

TO WINTERVILLE

1728

1729

1730

GREENVILLE UTILITIES
 Greenville, North Carolina

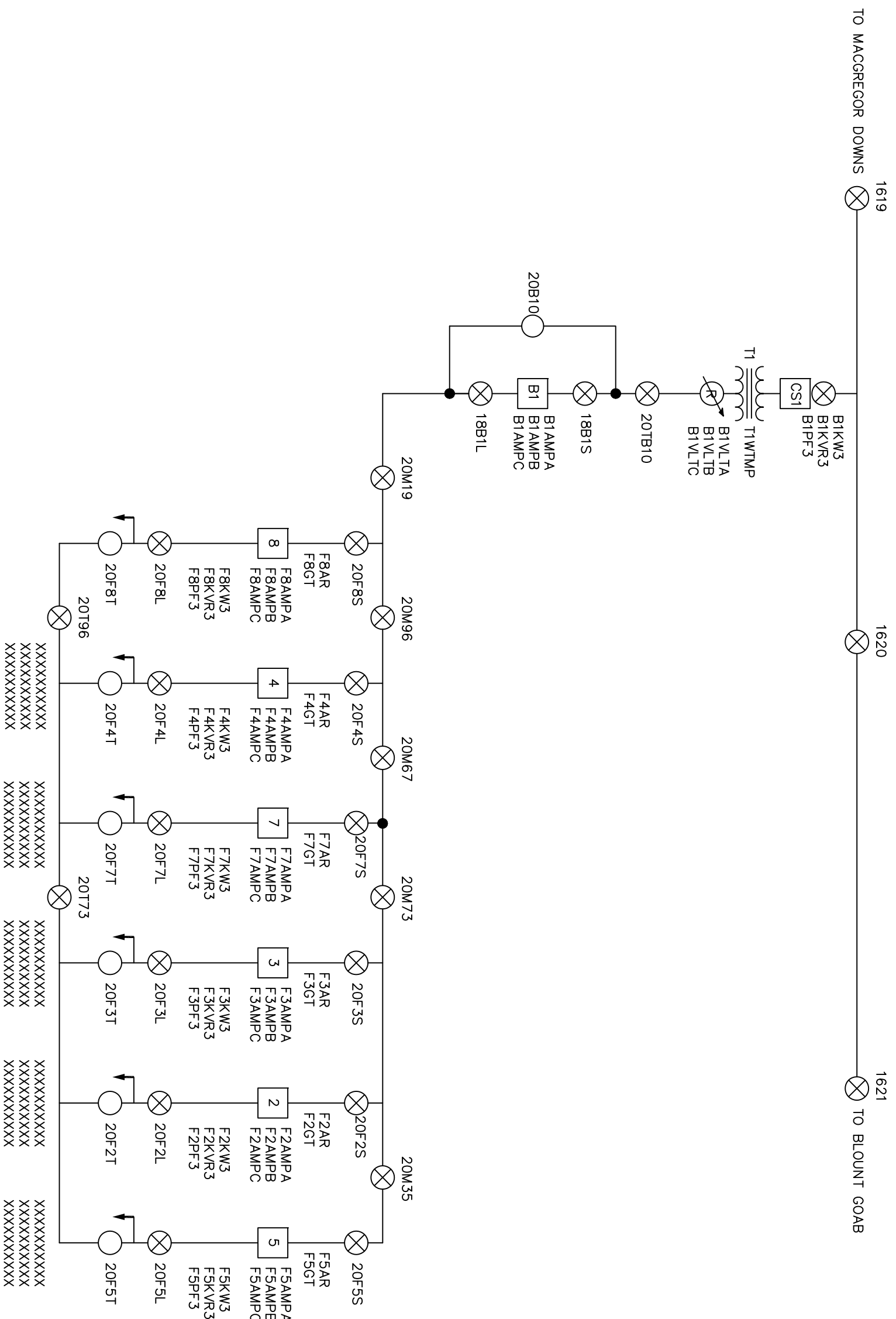
BELLS FORK SUBSTATION
 115 TO 15 KV
 SCADA MASTER

DWG. NO. _____
 DWG. NAME _____

DATE 06-16-11
 APRD. JTR

DWG. CLK _____
 COO. JTR

SCALE NONE



1619 TO MACGREGOR DOWNS

1620

1621 TO BLOUNT GOAB

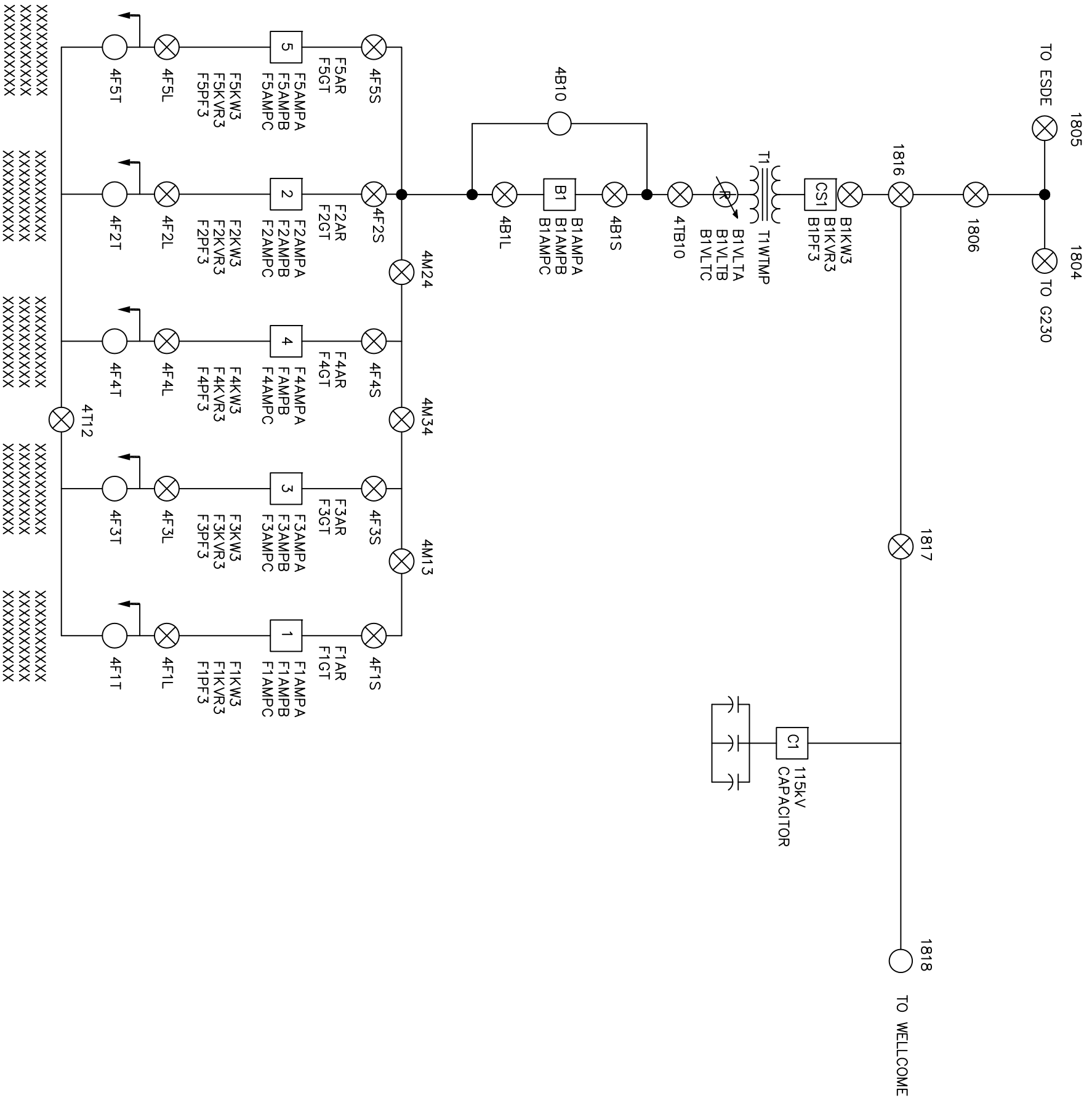
GREENVILLE UTILITIES
 Greenville, North Carolina

DICKINSON AVENUE SUBSTATION
 115 TO 15 KV
 SCADA MASTER

DMW, K.K. DATE: 06-17-11 DWG. NO.
 C.D., J.T.R. APPD. J.T.R.
 SCALE: NONE

Greenville
 Utilities

Dickinson-wfp.dwg



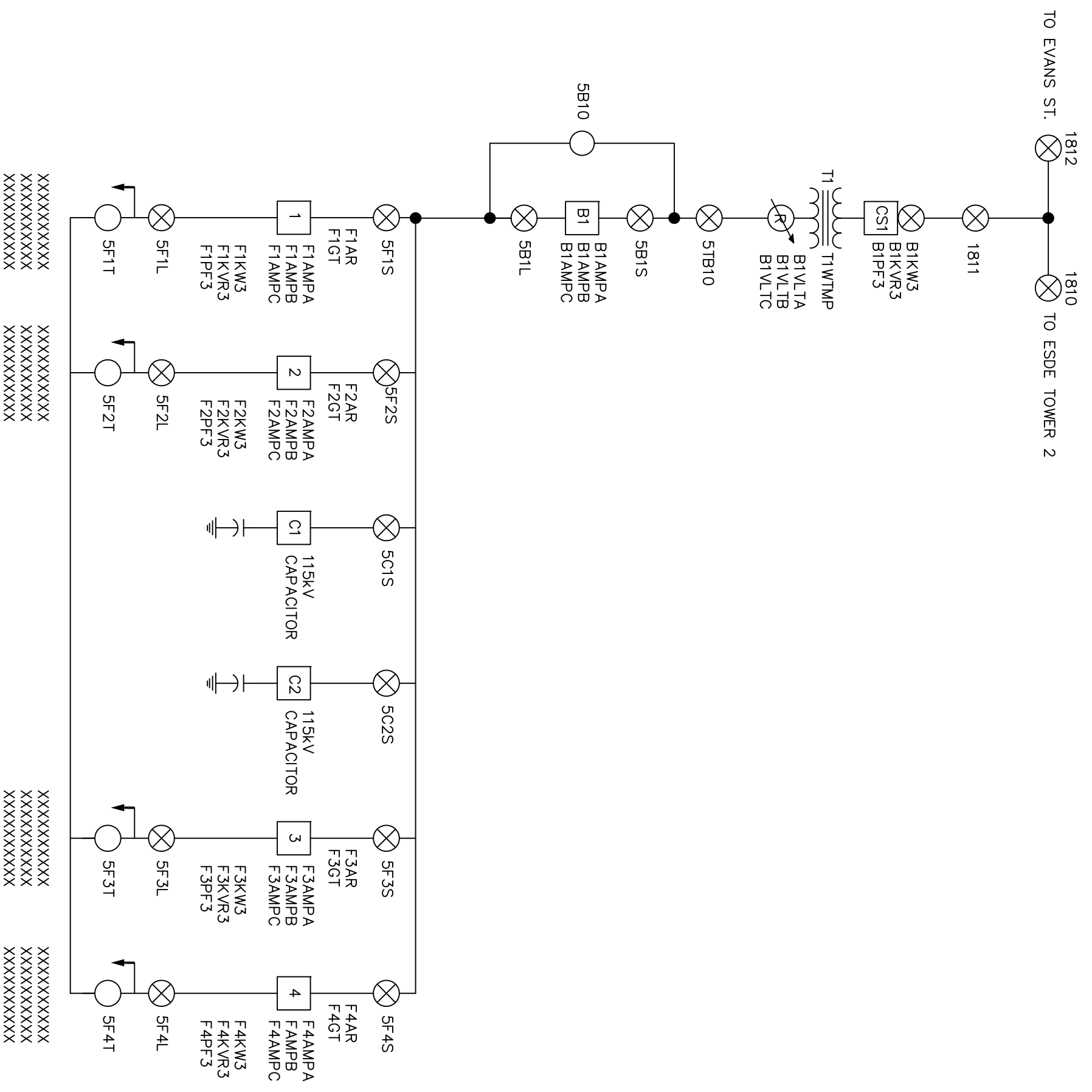
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GREENVILLE UTILITIES
Greenville, North Carolina

EASTERN BYPASS SUBSTATION
115 TO 15 KV
SCADA MASTER

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DWG. K.K	DATE 06-17-11	DWG. NO.								
COD. JTR	APPD. JTR									
SCALE: NONE										

Eastern Bypass.wfp.dwg



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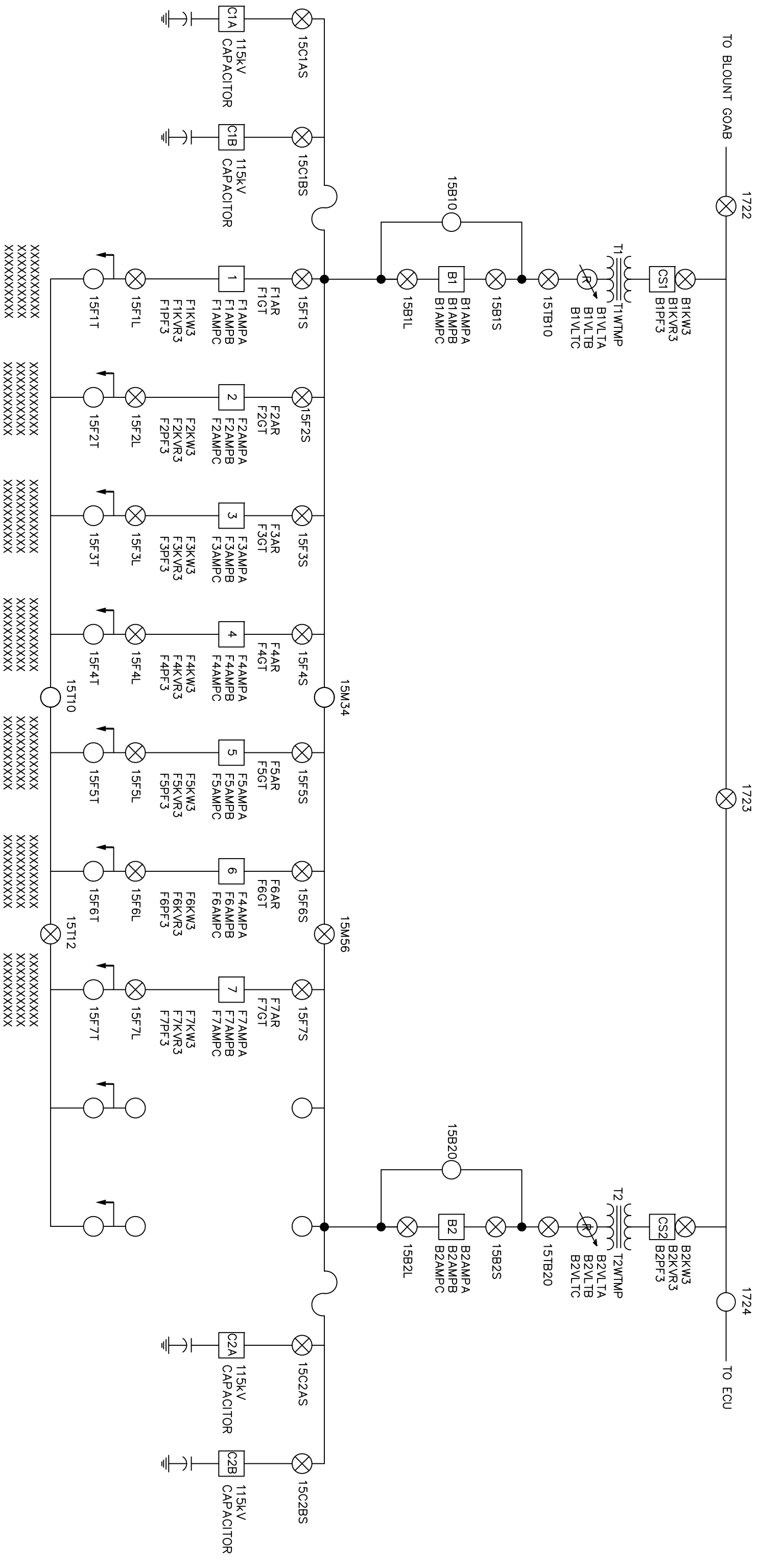
GREENVILLE UTILITIES
 Greenville, North Carolina

ECU SUBSTATION
 115 TO 15 KV
 SCADA MASTER

DWG. NO.	DATE 06-17-11	DWG. NO.
CDD. JTR	APRD. JTR	
SCALE: NONE		

Greenville Utilities

ECU_wfp.dwg



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GREENVILLE UTILITIES
 Greenville, North Carolina

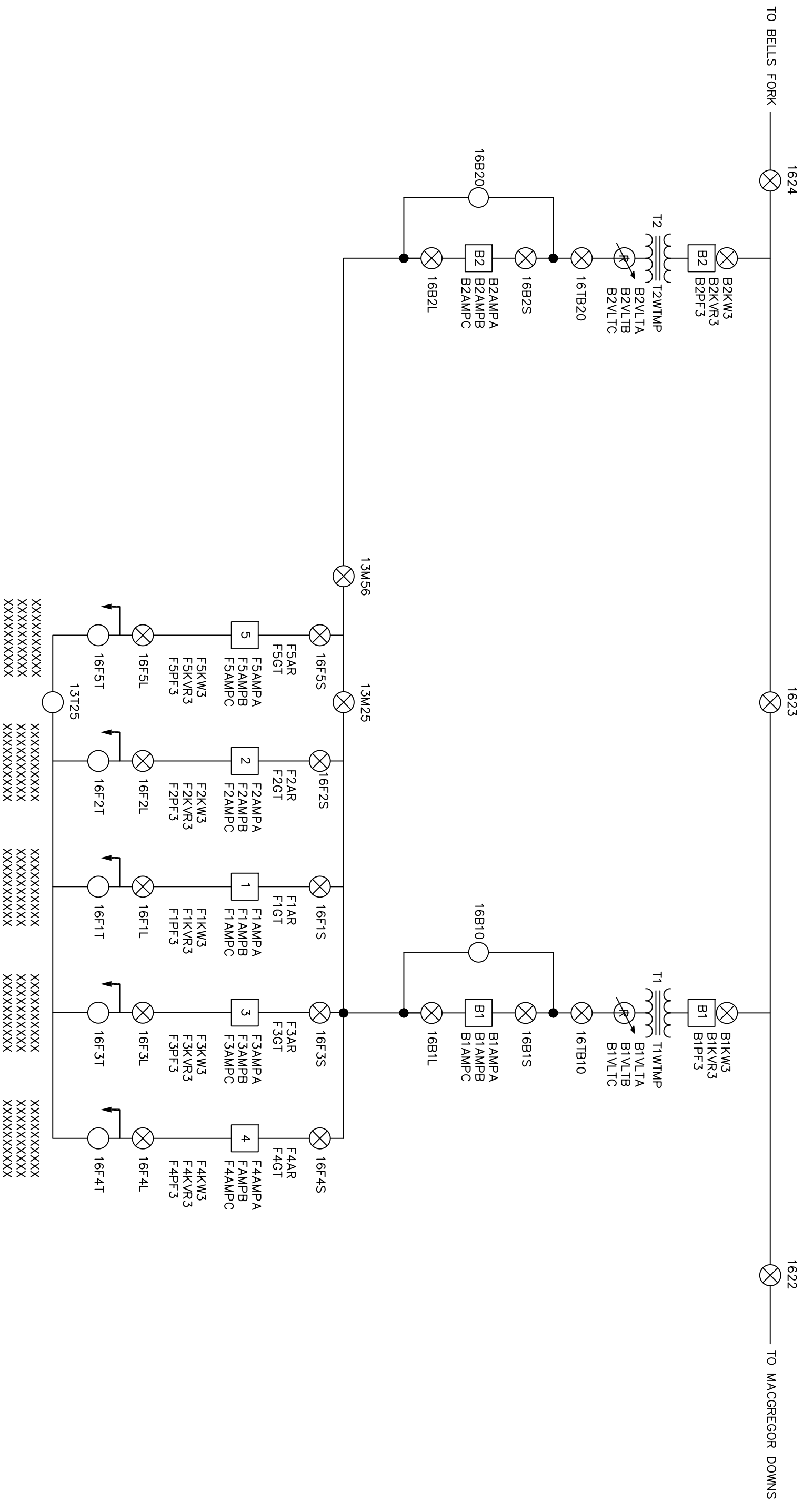
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 115 TO 15 KV
 SCADA MASTER



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 APRD. JTR

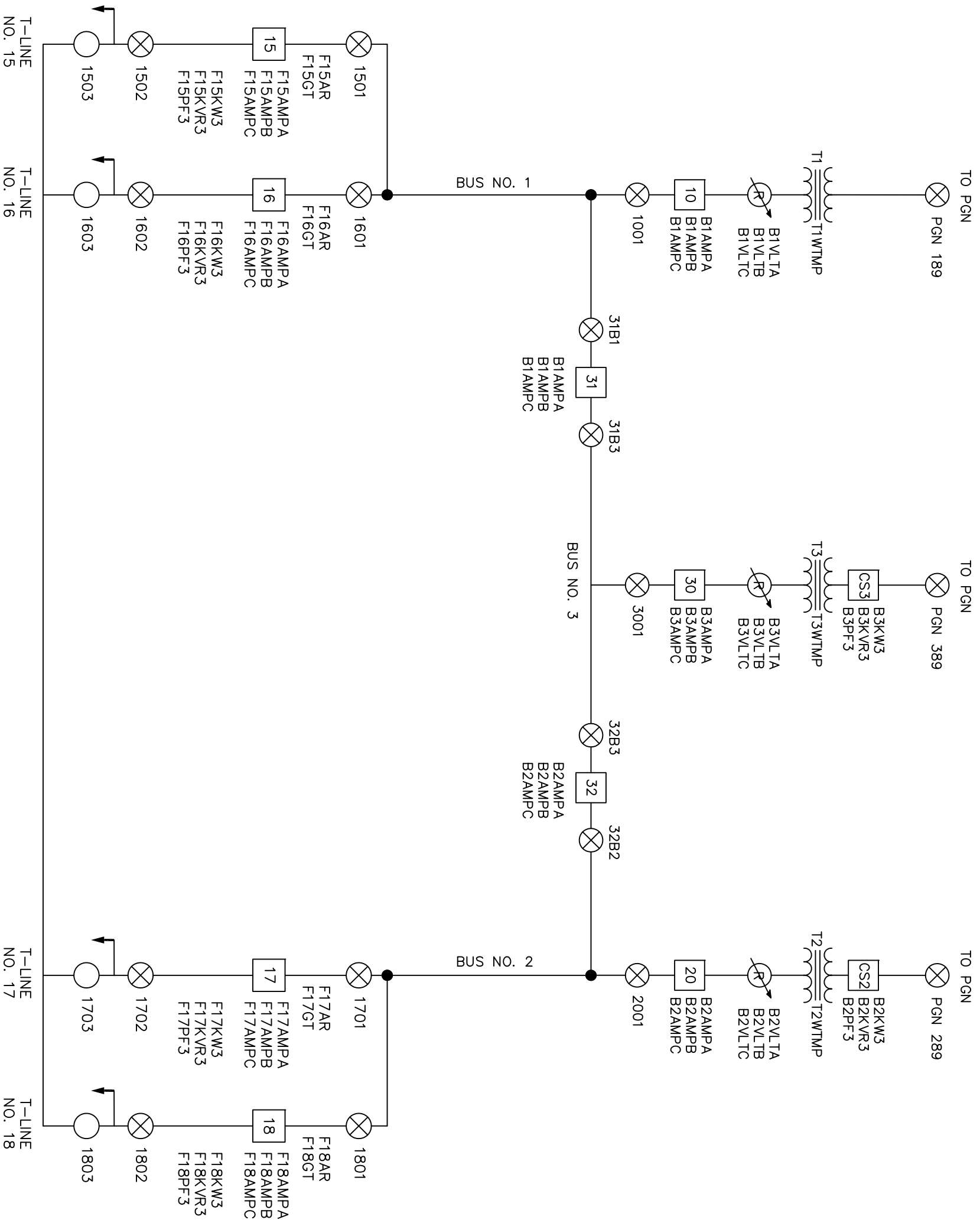
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DMK, KJK
 CDD, JTR
 SCALE: NONE



GREENVILLE UTILITIES
 Greenville, North Carolina
 FROG LEVEL SUBSTATION
 115 TO 15 KV
 SCADA MASTER

DNW, K.K.	DATE: 06-17-11	DWG. NO.
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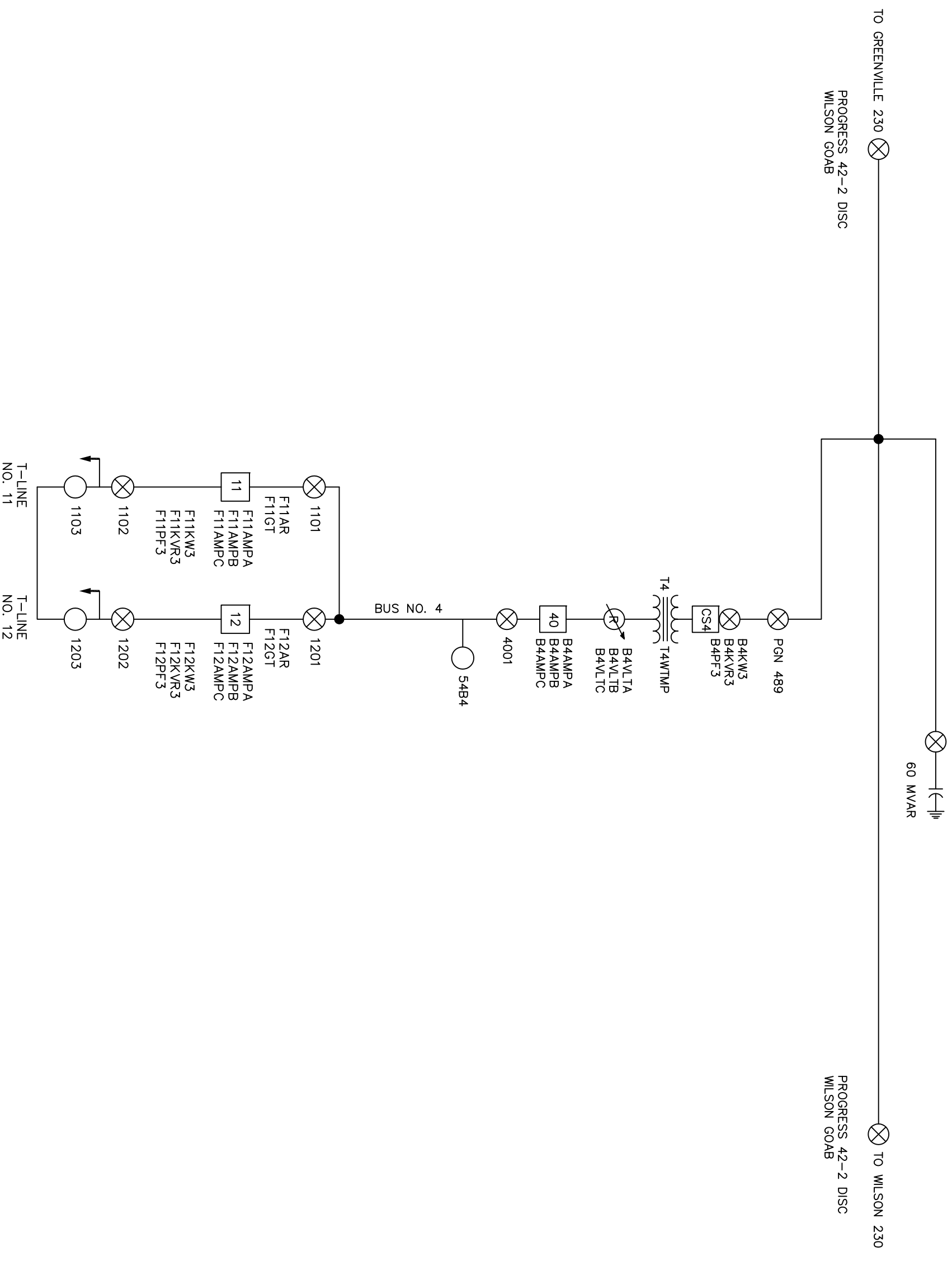


GREENVILLE UTILITIES
Greenville, North Carolina

G230 SUBSTATION
115 TO 15 KV
SCADA MASTER

DWN. K&K	DATE: 06-23-11
CRD. JMR	APRD. JMR
SCALE: NONE	DWG. NO.
	DWG. NAME

G230.wp-dwg



TO GREENVILLE 230
 PROGRESS 42-2 DISC
 WILSON GOAB

60 MVAR

TO WILSON 230
 PROGRESS 42-2 DISC
 WILSON GOAB

T-LINE NO. 11

T-LINE NO. 12

BUS NO. 4

54B4



GREENVILLE UTILITIES
 Greenville, North Carolina
 G230 WEST SUBSTATION
 119 TO 119 KV
 SCADA MASTER

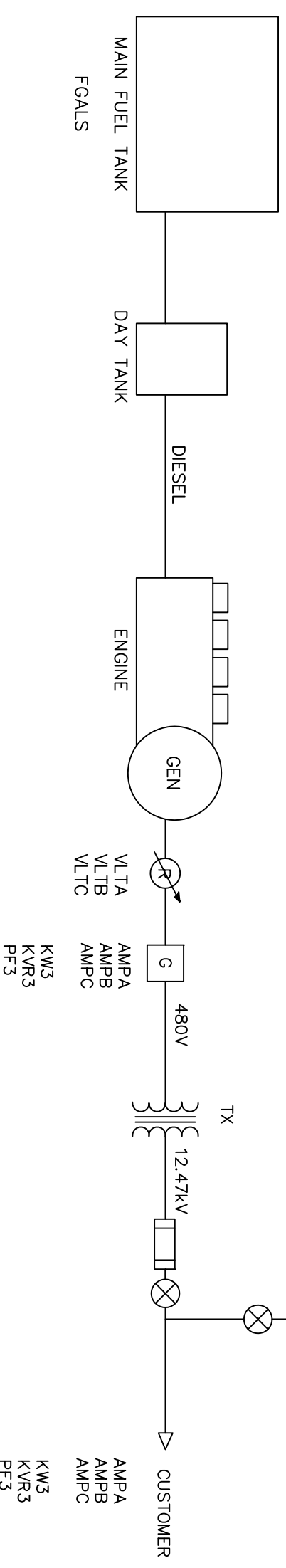
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CHKD BY	APR, RM	DMG NAME
SCALE	NONE	

ANNUNCIATORS

NAME

- ECU NO. 1
- ECU NO. 2
- ECU SCHOOL OF MEDICINE NO. 1
- ECU SCHOOL OF MEDICINE NO. 2
- PROCTER & GAMBLE
- NACCO
- METRICS
- KARASTAN NO. 1
- KARASTAN NO. 2
- COX COMMUNICATIONS
- JH ROSE HIGH SCHOOL
- DH CONLEY HIGH SCHOOL

GEN RUN TIME (LM)		GEN RUN TIME (ALL)	
TODAY	GRTD	FUEL TANK REMAINING	GRTT GRTT
THIS MONTH LAST MONTH	GRTM GRTM	THIS MONTH LAST MONTH	GRTM GRTM
THIS YEAR LAST YEAR	GRTY GRTY	THIS YEAR LAST YEAR	GRTY GRTY



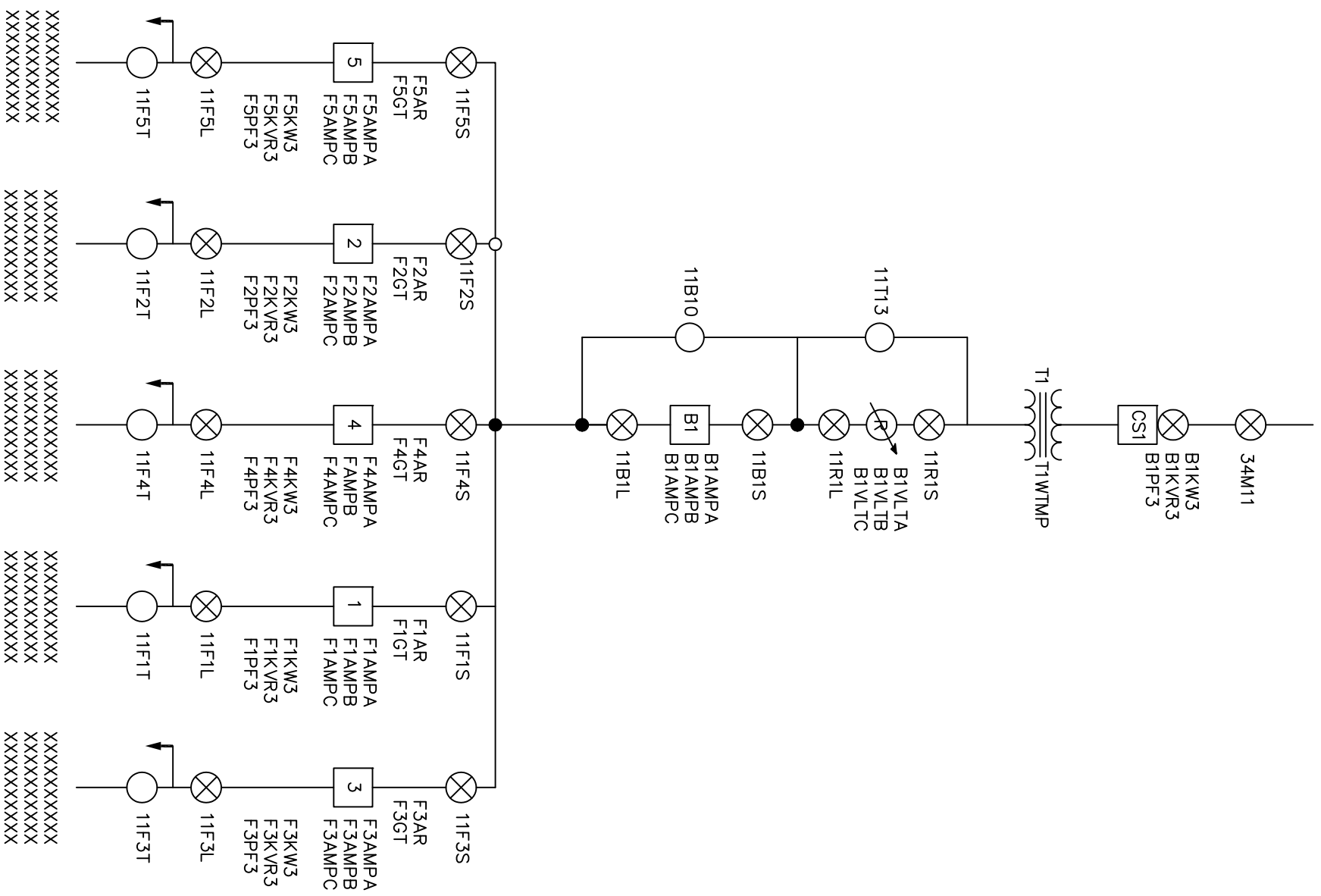
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G	R	R	R	R
OVERCRANK SHUTDOWN	OVERSPEED SHUTDOWN	HIGH OIL TEMP	LOW OIL PRESSURE WARNING	HIGH WATER TEMP SHUTDOWN
R	R	R	R	R
EMCP DIAG SHUTDOWN	GENERATOR OVERLOAD	GENERATOR LOCKED OUT	LOW WATER TEMP WARNING	HIGH WATER TEMP WARNING
R	R	R	A	A
ENGINE RUNNING	PLC FAULT	CONTROL NOT IN AUTO	LOW WATER TEMP	ECS NOT IN AUTO
G	R	R	A	R
LOSS OF AC BATT. CHARGER	FAIL TO SYNC	LOSS OF FUEL LEVEL MAIN TANK	FUEL LEAK MAIN TANK	
R	R	R	R	
LOSS OF AC FUEL DAY TANK	LOSS OF FUEL LEVEL DAY TANK	LOW FUEL LEVEL DAY TANK	FUEL LEAK DAY TANK	
R	R	R	R	
PEAK SHAVE MODE ON	STANDBY MODE ON	TRANSITION MODE OPEN	TRANSITION MODE CLOSED	
G	G	G	G	
UTILITY BREAKER OPEN	UTILITY BREAKER CLOSED	UTILITY BREAKER LOCKED OUT	UTILITY AVAILABLE	
G	R	R	G	
				LAMP TEST
				○

GREENVILLE UTILITIES
Greenville, North Carolina

GENERATOR TEMPLATE
115 TO 15 KV
SCADA MASTER

DATE: 07-05-11
DWG. NO.

Generator_Template.wfp.dwg



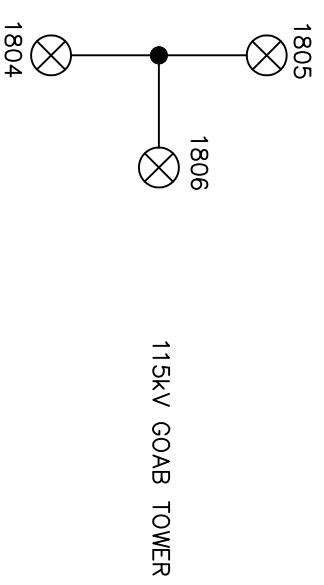
GREENVILLE UTILITIES
Greenville, North Carolina

HOLLYWOOD SUBSTATION
115 TO 15 KV
SCADA MASTER



DWG. NO.	DATE 06-17-11
SCALE: NONE	APPD. JTR
	DATE 06-17-11
	APPD. JTR

LEGEND



115kV GOAB TOWER



SWITCH



CIRCUIT SWITCHER WITH DISCONNECT



CIRCUIT SWITCHER WITHOUT DISCONNECT



LOAD TAP CHANGER OR REGULATOR



BUS BREAKER



FEEDER BREAKER



CAPACITOR

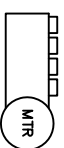


FEEDER GETAWAY



POD

LEGEND



GENERATOR

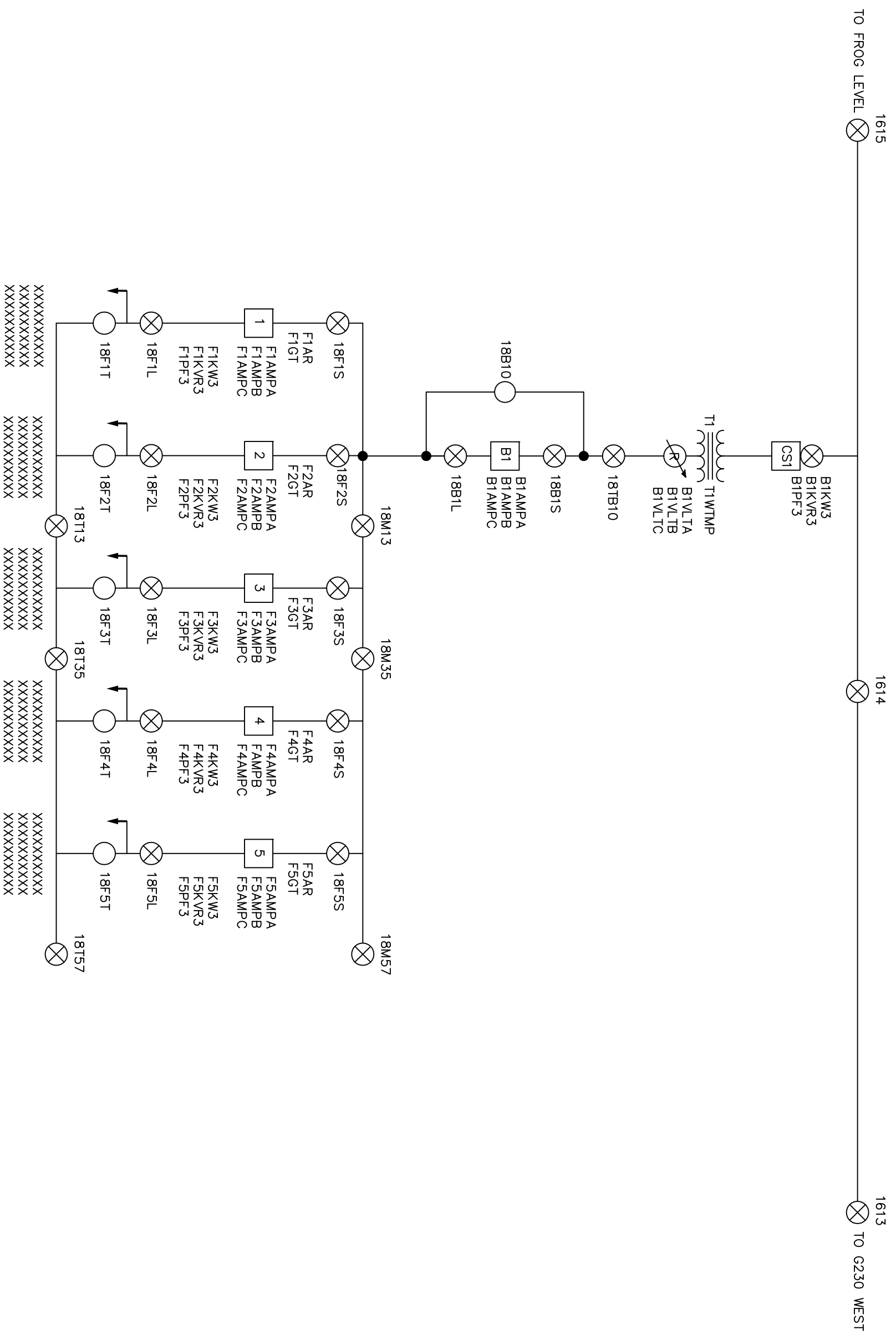


TRANSFORMER

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4. Dickinson	<ul style="list-style-type: none"> • ECU SCHOOL OF MEDICINE 1 • ECU SCHOOL OF MEDICINE 2
5. Eastern Bypass	<ul style="list-style-type: none"> • KARASTAN 1 (DICKINSON) • KARASTAN 2 (STATON)
6. Eastside	<ul style="list-style-type: none"> • DAILY REFLECTOR
7. ECU	<ul style="list-style-type: none"> • JH ROSE HS
8. Evans St	<ul style="list-style-type: none"> • DH CONLEY HS
9. Frog Level	<ul style="list-style-type: none"> • GUC MAIN OFFICE
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11. G230	
12. Hollywood	
13. Macgregor Downs	
14. Mt Pleasant	
15. Northside	
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17. Procter & Gamble	
18. Progress Energy	
19. S. Church Street – Town of Winterville	
20. Simpson12kV	
21. Simpson34kV	
22. Southside	
23. Stokestown	
24. Vernon White – Town of Winterville	
25. Wellcome	
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28. Winterville34kV	

<p>GREENVILLE UTILITIES Greenville, North Carolina</p>	
<p>LEGEND & TABLE OF CONTENTS 115 TO 15 KV SCADA MASTER</p>	
<p>DWG. NO. _____ CDD. JTR _____ SCALE: NONE</p>	<p>DATE: 07-05-11 APRD. JTR _____</p>



GREENVILLE UTILITIES
Greenville, North Carolina

MAGREGOR DOWNS SUBSTATION
115 TO 15 KV
SCADA MASTER

DWG. NO. _____

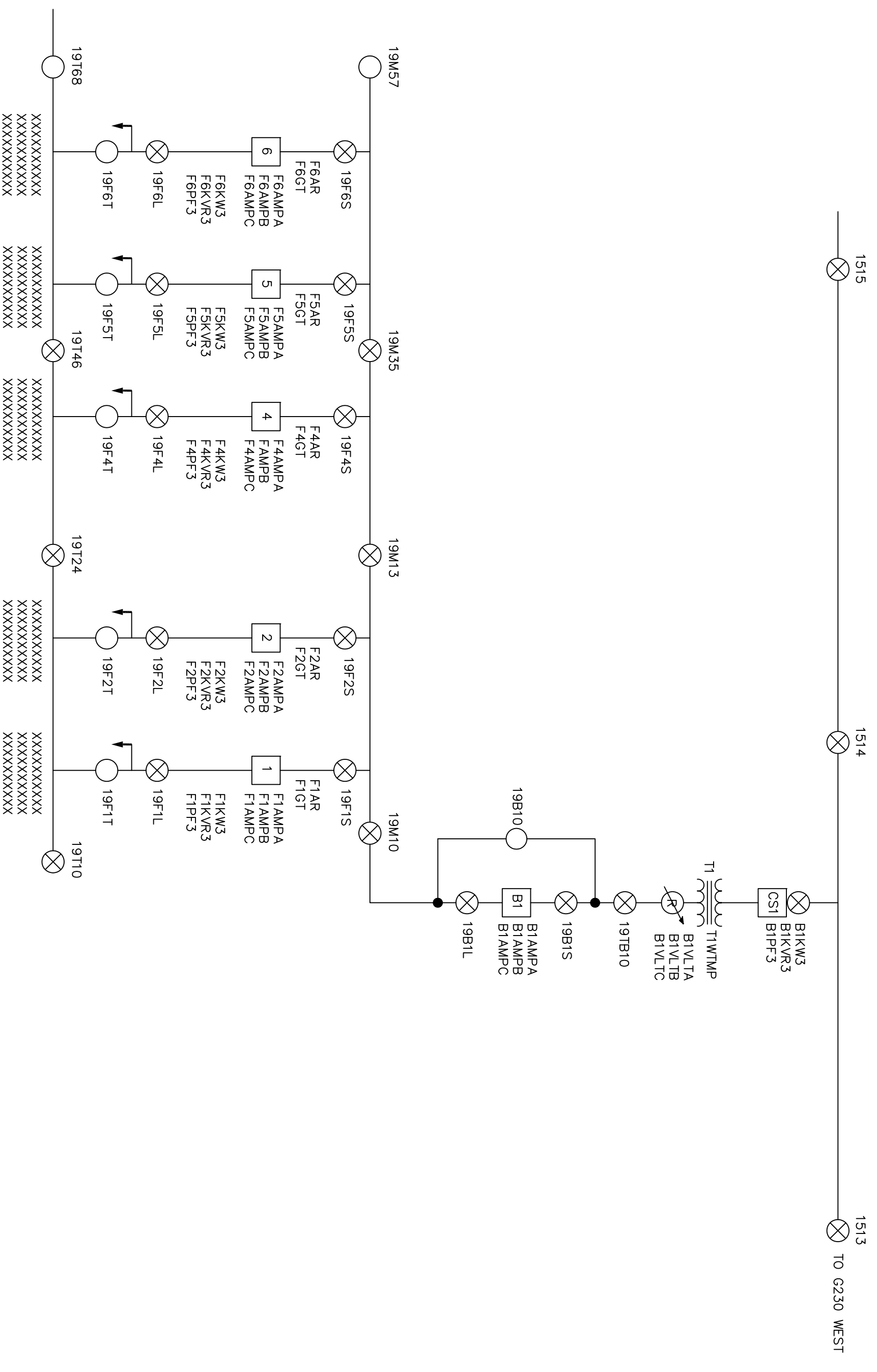
DATE 08-17-11

APPD. JTR

SCALE: NONE

Greenville Utilities

Magregor Downs.wfp.dwg



GREENVILLE UTILITIES
Greenville, North Carolina

MT. PLEASANT SUBSTATION
115 TO 15 KV
SCADA MASTER

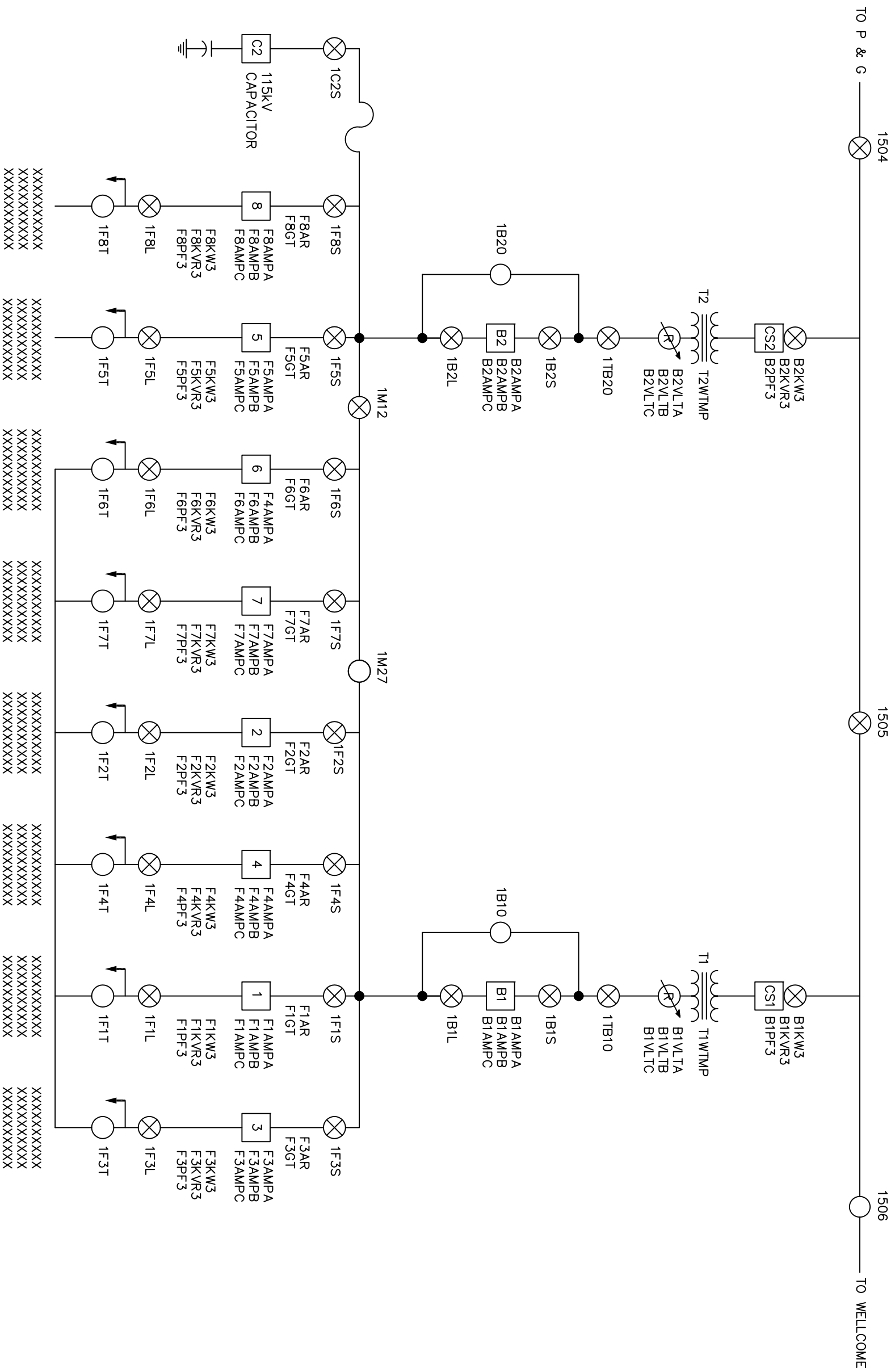
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SCALE: NONE	06-17-11	
	APPD. JTR	

GREENVILLE UTILITIES
Greenville, North Carolina

MT. PLEASANT SUBSTATION
115 TO 15 KV
SCADA MASTER

DWG. NO.

Mt. Pleasant.wfp.dwg



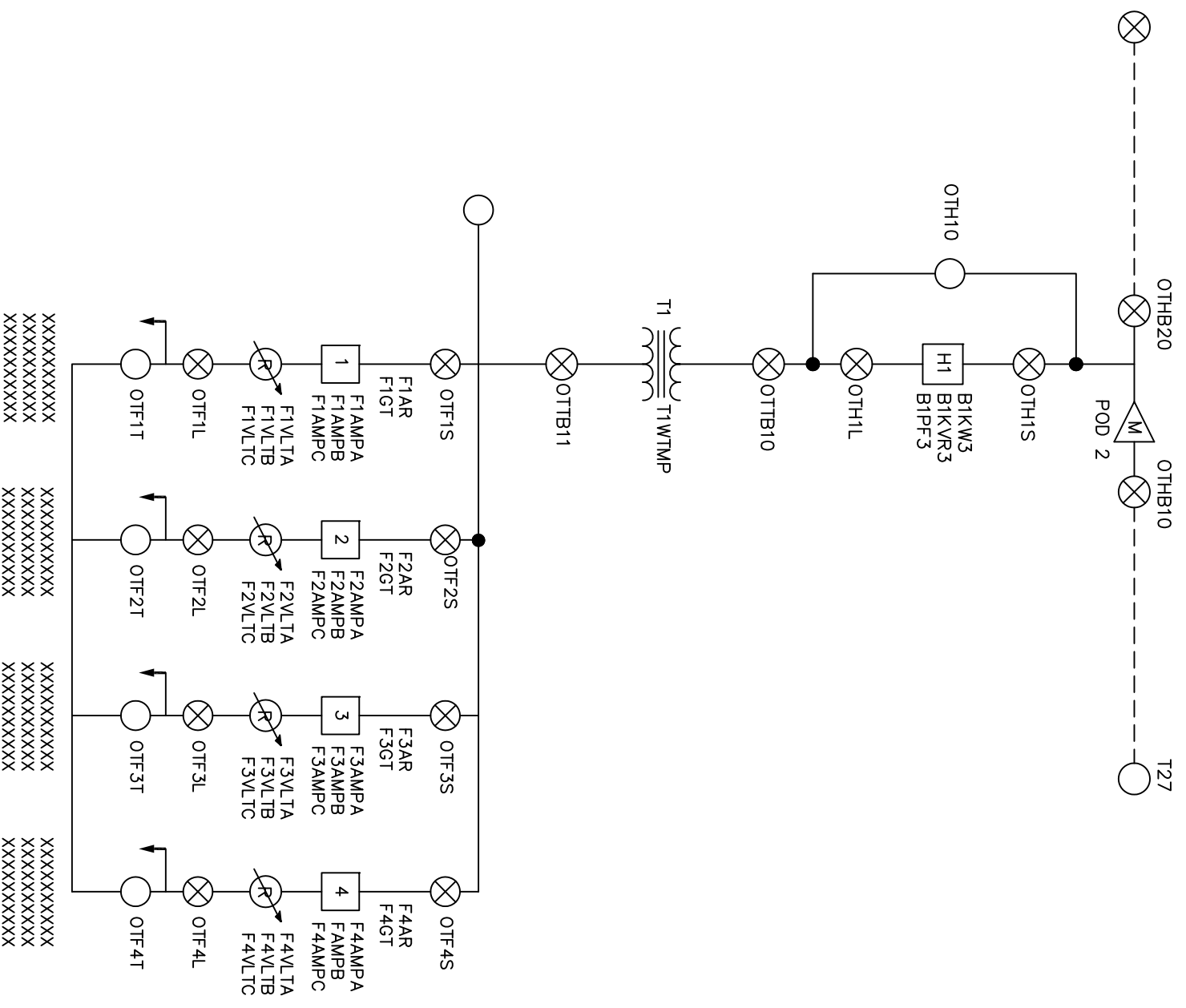
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Greenville Utilities

GREENVILLE UTILITIES
 Greenville, North Carolina
NORTHSIDE SUBSTATION
 115 TO 15 KV
 SCADA MASTER

DWG. NO.	
DATE	06-17-11
APPD.	JTR
SCALE	NONE

DWG. NO.	
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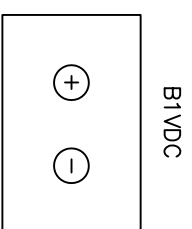
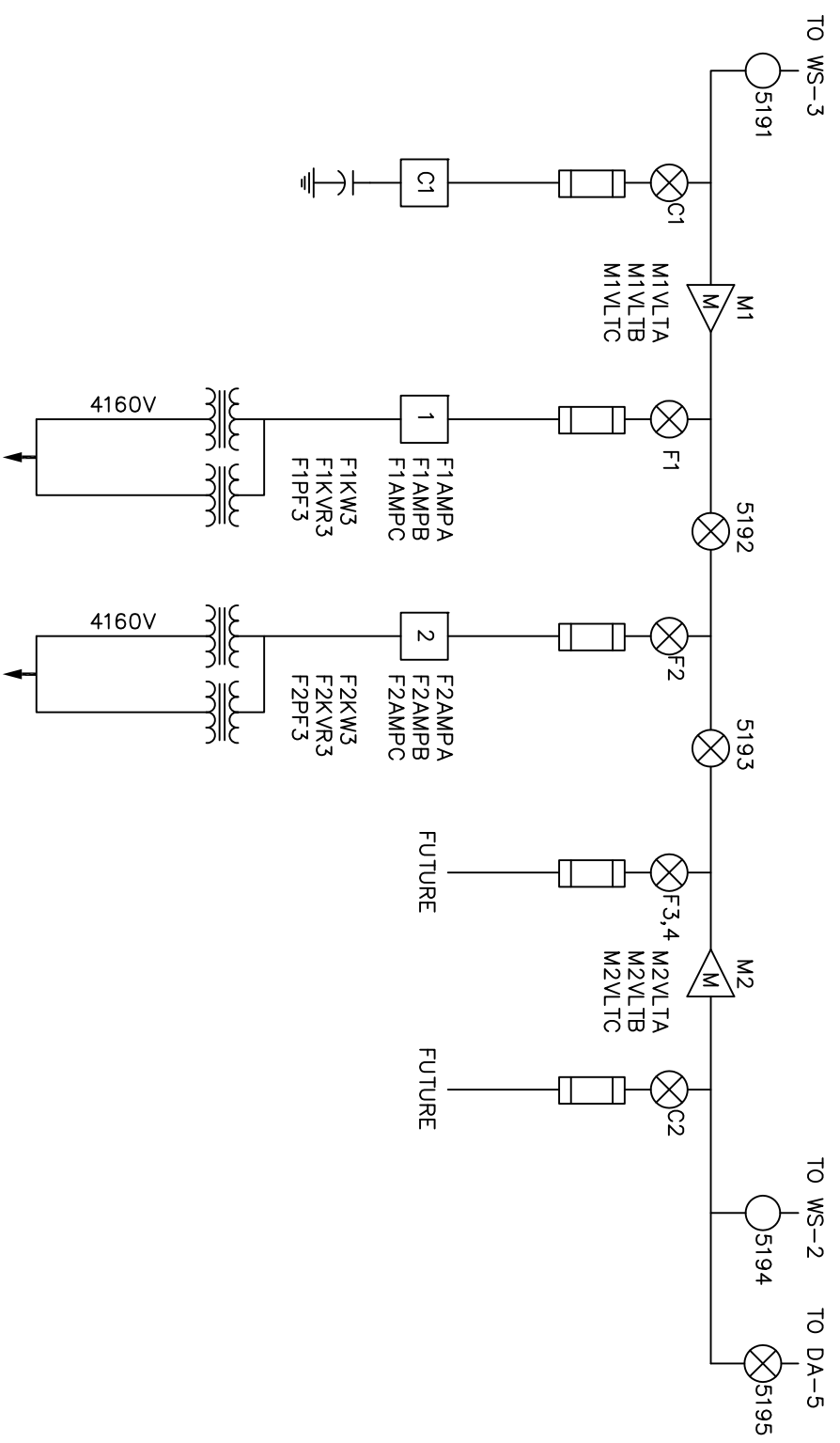
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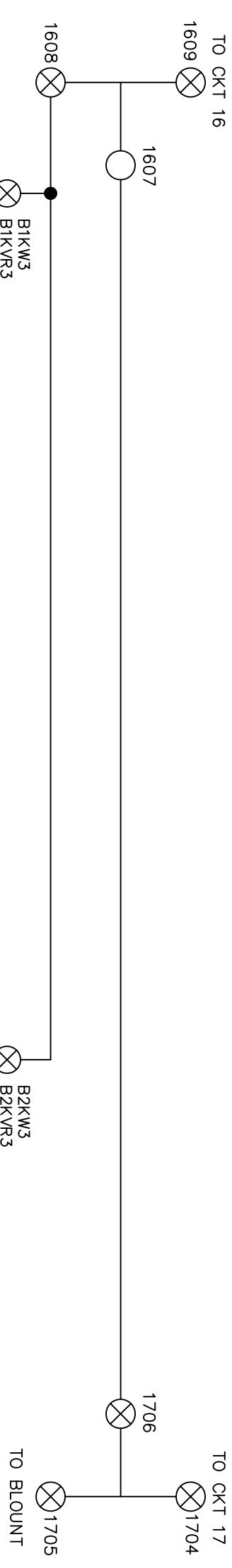
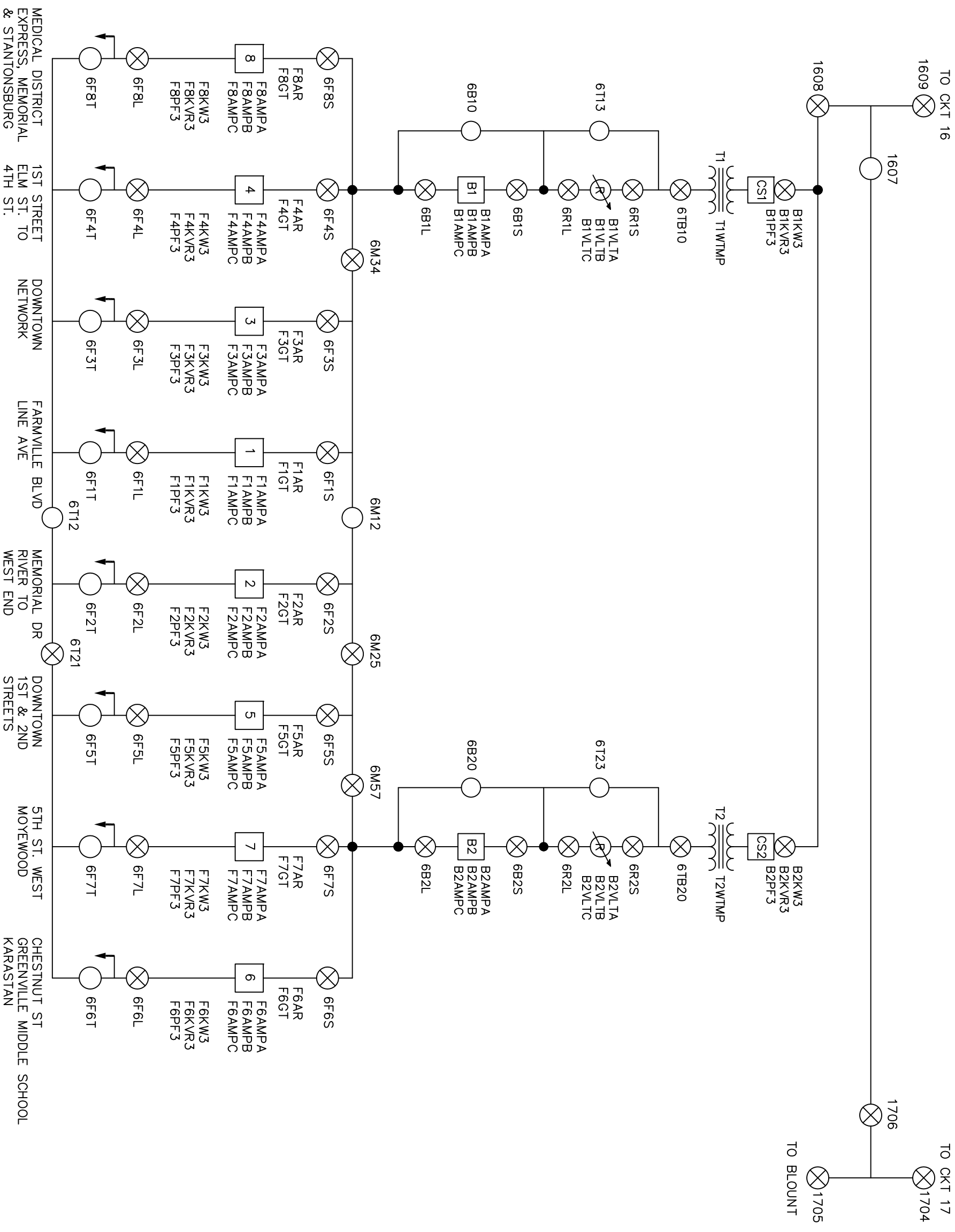
Greenville
Utilities

GREENVILLE UTILITIES
 Greenville, North Carolina
 OLD TAR ROAD SUBSTATION
 115 TO 15KV
 SCADA MASTER

DWG. CLK	DATE 07-06-11	DWG. NO.
COO. JIR	APPR. JIR	
SCALE NONE		



GREENVILLE UTILITIES Greenville, North Carolina	
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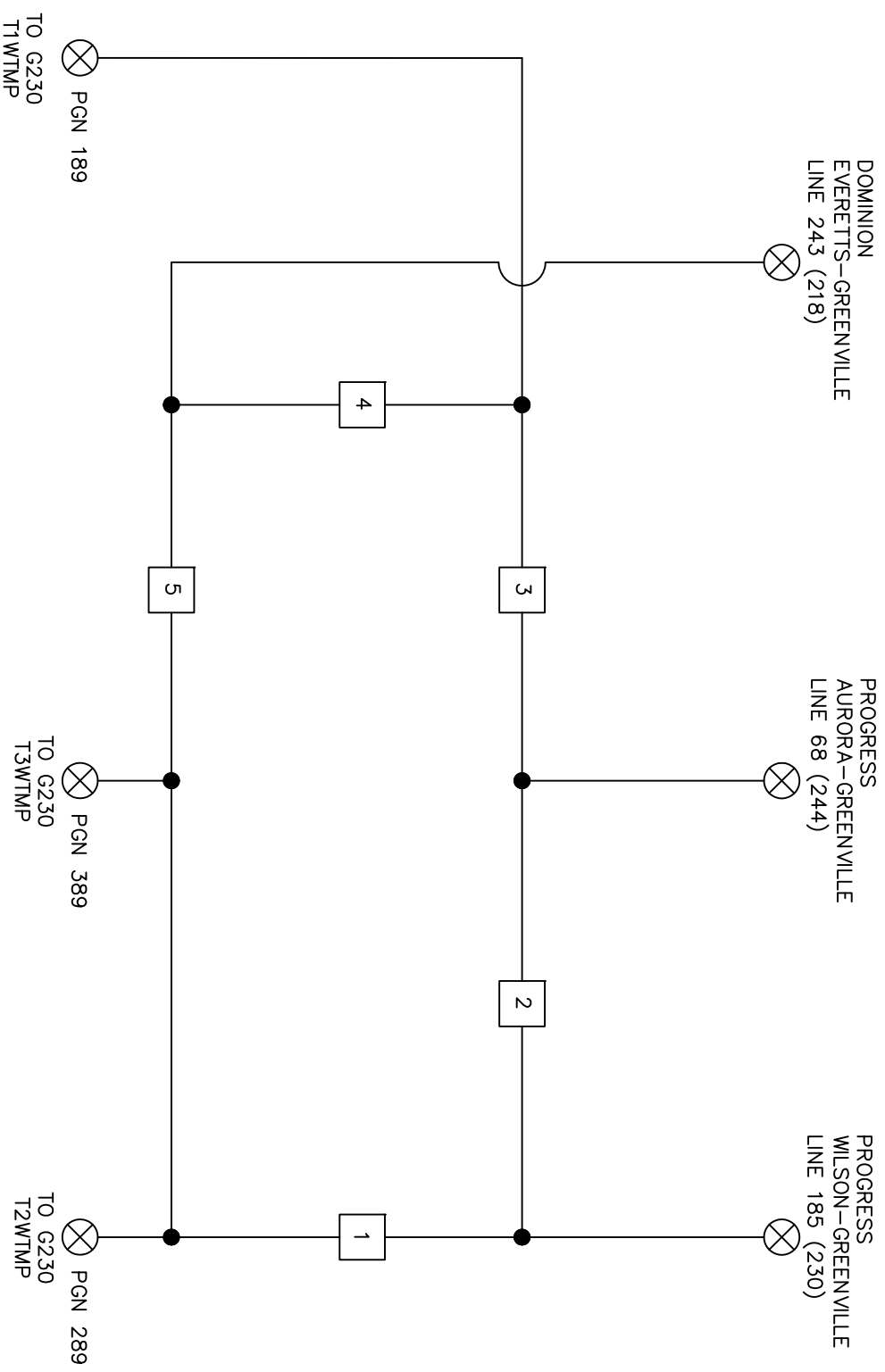


GREENVILLE UTILITIES
Greenville, North Carolina

POWER PLANT SUBSTATION
115 TO 15 KV
SCADA MASTER

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115 TO 15 KV	08-21-11	
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Powerplant_wfp.dwg



GREENVILLE UTILITIES
 Greenville, North Carolina

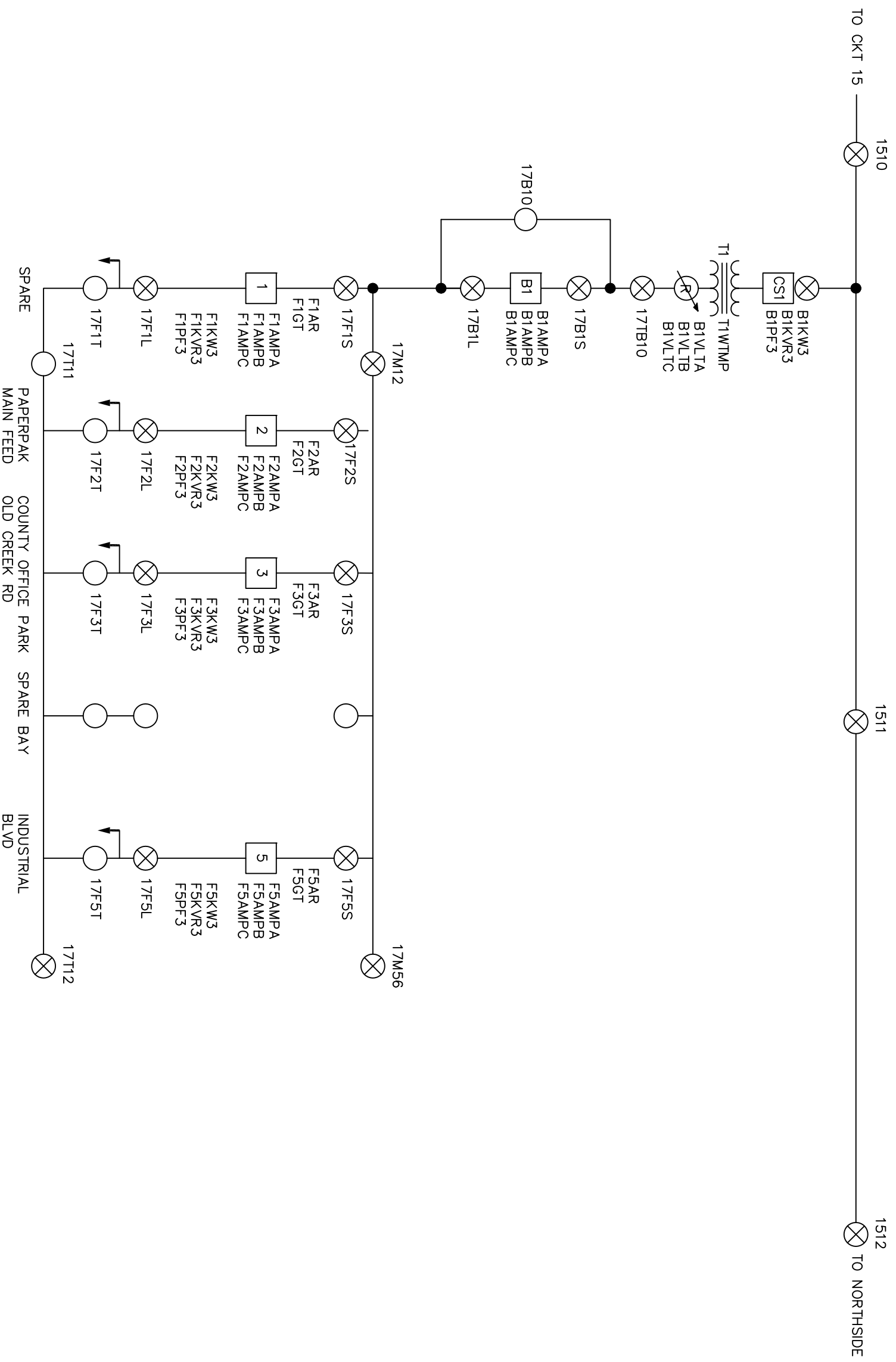
PROGRESS ENERGY SUBSTATION
 115 TO 15 KV
 SCADA MASTER

DMG. NO. _____
 DMG. NAME _____

DATE: 06-23-11
 APRD. JTR

DMG. K&K _____
 CDD. JTR

SCALE: NONE



GREENVILLE UTILITIES
 Greenville, North Carolina

PROCTOR & GAMBLE SUBSTATION
 115 TO 15 KV
 SCADA MASTER



DWG. NO.	DATE 06-21-11
SCALE: NONE	APPD. JTR
	APRD. JTR

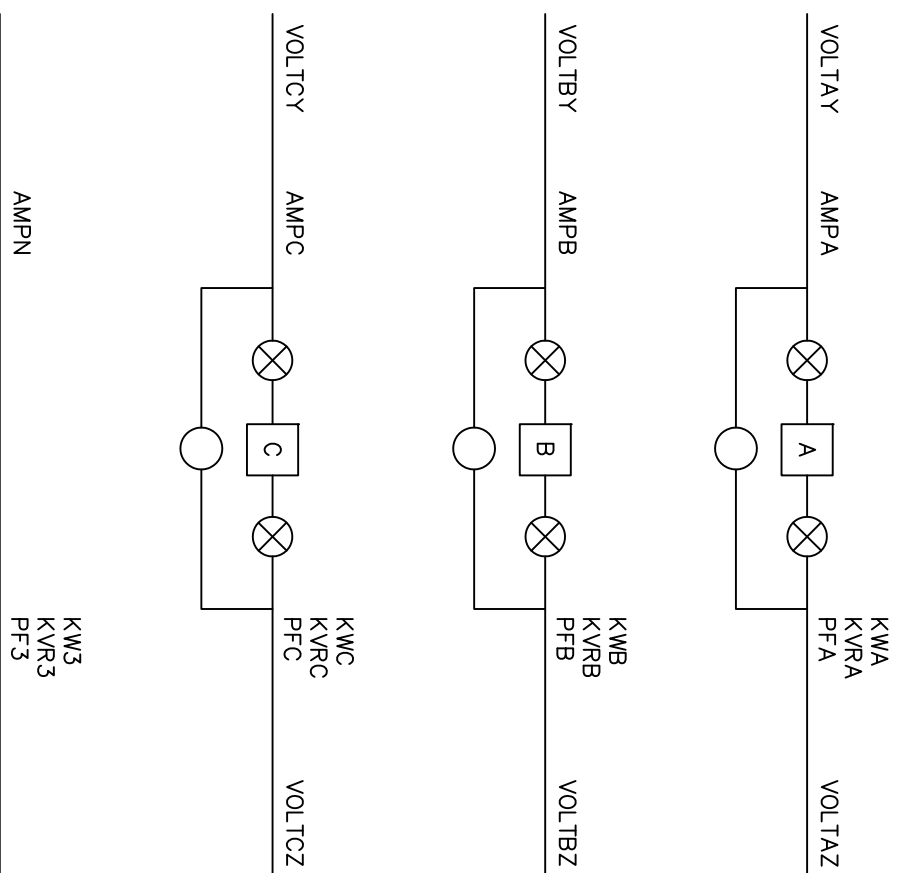
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 NC 903N
 OAKLEY ROAD
 STOKES
 WHICHARDS
 PACTOLUS
 NC 33E
 BLACK JACK
 HELENS XRDS
 SHAMROCK
 RENSTON
 US 264A

NAME

PICKUP A	LOOKOUT A	TARGET A
PICKUP B	LOOKOUT B	TARGET B
PICKUP C	LOOKOUT C	TARGET C
PICKUP G		TARGET G
LOSS OF AC	TRIP FAILURE	TARGET FAST
BATTERY ALARM		TARGET SLOW
IED ALARM		TARGET RESET

FROM <SOURCE>

TO <FEED>



AMPN

KW3
 KVR3
 PF3



GREENVILLE UTILITIES
 Greenville, North Carolina
 RECLOSER TEMPLATE
 115 TO 15 KV
 SCADA MASTER

DWG. NO. _____
 DATE 07-13-11
 APPD. JTR
 SCALE: NONE

NOTE:



FORWARD POWER FLOW



REVERSE POWER FLOW

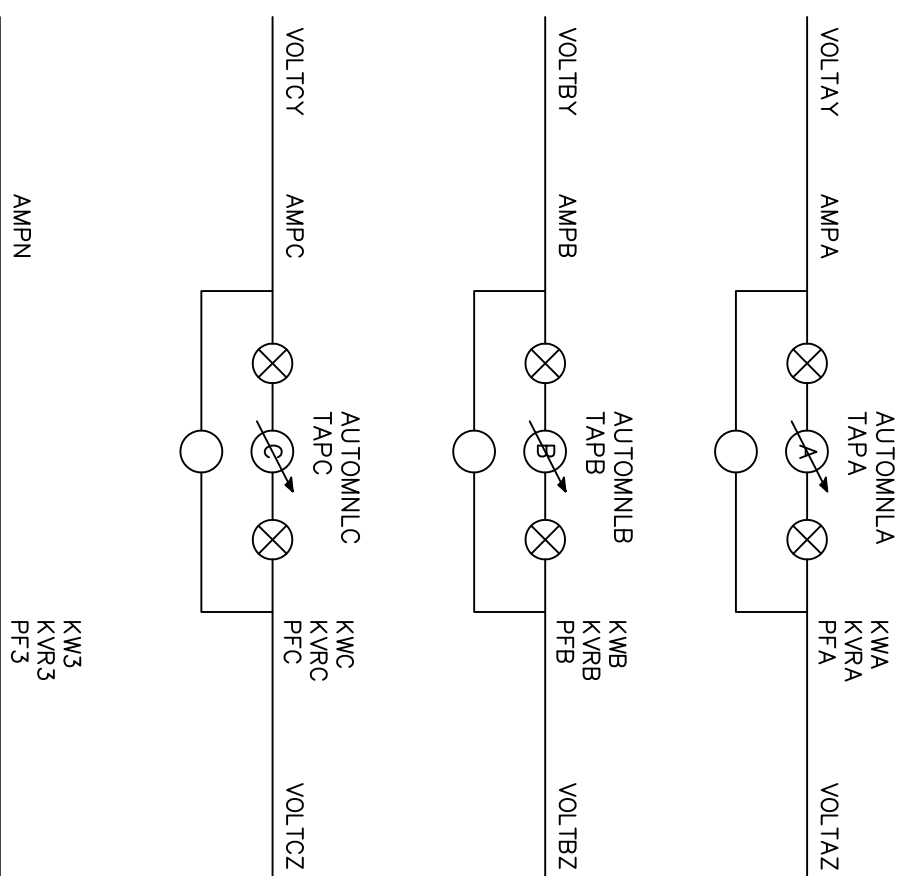
NAME

STOKES
PACTOLUS
BLACK JACK
BELVOIR

ALARM A	ALARM B	ALARM C
MAX VRA	MAX VRB	MAX VRC
NEUTRAL A	NEUTRAL B	NEUTRAL C
RAISE LIMIT A	RAISE LIMIT B	RAISE LIMIT C
LOWER LIMIT A	LOWER LIMIT B	LOWER LIMIT C
LOSS AC A	LOSS AC B	LOSS AC C

FROM <SOURCE>

TO <FEED>



GREENVILLE UTILITIES
Greenville, North Carolina

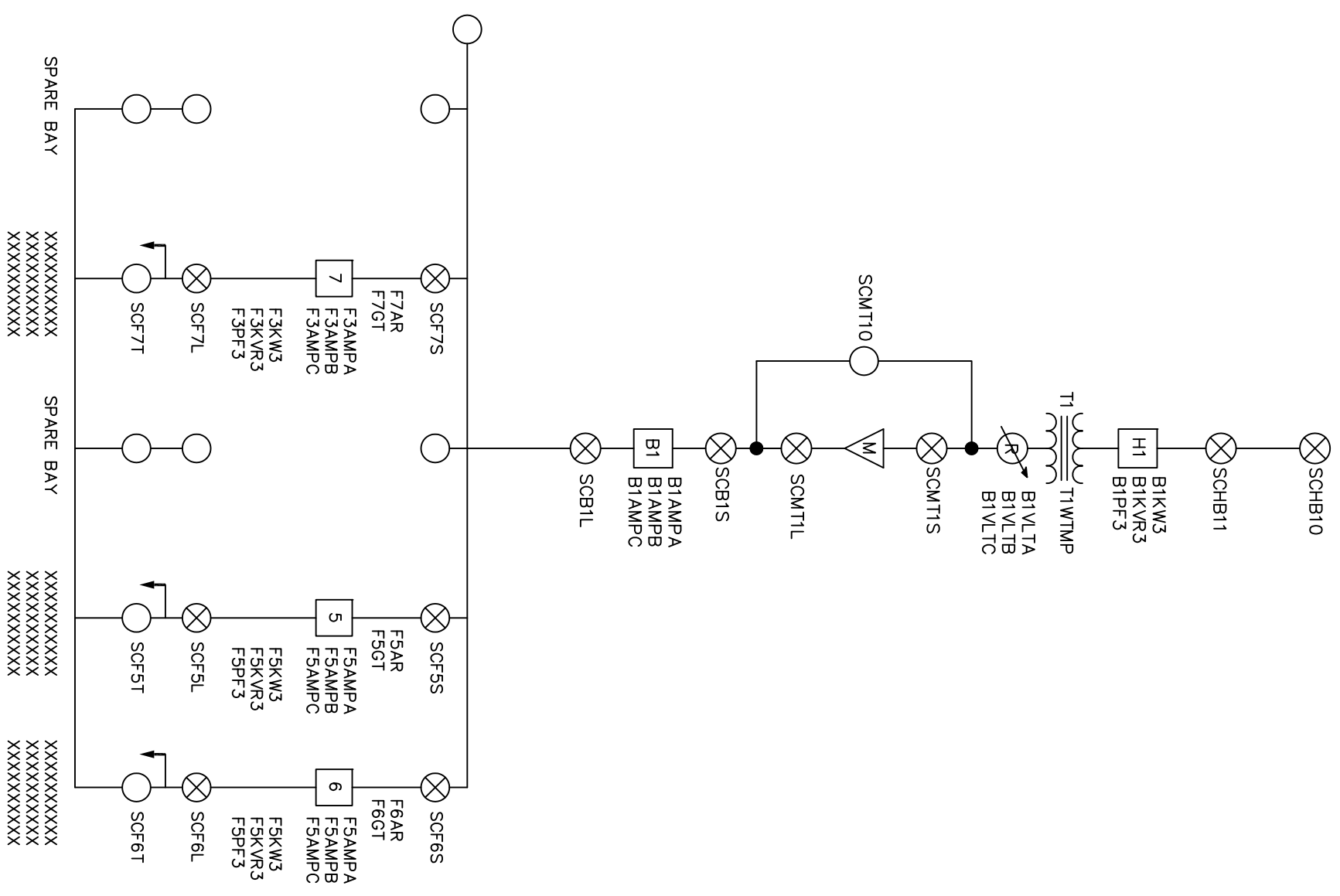
REGULATOR TEMPLATE
115 TO 15 KV
SCADA MASTER

GREENVILLE UTILITIES
Utilities

DATE: 07-13-11
DWG. NO.

SCALE: NONE

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SPARE BAY
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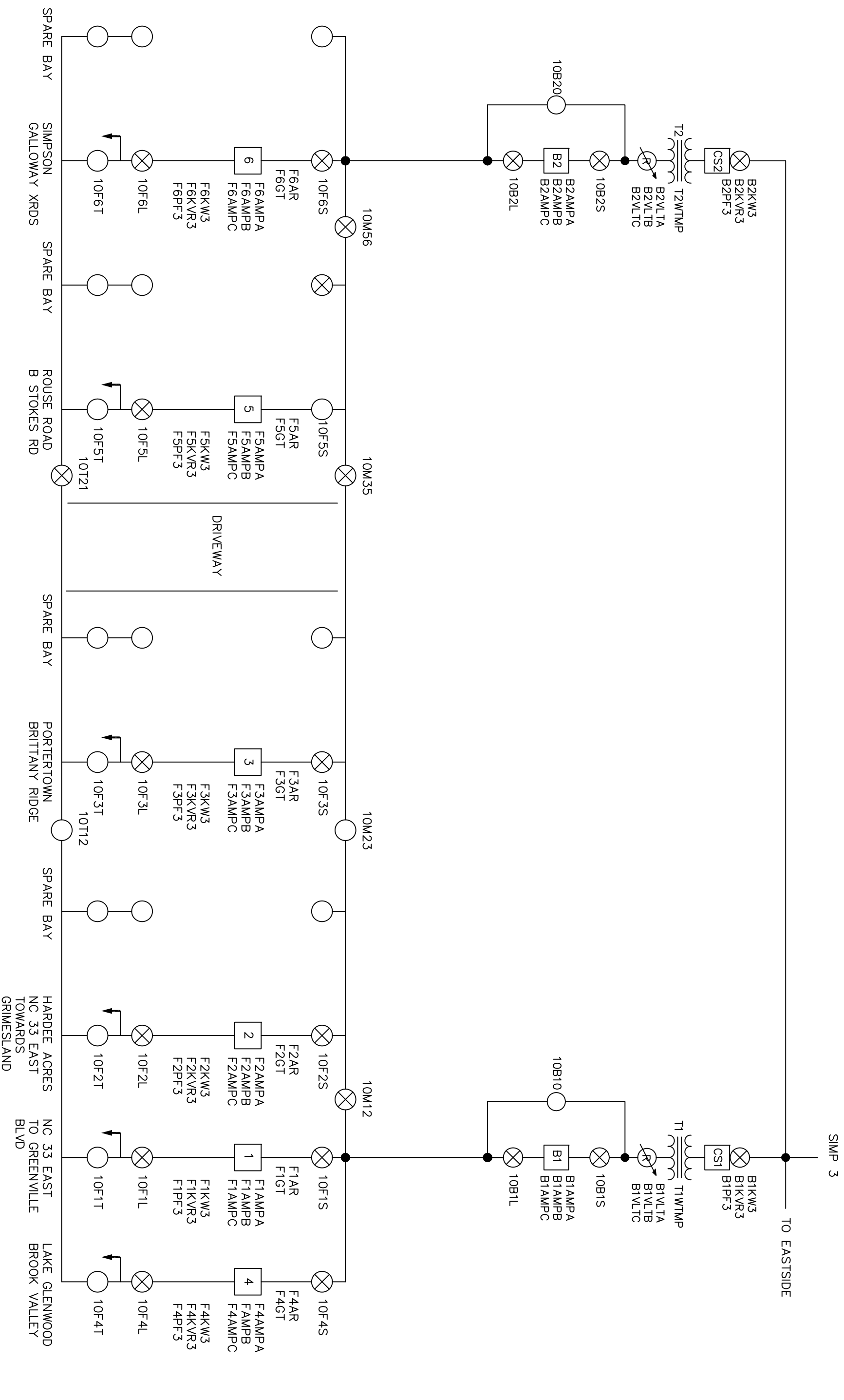
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SPARE BAY
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GREENVILLE UTILITIES
 Greenville, North Carolina

GREENVILLE UTILITIES
 SOUTH CHURCH STREET SUBSTATION
 TOWN OF WINTERVILLE
 115 TO 15KV
 SCADA MASTER

DWG. CLK	DATE 07-01-11	DWG. NO.
COO. JIR	APRD. JIR	
SCALE: NONE		

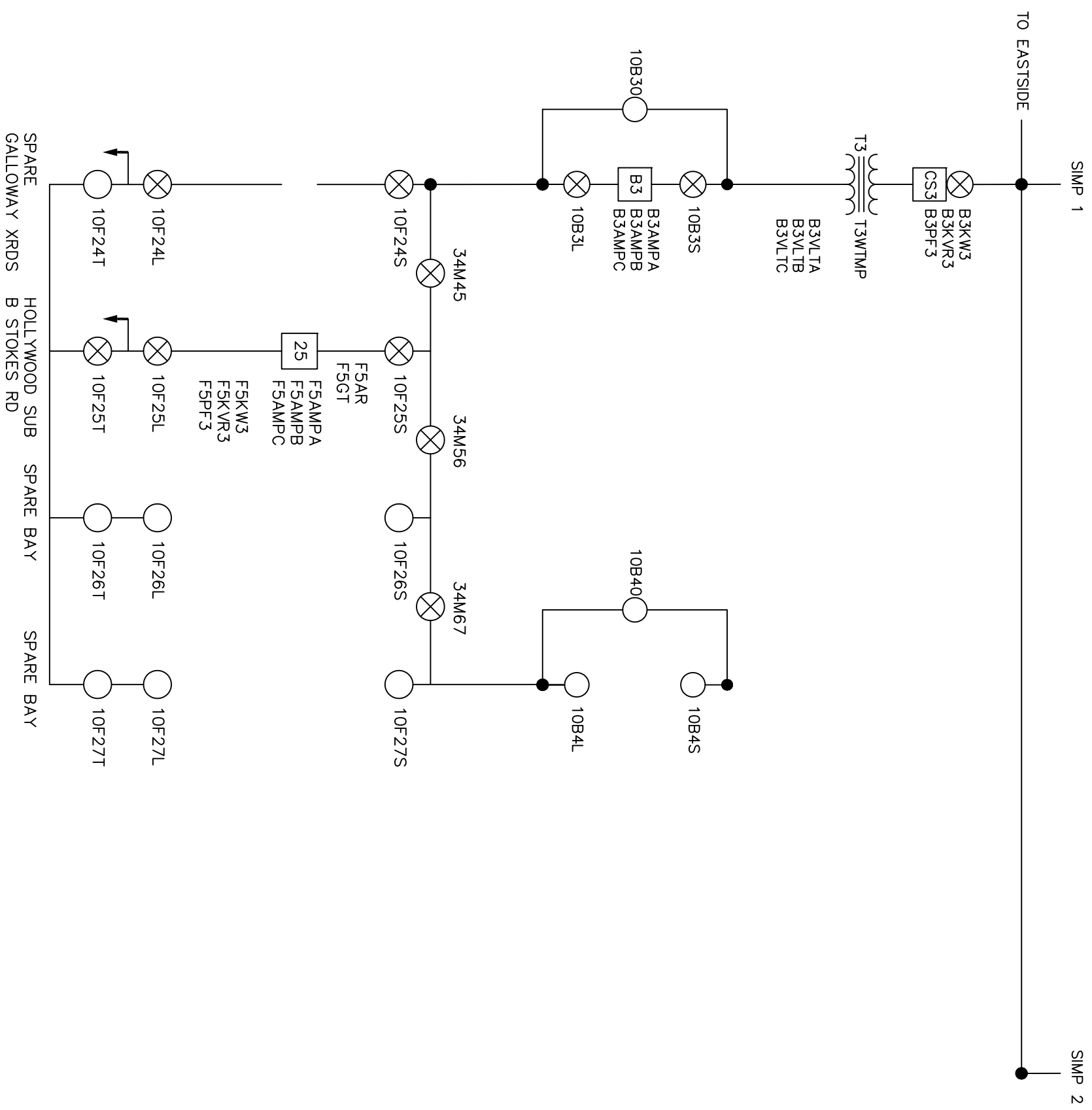


GREENVILLE UTILITIES
Greenville, North Carolina

SIMPSON 12KV SUBSTATION
115 TO 15 KV
SCADA MASTER



DWG. NO.	DWG. NAME
115 TO 15 KV	SIMPSON 12KV SUBSTATION
DATE: 06-21-11	DATE: 06-21-11
APPD. JMR	APPD. JMR
SCALE: NONE	SCALE: NONE



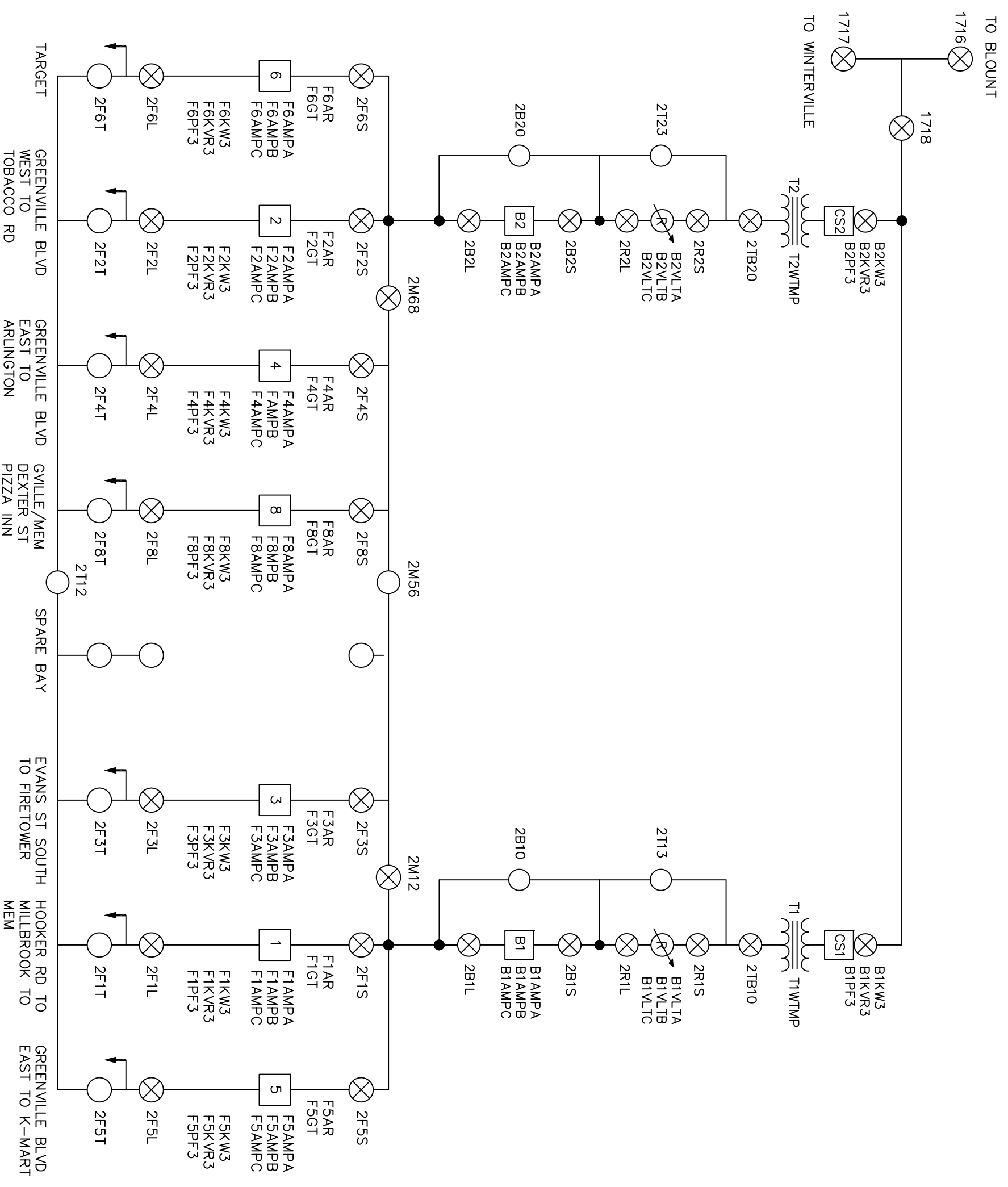
GREENVILLE UTILITIES
 Greenville, North Carolina

SIMPSON 34kV SUBSTATION
 115 TO 15 kV
 SCADA MASTER

Greenville Utilities

DWG. NO.	DATE
DWG. NAME	APRD. JTR

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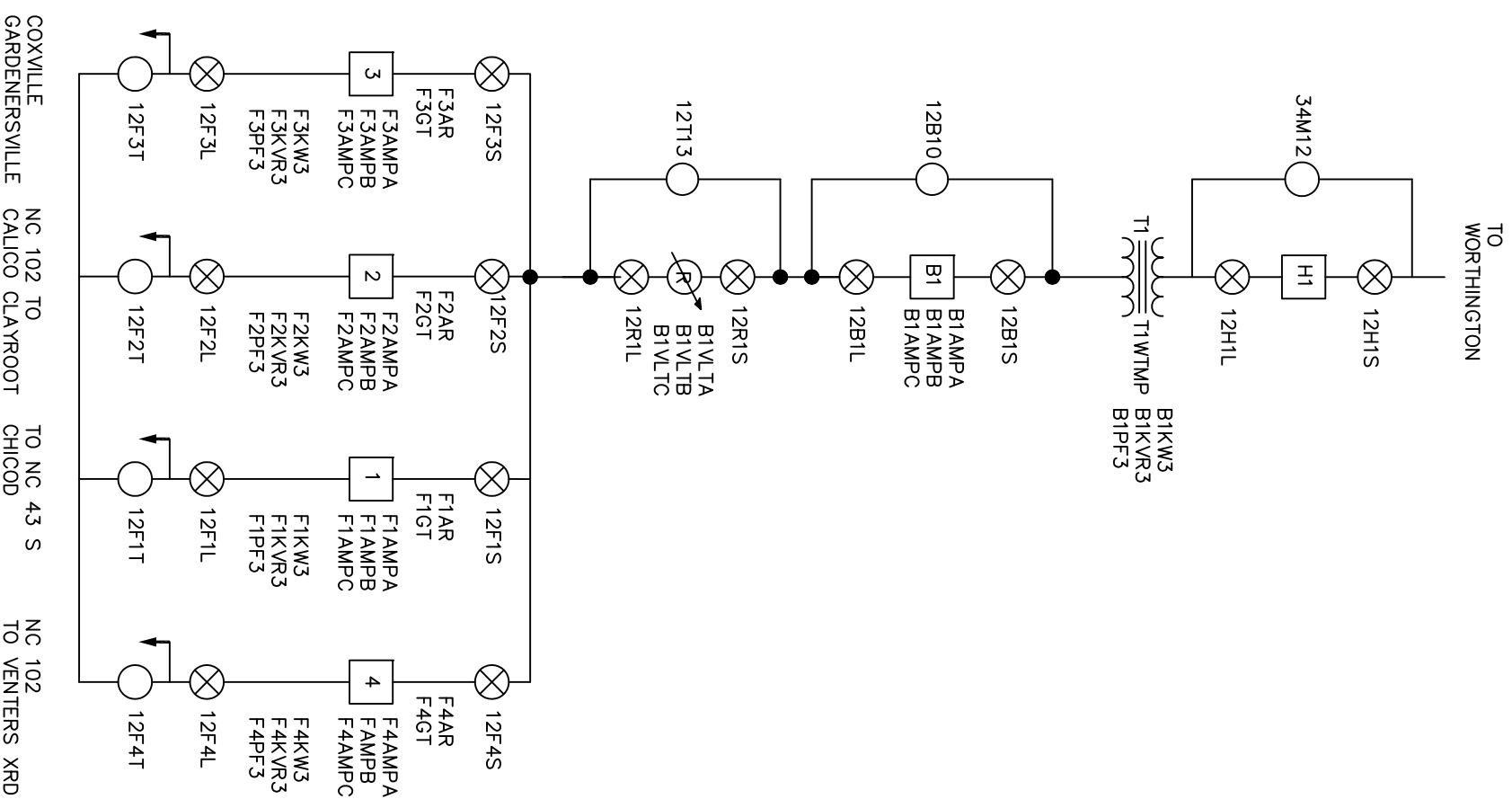


GREENVILLE UTILITIES
 Greenville, North Carolina

SOUTHSIDE SUBSTATION
 115 TO 15 KV
 SCADA MASTER

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000. JMR	APRD. JMR	DWG. NAME
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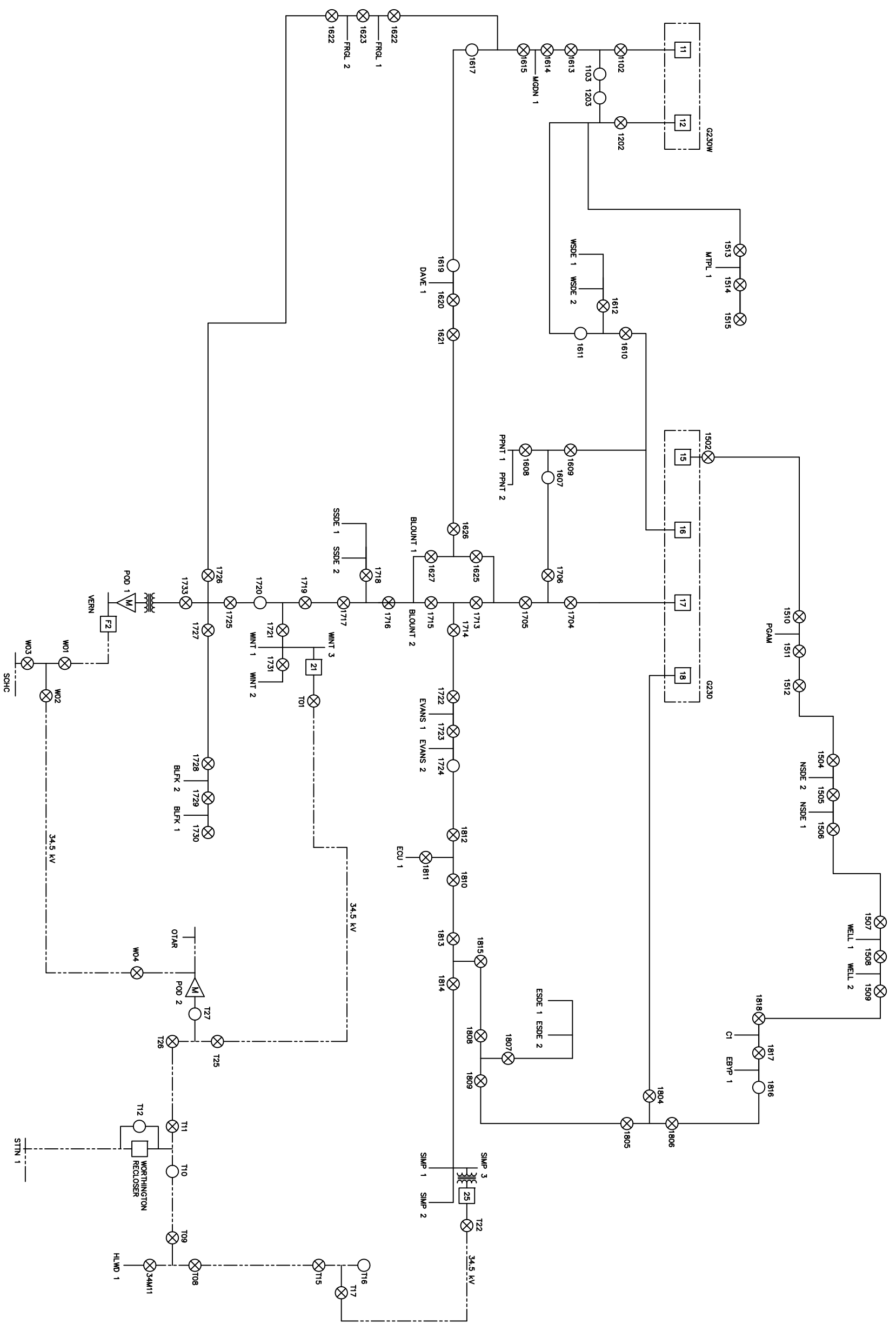


GREENVILLE UTILITIES
Greenville, North Carolina

STOKESTOWN SUBSTATION
115 TO 15 KV
SCADA MASTER

DNW, KAK	DATE 06-21--11	DWG. NO.
COO, JTR	APPR. JTR	
SCALE NONE		





LINE DESIGNATION

————— 115kV

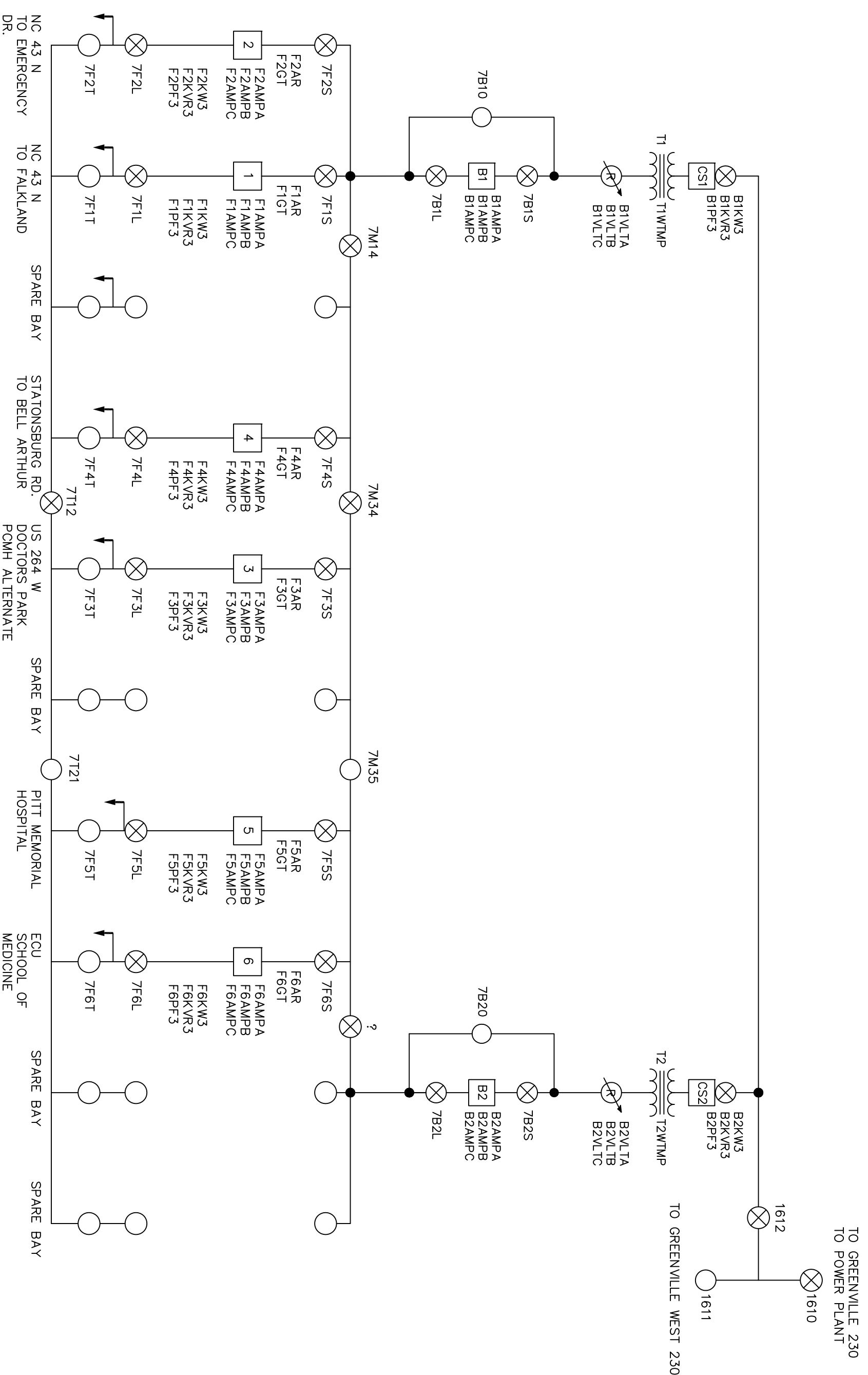
----- 34.5kV




GREENVILLE UTILITIES
 Greenville, North Carolina

SUBSTATIONS ONE LINE MASTER VIEW
 115 TO 13 kV
 SCADA MASTER

DATE	06-23-11	DMG, NC
BY	APR, EN	DMG
SCALE	NONE	NAME



NC 43 N TO EMERGENCY
 NC 43 N TO FALKLAND
 SPARE BAY
 STATIONSBURG RD. TO BELL ARTHUR
 US 264 W DOCTORS PARK PCMH ALTERNATE
 SPARE BAY
 PITT MEMORIAL HOSPITAL
 ECU SCHOOL OF MEDICINE
 SPARE BAY
 SPARE BAY



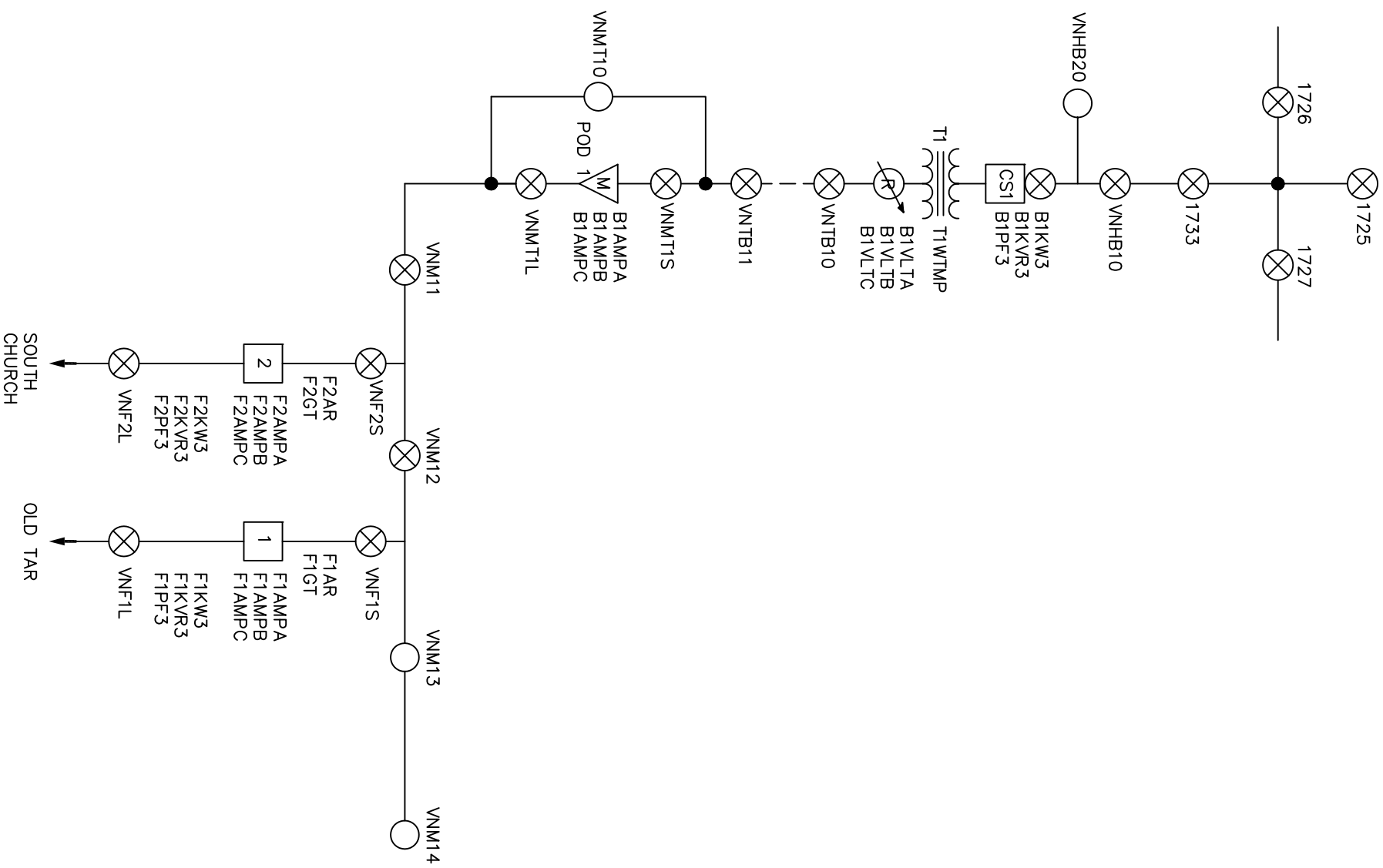
Greenville Utilities


GREENVILLE UTILITIES
 Greenville, North Carolina

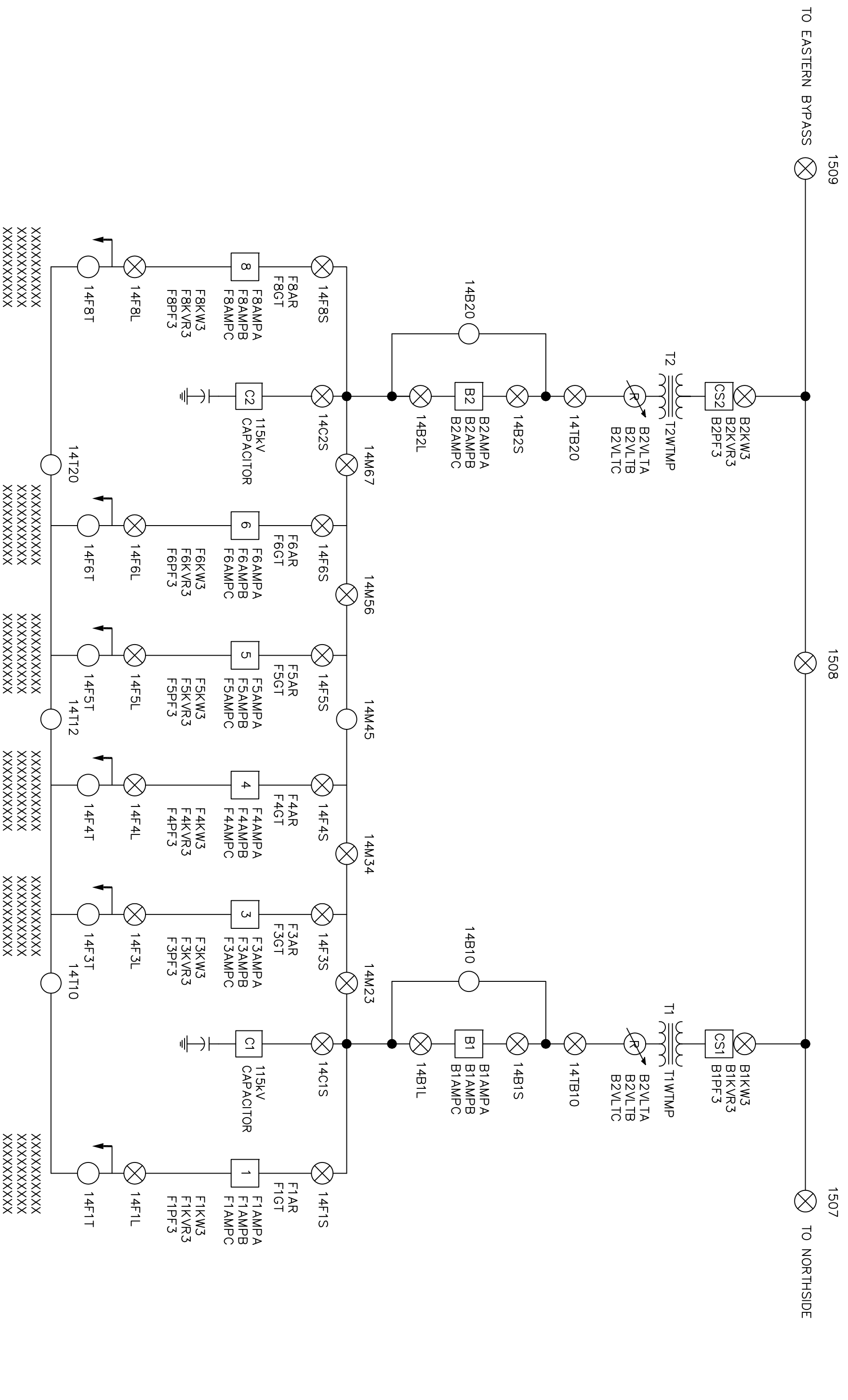
WESTSIDE SUBSTATION
 115 TO 15 KV
 SCADA MASTER

DWN. KJK	DATE: 06-23-11	DWG. NO.
COO. JMR	APRD. JMR	DWG. NAME
SCALE: NONE		

Westside.wp-dwg



 Greenville Utilities	
GREENVILLE UTILITIES Greenville, North Carolina	
VERNON WHITE SUBSTATION TOWN OF WINTERVILLE 115 TO 15kV SCADA MASTER	
DWG. L&K COO. JIR SCALE: NONE	DATE: 07-01-11 APR. JIR DWG. NO.



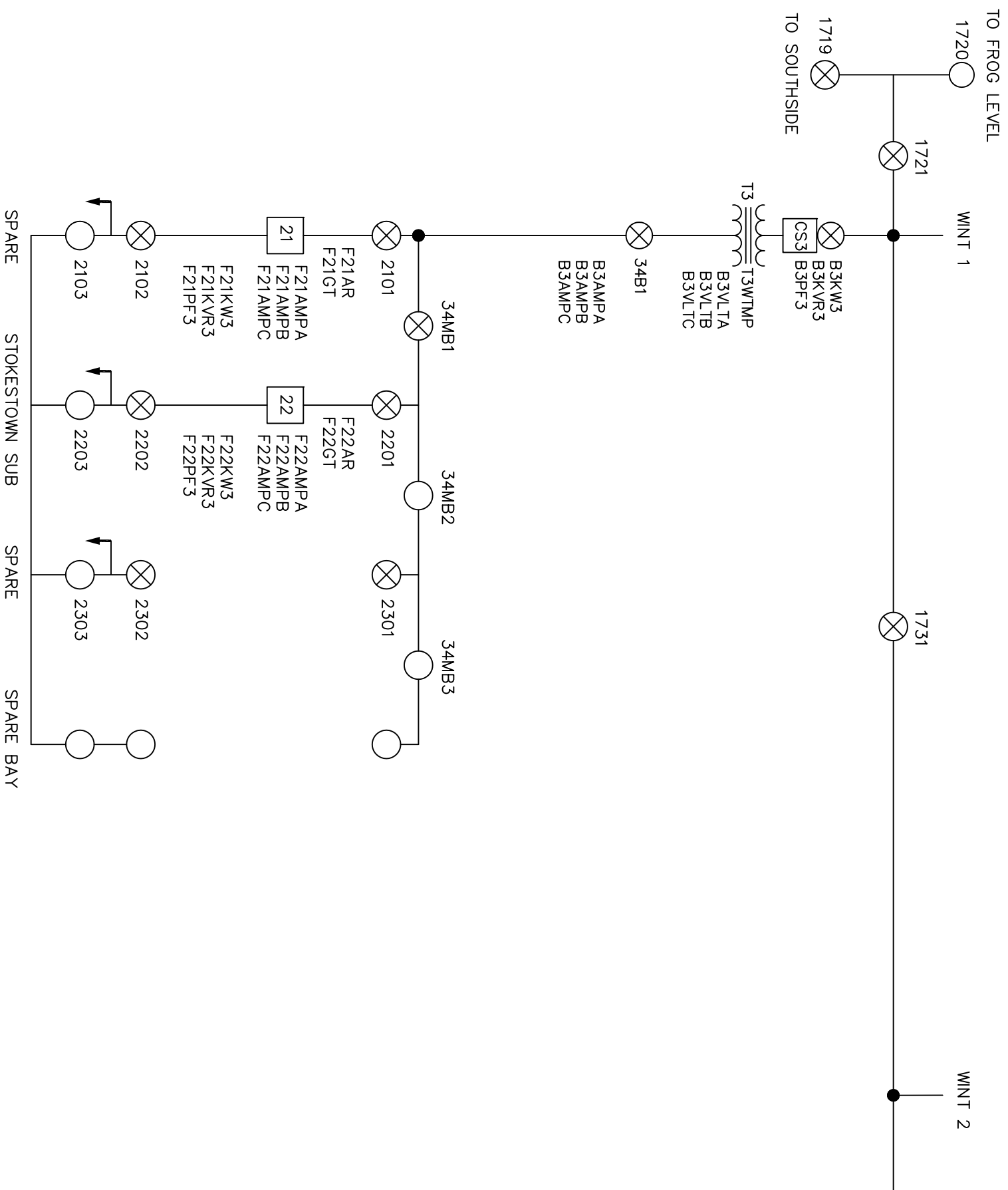
GREENVILLE UTILITIES
 Greenville, North Carolina

WELLCOME SUBSTATION
 115 TO 15 KV
 SCADA MASTER

DATE: 06-23-11
 DWG. NO. DWG. NAME

DMK, KJK
 CDD, JTR
 SCALE: NONE

Wellcome_wfp.dwg



GREENVILLE UTILITIES
 Greenville, North Carolina

WINTERVILLE 34kV SUBSTATION
 115 TO 15 KV
 SCADA MASTER

DMG, K&K
 COO, JMR
 DATE: 06-21-11
 APPD, JMR

DMG, NO.
 DMG NAME

Winterville34kV.wp-dwg