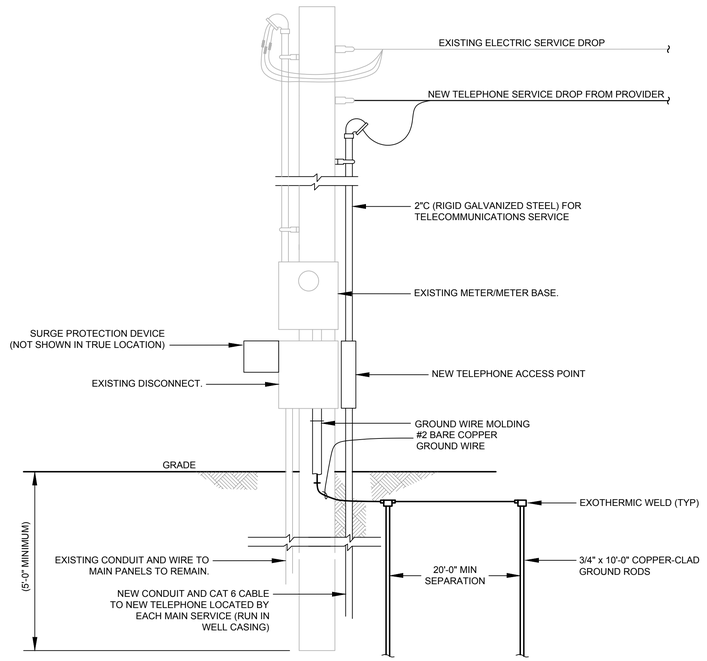
SHEET NO.

E-501

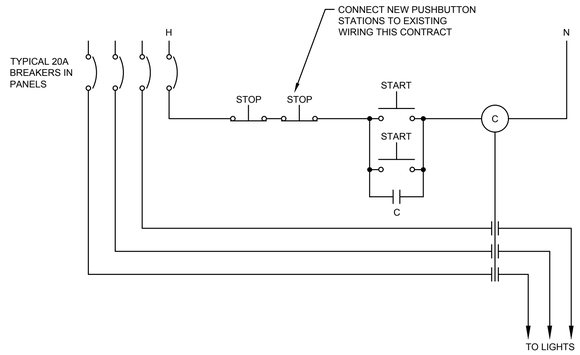


1 BASE BID AND ALT. 2 EXISTING SERVICE POLE MODIFICATIONS

NOT TO SCALE

GENERAL NOTES:

1. UNDERGROUND CONDUIT FROM THE SERVICE RISER POLE TO THE CAVE WELL CASING IS EXISTING.
2. MOUNT SPD TO SERVICE POLE.



TYPICAL WIRING FOR PUSHBUTTON LIGHTING CONTROL STATIONS

NOT TO SCALE

GENERAL NOTES:

1. FOR GENERAL REFERENCE ONLY. ALL CONTROL WIRING SHALL MATCH EXISTING USING NEW UF CABLE SUPPORTED EVERY 4.5' IN ACCORDANCE TO THE NEC.

WILLIAM LAWRENCE MAYNARD REGISTERED No 19300315 STATE OF INDIANA PROFESSIONAL ENGINEER
11.27.2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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ELECTRICAL DETAILS II

WYANDOTTE CAVE (LARGE)
LEAVENWORTH, INDIANA

DESIGNED: DRC
DRAWN: RHR
REVIEWED: WLM
APPROVED: WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE: SEPTEMBER 2018

SCALE: NOT TO SCALE

SHEET NO.

E-502

BASE BID NEW LIGHT FIXTURE SCHEDULE

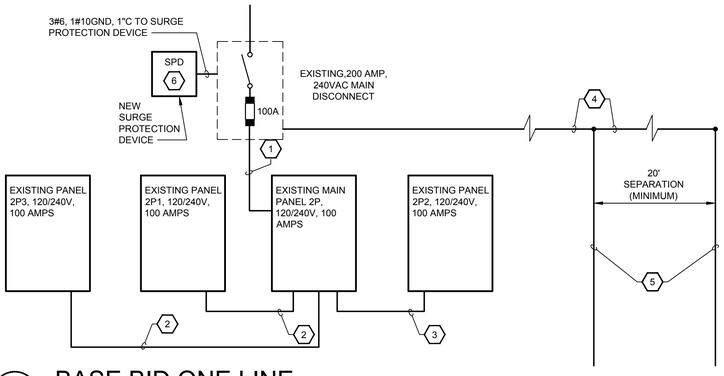
FIXTURE TYPE	DESCRIPTION	LUMEN SOURCE				VOLTS	MOUNTING		MANUFACTURER	MODEL NUMBER
		COLOR TEMP	TYPE	LUMENS	WATTS		TYPE	HEIGHT		
A	1X8 LED LXEM	3000K	LED	8,095	66.6	120	GROUND	N/A	COLUMBIA LIGHTING	LXEM8-30LW-RFA-EU-DWH-XEDPM
B	14" BOLLARD LED FIXTURE	3000K	LED	950	10	120	GROUND	N/A	FIRST LIGHT TECHNOLOGIES	PLB-AC-BZ-FT-30K-UV7
C	DIRECTIONAL FLOOD LED FIXTURE	3000K	LED	1,984	25	120	GROUND	N/A	HUBBELL	FSL-10L-25-3K-W-U-K-**
D	LED STEP LIGHT	3000K	LED	167	11.5	120	WALL INSERT	12"	KIM LIGHTING	EL807/9L3KUV

ALT. 1 NEW LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	LUMEN SOURCE				VOLTS	MOUNTING		MANUFACTURER	MODEL NUMBER
		COLOR TEMP	TYPE	LUMENS	WATTS		TYPE	HEIGHT		
A	1X8 LED LXEM	3000K	LED	8,095	66.6	120	GROUND	N/A	COLUMBIA LIGHTING	LXEM8-30LW-RFA-EU-DWH-XEDPM
B	14" BOLLARD LED FIXTURE	3000K	LED	950	10	120	GROUND	N/A	FIRST LIGHT TECHNOLOGIES	PLB-AC-BZ-FT-30K-UV7
C	DIRECTIONAL FLOOD LED FIXTURE	3000K	LED	1,984	25	120	GROUND	N/A	HUBBELL	FSL-10L-25-3K-W-U-K-**

ALT. 2 NEW LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	LUMEN SOURCE				VOLTS	MOUNTING		MANUFACTURER	MODEL NUMBER
		COLOR TEMP	TYPE	LUMENS	WATTS		TYPE	HEIGHT		
A	1X8 LED LXEM	3000K	LED	8,095	66.6	120	GROUND	N/A	COLUMBIA LIGHTING	LXEM8-30LW-RFA-EU-DWH-XEDPM
B	14" BOLLARD LED FIXTURE	3000K	LED	950	10	120	GROUND	N/A	FIRST LIGHT TECHNOLOGIES	PLB-AC-BZ-FT-30K-UV7
C	DIRECTIONAL FLOOD LED FIXTURE	3000K	LED	1,984	25	120	GROUND	N/A	HUBBELL	FSL-10L-25-3K-W-U-K-**
E	12' LED POLE LIGHT	3000K	LED	7792	74.8	120	POLE	12'	STRUCTURA	EVO-12-A12-LIN-16-LIN-P1/S-MOD

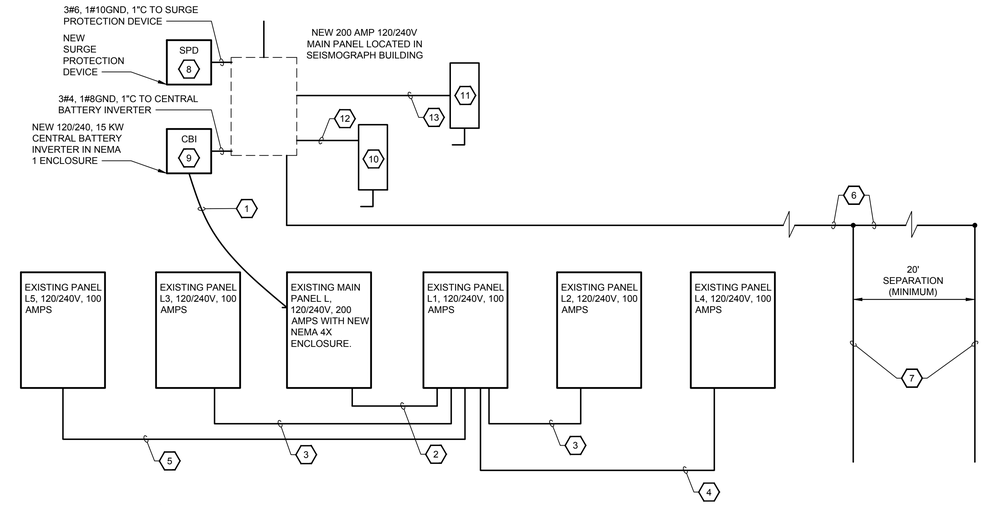


1 BASE BID ONE LINE

NOT TO SCALE

KEYNOTES TO ONE LINE DIAGRAMS:

1. EXISTING WIRE AND CONDUIT TO REMAIN.
2. EXISTING 3#6, 1#6 GND, 1" PVC TO REMAIN.
3. EXISTING 3#1, 1#10 GND, 1 1/2" PVC TO REMAIN.
4. NEW BARE #2 COPPER BURIED 30".
5. DRIVE ALL RODS TO 30" BELOW GRADE (INCLUDING EXISTING ROD).
6. FURNISH AND INSTALL A NEW TYPE 2 SPD THIS CONTRACT.

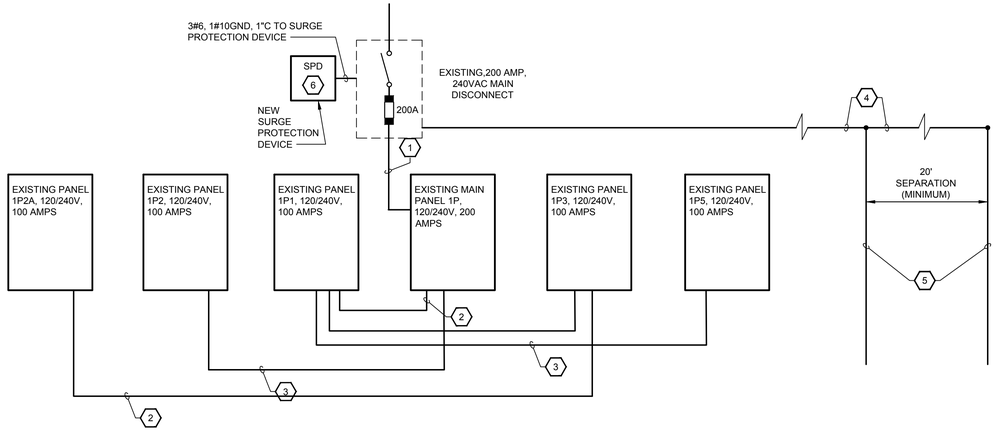


2 ALT. 1 ONE LINE

NOT TO SCALE

KEYNOTES TO ONE LINE DIAGRAMS:

1. EXISTING WIRE AND CONDUIT TO REMAIN.
2. EXISTING 3#3/0, 1#10 GND, 2" PVC TO REMAIN.
3. EXISTING 3#6, 1#10 GND, 1" PVC TO REMAIN.
4. EXISTING 3#1, 1#10 GND, 1 1/2" PVC TO REMAIN.
5. EXISTING 3#4, 1#10 GND, 1" PVC TO REMAIN.
6. NEW BARE #2 COPPER BURIED 30".
7. DRIVE ALL RODS TO 30" BELOW GRADE (INCLUDING EXISTING ROD).
8. FURNISH AND INSTALL A NEW TYPE 2 SPD THIS CONTRACT.
9. NEW 120/240, 15 KW CENTRAL BATTERY INVERTER IN NEMA 1 ENCLOSURE.
10. EXISTING 30 AMP 2 POLE DISCONNECT.
11. EXISTING 60 AMP 2 POLE DISCONNECT.
12. NEW 2#10, 1#10 GND, 3/4" C.
13. NEW 2#6, 1#10 GND, 3/4" C.



3 ALT. 2 ONE LINE

NOT TO SCALE

KEYNOTES TO ONE LINE DIAGRAMS:

1. EXISTING WIRE AND CONDUIT TO REMAIN.
2. EXISTING 3#6, 1#10 GND, 1" PVC TO REMAIN.
3. EXISTING 3#1, 1#10 GND, 1 1/2" PVC TO REMAIN.
4. NEW BARE #2 COPPER BURIED 30".
5. DRIVE ALL RODS TO 30" BELOW GRADE (INCLUDING EXISTING ROD).
6. FURNISH AND INSTALL A NEW TYPE 2 SPD THIS CONTRACT.

WILLIAM EMMETT RICHARD REGISTERED No 19300315 STATE OF INDIANA PROFESSIONAL ENGINEER 11.27.2018

BID DOCUMENTS

GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

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ELECTRICAL ONE LINES AND SCHEDULES

WYANDOTTE CAVE (LARGE)

LEAVENWORTH, INDIANA

DESIGNED:	DRAWN:	REVIEWED:	APPROVED:
DRC	RHR	WLM	WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

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DATE: SEPTEMBER 2018

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SHEET NO. E-601

PLOTTED BY: bramsey

PRINTED: 9/26/2018 @ 9:00AM

FILE NAME: G:\4495-IDNR-Bat Cave\Working Drawings\AutoCAD\Large Cave\4495-E-601.dwg

PANEL BOARD SCHEDULE

EXISTING LOAD CENTER - "L1"

SWITCH STATIONS:

MAIN BREAKER: 2P-200 AMP

CIR.	BREAKER POLE/AMPS	FEEDER	AMPS
L1-1	2P-60	PANEL - L2	6
L1-2	2P-60	PANEL - L4	23
L1-3	2P-60	PANEL - L3	19
L1-4	2P-60	PANEL - L5	11
L1-5	1P-15	HEATER	1
L1-6	1P-20	NEW GFCI RECEPTACLE	1.6
		CONT'D	

PANEL BOARD SCHEDULE

EXISTING LOAD CENTER - "L1" CONT'D

SWITCH STATIONS: #7 TUMBLER (L1-7)

MAIN BREAKER: 2P-200 AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
L1-7	1P-20	4	3	6	3.7
L1-8	1P-20	SPARE			–
L1-9	1P-20	SPARE			–
L1-10	–	–			–
L1-11	–	–			–
L1-20	–	–			–
				TOTAL AMPS	65.3

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "L2"

SWITCH STATIONS: #8, #12, & "L2"

MAIN LUG: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
L2-1	1P-20	–	4	–	.33
L2-2	1P-20	–	6	–	.50
L2-3	1P-20	1	6	1	1.3
L2-4	1P-20	1	3	2	1.2
L2-5	1P-15	HEATER			1
L2-6	1P-20	CONTACTOR/RECEPT			1.6
				TOTAL AMPS	5.93

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "L3"

SWITCH STATIONS: #5, #10, & "L3"

MAIN LUG: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
L3-1	1P-20	6	6	6	4.4
L3-2	1P-20	9	–	4	5.8
L3-3	1P-20	1	7	5	2.2
L3-4	1P-20	6	–	3	4.0
L3-5	1P-15	HEATER			1
L3-6	1P-20	CONTACTOR/RECEPT			1.6
				TOTAL AMPS	19

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "L4"

SWITCH STATIONS: #11, #23, & "L4"

MAIN LUG: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
L4-1	1P-20	12	3	6	8.2
L4-2	1P-20	1	9	11	3.6
L4-3	1P-20	2	6	9	3.48
L4-4	1P-20	6	3	6	4.8
L4-5	1P-15	HEATER			1
L4-6	1P-20	CONTACTOR/RECEPT			1.6
				TOTAL AMPS	22.68

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "L5"

SWITCH STATIONS: #6, #16, & "L5"

MAIN LUG: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
L5-1	1P-20	2	–	–	1.1
L5-2	1P-20	7	–	–	3.9
L5-3	1P-20	–	–	–	–
L5-4	1P-20	5	–	–	2.8
L5-5	1P-15	HEATER			1
L5-6	1P-20	CONTACTOR/RECEPT			1.6
				TOTAL AMPS	10.4

PANEL BOARD SCHEDULE

EXISTING LOAD CENTER - "1P"

SWITCH STATIONS: NONE

MAIN BREAKER: 200AMP

CIR.	BREAKER POLE/AMPS	FEEDER	AMPS
1P-1	2P-60	PANEL - 1P1	6.6
1P-2	2P-60	PANEL - 1P2 &1P2A	35.7
1P-3	2P-60	PANEL - 1P3	22.1
1P-4	2P-60	PANEL - 1P5	16.2
1P-5	1P-15	HEATER	1
1P-6	1P-20	NEW GFCI RECEPTACLE	1.6
		TOTAL AMPS	83.2

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "1P1"

SWITCH STATIONS: #13, #14 & "1P1"

MAIN BREAKER: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
1P1-1	1P-20	–	10	1	1.0
1P1-2	1P-20	–	4	2	.75
1P1-3	1P-20	3	7	–	2.2
1P1-4	1P-20	–	–	–	
1P1-5	1P-15	HEATER			1
1P1-6	1P-20	CONTACTOR/RECEPT			1.6
				TOTAL AMPS	6.55

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "1P2"

SWITCH STATIONS: #3, #4, #15, #17 & "1P2"

MAIN BREAKER: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
1P2-1	1P-20	7	14	1	7.0
1P2-2	1P-20	4	7	7	4.3
1P2-3	1P-20	4	4	12	5.0
1P2-4	1P-20	6	4	4	4.5
1P2-5	1P-15	HEATER			1
1P2-6	1P-20	CONTACTOR/RECEPT			1.6
				TOTAL AMPS	23.4

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "1P2A"

SWITCH STATIONS: #1 & #2 TUMBLERS

MAIN BREAKER: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"E"	"C"	AMPS
1P2A-1	1P-20	10	6	2	9.7
1P2A-2	1P-20	–	–	–	–
1P2A-3	1P-20	–	–	–	–
1P2A-4	-------	–	–	–	–
1P2A-5	1P-15	HEATER			1
1P2A-6	1P-20	CONTACTOR/RECEPT			1.6
				TOTAL AMPS	12.3

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "1P3"

SWITCH STATIONS: #21, #25 & "1P3"

MAIN BREAKER: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
1P3-1	1P-20	9	1	5	6.1
1P3-2	1P-20	7	5	2	4.7
1P3-3	1P-20	15	–	2	8.7
1P3-4	1P-20	–	–	–	–
1P3-5	1P-15	HEATER			1
1P3-6	1P-20	CONTACTOR/RECEPT			1.6
				TOTAL AMPS	22.1

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "1P5"

SWITCH STATIONS: #18, #19 & "1P5"

MAIN BREAKER: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
1P5-1	1P-20	4	3	2	2.9
1P5-2	1P-20	4	3	2	2.9
1P5-3	1P-20	6	1	–	3.4
1P5-4	1P-20	6	–	5	4.4
1P5-5	1P-15	HEATER			1
1P5-6	1P-20	CONTACTOR/RECEPT			1.6
				TOTAL AMPS	16.2

PANEL BOARD SCHEDULE

EXISTING LOAD CENTER - "2P"

SWITCH STATIONS: NONE

MAIN BREAKER: 2P-100

CIR.	BREAKER POLE/AMPS	FEEDER	AMPS
2P-1	2P-60	PANEL - "2P1"	14.1
2P-2	2P-60	PANEL - "2P2"	15.4
2P-3	2P-60	PANEL - "2P3"	6.25
2P-4	1P-20	SPARE	-
2P-5	1P-15	HEATER	1
2P-6	1P-20	CONTACTOR/RECEPT	1.6
		TOTAL AMPS	38.4

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "2P1"

SWITCH STATIONS: #20, #20a & #20b

MAIN BREAKER: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
2P1-1	1P-20	8	5	2	5.3
2P1-2	1P-20	8	7	–	5.0
2P1-3	1P-20	2	1	–	1.2
2P1-4	1P-20	–	–	–	–
2P1-5	1P-15	HEATER			1
2P1-6	1P-20	CONTACTOR/RECEPT			1.6
				TOTAL AMPS	14.1

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "2P2"

SWITCH STATIONS: #22, #24 & "2P2"

MAIN BREAKER: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	"D"	AMPS
2P2-1	1P-20	7	18	5	–	6.4
2P2-2	1P-20	–	16	1	1	1.6
2P2-3	1P-20	4	17		–	3.7
2P2-4	1P-20	–	14	4	1	1.1
2P2-5	1P-15	HEATER				1
2P2-6	1P-20	CONTACTOR/RECEPT				1.6
					TOTAL AMPS	15.4

PANEL BOARD SCHEDULE

EXISTING DISTRIBUTION PANEL - "2P3"

SWITCH STATIONS: #26, #27, #28 & #29 TUMBLER

MAIN BREAKER: 100AMP

CIR.	BREAKER POLE/AMPS	FIXTURE QUANTITY "A"	"B"	"C"	AMPS
2P3-1	1P-20	1	–	–	.56
2P3-2	1P-20	1	–	–	.56
2P3-3	1P-20	–	–	8	1.7
2P3-4	1P-20	–	–	4	.83
2P3-5	1P-15	HEATER			1
2P3-6	1P-20	NEW GFCI RECEPTACLE			1.6
				TOTAL AMPS	6.25

GENERAL NOTES:

1. ALL PANELS RECEPTACLES IS GETTING REPLACED WITH NEW GFCI RECEPTACLES.

PLOTTED BY: bramsey

PRINTED: 9/26/2018 @ 9:00AM

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11.27.2018

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PANEL BOARD SCHEDULES

WYANDOTTE CAVE (LARGE)

LEAVENWORTH, INDIANA

DESIGNED: DRC

DRAWN: RHR

REVIEWED: WLM

APPROVED: WLM

REVISIONS

NO.	DESCRIPTION	DATE	BY

SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED

DATE:
SEPTEMBER 2018

SCALE:
NOT TO SCALE

SHEET NO.
E-602