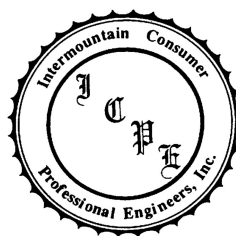


**Heber Light & Power
12.47 kV Load Flow Study**

March 2019



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SYSTEM STUDY

System Study Overview

This electrical system study report addresses study methods and results of load flow analysis of the Heber Light & Power 12.47 kV distribution system. The 46 kV portion of the system is not covered in this report, but was studied as part of a separate report. Substations include Midway Substation, Provo River Substation, Heber Substation, Cloyes Substation, Jailhouse Substation and College Substation. Generators are located at Snake Creek Hydro, Lake Creek Hydro, Jordanelle Hydro and the Heber Plant. A total of seventeen circuits were modeled.

The primary goal of the load flow was to study system loading including during N-1 outage conditions to help the Company to plan for future growth requirements including substation upgrades and 12.47 kV line upgrades. Recommendations for system improvements have been provided.

System Models and Assumptions

To perform load flow analysis a system computer model was developed. Model development is discussed in the System Modeling section of this report. System model development and analysis were performed on Paladin DesignBase 4.0 software.

System modeling data was developed from Heber Light & Power provided system data. Circuit models are based on the assumption that provided circuit maps and data (conductor sizes, circuit configurations, line lengths, etc.) are reflective of actual field conditions.

Summary

The system load flow provides insight on substation transformer loading, line loading, and system voltage drop. The study includes analyzing N-1 outage conditions. An N-1 outage condition is the loss of a major system component such as a section of 12.47 kV line. Results and recommendations are discussed in the System Load Flow Analysis and Results section of this report.

SYSTEM LOAD FLOW ANALYSIS AND RESULTS

System load flow studies were performed for years 2018 and 2022. Overall system load projections are based on load projections done in 2018 by Utility Financial Solutions LLC. The load flow studies were utilized to assess line and transformer loading conditions and system voltage conditions. Tables shown below contain projected Heber Light & Power system load and projected circuit loads for years that were analyzed. The 2018 circuit and transformer load levels shown below are based on current circuit configuration.

Heber Light & Power– Projected System Peak Load		
Year	Heber Light & Power Load	
	MW	MVA
2018	44.63 MW	46.0 MVA
2022	48.86 WM	49.4 MVA

Substation Transformer	Recloser	2018		2022	
		Amps	kVA	Amps	kVA
Midway Transformer 10/12.5/14 MVA 46 kV – 12.47 kV	MW101	87	1,885	91	1,966
	MW102	215	4,644	219	4,726
	MW104	38	827	42	913
	Sub Total	341	7,355	352	7,605
Provo River 5 MVA (with fans) 46 kV – 12.47 kV	PR201	233	5,036	237	5,117
	PR202	26	556	30	638
	Sub Total	259	5,591	266	5,755
Heber T1 12/16/20 MVA 46 kV – 12.47 kV	HB302	275	5,930	298	6,435
	HB303	114	2,462	137	2,957
	Sub Total	389	8,392	435	9,392
Heber T2 12/16/20 MVA 46 kV – 12.47 kV	HB304	178	3,848	201	4,343
	HB305	79	1,710	83	1,792
	Sub Total	257	5,558	284	6,135
Cloyes 7.5/9.375 MVA 46 kV – 4.16 kV	CL401	34	737	38	829
	CL402	108	2,338	112	2,422
	CL403	-	-	-	-
	Sub Total	142	3,075	151	3,251
Jailhouse T1 10/12.5/14 MVA 46 kV – 12.47 kV	JH501	172	3,706	175	3,787
	JH503	44	954	48	1,036
	JH505	6	134	30	649
	Sub Total	216	4,659	223	4,823
Jailhouse T2 12/16/20 MVA 46 kV – 12.47 kV	JH502	382	8,252	405	8,752
	JH504	145	3,136	170	3,663
	JH506	6	124	30	649
	Sub Total	527	11,389	575	12,415
College (2) 12/16/120 MVA 46 kV – 12.47 kV	CO Circuits	-	-	-	-
	-	-	-	-	-
	Sub Total	-	-	-	-
Total	Amps	2,131	-	2,286	-
	kVA	-	46,019	-	49,376

The following table shows approximate transformer loading. The College Substation transformers are not included in the Total City numbers due to College Substation currently being out of service. When College Substation will be put back into service is unknown at this time. Loading on most transformers is at an acceptable level. It is not anticipated that new substations will be required over the next five years.

The Provo River transformer is out of capacity according to nameplate rating during peak load when Snake Creek Hydro generation is off. Transformer fans have been added that are not reflected on the nameplate which increases the transformer capacity, but it is unknown by how much. The Provo River transformer will need to be upgraded to a larger transformer. Until this can happen, Heber Light & Power may be able to decrease the load on the Provo River transformer by moving load to Midway circuits. This would only be a temporary solution.

Substation Transformer	2018		2022	
	%Base	%Total	%Base	%Total
Midway Transformer 10/12.5/14 MVA 46 kV – 12.47 kV	74%	53%	76%	54%
Provo River 5 MVA (with fans) 46 kV – 12.47 kV	112%	112%	115%	115%
Heber T1 12/16/20 MVA 46 kV – 12.47 kV	70%	42%	78%	47%
Heber T2 12/16/20 MVA 46 kV – 12.47 kV	46%	28%	51%	31%
Cloyes 7.5 MVA 46 kV – 4.16 kV	41%	33%	43%	35%
Jailhouse T1 10 MVA 46 kV – 12.47 kV	47%	33%	48%	34%
Jailhouse T2 10/12.5/14 MVA 46 kV – 12.47 kV	95%	57%	103%	62%
College (2) 12/16/120 MVA 46 kV – 12.47 kV	0%	0%	0%	0%
Total City (Not Counting College)	70%	47%	75%	50%

Proposed Improvements

Proposed system improvements are summarized by year in the following tables. A brief description and explanation of each improvement are given. A system map showing proposed improvements is in the appendix. For a more detailed explanation of load flow results see the Load Flow – Outage Cases section of the report.

Proposed System Improvements		
Proposed Improvement	Reason/Explanation	Approximate Cost
1. Install a larger 12/16/20 MVA transformer at Provo River substation.	<p>Provo River transformer is out of capacity according to nameplate rating during peak load when Snake Creek Hydro generation is off. Transformer fans have been added that are not reflected on the nameplate which increases the transformer capacity, but it is unknown by how much.</p> <p>During an outage of Midway transformer the Provo River transformer needs to have more capacity in order to be able to restore power to MW101 and MW102 circuits.</p> <p>It is proposed to replace the transformer with a larger 12/16/20 MVA transformer.</p>	\$2,717,516
2. Rebuild part of PR201 circuit with 477 ACSR conductor to improve capacity and help reduce voltage drop.	<p>During an outage of Midway transformer upgrades to PR201 circuit are needed to be able to restore power to MW101 and MW102 circuits. This upgrade will improve capacity and help reduce voltage drop.</p> <p>It is proposed to upgrade PR201 from Provo River substation to approximately 600 East Main Street. Existing conductor is 4/0 ACSR and it is proposed to upgrade to 477 ACSR.</p>	\$126,679
3. Rebuild part of PR201 circuit with 477 ACSR conductor to improve capacity and help reduce voltage drop.	<p>When Snake Creek Hydro generation is off, part of the PR201 main truck line is overloaded during peak load.</p> <p>During an outage of Midway transformer upgrades to PR201 circuit are needed to be able to restore power to MW101 and MW102 circuits. This upgrade will improve capacity and help reduce voltage drop.</p> <p>It is proposed to upgrade PR201 along River Road from Main Street to Burgi Lane. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.</p>	\$184,357
4. Rebuild part of CL402 circuit with 477 ACSR conductor to improve capacity and help reduce voltage drop.	<p>During an outage of Midway transformer upgrades to circuit CL402 are needed so that circuit CL402 can be used to restore power to circuit MW104.</p> <p>During an outage of Cloyes transformer upgrades to circuit CL402 are needed so that circuit HB303 can be used to restore power to circuit CL402.</p> <p>It is proposed to upgrade CL402 from Cloyes substation to Tate Lane Hwy 113, from 1900 South Casperville Road to 2400 South 2650 West and from 600 West 800 South to 600 West 1000 South. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.</p>	\$544,036

Proposed System Improvements		
Proposed Improvement	Reason/Explanation	Approximate Cost
5. Rebuild part of MW101 and MW102 circuits with 477 ACSR conductor to improve capacity and help reduce voltage drop.	<p>During an outage of Provo River transformer upgrades to circuit MW101 are needed so that circuit MW101 can be used to restore power to circuit PR201.</p> <p>It is proposed to upgrade MW101 from Midway substation to Main Street Center Street. Existing conductor is 4/0 ACSR and it is proposed to upgrade to 477 ACSR.</p> <p>It is proposed to upgrade MW101 and MW102 circuits from 220 W Main Street to 300 East Main Street. Existing conductor is 4/0 ACSR and it is proposed to upgrade to 477 ACSR.</p> <p>It is proposed to upgrade MW102 circuit from 300 W Main Street to 200 N 300 W. Existing conductor is 4/0 ACSR and it is proposed to upgrade to 477 ACSR.</p>	\$348,874
6. Install line voltage regulators on JH502 circuit	<p>Model shows voltage issues at the end of JH502 circuit during peak load (4% drop).</p> <p>Propose to install line voltage regulators on JH502 at approximately 8000 East Lake Creek Road.</p>	\$94,600
7. Rebuild part of HB305 circuit with 477 ACSR conductor to improve capacity.	<p>During an outage of Heber T1 transformer upgrades to circuit HB305 are needed so that circuit HB305 can be used to restore power to circuit HB303.</p> <p>It is proposed to upgrade HB305 circuit from 600 W 200 S to 600 W 300 S. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.</p>	\$23,058
8. Rebuild part of JH501 circuit with 1100 kcmil underground cable to improve capacity.	<p>During an outage of Jailhouse T2 transformer upgrades to circuit JH501 are needed so that circuit JH501 can be used to restore power to circuit JH504.</p> <p>It is proposed to upgrade JH501 circuit from 1500 S Providence Drive to 450 E 1500 S. Existing conductor is 4/0 underground cable and it is proposed to upgrade to 1100 kcmil underground cable.</p>	\$72,245
9. Rebuild part of JH502 and JH503 circuits with 1100 kcmil underground cable to improve capacity.	<p>During an outage of Jailhouse T2 transformer upgrades to circuits JH502 and JH503 are needed so that circuit JH503 can be used to restore power to half of circuit JH502. Power to the other half of JH502 circuit can be restored by circuit HB304.</p> <p>It is proposed to upgrade JH502 and JH503 circuits from 800 South Old Mill Drive to 2200 South Old Mill Drive Mill Drive. Existing conductor is #2 underground cable and it is proposed to upgrade to 1100 kcmil underground cable.</p>	\$299,189
	Total	\$4,410,554

Potential New Substation

This study covers the next five years. Looking past that another 5 years shows that it may be necessary to add an additional substation to the east of Jailhouse substation within the next 10 years. The need for the additional new substation is beyond the five years considered in this study so specific details of what would be required have not been determined. It should be noted that locations for a potential new substation and 46 kV line routes to feed it should be considered well in advance of its need. This will allow Heber time to purchase substation land, obtain necessary line easements, and plan financially. Also substation and transmission line projects can take significant time from start to finish due to material lead times and permitting requirements.

System Power Factor

Heber Light & Power power factor for each circuit is shown below. Keeping a high power factor helps support voltage during system peak loading and during outage conditions. The need for power factor correction becomes more important as transformer and line loading levels increase. Improving power factor also reduces system losses. Heber Light & Power power factor is currently at acceptable levels.

Substation Transformer	Recloser	Power Factor
Midway Transformer	MW101	0.98
	MW102	0.97
	MW104	0.93
Provo River	PR201	0.98
	PR202	0.98
Heber T1	HB302	0.74 (Assumed 0.95 without generation)
	HB303	0.95
Heber T2	HB304	0.99
	HB305	0.98
Cloyes	CL401	0.87
	CL402	0.95
	CL403	-
Jailhouse T1	JH501	0.98
	JH503	0.97
	JH505	Assumed 0.97
Jailhouse T2	JH502	0.96
	JH504	0.95
	JH506	Assumed 0.97
College	CO Circuits	-

Load Flow – Outage Cases

Loss of substation transformers and reclosers was considered. Load flows were ran with substation transformers taken out of service one at a time. Loads from the transformer that was out of service were transferred to adjacent transformers or substations. Doing this also covered the case of a failed recloser since similar load switching would be required. Loss of important distribution lines was also considered. In a few outage cases, it became apparent that system improvements were necessary. The table below lists the results and discusses required system improvements. Results are based on projected peak (summer) load levels. During winter load levels the outages would not have as great of an effect.

Failures of a 46 kV transmission line or loss of Heber Light & Power generation was considered in a separate report.

The Comments/Results column of the following tables lists ways to restore load during a line or transformer outage. It also discusses proposed solutions if the outage creates problems. In some cases more than one option of restoring load could be possible. Heber may have developed load transfer schemes that differ from the ones shown.

2018 Outage Cases	Comments/Results
Midway Outage Conditions	<p>Midway transformer out of service:</p> <p>MW104 circuit can be picked up by CL402 circuit. Line is nearing ampacity. There are voltage issues at the end of the line (almost 6% drop).</p> <p>Power cannot be restored to MW101 and MW102 circuits. MW101 and MW102 connect to PR201, but Provo River transformer and PR201 lines would be overloaded. MW101 connects to CL402, but CL402 lines would be overloaded.</p>
Midway Proposed Solutions	<p>It is proposed to replace the Provo River transformer with a larger 12/16/20 MVA transformer.</p> <p>It is proposed to upgrade PR201 circuit from Provo River substation to approximately 600 East Main Street. Existing conductor is 4/0 ACSR and it is proposed to upgrade to 477 ACSR.</p> <p>It is proposed to upgrade PR201 circuit along River Road from Main Street to Burgi Lane. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.</p> <p>It is proposed to upgrade CL402 from Cloyes substation to Tate Lane Hwy 113. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.</p> <p>It is proposed to upgrade MW101 and MW102 circuits from 220 West Main Street to 300 East Main Street. Existing conductor is 4/0 ACSR and it is proposed to upgrade to 477 ACSR.</p> <p>It is proposed to upgrade MW102 circuit from 300 West Main Street to 200 North 300 West. Existing conductor is 4/0 ACSR and it is proposed to upgrade to 477 ACSR.</p>

2018 Outage Cases	Comments/Results
Provo River Outage Conditions	<p>Provo River transformer is out of capacity according to nameplate rating during peak load when Snake Creek Hydro generation is off. Transformer fans have been added that are not reflected on the nameplate which increases the transformer capacity, but it is unknown by how much.</p> <p>When Snake Creek Hydro generation is off, part of the PR201 main truck line is overloaded during peak load.</p> <p>Model shows voltage issues at the end of PR201 circuit (almost 7% drop) when Snake Creek generation is off. When generation is on the voltage is better, but there are still issues.</p> <p>Provo River transformer out of service:</p> <p>PR201 circuit can be picked up by MW101 circuit. Line is nearing ampacity. There are voltage issues at the end of the line (almost 7% drop).</p> <p>PR201 also connects to MW102, but it would overload lines and have voltage issues (over 5%).</p> <p>PR202 circuit can be picked up by MW101 circuit.</p>
Provo River Proposed Solutions	<p>Provo River transformer will need to be replaced. It is proposed to replace the transformer with a larger 12/16/20 MVA transformer.</p> <p>Until the transformer can be replaced, Heber Light & Power may be able to move some load to Midway circuits to help reduce the load on the Provo River transformer. This is only a temporary solution.</p> <p>It is proposed to upgrade PR201 circuit along River Road from Main Street to Burgi Lane. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.</p> <p>It is proposed to upgrade MW101 circuit from Midway substation to 300 East Main Street. Existing conductor is 4/0 ACSR and it is proposed to upgrade to 477 ACSR.</p>
Heber T1 Outage Conditions	<p>Heber T1 transformer out of service:</p> <p>HB302 circuit can be picked up by HB304 circuit.</p> <p>HB303 circuit can be picked up by HB305 circuit. One line section of #2 ACSR is approximately at capacity. By 2022 it will be over capacity.</p>
Heber T1 Proposed Solutions	<p>It is proposed to upgrade HB305 circuit from 600 West 200 South to 600 West 300 South. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.</p>
Heber T2 Outage Conditions	<p>Heber T2 transformer out of service:</p> <p>HB304 circuit can be picked up by HB303.</p> <p>HB305 circuit can be picked up by CL403 circuit.</p>
Heber T2 Proposed Solutions	None

2018 Outage Cases	Comments/Results
Cloyes Outage Conditions	<p>Cloyes transformer out of service:</p> <p>CL401 circuit can be picked up by HB304.</p> <p>CL402 circuit can be picked up by HB303. There are voltage issues at the end of the line (5% drop).</p>
Cloyes Proposed Solutions	<p>It is proposed to upgrade CL402 circuit from Cloyes substation to 2400 South 2650 West. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.</p> <p>It is proposed to upgrade CL402 circuit from 600 West 800 South to 600 West 1000 South. Existing conductor is #2 ACSR and it is proposed to upgrade to 477 ACSR.</p>
Jailhouse T1 Outage Conditions	<p>Jailhouse T1 transformer out of service:</p> <p>JH501 circuit can be picked up by HB303.</p> <p>JH503 circuit can be picked up by CL401.</p>
Jailhouse T1 Proposed Solutions	None
Jailhouse T2 Outage Conditions	<p>Model shows voltage issues at the end of JH502 circuit during peak load (4% drop).</p> <p>JH502 load is approximately 382 amps when Lake Creek generation is off. Consider moving some load to another circuit. Possibly some load could be moved to a new JH505 or JH506 circuit. At some point in the future a new substation to the west of Jailhouse will probably be required. Much of the area currently fed by JH502 could then be fed from the new substation.</p> <p>About half of the JH502 circuit can only be fed from one direction. Loss of a line in that part of the circuit would result in loss of power that cannot be quickly restored.</p> <p>Jailhouse T2 transformer out of service:</p> <p>The top half of JH502 circuit can be picked up by HB304. The bottom half can be picked up by JH503. No single circuit can pick up the entire JH502 circuit. Part of JH502 and JH503 circuits will be overloaded. The bottom half of JH502 circuit picked up by JH503 circuit has voltage issues unless line voltage regulators are installed.</p> <p>JH504 circuit can be picked up by JH501. A portion of the line is at ampacity and will be overloaded by 2022.</p>
Jailhouse T2 Proposed Solutions	<p>Propose to install line voltage regulators on JH502 at approximately 8000 East Lake Creek Road.</p> <p>It is proposed to upgrade JH502 and JH503 circuits from 800 South Old Mill Drive to 2200 South Old Mill Drive Mill Drive. Existing conductor is #2 underground cable and it is proposed to upgrade to 1100 kcmil underground cable.</p> <p>It is proposed to upgrade JH501 circuit from 1500 South Providence Drive to 450 East 1500 South. Existing conductor is 4/0 underground cable and it is proposed to upgrade to 1100 kcmil underground cable.</p>
College Outage Conditions	College Substation is currently not in service. In the future a portion of HB302 circuit may be able to be fed from College substation.

2018 Outage Cases	Comments/Results
College Proposed Solutions	None

2022 Outage Cases (After Upgrades)	Comments/Results
Midway Outage Conditions	Midway transformer out of service: MW104 circuit can be picked up by CL402 circuit. MW101 and MW102 circuits can be picked up by PR201.
Midway Proposed Solutions	None
Provo River Outage Conditions	Provo River transformer out of service: PR201 circuit can be picked up by MW101 circuit. PR202 circuit can be picked up by MW101 circuit.
Provo River Proposed Solutions	None
Heber T1 Outage Conditions	Heber T1 transformer out of service: HB302 circuit can be picked up by HB304 circuit. HB303 circuit can be picked up by HB305 circuit.
Heber T1 Proposed Solutions	None
Heber T2 Outage Conditions	Heber T2 transformer out of service: HB304 circuit can be picked up by HB303. HB305 circuit can be picked up by CL403 circuit.
Heber T2 Proposed Solutions	None
Cloyes Outage Conditions	Cloyes transformer out of service: CL401 circuit can be picked up by HB304. CL402 circuit can be picked up by HB303.
Cloyes Proposed Solutions	None
Jailhouse T1 Outage Conditions	Jailhouse T1 transformer out of service: JH501 circuit can be picked up by HB303. JH503 circuit can be picked up by CL401. It is assumed that JH505 circuit will tie into the rest of the system and be able to be backed up, but details are not known at this time.
Jailhouse T1 Proposed Solutions	None

2022 Outage Cases (After Upgrades)	Comments/Results
Jailhouse T2 Outage Conditions	<p>JH502 load is approximately 405 amps when Lake Creek generation is off. Consider moving some load to another circuit. Possibly some load could be moved to a new JH505 or JH506 circuit. At some point in the future a new substation to the west of Jailhouse will probably be required. Much of the area currently fed by JH502 could then be fed from the new substation.</p>
	<p>About half of the JH502 circuit can only be fed from one direction. Loss of a line in that part of the circuit would result in loss of power that cannot be quickly restored.</p>
	<p>Jailhouse T2 transformer out of service:</p> <p>The top half of JH502 circuit can be picked up by HB304. The bottom half can be picked up by JH503. No single circuit can pick up the entire JH502 circuit.</p> <p>JH504 circuit can be picked up by JH501.</p> <p>It is assumed that JH506 circuit will tie into the rest of the system and be able to be backed up, but details are not known at this time.</p>
Jailhouse T2 Proposed Solutions	None
College Outage Conditions	College Substation is currently not in service. In the future a portion of HB302 circuit may be able to be fed from College substation.
College Proposed Solutions	None

SYSTEM MODELING

To perform a comprehensive load flow, fault analysis, and protective device coordination study, system computer modeling is necessary. System modeling data was developed from Heber Light & Power provided system data. The model is based on the assumption that provided transformer data, generator data, system maps and data (conductor sizes, system configurations, line lengths, etc.) are reflective of actual field conditions.

Overhead and underground distribution circuit impedance values as developed for this study are presented in tables shown below. Transformer and generator data is also shown below. Detailed model input data is shown in the appendix.

Heber Light & Power - 12.47 kV Overhead						
Conductor Size	Ampacity (Amps)	Z(+) Ohms/1000'		Z(0) Ohms/1000'		1/2 Bpu mmho/1000'
		R	X	R	X	
#8 CU	90	0.71972	0.15564	0.83921	0.56057	0.00000
#6 CU	130	0.41860	0.14619	0.55504	0.50731	0.00000
#4 CU	180	0.26297	0.16106	0.39011	0.47674	0.00000
#4	140	0.42430	0.14280	0.56133	0.50536	0.00000
#2 CU	230	0.16695	0.13922	0.28220	0.41123	0.00000
#2	180	0.26712	0.13784	0.40331	0.45241	0.00000
4/0	340	0.08369	0.12443	0.16195	0.35568	0.00000
477 AAC	646	0.03756	0.15419	0.07778	0.39644	0.00000

Heber Light & Power - 12.47 kV Underground						
Conductor Size	Ampacity (Amps)	Z(+) Ohms/1000'		Z(0) Ohms/1000'		1/2 Bpu mmho/1000'
		R	X	R	X	
#2	130	0.35100	0.05700	0.66900	0.22000	0.00841
4/0	255	0.11000	0.04700	0.32400	0.09600	0.01271
500	415	0.04700	0.04400	0.14900	0.03700	0.01634
750	510	0.03010	0.04090	0.19400	0.06000	0.02541
1000	585	0.02270	0.03700	0.15000	0.04000	0.02600
1100	620	0.02280	0.03880	0.11400	0.03000	0.02782

Heber Light & Power – Substation Transformer Data			
Transformer	MVA Rating	Voltage Rating	%Z @ Nominal
Midway	10/12.5/14 MVA	46-12.47 kV Delta-Gnd-Y	Z1 = 7.91%
Provo River	5 MVA (with fans)	46-12.47 kV Delta-Gnd-Y	Z1 = 6.55%
Heber T1	12/16/20 MVA	46-12.47 kV Delta-Gnd-Y	Z1 = 7.7%
Heber T2	12/16/20 MVA	46-12.47 kV Delta-Gnd-Y	Z1 = 7.05%
Cloyes	7.5/9.375 MVA	46-12.47 kV Delta-Gnd-Y	Z1 = 7.7%
Jailhouse T1	10/12.5/14 MVA	46-12.47 kV Delta-Gnd-Y	Z1 = 8.15%
Jailhouse T2	12/16/20 MVA	46-12.47 kV Delta-Gnd-Y	Z1 = 8.12%
College T1	12/16/20 MVA	46-12.47 kV Delta-Gnd-Y	Z1 = 7.67%
College T2	12/16/20 MVA	46-12.47 kV Delta-Gnd-Y	Z1 = 7.67%

Generator	Generator Rating	System Connection
Snake Creek Hydro	1.98 MW	To circuit PR201 at 12.47 kV
Lake Creek Hydro	1.5 MW	To Circuit JH502 at 12.47 kV
Jordanelle Hydro	13 MW	To Circuit HB302 at 12.47 kV
Heber Plant	13.756 MW	To 46 kV System

APPENDICES

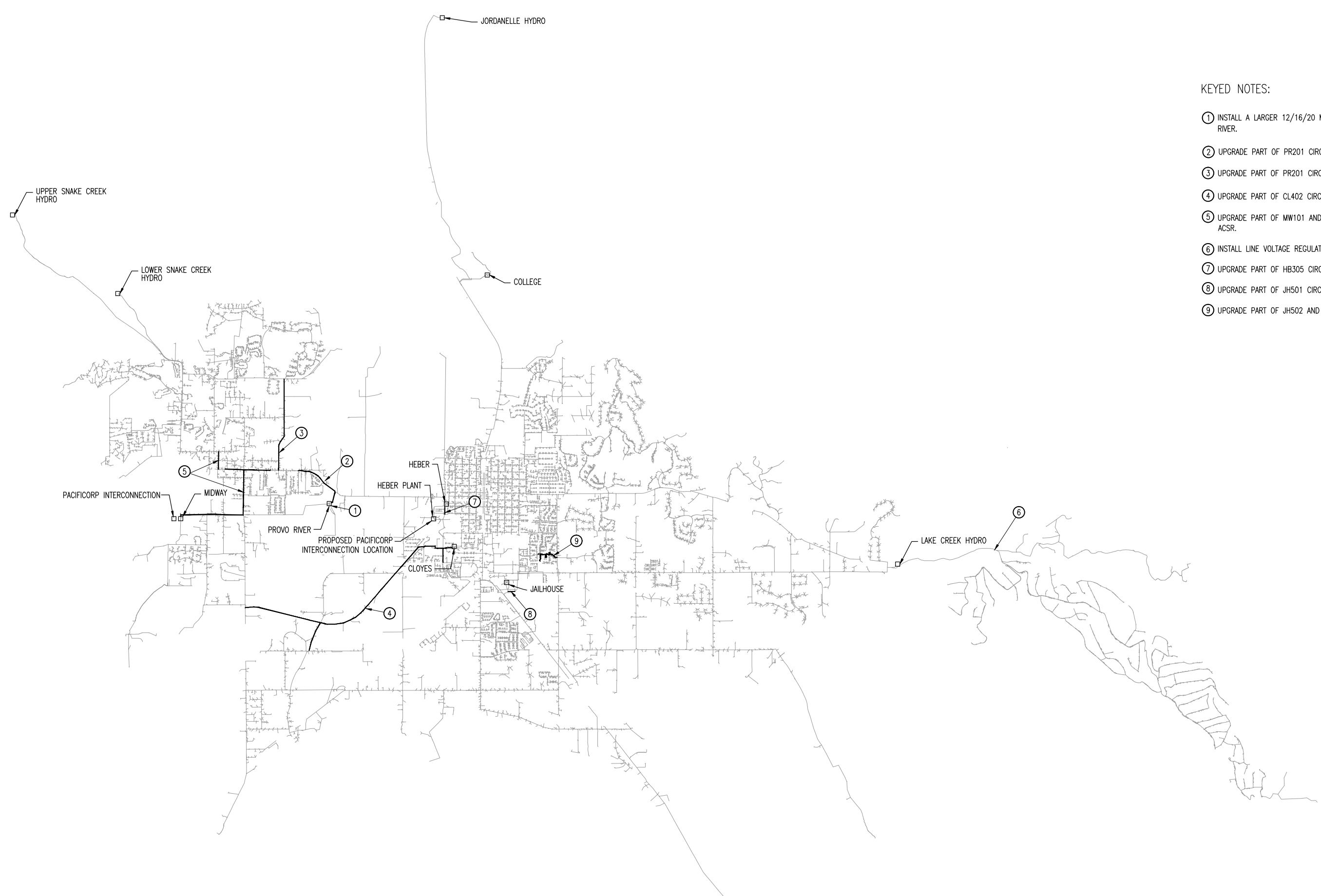
1. System Map
2. Cost Estimates
3. Load Flow Studies
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APPENDIX 1 – SYSTEM MAP



KEYED NOTES:

- ① INSTALL A LARGER 12/16/20 MVA TRANSFORMER AT PROVO RIVER.
- ② UPGRADE PART OF PR201 CIRCUIT TO 477 ACSR.
- ③ UPGRADE PART OF PR201 CIRCUIT TO 477 ACSR.
- ④ UPGRADE PART OF CL402 CIRCUIT TO 477 ACSR.
- ⑤ UPGRADE PART OF MW101 AND MW102 CIRCUITS TO 477 ACSR.
- ⑥ INSTALL LINE VOLTAGE REGULATORS ON JH502 CIRCUIT.
- ⑦ UPGRADE PART OF HB305 CIRCUIT TO 477 ACSR.
- ⑧ UPGRADE PART OF JH501 CIRCUIT TO 1100 kcmil.
- ⑨ UPGRADE PART OF JH502 AND JH503 CIRCUITS TO 750 kcmil.



 <p>Intermountain Consumer Professional Engineers, Inc. CONSULTING ENGINEERS 1445 E. SOUTH UTAH AVE. MIDWATER, UTAH 84407 BUS. (801) 285-1111 FAX 800-0088</p>		Title: HEBER LIGHT & POWER																																
CONFIDENTIAL		ELECTRICAL 12.47kV SYSTEM STUDY PROPOSED IMPROVEMENTS																																
THE DRAWINGS, DESIGNS, IDEAS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED ARE THE SOLE PROPERTY OF INTERMOUNTAIN CONSUMER PROFESSIONAL ENGINEERS, INC. (ICPE), AND ARE SUBJECT TO THE COPYRIGHT OF ICPE OR ITS ASSIGNS. THEY WERE CREATED, EVOLVED AND DEVELOPED EXCLUSIVELY FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. ANY USE OF THE DRAWINGS, DESIGNS, MATERIAL OR INFORMATION CONTAINED HEREIN, INCLUDING COPYING, WHICH IS NOT EXPRESSLY AUTHORIZED BY ICPE, IS STRICTLY PROHIBITED AS AN INFRINGEMENT OF ITS COPYRIGHT AND MAY RESULT IN LIABILITY. © ICPE 2015		<table border="1"> <tr> <td>No.</td> <td>Description</td> <td>By</td> <td>Date</td> <td>App.</td> <td>Chk.</td> <td>Date</td> <td>App.</td> <td>Scale</td> </tr> <tr> <td>A</td> <td>PROPOSED IMPROVEMENTS</td> <td>RF</td> <td>09/13/18</td> <td>CBM</td> <td>Dwn.</td> <td>RF</td> <td>Date 09/13/18</td> <td>Engr. MTF Date 09/13/18</td> </tr> <tr> <td colspan="9"> <table border="1"> <tr> <td>Proj. No:</td> <td>034-031</td> <td>Scale:</td> <td>NONE</td> </tr> </table> </td> </tr> </table>		No.	Description	By	Date	App.	Chk.	Date	App.	Scale	A	PROPOSED IMPROVEMENTS	RF	09/13/18	CBM	Dwn.	RF	Date 09/13/18	Engr. MTF Date 09/13/18	<table border="1"> <tr> <td>Proj. No:</td> <td>034-031</td> <td>Scale:</td> <td>NONE</td> </tr> </table>									Proj. No:	034-031	Scale:	NONE
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		E110	A																															

9/17/18 rfrander 034-031_E110.DWG

APPENDIX 2 – COST ESTIMATES

COST ESTIMATE

PROJECT: Provo River Substation - Map ID 1						DATE PREPARED: 1/31/2019		
DESCRIPTION:						BASIS FOR ESTIMATE		
ENGINEER : ICPE						CODE A (Schematic Design)		
						CODE B (Preliminary Design)		
						CODE C (Final Design) 100%		
						OTHER--Conceptual Configuration		
ESTIMATOR: Mac Fillingim						CHECKED: Craig Michaelis		
DESCRIPTION		QUANTITY		Avg. Labor Rate: \$100.00		MATERIAL (\$)		TOTAL ESTIMATE
NO. UNITS	UNIT MEAS	PER UNIT	TOTAL Man Hr.	TOTAL LABOR (\$)	PER UNIT	TOTAL MATERIAL	TOTAL ESTIMATE	
Major Equipment								
46 kV - 12.47kV Transformer 20/26.67/33.33 MVA w/LTC	1	EA	80	80.00	\$8,000.00	\$700,000.00	\$700,000.00	\$708,000.00
46 kV Breaker	1	EA	45	45.00	\$4,500.00	\$55,500.00	\$55,500.00	\$60,000.00
46 kV Group Operated Switch	1	EA	60	60.00	\$6,000.00	\$12,000.00	\$12,000.00	\$18,000.00
46 kV Disconnect Switch	6	EA	12	72.00	\$7,200.00	\$2,500.00	\$15,000.00	\$22,200.00
15 kV Reclosers	3	EA	32	96.00	\$9,600.00	\$25,000.00	\$75,000.00	\$84,600.00
15 kV Group Operated Switch	1	EA	40	40.00	\$4,000.00	\$7,500.00	\$7,500.00	\$11,500.00
							Total	\$904,300.00
Metering / Relaying / SCADA								
15 kV Metering (PTs & CTs)	1	LS	40	40.00	\$4,000.00	\$18,000.00	\$18,000.00	\$22,000.00
Relay Panel - Transformer Diff (Installation & Wire Terminations)	1	LS	80	80.00	\$8,000.00	\$35,000.00	\$35,000.00	\$43,000.00
Relay Panel - Recloser Control (Installation & Wire Terminations)	2	LS	100	200.00	\$20,000.00	\$30,000.00	\$60,000.00	\$80,000.00
Relay Panel - Meter Panel (Installation & Wire Terminations)	1	LS	40	40.00	\$4,000.00	\$20,000.00	\$20,000.00	\$24,000.00
SCADA Equipment & Programming	1	LS	200	200.00	\$20,000.00	\$75,000.00	\$75,000.00	\$95,000.00
							Total	\$264,000.00
Steel Structures								
46 kV Deadend Structure	1	EA	40.00	40.00	\$4,000.00	\$29,700.00	\$29,700.00	\$33,700.00
46 kV Switch Structure	1	EA	16.00	16.00	\$1,600.00	\$12,375.00	\$12,375.00	\$13,975.00
15 kV Metering Structure	1	EA	16.00	16.00	\$1,600.00	\$8,250.00	\$8,250.00	\$9,850.00
15 kV Switch Structure	1	EA	16.00	16.00	\$1,600.00	\$4,193.75	\$4,193.75	\$5,793.75
15 kV Recloser Structure	3	EA	16.00	48.00	\$4,800.00	\$4,950.00	\$14,850.00	\$19,650.00
Static Wire Pole	1	EA	8.00	8.00	\$800.00	\$7,975.00	\$7,975.00	\$8,775.00
Switch Platform	2	EA	4.00	8.00	\$800.00	\$1,100.00	\$2,200.00	\$3,000.00
							Total	\$94,743.75
Concrete Foundations								
46 kV Deadend Structure	2	EA	16	32.00	\$3,200.00	\$6,270.00	\$12,540.00	\$15,740.00
15 kV Switch Structure	2	EA	8	16.00	\$1,600.00	\$2,640.00	\$5,280.00	\$6,880.00
15 kV Recloser Structure	3	EA	8	24.00	\$2,400.00	\$2,860.00	\$8,580.00	\$10,980.00
Static Wire Pole	1	EA	4	4.00	\$400.00	\$4,730.00	\$4,730.00	\$5,130.00
Transformer Containment	1	EA	80	80.00	\$8,000.00	\$99,400.00	\$99,400.00	\$107,400.00
46 kV Breaker Pad	1	EA	8	8.00	\$800.00	\$4,200.00	\$4,200.00	\$5,000.00
Control Building	1	EA	24	24.00	\$2,400.00	\$14,000.00	\$14,000.00	\$16,400.00
							Total	\$167,530.00
Control Building								
Prefabricated Control Building	1	EA	80	80.00	\$8,000.00	\$67,200.00	\$67,200.00	\$75,200.00
Control Building Equipment	1	LS	16	16.00	\$1,600.00	\$12,500.00	\$12,500.00	\$14,100.00
125 VDC Battery System	1	EA	32	32.00	\$3,200.00	\$18,000.00	\$18,000.00	\$21,200.00
Control Building AC Systems	1	LS	80	80.00	\$8,000.00	\$11,750.00	\$11,750.00	\$19,750.00
							Total	\$130,250.00
Substation Bus & Material								
46 kV Bus & Fittings	1	LS	80	80.00	\$8,000.00	\$25,000.00	\$25,000.00	\$33,000.00
15 kV Bus & Fittings	1	LS	240	240.00	\$24,000.00	\$50,000.00	\$50,000.00	\$74,000.00
Recloser Bypass Switches	18	EA	4	72.00	\$7,200.00	\$800.00	\$14,400.00	\$21,600.00
Recloser Fused Switches	9	EA	4	36.00	\$3,600.00	\$2,100.00	\$18,900.00	\$22,500.00
Station Lightning Protection	1	LS	32	32.00	\$3,200.00	\$2,500.00	\$2,500.00	\$5,700.00
46 kV Lightning Arresters	3	EA	4	12.00	\$1,200.00	\$1,500.00	\$4,500.00	\$5,700.00
9 kV Lightning Arresters	9	EA	1	9.00	\$900.00	\$500.00	\$4,500.00	\$5,400.00
							Total	\$167,900.00
Substation Conduit & Cable								
600 Volt Conduit & Cable	1	LS	240	240.00	\$24,000.00	\$32,500.00	\$32,500.00	\$56,500.00
15 kV 6" Conduit (15 kV cable not included)	1	LS	120	160.00	\$16,000.00	\$17,750.00	\$17,750.00	\$33,750.00
Station Service (Transformer, Disconnect, Conduit/Cable)	1	LS	60	60.00	\$6,000.00	\$17,500.00	\$17,500.00	\$23,500.00
							Total	\$113,750.00
Substation Grounding								
Station Ground Grid	1	LS	320	320.00	\$32,000.00	\$50,000.00	\$50,000.00	\$82,000.00
							Total	\$82,000.00
Substation Site Work								
Site Grubbing & Fill	1	LS	80	80.00	\$8,000.00	\$25,000.00	\$25,000.00	\$33,000.00
Site Surface gravel	1	LS	80	80.00	\$8,000.00	\$15,000.00	\$15,000.00	\$23,000.00
Site Roads	1	LS	40	40.00	\$4,000.00	\$12,000.00	\$12,000.00	\$16,000.00
Substation Fence (Chain Link)	1	LS	80	80.00	\$8,000.00	\$30,000.00	\$30,000.00	\$38,000.00
Substation Land	0	LS	0	0.00	\$0.00	\$0.00	\$0.00	\$0.00
							Total	\$110,000.00
Demolition								
Demolition and Removal of existing equipment	1	LS	450	450.00	\$45,000.00	\$0.00	\$0.00	\$45,000.00
							Total	\$45,000.00
Miscellaneous								
Contractor Mobilization	1	LS	0	0.00	\$0.00	\$10,000.00	\$10,000.00	\$10,000.00
Contractor Bonding	1	LS	0	0.00	\$0.00	\$7,000.00	\$7,000.00	\$7,000.00
Substation Testing & Commissioning	1	LS	0	0.00	\$0.00	\$55,000.00	\$55,000.00	\$55,000.00
							Total	\$72,000.00
Subtotals			3,492.0	\$349,200.00		\$1,802,273.75		
Subtotal Labor + Material								\$2,151,473.75
Equipment								\$48,888.00
Contingency (10%)								\$220,036.18
Engineering								\$125,000.00
Tax (8%)								\$172,117.90
TOTAL ESTIMATE								\$2,717,515.83

- Notes:
- 1 - Foundation estimate is based on the site having good soil conditions without water.
 - 2 - Incoming 46 kV Line & 15kV Distribution Circuits are not included.
 - 3 - Costs shown are as of 1/31/19. Market conditions are volatile and can have a significant impact on actual costs at the time on construction.
 - 4 - Estimate assumes the substation land is owned by the City and initial site grading has been completed.

COST ESTIMATE					DATE PREPARED: 1/31/2019			
PROJECT: Upgrade PR201 Circuit - Map ID 2					BASIS OF ESTIMATE:			
DESCRIPTION: Cost Estimate Summary					CODE A - (Schematic Design) CODE B - (Preliminary Design) CODE C - (Final Design) 100%			
ENGINEER: Mac Fillingim					OTHER - Conceptual Configuration			
			ESTIMATOR: Mac Fillingim		CHECKED: Craig Michaelis			
DESCRIPTION	QUANTITY		LABOR			MATERIAL \$		TOTAL COST (\$)
	QTY	UNIT	UNIT MH ⁽⁵⁾	TOTAL MH	TOTAL LABOR \$	PER UNIT	TOTAL MATERIAL	
477 ACSR Dist Phase	12,645	Ft.	0.025	316.13	\$31,612.50	\$0.95	\$12,012.75	\$43,625.25
4/0 ACSR Dist Neut	4,215	Ft.	0.020	84.30	\$8,430.00	\$0.65	\$2,739.75	\$11,169.75
Set Out Exist Dist Cond	22	EA	5.0	110.00	\$11,000.00	\$0.00	\$0.00	\$11,000.00
Remove Exist Dist Cond	4,215	Ft.	0.020	84.30	\$8,430.00	\$0.00	\$0.00	\$8,430.00
Labor Rate			\$100					
Subtotal Labor Hours/\$				594.73	\$59,472.50			\$59,472.50
Subtotal Material							\$14,752.50	\$14,752.50
Sales and Use Tax (8%)								\$5,938.00
TOTAL ESTIMATED CONSTRUCTION COST								\$80,163.00
Engineering	1	LS						\$35,000.00
CONTINGENCY	10	%						\$11,516.30
TOTAL COST ESTIMATE								\$126,679

Notes & Comments:

- 1 - The above estimate is based on preliminary information.
- 2 - No engineering has been conducted.
- 3 - Costs shown are as of 1/31/19. Market conditions are volatile and can have a significant impact on actual costs at the time on construction.
- 4 - Right of way costs are not included in cost estimate.
- 5 - Cost estimate assumes that existing wood poles are adequate for new conductor and can be reused.

COST ESTIMATE					DATE PREPARED: 1/31/2019			
PROJECT: Upgrade PR201 Circuit - Map ID 3					BASIS OF ESTIMATE:			
DESCRIPTION: Cost Estimate Summary					CODE A - (Schematic Design) CODE B - (Preliminary Design) CODE C - (Final Design) 100%			
ENGINEER: Mac Fillingim					OTHER - Conceptual Configuration			
			ESTIMATOR: Mac Fillingim		CHECKED: Craig Michaelis			
DESCRIPTION	QUANTITY		LABOR			MATERIAL \$		TOTAL COST (\$)
	QTY	UNIT	UNIT MH ⁽⁵⁾	TOTAL MH	TOTAL LABOR \$	PER UNIT	TOTAL MATERIAL	
477 ACSR Dist Phase	20,955	Ft.	0.025	523.88	\$52,387.50	\$0.95	\$19,907.25	\$72,294.75
4/0 ACSR Dist Neut	6,985	Ft.	0.020	139.70	\$13,970.00	\$0.65	\$4,540.25	\$18,510.25
Set Out Exist Dist Cond	36	EA	5.0	180.00	\$18,000.00	\$0.00	\$0.00	\$18,000.00
Remove Exist Dist Cond	6,985	Ft.	0.020	139.70	\$13,970.00	\$0.00	\$0.00	\$13,970.00
Labor Rate			\$100					
Subtotal Labor Hours/\$				983.28	\$98,327.50			\$98,327.50
Subtotal Material							\$24,447.50	\$24,447.50
Sales and Use Tax (8%)								\$9,822.00
TOTAL ESTIMATED CONSTRUCTION COST								\$132,597.00
Engineering		1 LS						\$35,000.00
CONTINGENCY		10 %						\$16,759.70
TOTAL COST ESTIMATE								\$184,357

Notes & Comments:

- 1 - The above estimate is based on preliminary information.
- 2 - No engineering has been conducted.
- 3 - Costs shown are as of 1/31/19. Market conditions are volatile and can have a significant impact on actual costs at the time on construction.
- 4 - Right of way costs are not included in cost estimate.
- 5 - Cost estimate assumes that existing wood poles are adequate for new conductor and can be reused.

COST ESTIMATE					DATE PREPARED: 1/31/2019			
PROJECT: Upgrade CL402 Circuit - Map ID 4					BASIS OF ESTIMATE:			
DESCRIPTION: Cost Estimate Summary					CODE A - (Schematic Design) CODE B - (Preliminary Design) CODE C - (Final Design) 100%			
ENGINEER: Mac Fillingim					OTHER - Conceptual Configuration			
			ESTIMATOR: Mac Fillingim		CHECKED: Craig Michaelis			
DESCRIPTION	QUANTITY		LABOR			MATERIAL \$		TOTAL COST (\$)
	QTY	UNIT	UNIT MH ⁽⁵⁾	TOTAL MH	TOTAL LABOR \$	PER UNIT	TOTAL MATERIAL	
477 ACSR Dist Phase	65,070	Ft.	0.025	1,626.75	\$162,675.00	\$0.95	\$61,816.50	\$224,491.50
4/0 ACSR Dist Neut	21,690	Ft.	0.020	433.80	\$43,380.00	\$0.65	\$14,098.50	\$57,478.50
Set Out Exist Dist Cond	80	EA	5.0	400.00	\$40,000.00	\$0.00	\$0.00	\$40,000.00
Remove Exist Dist Cond	21,690	Ft.	0.020	433.80	\$43,380.00	\$0.00	\$0.00	\$43,380.00
Labor Rate			\$100					
Subtotal Labor Hours/\$				2,894.35	\$289,435.00			\$289,435.00
Subtotal Material							\$75,915.00	\$75,915.00
Sales and Use Tax (8%)								\$29,228.00
TOTAL ESTIMATED CONSTRUCTION COST								\$394,578.00
Engineering		1 LS						\$100,000.00
CONTINGENCY		10 %						\$49,457.80
TOTAL COST ESTIMATE								\$544,036

Notes & Comments:

- 1 - The above estimate is based on preliminary information.
- 2 - No engineering has been conducted.
- 3 - Costs shown are as of 1/31/19. Market conditions are volatile and can have a significant impact on actual costs at the time on construction.
- 4 - Right of way costs are not included in cost estimate.
- 5 - Cost estimate assumes that existing wood poles are adequate for new conductor and can be reused.

COST ESTIMATE					DATE PREPARED: 1/31/2019			
PROJECT: Upgrade MW101 & MW102 Circuit - Map ID 5					BASIS OF ESTIMATE:			
DESCRIPTION: Cost Estimate Summary					CODE A - (Schematic Design) CODE B - (Preliminary Design) CODE C - (Final Design) 100%			
ENGINEER: Mac Fillingim					OTHER - Conceptual Configuration			
			ESTIMATOR: Mac Fillingim		CHECKED: Craig Michaelis			
DESCRIPTION	QUANTITY		LABOR			MATERIAL \$		TOTAL COST (\$)
	QTY	UNIT	UNIT MH ⁽⁵⁾	TOTAL MH	TOTAL LABOR \$	PER UNIT	TOTAL MATERIAL	
477 ACSR Dist Phase	39,270	Ft.	0.025	981.75	\$98,175.00	\$0.95	\$37,306.50	\$135,481.50
4/0 ACSR Dist Neut	13,090	Ft.	0.020	261.80	\$26,180.00	\$0.65	\$8,508.50	\$34,688.50
Set Out Exist Dist Cond	65	EA	5.0	325.00	\$32,500.00	\$0.00	\$0.00	\$32,500.00
Remove Exist Dist Cond	13,090	Ft.	0.020	261.80	\$26,180.00	\$0.00	\$0.00	\$26,180.00
Labor Rate			\$100					
Subtotal Labor Hours/\$				1,830.35	\$183,035.00			\$183,035.00
Subtotal Material							\$45,815.00	\$45,815.00
Sales and Use Tax (8%)								\$18,308.00
TOTAL ESTIMATED CONSTRUCTION COST								\$247,158.00
Engineering		1 LS						\$70,000.00
CONTINGENCY		10 %						\$31,715.80
TOTAL COST ESTIMATE								\$348,874

Notes & Comments:

- 1 - The above estimate is based on preliminary information.
- 2 - No engineering has been conducted.
- 3 - Costs shown are as of 1/31/19. Market conditions are volatile and can have a significant impact on actual costs at the time on construction.
- 4 - Right of way costs are not included in cost estimate.
- 5 - Cost estimate assumes that existing wood poles are adequate for new conductor and can be reused.

COST ESTIMATE					DATE PREPARED: 1/31/2019			
PROJECT: Voltage Regulators on JH502 Circuit - Map ID 6					BASIS OF ESTIMATE:			
DESCRIPTION: Cost Estimate Summary					CODE A - (Schematic Design) CODE B - (Preliminary Design) CODE C - (Final Design) 100%			
ENGINEER: Mac Fillingim					OTHER - Conceptual Configuration			
			ESTIMATOR: Mac Fillingim		CHECKED: Craig Michaelis			
DESCRIPTION	QUANTITY		LABOR			MATERIAL \$		TOTAL COST (\$)
	QTY	UNIT	UNIT MH ⁽⁵⁾	TOTAL MH	TOTAL LABOR \$	PER UNIT	TOTAL MATERIAL	
Regulators	3	EA	10.0	30.00	\$3,000.00	\$21,000.00	\$63,000.00	\$66,000.00
Structure & Switches	1	EA	20.0	20.00	\$2,000.00	\$7,000.00	\$7,000.00	\$9,000.00
Labor Rate			\$100					
Subtotal Labor Hours/\$				50.00	\$5,000.00			\$5,000.00
Subtotal Material							\$70,000.00	\$70,000.00
Sales and Use Tax (8%)								\$6,000.00
TOTAL ESTIMATED CONSTRUCTION COST								\$81,000.00
Engineering	1	LS						\$5,000.00
CONTINGENCY	10	%						\$8,600.00
TOTAL COST ESTIMATE								\$94,600

Notes & Comments:

- 1 - The above estimate is based on preliminary information.
- 2 - No engineering has been conducted.
- 3 - Costs shown are as of 1/31/19. Market conditions are volatile and can have a significant impact on actual costs at the time on construction.

COST ESTIMATE					DATE PREPARED: 1/31/2019			
PROJECT: Upgrade HB305 Circuit - Map ID 7					BASIS OF ESTIMATE:			
DESCRIPTION: Cost Estimate Summary					CODE A - (Schematic Design) CODE B - (Preliminary Design) CODE C - (Final Design) 100%			
ENGINEER: Mac Fillingim					OTHER - Conceptual Configuration			
			ESTIMATOR: Mac Fillingim		CHECKED: Craig Michaelis			
DESCRIPTION	QUANTITY		LABOR			MATERIAL \$		TOTAL COST (\$)
	QTY	UNIT	UNIT MH ⁽⁵⁾	TOTAL MH	TOTAL LABOR \$	PER UNIT	TOTAL MATERIAL	
477 ACSR Dist Phase	1,530	Ft.	0.025	38.25	\$3,825.00	\$0.95	\$1,453.50	\$5,278.50
4/0 ACSR Dist Neut	510	Ft.	0.020	10.20	\$1,020.00	\$0.65	\$331.50	\$1,351.50
Set Out Exist Dist Cond	5	EA	5.0	25.00	\$2,500.00	\$0.00	\$0.00	\$2,500.00
Remove Exist Dist Cond	510	Ft.	0.020	10.20	\$1,020.00	\$0.00	\$0.00	\$1,020.00
Labor Rate			\$100					
Subtotal Labor Hours/\$				83.65	\$8,365.00			\$8,365.00
Subtotal Material							\$1,785.00	\$1,785.00
Sales and Use Tax (8%)								\$812.00
TOTAL ESTIMATED CONSTRUCTION COST								\$10,962.00
Engineering	1	LS						\$10,000.00
CONTINGENCY	10	%						\$2,096.20
TOTAL COST ESTIMATE								\$23,058

Notes & Comments:

- 1 - The above estimate is based on preliminary information.
- 2 - No engineering has been conducted.
- 3 - Costs shown are as of 1/31/19. Market conditions are volatile and can have a significant impact on actual costs at the time on construction.
- 4 - Right of way costs are not included in cost estimate.
- 5 - Cost estimate assumes that existing wood poles are adequate for new conductor and can be reused.

COST ESTIMATE			DATE PREPARED: 1/31/19			SHEET 1 of 1		
PROJECT: Upgrade JH501 Circuit - Map ID 8						BASIS FOR ESTIMATE:		
DESCRIPTION: Cost Estimate Summary						CODE A (Schematic Design)		
ENGINEER : Mac Fillingim						CODE B (Preliminary Design)		
ESTIMATOR: Mac Fillingim						CODE C (Final Design) 100%		
						OTHER (NO DESIGN)		
						CHECKED BY: Craig Michaelis		
DESCRIPTION	QUANTITY		LABOR \$100.00			MATERIAL (\$)		TOTAL COST
	NO. UNITS	UNIT MEAS	PER UNIT	TOTAL MH	Labor (\$)	PER UNIT	TOTAL	
INSTALLATIONS								
UNDERGROUND								
Underground Primary								
600 amp Sectionalizer with (6) 1100 kcmil AL Terminations	2	EA	24.00	48.00	4,800.00	4,650.00	9,300.00	14,100.00
(2) - 6 inch PVC Conduit Ductbank	585	FT	0.03	17.55	1,755.00	9.00	5,265.00	7,020.00
Conduit Elbows & Fittings	1	LS	20.00	20.00	2,000.00	5,500.00	5,500.00	7,500.00
(3) 1100 kcmil AL Cables / Circuit	585	FT	0.03	17.55	1,755.00	27.00	15,795.00	17,550.00
Bore 6" conduit	585	FT	0.00	0.00	0.00	15.00	8,775.00	8,775.00
Remove 200 Amp Equipment	1	LS	20.00	20.00	2,000.00	0.00	0.00	2,000.00
Subtotal				123.10	12,310.00		44,635.00	
Avg. Labor Rate	100.00							
Subtotal Labor					\$12,310.00			\$12,310.00
Subtotal Material							\$44,635.00	\$44,635.00
Sales Tax Material	8.00%							\$3,570.80
Subtotal Labor, Material & Tax								\$60,515.80
Equipment & Trucks	41.03					\$ 125.00		\$5,129.17
Contingency	10.00%							\$6,600.00
TOTAL ESTIMATE								\$72,244.97

Notes & Comments:

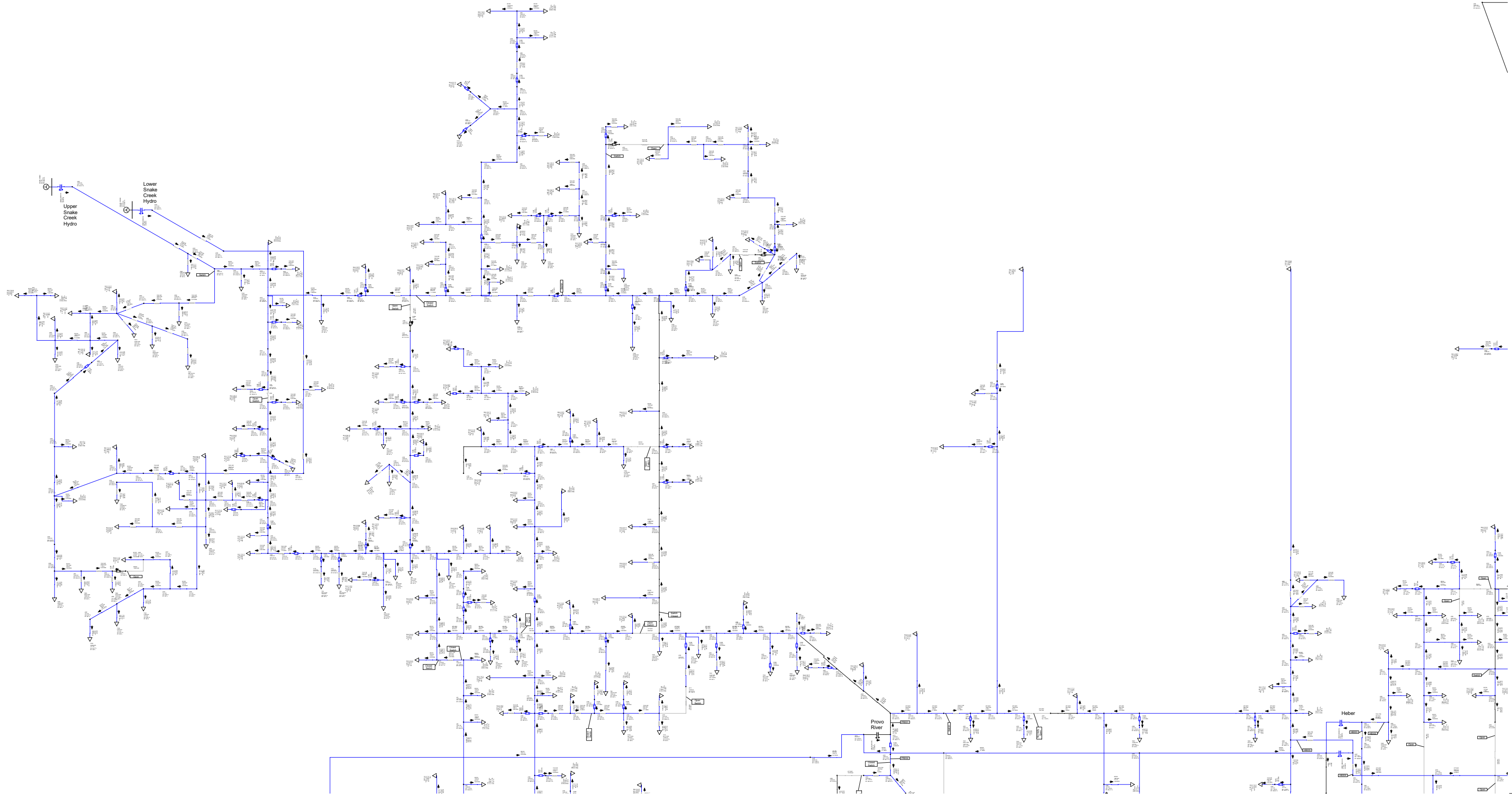
- 1 - The above estimate is based on preliminary information.
- 2 - No engineering has been conducted.
- 3 - Costs shown are as of 1/31/19. Market conditions are volatile and can have a significant impact on actual costs at the time on construction.
- 4 - Right of way costs are not included in cost estimate.

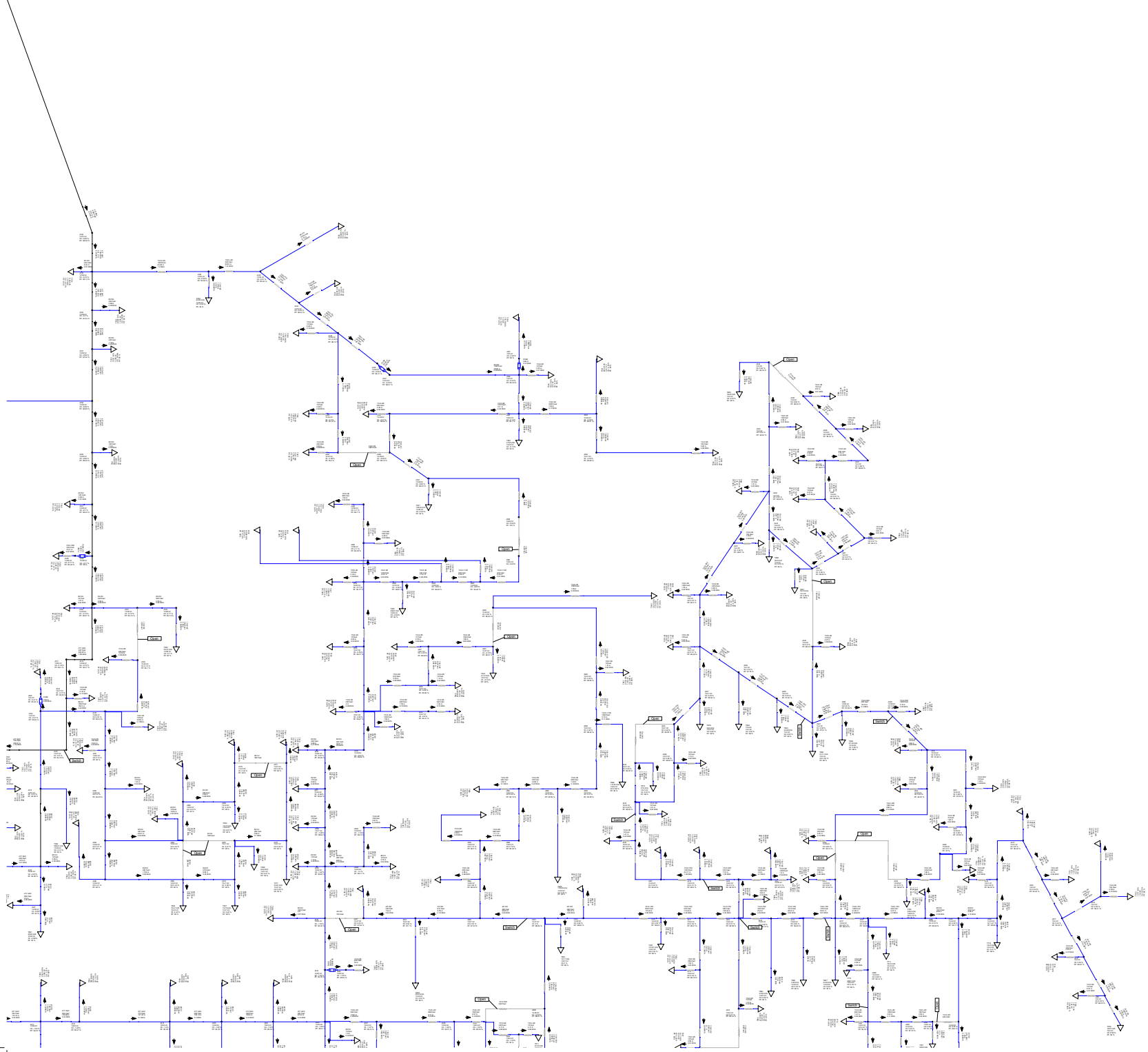
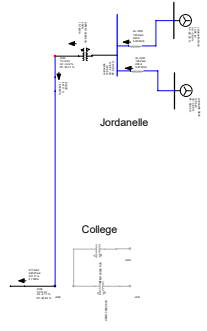
COST ESTIMATE				DATE PREPARED: 1/31/19		SHEET 1 of 1		
PROJECT: Upgrade JH502 & JH503 Circuit - Map ID 9				BASIS FOR ESTIMATE:				
DESCRIPTION: Cost Estimate Summary				CODE A (Schematic Design)				
ENGINEER : Mac Fillingim				CODE B (Preliminary Design)				
ESTIMATOR: Mac Fillingim				CODE C (Final Design) 100%				
				OTHER (NO DESIGN)				
				CHECKED BY: Craig Michaelis				
DESCRIPTION	QUANTITY		LABOR \$100.00			MATERIAL (\$)		TOTAL COST
	NO. UNITS	UNIT MEAS	PER UNIT	TOTAL MH	Labor (\$)	PER UNIT	TOTAL	
INSTALLATIONS								
UNDERGROUND								
Underground Primary								
600 amp Sectionalizer with (6) 1100 kcmil AL Terminations	7	EA	24.00	168.00	16,800.00	4,650.00	32,550.00	49,350.00
(2) - 6 inch PVC Conduit Ductbank	2940	FT	0.03	88.20	8,820.00	9.00	26,460.00	35,280.00
Conduit Elbows & Fittings	1	LS	50.00	50.00	5,000.00	4,500.00	4,500.00	9,500.00
(3) 1100 kcmil AL Cables / Circuit	2940	FT	0.03	88.20	8,820.00	27.00	79,380.00	88,200.00
Bore 6" conduit	2940	FT	0.00	0.00	0.00	15.00	44,100.00	44,100.00
Remove 200 Amp Equipment	1	LS	100.00	100.00	10,000.00	0.00	0.00	10,000.00
Subtotal				494.40	49,440.00		186,990.00	
Avg. Labor Rate	100.00							
Subtotal Labor					\$49,440.00			\$49,440.00
Subtotal Material							\$186,990.00	\$186,990.00
Sales Tax Material	8.00%							\$14,959.20
Subtotal Labor, Material & Tax								\$251,389.20
Equipment & Trucks	164.80					\$ 125.00		\$20,600.00
Contingency	10.00%							\$27,200.00
TOTAL ESTIMATE								\$299,189.20

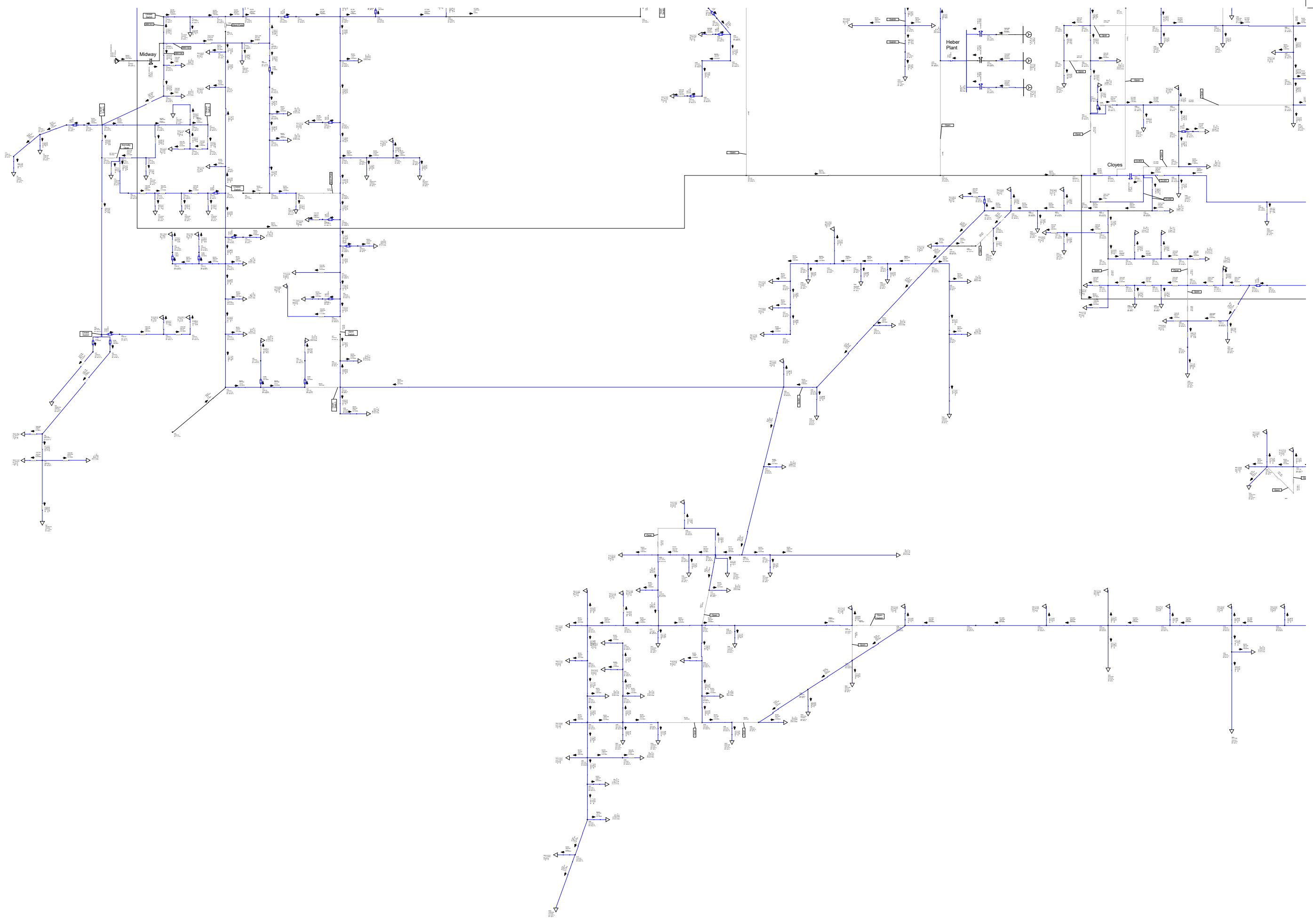
Notes & Comments:

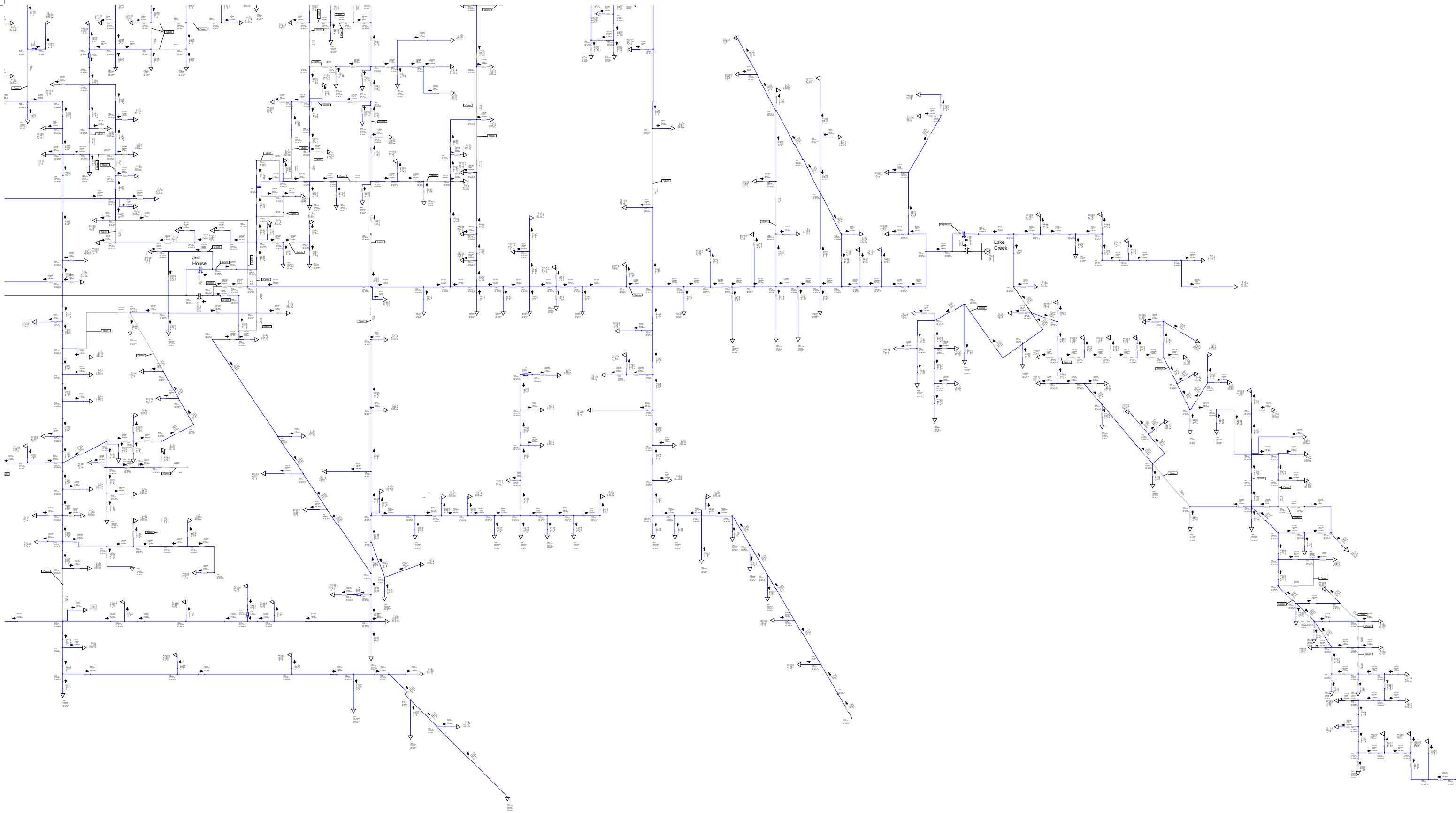
- 1 - The above estimate is based on preliminary information.
- 2 - No engineering has been conducted.
- 3 - Costs shown are as of 1/31/19. Market conditions are volatile and can have a significant impact on actual costs at the time on construction.
- 4 - Right of way costs are not included in cost estimate.

APPENDIX 3 – LOAD FLOW STUDIES





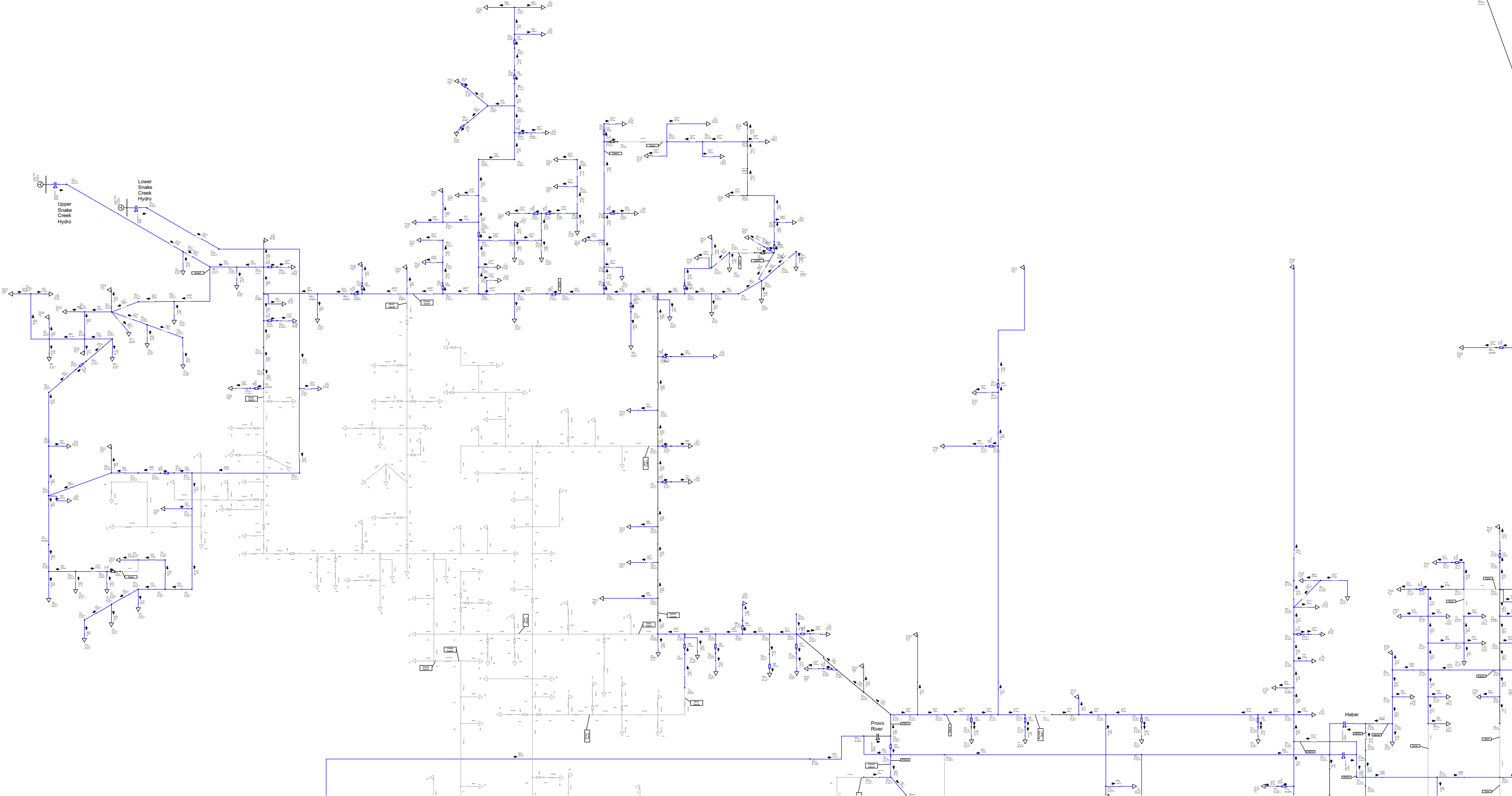


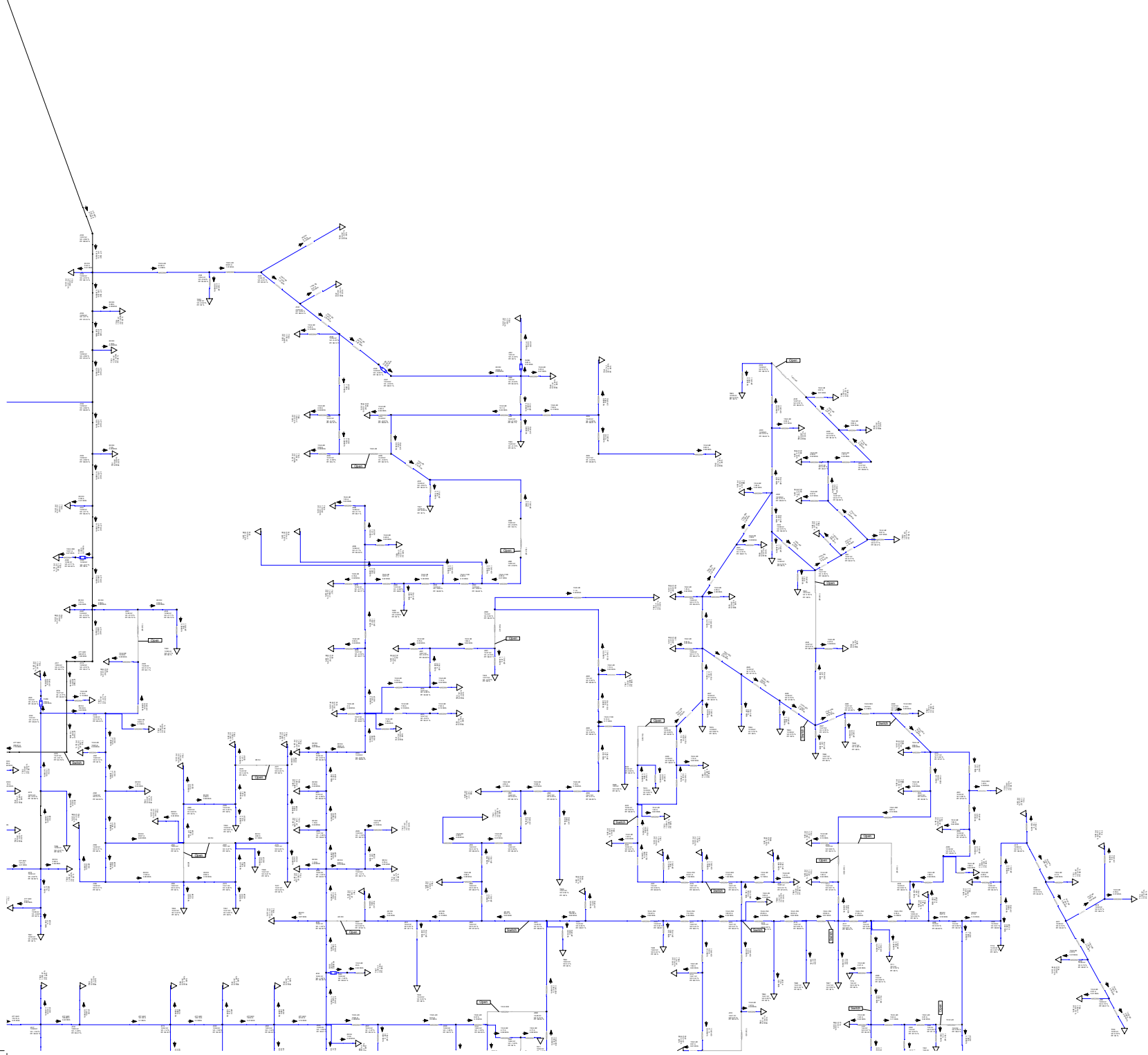
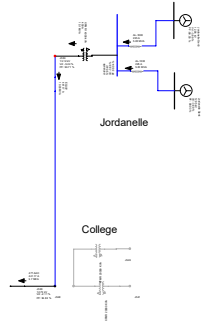


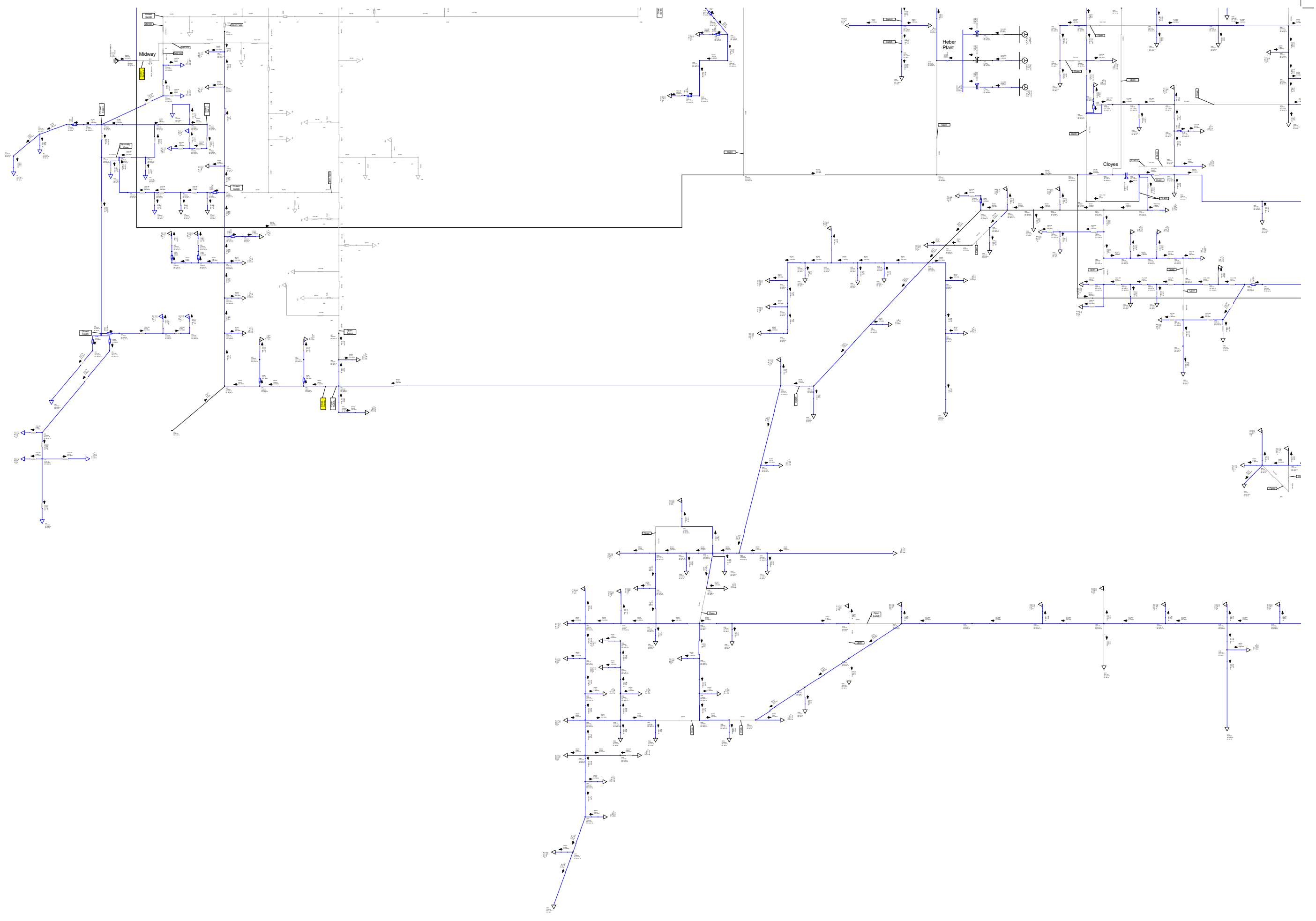
Heber 12.47 kV
2018 - Loss of Midway transformer

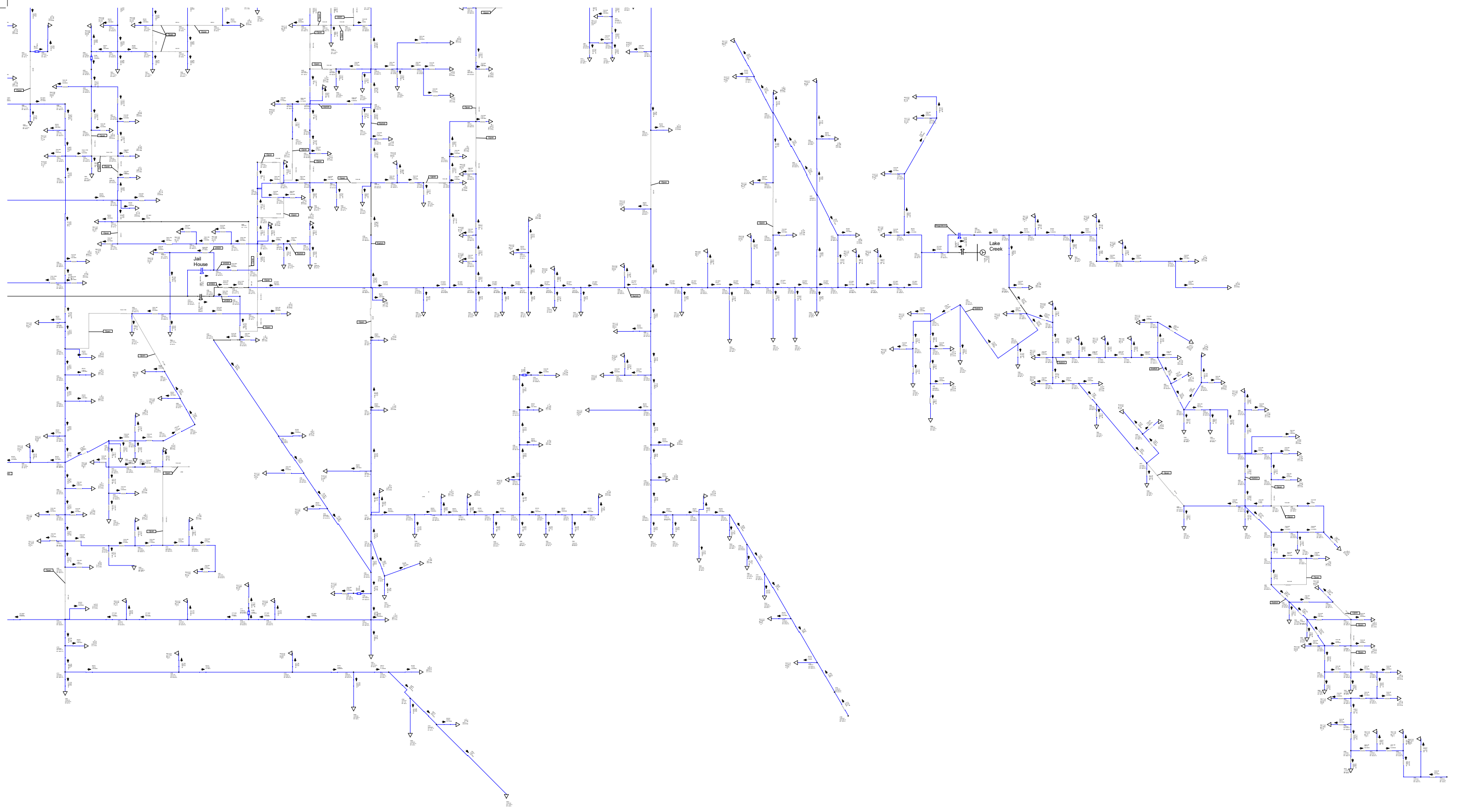
1. MW104 circuit can be picked up by CL402 circuit. Line will be nearing ampacity and there are voltage issues (almost 6% drop).

2. Power cannot be restored to MW101 and MW102 circuits.



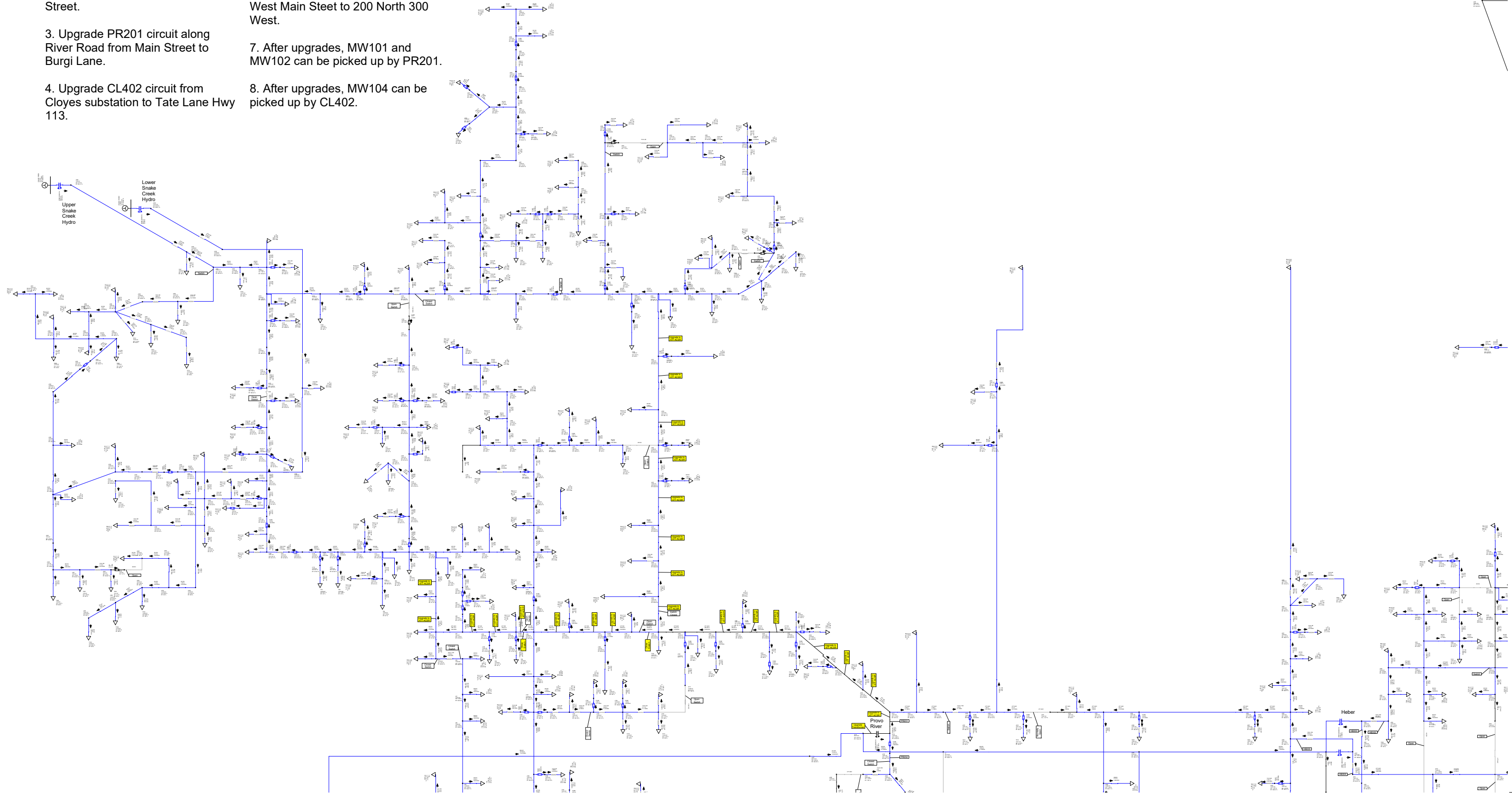


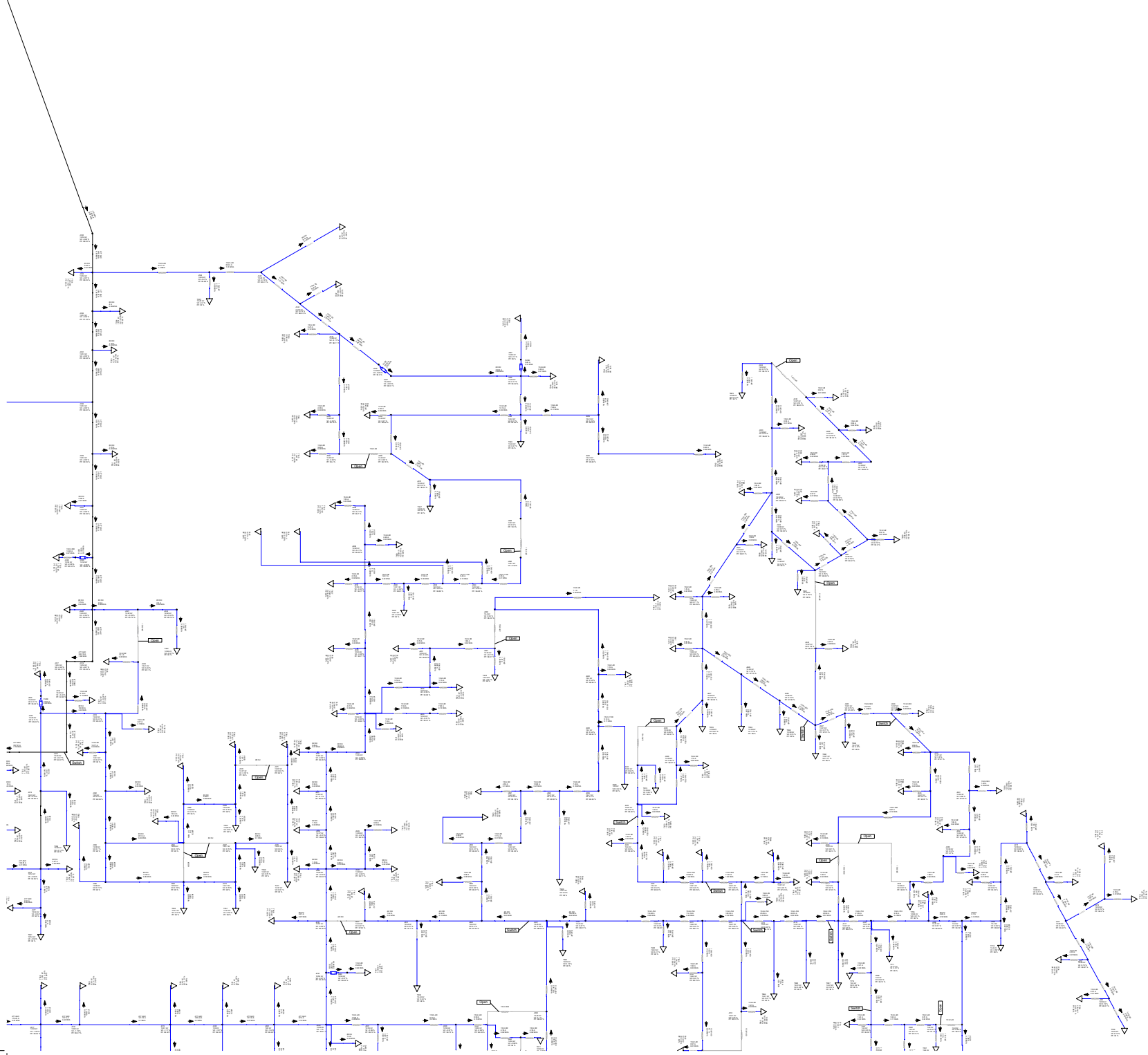
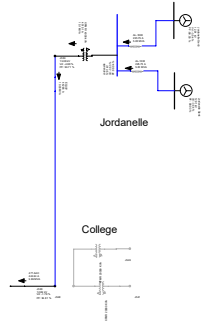


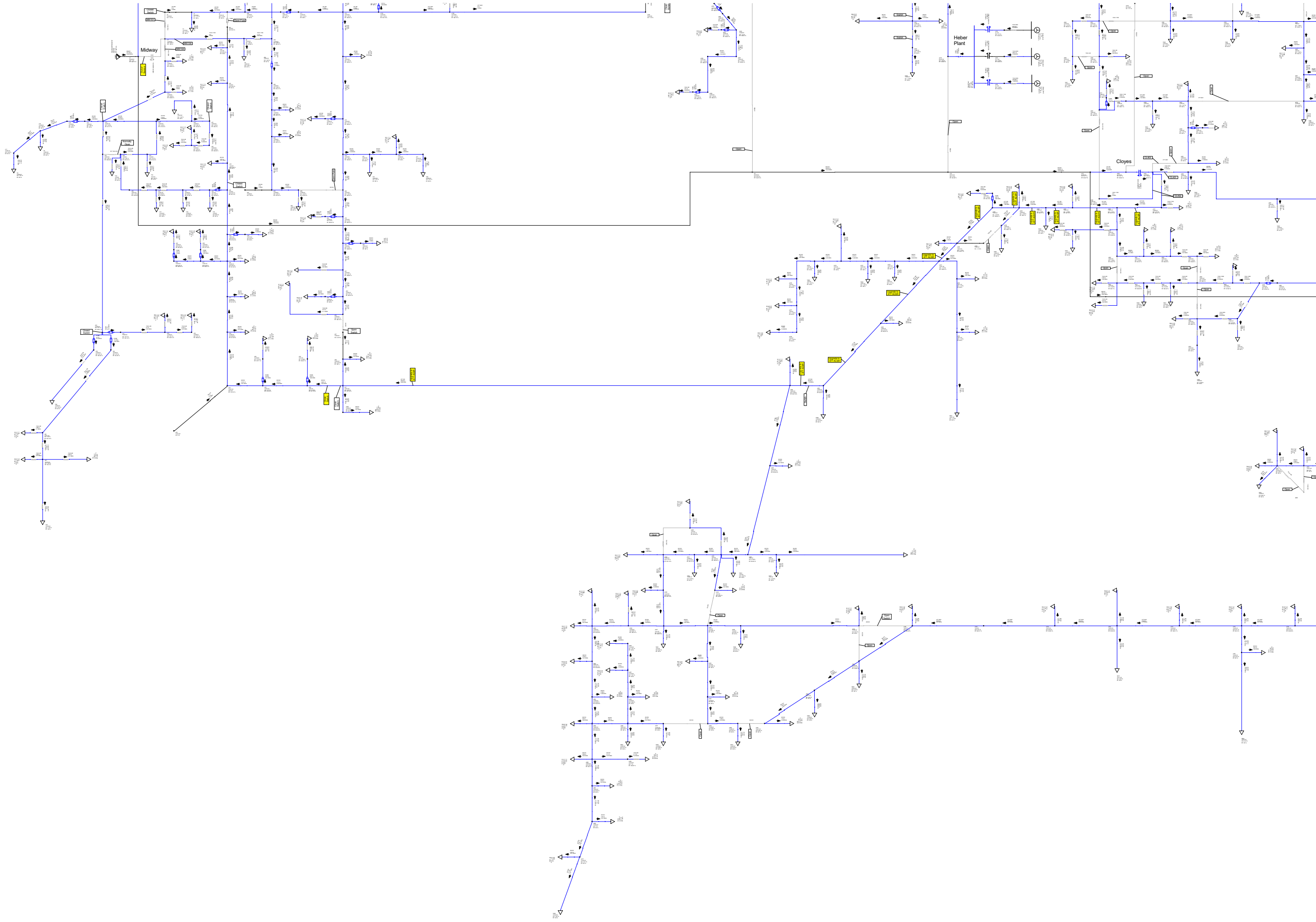


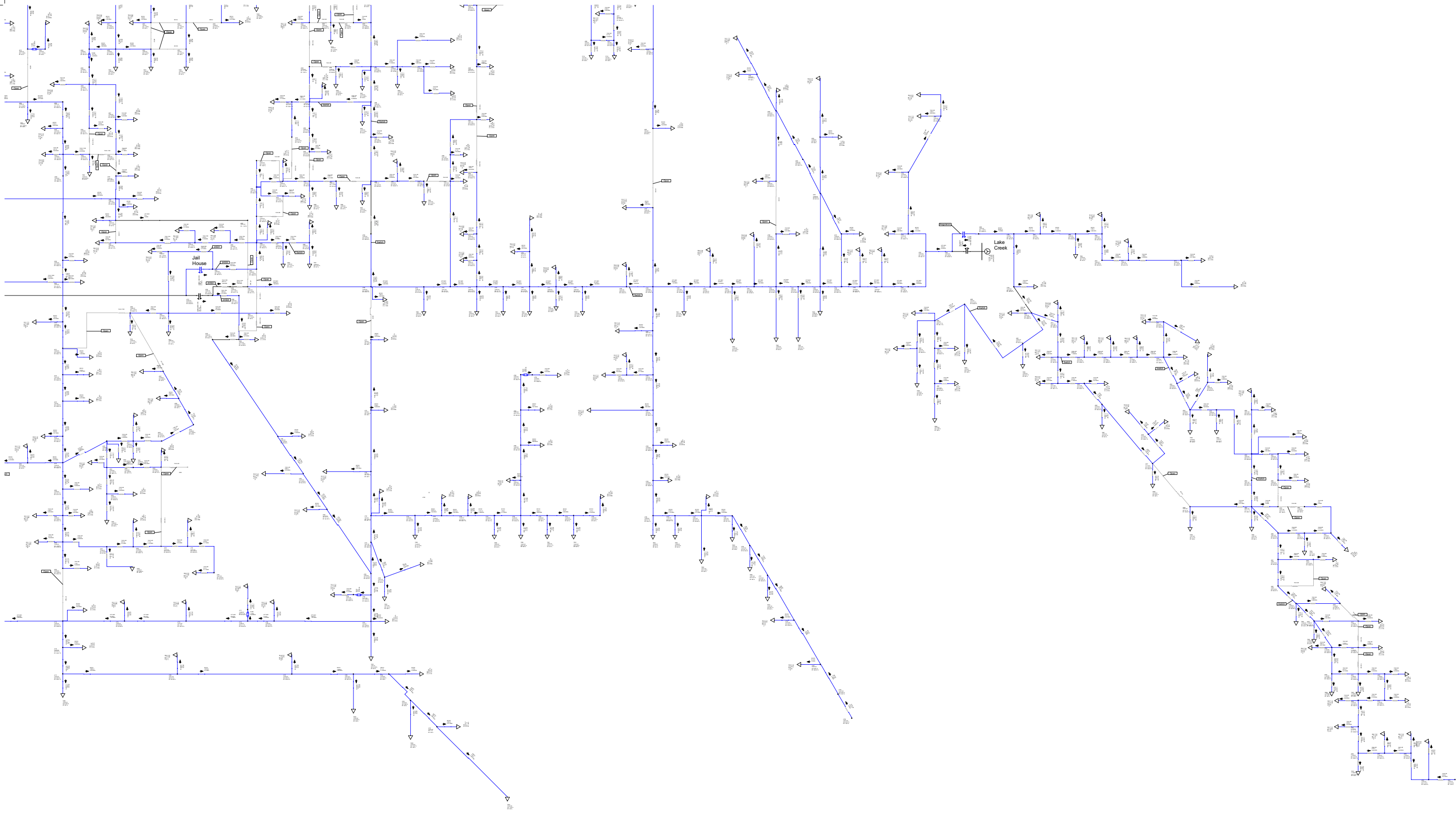
Heber 12.47 kV
2018 - Loss of Midway transformer
(After Upgrades)

1. Upgrade Provo River transformer to larger 12/16/20 MVA transformer.
2. Upgrade PR201 circuit from Provo River substation to 600 East Main Street.
3. Upgrade PR201 circuit along River Road from Main Street to Burgi Lane.
4. Upgrade CL402 circuit from Cloyes substation to Tate Lane Hwy 113.
5. Upgrade MW101 and MW102 circuits from 220 West Main Street to 300 East Main Street.
6. Upgrade MW102 circuit from 300 West Main Street to 200 North 300 West.
7. After upgrades, MW101 and MW102 can be picked up by PR201.
8. After upgrades, MW104 can be picked up by CL402.









Heber 12.47 kV
2018 - Loss of Provo River
transformer

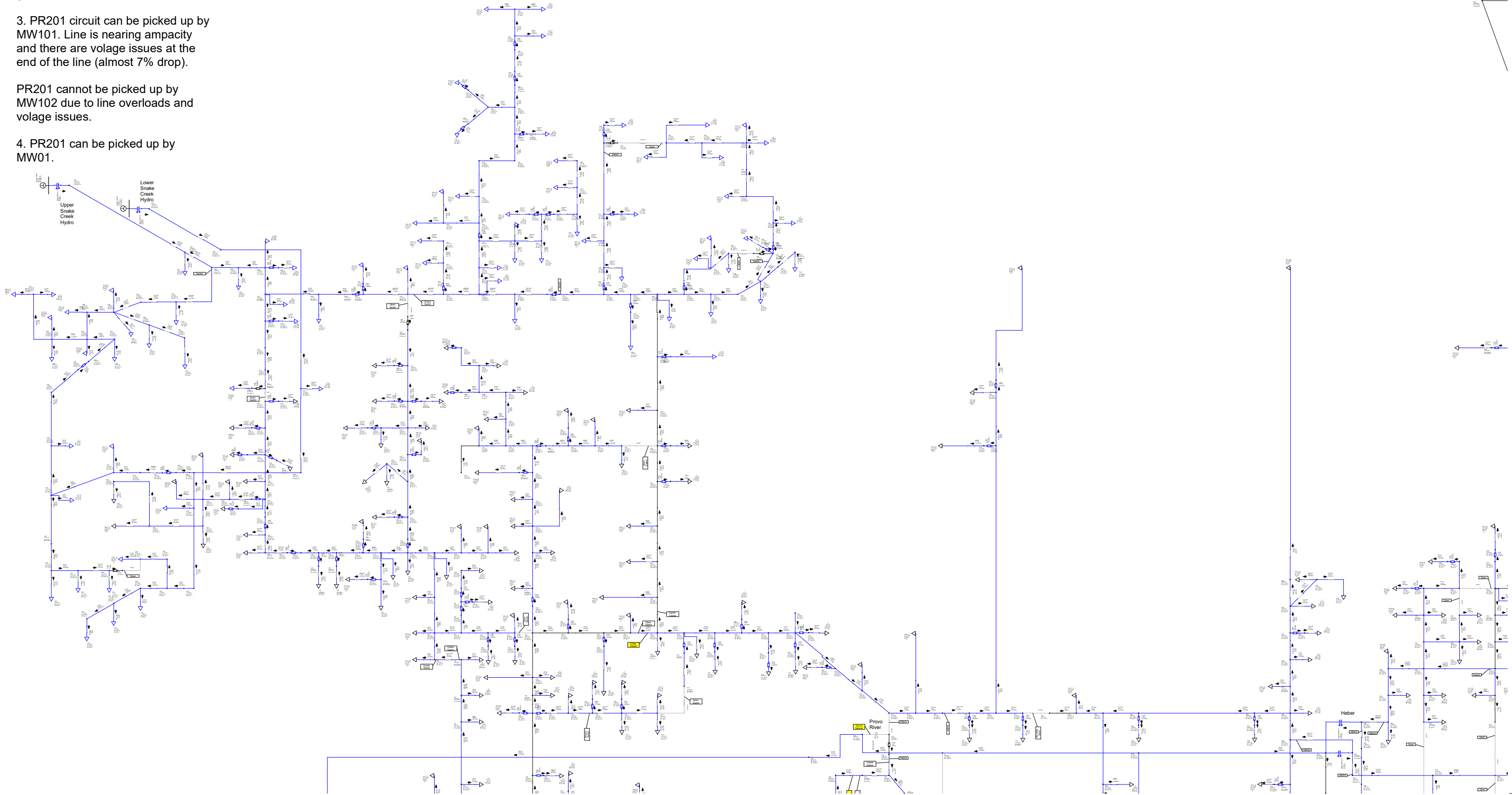
1. Provo River transformer is out of capacity during peak load when Snake Creek generation off.

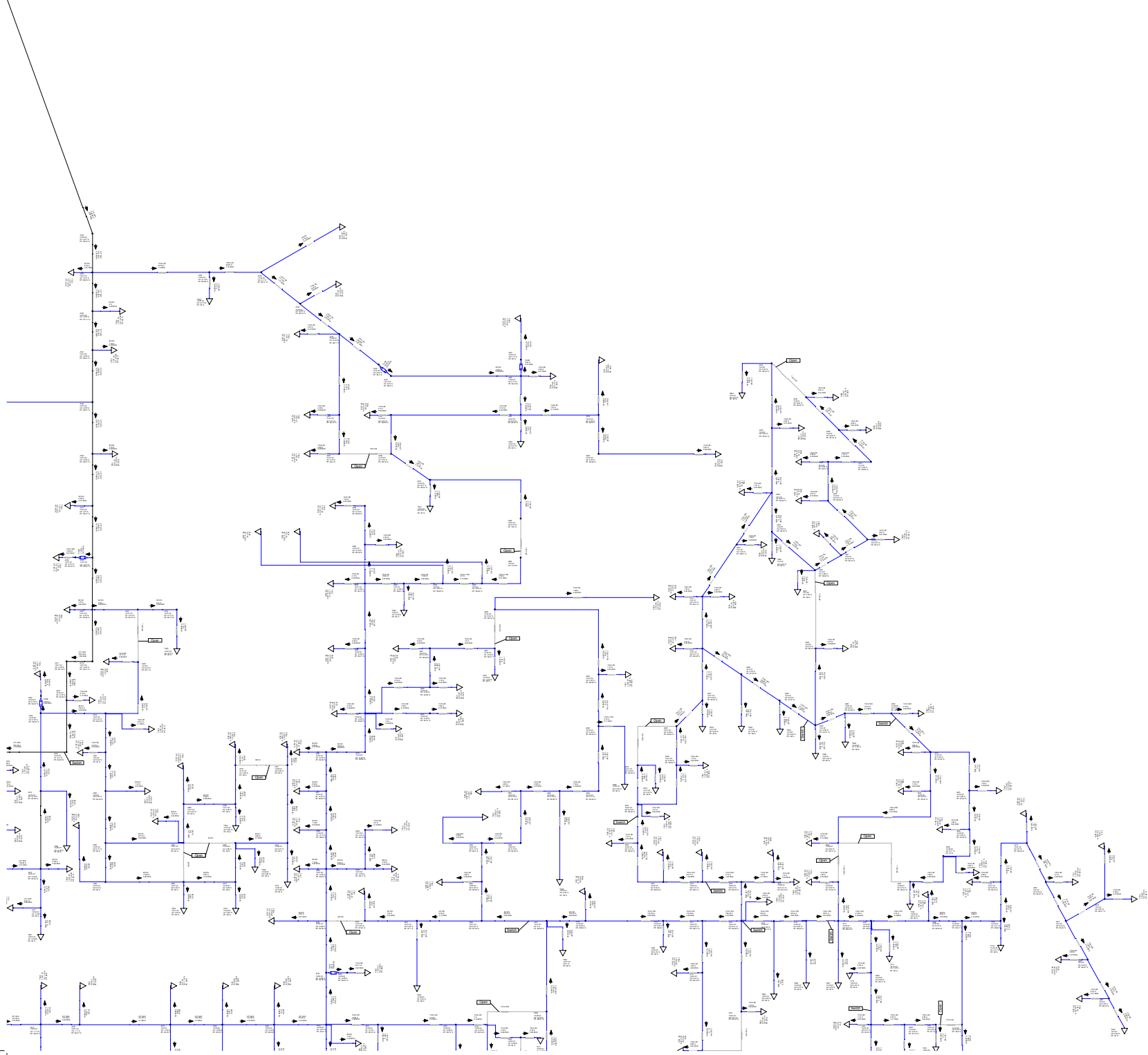
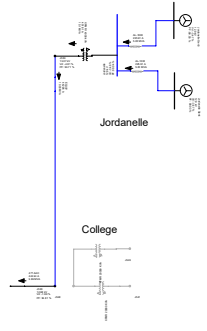
2. Part of PR201 circuit is overloaded when Snake Creek generation is off.

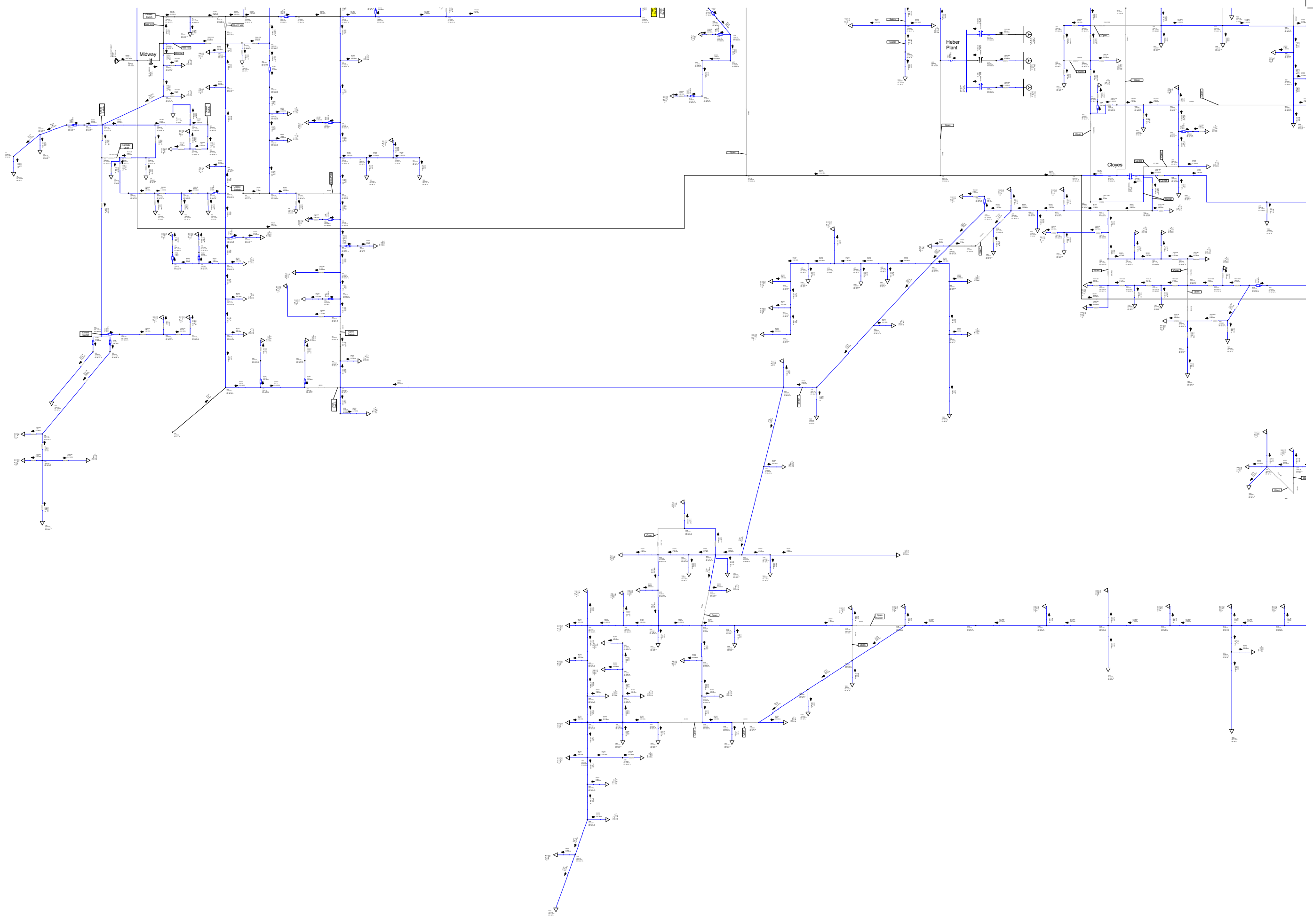
3. PR201 circuit can be picked up by MW101. Line is nearing ampacity and there are volage issues at the end of the line (almost 7% drop).

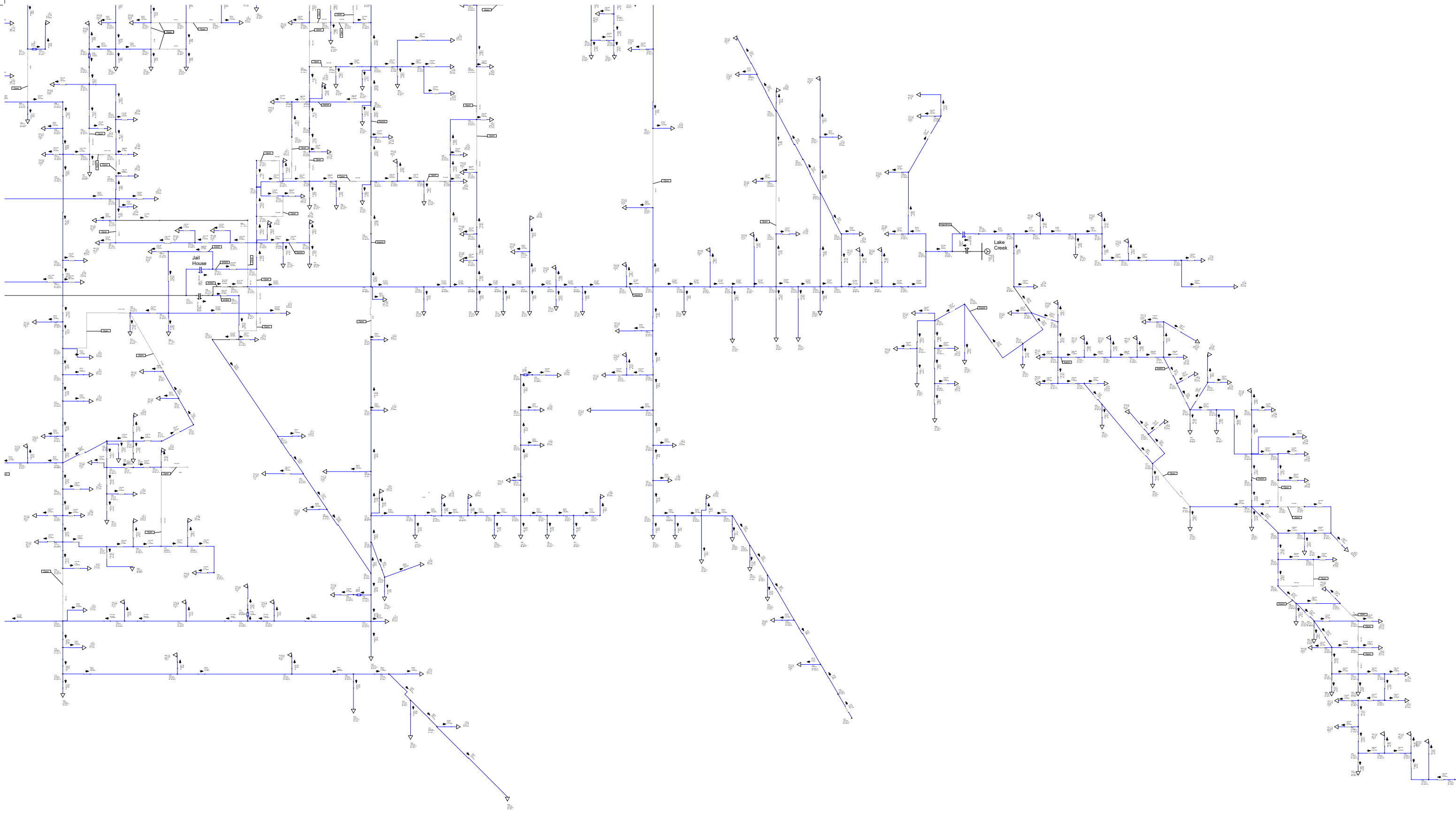
PR201 cannot be picked up by MW102 due to line overloads and volage issues.

4. PR201 can be picked up by MW01.



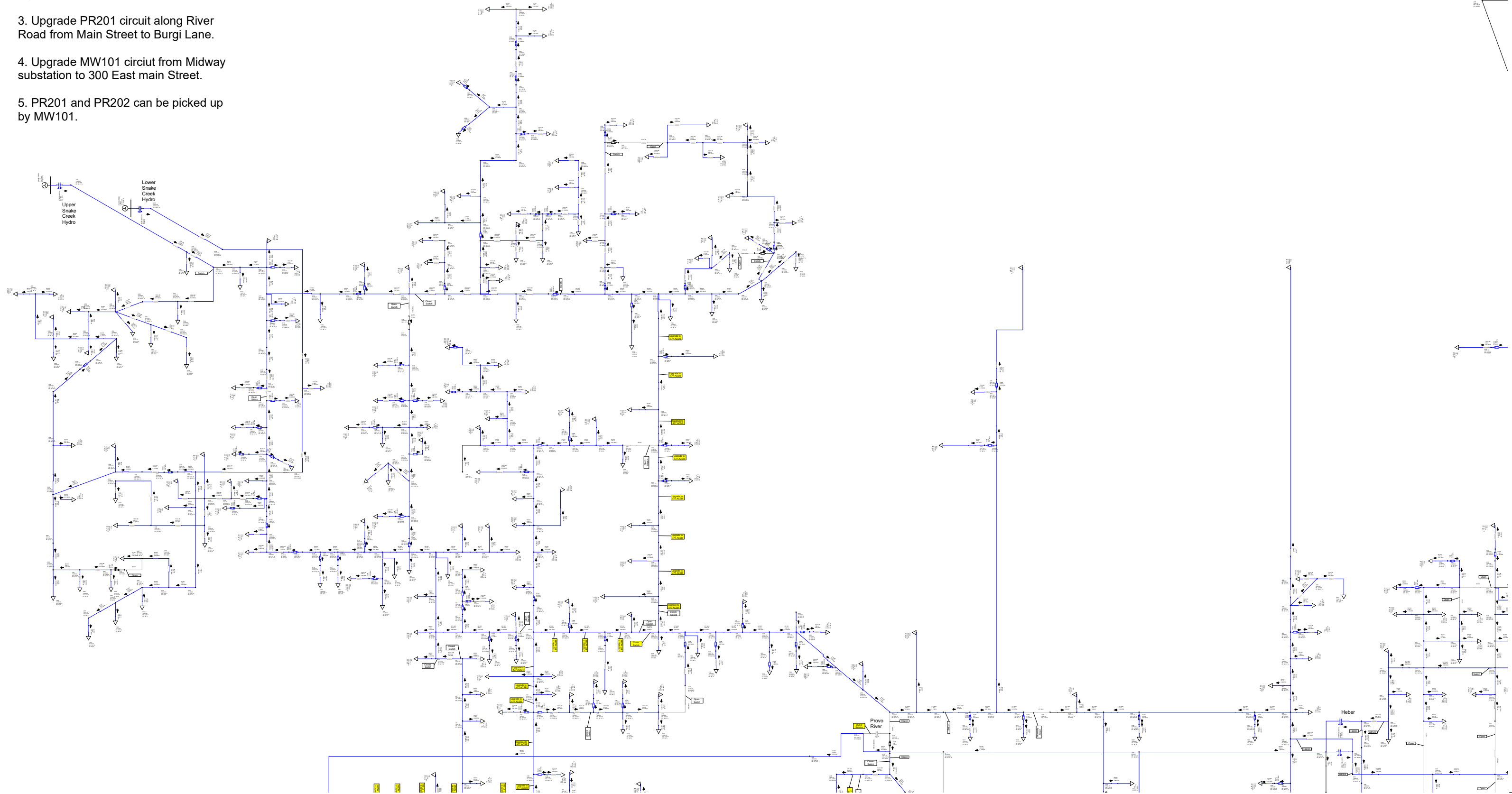


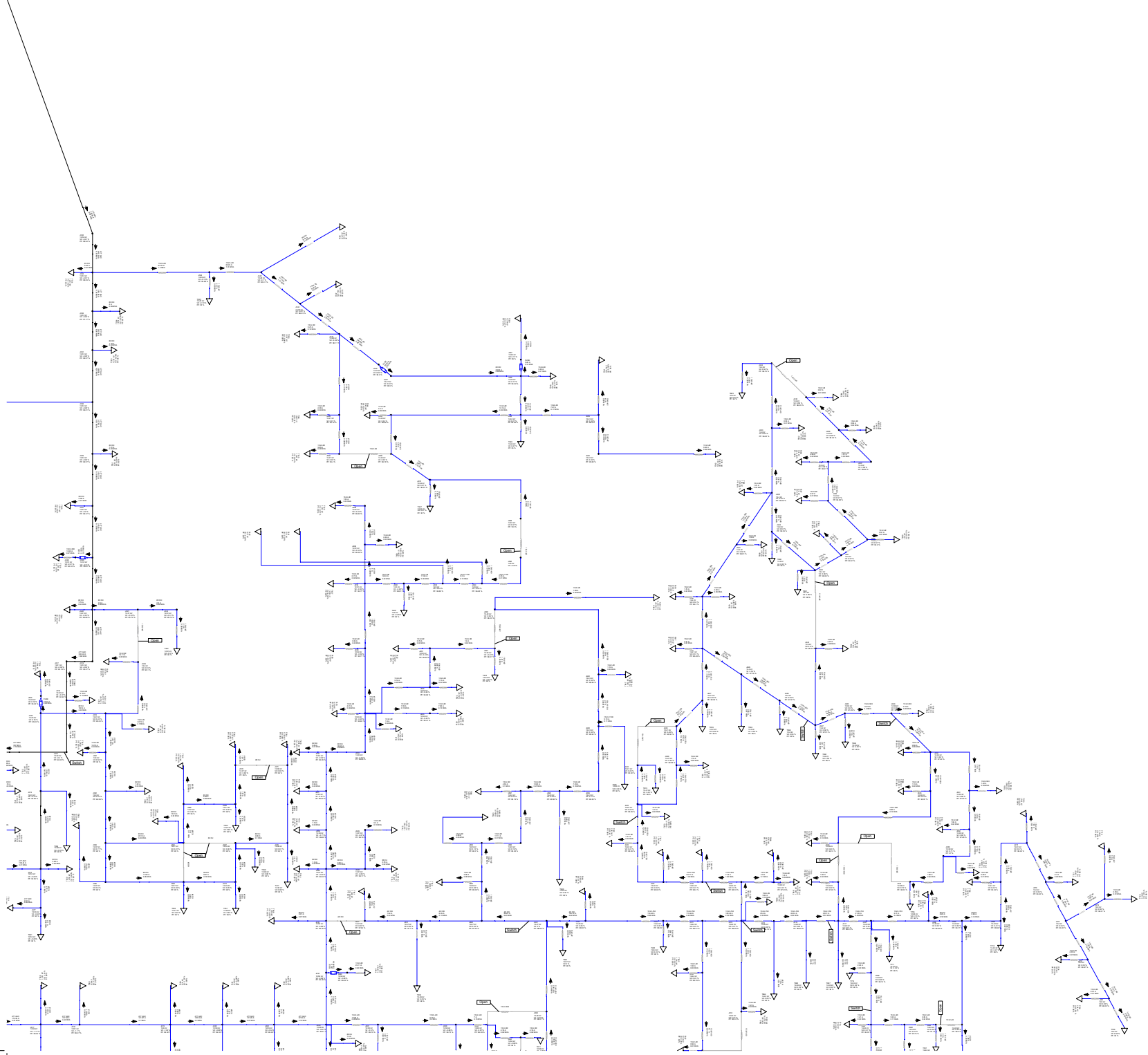
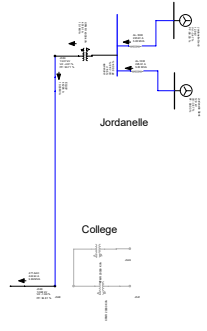


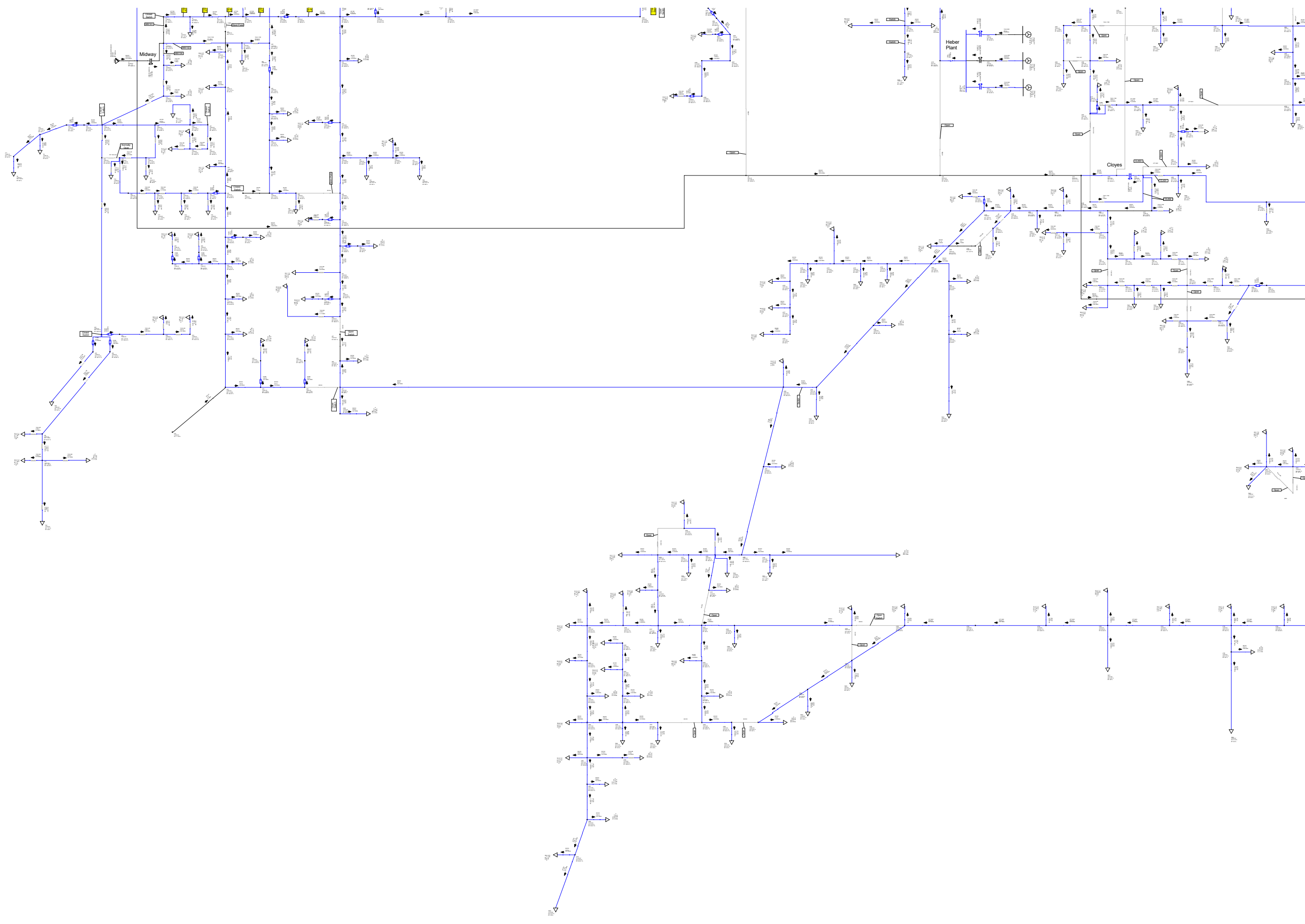


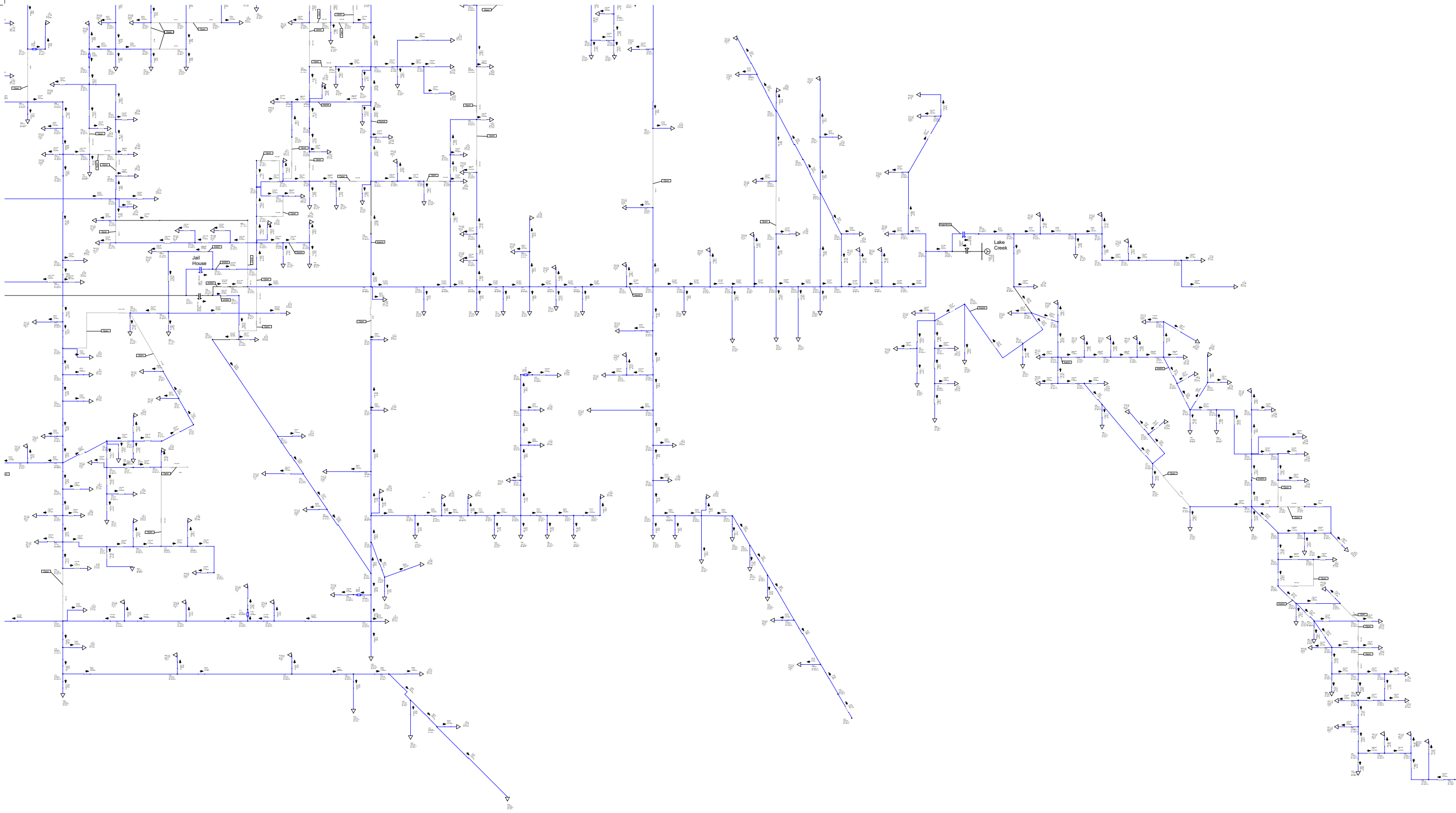
Heber 12.47 kV
2018 - Loss of Provo River transformer
(After Upgrades)

1. Upgrade Provo River transformer with a larger 12/16/20 MVA transformer.
2. Some load may be able to be moved from PR201 to Midway substation until Provo River transformer can be replaced.
3. Upgrade PR201 circuit along River Road from Main Street to Burgi Lane.
4. Upgrade MW101 circuit from Midway substation to 300 East main Street.
5. PR201 and PR202 can be picked up by MW101.



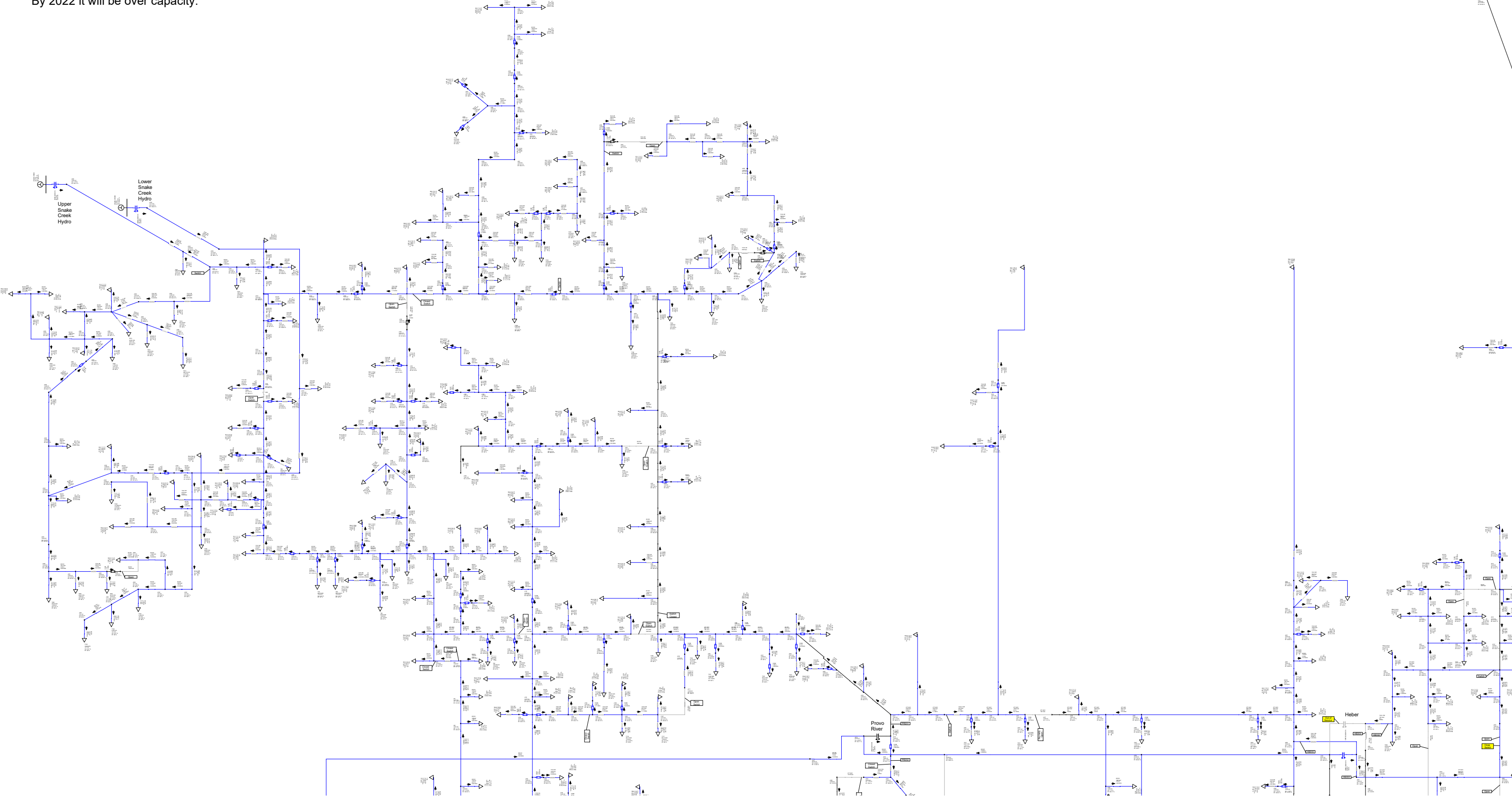


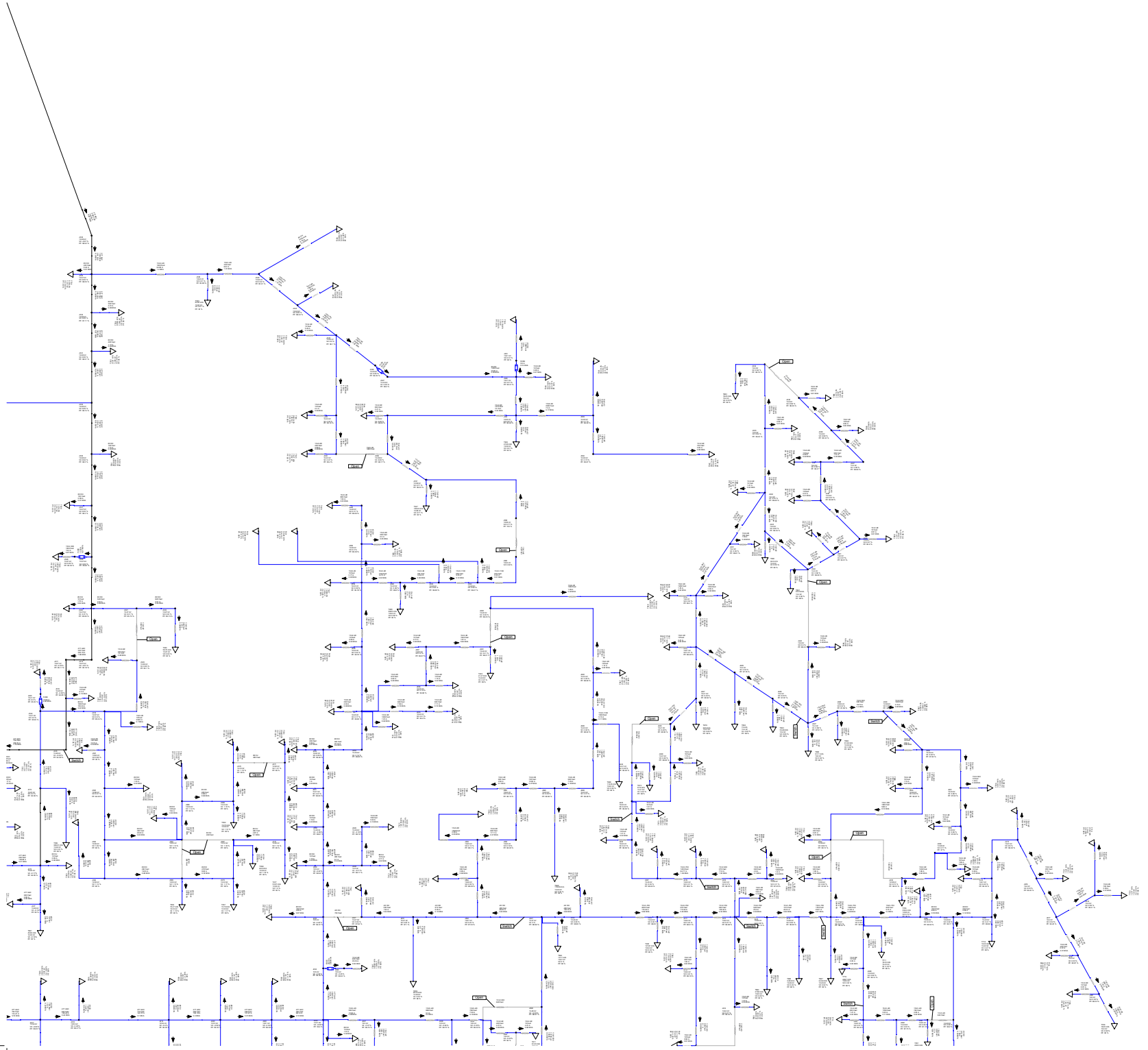
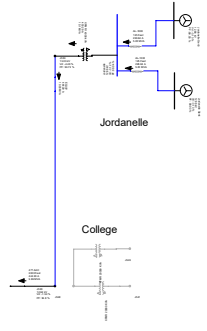


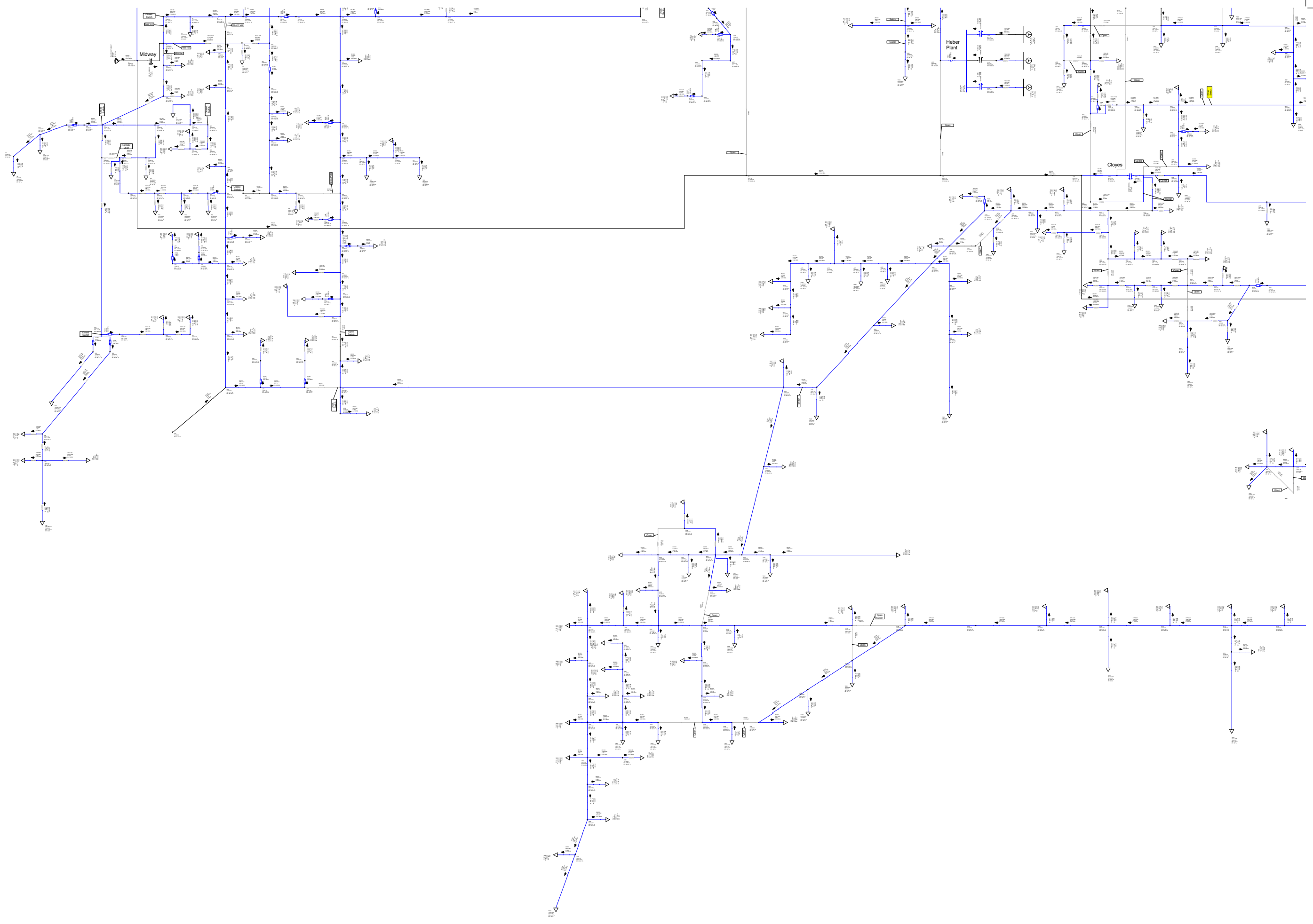


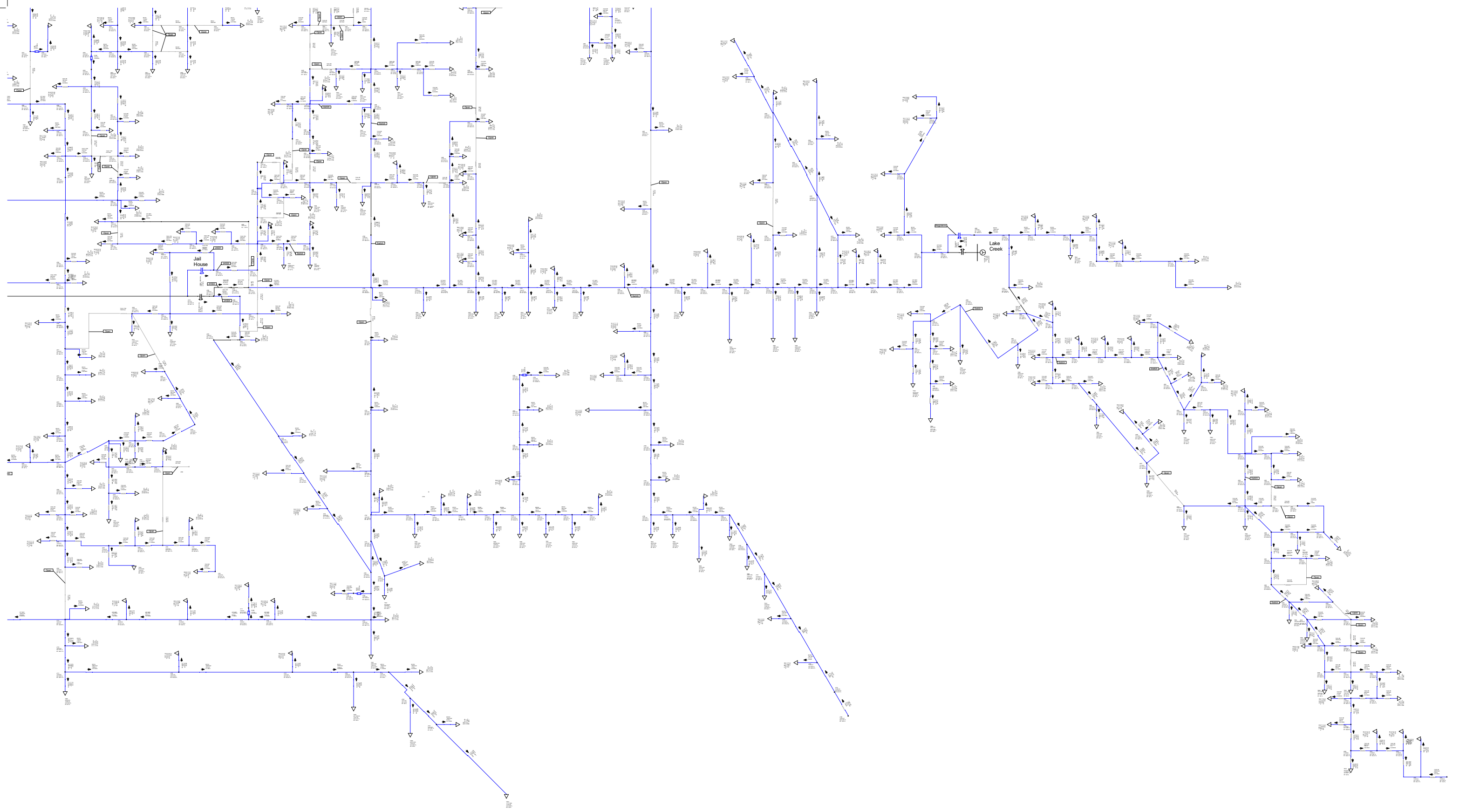
Heber 12.47 kV
2018 - Loss of Heber T1
transformer

- 1. HB302 circuit can be picked up by HB304 circuit.
- 2. HB303 circuit can be picked up by HB305 circuit. One line section of #2 ACSR is approximately at capacity. By 2022 it will be over capacity.







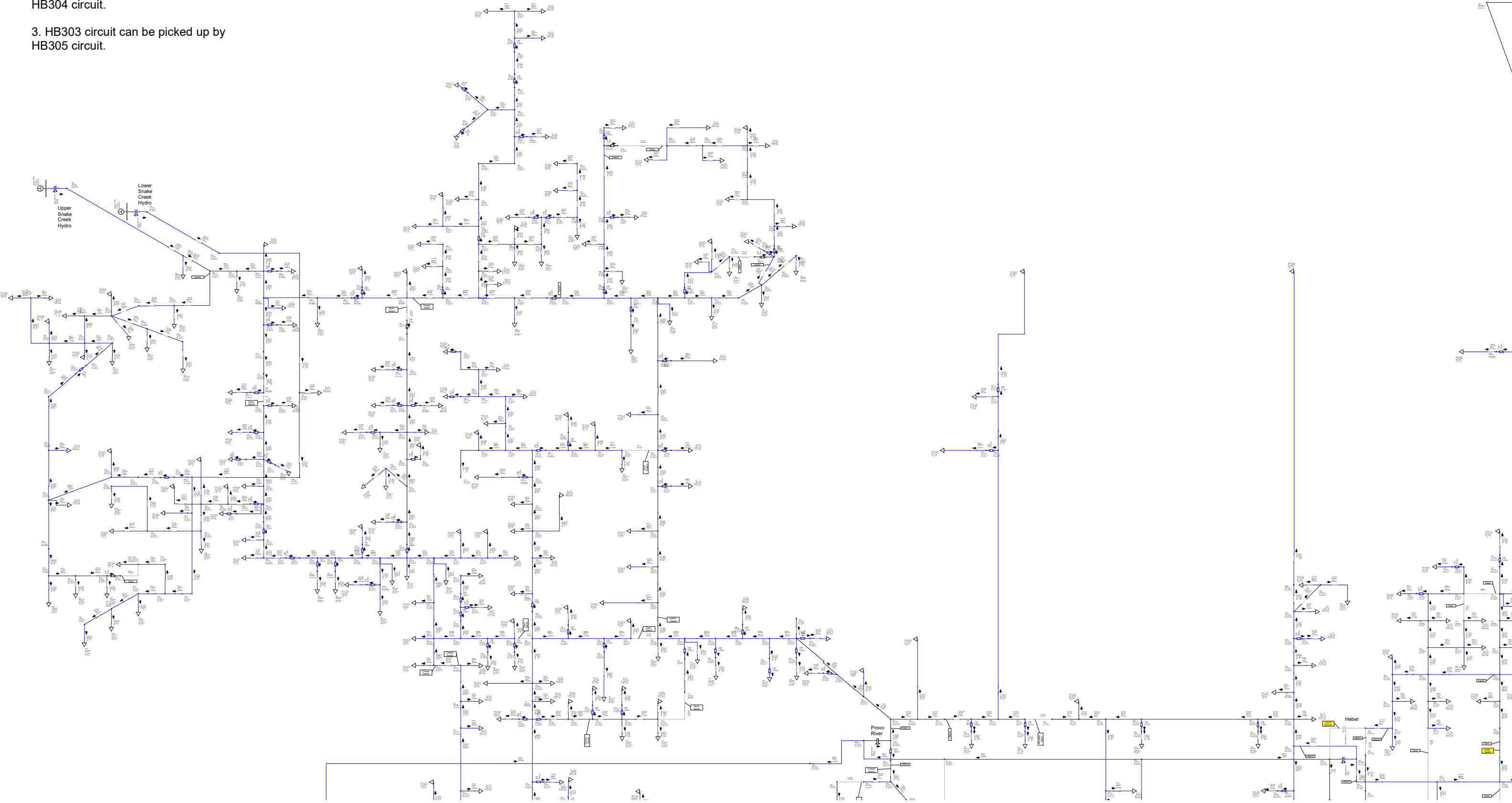


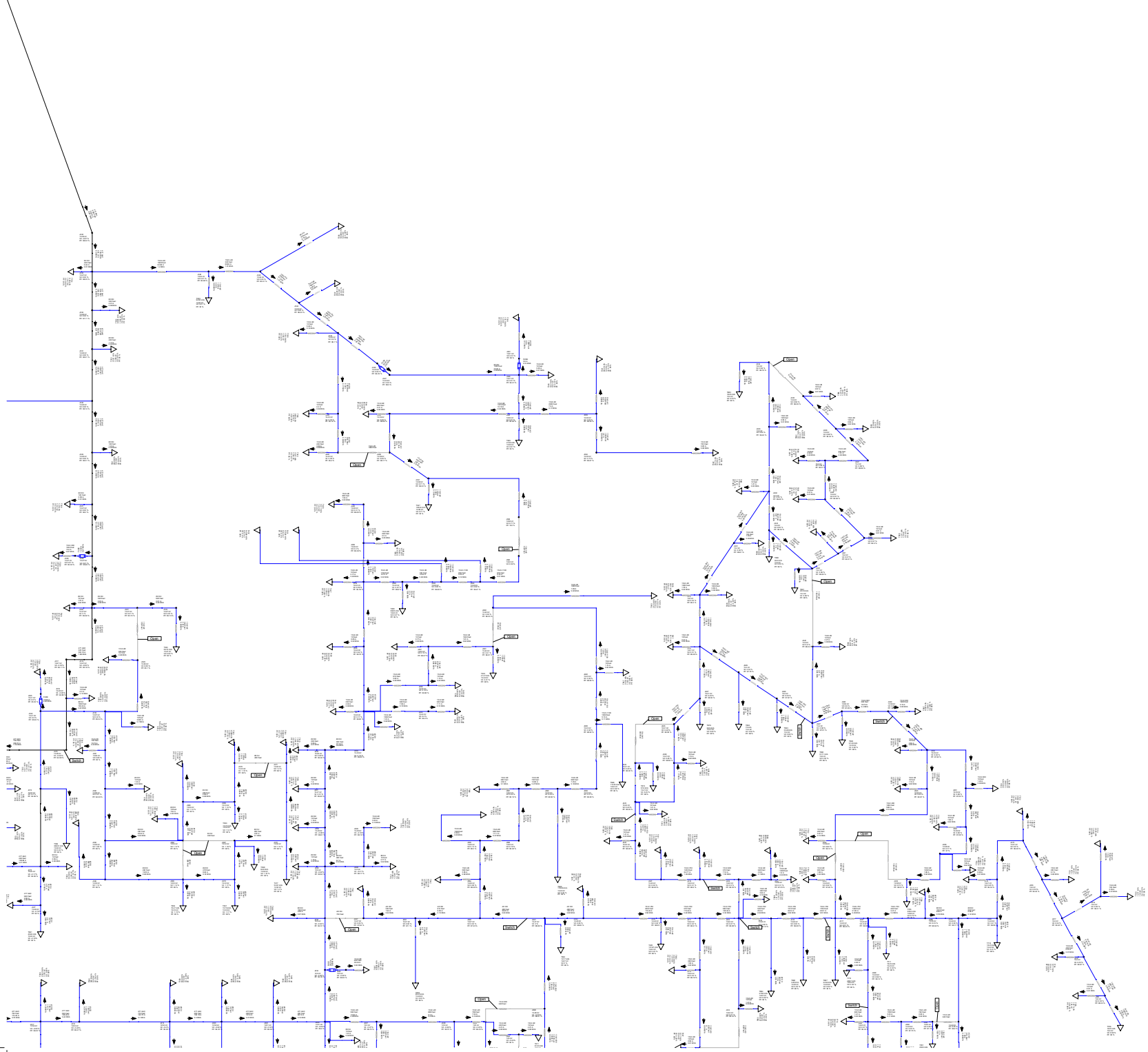
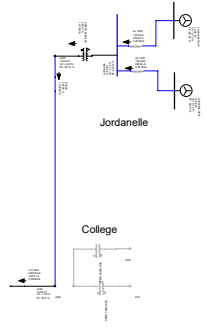
Heber 12.47 kV
2018 - Loss of Heber T1
transformer
(After Upgrades)

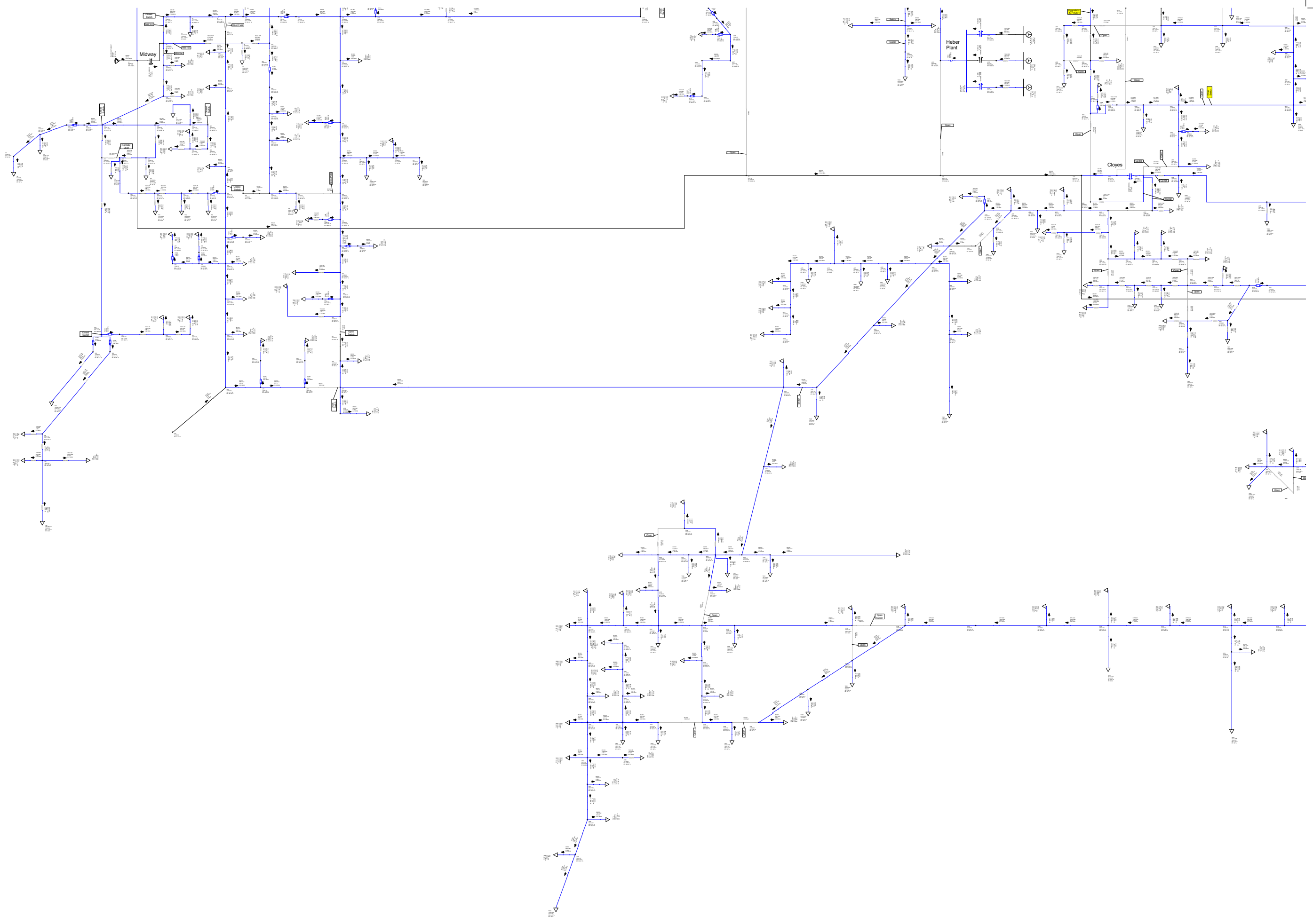
1. Upgrade HB305 circuit from 600
West 200 South to 600 West 300
South.

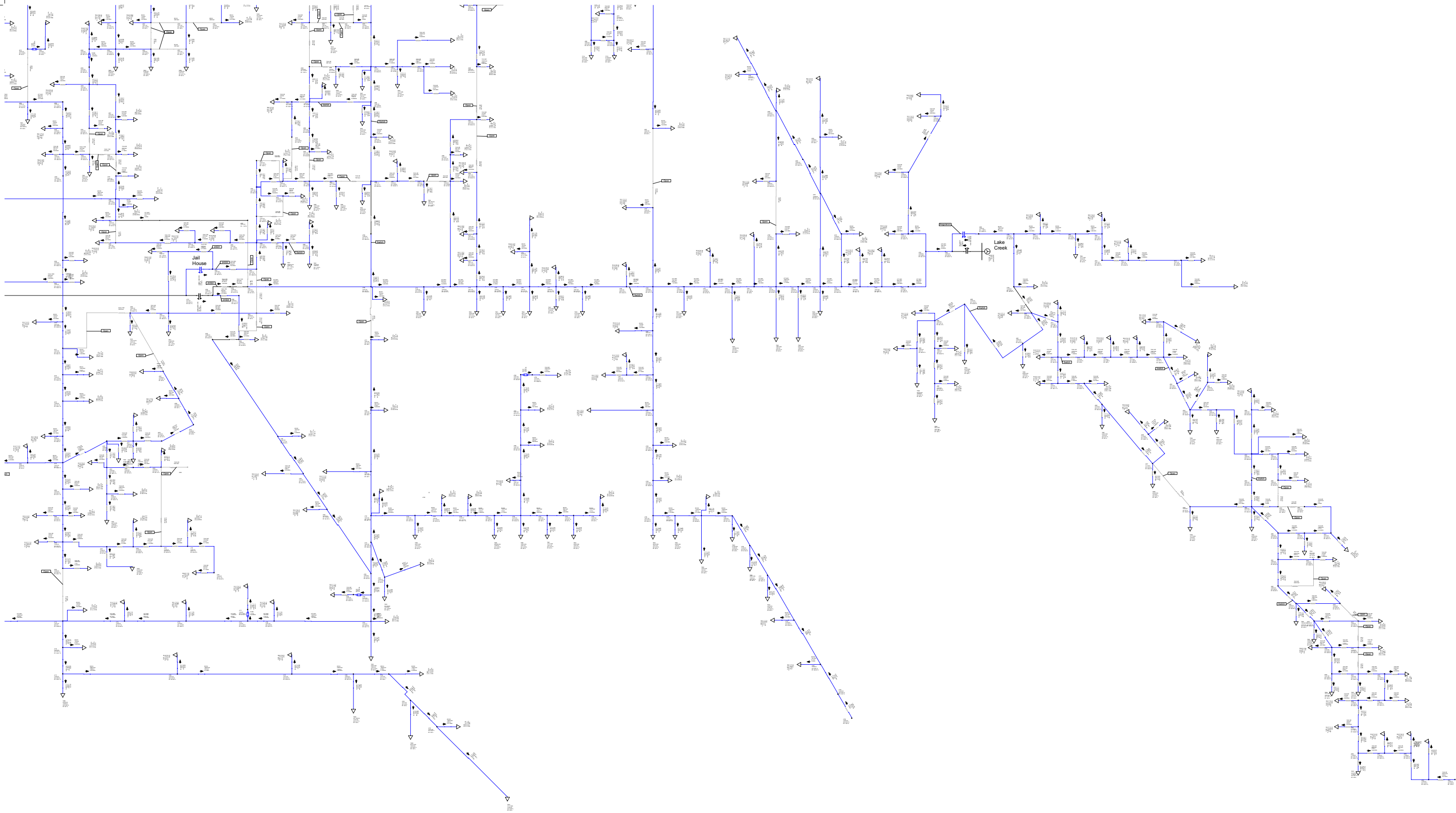
2. HB302 circuit can be picked up by
HB304 circuit.

3. HB303 circuit can be picked up by
HB305 circuit.



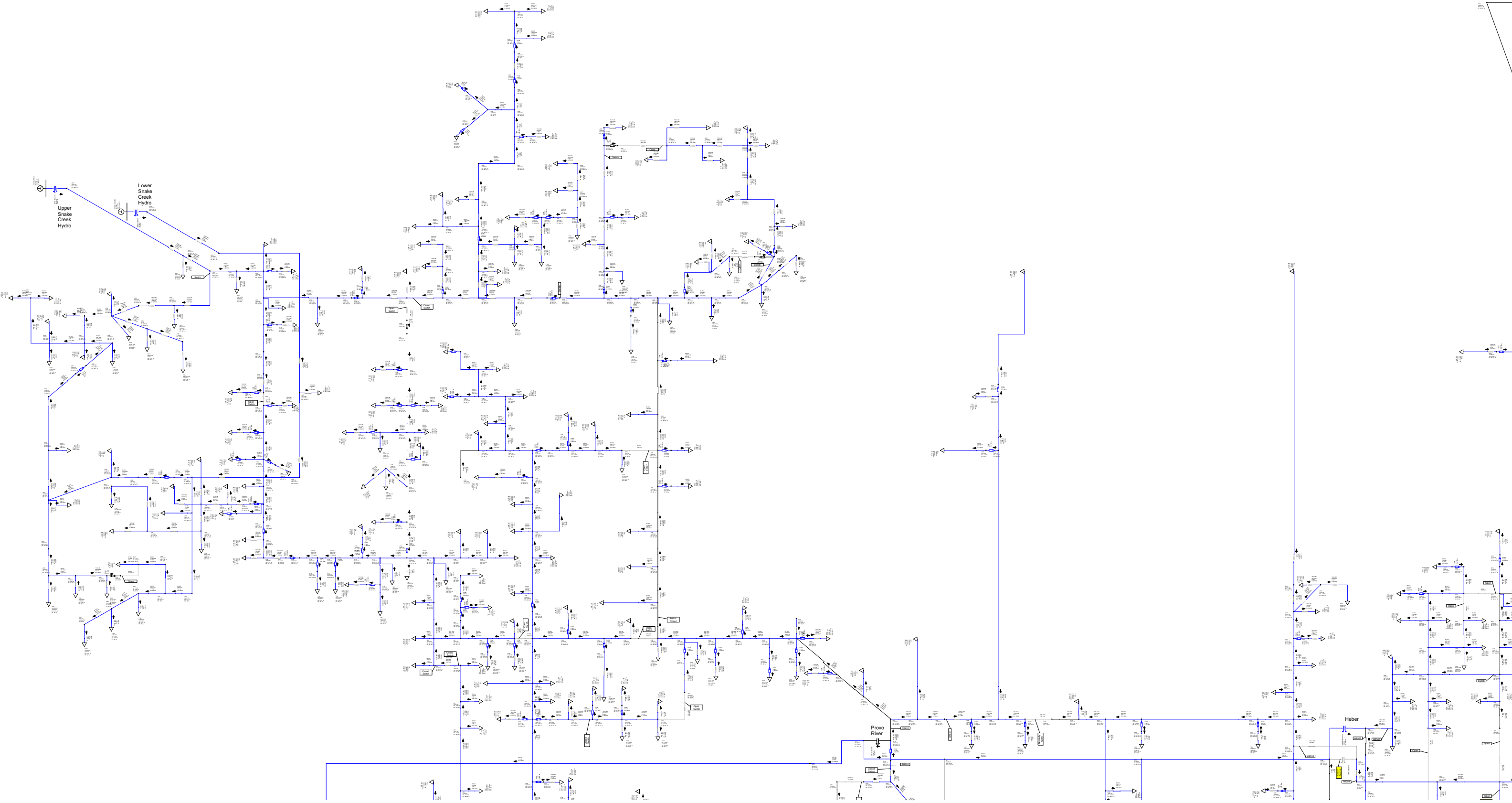


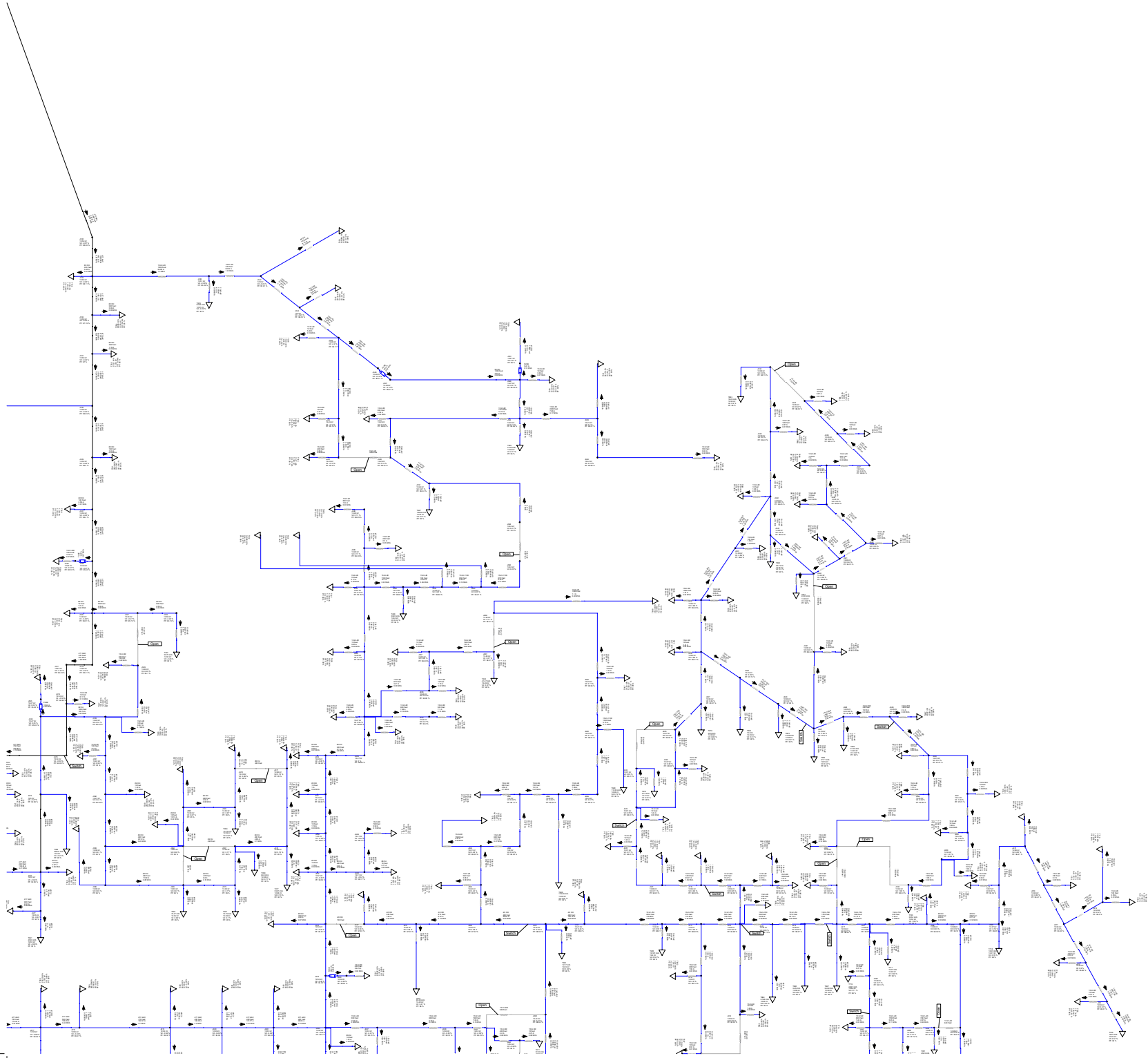
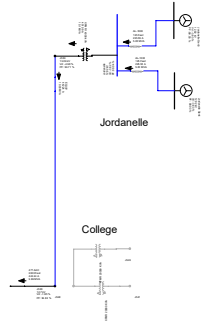


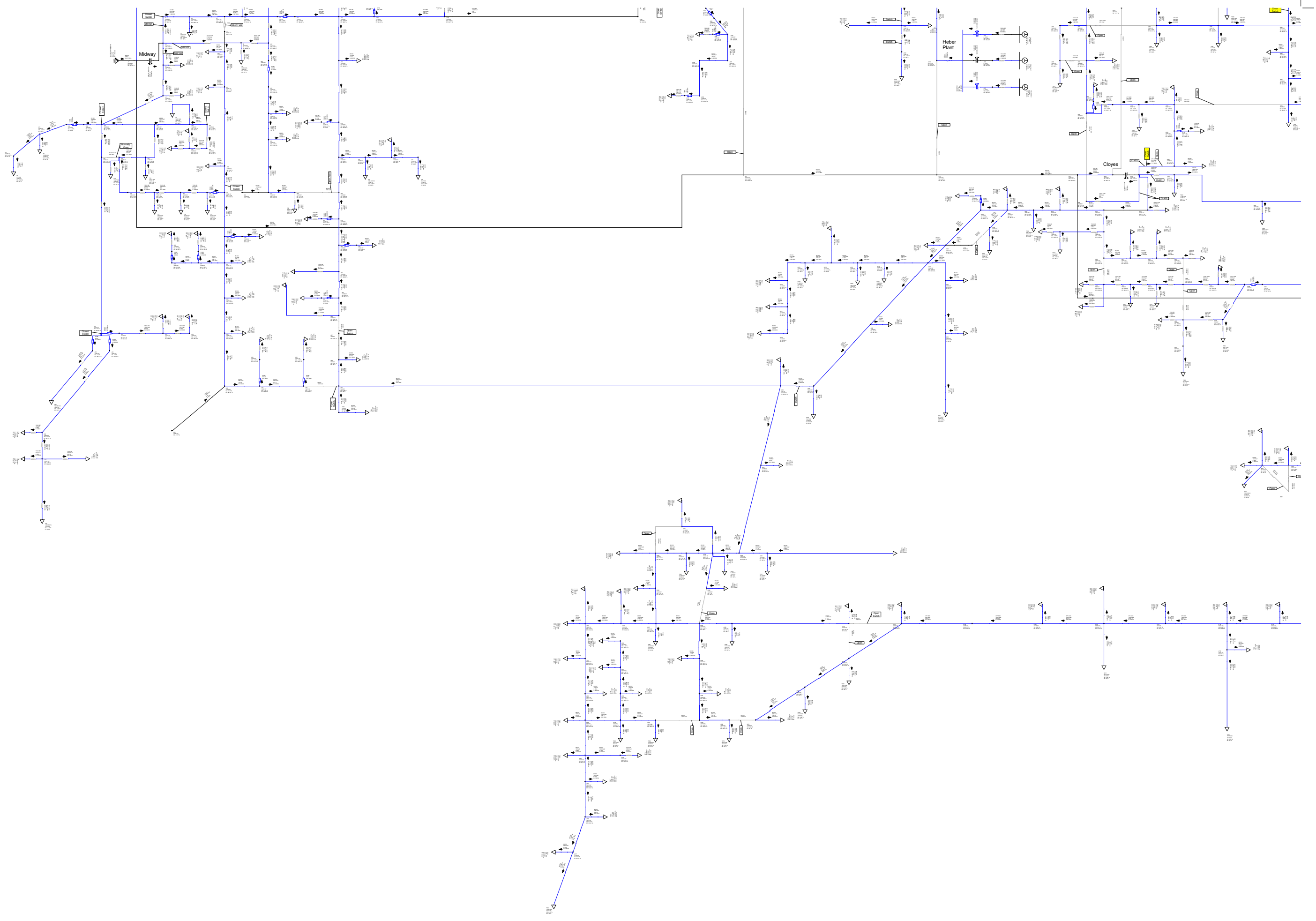


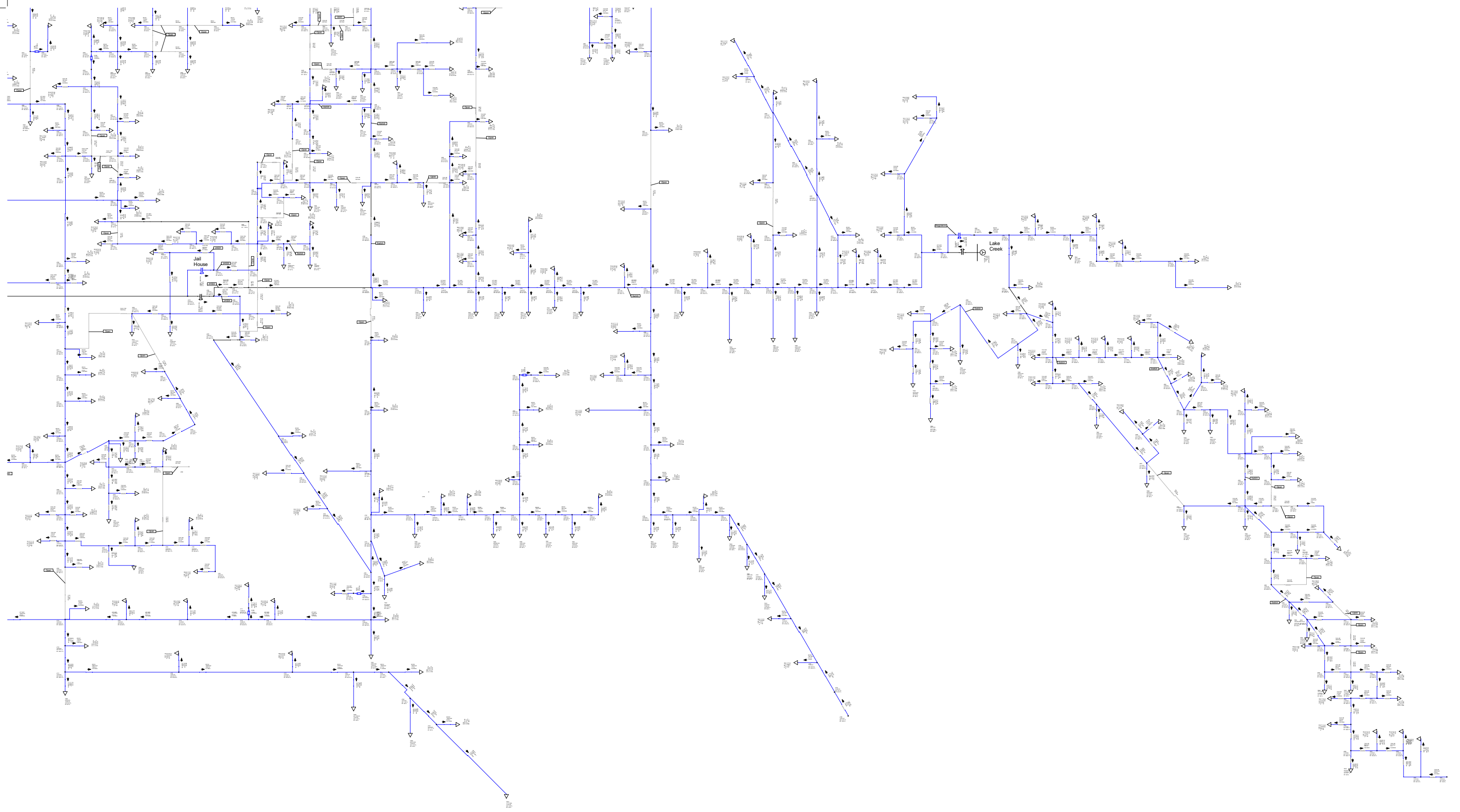
Heber 12.47 kV
2018 - Loss of Heber T2 Transformer

- 1. HB304 circuit can be picked up by HB303.
- 2. HB305 circuit can be picked up by CL403.





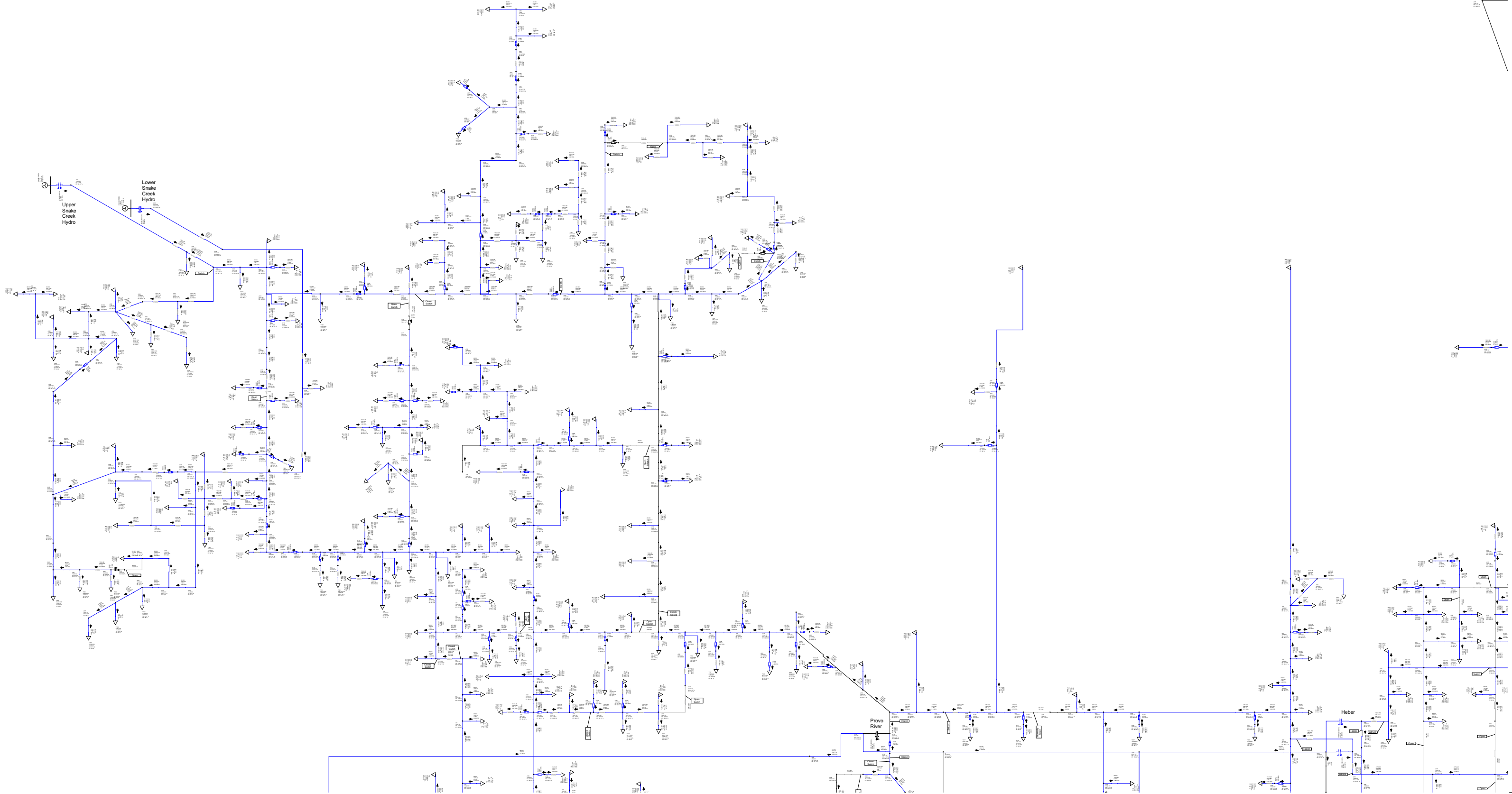


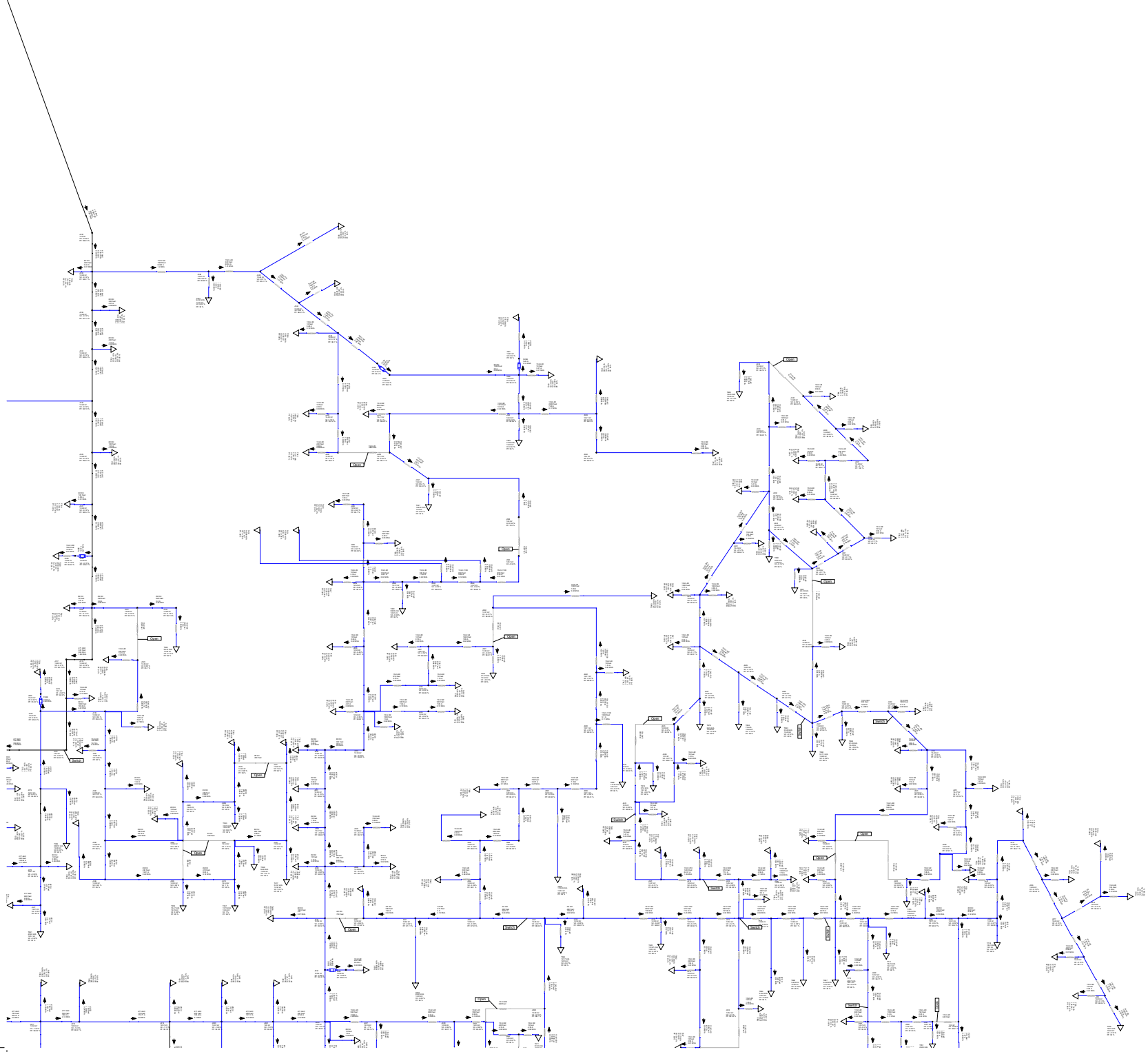
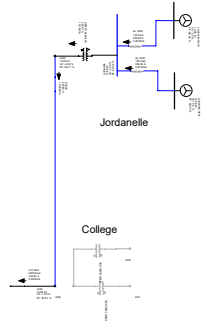


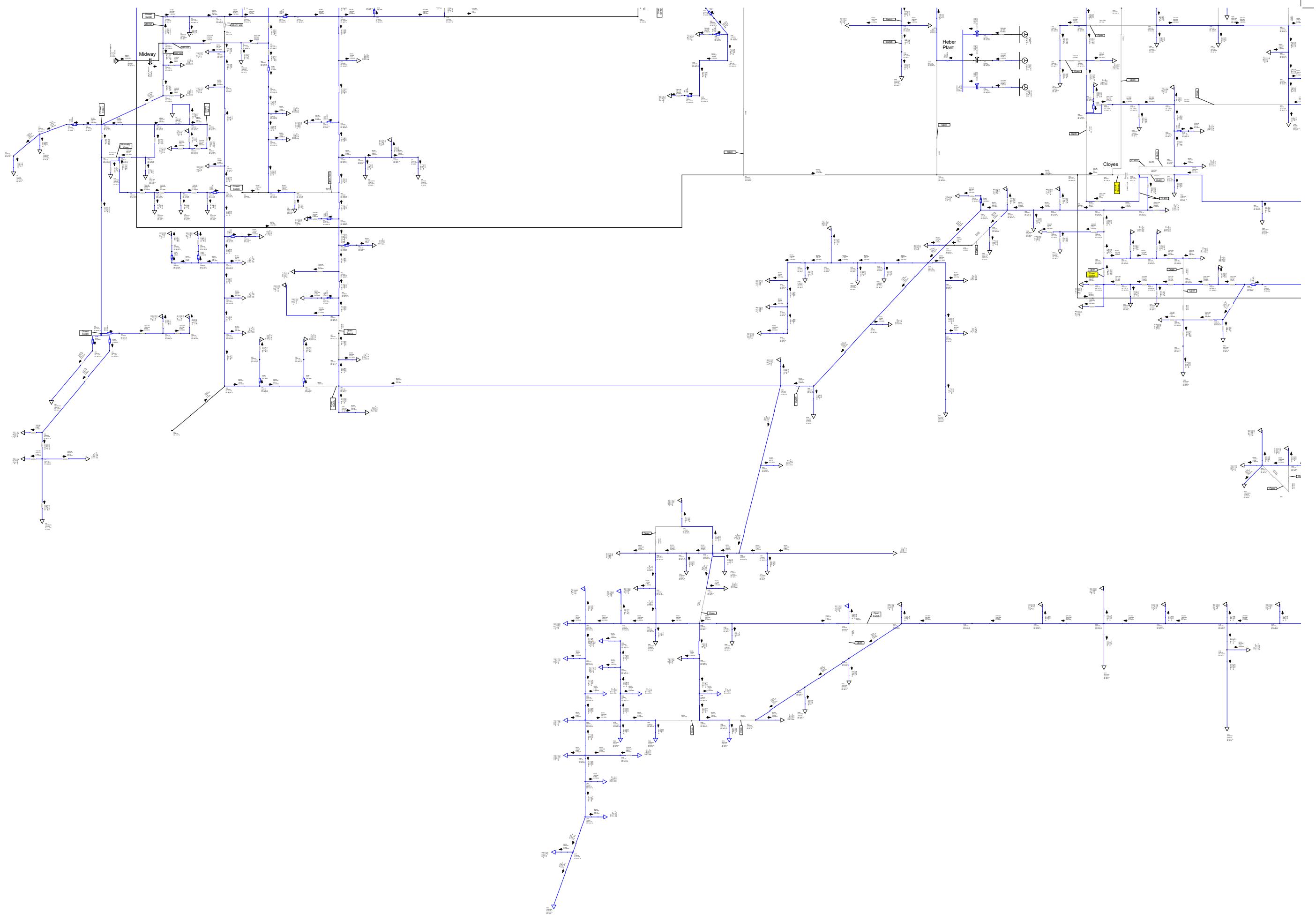
Heber 12.47 kV
2018 - Loss of Cloyes transformer

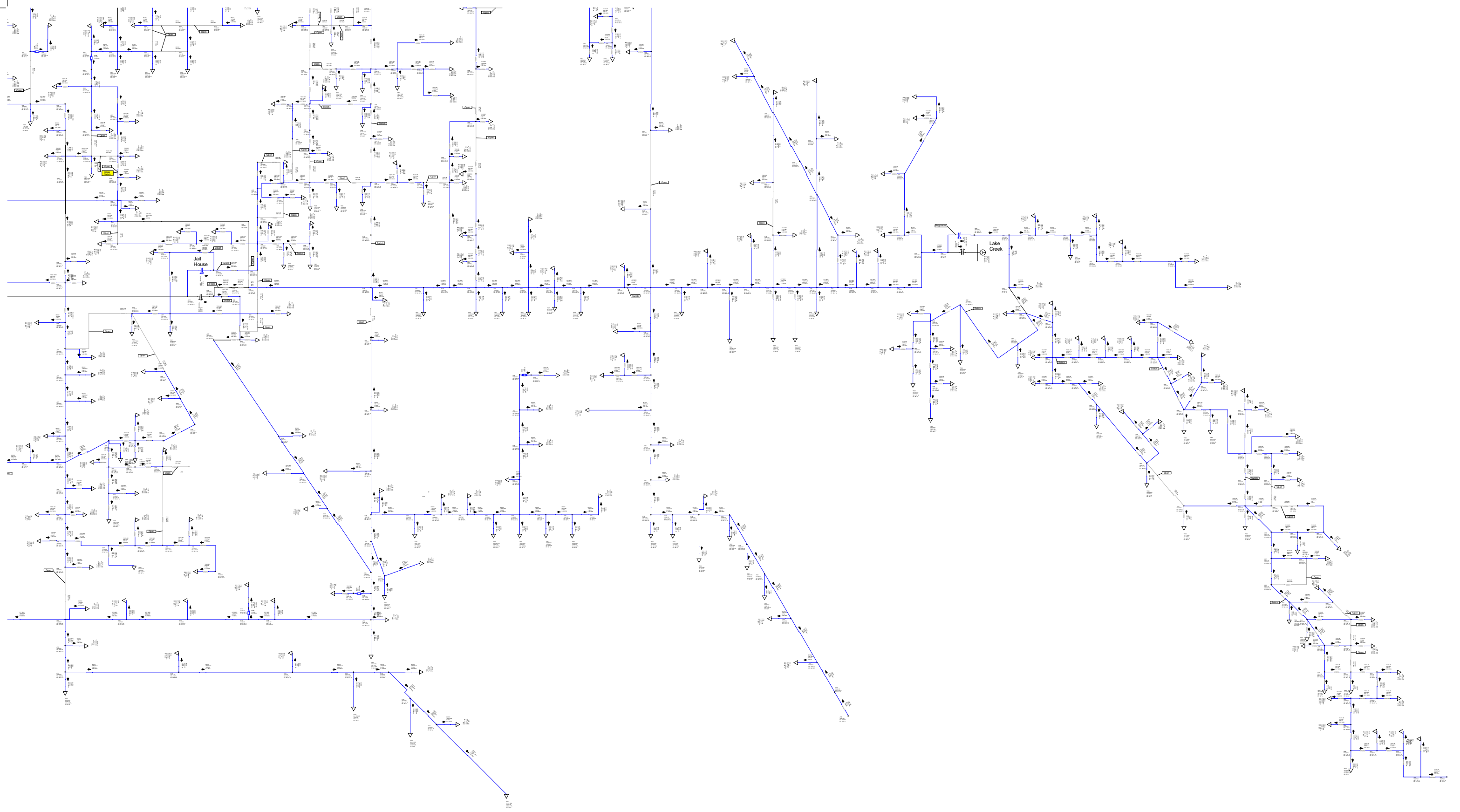
1. CL401 can be picked up by
HB304.

2. CL402 can be picked up by
HB303. There are voltage issues at
the end of the line (5% drop).









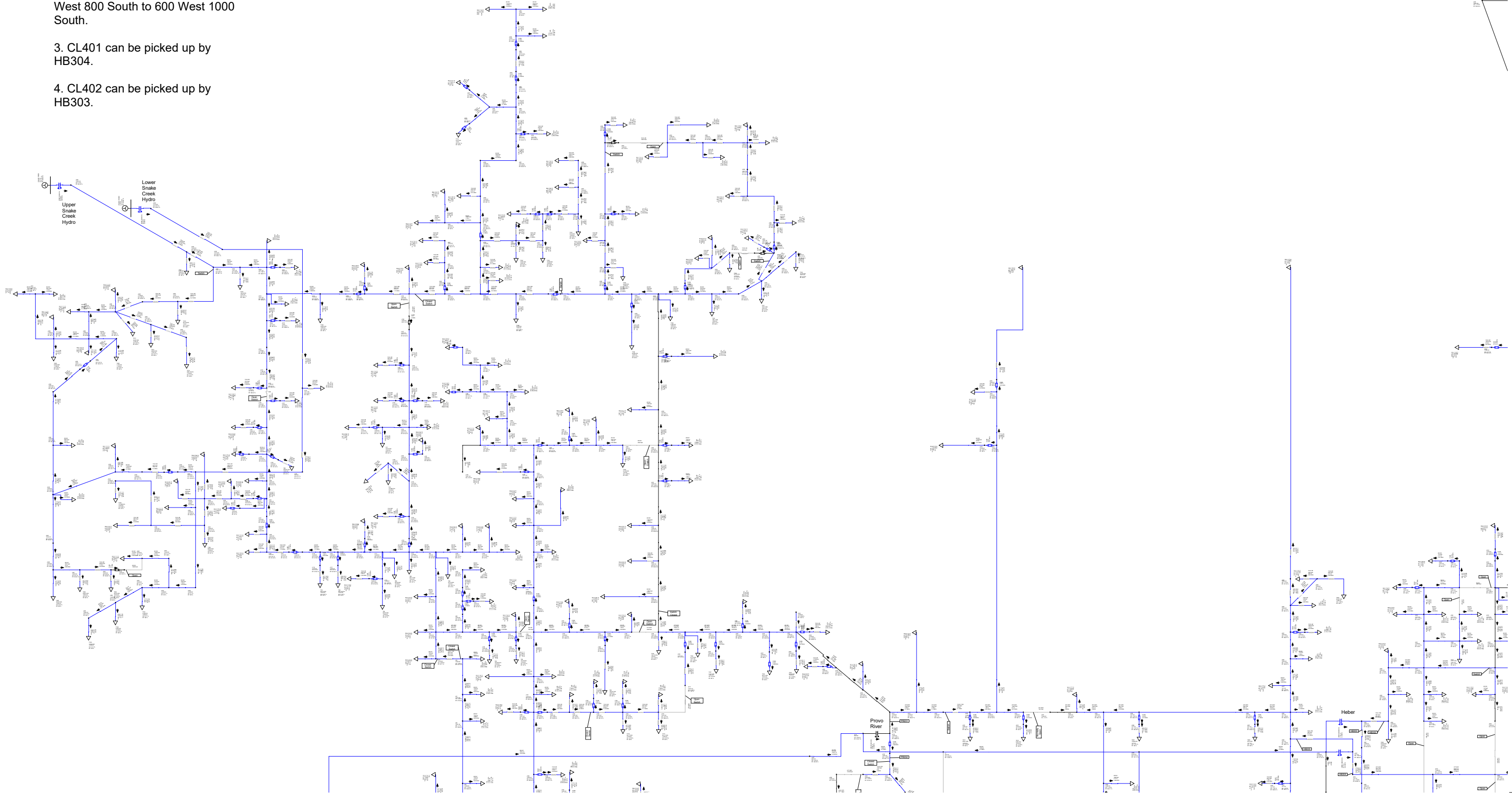
Heber 12.47 kV
2018 - Loss of Cloyes transformer
(After Upgrades)

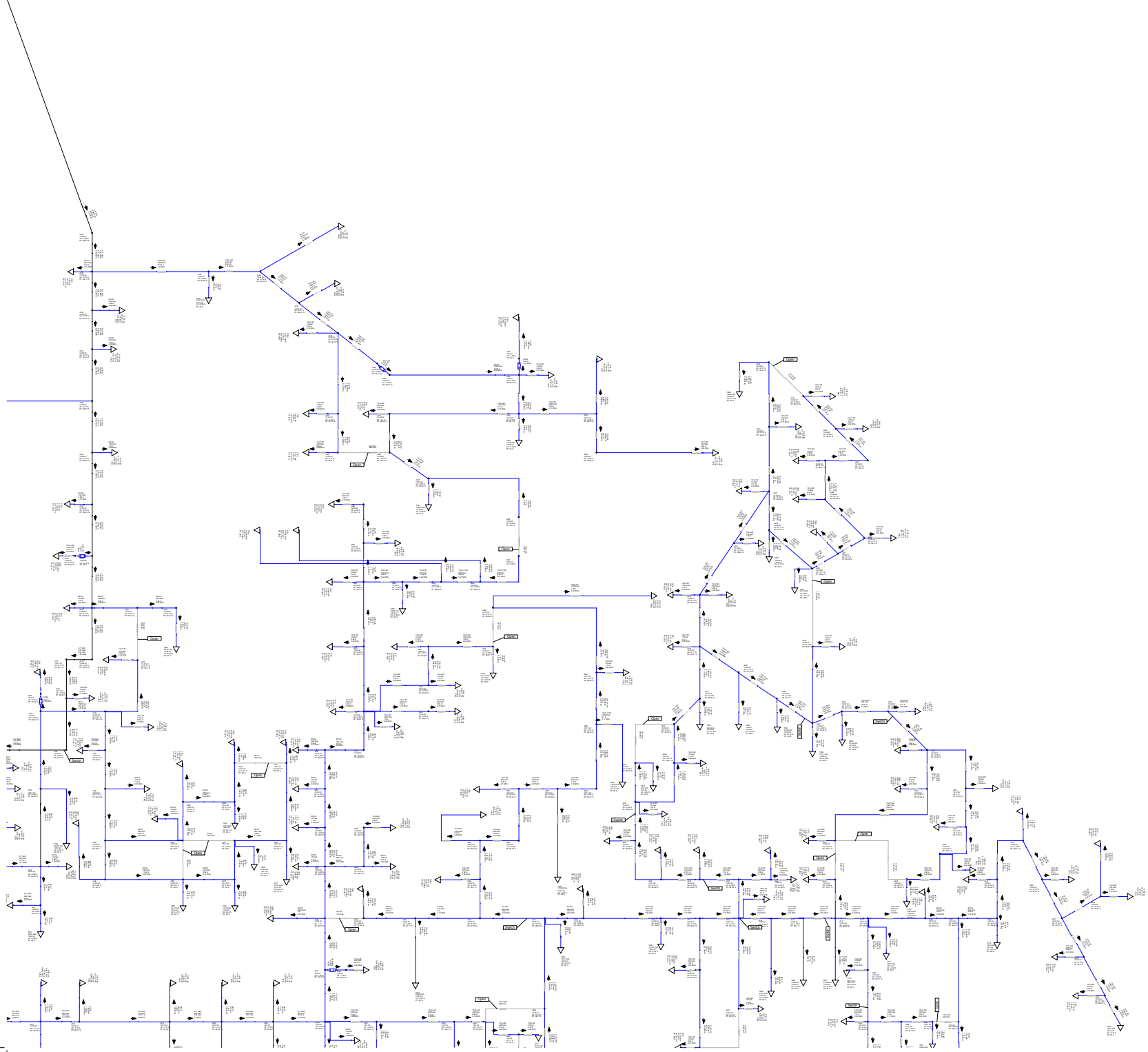
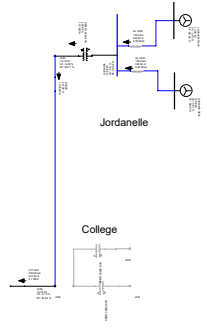
1. Upgrade CL402 circuit from
Cloyes substation to 2400 South
2650 West.

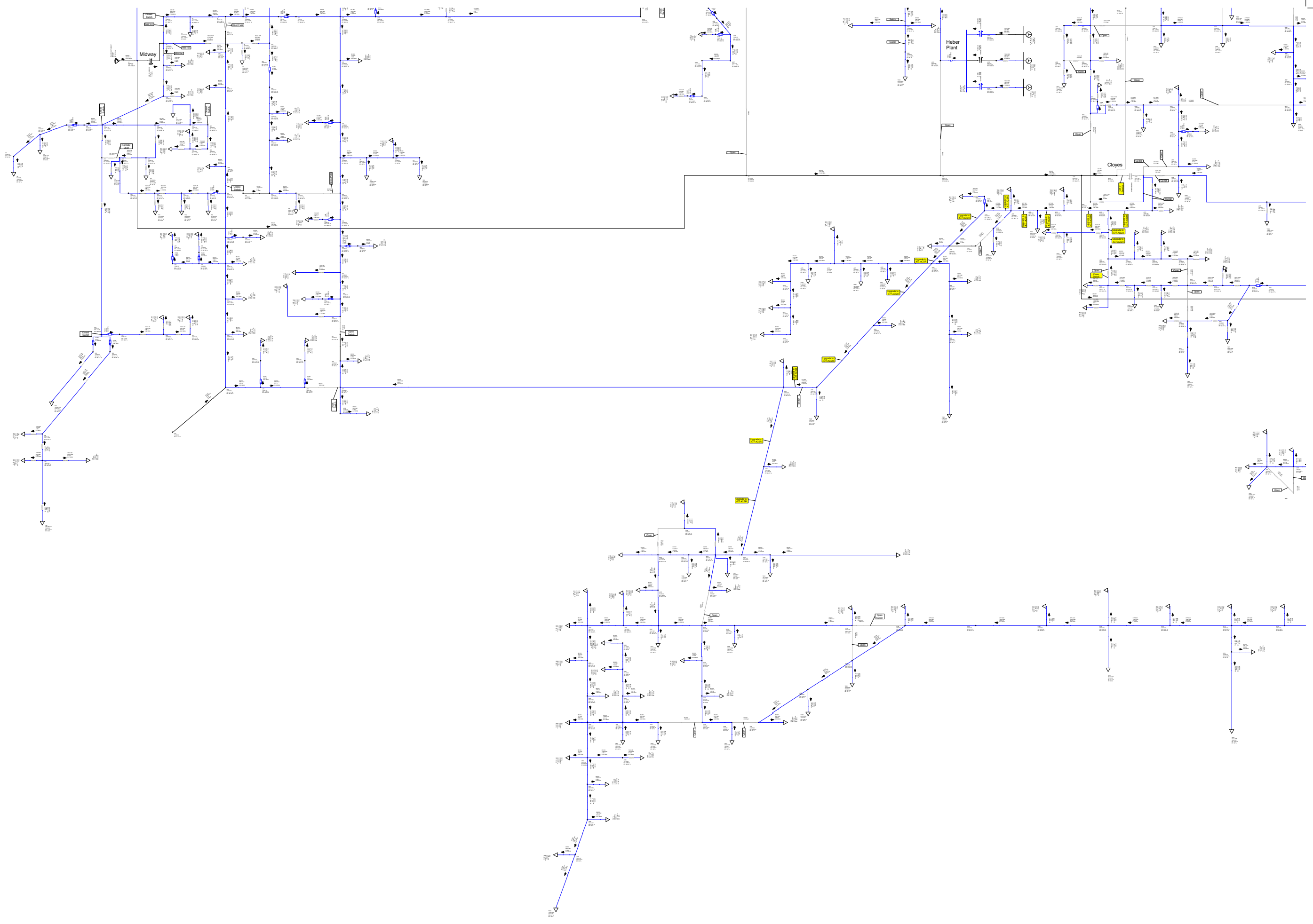
2. Upgrade CL402 circuit from 600
West 800 South to 600 West 1000
South.

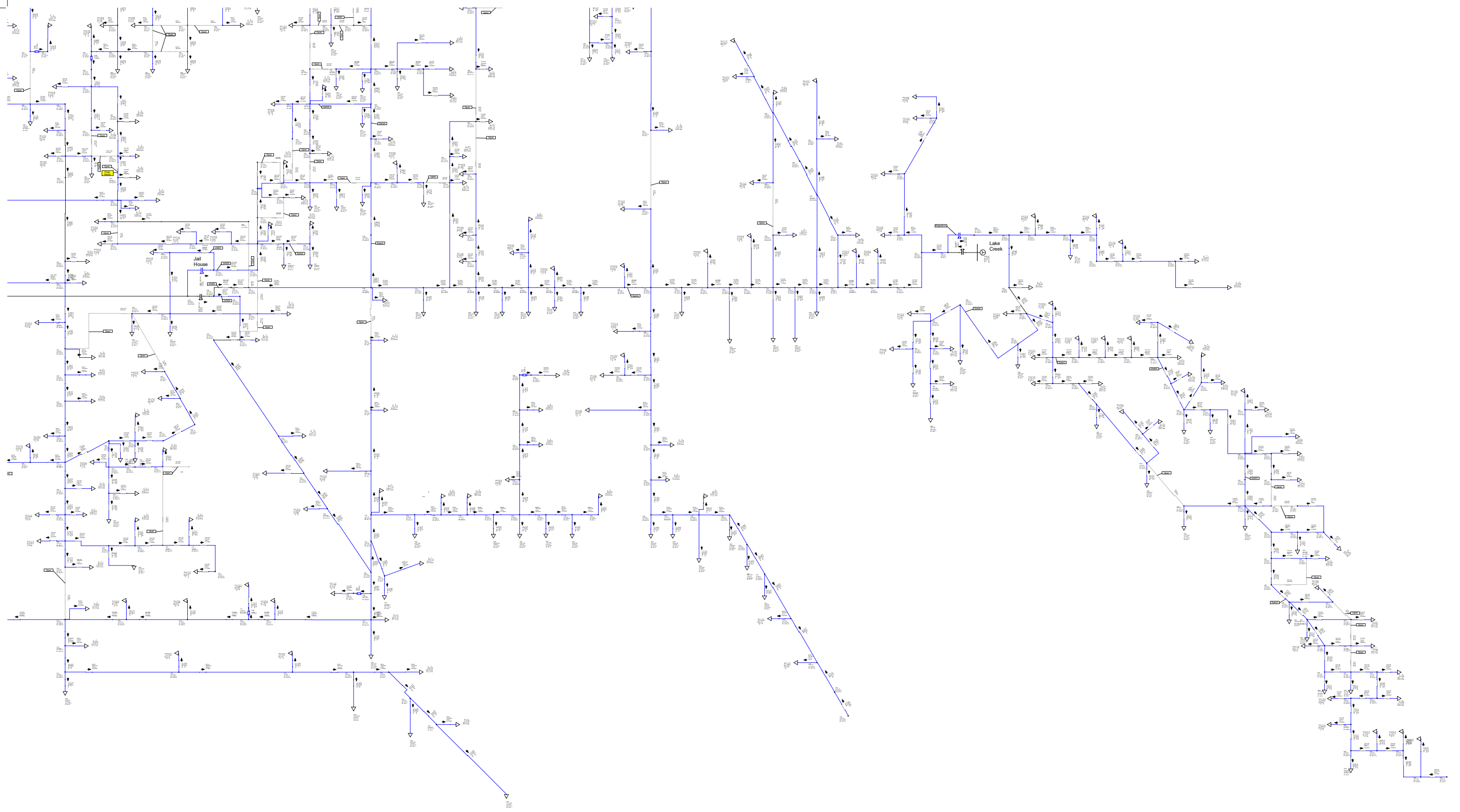
3. CL401 can be picked up by
HB304.

4. CL402 can be picked up by
HB303.





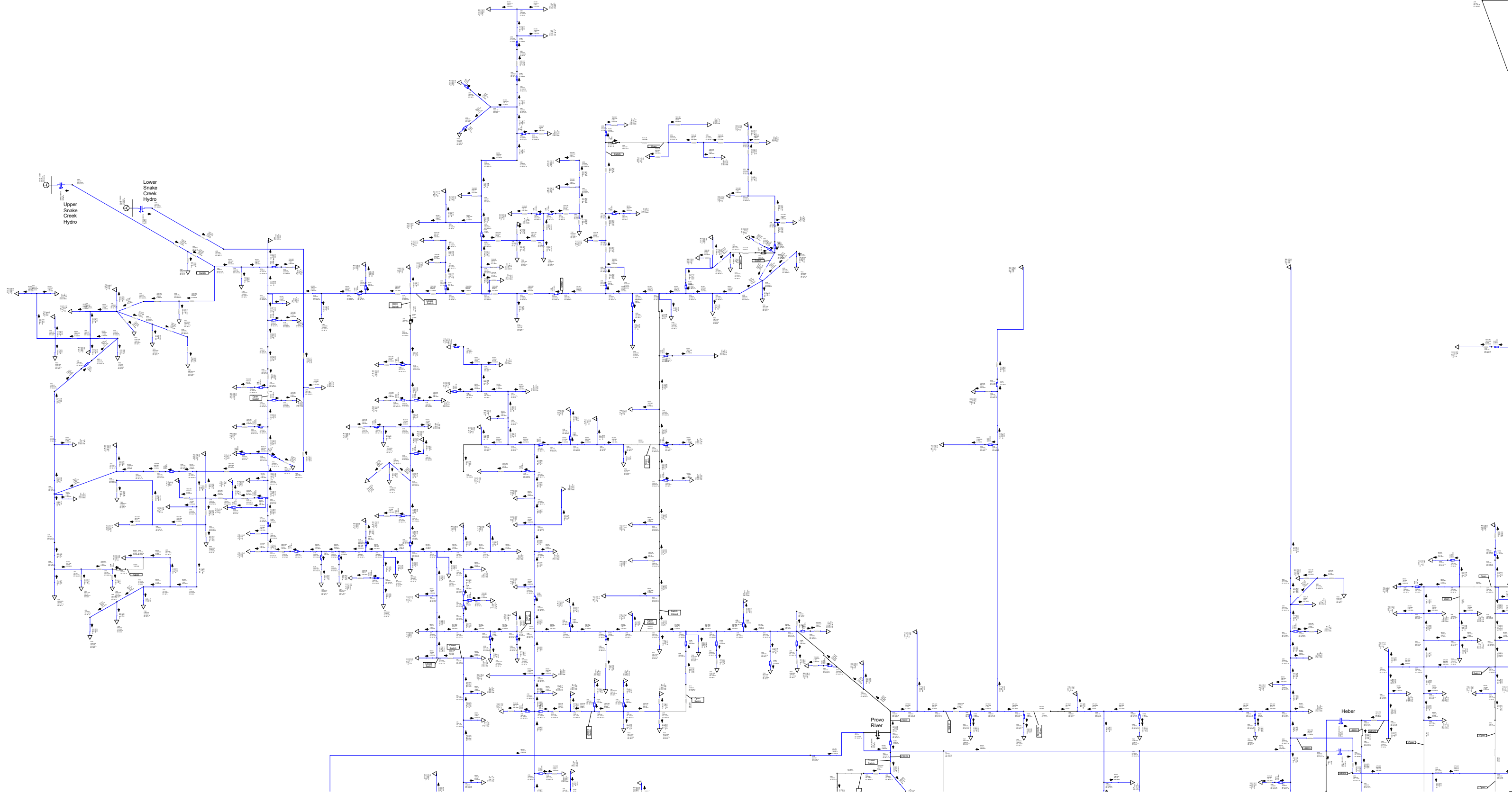


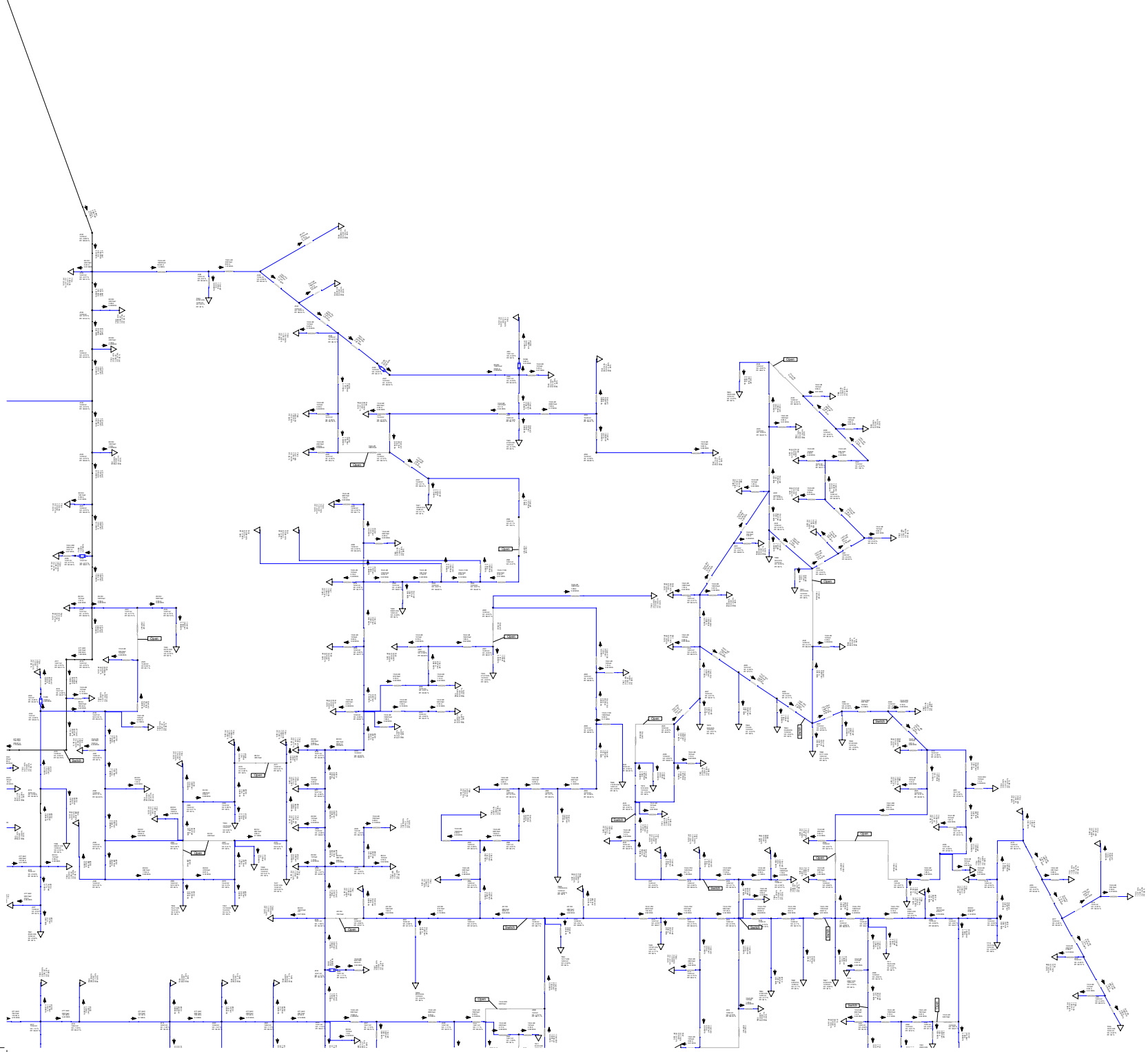
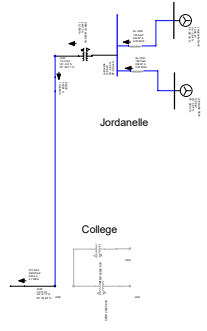


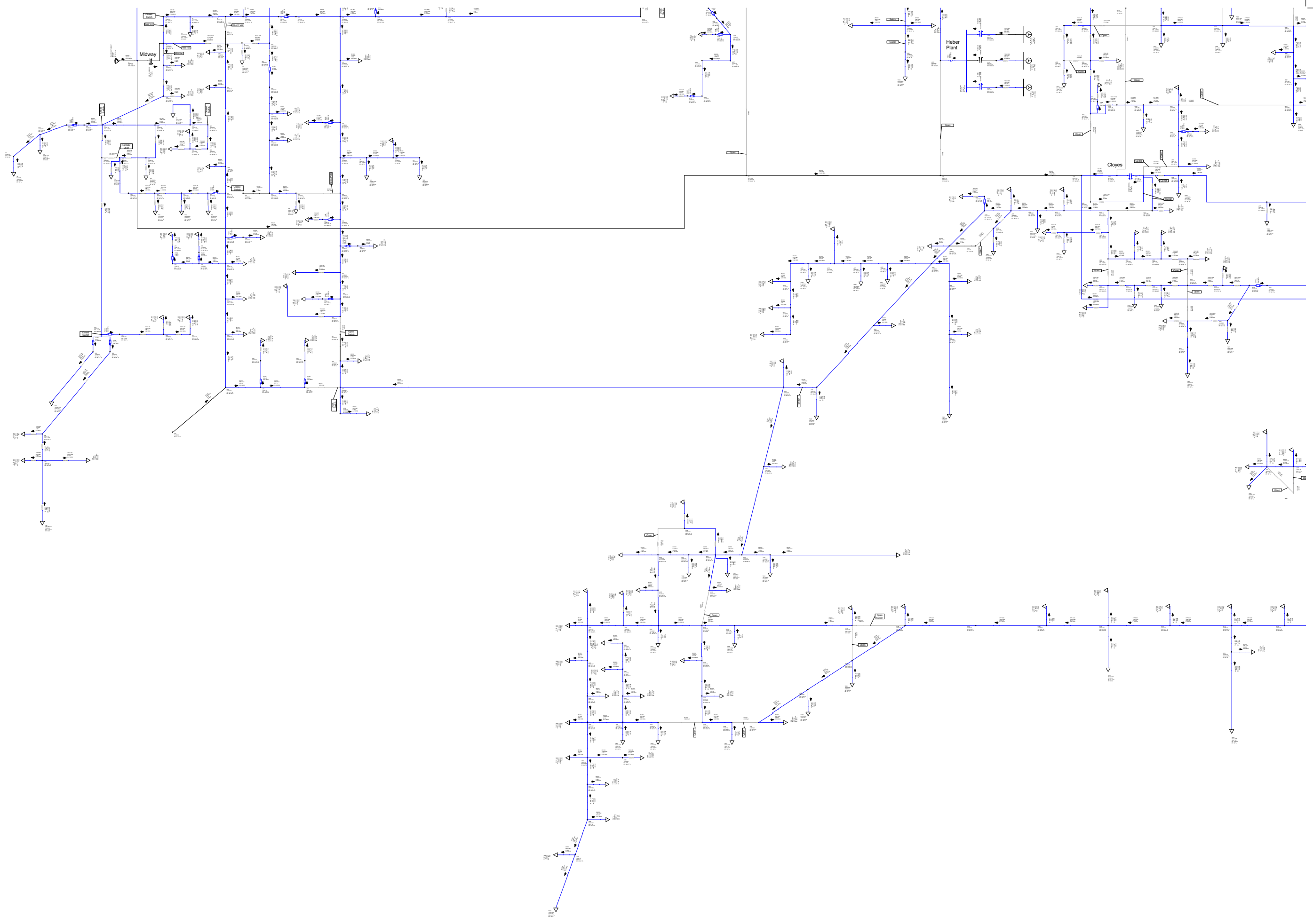
Heber 12.47 kV
2018 - Loss of Jailhouse T1 transformer

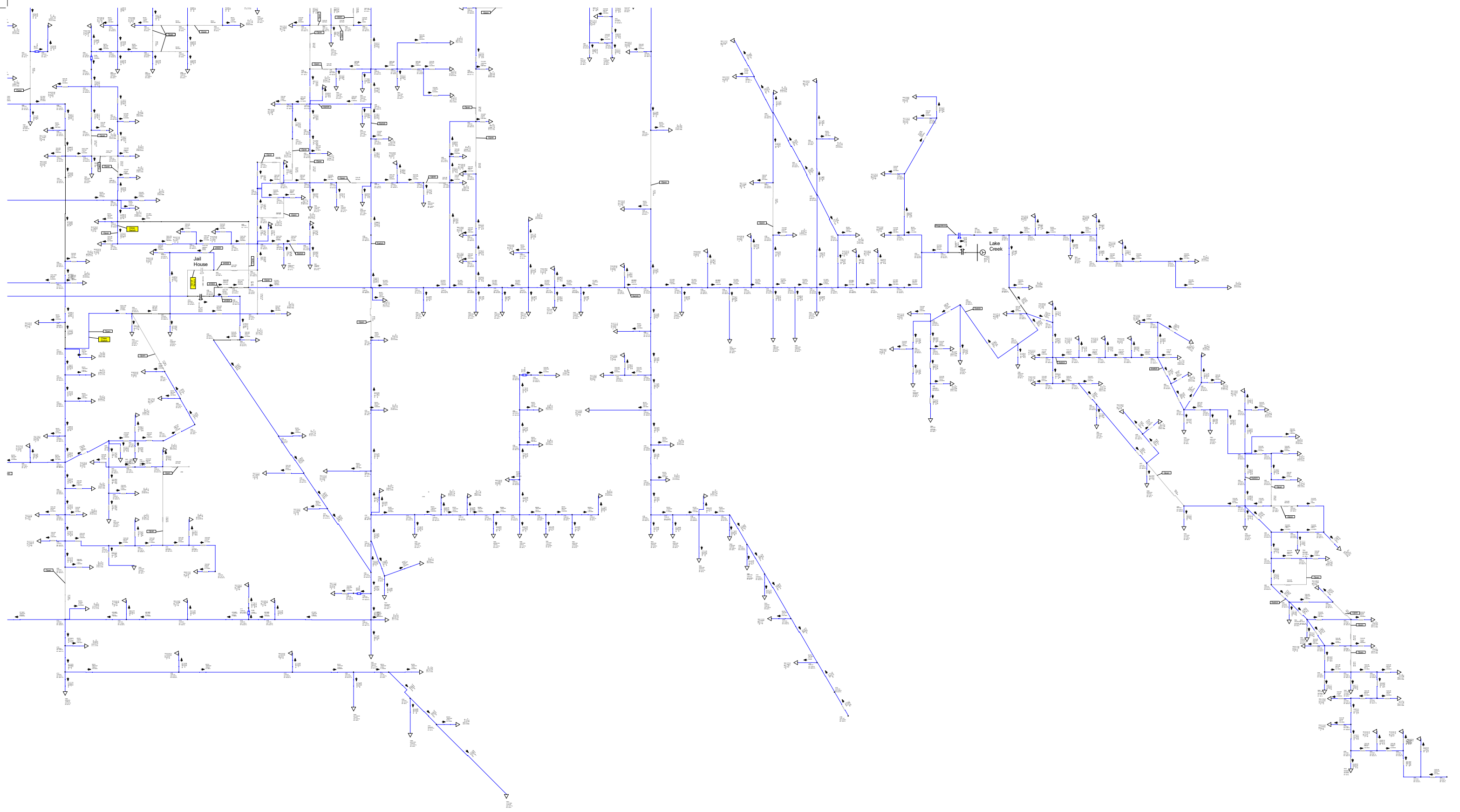
1. JH501 circuit can be picked up by
HB303.

2. JH503 circuit can be picked up by
CL401.









Heber 12.47 kV
2018 - Loss of Jailhouse T2 transformer

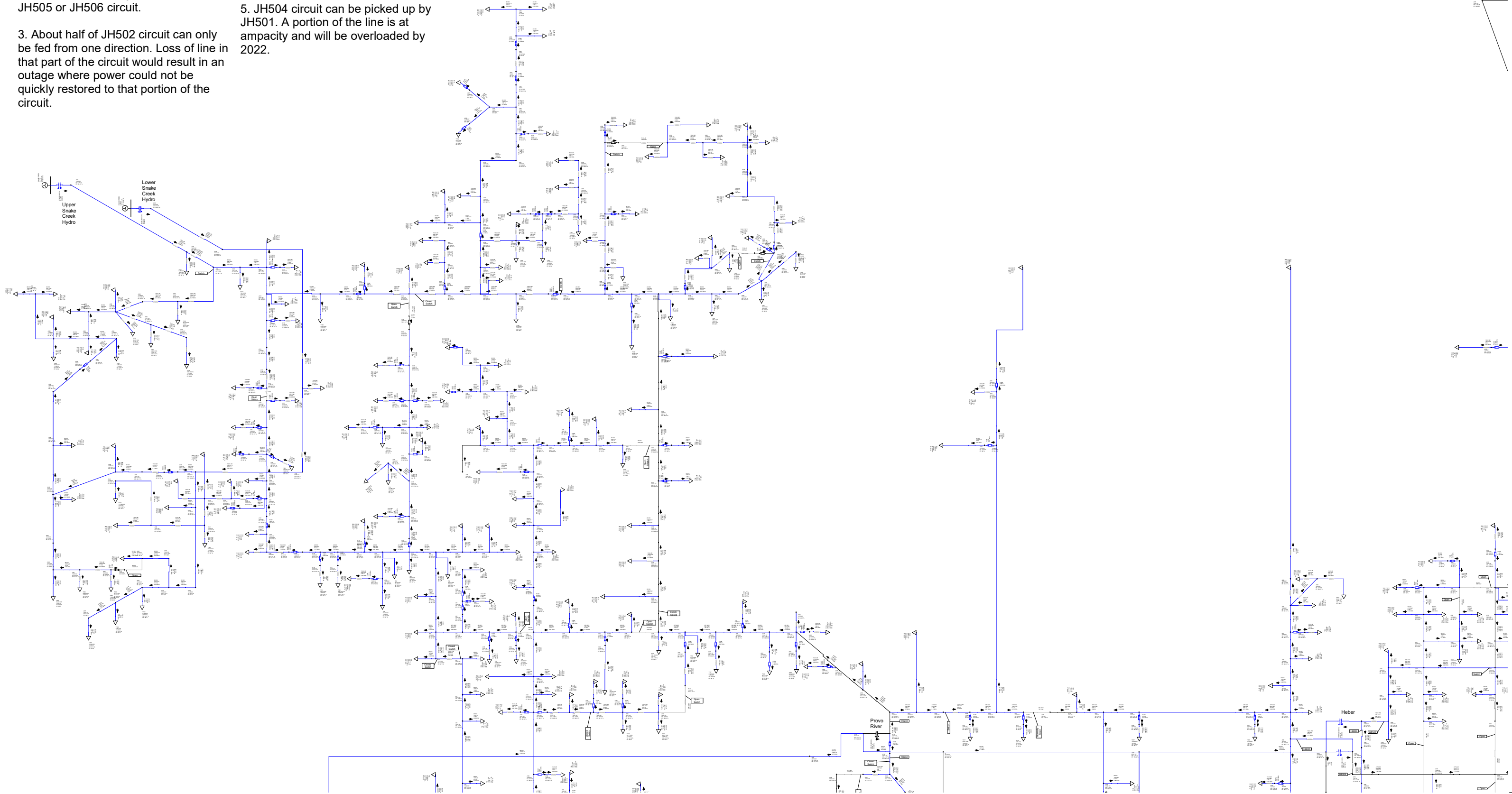
1. Model shows voltage issues on JH502 during peak load (4% drop).

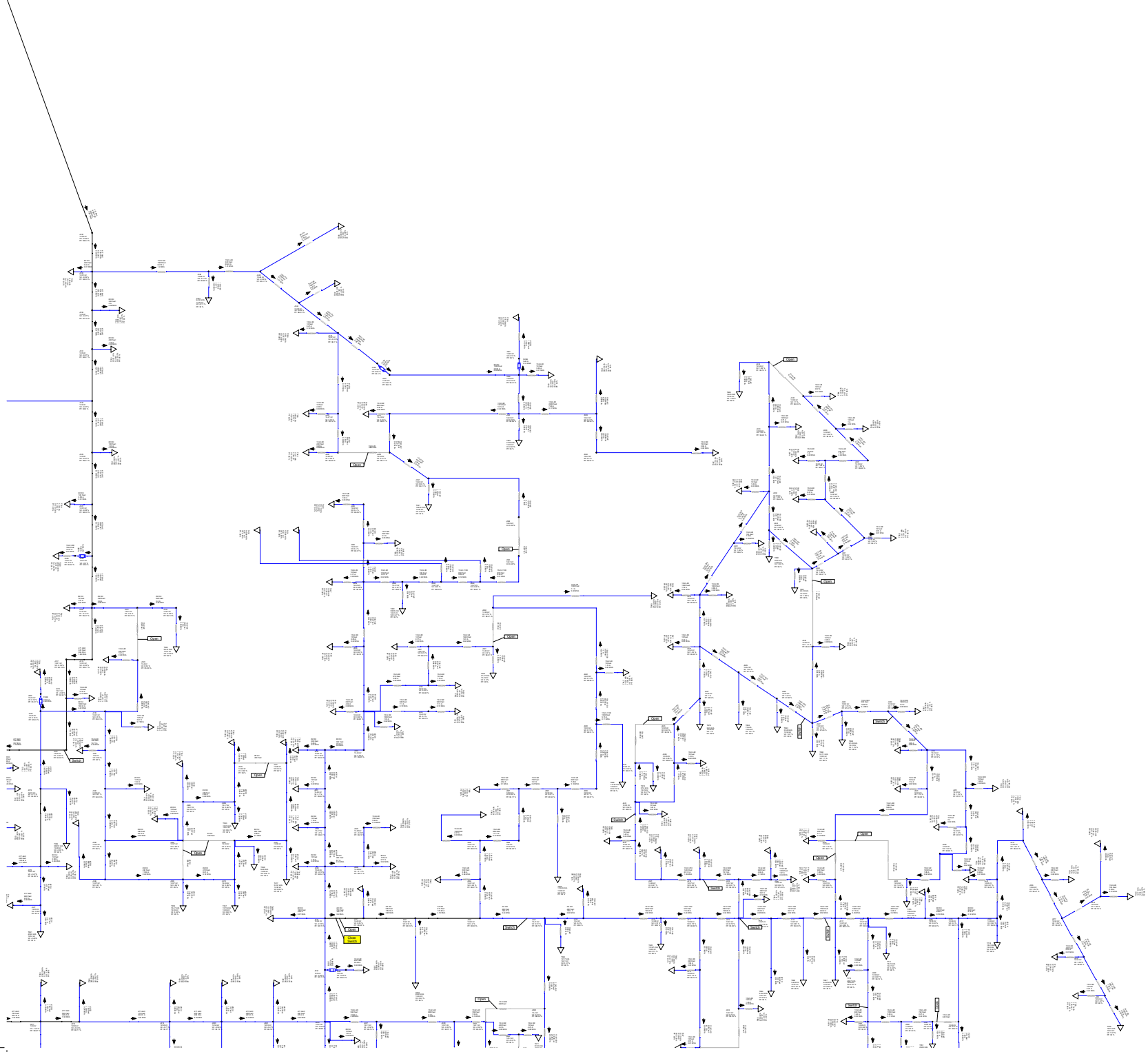
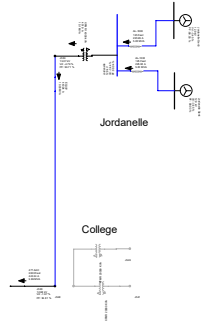
2. JH502 load is approximately 382 amps when Lake Creek generation is off. A new substation to the West of Jailhouse is probably necessary in the future. Could possibly shift load to new JH505 or JH506 circuit.

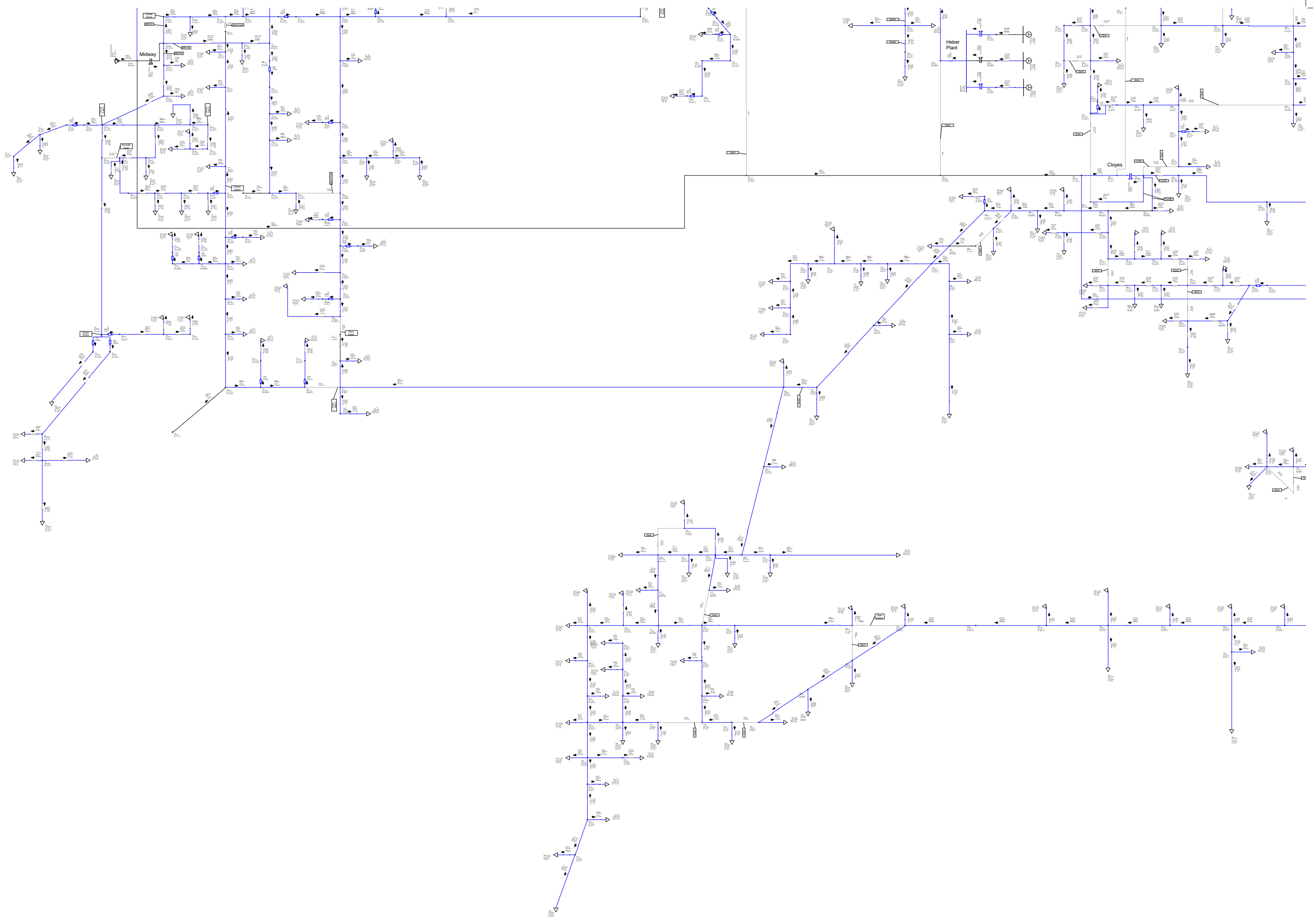
3. About half of JH502 circuit can only be fed from one direction. Loss of line in that part of the circuit would result in an outage where power could not be quickly restored to that portion of the circuit.

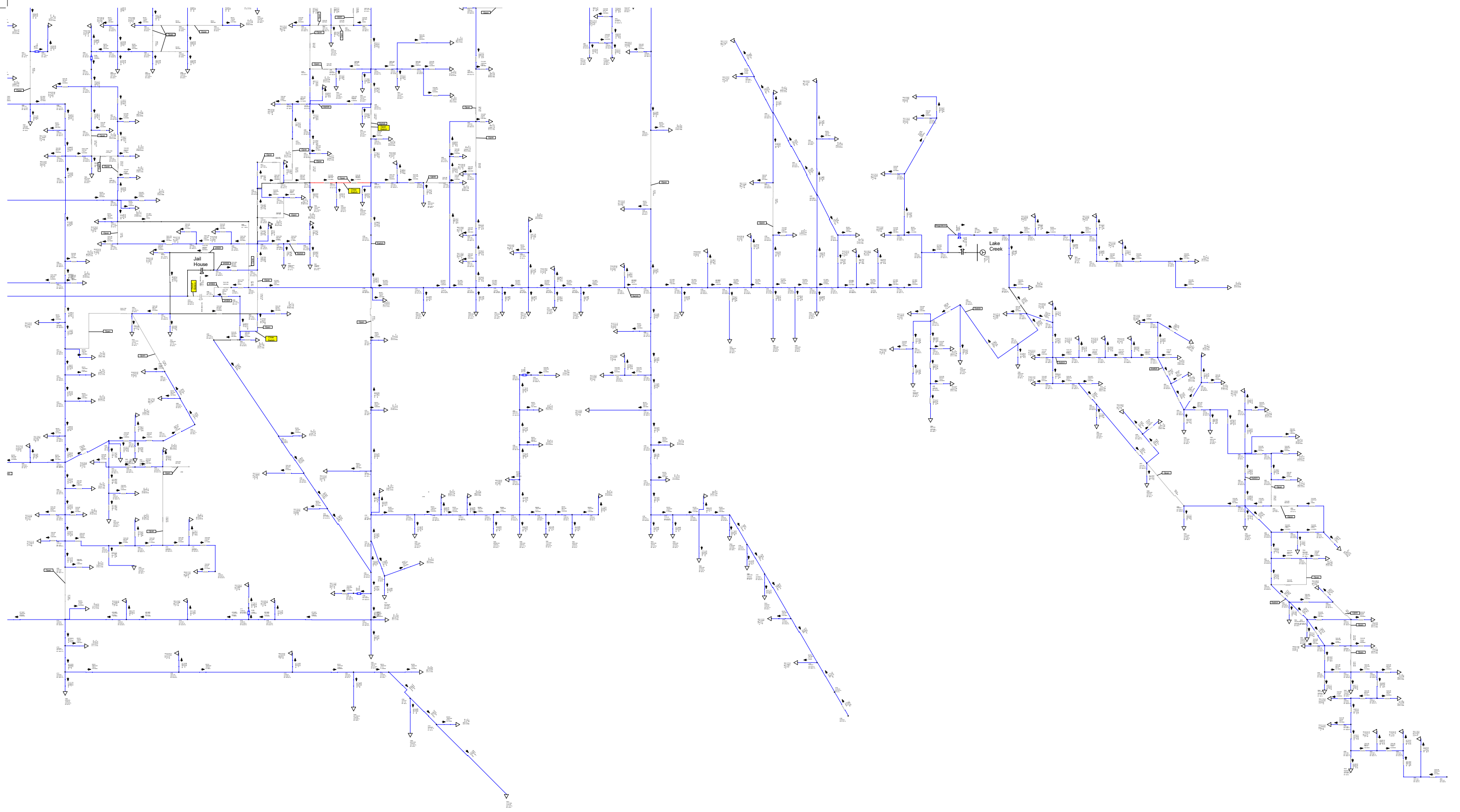
4. The top half of JH502 circuit can be picked up by HB304. The bottom half can be picked up by JH503. No single circuit can pick up the entire JH502 circuit. Part of JH502 and JH503 circuits would be overloaded. There are voltage issues at the end of the line.

5. JH504 circuit can be picked up by JH501. A portion of the line is at ampacity and will be overloaded by 2022.









Heber 12.47 kV
2018 - Loss of Jailhouse T2 transformer
(After Upgrades)

1. Install voltage regulators on JH502 at approximately 8000 East Lake Creek Road.

2. Upgrade JH502 and JH503 circuits from 800 South Old Mill Drive to 2200 South Old Mill Drive.

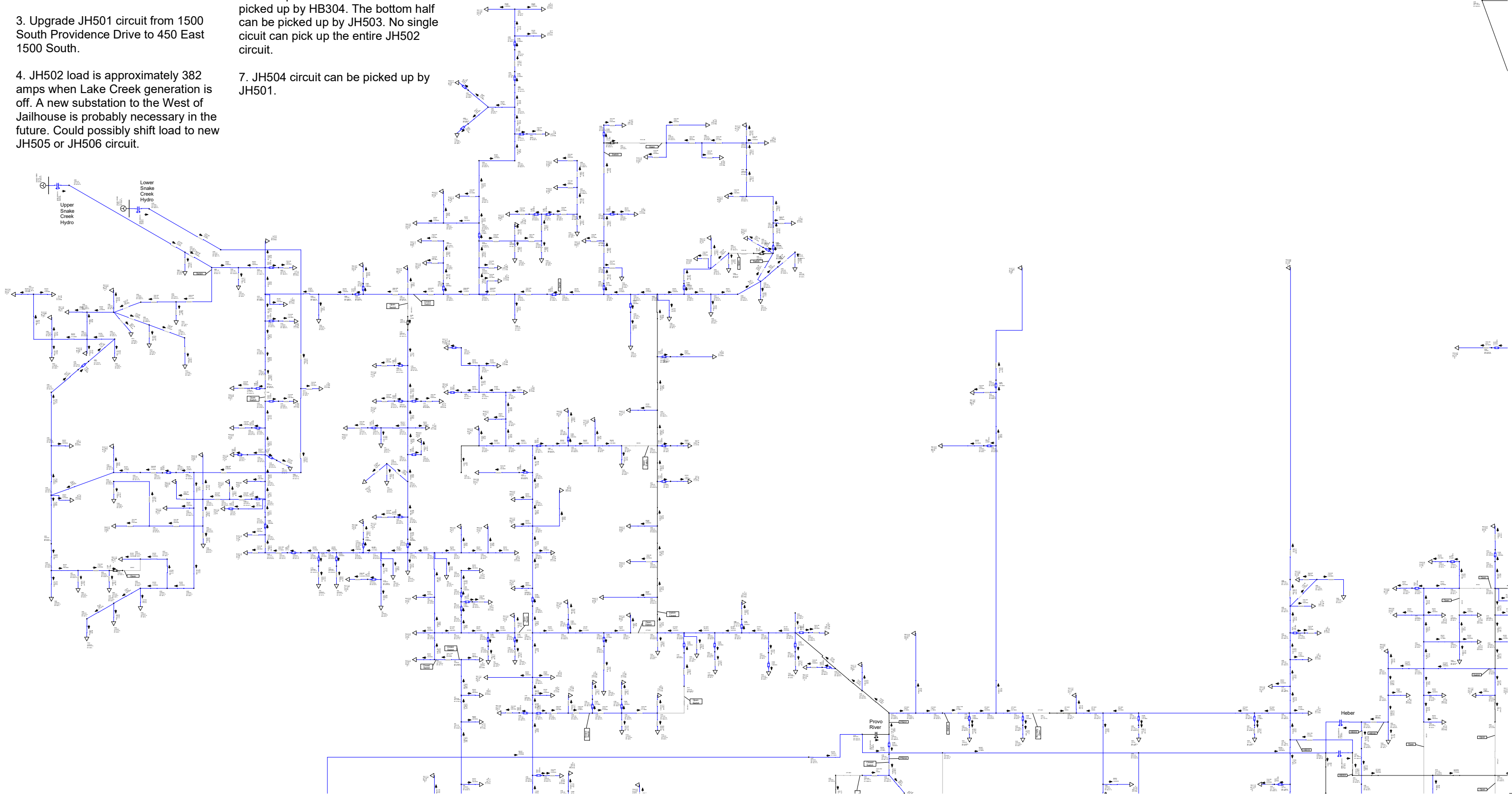
3. Upgrade JH501 circuit from 1500 South Providence Drive to 450 East 1500 South.

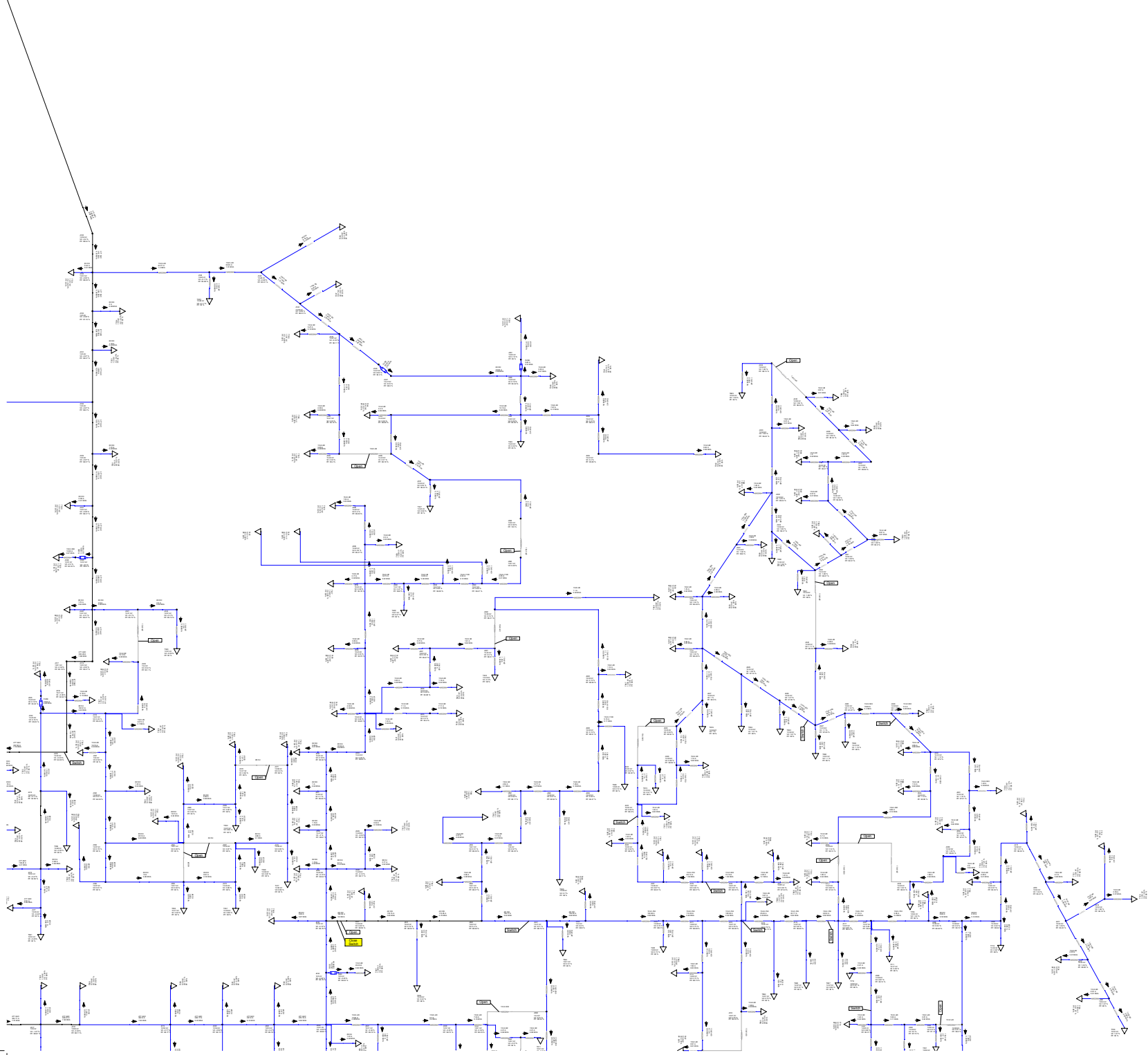
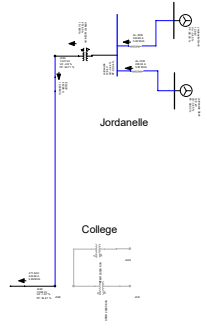
4. JH502 load is approximately 382 amps when Lake Creek generation is off. A new substation to the West of Jailhouse is probably necessary in the future. Could possibly shift load to new JH505 or JH506 circuit.

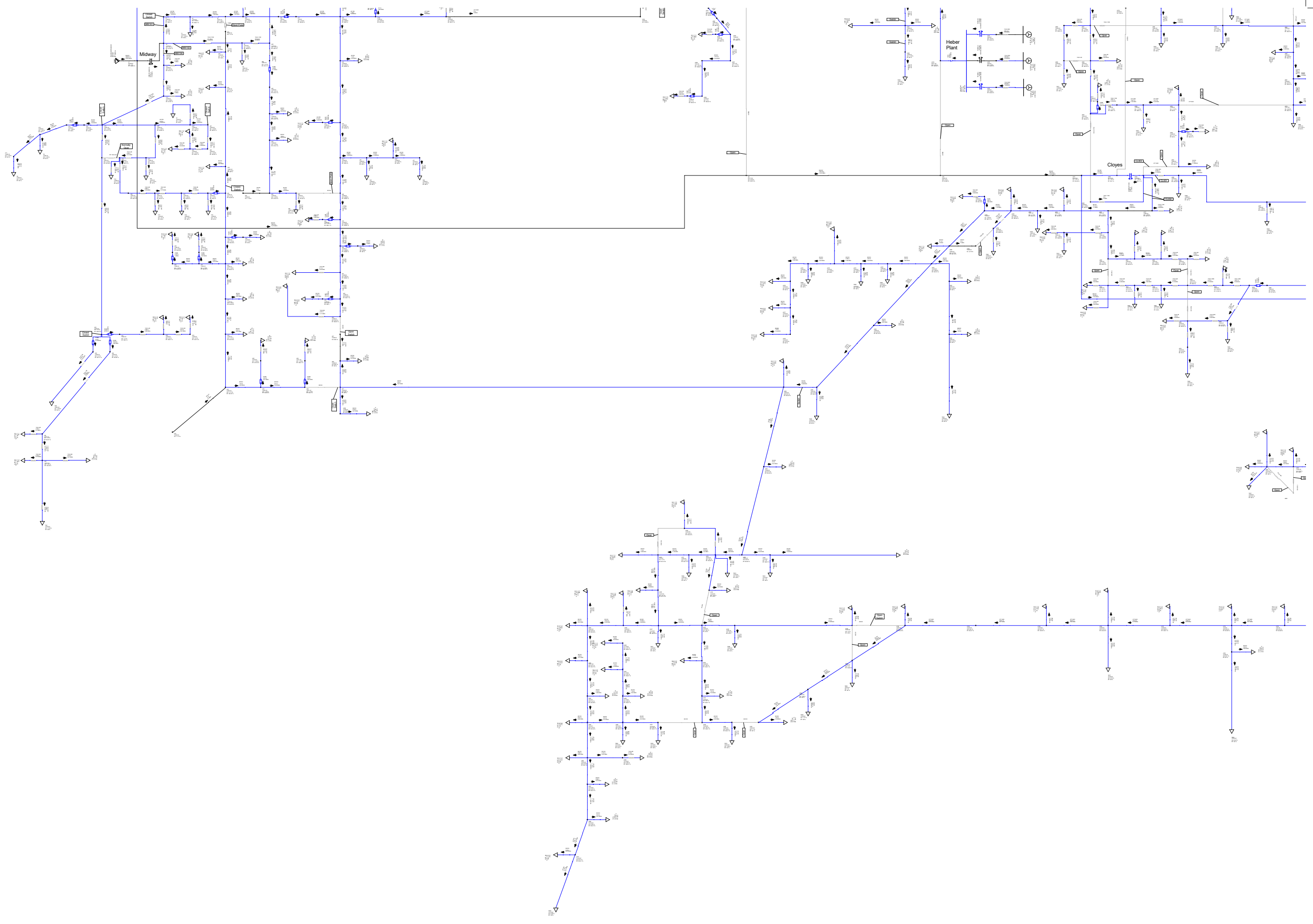
5. About half of JH502 circuit can only be fed from one direction. Loss of a line in that part of the circuit would result in an outage where power could not be quickly restored.

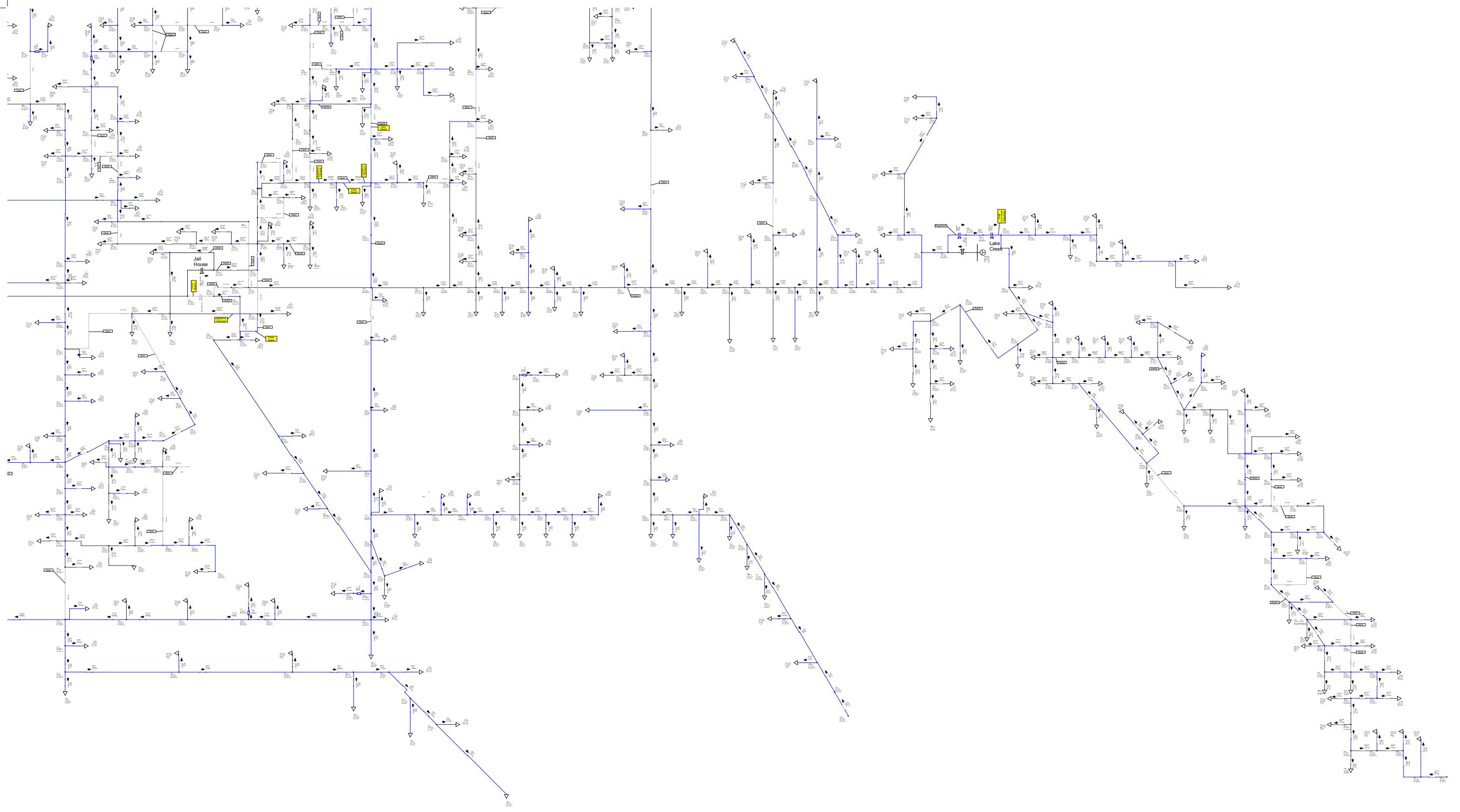
6. The top half of JH502 circuit can be picked up by HB304. The bottom half can be picked up by JH503. No single circuit can pick up the entire JH502 circuit.

7. JH504 circuit can be picked up by JH501.



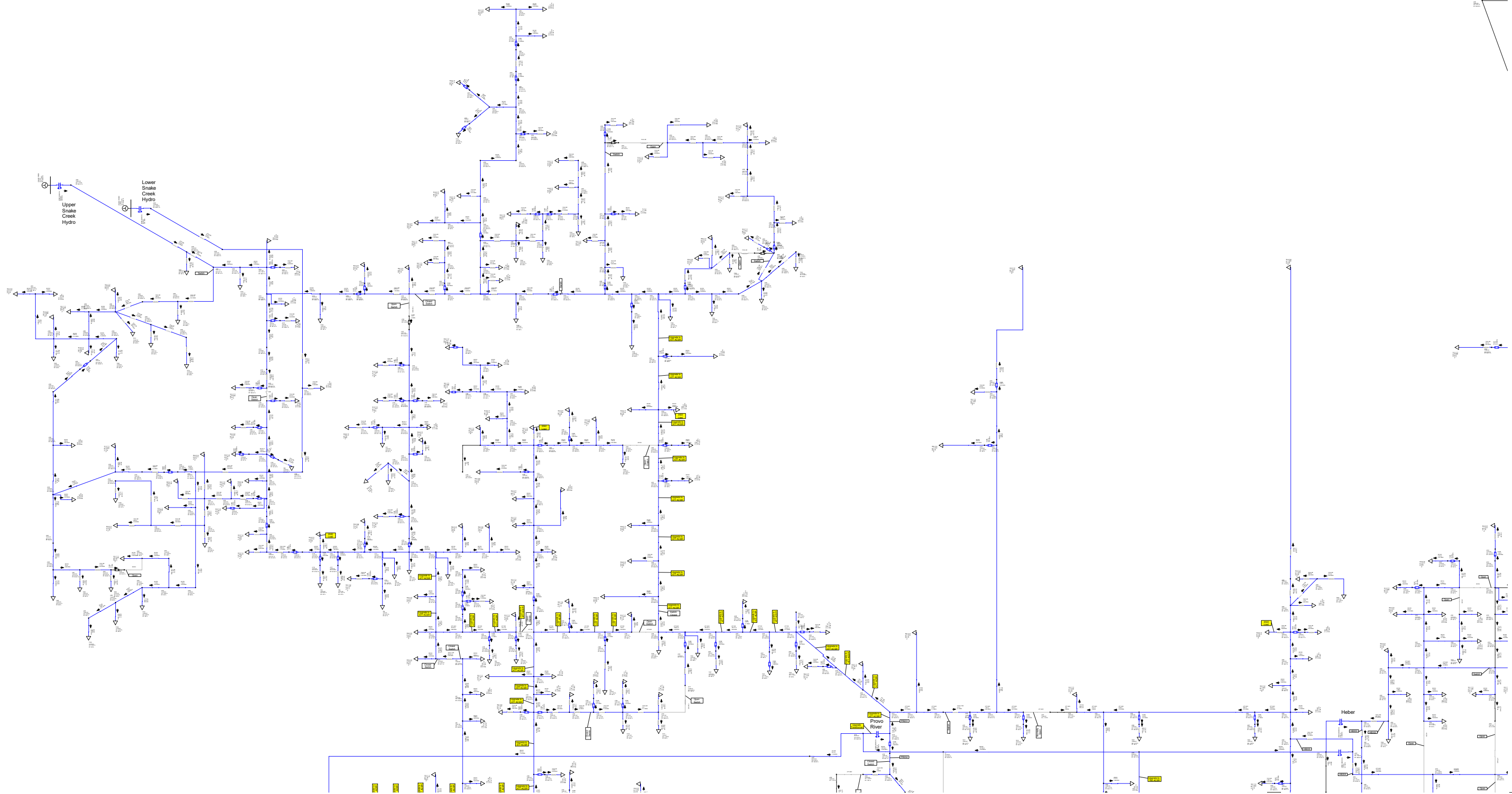


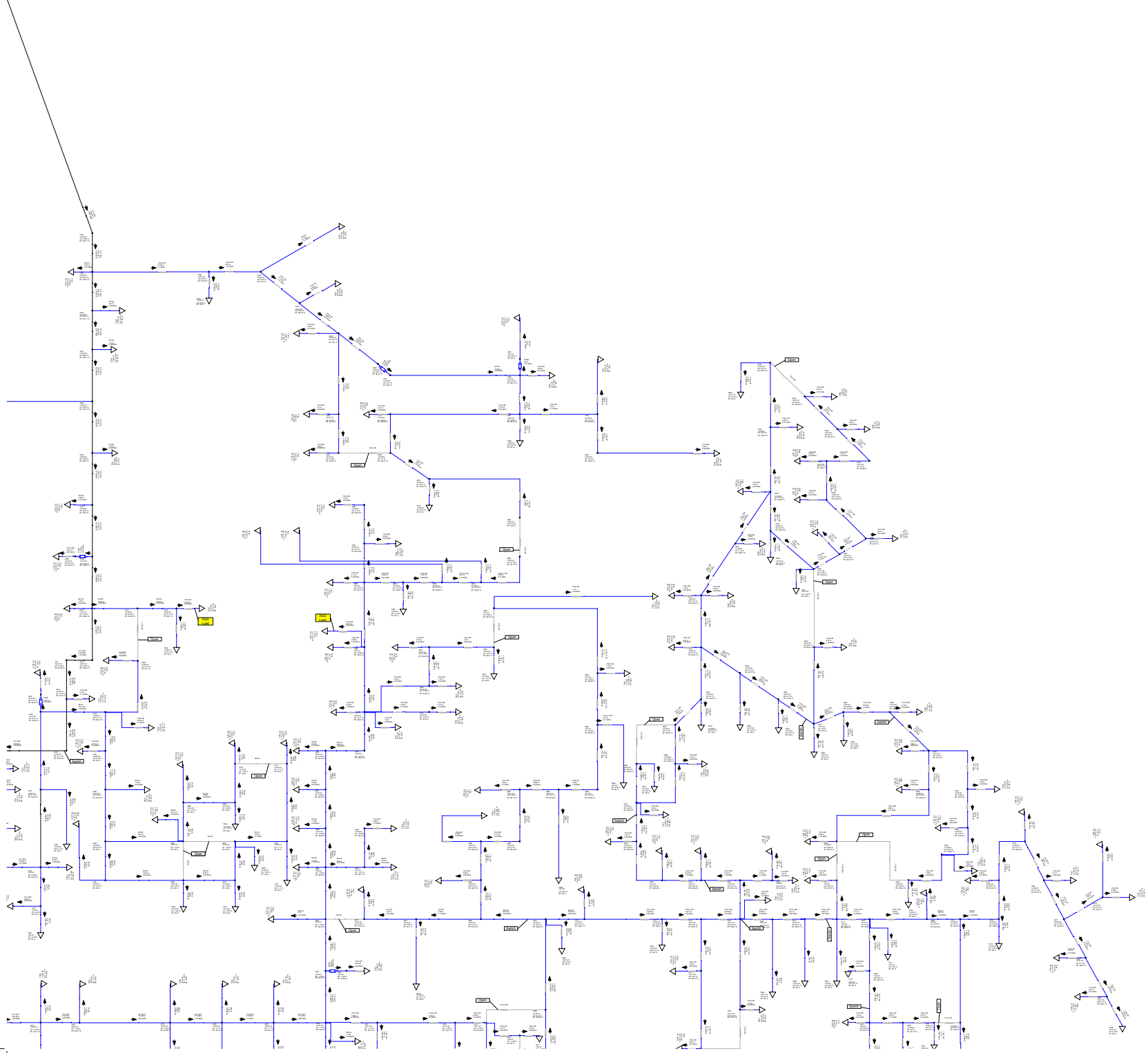
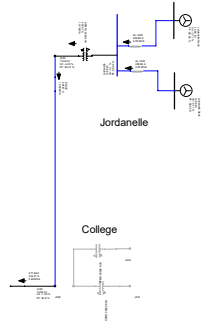


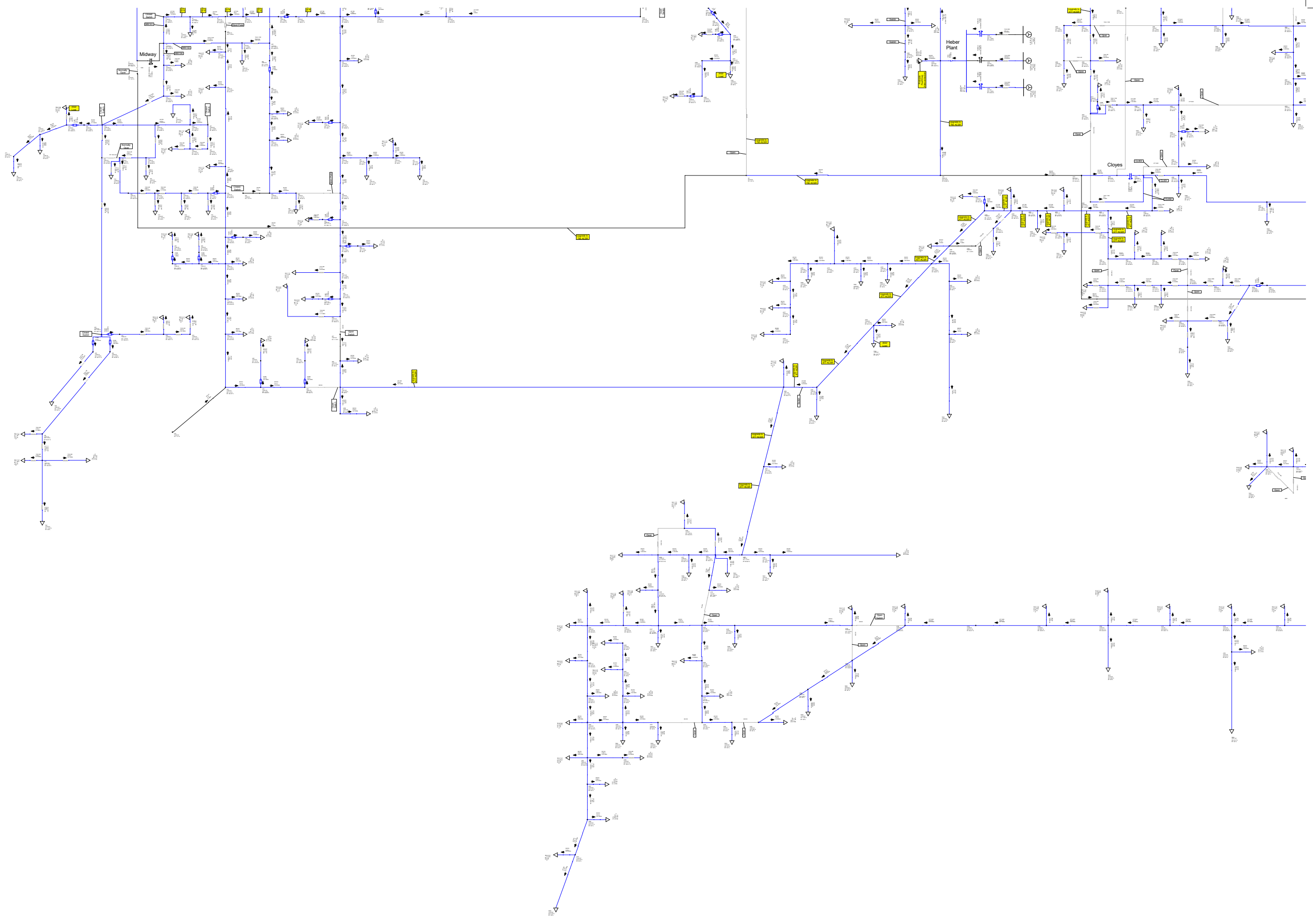


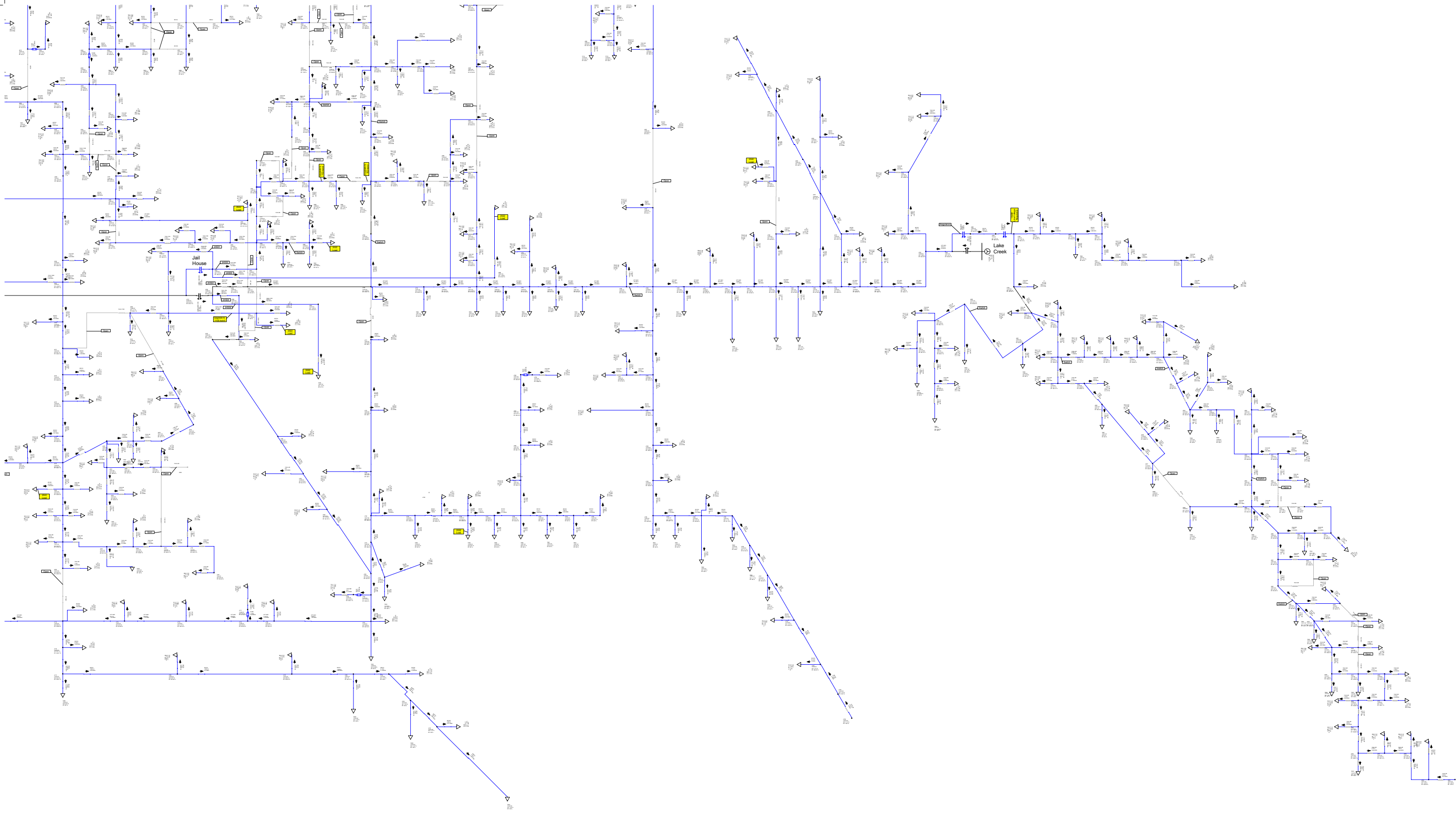
Heber 12.47 kV
2022 - Base

1. Includes all upgrades proposed in
2018 load flow runs.





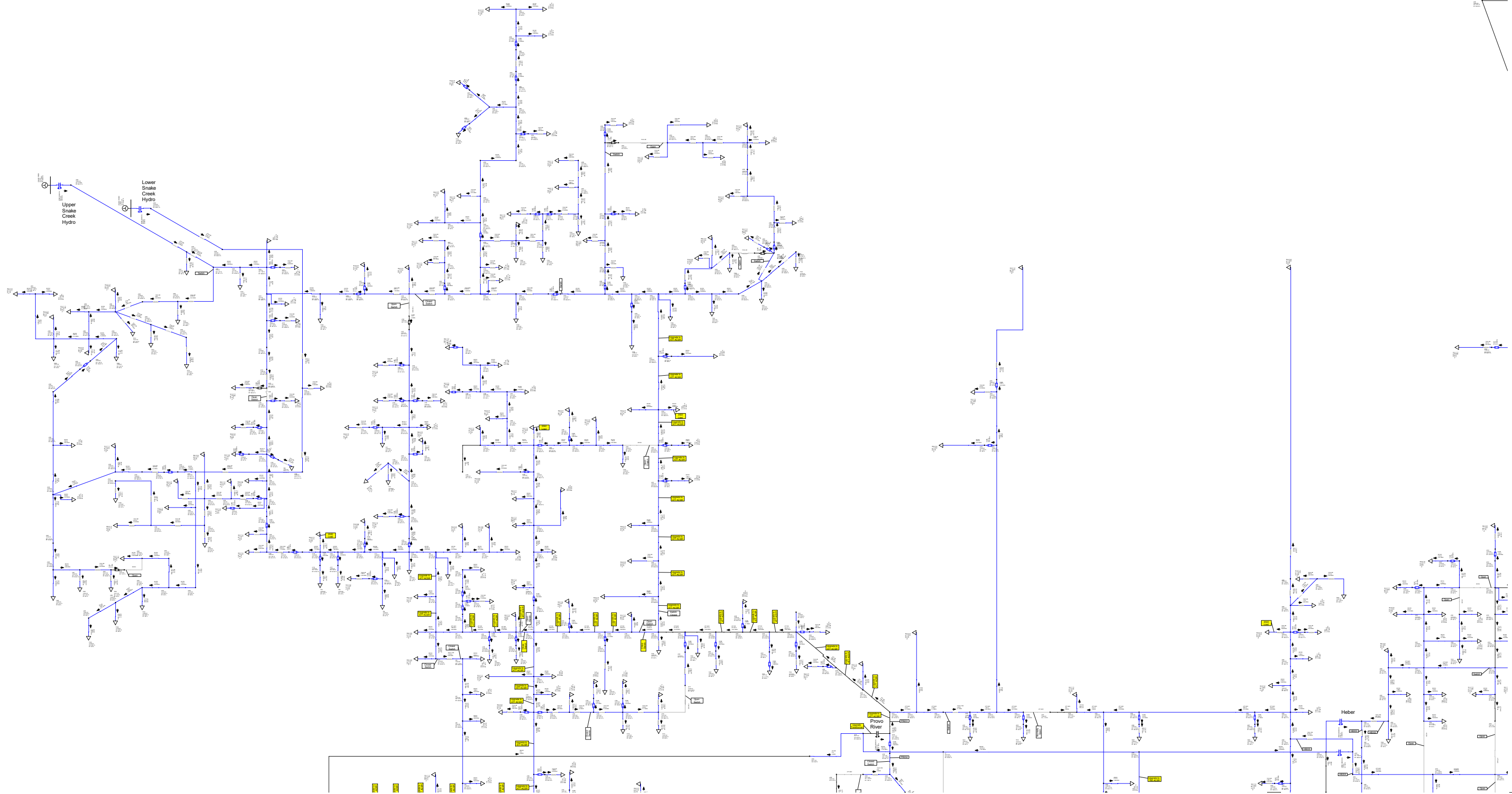


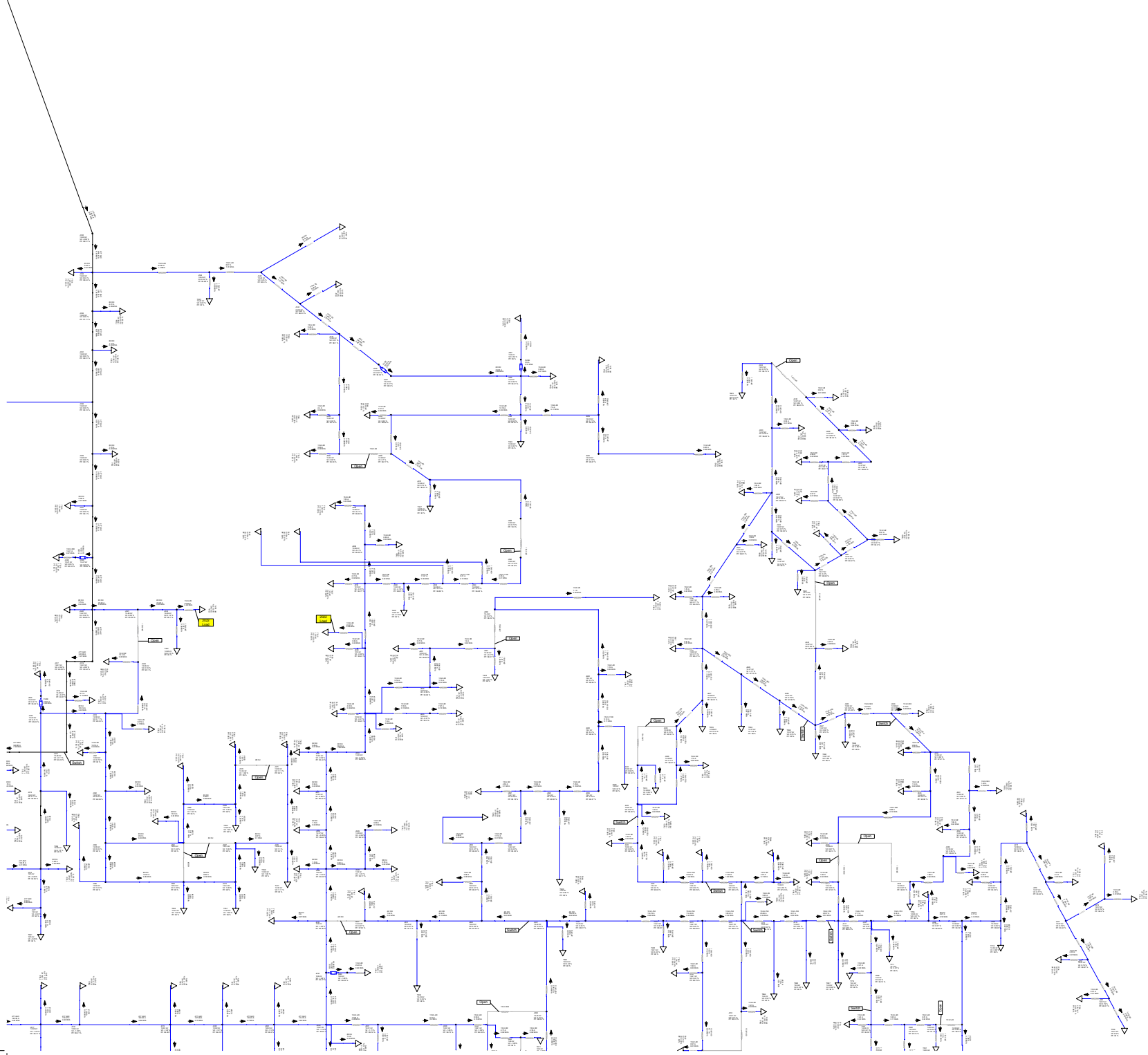
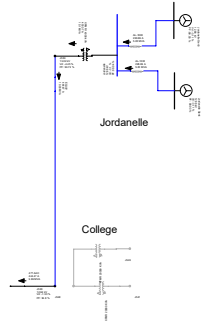


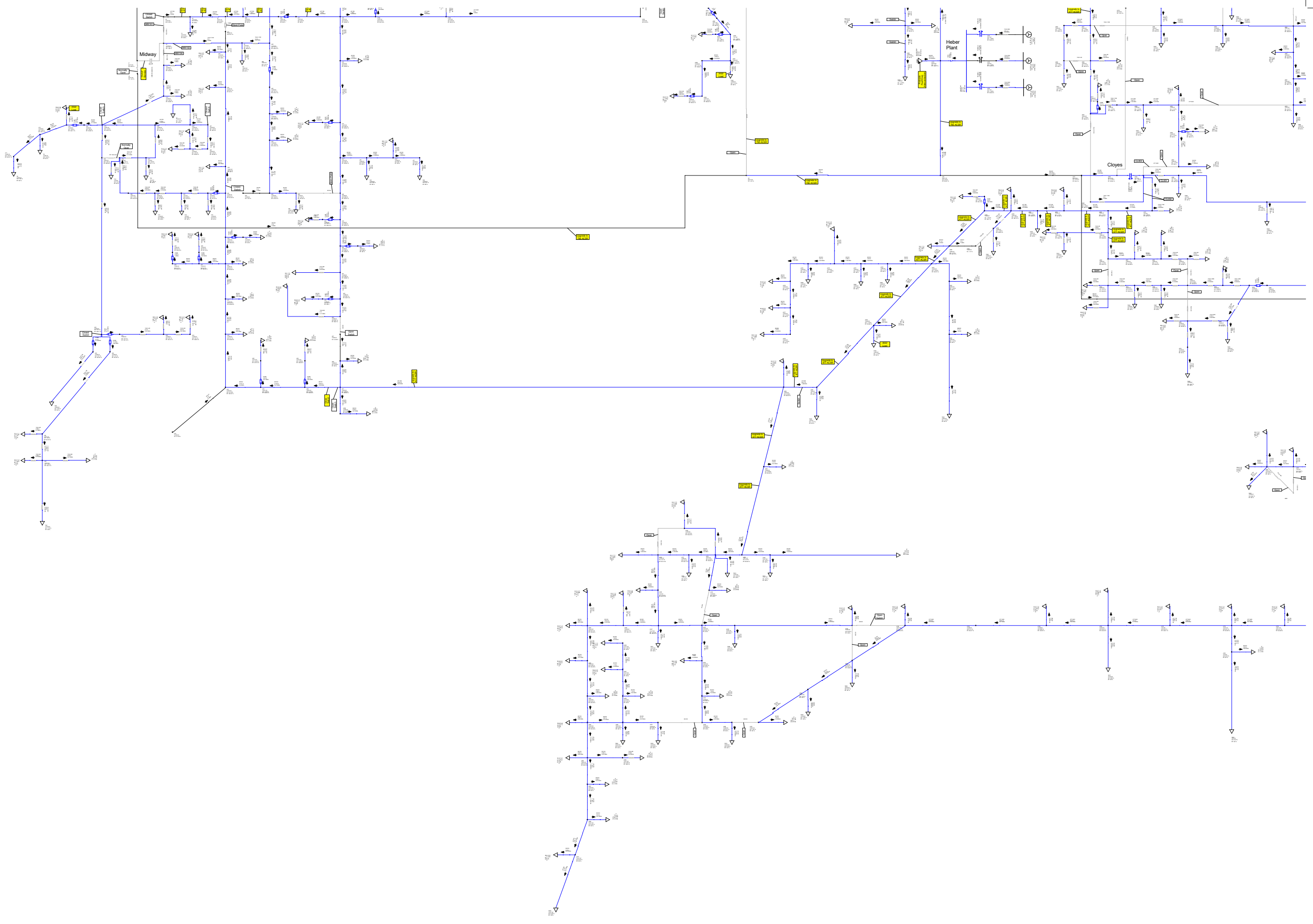
Heber 12.47 kV
2022 - Loss of Midway transformer
(After Upgrades)

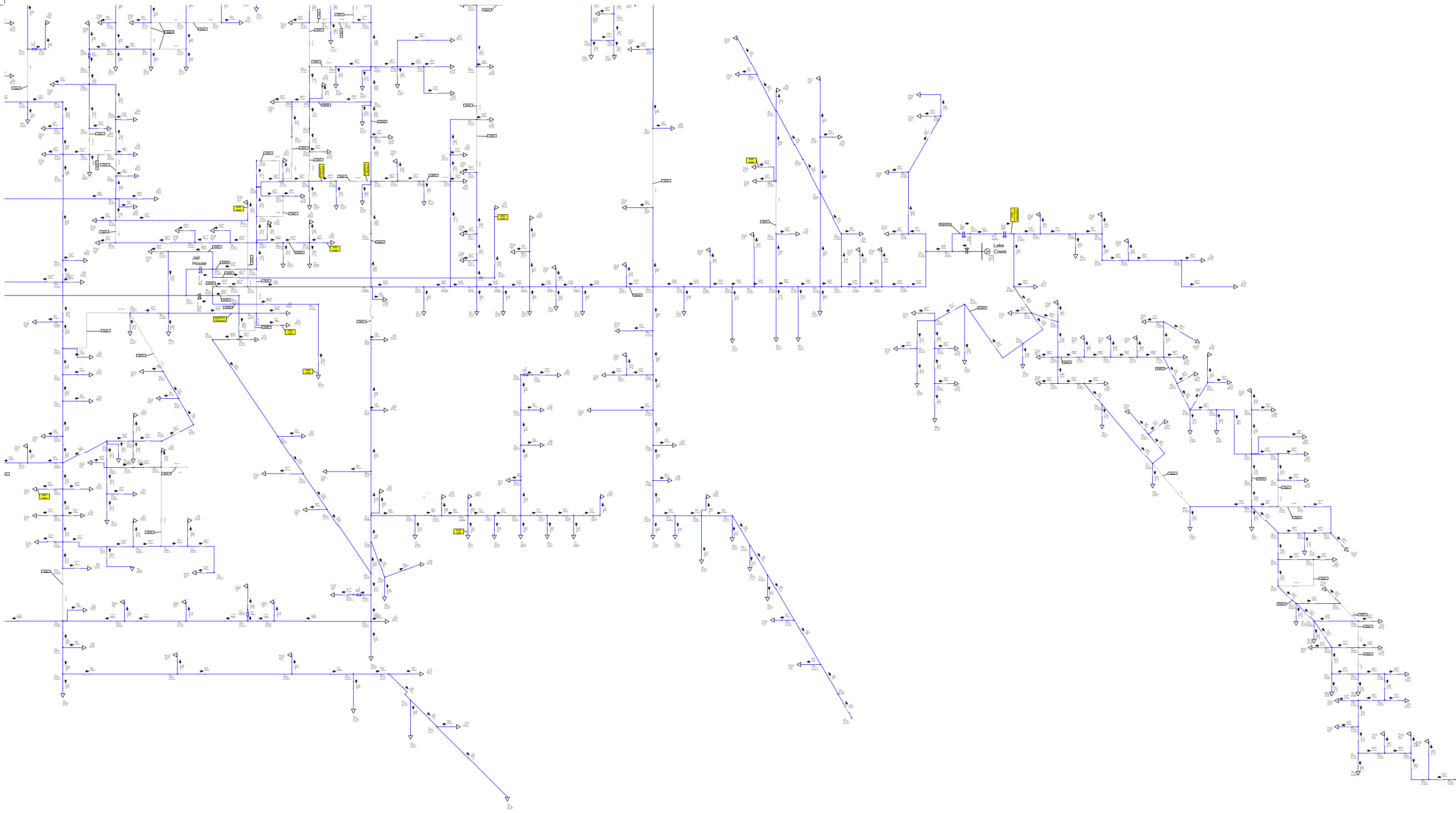
1. MW101 and MW102 circuits can
be picked up by PR201.

2. MW104 can be picked up by
CL402.



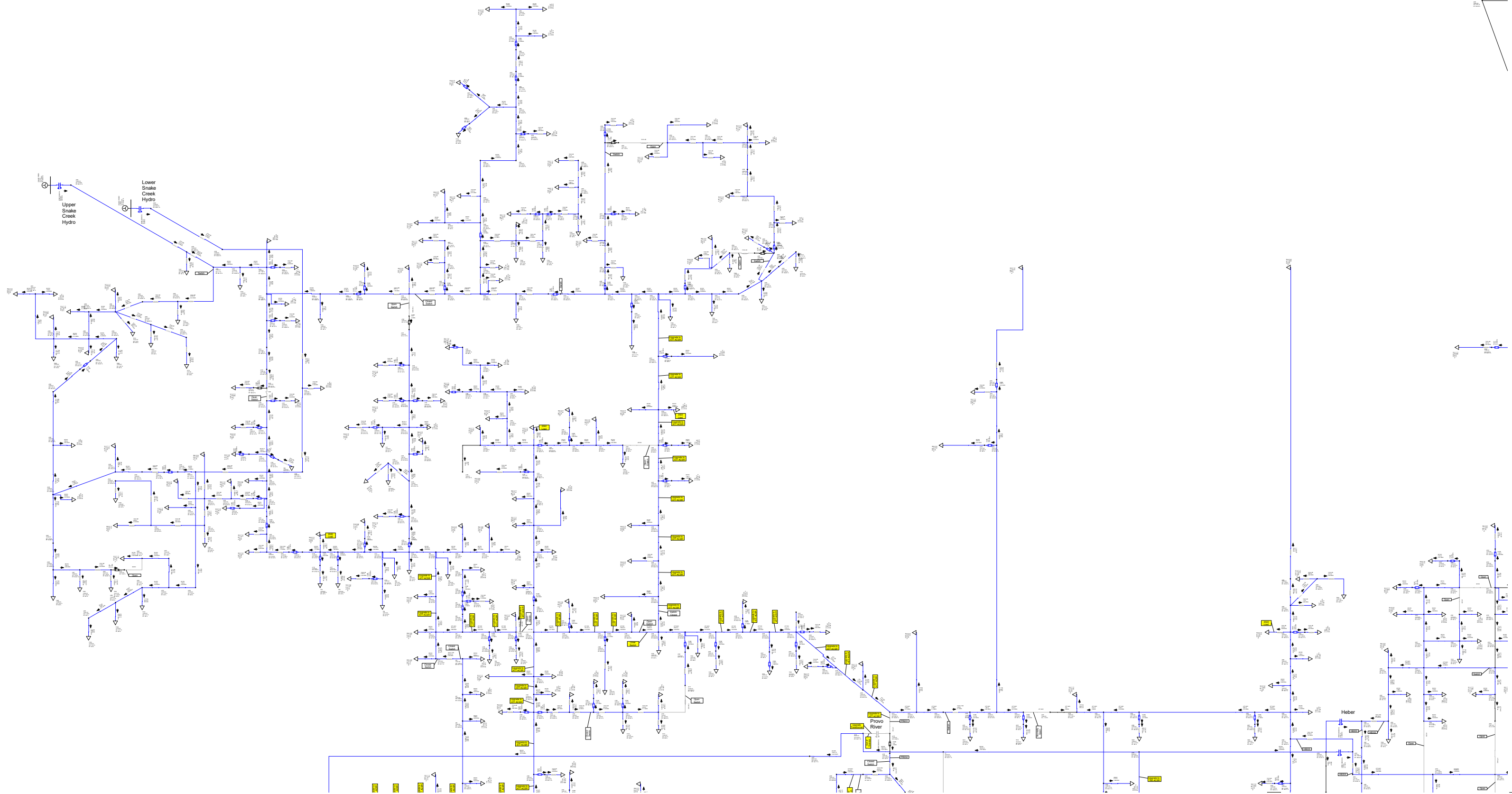


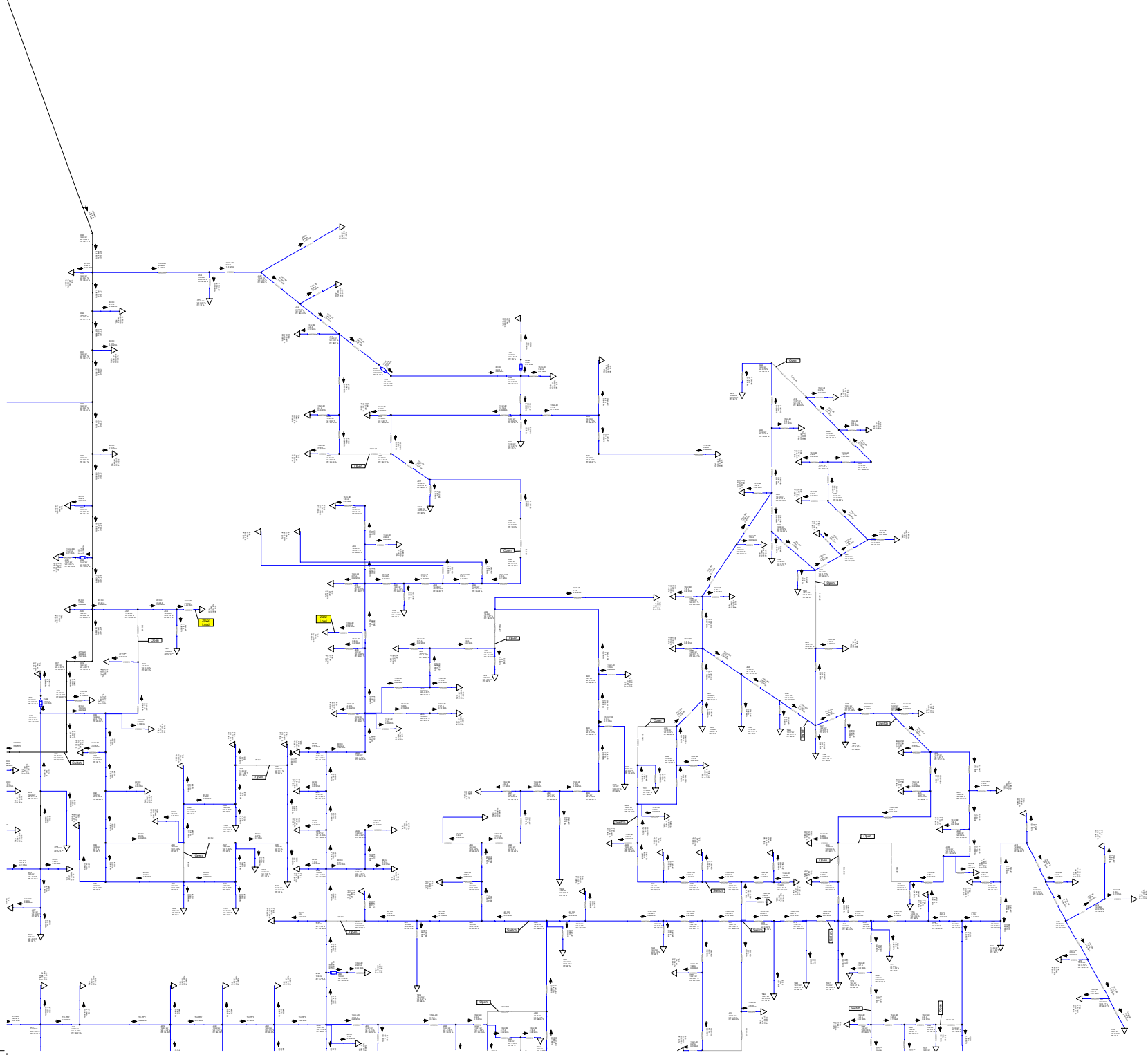
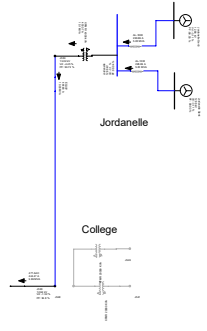


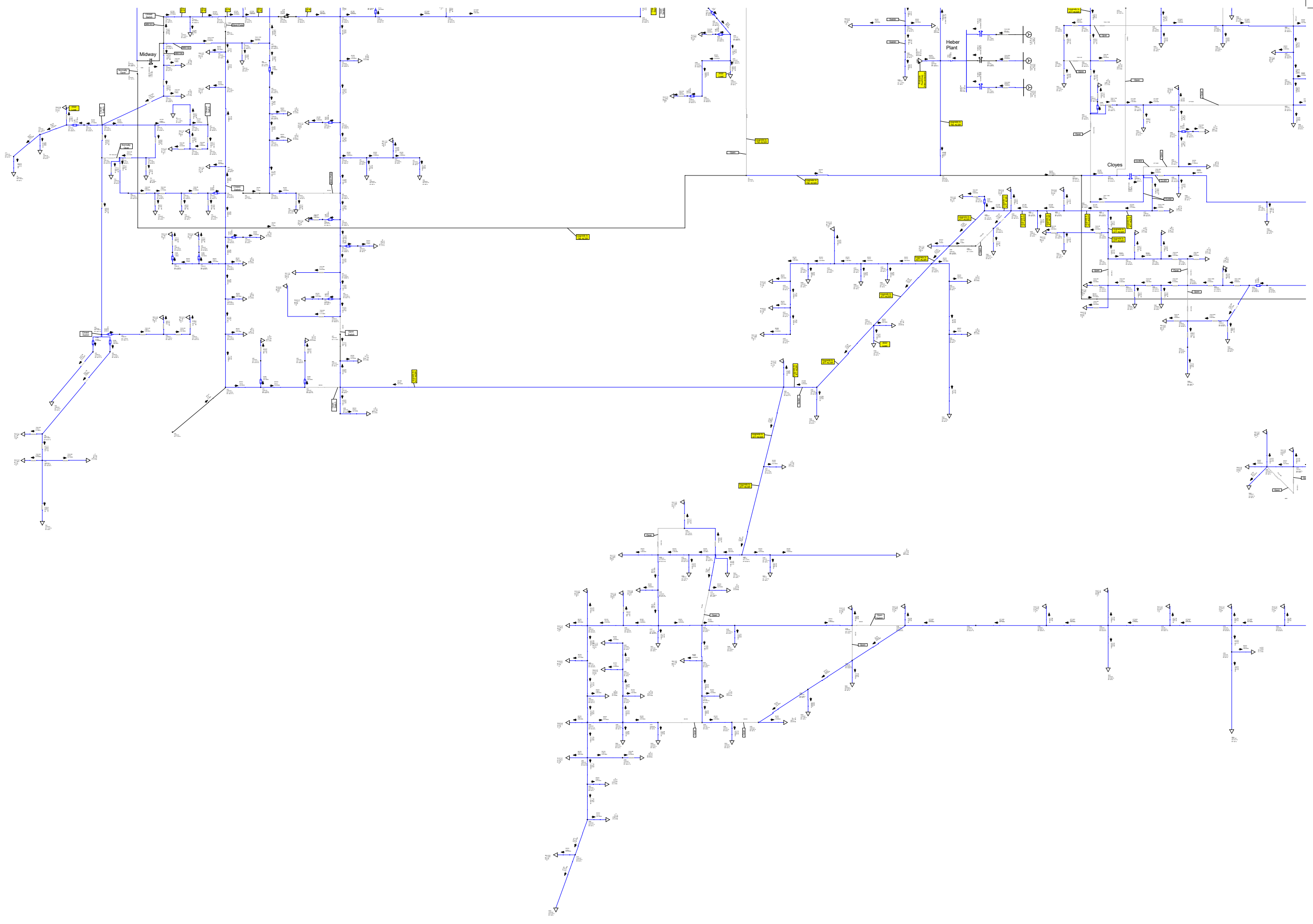


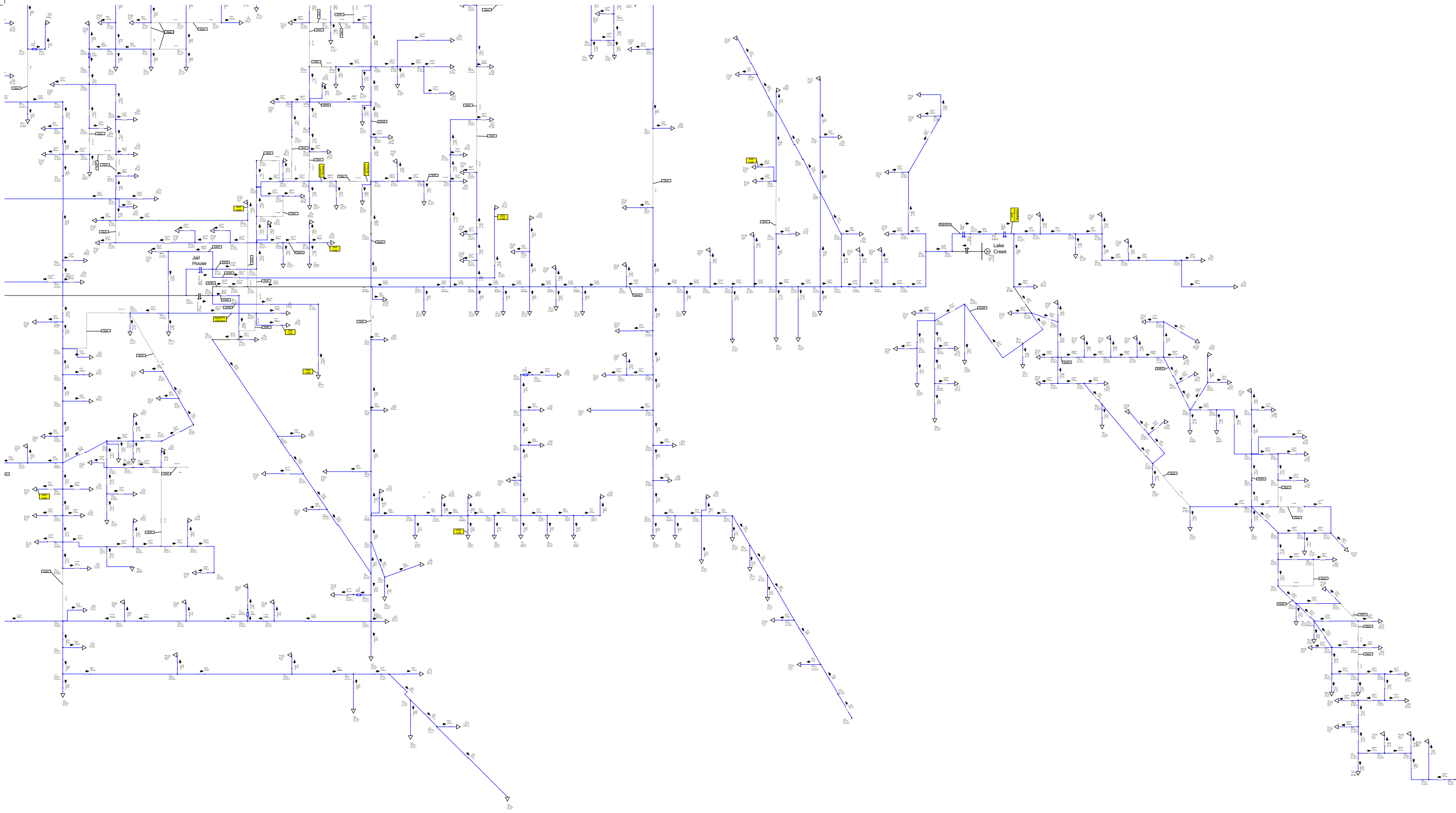
Heber 12.47 kV
2022 - Loss of Provo River transformer

1. PR201 can be picked up by MW101.
2. PR202 can be picked up by MW101.



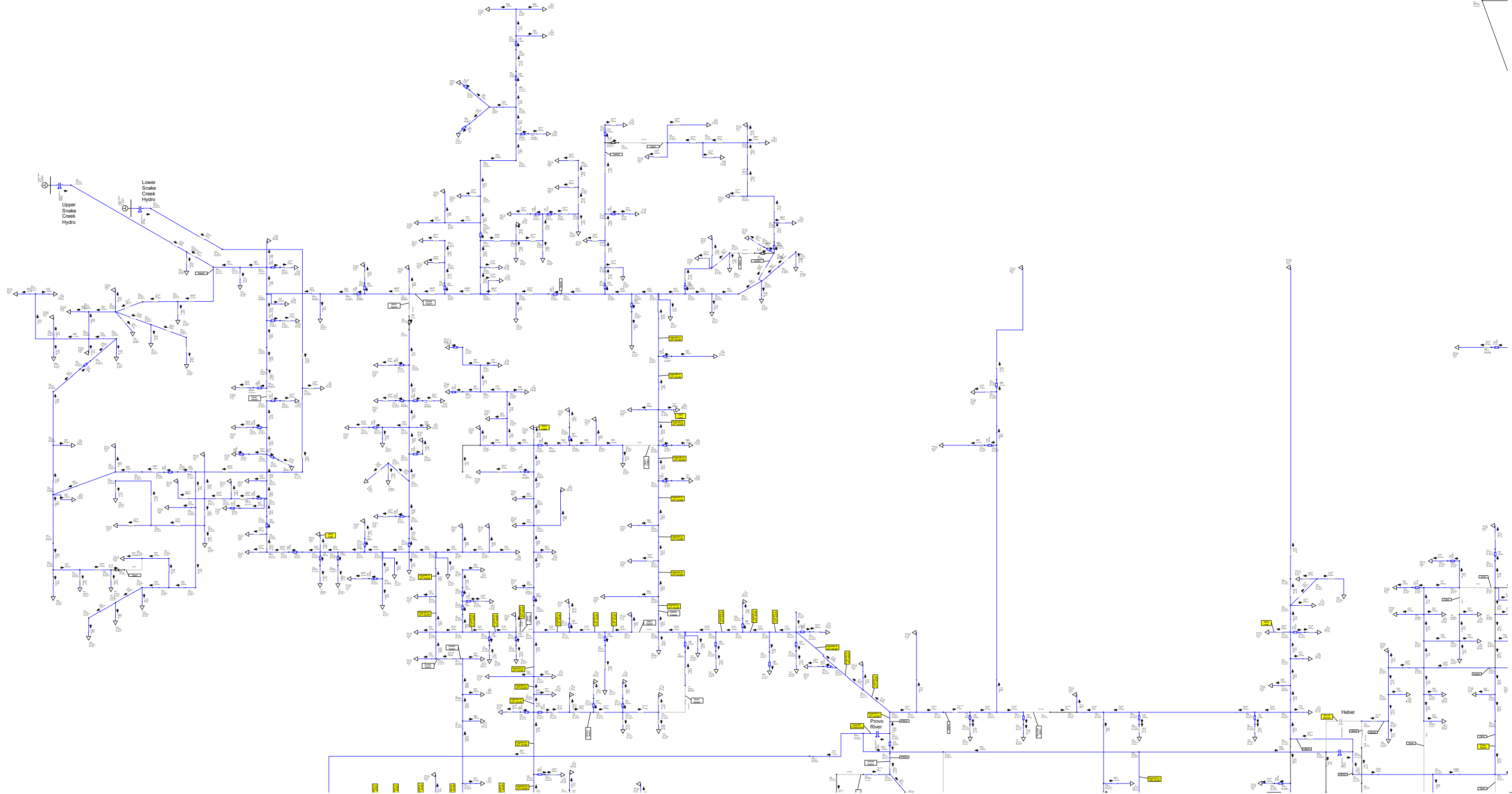


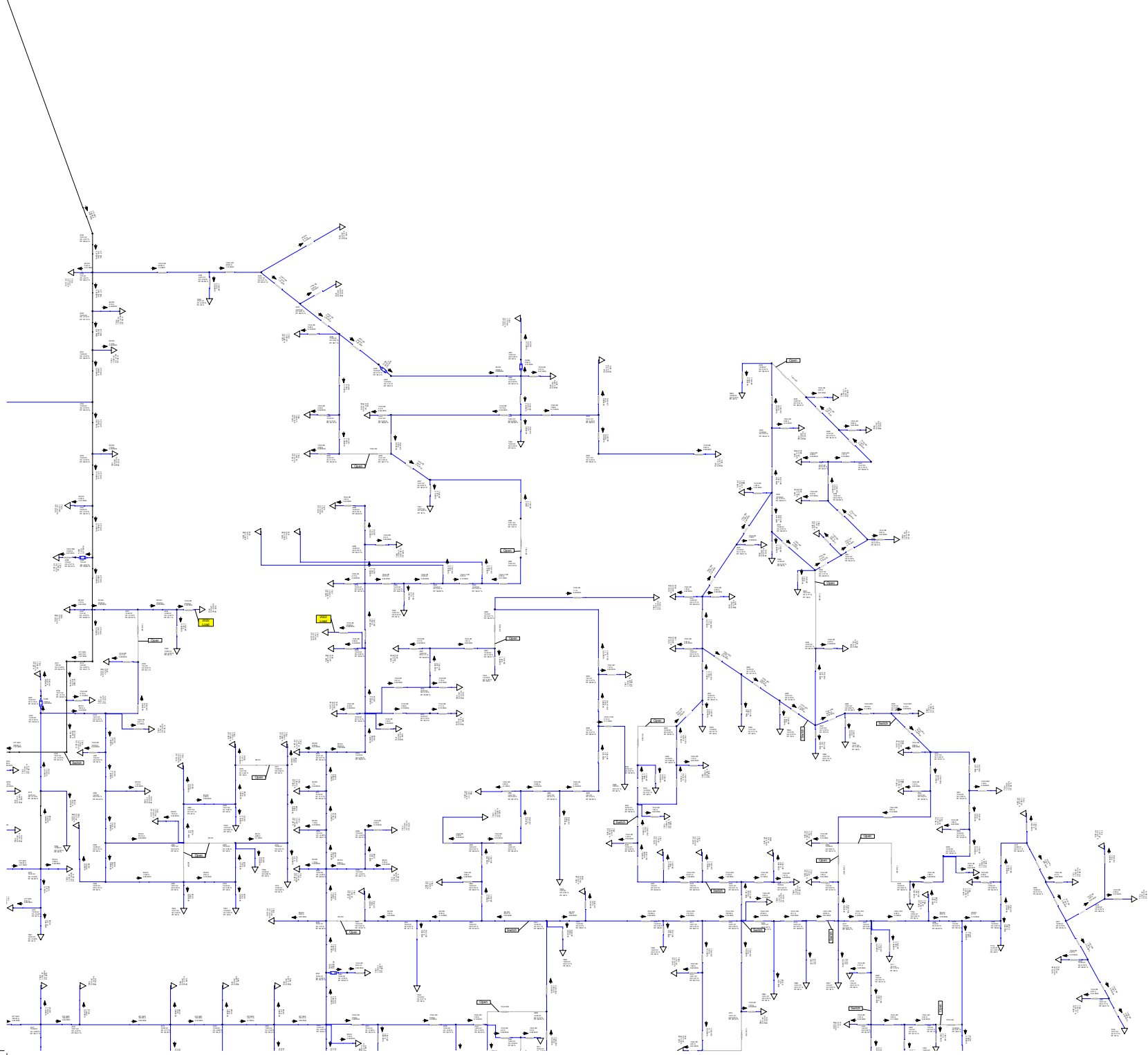
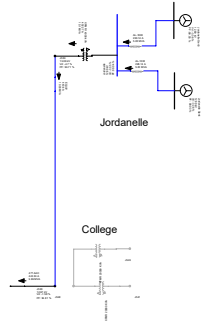


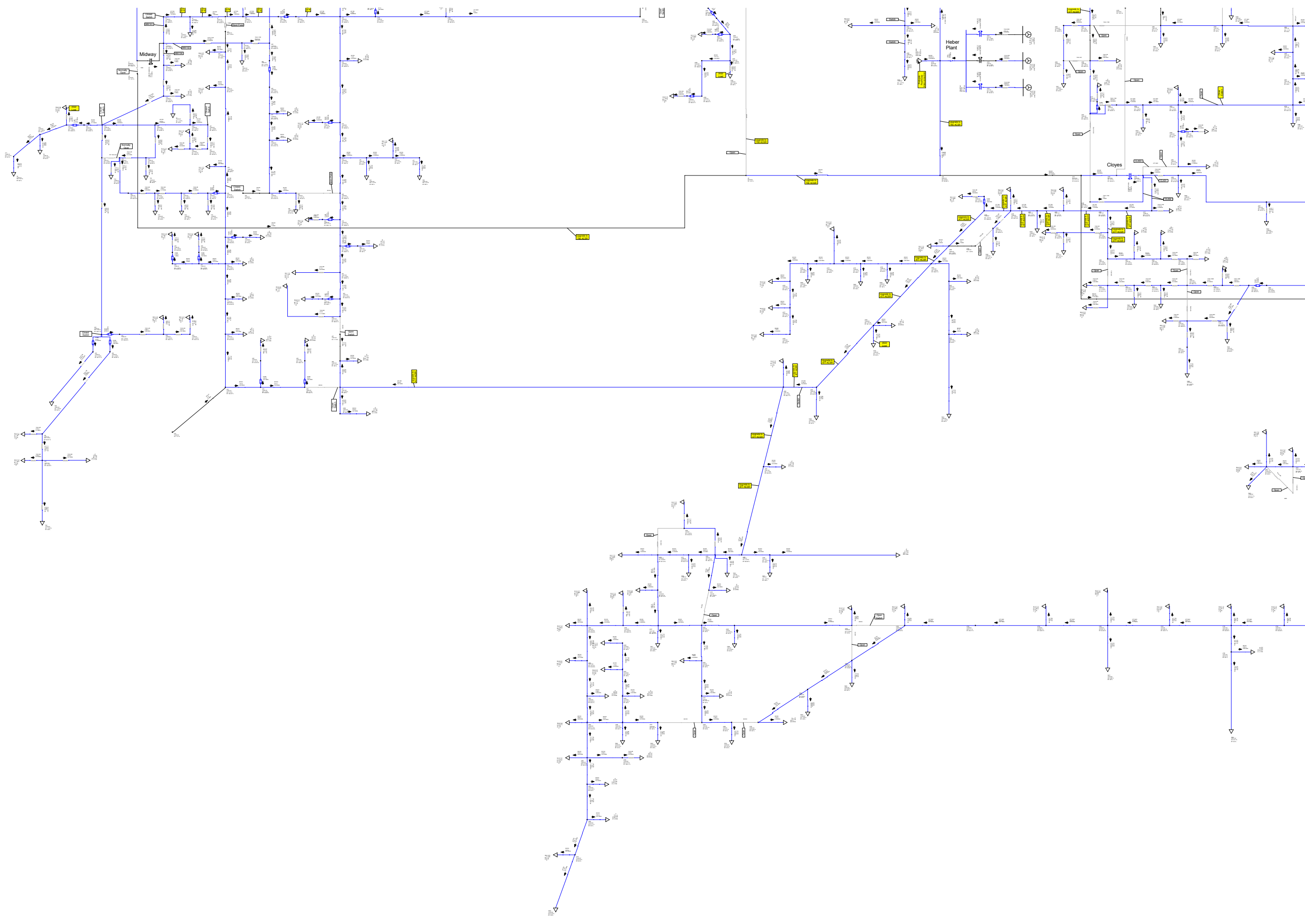


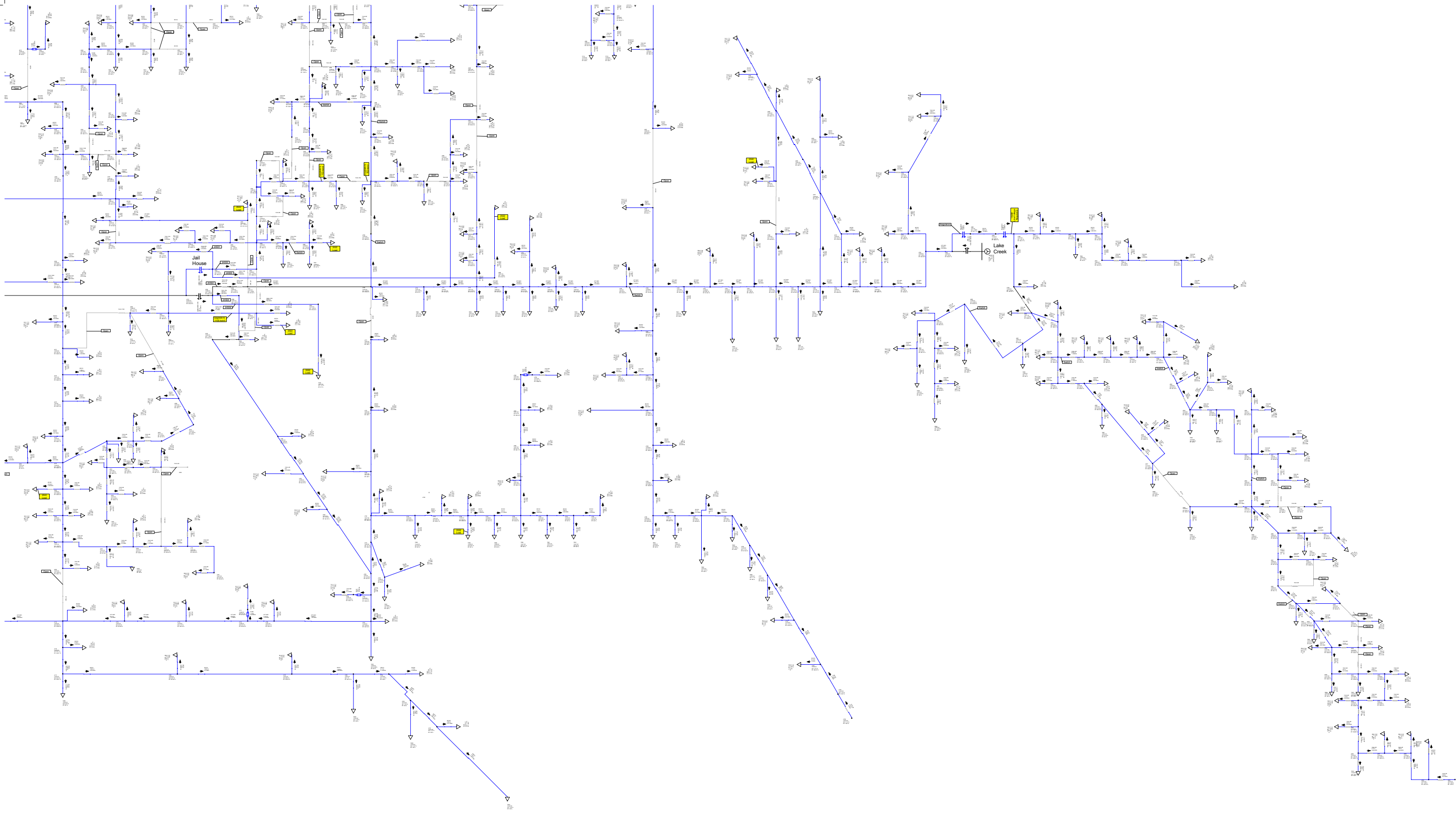
Heber 12.47 kV
2022 - Loss of Heber T1
transformer

1. HB302 can be picked up by HB304.
2. HB303 can be picked up by HB305.



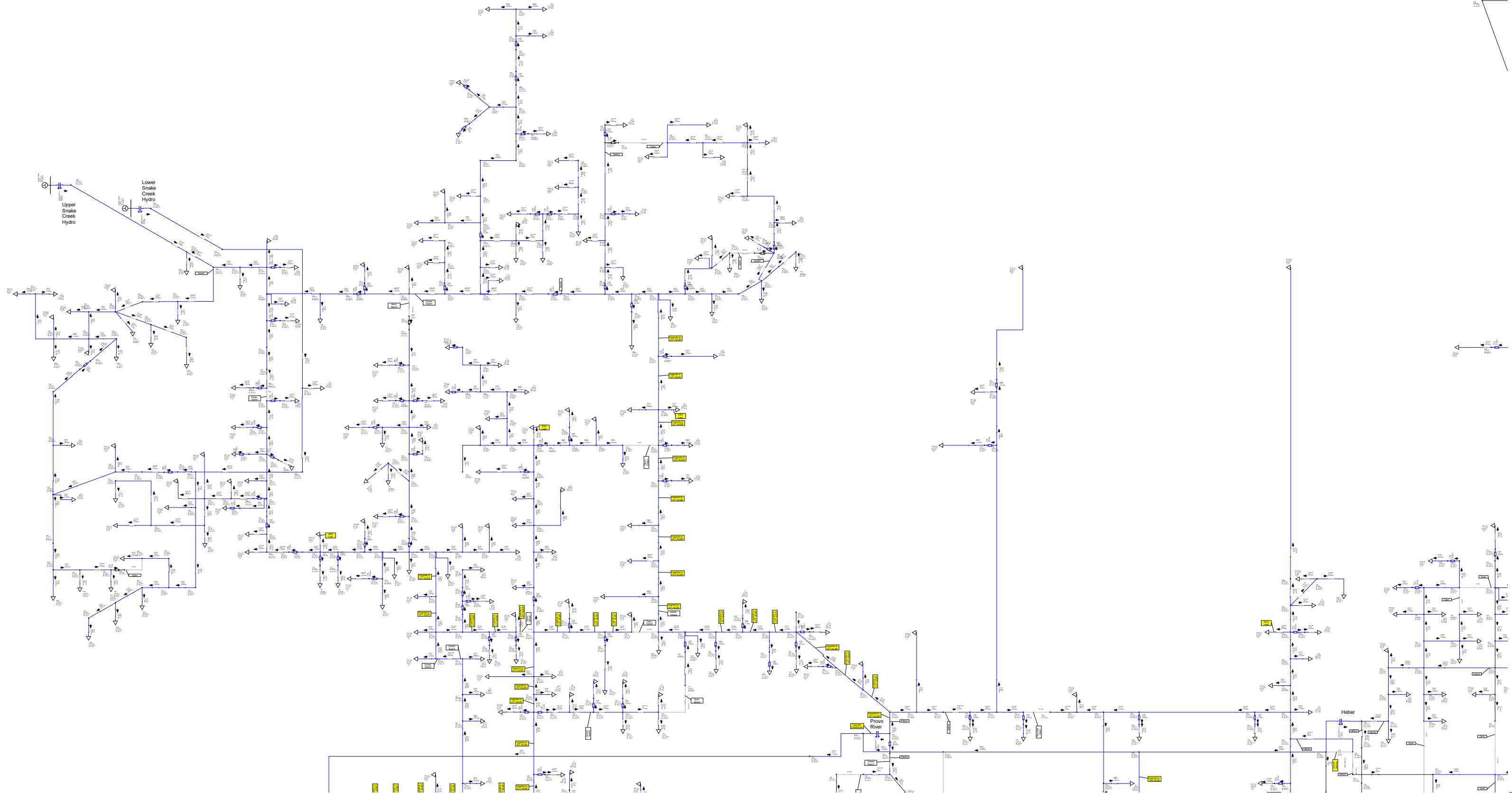


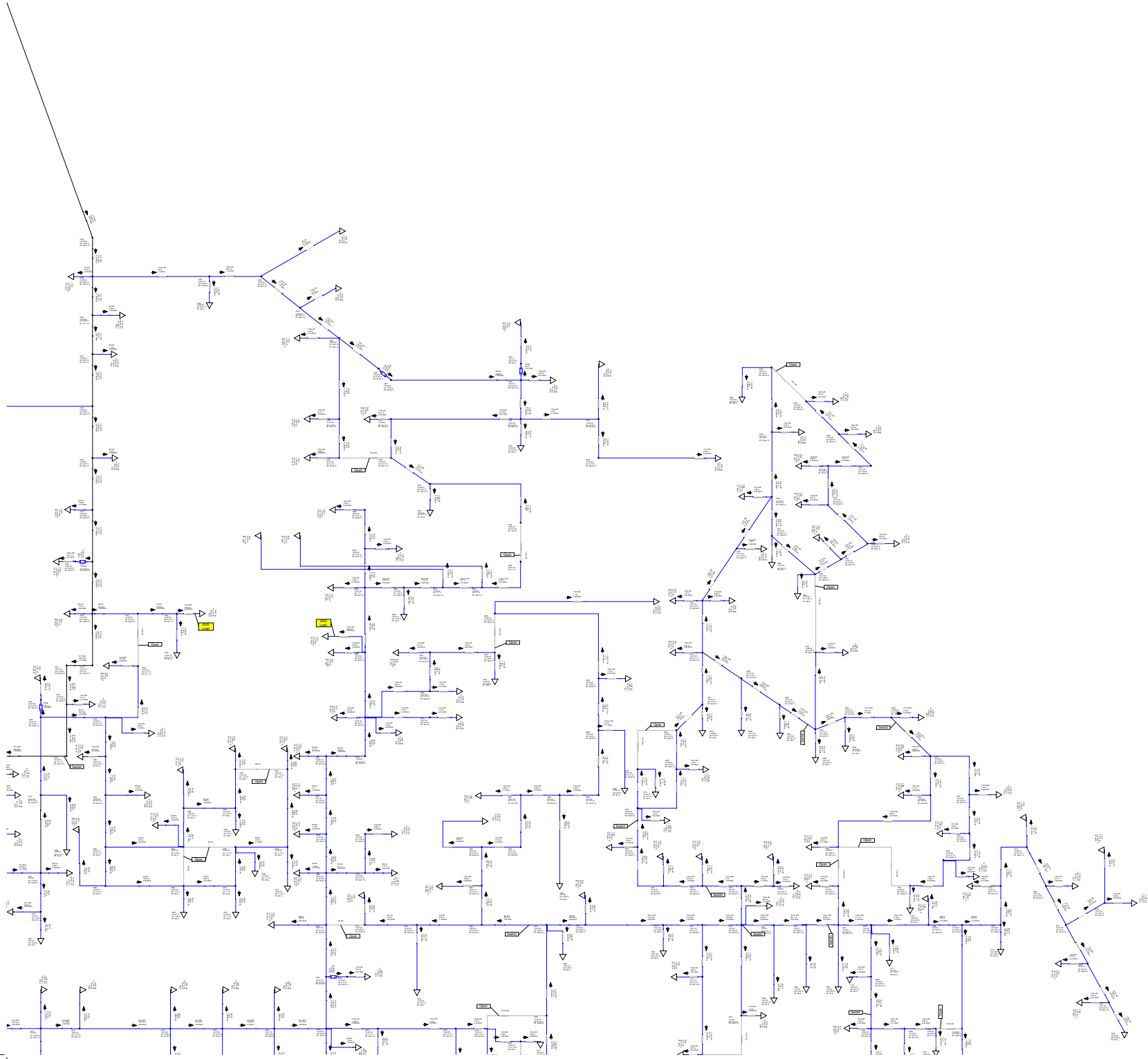
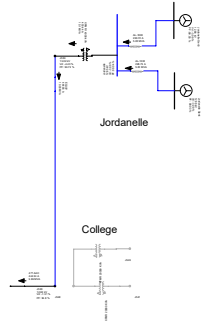


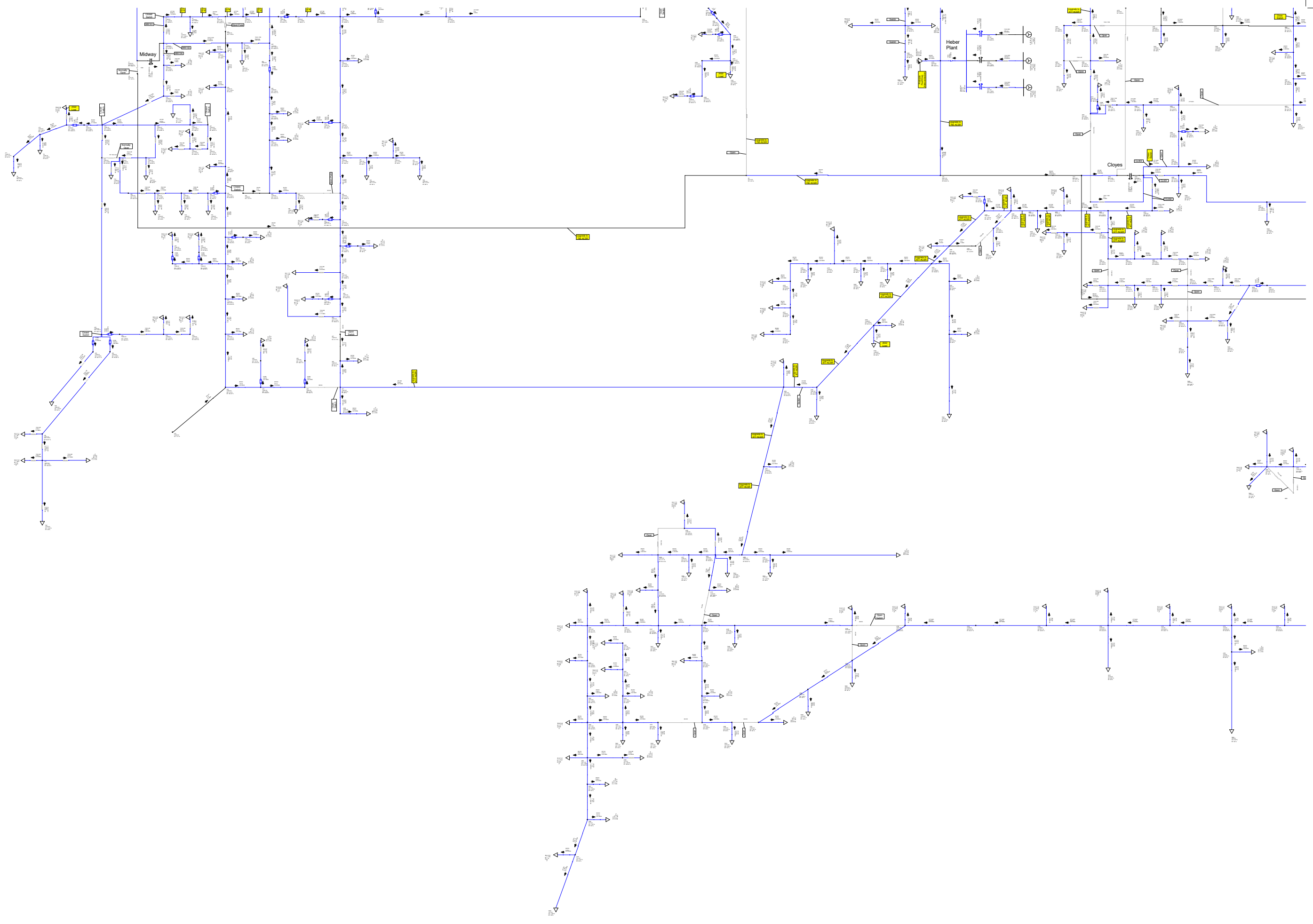


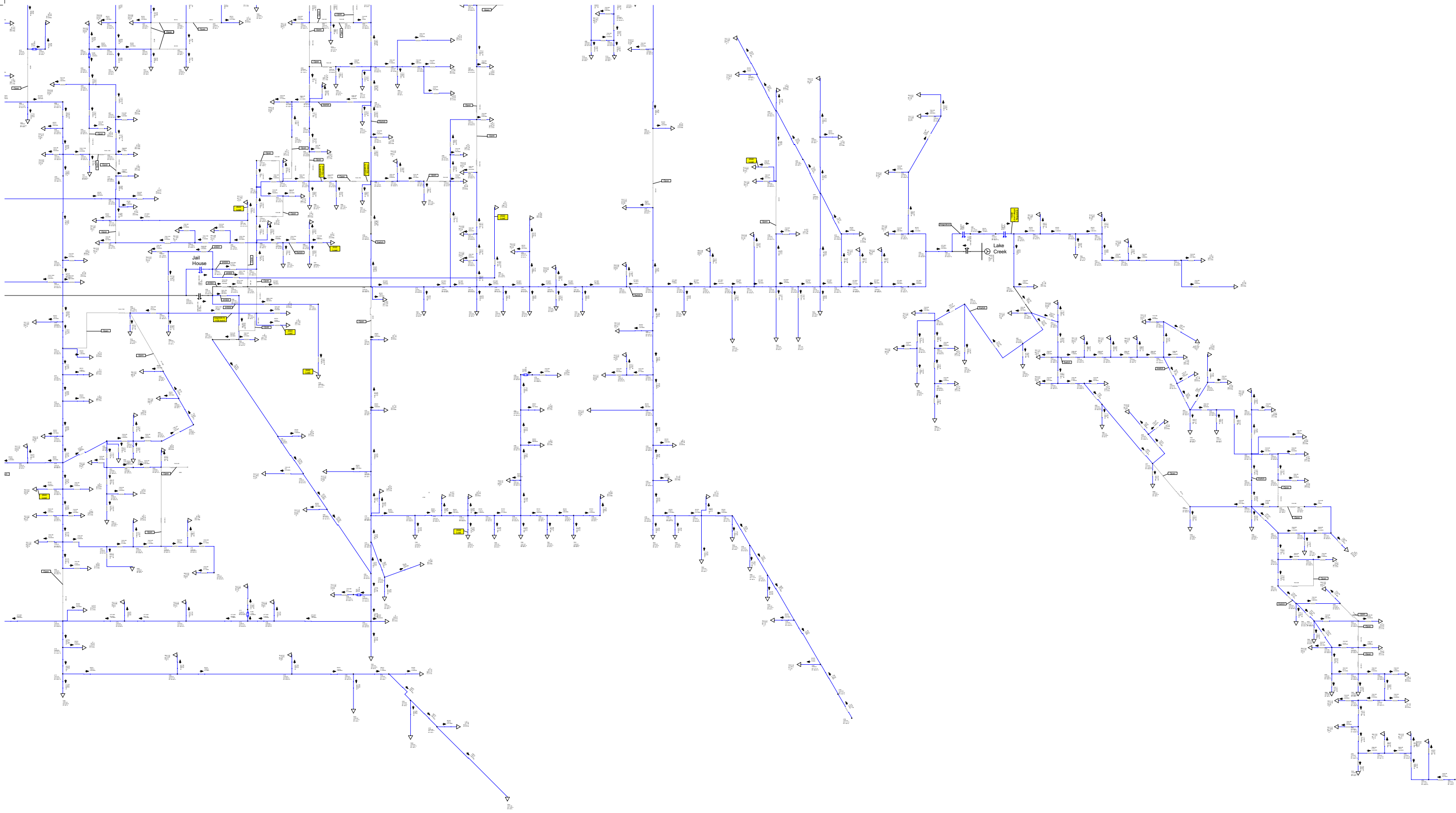
Heber 12.47 kV
2018 - Loss of Heber T2 Transformer

1. HB304 circuit can be picked up by HB303.
2. HB305 circuit can be picked up by CL403.





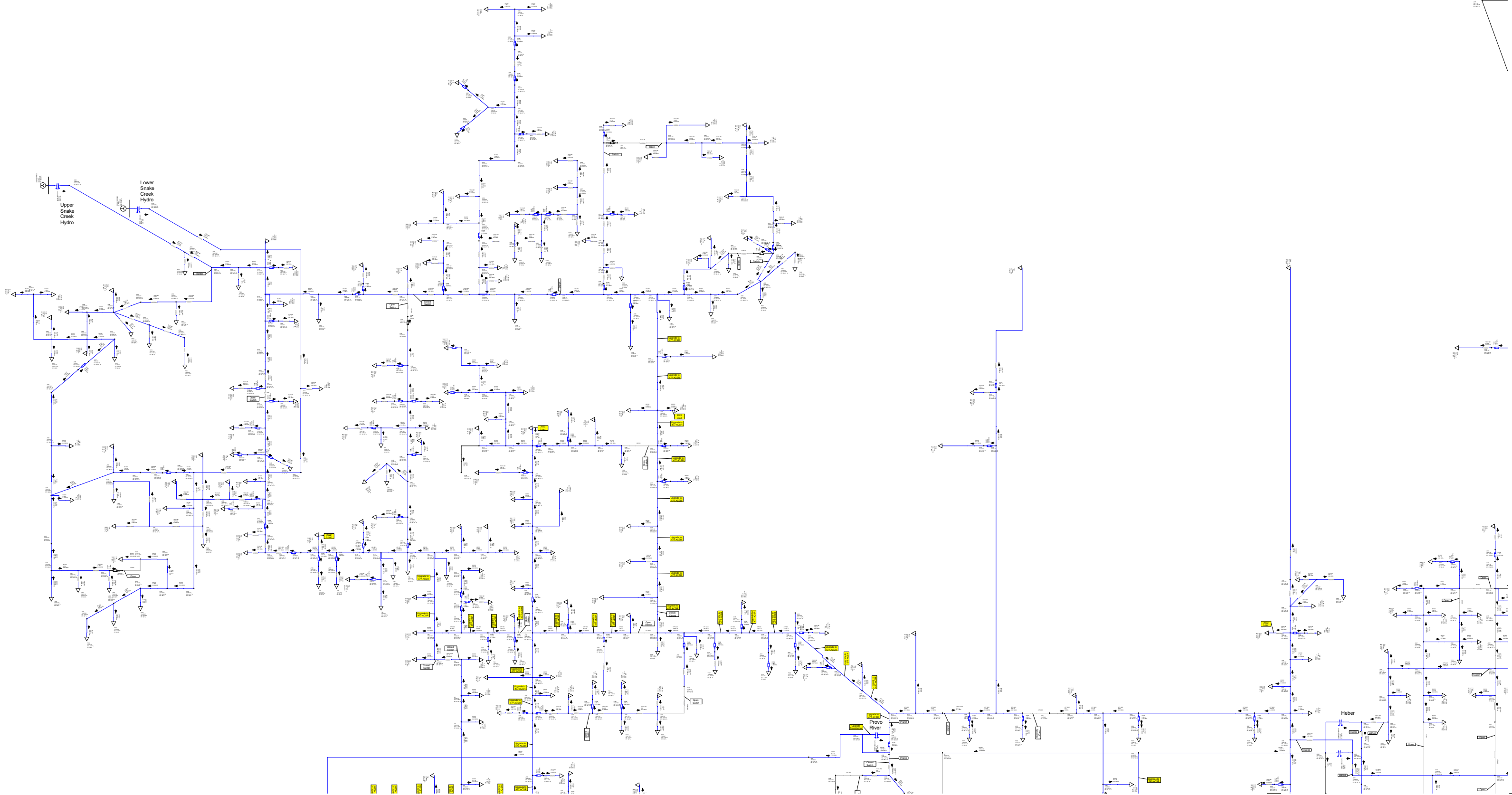


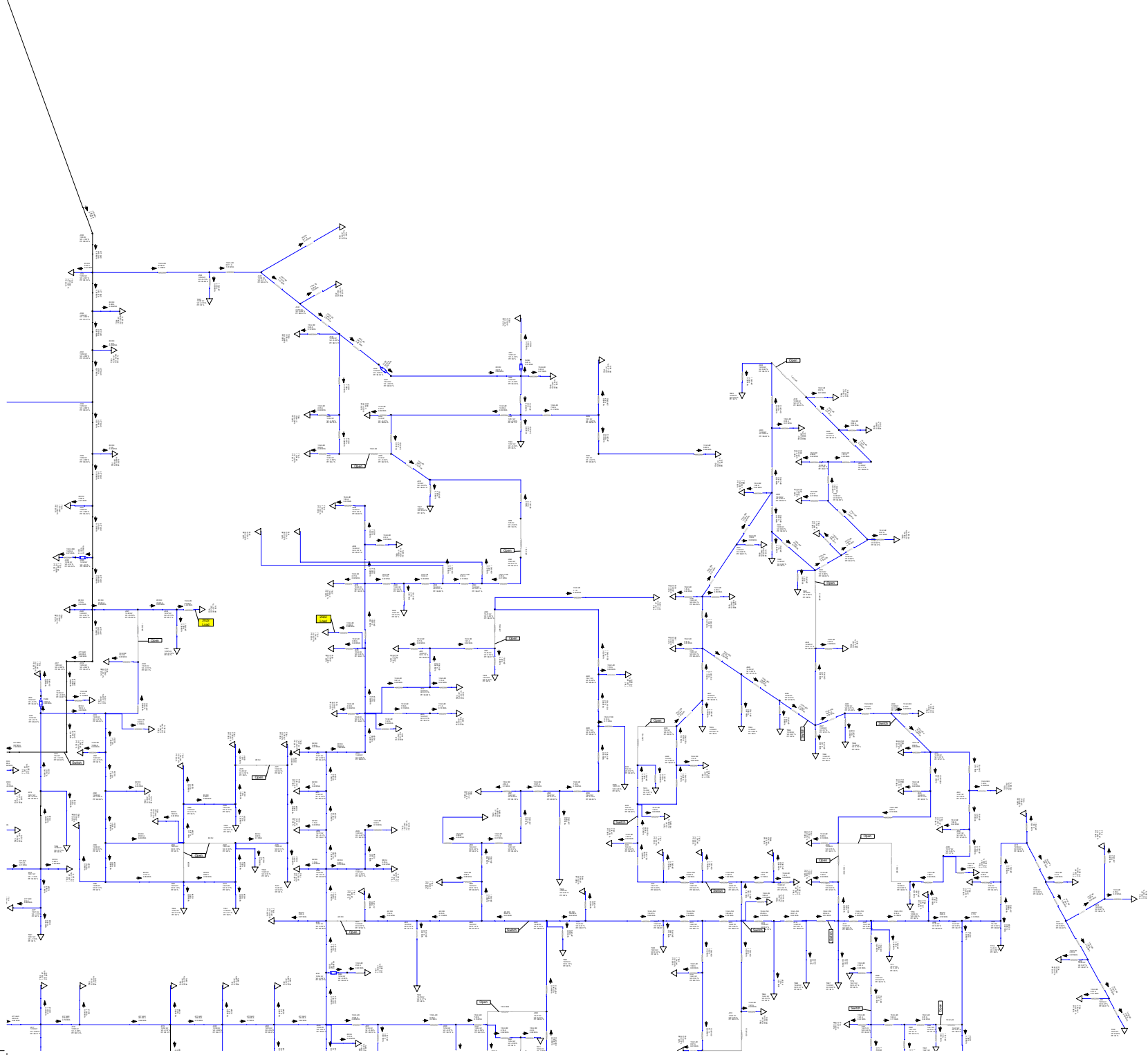
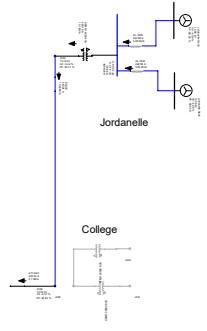


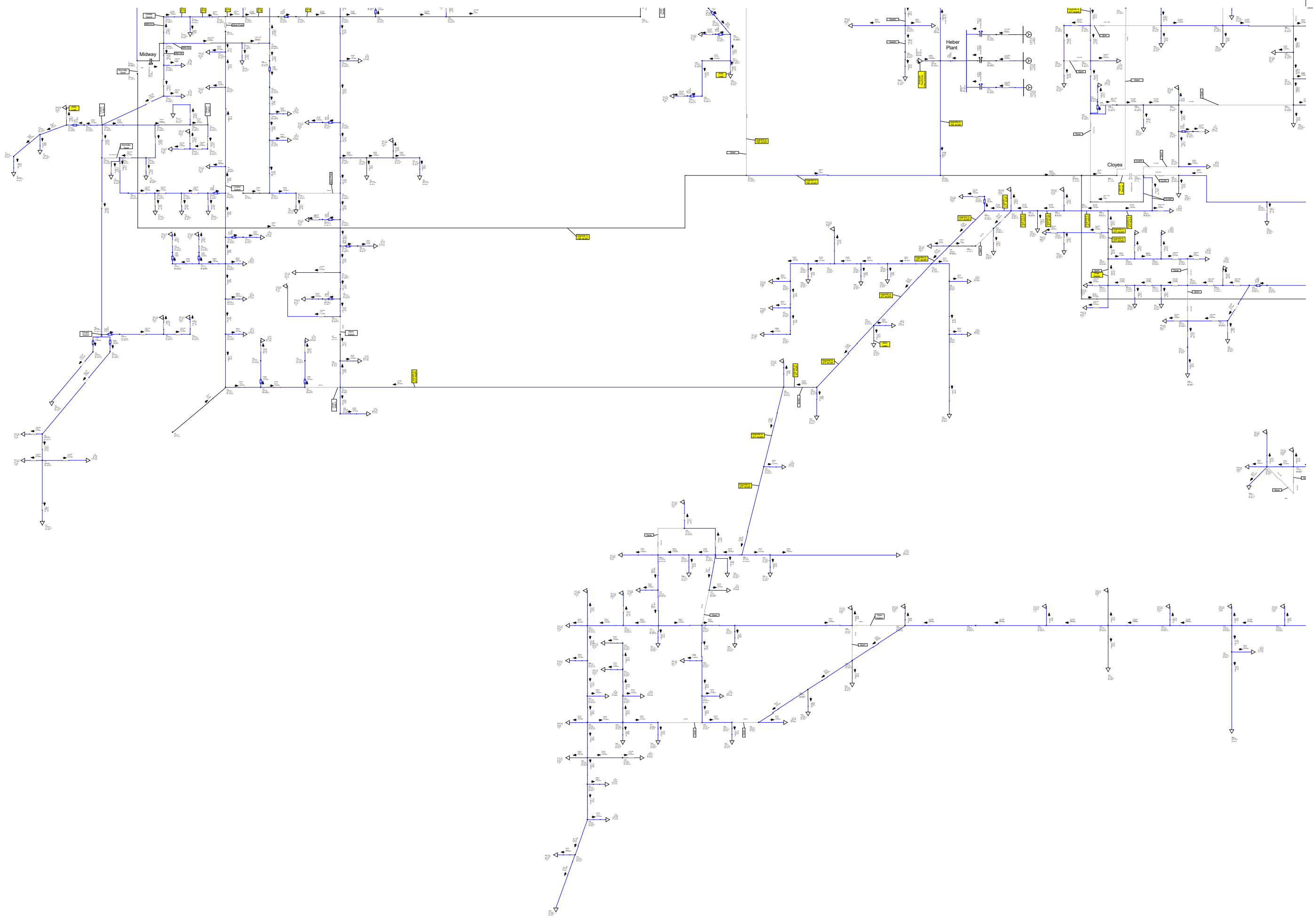
Heber 12.47 kV
2022 - Loss of Cloyes transformer

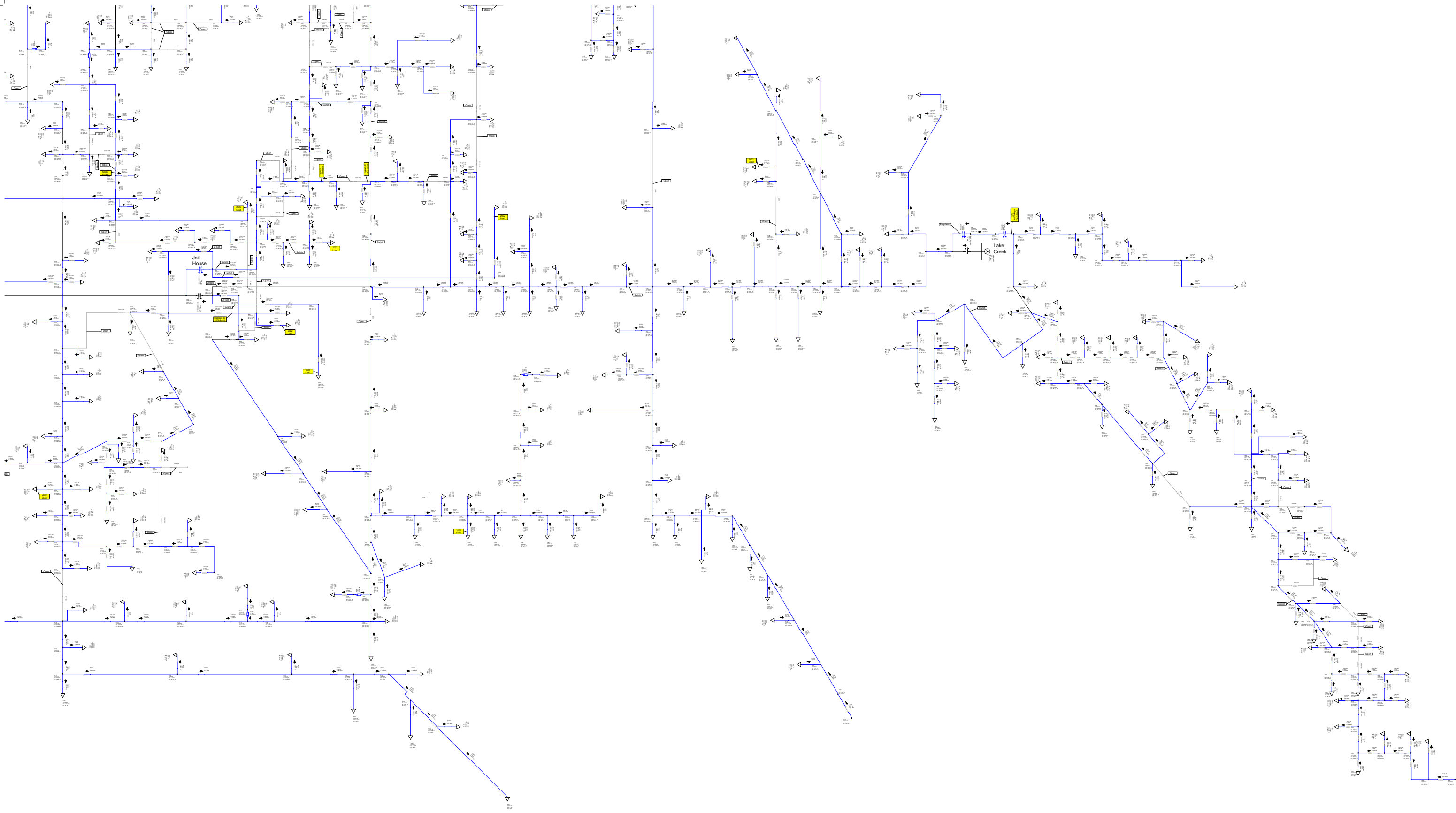
1. CL401 circuit can be picked up by HB304.

2. CL402 circuit can be picked up by HB303.







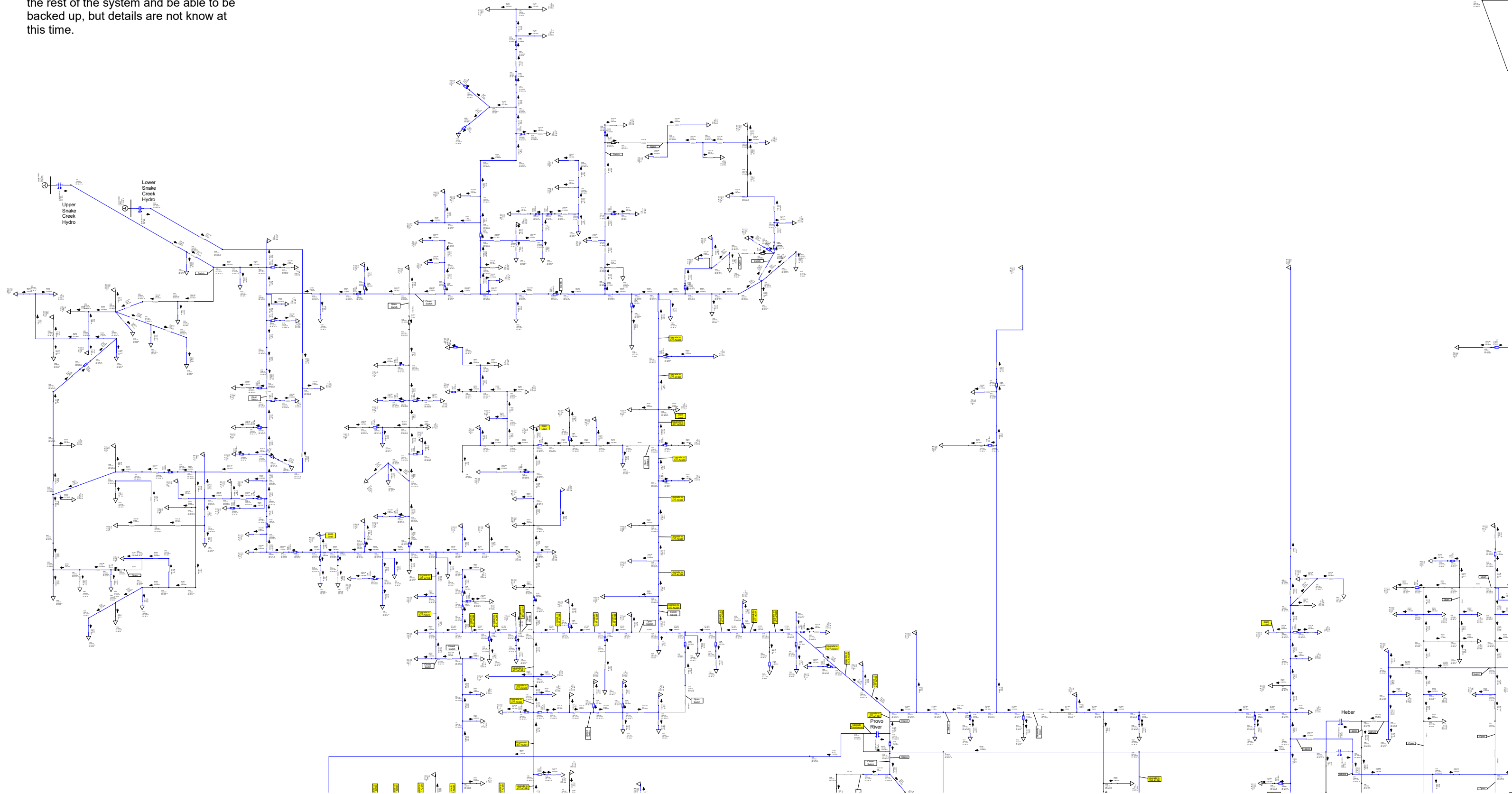


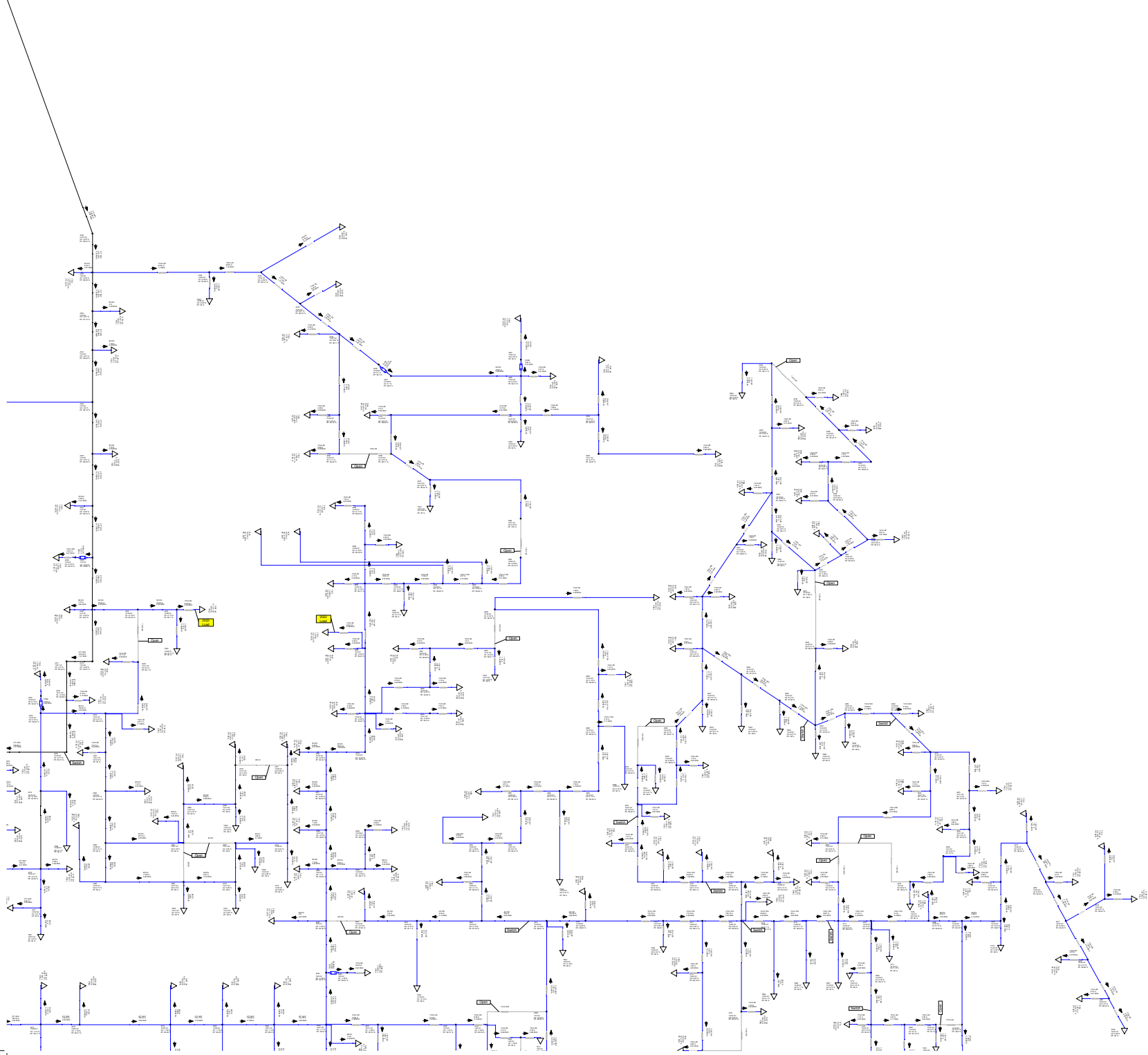
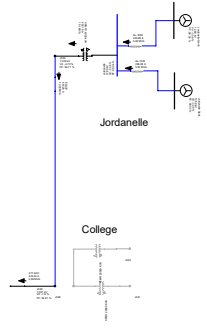
Heber 12.47 kV
2022 - Loss of Jailhouse T1 transformer

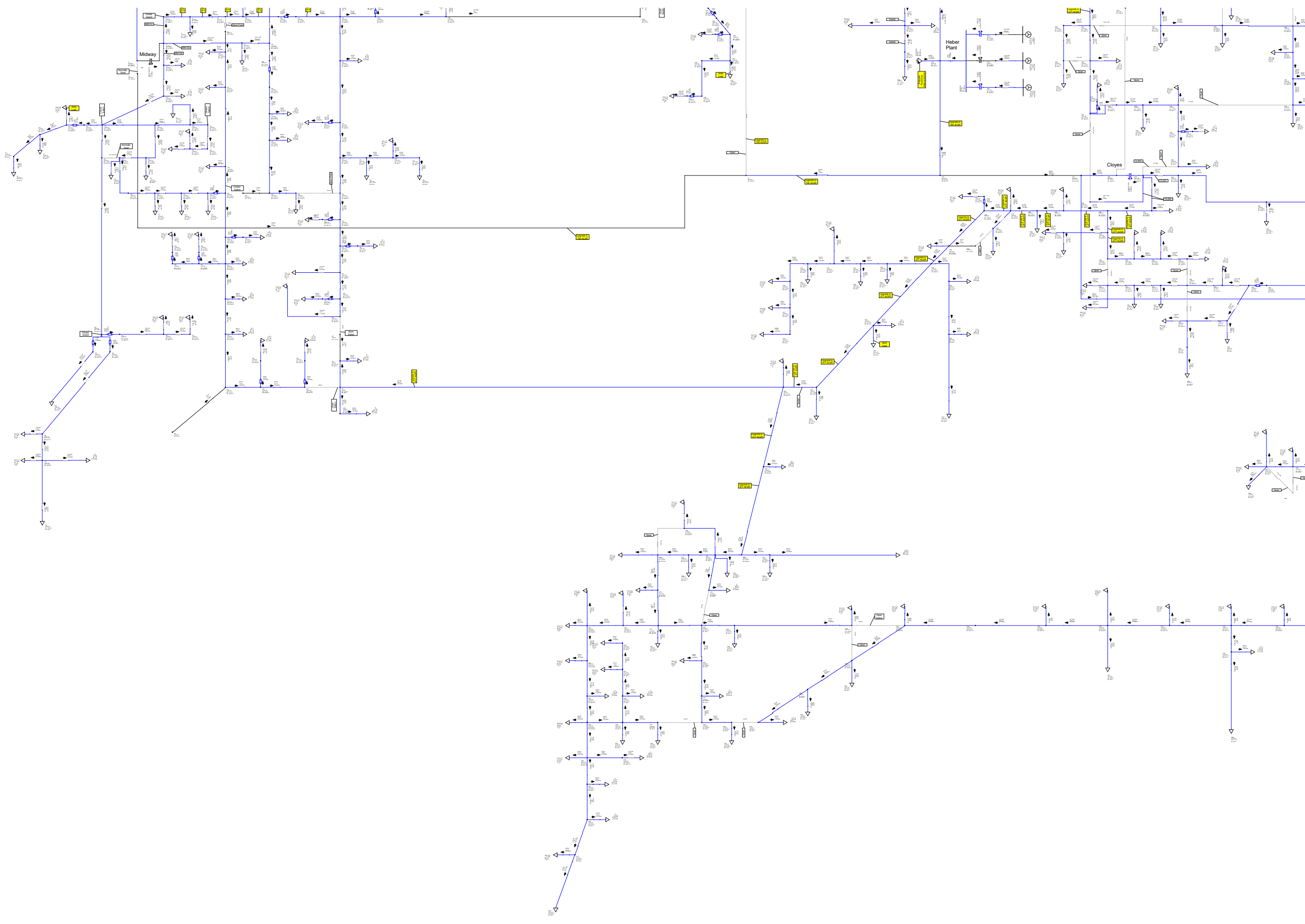
1. JH501 circuit can be picked up by
HB303.

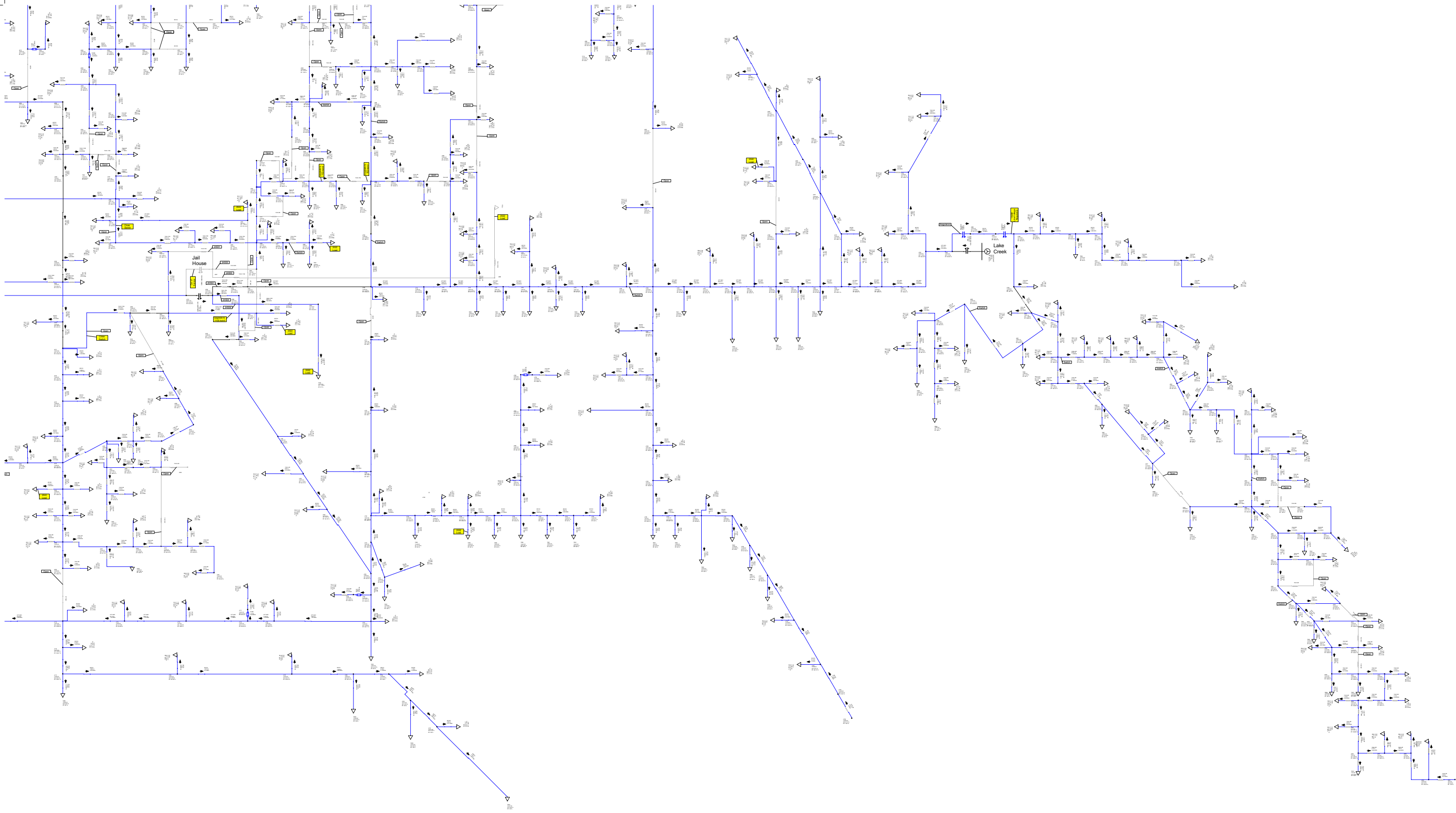
2. JH503 circuit can be picked up by
CL401.

3. It is assumed that JH505 will tie into
the rest of the system and be able to be
backed up, but details are not know at
this time.









Heber 12.47 kV
2022 - Loss of Jailhouse T2 transformer

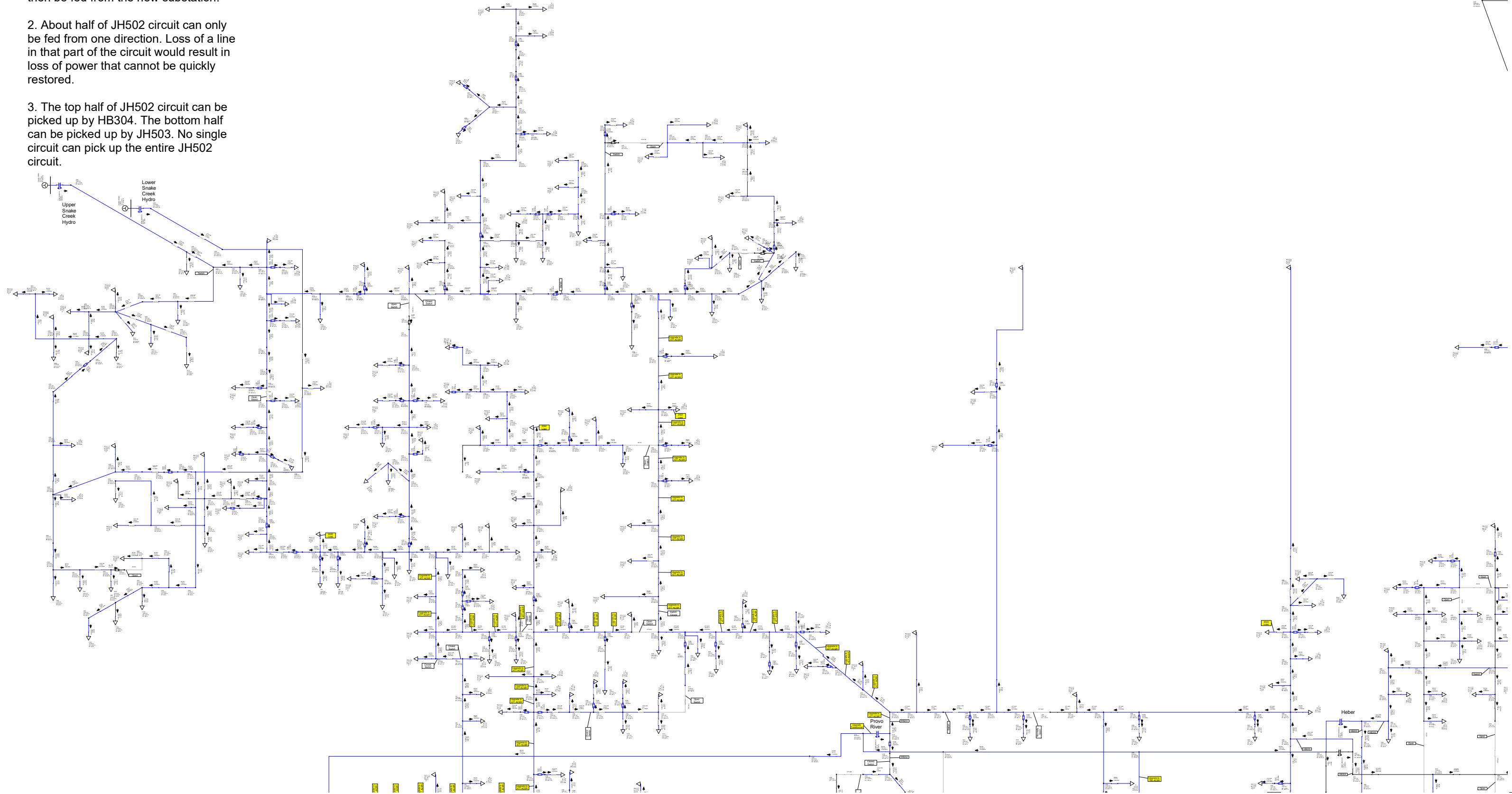
1. JH502 load is approximately 405 amps when Lake Creek generation is off. Consider moving some load to another circuit. As some point in the future a new substation to the West of Jailhouse will probably be required. Much of the area fed by JH502 could then be fed from the new substation.

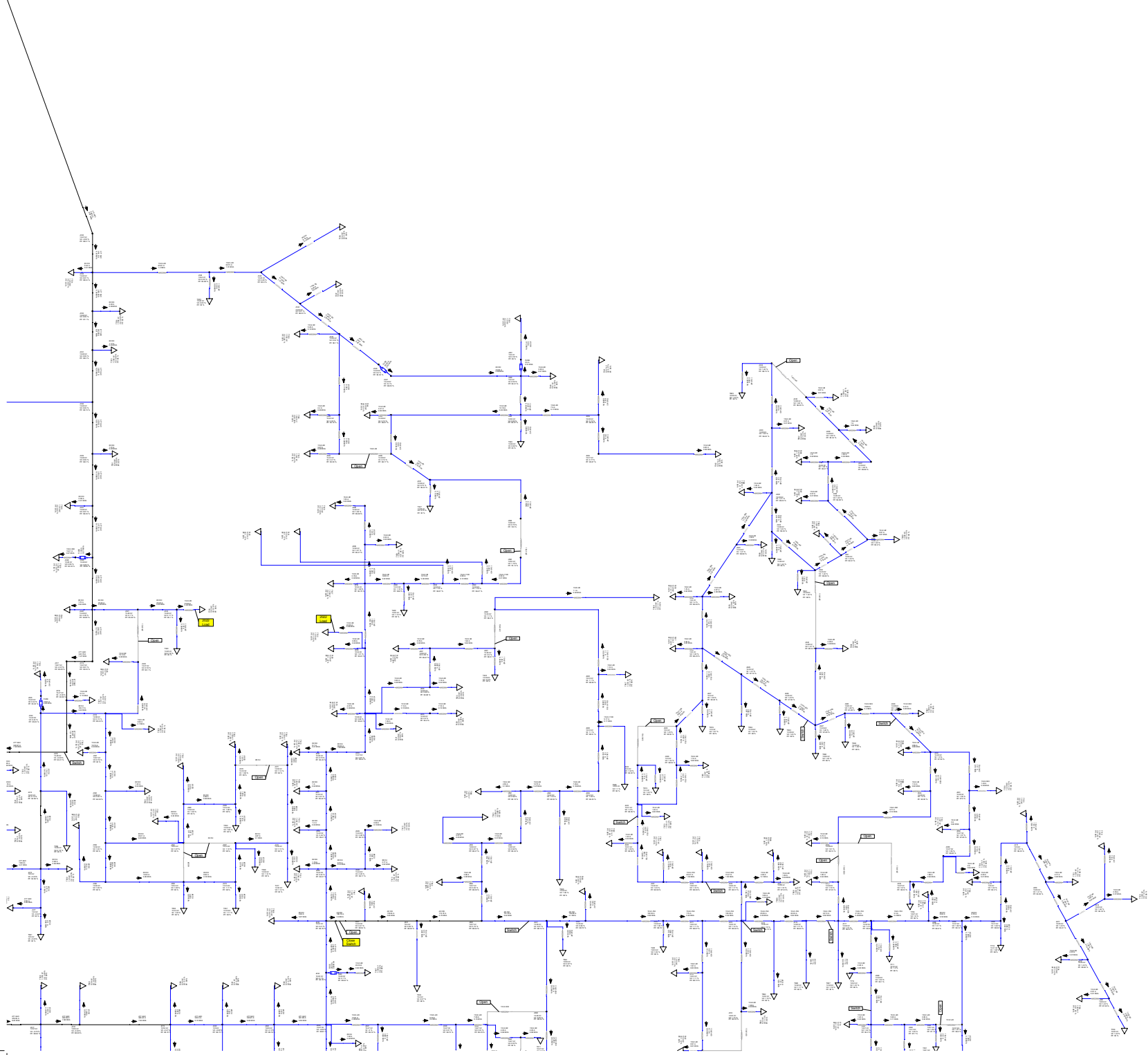
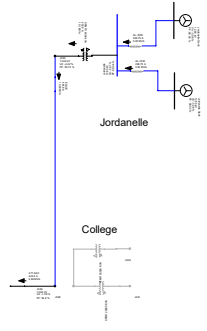
2. About half of JH502 circuit can only be fed from one direction. Loss of a line in that part of the circuit would result in loss of power that cannot be quickly restored.

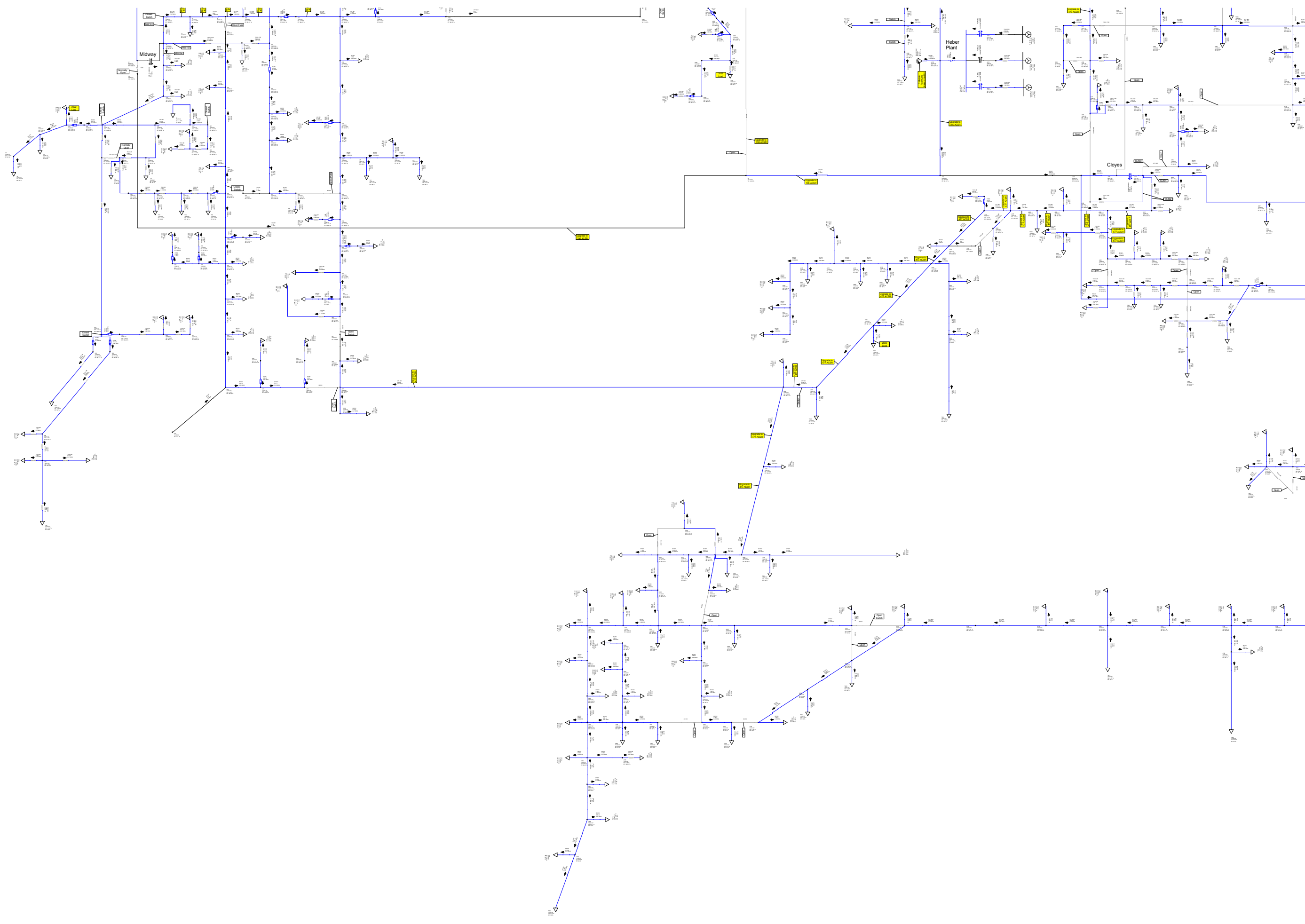
3. The top half of JH502 circuit can be picked up by HB304. The bottom half can be picked up by JH503. No single circuit can pick up the entire JH502 circuit.

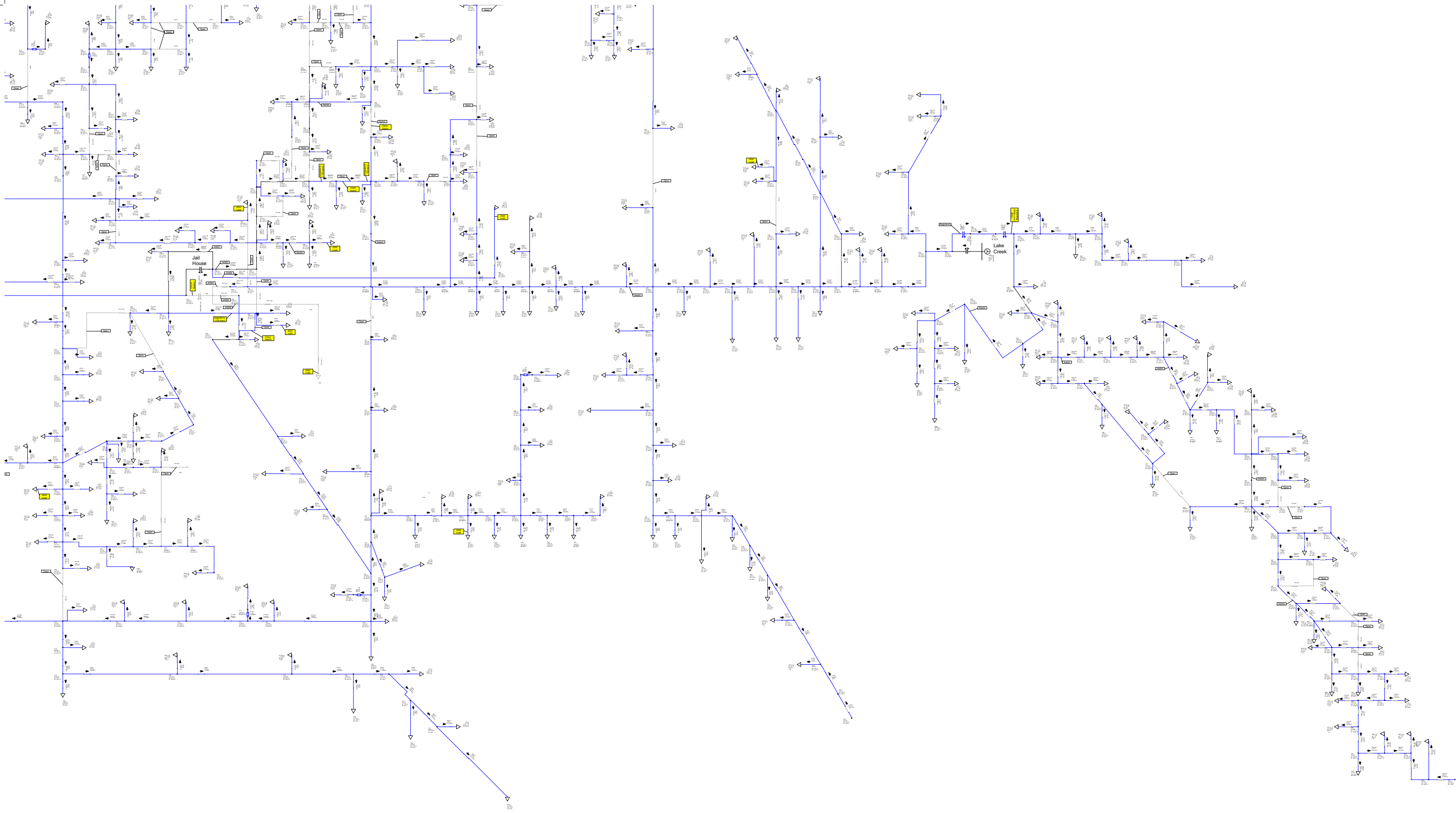
4. JH504 can be picked up by JH501.

5. It is assumed that JH506 circuit will tie into the rest of the system and be able to be backed up, but details are not known at this time.



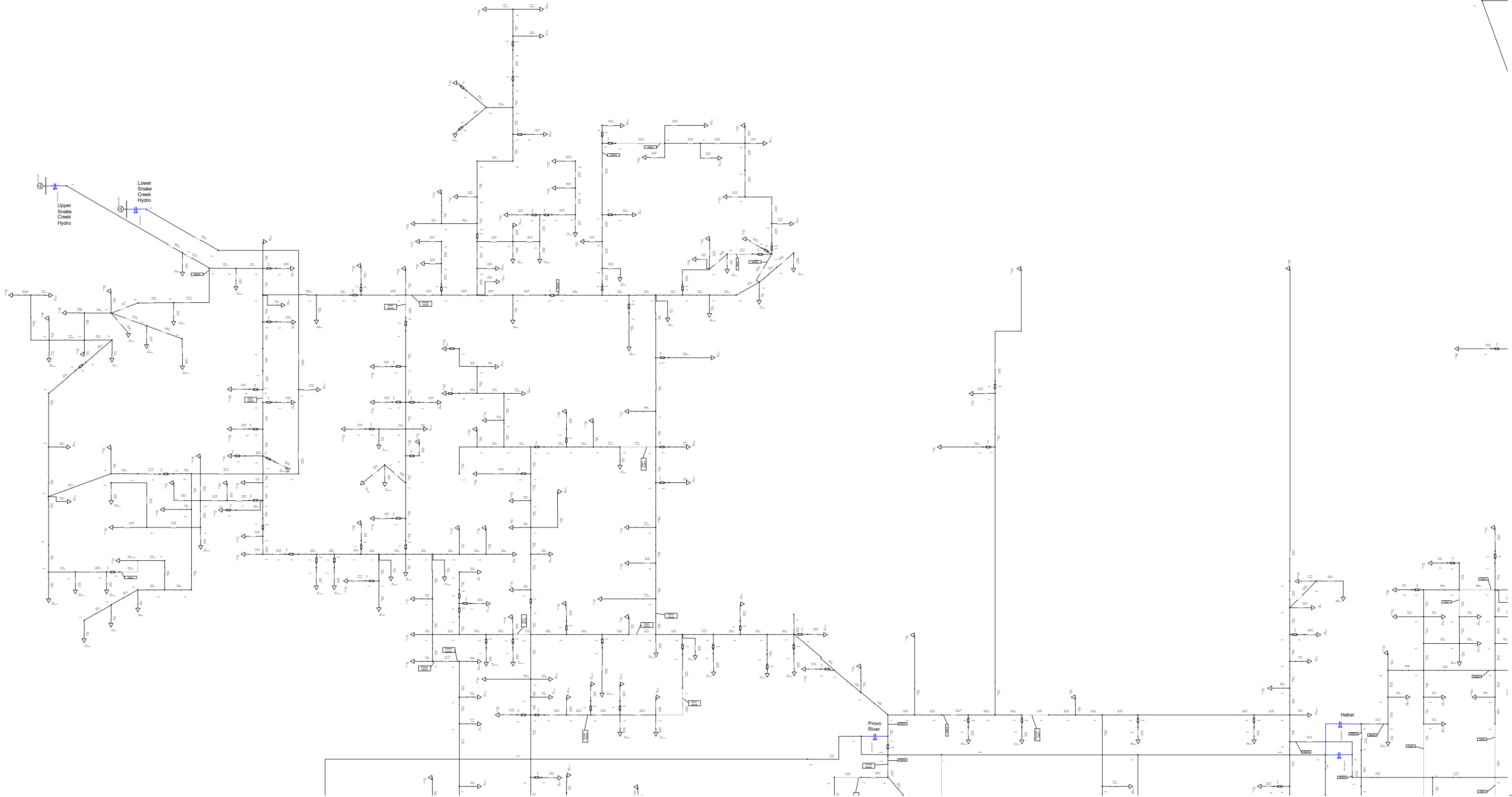


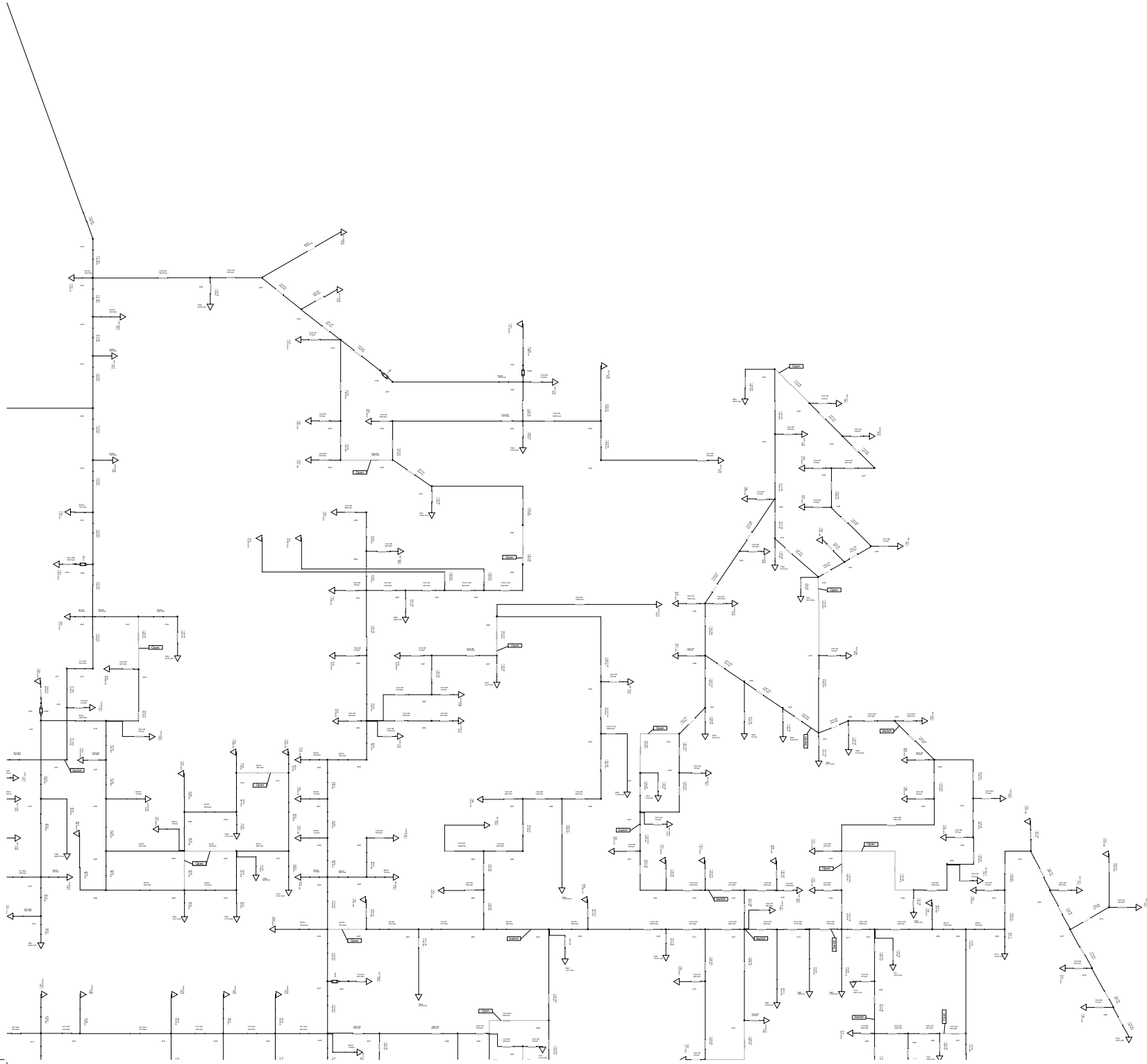
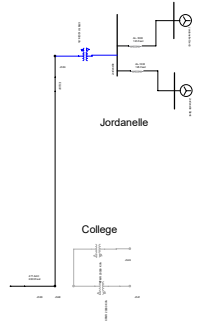


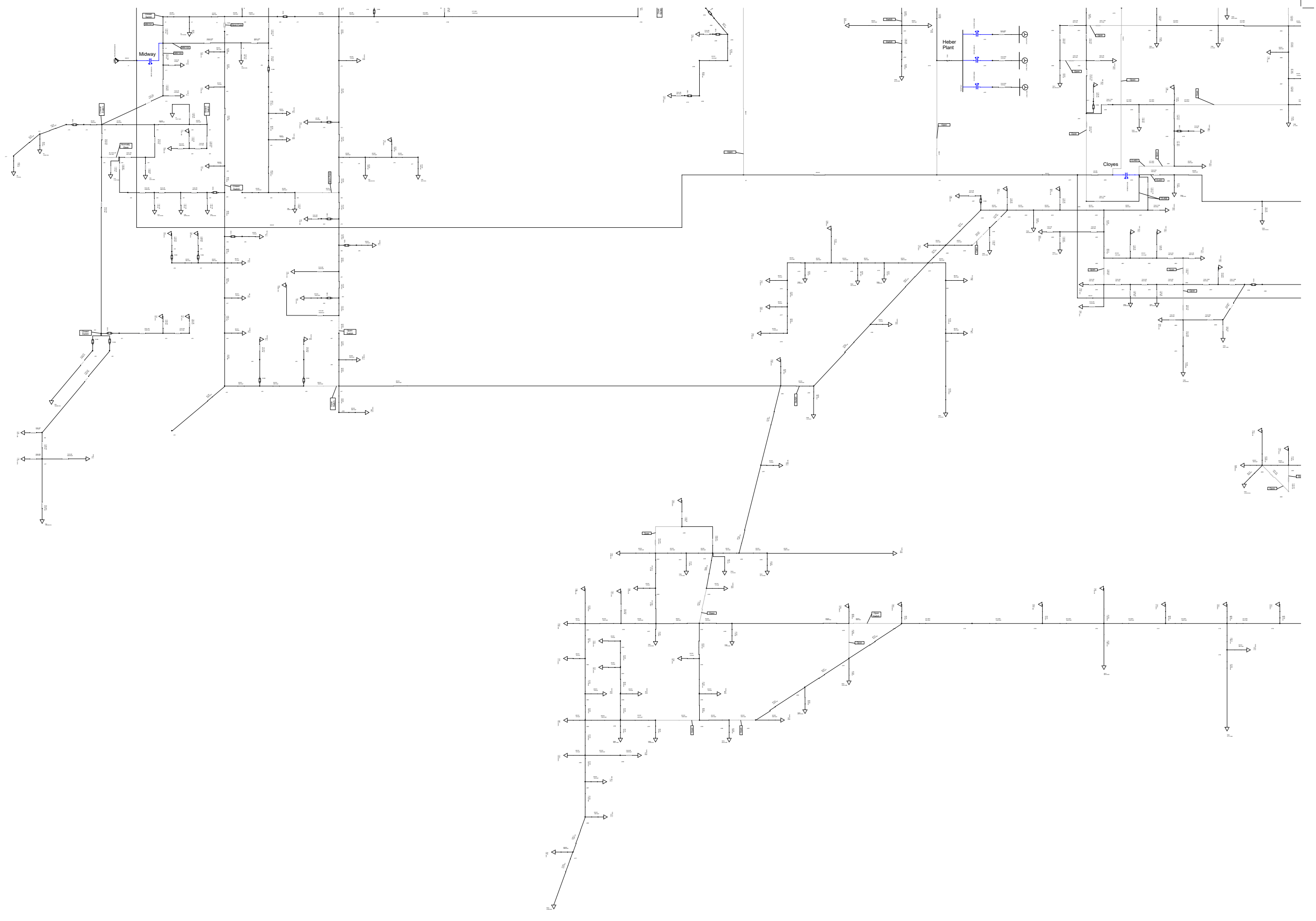


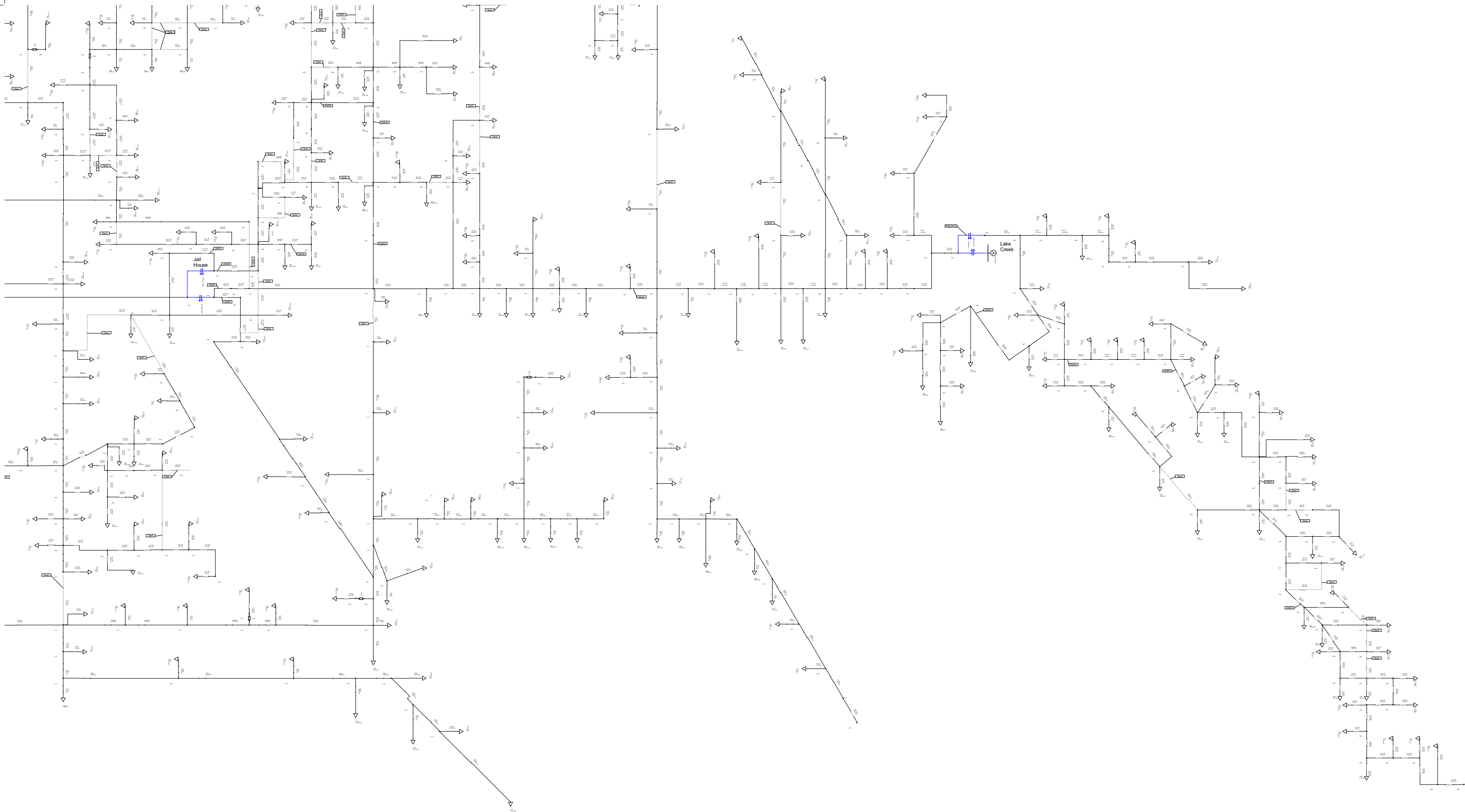
APPENDIX 4 – MODEL INPUT DATA

2018
Input Data









Project No. : Page : 1
Project Name: Heber City Date : 01/15/2019
Title : Time : 10:25:37 am
Drawing No. : Company : ICPE
Revision No.: Engineer: MTF
Jobfile Name: Heber_2018_Input_Data Check by:
Scenario : 1 : Date :

System Summary

Base MVA : 100.000
System Frequency(Hz) : 60
of Total Buses : 1733
of Active Buses : 1722
of Total Branches : 1727
of Active Sources : 9
of Active Motors : 0
of Active Shunts : 736
of Transformers : 17
Reference Temperature(°C) : 20.0
Impedance Displaying Temperature(°C) : 25.0

Calculation Options

Calculating All or Mult-Buses Fault with Fault Z = 0.00000 + j 0.00000 Ohms

Fault Phases:
Phase A for Line-Ground Fault
Phase B,C for Line-Line or Line-Line-Ground Fault

Classical Calculation:
Complex Z for X/R and Fault Current

Transformer Phase Shift is not considered.
Generator and Motor X/R is constant.
Base Voltages : Adjusted by Tap/Turn Ratio
Prefault Voltages : Use System Voltages

Input Data Report

Utility/Power Company Data

Bus Name	System V	Cd	SCKVA	X"/R	Ground
PACIFICORP MIDWAY	46000	PC	889825.3-3P	19.901(+)	Solid
Actual V.->	46000		770965.6-LL	19.433(-)	
			1154882-LG	8.7569(0)	

Generator Data

Bus Name	System	V	Cd	kVA	%X	X/R	Ground	Ohms
Heber Gen1		4160	GS	6082.0	13.00	29.00	(+) "	Solid
Actual V.->		4160			21.10	29.00	(+) '	
					267.0	29.00	(+)	
					12.50	29.00	(-)	
					2.600	29.00	(0)	
Heber Gen2		4160	GS	4486.0	13.00	29.00	(+) "	Solid
Actual V.->		4160			21.10	29.00	(+) '	
					267.0	29.00	(+)	
					12.50	29.00	(-)	
					2.600	29.00	(0)	
Heber Gen3		4160	GS	3189.0	13.00	29.00	(+) "	Solid
Actual V.->		4160			21.10	29.00	(+) '	
					267.0	29.00	(+)	
					12.50	29.00	(-)	
					2.600	29.00	(0)	
Jordanelle Gen3		12470	GS	7222.0	22.30	29.00	(+) "	R 713
Actual V.->		12470			32.80	29.00	(+) ' X	0
					108.5	29.00	(+)	
					24.80	29.00	(-)	
					20.90	29.00	(0)	
Jordanelle Gen4		12470	GS	7222.0	22.30	29.00	(+) "	R 713
Actual V.->		12470			32.80	29.00	(+) ' X	0
					108.5	29.00	(+)	
					24.80	29.00	(-)	
					20.90	29.00	(0)	
LAKE PLANT		480	GS	1500.0	22.30	29.00	(+) "	R 713
Actual V.->		480			32.80	29.00	(+) ' X	0
					108.5	29.00	(+)	
					24.80	29.00	(-)	
					20.90	29.00	(0)	
SNAKE CREEK		480	GS	1180.0	22.30	29.00	(+) "	Solid
Actual V.->		480			32.80	29.00	(+) '	
					108.5	29.00	(+)	
					24.80	29.00	(-)	
					20.90	29.00	(0)	
SNAKE CREEK1		480	GS	800.00	22.30	29.00	(+) "	Solid
Actual V.->		480			32.80	29.00	(+) '	
					108.5	29.00	(+)	
					24.80	29.00	(-)	
					20.90	29.00	(0)	

 Transformers Data

Branch Name	Cd Device Type	kVA	%R	%X	Nameplt V	Ground Ohms
CLOYES	TR XFMR 9375 KVA	9375.0	0	9.99 (+)	46000	Delta
			0	9.99 (0)	12470	Y-Solid
	%Z = 9.99 X/R =		-	(+)		
Heber Xfmr1	TR XFMR 14000 KVA	14000	0	9.100 (+)	4160	Delta
			0	9.100 (0)	46000	Y-Solid
	%Z = 9.100 X/R =		-	(+)		
Heber Xfmr2	TR XFMR 7500 KVA	5000.0	0	6.400 (+)	4160	Delta
			0	6.400 (0)	46000	Y-Solid
	%Z = 6.400 X/R =		-	(+)		
Heber Xfmr3	TR XFMR 5000 KVA	5000.0	0	6.400 (+)	4160	Delta
			0	6.400 (0)	46000	Y-Solid
	%Z = 6.400 X/R =		-	(+)		
Heber Xfmr4	TR XFMR 2000 KVA	2000.0	0	5.320 (+)	480	Delta
			0	5.320 (0)	12470	Y-Solid
	%Z = 5.320 X/R =		-	(+)		
Heber Xfmr5	TR XFMR 2000 KVA	2000.0	0	5.320 (+)	480	Delta
			0	5.320 (0)	12470	Y-Solid
	%Z = 5.320 X/R =		-	(+)		
Heber Xfmr6	TR XFMR 2000 KVA	2000.0	0	5.320 (+)	480	Delta
			0	5.320 (0)	12470	Y-Solid
	%Z = 5.320 X/R =		-	(+)		
Heber Xfmr7	TR Regulators	10000	0	1.000 (+)	12470	Y-Solid
			0	1.000 (0)	12470	Y-Solid
	%Z = 1.000 X/R =		-	(+)		
HEBER1	TR XFMR 20000 KVA	20000	0	12.83 (+)	46000	Delta
			0	12.83 (0)	12470	Y-Solid
	%Z = 12.83 X/R =		-	(+)		
HEBER2	TR XFMR 20000 KVA	20000	0	11.75 (+)	46000	Delta
			0	11.75 (0)	12470	Y-Solid
	%Z = 11.75 X/R =		-	(+)		
JAIL HOUSE1	TR XFMR 14000 KVA	14000	0	11.41 (+)	46000	Delta
			0	11.41 (0)	12470	Y-Solid
	%Z = 11.41 X/R =		-	(+)		
JAIL HOUSE2	TR XFMR 20000 KVA	20000	0	13.53 (+)	46000	Delta
			0	13.53 (0)	12470	Y-Solid
	%Z = 13.53 X/R =		-	(+)		
Jordanelle Xfmr	TR XFMR 14000 kVA	14000	0	9.400 (+)	12470	Delta
			0	9.400 (0)	12470	Y-Solid
	%Z = 9.400 X/R =		-	(+)		
MIDWAY	TR XFMR 14000 KVA	14000	0	11.07 (+)	46000	Delta
			0	11.07 (0)	12470	Y-Solid
	%Z = 11.07 X/R =		-	(+)		
PROVO RIVER	TR XFMR 5000 KVA	5000.0	0	6.550 (+)	46000	Delta
			0	6.550 (0)	12470	Y-Solid
	%Z = 6.550 X/R =		-	(+)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH1		EQUIV	1000	0.0002	0.0002	(+)	20.0
				0.0002	0.0002	(0)	
OH10		EQUIV	1000	0.6857	0.9552	(+)	20.0
				1.1773	3.2210	(0)	
OH100	#2	OH	330	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH101	4/0	OH	310	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH102	#2	OH	350	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH103	#2	OH	820	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH104	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH105	4/0	OH	680	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH106	4/0	OH	220	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH107	4/0	OH	690	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH108	4/0	OH	250	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH109	#2	CU	780	0.1637	0.1392	(+)	20.0
				0.2768	0.4112	(0)	
OH11	#2	OH	1400	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH110	#2	CU	600	0.1637	0.1392	(+)	20.0
				0.2768	0.4112	(0)	
OH111	#2	CU	210	0.1637	0.1392	(+)	20.0
				0.2768	0.4112	(0)	
OH112	#2	CU	1200	0.1637	0.1392	(+)	20.0
				0.2768	0.4112	(0)	
OH113	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH114	#4	CU-1	710	0.2579	0.1611	(+)	20.0
				0.3826	0.4767	(0)	
OH115	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH116	#2	CU	450	0.1637	0.1392	(+)	20.0
				0.2768	0.4112	(0)	
OH117	#2	CU	1150	0.1637	0.1392	(+)	20.0
				0.2768	0.4112	(0)	
OH118	#2	CU	370	0.1637	0.1392	(+)	20.0
				0.2768	0.4112	(0)	
OH119	4/0	OH	450	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH12	#2	OH	1400	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH120	#4	OH	860	0.4159 0.5502	0.1428 0.5054	(+) (0)	20.0
OH121	4/0	OH	660	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH122	#2	OH	10	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH123	4/0	OH	730	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH124	#6	CU-2	360	0.4105 0.5443	0.1462 0.5073	(+) (0)	20.0
OH125	4/0	OH	560	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH126	4/0	OH	370	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH127	4/0	OH	760	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH128	#2	OH	10	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH129	4/0	OH	500	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH13	#2	OH	10	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH130	4/0	OH	880	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH132	4/0	OH	500	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH133	4/0	OH	660	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH134	4/0	OH	540	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH135	#2	OH	10	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH136	#2	OH	530	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH137	#2	OH	1150	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH138	4/0	OH	850	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH139	4/0	OH	560	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH14	#2	OH	10	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH140	4/0	OH	415	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH142	#2	OH	50	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH143	#2	OH	420	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH144	#4	OH	750	0.4159 0.5502	0.1428 0.5054	(+) (0)	20.0
OH145	#2	OH	50	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH146	#4	OH	50	0.4159 0.5502	0.1428 0.5054	(+) (0)	20.0
OH147	#4	OH	420	0.4159 0.5502	0.1428 0.5054	(+) (0)	20.0
OH148	#4	OH	450	0.4159 0.5502	0.1428 0.5054	(+) (0)	20.0
OH149	#4	OH	1200	0.4159 0.5502	0.1428 0.5054	(+) (0)	20.0
OH15	4/0	OH	650	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH150	#4	OH	290	0.4159 0.5502	0.1428 0.5054	(+) (0)	20.0
OH151	#4	OH	100	0.4159 0.5502	0.1428 0.5054	(+) (0)	20.0
OH152	#4	OH	50	0.4159 0.5502	0.1428 0.5054	(+) (0)	20.0
OH153	#4	OH	50	0.4159 0.5502	0.1428 0.5054	(+) (0)	20.0
OH154	#2	OH	310	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH155	#2	OH	650	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH156	#2	OH	1480	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH157	#2	OH	390	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH158	#2	OH	570	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH159	#2	OH	800	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH16	4/0	OH	1060	0.0820 0.1588	0.1244 0.3557	(+) (0)	20.0
OH160	#2	OH	680	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH162	#2	OH	200	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
OH163	#2	OH	10	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH164	#2	OH	860	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH165	#2	OH	510	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH166	#2	OH	300	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH167	#4	OH	370	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH168	#4	OH	300	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH169	#2	OH	670	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH17	4/0	OH	350	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH170	#2	OH	650	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH171	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH172	#2	OH	700	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH173	477	AAC	2000	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH174	477	AAC	1230	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH175	477	AAC	630	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH177	#2	OH	350	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH178	#2	OH	350	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH179	#2	OH	1420	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH18	#2	OH	1060	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH180	#2	OH	750	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH181	#2	OH	1330	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH182	4/0	OH	1080	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH183	4/0	OH	720	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH184	EQUIV		1000	0.0002	0.0002	(+)	20.0
				0.0002	0.0002	(0)	
OH185	#2	OH	150	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH186	4/0 OH	240	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH187	4/0 OH	240	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH188	4/0 OH	360	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH189	4/0 OH	310	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH19	#2 OH	530	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH190	#4 OH	1500	0.4159	0.1428 (+)		20.0
			0.5502	0.5054 (0)		
OH191	4/0 OH	200	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH192	477 AAC	230	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH193	#2 OH	3050	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH194	477 AAC	850	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH195	477 AAC	510	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH196	#2 OH	620	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH197	#4 OH	1160	0.4159	0.1428 (+)		20.0
			0.5502	0.5054 (0)		
OH198	#2 OH	530	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH199	#2 OH	850	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH2	4/0 OH	850	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH20	#2 OH	500	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH200	#2 OH	1000	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH201	#4 OH	1130	0.4159	0.1428 (+)		20.0
			0.5502	0.5054 (0)		
OH202	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH203	#2 OH	710	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH204	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH205	#2 OH	530	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH206	#2	OH	100	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH207	#2	OH	750	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH208	#2	OH	1800	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH209	#2	OH	750	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH21	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH210	4/0	OH	760	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH211	#2	OH	1900	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH212	#2	OH	250	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH213	#2	OH	670	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH214	#2	OH	270	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH215	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH216	#6	CU	150	0.4105	0.1462	(+)	20.0
				0.5443	0.5073	(0)	
OH217	#2	OH	570	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH218	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH219	#2	OH	1620	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH22	#2	OH	440	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH220	4/0	OH	440	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH221	#2	OH	370	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH222	4/0	OH	830	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH223	#2	OH	100	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH224	#4	OH	510	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH225	#4	OH	1000	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH226	#4	OH	340	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device	Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH227	#4	OH		690	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH228	#4	OH		490	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH229	#4	OH		210	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH23	#2	OH		170	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH230	#4	OH		220	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH231	#4	OH		1100	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH232	#4	OH		950	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH233	#4	OH		1600	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH234	#4	OH		1090	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH235	#4	OH		1400	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH236	#4	OH		1350	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH237	#4	OH		1200	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH238	#4	OH		730	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH239	#4	OH		200	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH24	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH240	4/0	OH		450	0.0820	0.1244 (+)		20.0
					0.1588	0.3557 (0)		
OH241	4/0	OH		1600	0.0820	0.1244 (+)		20.0
					0.1588	0.3557 (0)		
OH242	#2	OH		400	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH243	4/0	OH		300	0.0820	0.1244 (+)		20.0
					0.1588	0.3557 (0)		
OH244	#2	OH		770	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH245	#2	OH		340	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH246	#2	OH		810	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH247	#2	OH		480	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device	Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH248	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH249	#2	OH		1200	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH25	#2	OH		570	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH250	#2	OH		430	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH251	#4	OH		870	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH252	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH253	#4	OH		1080	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH254	#4	OH		330	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH255	#4	OH		410	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH256	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH257	#4	OH		950	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH258	#4	OH		950	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH259	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH26	#2	OH		640	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH260	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH261	#4	OH		400	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH262	#4	OH		1160	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH263	#4	OH		1130	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH264	#4	OH		700	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH265	#4	OH		1530	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH266	#4	OH		230	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH267	#4	OH		850	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH268	#4	OH		900	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH269	#4	OH	830	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH27	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH270	#4	OH	10	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH272	#4	OH	370	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH273	#4	OH	630	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH274	#4	OH	840	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH275	#4	OH	1880	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH276	4/0	OH	50	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH277	#4	OH	800	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH278	#4	OH	1090	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH279	#4	OH	480	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH28	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH280	#2	OH	380	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH281	#4	OH	1800	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH282	#4	OH	10	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH283	#4	OH	10	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH284	#2	OH	600	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH285	#4	OH	10	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH286	#4	OH	800	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH287	#4	OH	1400	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH288	#4	OH	1300	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH289	#4	OH	600	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH29	#4	OH	900	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH290	#2	OH	550	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH291	#4	OH	400	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH292	477	AAC	200	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH293	477	AAC	1530	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH294	477	AAC	1250	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH295	#2	OH	400	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH296	#2	OH	5440	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH297	#2	OH	1140	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH298	#2	OH	1390	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH3	4/0	OH	890	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH30	#4	OH	690	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH300	477	AAC	400	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH301	#2	OH	560	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH302	477	AAC	1050	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH303	4/0	OH	2050	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH304	#2	OH	100	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH305	4/0	OH	940	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH306	#2	OH	2200	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH307	#2	OH	360	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH308	#2	OH	700	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH309	477	AAC	950	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH31	#2	OH	1050	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH310	477	AAC	980	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH311	477 AAC	840	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH312	4/0 OH	460	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH313	4/0 OH	410	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH314	#2 OH	290	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH315	477 AAC	580	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH316	477 AAC	420	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH317	477 AAC	350	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH318	477 AAC	530	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH32	#2 OH	640	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH320	EQUIV	1000	0.0409	0.2476 (+)		20.0
			0.1894	0.9310 (0)		
OH321	4/0 OH	50	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH323	EQUIV	1000	0.2744	0.3821 (+)		20.0
			0.4711	1.2889 (0)		
OH324	4/0 OH	50	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH325	EQUIV	1000	0.6816	0.9497 (+)		20.0
			1.1705	3.2019 (0)		
OH326	#4 OH	600	0.4159	0.1428 (+)		20.0
			0.5502	0.5054 (0)		
OH328	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH329	#2 OH	690	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH33	#2 OH	470	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH330	#2 OH	400	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH331	#2 OH	520	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH332	#2 OH	500	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH333	#2 OH	200	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH334	#2 OH	570	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device	Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH335	#2	OH		500	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH336	#2	OH		500	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH337	#2	OH		210	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH338	#2	OH		530	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH339	#2	OH		600	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH34	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH340	#2	OH		890	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH341	#2	OH		1330	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH342	#2	OH		2210	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH343	#2	OH		200	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH344	#2	OH		200	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH345	#2	OH		2910	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH346	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH347	#2	OH		2090	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH348	#2	OH		1570	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH349	#2	OH		500	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH35	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH350	#2	OH		560	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH351	#2	OH		700	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH352	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH353	#2	OH		1430	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH354	#4	OH		650	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH355	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device	Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH356	#4	OH		3050	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH357	#4	OH		150	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH358	#4	OH		680	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH359	#4	OH		840	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH36	#2	OH		2430	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH360	#4	OH		10	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH361	#4	OH		10	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH362	#4	OH		1100	0.4159	0.1428 (+)		20.0
					0.5502	0.5054 (0)		
OH363	#2	OH		1360	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH364	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH366	#2	OH		1140	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH367	#2	OH		1500	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH368	#2	OH		380	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH369	#2	OH		400	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH37	#2	OH		900	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH370	#2	OH		2420	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH371	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH374	#2	OH		800	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH375	#2	OH		1300	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH376	#2	OH		1360	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH377	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH378	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH379	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device	Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH38	#2	OH		850	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH380	#2	OH		1460	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH381	#6	CU		950	0.4105	0.1462	(+)	20.0
					0.5443	0.5073	(0)	
OH382	#4	OH		1240	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH383	#4	OH		530	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH384	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH385	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH387	#4	OH		800	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH388	#4	OH		1030	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH389	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH390	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH391	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH392	#4	OH		510	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH393	#4	OH		980	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH394	#4	OH		540	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH395	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH396	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH397	#4	OH		10	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH398	#6	CU		550	0.4105	0.1462	(+)	20.0
					0.5443	0.5073	(0)	
OH399	#2	OH		1110	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH4	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH40	#2	OH		610	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH400	#2	OH		980	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH401	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH402	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH403	#4	OH	1380	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH404	#2	OH	1280	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH405	#4	OH	10	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH406	#4	OH	550	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH407	#4	OH	1100	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH408	#4	OH	100	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH409	#4	OH	100	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH41	#2	OH	590	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH410	#4	OH	870	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH412	#4	OH	300	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH413	#4	OH	1530	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH414	#4	OH	2250	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH415	#4	OH	660	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH416	#2	OH	2000	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH417	#2	OH	720	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH418	#2	OH	650	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH419	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH42	#2	OH	1330	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH420	#2	OH	1330	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH421	#2	OH	940	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH422	#2	OH	1120	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	

 Feeders/Cables Data

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Branch Name	#C	Device	Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH423	#2	OH		970	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH424	#2	OH		850	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH425	#2	OH		980	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH426	#2	OH		1150	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH427	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH428	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH429	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH43	#2	OH		1010	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH430	#2	OH		5250	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH431	#2	OH		650	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH432	4/0	OH		530	0.0820	0.1244 (+)		20.0
					0.1588	0.3557 (0)		
OH433	#2	OH		890	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH434	4/0	OH		530	0.0820	0.1244 (+)		20.0
					0.1588	0.3557 (0)		
OH435	#2	OH		1070	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH436	#2	OH		840	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH437	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH438	#2	OH		100	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH439	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH44	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH440	#2	OH		480	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		
OH441	4/0	OH		1840	0.0820	0.1244 (+)		20.0
					0.1588	0.3557 (0)		
OH442	4/0	OH		1220	0.0820	0.1244 (+)		20.0
					0.1588	0.3557 (0)		
OH443	#2	OH		10	0.2618	0.1378 (+)		20.0
					0.3953	0.4524 (0)		

 Feeders/Cables Data

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Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH444	4/0 OH	370	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH445	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH446	4/0 OH	660	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH448	#2 OH	450	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH449	477 AAC	2510	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH45	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH450	477 AAC	790	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH451	477 AAC	480	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH452	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH453	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH454	477 AAC	420	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH455	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH456	#4 CU	600	0.2579	0.1611 (+)		20.0
			0.3826	0.4767 (0)		
OH457	#2 OH	710	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH459	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH46	#2 OH	680	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH460	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH461	#4 CU	490	0.2579	0.1611 (+)		20.0
			0.3826	0.4767 (0)		
OH462	#4 CU	410	0.2579	0.1611 (+)		20.0
			0.3826	0.4767 (0)		
OH463	#4 OH	410	0.4159	0.1428 (+)		20.0
			0.5502	0.5054 (0)		
OH464	#4 OH	480	0.4159	0.1428 (+)		20.0
			0.5502	0.5054 (0)		
OH465	#4 OH	600	0.4159	0.1428 (+)		20.0
			0.5502	0.5054 (0)		
OH467	477 AAC	960	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH468	#4	OH	200	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH469	#4	OH	10	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH470	#4	CU	610	0.2579	0.1611 (+)		20.0
				0.3826	0.4767 (0)		
OH471	#4	CU	420	0.2579	0.1611 (+)		20.0
				0.3826	0.4767 (0)		
OH472	#4	OH	380	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH473	#4	OH	10	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH474	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH475	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH476	#4	OH	480	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH478	477	AAC	480	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH479	477	AAC	490	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH48	4/0	OH	320	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH480	#2	OH	270	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH481	477	AAC	750	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH482	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH483	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH484	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH485	477	AAC	520	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH486	477	AAC	370	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH487	#2	CU	1000	0.1637	0.1392 (+)		20.0
				0.2768	0.4112 (0)		
OH488	477	AAC	320	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH489	477	AAC	430	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH49	#2	OH	960	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH490	#2 OH	540	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
OH491	#2 OH	620	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
OH492	#2 OH	10	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
OH493	477 AAC	300	0.0368	0.1542	(+)	20.0
			0.0762	0.3964	(0)	
OH494	477 AAC	860	0.0368	0.1542	(+)	20.0
			0.0762	0.3964	(0)	
OH495	#2 OH	100	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
OH496	477 AAC	770	0.0368	0.1542	(+)	20.0
			0.0762	0.3964	(0)	
OH497	477 AAC	730	0.0368	0.1542	(+)	20.0
			0.0762	0.3964	(0)	
OH498	#2 OH	100	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
OH499	477 AAC	460	0.0368	0.1542	(+)	20.0
			0.0762	0.3964	(0)	
OH5	#2 OH	550	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
OH50	4/0 OH	1560	0.0820	0.1244	(+)	20.0
			0.1588	0.3557	(0)	
OH500	477 AAC	570	0.0368	0.1542	(+)	20.0
			0.0762	0.3964	(0)	
OH501	477 AAC	930	0.0368	0.1542	(+)	20.0
			0.0762	0.3964	(0)	
OH502	#2 OH	400	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
OH503	#2 OH	300	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
OH504	477 AAC	1050	0.0368	0.1542	(+)	20.0
			0.0762	0.3964	(0)	
OH505	477 AAC	6760	0.0368	0.1542	(+)	20.0
			0.0762	0.3964	(0)	
OH506	477 AAC	2000	0.0368	0.1542	(+)	20.0
			0.0762	0.3964	(0)	
OH507	EQUIV	1000	0.4536	2.3047	(+)	20.0
			1.0851	6.4425	(0)	
OH508	#2 OH	1250	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
OH509	#2 OH	200	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
OH51	4/0 OH	640	0.0820	0.1244	(+)	20.0
			0.1588	0.3557	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device	Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH510	#2	OH		300	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH511	#2	OH		860	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH512	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH513	#2	OH		490	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH515	#2	OH		490	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH516	#2	OH		290	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH517	#2	OH		650	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH519	#4	CU		580	0.2579	0.1611	(+)	20.0
					0.3826	0.4767	(0)	
OH52	4/0	OH		530	0.0820	0.1244	(+)	20.0
					0.1588	0.3557	(0)	
OH520	#4	CU		460	0.2579	0.1611	(+)	20.0
					0.3826	0.4767	(0)	
OH521	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH522	#2	OH		480	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH523	#2	OH		480	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH525	#6	CU		960	0.4105	0.1462	(+)	20.0
					0.5443	0.5073	(0)	
OH526	#4	CU		480	0.2579	0.1611	(+)	20.0
					0.3826	0.4767	(0)	
OH527	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH528	#6	CU		10	0.4105	0.1462	(+)	20.0
					0.5443	0.5073	(0)	
OH529	#6	CU		10	0.4105	0.1462	(+)	20.0
					0.5443	0.5073	(0)	
OH53	4/0	OH		820	0.0820	0.1244	(+)	20.0
					0.1588	0.3557	(0)	
OH530	#2	OH		270	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH531	#4	OH		470	0.4159	0.1428	(+)	20.0
					0.5502	0.5054	(0)	
OH532	#4	CU		340	0.2579	0.1611	(+)	20.0
					0.3826	0.4767	(0)	
OH533	#2	OH		50	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH534	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH535	#2 CU	900	0.1637	0.1392 (+)		20.0
			0.2768	0.4112 (0)		
OH536	#2 CU	950	0.1637	0.1392 (+)		20.0
			0.2768	0.4112 (0)		
OH537	#4 CU	600	0.2579	0.1611 (+)		20.0
			0.3826	0.4767 (0)		
OH538	#2 CU	10	0.1637	0.1392 (+)		20.0
			0.2768	0.4112 (0)		
OH539	477 AAC	490	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH54	4/0 OH	560	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH540	477 AAC	950	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH541	#2 CU	740	0.1637	0.1392 (+)		20.0
			0.2768	0.4112 (0)		
OH542	#2 CU	10	0.1637	0.1392 (+)		20.0
			0.2768	0.4112 (0)		
OH543	477 AAC	580	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH544	477 AAC	480	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH545	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH546	477 AAC	610	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH547	#6 CU	590	0.4105	0.1462 (+)		20.0
			0.5443	0.5073 (0)		
OH548	477 AAC	610	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH549	477 AAC	60	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH55	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH550	477 AAC	480	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH551	477 AAC	960	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH552	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH553	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH556	477 AAC	410	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH557	#4 OH	480	0.4159	0.1428 (+)		20.0
			0.5502	0.5054 (0)		
OH558	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH559	477 AAC	410	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH56	4/0 OH	410	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH560	477 AAC	500	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH561	477 AAC	490	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH562	477 AAC	450	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH563	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH564	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH565	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH566	4/0 OH	360	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH567	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH568	4/0 OH	460	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH569	4/0 OH	790	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH57	4/0 OH	720	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH570	4/0 OH	490	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH571	#2 OH	450	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH572	#2 OH	270	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH573	#2 OH	570	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH574	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH575	#2 OH	1760	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH576	477 AAC	800	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH577	477 AAC	800	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH578	477 AAC	750	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH579	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH58	#2 OH	580	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH580	#2 OH	1300	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH581	#2 OH	520	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH583	#2 OH	700	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH584	477 AAC	500	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH585	#4 CU	700	0.2579	0.1611 (+)		20.0
			0.3826	0.4767 (0)		
OH586	477 AAC	710	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH587	477 AAC	480	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH588	#6 CU	480	0.4105	0.1462 (+)		20.0
			0.5443	0.5073 (0)		
OH589	#6 CU	900	0.4105	0.1462 (+)		20.0
			0.5443	0.5073 (0)		
OH59	#2 OH	470	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH590	477 AAC	480	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH591	477 AAC	490	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH592	#6 CU	10	0.4105	0.1462 (+)		20.0
			0.5443	0.5073 (0)		
OH593	#4 OH	500	0.4159	0.1428 (+)		20.0
			0.5502	0.5054 (0)		
OH594	#6 CU	830	0.4105	0.1462 (+)		20.0
			0.5443	0.5073 (0)		
OH595	#6 CU	10	0.4105	0.1462 (+)		20.0
			0.5443	0.5073 (0)		
OH596	#2 OH	800	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH597	#2 OH	480	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH598	#2 OH	480	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH6	EQUIV	1000	1.4389	2.0043 (+)		20.0
			2.4702	6.7581 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH60	#2	OH	270	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH602	#6	CU	1300	0.4105	0.1462 (+)		20.0
				0.5443	0.5073 (0)		
OH603	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH604	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH605	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH606	#6	CU	10	0.4105	0.1462 (+)		20.0
				0.5443	0.5073 (0)		
OH607	#4	OH	420	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH608	#4	OH	1300	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH61	#2	OH	590	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH610	#4	OH	1300	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH611	#6	CU	10	0.4105	0.1462 (+)		20.0
				0.5443	0.5073 (0)		
OH612	#6	CU	10	0.4105	0.1462 (+)		20.0
				0.5443	0.5073 (0)		
OH613	477	AAC	460	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH614	477	AAC	500	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH615	477	AAC	470	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH616	#2	OH	1000	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH618	#2	OH	480	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH619	#6	CU	650	0.4105	0.1462 (+)		20.0
				0.5443	0.5073 (0)		
OH62	#2	OH	350	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH620	#6	CU	10	0.4105	0.1462 (+)		20.0
				0.5443	0.5073 (0)		
OH621	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH622	#2	OH	780	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH623	#2	OH	660	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device	Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH624	#2	OH		480	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH625	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH626	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH627	#2	OH		320	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH628	#2	OH		200	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH629	#2	OH		230	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH63	#2	OH		560	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH630	#2	OH		830	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH631	#2	OH		800	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH632	#2	OH		400	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH633	4/0	OH		960	0.0820	0.1244	(+)	20.0
					0.1588	0.3557	(0)	
OH634	4/0	OH		770	0.0820	0.1244	(+)	20.0
					0.1588	0.3557	(0)	
OH635	#6	CU		1300	0.4105	0.1462	(+)	20.0
					0.5443	0.5073	(0)	
OH636	#2	OH		1000	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH637	4/0	OH		620	0.0820	0.1244	(+)	20.0
					0.1588	0.3557	(0)	
OH638	4/0	OH		440	0.0820	0.1244	(+)	20.0
					0.1588	0.3557	(0)	
OH639	#2	OH		100	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH64	4/0	OH		270	0.0820	0.1244	(+)	20.0
					0.1588	0.3557	(0)	
OH640	#2	OH		980	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH641	#2	OH		680	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH642	#2	OH		300	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH643	#2	OH		1280	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH644	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH645	#2	OH	660	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH646	#2	OH	2000	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH647	#2	OH	100	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH648	4/0	OH	370	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH649	4/0	OH	490	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH65	4/0	OH	550	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH650	#2	OH	410	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH651	#2	OH	760	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH653	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH654	#2	OH	200	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH655	477	AAC	1040	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH656	477	AAC	1160	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH658	477	AAC	2180	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH659	477	AAC	960	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH66	4/0	OH	480	0.0820	0.1244	(+)	20.0
				0.1588	0.3557	(0)	
OH660	#2	OH	100	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH661	477	AAC	900	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH662	477	AAC	1990	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH663	#2	OH	100	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH664	477	AAC	650	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH665	477	AAC	1030	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH666	477	AAC	1180	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH667	477	AAC	720	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH668	477	AAC	1130	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH669	477	AAC	980	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH67	4/0	OH	330	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH670	477	AAC	1320	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH671	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH672	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH673	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH674	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH675	#4	OH	780	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH676	#4	OH	400	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH677	477	AAC	610	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH678	#4	CU	690	0.2579	0.1611 (+)		20.0
				0.3826	0.4767 (0)		
OH679	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH68	4/0	OH	210	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH680	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH681	477	AAC	1600	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH682	477	AAC	900	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH683	#2	OH	600	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH684	#2	OH	1160	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH685	#2	OH	600	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH686	#2	OH	200	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH687	477	AAC	1280	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH688	477	AAC	1530	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH689	#2	OH	600	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH69	#4	OH	130	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH690	#2	OH	1300	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH691	#4	OH	1320	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH692	477	AAC	1630	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH693	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH694	477	AAC	1400	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH695	477	AAC	900	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH696	#2	OH	1440	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH697	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH698	#2	OH	930	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH699	#2	OH	1790	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH7		EQUIV	1000	0.2501	1.5144	(+)	20.0
				1.1586	5.6946	(0)	
OH70	#2	OH	1400	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH700	#2	OH	900	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH701	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH702	#2	OH	2400	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH703	#4	CU	2690	0.2579	0.1611	(+)	20.0
				0.3826	0.4767	(0)	
OH704	#4	CU	10	0.2579	0.1611	(+)	20.0
				0.3826	0.4767	(0)	
OH705	#4	CU	1800	0.2579	0.1611	(+)	20.0
				0.3826	0.4767	(0)	
OH706	#4	CU	2350	0.2579	0.1611	(+)	20.0
				0.3826	0.4767	(0)	
OH707	#4	OH	10	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH708	#8	CU	1960	0.7059	0.1556	(+)	20.0
				0.8230	0.5606	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH709	#4	OH	1600	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH710	#4	OH	1200	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH711	#4	OH	1040	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH712	#4	OH	1700	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH713	#4	OH	1520	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH714	#2	OH	1200	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH715	#4	OH	12200	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH716	#2	OH	560	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH717	#2	OH	460	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH718	#2	OH	1600	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH719	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH72	4/0	OH	890	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH720	#4	OH	1700	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH721	#2	OH	1030	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH722	#4	OH	960	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH723	#2	OH	1120	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH724	#2	OH	1110	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH725	#2	OH	780	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH726	#2	OH	1340	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH727	#4	OH	200	0.4159	0.1428 (+)		20.0
				0.5502	0.5054 (0)		
OH728	#2	OH	1150	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH729	#2	OH	10	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH73	4/0	OH	690	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device	Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH730	#2	OH		1000	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH731	#2	OH		500	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH732	#2	OH		1610	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH733	#2	OH		1300	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH734	#2	OH		1200	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH735	#2	OH		890	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH736	#2	OH		1240	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH738	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH739	#2	OH		200	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH74	477	AAC		440	0.0368	0.1542	(+)	20.0
					0.0762	0.3964	(0)	
OH740	#2	OH		500	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH741	#2	OH		870	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH742	#2	OH		200	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH743	#2	OH		1510	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH744	#2	OH		200	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH745	#2	OH		1120	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH746	#2	OH		1830	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH747	#2	OH		1450	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH748	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH749	#2	OH		780	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH75	477	AAC		1220	0.0368	0.1542	(+)	20.0
					0.0762	0.3964	(0)	
OH750	#2	OH		1300	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH751	#2	OH		5460	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device	Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH752	#2	OH		600	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH753	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH754	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH755	#2	OH		100	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH756	#2	OH		4460	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH757	#2	OH		100	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH758	#2	OH		1770	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH759	#2	OH		550	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH76	477	AAC		670	0.0368	0.1542	(+)	20.0
					0.0762	0.3964	(0)	
OH760	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH761	#2	OH		200	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH762	#2	OH		780	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH763	#2	OH		630	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH764	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH765	#2	OH		1120	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH766	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH767	#2	OH		400	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH768	#2	OH		630	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH769	#2	OH		500	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH77	#2	OH		10	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH770	#2	OH		600	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH771	#2	OH		1360	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	
OH772	#2	OH		750	0.2618	0.1378	(+)	20.0
					0.3953	0.4524	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH773	477 AAC	950	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH774	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH775	477 AAC	1960	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH776	477 AAC	520	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH777	#2 OH	100	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH778	#2 OH	1620	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH779	#2 OH	2180	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH78	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH781	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH782	#2 OH	500	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH783	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH784	477 AAC	1840	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH785	477 AAC	850	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH786	477 AAC	1280	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH787	#2 OH	300	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH788	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH789	477 AAC	610	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH79	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH790	477 AAC	750	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH791	#2 OH	200	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH792	#2 OH	200	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH793	477 AAC	930	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH794	#2 OH	1080	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH795	#2 OH	1700	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH796	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH797	477 AAC	1540	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH798	477 AAC	1450	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH799	#2 OH	200	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH80	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH800	#2 OH	750	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH801	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH802	477 AAC	780	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH803	477 AAC	1050	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH804	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH805	477 AAC	820	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH806	477 AAC	1550	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH807	477 AAC	1090	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH808	#2 OH	1220	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH809	477 AAC	1250	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH81	477 AAC	540	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH810	477 AAC	1220	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH811	#2 OH	800	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH812	477 AAC	1290	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH813	477 AAC	610	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH814	477 AAC	1190	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		
OH815	477 AAC	890	0.0368	0.1542 (+)		20.0
			0.0762	0.3964 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH816	477	AAC	650	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH817	#2	OH	940	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH818	477	AAC	250	0.0368	0.1542 (+)		20.0
				0.0762	0.3964 (0)		
OH819	#2	OH	7580	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH82	4/0	OH	590	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH820	#2	OH	760	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH821	#2	OH	1400	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH822	#2	OH	2240	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH823	#2	OH	1320	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH824	#2	OH	1800	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH825	4/0	OH	520	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH826	4/0	OH	810	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH827	4/0	OH	480	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH828	4/0	OH	480	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH829	#2	OH	900	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH83	4/0	OH	630	0.0820	0.1244 (+)		20.0
				0.1588	0.3557 (0)		
OH830	#2	OH	670	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH831	#2	OH	1000	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH832	#2	OH	1570	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH833	#2	OH	830	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH834	#2	OH	600	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH835	#2	OH	1230	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		
OH836	#2	OH	910	0.2618	0.1378 (+)		20.0
				0.3953	0.4524 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH839	#2	OH	600	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH84	477	AAC	570	0.0368	0.1542	(+)	20.0
				0.0762	0.3964	(0)	
OH840	#2	OH	1630	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH841	#2	OH	1420	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH842	#2	OH	1100	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH843	#2	OH	400	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH844	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH846	#2	OH	470	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH847	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH848	#2	OH	750	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH849	#2	OH	2170	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH85	#2	OH	410	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH850	#2	OH	490	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH851	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH852	#2	OH	1900	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH853	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH854	#2	OH	1020	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH855	#2	OH	1450	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH856	#2	OH	400	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH857	#4	OH	10	0.4159	0.1428	(+)	20.0
				0.5502	0.5054	(0)	
OH858		EQUIV	1000	0.0440	0.2668	(+)	20.0
				0.2041	1.0034	(0)	
OH86	#2	OH	200	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	
OH87	#2	OH	10	0.2618	0.1378	(+)	20.0
				0.3953	0.4524	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
OH88	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH89	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH9	EQUIV	1000	0.1435	8.6862 (+)		20.0
			0.6646	3.2665 (0)		
OH90	4/0 OH	700	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH91	4/0 OH	700	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH92	4/0 OH	325	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH93	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH94	#2 OH	200	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH95	4/0 OH	410	0.0820	0.1244 (+)		20.0
			0.1588	0.3557 (0)		
OH96	#2 OH	460	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH97	#4 OH	800	0.4159	0.1428 (+)		20.0
			0.5502	0.5054 (0)		
OH98	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
OH99	#2 OH	10	0.2618	0.1378 (+)		20.0
			0.3953	0.4524 (0)		
UG1	15 kV-750	160	0.0295	0.0409 (+)	0.02541	20.0
			0.1902	0.0600 (0)		
UG10	15 kV-#2	750	0.3441	0.0570 (+)	0.00841	20.0
			0.6558	0.2200 (0)		
UG100	15 kV-#2	1840	0.3441	0.0570 (+)	0.00841	20.0
			0.6558	0.2200 (0)		
UG101	15 kV-#2	1400	0.3441	0.0570 (+)	0.00841	20.0
			0.6558	0.2200 (0)		
UG102	15 kV-#2	300	0.3441	0.0570 (+)	0.00841	20.0
			0.6558	0.2200 (0)		
UG103	15 kV-#2	2000	0.3441	0.0570 (+)	0.00841	20.0
			0.6558	0.2200 (0)		
UG104	15 kV-4/0	1200	0.1059	0.0463 (+)	0.01517	20.0
			0.3156	0.0950 (0)		
UG105	15 kV-#2	390	0.3441	0.0570 (+)	0.00841	20.0
			0.6558	0.2200 (0)		
UG106	15 kV-#2	1000	0.3441	0.0570 (+)	0.00841	20.0
			0.6558	0.2200 (0)		
UG107	15 kV-#2	1600	0.3441	0.0570 (+)	0.00841	20.0
			0.6558	0.2200 (0)		

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG108	15	kV-#2	1130	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG109	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG11	15	kV-500	800	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG110	15	kV-4/0	1220	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG111	15	kV-4/0	1150	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG112	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG113	15	kV-4/0	1940	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG114	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG115	15	kV-4/0	1300	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG116	15	kV-4/0	1400	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG117	15	kV-4/0	900	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG118	15	kV-4/0	870	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG119	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG12	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG120	15	kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG121	15	kV-4/0	830	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG123	15	kV-#2	360	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG124	15	kV-#2	830	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG125	15	kV-4/0	1060	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG126	15	kV-4/0	730	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG127	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG128	15	kV-#2	500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG129	15	kV-#2	1400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG13	15	kV-#2	1400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG131	15	kV-#2	900	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG132	15	kV-#2	1300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG133	15	kV-#2	570	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG134	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG135	15	kV-4/0	640	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG136	15	kV-4/0	540	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG137	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG138	15	kV-#2	2140	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG139	15	kV-500	640	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG14	15	kV-#2	610	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG140	15	kV-500	640	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG141	15	kV-#2	950	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG142	15	kV-4/0	1000	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG143	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG144	15	kV-4/0	370	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG145	15	kV-4/0	290	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG146	15	kV-4/0	800	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG147	15	kV-4/0	730	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG148	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG149	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG15	15	kV-4/0	940	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG150	15	kV-4/0	740	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG151	15	kV-4/0	900	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG152	15	kV-#2	890	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG153	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG154	15	kV-#2	260	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG155	15	kV-#2	1260	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG156	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG157	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG158	15	kV-#2	50	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG159	15	kV-#2	350	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG16	15	kV-4/0	530	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG160	15	kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG161	15	kV-500	620	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG162	15	kV-500	900	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG163	15	kV-4/0	760	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG164	15	kV-4/0	730	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG165	15	kV-4/0	950	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG166	#2	OH	820	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG167	15	kV-500	520	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG168	#2	OH	1200	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG169	15	kV-500	750	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG170	15	kV-#2	350	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG171	15	kV-#2	700	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG172	15	kV-#2	700	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG173	15	kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG174	15	kV-#2	350	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG175	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG176	15	kV-#2	14000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG177	15	kV-#2	1300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG178	15	kV-#2	570	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG179	15	kV-#2	700	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG18	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG180	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG181	15	kV-4/0	1900	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG182	15	kV-4/0	2540	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG183	15	kV-4/0	6190	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG184	15	kV-#2	950	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG185	15	kV-#2	660	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG186	15	kV-4/0	930	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG187	15	kV-#2	280	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG188	15	kV-#2	650	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG189	15	kV-#2	1150	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG19	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG190	15	kV-#2	1480	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG191	15	kV-#2	500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG192	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG193	15	kV-#2	2950	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG194	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG195	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG196	15	kV-#2	1000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG197	15	kV-#2	51	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG198	15	kV-#2	1000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG199	15	kV-4/0	1950	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG2	15	kV-1100	2790	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG20	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG200	15	kV-#2	1370	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG201	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG202	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG203	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG204	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG205	15	kV-1100	240	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG206	15	kV-#2	250	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG207	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG208	15	kV-#2	3970	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG209	15	kV-#2	470	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG21	15	kV-#2	1350	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG210	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG211	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG212	15	kV-750	100	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG213	15	kV-#2	380	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG215	15	kV-4/0	820	0.1059	0.0463	(+) 0.01517	20.0
				0.3156	0.0950	(0)	
UG216	15	kV-4/0	280	0.1059	0.0463	(+) 0.01517	20.0
				0.3156	0.0950	(0)	
UG218	15	kV-4/0	400	0.1059	0.0463	(+) 0.01517	20.0
				0.3156	0.0950	(0)	
UG219	15	kV-#2	470	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG22	15	kV-#2	1800	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG220	4/0	OH	10	0.0820	0.1244	(+) 20.0	20.0
				0.1588	0.3557	(0)	
UG221	15	kV-1100	1470	0.0223	0.0388	(+) 0.02782	20.0
				0.1117	0.0300	(0)	
UG223	15	kV-1100	540	0.0223	0.0388	(+) 0.02782	20.0
				0.1117	0.0300	(0)	
UG224	2	15 kV-500	125	0.0230	0.0220	(+) 0.00817	20.0
				0.0730	0.0185	(0)	
UG225	2	15 kV-500	125	0.0230	0.0220	(+) 0.00817	20.0
				0.0730	0.0185	(0)	
UG226	2	15 kV-500	125	0.0230	0.0220	(+) 0.00817	20.0
				0.0730	0.0185	(0)	
UG227	15	kV-#2	380	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG228	15	kV-#2	100	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG229	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG23	15	kV-#2	800	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG230	15	kV-1100	810	0.0223	0.0388	(+) 0.02782	20.0
				0.1117	0.0300	(0)	
UG231	15	kV-1100	160	0.0223	0.0388	(+) 0.02782	20.0
				0.1117	0.0300	(0)	
UG232	15	kV-1100	400	0.0223	0.0388	(+) 0.02782	20.0
				0.1117	0.0300	(0)	
UG233	15	kV-#2	800	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG234	15	kV-#2	670	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG235	15	kV-#2	600	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG237	15	kV-#2	1360	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG238	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG239	15 kV-#2	1580	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG24	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG241	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG242	15 kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG243	15 kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG244	15 kV-#2	1600	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG245	15 kV-#2	960	0.3441 0.6558 0	0.0570 0.2200 0.0000	(+) (0) (+)	0.00841 20.0 25.0
UG247	15 kV-#2	540	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG248	15 kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG249	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG25	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG250	15 kV-#2	6140	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG251	15 kV-500	165	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG252	15 kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG254	15 kV-#2	50	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG255	15 kV-#2	1350	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG256	15 kV-750	120	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG257	15 kV-#2	1000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG258	15 kV-#2	540	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG26	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG260	15 kV-#2	730	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG261	15 kV-#2	650	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG262	15 kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG263	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG264	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG265	15 kV-500	1000	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG266	15 kV-#2	1300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG267	15 kV-4/0	1600	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG268	AL-1000	125	0.0202 0.0725	0.0263 0.0530	(+) (0)	20.0
UG269	AL-1000	125	0.0202 0.0725	0.0263 0.0530	(+) (0)	20.0
UG27	15 kV-#2	630	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG270	15 kV-4/0	320	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG271	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG272	#2 OH	3570	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG273	15 kV-4/0	250	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG274	15 kV-4/0	460	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG275	15 kV-#2	1000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG276	15 kV-4/0	1190	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG277	#2 OH	1580	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG278	#2 OH	840	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG279	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG28	15 kV-#2	640	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG280	#2 OH	1500	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG281	15 kV-#2	960	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG282	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG283	15	kV-#2	2020	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG284	15	kV-#2	1500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG285	15	kV-#2	1650	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG286	15	kV-#2	700	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG287	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG288	15	kV-#2	1270	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG289	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG29	15	kV-#2	620	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG290	15	kV-#2	410	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG292	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG293	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG294	15	kV-#2	630	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG295	15	kV-#2	1370	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG296	15	kV-750	90	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG298	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG299	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG3	15	kV-#2	340	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG30	15	kV-#2	570	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG300	15	kV-750	100	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG301	15	kV-1100	310	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG302	15	kV-1100	140	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG303	15	kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG306	15	kV-1000	420	0.0223 0.1470	0.0370 0.0400	(+) (0)	0.02600 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG307	15	kV-1000	300	0.0223 0.1470	0.0370 0.0400	(+) (0)	0.02600 20.0
UG308	15	kV-1000	560	0.0223 0.1470	0.0370 0.0400	(+) (0)	0.02600 20.0
UG309	15	kV-4/0	500	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG31	15	kV-500	1570	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG310	15	kV-#2	330	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG311	15	kV-#2	150	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG312	15	kV-#2	680	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG313	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG314	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG315	15	kV-#2	850	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG317	15	kV-1000	450	0.0223 0.1470	0.0370 0.0400	(+) (0)	0.02600 20.0
UG318	15	kV-1000	840	0.0223 0.1470	0.0370 0.0400	(+) (0)	0.02600 20.0
UG319	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG32	15	kV-4/0	1280	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG320	15	kV-500	600	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG321	15	kV-500	600	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG322	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG324	15	kV-4/0	570	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG325	15	kV-4/0	850	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG326	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG327	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG328	15	kV-4/0	400	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG329	15	kV-4/0	300	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG33	15	kV-4/0	500	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG331	15	kV-4/0	920	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG332	15	kV-4/0	1100	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG333	15	kV-500	1220	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG334	15	kV-1000	190	0.0223 0.1470	0.0370 0.0400	(+) (0)	0.02600 20.0
UG335	15	kV-1100	640	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG336	15	kV-1100	490	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG337	15	kV-1100	380	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG338	15	kV-#2	450	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG339	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG34	15	kV-#2	320	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG340	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG341	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG342	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG343	15	kV-1100	100	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG344	15	kV-#2	630	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG345	15	kV-4/0	560	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG346	15	kV-#2	500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG347	15	kV-4/0	880	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG348	15	kV-4/0	760	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG349	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG35	15	kV-#2	900	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG351	15	kV-4/0	1220	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG352	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG354	15	kV-#2	560	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG358	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG359	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG36	15	kV-4/0	3820	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG360	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG361	15	kV-#2	700	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG362	15	kV-#2	250	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG363	15	kV-#2	960	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG364	15	kV-#2	900	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG365	15	kV-#2	1000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG366	15	kV-#2	810	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG367	15	kV-#2	610	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG368	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG369	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG37	15	kV-4/0	4430	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG370	15	kV-#2	510	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG371	15	kV-#2	1100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG372	15	kV-#2	1340	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG374	15	kV-#2	180	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG375	15	kV-1100	650	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG376	15	kV-1100	870	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG377	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG378	15 kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG379	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG38	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG380	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG381	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG382	#2 OH	770	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG383	#2 OH	570	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG384	15 kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG385	15 kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG386	15 kV-4/0	1000	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG387	15 kV-4/0	1500	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG388	15 kV-1000	90	0.0223 0.1470	0.0370 0.0400	(+) (0)	0.02600 20.0
UG389	15 kV-#2	180	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG39	15 kV-4/0	300	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG390	15 kV-4/0	1000	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG391	15 kV-4/0	1190	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG392	15 kV-4/0	610	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG393	15 kV-4/0	300	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG394	15 kV-4/0	860	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG395	15 kV-#2	500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG398	15 kV-4/0	700	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG399	15 kV-#2	1500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG4	15 kV-500	10	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG40	15	kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG400	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG401	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG402	15	kV-#2	900	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG403	15	kV-4/0	740	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG404	15	kV-#2	1010	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG405	15	kV-4/0	660	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG406	15	kV-4/0	740	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG407	15	kV-#2	500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG409	15	kV-4/0	580	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG41	15	kV-#2	2000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG410	15	kV-4/0	940	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG411	15	kV-#2	2300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG412	15	kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG413	15	kV-4/0	930	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG414	15	kV-4/0	930	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG415	15	kV-4/0	870	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG417	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG418	15	kV-#2	1500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG419	15	kV-#2	700	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG42	15	kV-#2	2240	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG420	15	kV-4/0	370	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG421	15	kV-#2	480	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG422	15	kV-4/0	770	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG423	15	kV-#2	50	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG424	15	kV-4/0	700	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG425	15	kV-#2	2300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG426	15	kV-#2	1500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG427	15	kV-#2	1600	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG428	15	kV-#2	1000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG429	15	kV-4/0	1400	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG43	15	kV-1100	360	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG430	15	kV-4/0	1100	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG431	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG432	15	kV-750	1400	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG433	15	kV-1100	760	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG434	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG435	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG436	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG437	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG438	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG439	15	kV-4/0	900	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG44	15	kV-4/0	110	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG440	15	kV-#2	3600	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG441	15	kV-4/0	1900	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG442	15	kV-#2	2210	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG443	15	kV-#2	2260	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG444	15	kV-#2	410	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG445	15	kV-#2	380	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG446	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG447	15	kV-#2	1960	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG448	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG449	15	kV-#2	2400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG45	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG450	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG451	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG452	15	kV-#2	530	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG453	15	kV-#2	2000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG454	15	kV-#2	1400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG455	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG456	15	kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG457	15	kV-#2	2850	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG458	15	kV-#2	1000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG459	15	kV-#2	560	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG46	15	kV-#2	150	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG460	15	kV-#2	2150	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG461	15	kV-#2	1700	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG462	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG463	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG464	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG465	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG466	15	kV-#2	2230	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG467	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG468	15	kV-#2	1800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG469	15	kV-#2	1660	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG47	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG470	15	kV-#2	500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG471	15	kV-#2	1000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG472	15	kV-#2	720	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG473	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG474	15	kV-#2	3720	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG475	15	kV-#2	2230	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG476	15	kV-#2	4200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG477	15	kV-4/0	1720	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG478	15	kV-4/0	2100	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG479	15	kV-4/0	1310	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG48	15	kV-#2	1900	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG480	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG481	15	kV-#2	1100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG482	15	kV-4/0	730	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG483	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG484	15	kV-4/0	1110	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG485	15 kV-4/0	1340	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG486	15 kV-#2	1610	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG487	15 kV-#2	1000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG488	15 kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG489	15 kV-#2	1000	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG49	15 kV-1100	160	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG490	15 kV-#2	900	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG491	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG492	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG493	#2 OH	2260	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG494	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG495	15 kV-#2	2100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG496	#2 OH	1900	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG497	#2 OH	1290	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG498	#2 OH	1200	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG499	15 kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG5	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG50	15 kV-1100	480	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG500	#2 OH	1140	0.2618 0.3953	0.1378 0.4524	(+) (0)	20.0
UG501	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG502	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG503	15 kV-4/0	960	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG504	15 kV-#2	1700	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG505	#2 OH	2360	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
UG506	#2 OH	3570	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
UG507	#2 OH	1940	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
UG508	#2 OH	1750	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
UG509	15 kV-#2	10	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG51	15 kV-#2	380	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG510	15 kV-#2	10	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG511	15 kV-#2	10	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG512	15 kV-4/0	3380	0.1059	0.0463	(+)	0.01517 20.0
			0.3156	0.0950	(0)	
UG513	15 kV-#2	2300	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG514	#2 OH	2350	0.2618	0.1378	(+)	20.0
			0.3953	0.4524	(0)	
UG515	15 kV-#2	1900	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG516	15 kV-#2	10	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG517	15 kV-#2	1040	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG518	15 kV-#2	690	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG519	15 kV-#2	1800	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG52	15 kV-#2	100	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG520	15 kV-#2	10	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG521	15 kV-4/0	1090	0.1059	0.0463	(+)	0.01517 20.0
			0.3156	0.0950	(0)	
UG522	15 kV-4/0	450	0.1059	0.0463	(+)	0.01517 20.0
			0.3156	0.0950	(0)	
UG523	15 kV-#2	1140	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG526	15 kV-#2	2740	0.3441	0.0570	(+)	0.00841 20.0
			0.6558	0.2200	(0)	
UG527	15 kV-4/0	570	0.1059	0.0463	(+)	0.01517 20.0
			0.3156	0.0950	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG528	15	kV-#2	1860	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG529	15	kV-#2	1290	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG53	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG530	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG531	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG532	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG533	15	kV-#2	1100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG535	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG536	15	kV-4/0	690	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG537	15	kV-4/0	740	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG538	15	kV-#2	2400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG54	15	kV-#2	510	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG540	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG541	15	kV-4/0	880	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG542	15	kV-4/0	600	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG543	15	kV-#2	1850	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG544	15	kV-#2	1790	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG546	15	kV-#2	600	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG547	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG548	15	kV-4/0	420	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG549	15	kV-4/0	1160	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG55	15	kV-#2	350	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG550	15	kV-#2	1260	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG553	15	kV-#2	830	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG554	15	kV-#2	1270	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG555	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG556	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG557	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG558	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG559	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG56	15	kV-500	170	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG560	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG561	15	kV-#2	1290	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG562	15	kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG563	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG564	15	kV-#2	2110	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG565	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG566	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG567	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG568	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG569	15	kV-#2	850	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG57	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG570	15	kV-#2	615	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG571	15	kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG572	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG573	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG574	15 kV-#2	2100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG575	15 kV-#2	1670	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG576	15 kV-#2	2970	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG577	15 kV-750	120	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG578	15 kV-750	410	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG579	15 kV-#2	250	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG58	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG580	15 kV-4/0	490	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG581	15 kV-4/0	490	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG583	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG584	15 kV-4/0	10	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG585	15 kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG586	15 kV-500	850	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG588	15 kV-500	510	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG589	15 kV-750	340	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG59	15 kV-#2	440	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG590	15 kV-750	470	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG591	15 kV-750	1020	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG592	15 kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG593	15 kV-#2	700	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG594	15 kV-4/0	700	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG595	15 kV-750	690	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG596	15 kV-750	530	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG597	15	kV-1100	1000	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG598	15	kV-4/0	1000	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG599	15	kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG6	15	kV-500	1190	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG60	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG600	15	kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG601	15	kV-4/0	500	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG602	15	kV-4/0	700	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG603	15	kV-4/0	425	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG604	15	kV-#2	1260	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG606	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG607	15	kV-4/0	560	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG609	15	kV-4/0	750	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG61	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG612	15	kV-#2	1640	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG613	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG614	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG615	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG616	15	kV-500	560	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG618	15	kV-500	960	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG619	15	kV-500	640	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG62	15	kV-#2	1300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG620	15	kV-500	900	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG621	15	kV-4/0	850	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG622	15	kV-4/0	810	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG623	15	kV-4/0	650	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG624	15	kV-4/0	340	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG625	15	kV-4/0	1070	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG626	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG627	15	kV-4/0	670	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG628	15	kV-4/0	1220	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG63	15	kV-#2	1080	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG630	15	kV-4/0	1230	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG631	15	kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG632	15	kV-4/0	200	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG633	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG634	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG635	15	kV-#2	500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG636	15	kV-4/0	920	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG637	15	kV-#2	500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG638	15	kV-4/0	1160	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG64	15	kV-#2	1200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG640	15	kV-#2	880	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG641	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG642	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG643	15	kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG644	15	kV-500	170	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG645	15	kV-500	1370	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG646	15	kV-500	670	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG647	15	kV-#2	400	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG648	15	kV-#2	1100	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG649	15	kV-#2	440	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG65	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG650	15	kV-#2	1100	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG651	15	kV-#2	510	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG652	15	kV-#2	660	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG653	15	kV-#2	610	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG654	15	kV-#2	500	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG655	15	kV-#2	1500	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG656	15	kV-#2	720	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG657	15	kV-#2	1000	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG658	15	kV-#2	600	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG659	15	kV-#2	660	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG66	15	kV-#2	520	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG660	15	kV-#2	1000	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG661	15	kV-#2	1220	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG662	15	kV-1100	970	0.0223	0.0388	(+) 0.02782	20.0
				0.1117	0.0300	(0)	
UG663	15	kV-1100	450	0.0223	0.0388	(+) 0.02782	20.0
				0.1117	0.0300	(0)	
UG664	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG665	15	kV-1100	1000	0.0223 0.1117	0.0388 0.0300	(+) (0)	0.02782 20.0
UG666	15	kV-#2	1500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG667	15	kV-4/0	470	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG668	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG669	15	kV-4/0	450	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG67	15	kV-#2	520	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG670	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG671	15	kV-4/0	1070	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG672	15	kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG674	15	kV-4/0	700	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG675	15	kV-#2	300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG676	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG677	15	kV-4/0	500	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG678	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG68	15	kV-#2	950	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG680	15	kV-4/0	1610	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG681	15	kV-#2	1300	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG682	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG683	15	kV-4/0	930	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG684	15	kV-4/0	320	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG685	15	kV-750	370	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG686	15	kV-750	2030	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG687	15	kV-#2	720	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG688	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
				0	0.0000	(+)	25.0
				0	0.0000	(0)	
UG69	15	kV-#2	100	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG690	15	kV-#2	600	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG691	15	kV-#2	1100	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG692	15	kV-750	580	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	
UG693	15	kV-#2	200	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG695	15	kV-4/0	1000	0.1059	0.0463	(+) 0.01517	20.0
				0.3156	0.0950	(0)	
UG696	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG697	15	kV-750	540	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	
UG698	15	kV-750	1310	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	
UG699	15	kV-750	1750	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	
UG7	15	kV-#2	410	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG700	15	kV-#2	300	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG701	15	kV-500	400	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG702	15	kV-500	270	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG703	15	kV-#2	640	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG704	15	kV-#2	400	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG705	15	kV-#2	1200	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG706	15	kV-750	1450	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	
UG707	15	kV-4/0	1000	0.1059	0.0463	(+) 0.01517	20.0
				0.3156	0.0950	(0)	
UG708	15	kV-#2	570	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG709	15	kV-750	1670	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG71	15	kV-500	170	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG710	15	kV-750	490	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	
UG711	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG712	15	kV-#2	1830	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG714	15	kV-750	1220	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	
UG715	15	kV-750	560	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	
UG716	15	kV-750	310	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	
UG717	15	kV-750	760	0.0295	0.0409	(+) 0.02541	20.0
				0.1902	0.0600	(0)	
UG718	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG719	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG72	15	kV-#2	100	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG720	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG721	15	kV-#2	400	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG722	15	kV-500	950	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG723	15	kV-500	1350	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG724	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG725	15	kV-#2	1200	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG726	15	kV-#2	1000	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG727	15	kV-500	510	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG728	15	kV-500	910	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG729	15	kV-#2	100	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG73	15	kV-#2	1280	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG730	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG731	15	kV-4/0	1350	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG732	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG733	15	kV-4/0	1090	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG734	15	kV-#2	900	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG736	15	kV-4/0	900	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG737	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG738	15	kV-4/0	1010	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG739	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG74	15	kV-#2	760	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG740	15	kV-4/0	900	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG741	15	kV-4/0	1020	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG742	15	kV-4/0	470	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG743	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG744	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG745	15	kV-4/0	500	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG746	15	kV-4/0	510	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG747	15	kV-#2	580	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG748	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG749	15	kV-4/0	650	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG75	15	kV-#2	250	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG750	15	kV-4/0	1350	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG752	15	kV-#2	1380	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG753	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG754	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG755	15	kV-500	830	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG756	15	kV-500	1340	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG757	15	kV-#2	1500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG758	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG759	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG76	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG760	15	kV-500	1200	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG761	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG762	15	kV-#2	600	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG763	15	kV-500	580	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG764	15	kV-500	1800	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG765	15	kV-500	470	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG766	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG767	15	kV-500	1370	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG768	15	kV-#2	1580	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG769	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG77	15	kV-#2	1020	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG770	15	kV-#2	420	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG771	15	kV-500	10	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG772	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG773	15	kV-500	550	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG775	15	kV-#2	200	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG776	15	kV-#2	900	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG777	15	kV-500	1000	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG779	15	kV-#2	1230	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG78	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG780	15	kV-#2	1230	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG781	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG782	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG783	15	kV-750	1340	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG784	15	kV-750	840	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG785	15	kV-4/0	740	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG787	15	kV-4/0	1780	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG788	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG789	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG79	15	kV-#2	1500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG790	15	kV-4/0	1570	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG791	15	kV-4/0	920	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG792	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG793	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG794	15	kV-#2	800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG795	15	kV-#2	1740	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG796	15	kV-#2	911	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG797	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG798	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG799	15	kV-4/0	720	0.1059	0.0463	(+) 0.01517	20.0
				0.3156	0.0950	(0)	
UG8	15	kV-500	500	0.0461	0.0440	(+) 0.01634	20.0
				0.1461	0.0370	(0)	
UG80	15	kV-4/0	1570	0.1059	0.0463	(+) 0.01517	20.0
				0.3156	0.0950	(0)	
UG800	15	kV-4/0	1250	0.1059	0.0463	(+) 0.01517	20.0
				0.3156	0.0950	(0)	
UG801	15	kV-#2	500	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG802	15	kV-#2	1120	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG803	15	kV-#2	1450	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG804	15	kV-#2	1530	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG805	15	kV-#2	1480	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG806	15	kV-#2	730	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG807	15	kV-#2	570	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG808	15	kV-#2	640	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG809	15	kV-#2	1540	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG81	15	kV-#2	100	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG810	15	kV-#2	700	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG811	15	kV-#2	250	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG812	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG813	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG814	15	kV-#2	400	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG815	15	kV-#2	600	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG816	15	kV-#2	10	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG817	15	kV-#2	1000	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	
UG818	15	kV-#2	410	0.3441	0.0570	(+) 0.00841	20.0
				0.6558	0.2200	(0)	

 Feeders/Cables Data

Resistance Displayed in Editor is at 25.0 °C.

Branch Name	#C	Device Type	Length Feet	R Ohms/K	X Ohms/K	1/2 Cap mMhos/K	Temp °C
UG819	15	kV-#2	10	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG82	15	kV-#2	340	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG820	15	kV-4/0	2230	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG821	15	kV-#2	500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG83	15	kV-#2	640	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG84	15	kV-4/0	660	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG85	15	kV-#2	290	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG86	15	kV-4/0	840	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG87	15	kV-#2	400	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG88	15	kV-4/0	800	0.1059 0.3156	0.0463 0.0950	(+) (0)	0.01517 20.0
UG89	15	kV-#2	1080	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG9	15	kV-500	1620	0.0461 0.1461	0.0440 0.0370	(+) (0)	0.01634 20.0
UG90	15	kV-#2	1800	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG91	15	kV-#2	1500	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG92	15	kV-#2	950	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG93	15	kV-750	160	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG94	15	kV-#2	100	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG95	15	kV-#2	225	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG97	15	kV-750	150	0.0295 0.1902	0.0409 0.0600	(+) (0)	0.02541 20.0
UG98	15	kV-#2	1110	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0
UG99	15	kV-#2	650	0.3441 0.6558	0.0570 0.2200	(+) (0)	0.00841 20.0

Control Devices Data

Branch Name	Cd Device Type	R(Ohms)	X(Ohms)
S8	SW 1000	0.00010	0.00007
F1	FU FUSE	0.00010	0.00080
F10	FU FUSE	0.00010	0.00080
F100	FU FUSE	0.00010	0.00080
F101	FU FUSE	0.00010	0.00080
F102	FU FUSE	0.00010	0.00080
F103	FU FUSE	0.00010	0.00080
F104	FU FUSE	0.00010	0.00080
F105	FU FUSE	0.00010	0.00080
F106	FU FUSE	0.00010	0.00080
F107	FU FUSE	0.00010	0.00080
F108	FU FUSE	0.00010	0.00080
F109	FU FUSE	0.00010	0.00080
F11	FU FUSE	0.00010	0.00080
F110	FU FUSE	0.00010	0.00080
F111	FU FUSE	0.00010	0.00080
F112	FU FUSE	0.00010	0.00080
F113	FU FUSE	0.00010	0.00080
F114	FU FUSE	0.00010	0.00080
F115	FU FUSE	0.00010	0.00080
F116	FU FUSE	0.00010	0.00080
F117	FU FUSE	0.00010	0.00080
F118	FU FUSE	0.00010	0.00080
F119	FU FUSE	0.00010	0.00080
F120	FU FUSE	0.00010	0.00080
F121	FU FUSE	0.00010	0.00080
F122	FU FUSE	0.00010	0.00080
F123	FU FUSE	0.00010	0.00080
F13	FU FUSE	0.00010	0.00080
F14	FU FUSE	0.00010	0.00080
F15	FU FUSE	0.00010	0.00080
F16	FU FUSE	0.00010	0.00080
F17	FU FUSE	0.00010	0.00080
F18	FU FUSE	0.00010	0.00080
F19	FU FUSE	0.00010	0.00080
F2	FU FUSE	0.00010	0.00080
F20	FU FUSE	0.00010	0.00080
F21	FU FUSE	0.00010	0.00080
F22	FU FUSE	0.00010	0.00080
F23	FU FUSE	0.00010	0.00080
F24	FU FUSE	0.00010	0.00080
F25	FU FUSE	0.00010	0.00080
F26	FU FUSE	0.00010	0.00080
F27	FU FUSE	0.00010	0.00080
F28	FU FUSE	0.00010	0.00080
F29	FU FUSE	0.00010	0.00080
F3	FU FUSE	0.00010	0.00080
F30	FU FUSE	0.00010	0.00080

Control Devices Data

Branch Name	Cd Device Type	R(Ohms)	X(Ohms)
F31	FU FUSE	0.00010	0.00080
F32	FU FUSE	0.00010	0.00080
F33	FU FUSE	0.00010	0.00080
F34	FU FUSE	0.00010	0.00080
F35	FU FUSE	0.00010	0.00080
F36	FU FUSE	0.00010	0.00080
F37	FU FUSE	0.00010	0.00080
F38	FU FUSE	0.00010	0.00080
F39	FU FUSE	0.00010	0.00080
F4	FU FUSE	0.00010	0.00080
F40	FU FUSE	0.00010	0.00080
F41	FU FUSE	0.00010	0.00080
F42	FU FUSE	0.00010	0.00080
F43	FU FUSE	0.00010	0.00080
F44	FU FUSE	0.00010	0.00080
F45	FU FUSE	0.00010	0.00080
F46	FU FUSE	0.00010	0.00080
F47	FU FUSE	0.00010	0.00080
F48	FU FUSE	0.00010	0.00080
F49	FU FUSE	0.00010	0.00080
F5	FU FUSE	0.00010	0.00080
F50	FU FUSE	0.00010	0.00080
F51	FU FUSE	0.00010	0.00080
F52	FU FUSE	0.00010	0.00080
F53	FU FUSE	0.00010	0.00080
F54	FU FUSE	0.00010	0.00080
F55	FU FUSE	0.00010	0.00080
F56	FU FUSE	0.00010	0.00080
F57	FU FUSE	0.00010	0.00080
F58	FU FUSE	0.00010	0.00080
F59	FU FUSE	0.00010	0.00080
F6	FU FUSE	0.00010	0.00080
F60	FU FUSE	0.00010	0.00080
F61	FU FUSE	0.00010	0.00080
F62	FU FUSE	0.00010	0.00080
F63	FU FUSE	0.00010	0.00080
F64	FU FUSE	0.00010	0.00080
F65	FU FUSE	0.00010	0.00080
F66	FU FUSE	0.00010	0.00080
F67	FU FUSE	0.00010	0.00080
F68	FU FUSE	0.00010	0.00080
F69	FU FUSE	0.00010	0.00080
F7	FU FUSE	0.00010	0.00080
F70	FU FUSE	0.00010	0.00080
F71	FU FUSE	0.00010	0.00080
F72	FU FUSE	0.00010	0.00080
F73	FU FUSE	0.00010	0.00080
F74	FU FUSE	0.00010	0.00080

Control Devices Data

Branch Name	Cd Device Type	R(Ohms)	X(Ohms)
F75	FU FUSE	0.00010	0.00080
F76	FU FUSE	0.00010	0.00080
F77	FU FUSE	0.00010	0.00080
F78	FU FUSE	0.00010	0.00080
F79	FU FUSE	0.00010	0.00080
F8	FU FUSE	0.00010	0.00080
F80	FU FUSE	0.00010	0.00080
F81	FU FUSE	0.00010	0.00080
F82	FU FUSE	0.00010	0.00080
F83	FU FUSE	0.00010	0.00080
F84	FU FUSE	0.00010	0.00080
F85	FU FUSE	0.00010	0.00080
F86	FU FUSE	0.00010	0.00080
F87	FU FUSE	0.00010	0.00080
F88	FU FUSE	0.00010	0.00080
F89	FU FUSE	0.00010	0.00080
F9	FU FUSE	0.00010	0.00080
F90	FU FUSE	0.00010	0.00080
F91	FU FUSE	0.00010	0.00080
F92	FU FUSE	0.00010	0.00080
F93	FU FUSE	0.00010	0.00080
F94	FU FUSE	0.00010	0.00080
F95	FU FUSE	0.00010	0.00080
F96	FU FUSE	0.00010	0.00080
F97	FU FUSE	0.00010	0.00080
F98	FU FUSE	0.00010	0.00080
F99	FU FUSE	0.00010	0.00080