

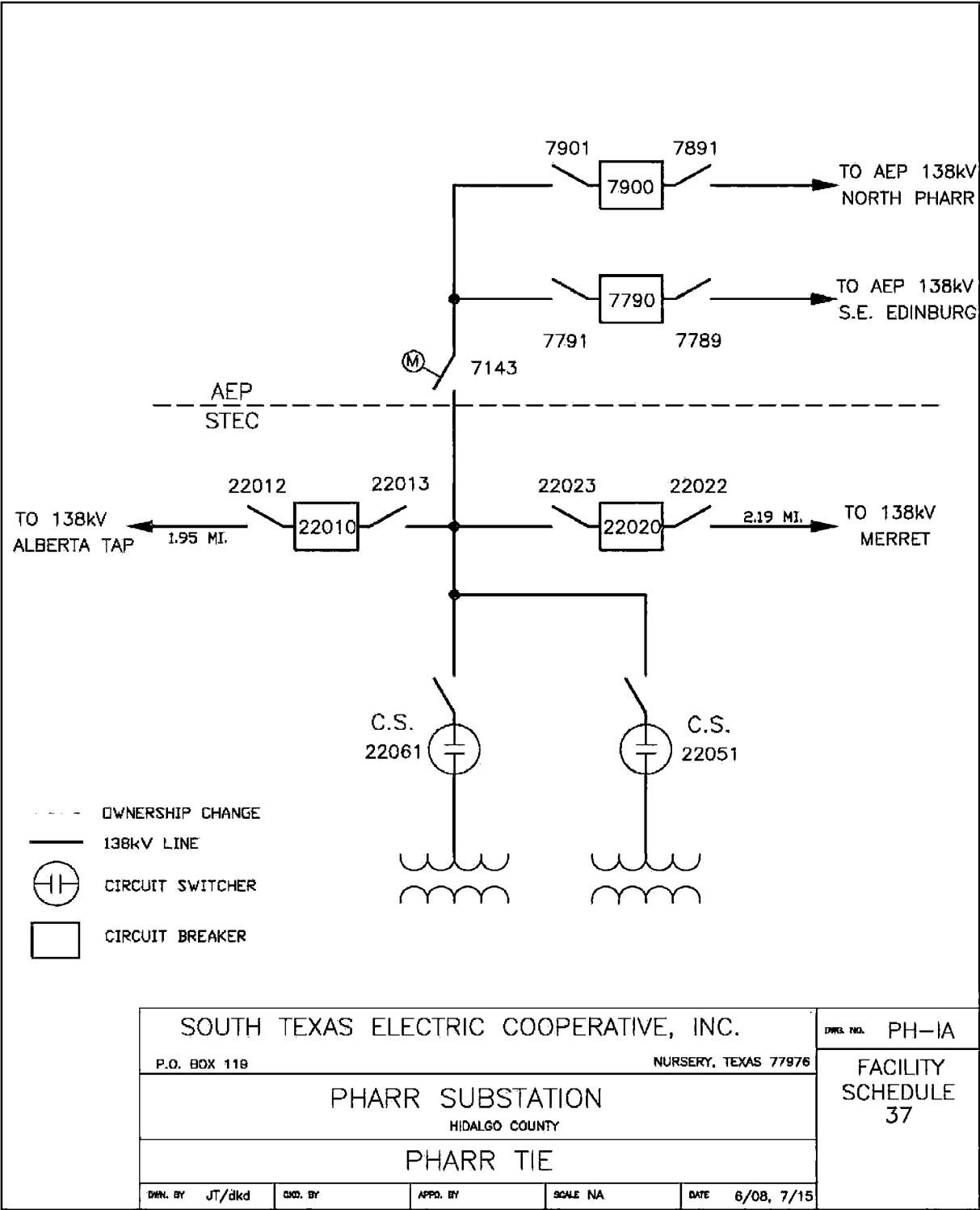
FACILITY SCHEDULE NO. 37

- 1. Name:** **Pharr**
- 2. Facility Location:** STEC's Pharr Substation ("STEC Substation") is located at 1920 E. Wisconsin Road, Edinburg, Texas, in Hidalgo County. The Point of Interconnection is where STEC's 138 kV bus equipment jumpers physically connect to AEP's switch (7143).
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the 138 kV meter and metering facilities on AEP's Pharr 138 kV transmission line
 - b. the 138 kV meter and metering facilities on AEP's Closner (via SE Edinburg) 138 kV transmission line
 - c. the Supervisory Control and Data Acquisition (SCADA) remote terminal units (RTUs) and associated facilities
 - d. the breakers (7790 and 7900) and associated relays and facilities
 - e. the 138 kV switches (7789, 7791, 7899 and 7901) and associated facilities
 - f. the 138 kV switch (7143) and associated facilities
 - B. STEC agrees that it owns the following facilities:**
 - a. the STEC Substation and all the facilities within it, except for those facilities identified as being owned by AEP above
- 9. Facility Operation Responsibilities of the Parties:**

Each Party operates all the facilities it owns
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**
 - A. 12.1** AEP has access to the STEC Substation with a lock in the entrance gates
 - B. 12.2** AEP has access to STEC's control house.

FACILITY SCHEDULE NO. 37 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 38

- 1. Name:** North Edinburg 69
- 2. Facility Location:** AEP's North Edinburg Substation ("AEP Substation") is located on the northwest side of the Monte Cristo Road (FM 1925) and McColl Road intersection in Edinburg, Texas, in Hidalgo County. The Point of Interconnection is at the AEP Substation dead-end structure where STEC's Faysville Tap 69 kV transmission line terminates. More specifically, the Point of Interconnection is where AEP's jumpers from the AEP Substation equipment physically connects to STEC's transmission conductors terminating at the AEP Substation dead-end structure.
- 3. Delivery Voltage:** 69kV
- 4. Metered Voltage:** 69kV, line monitoring meter
- 5. Loss Adjustment Due To Meter Location:** No
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Substation and all the facilities within it, except for those facilities identified as being owned by STEC below
 - B. STEC agrees that it owns the following facilities:**
 - a. the fiber communications facilities used for STEC communication
 - b. the Faysville Tap 69 kV transmission line terminating at AEP's dead-end structure within the AEP Substation
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party operates all the facilities it owns.
 - B.** STEC may operate the 69 kV breaker (3390) upon approval from AEP's dispatch.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**
 - A.** STEC has access to the AEP Substation with a lock in the entrance gate(s)
 - B.** STEC has access to AEP's control house.

ENTIRE STATION OWNED
& OPERATED BY AEP
EXCEPT AS NOTED

APP'D BY : CJC		DR. BY : T. TRAN		NORTH EDINBURG NO. 1004		69/12KV	
DATE : 01/23/11		CH. BY : CJC		DATE : 01/23/11		DISPATCH ONE LINE	
1 RIVERSIDE PLAZA COLUMBUS, OH 43215		Work Order #: 42124809		DWG. No. 1004SO03		REV 11	

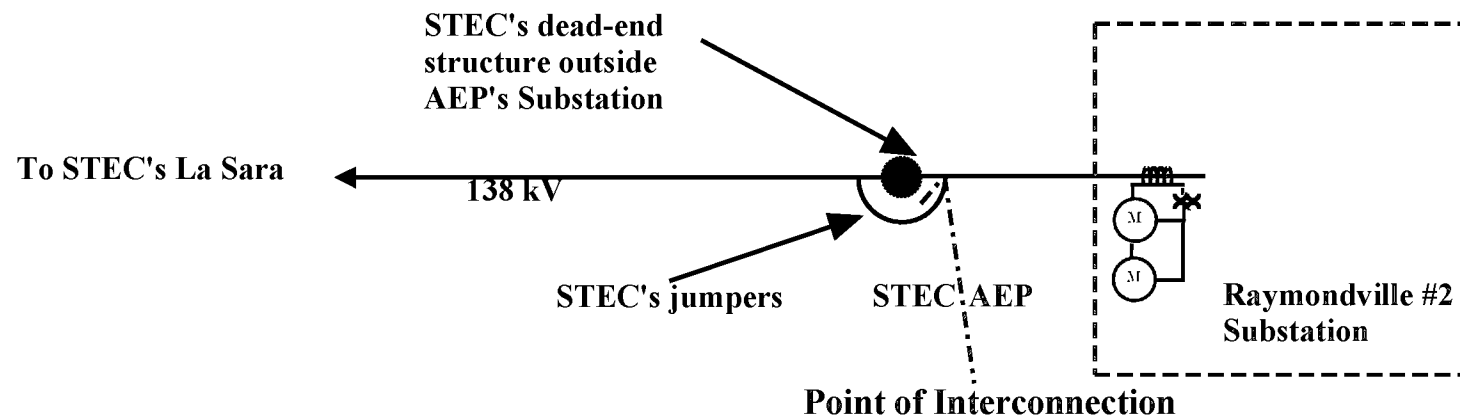
FACILITY SCHEDULE NO. 39

- 1. Name:** **Raymondville #2**
- 2. Facility Location:** AEP's Raymondville #2 Substation ("AEP Substation") is approximately one (1) mile east of the FM 186 and Hwy 77 Bypass intersection near Raymondville, Willacy County, Texas. The Point of Interconnection will be outside the AEP Substation fence at STEC's dead-end structure that terminate STEC's 138 kV transmission line from STEC's Raymondville Tap. More specifically, the Point of Interconnection is where STEC's jumper conductors physically connect to AEP's conductors from the AEP Substation.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV within AEP's Substation
- 5. Loss Adjustment Due To Meter Location:** No
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Substation and all the facilities within it
 - b. one (1) span of 138 kV transmission line from the AEP Substation to STEC's dead-end structure outside the AEP Substation fence
 - c. the 138 kV metering and metering facilities within the AEP Substation to meter STEC's 138 kV transmission line
 - B. STEC agrees that it owns the following facilities:**
 - a. the La Sara 138 kV transmission line
 - b. the dead-end structure outside the AEP Substation that terminates the 138 kV La Sara transmission line
 - c. the jumpers at the dead-end structure outside the AEP Substation
- 9. Facility Operation Responsibilities of the Parties:**

Each Party operates all the facilities it owns.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for the maintenance of the facilities it owns.
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:** None

FACILITY SCHEDULE NO. 39 (continued)
One-Line Diagram



———— STEC-Owned Facilities
———— AEP-Owned Facilities

Distances as shown are conceptual and not to scale;
facilities are not shown completely.

FACILITY SCHEDULE NO. 40

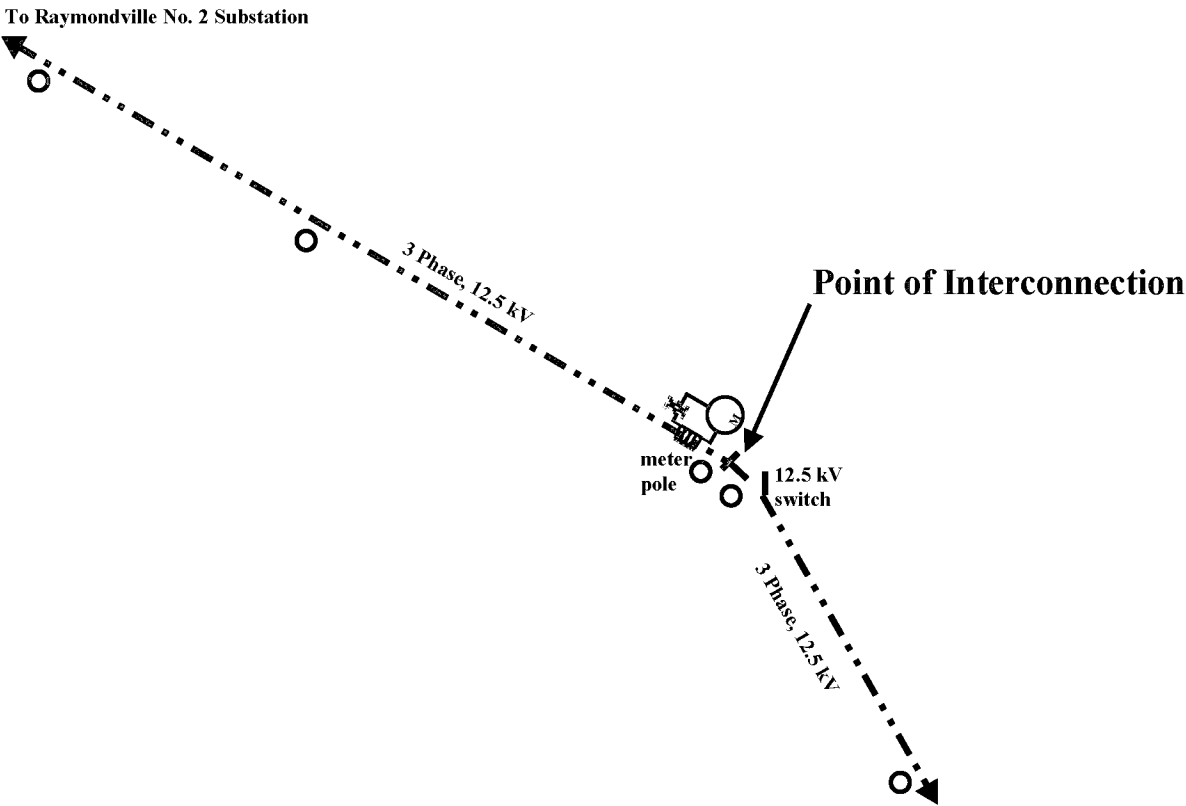
- 1. Name:** Port Mansfield Tie Line
- 2. Facility Location:** The Point of Interconnection (“POI”) is located at AEP’s meter pole on the East Ranch, on AEP’s last 12.5 kV distribution feeder pole, approximately 20 miles east of AEP’s Raymondville #2 Substation Kennedy County, Texas. The POI is where AEP’s jumpers from AEP’s meter pole physically connect to STEC’s 12.5 kV conductors terminating on AEP’s meter pole.
- 3. Delivery Voltage:** 12.5 kV
- 4. Metered Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** No
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the meter and metering facilities.
 - b. the meter pole
 - c. the distribution feeder servicing the POI
 - B. STEC agrees that it owns the following facilities:**
 - a. the switch that isolates its portion of the 12.5 kV distribution circuit
 - b. the remote terminal unit (RTU) and communication facilities
 - c. the 12.5 kV distribution line terminating past the POI.
- 9. Facility Operation Responsibilities of the Parties:**



Each Party will operate those facilities it owns
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:** None

FACILITY SCHEDULE NO. 40 (continued)
One-Line Diagram

Conceptual One-line Drawing of Point of Interconnection



Company 
Cooperative 

Conceptual Drawing
Not to scale

FACILITY SCHEDULE NO. 41

- 1. Name:** **Rangerville (STEC)**
- 2. Facility Location:** STEC's Rangerville Substation ("STEC Substation") is located at 18669 FM 800, Rangerville, Texas, in Cameron County. There are two (2) Points of Interconnection within the STEC Substation at 1) STEC's disconnect switch (22152) where AEP's 138 kV rigid bus tubing from switches (1186 and 1222) terminate, and 2) STEC's disconnect switch (22162) where AEP's 138 kV 138 kV rigid bus tubing from switches (1181 and 1222) terminate. More specifically, the Points of Interconnection is where the jumpers from STEC's disconnect switches (22152 and 22162) physically connects to AEP's 138 kV rigid bus tubing.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 12.5 kV (two sets of 12.5 kV meters)
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the STEC Substation and all the facilities within it, excluding those facilities identified as being owned by AEP herein below
 - b. two (2) 138 kV disconnect switches (22162 and 22152)
 - c. two (2) 138 kV circuit switchers (22161 and 22151)
 - d. two (2) distribution 138/12.5 kV transformers
 - e. the distribution facilities
 - B. AEP agrees that it owns the following facilities:**
 - a. the Supervisory Control and Data Acquisition (SCADA) monitoring and operating facilities
 - b. the 138 kV Weslaco transmission line connected to AEP's dead-end structure within the STEC Substation
 - c. the 138 kV La Palma transmission line connected to AEP's dead-end structure within the STEC Substation
 - d. the relaying for the Weslaco 138 kV transmission line
 - e. the relaying for the La Palmas 138 kV transmission line
 - f. the high-side through-path facilities in the Weslaco to La Palma 138 kV transmission line that consists of the following:
 1. two (2) 138 kV terminals and associated rigid bus tubing, arrestors, wave traps, steel, foundations, conduit, wiring, and grounding
 2. two (2) in-line breakers (1180 and 1185) and associated foundations, conduit, control wiring, and grounding
 3. seven (7) 138 kV CCVTs and associated steel, foundations, grounding, conduit, and control wiring
 4. the four (4) in-line switches (1179, 1181, 1186 and 1184) and associated steel, foundations, grounding and operating platforms

5. the bus tie switch (1222) between the two breakers (1180 and 1185) and associated steel, foundations, grounding and operating platforms
6. the protection and control panels below, including associated wiring:
 - a. two (2) transmission line panels
 - b. one (1) bus differential panel
 - c. one (1) panel/rack with remote terminal unit
 - d. one (1) metering panel
 - e. station computer

9. Facility Operation Responsibilities of the Parties:

Each Party will operate those facilities it owns

10. Facility Maintenance Responsibilities of the Parties:

Each Party is responsible for the maintenance of the facilities it owns.

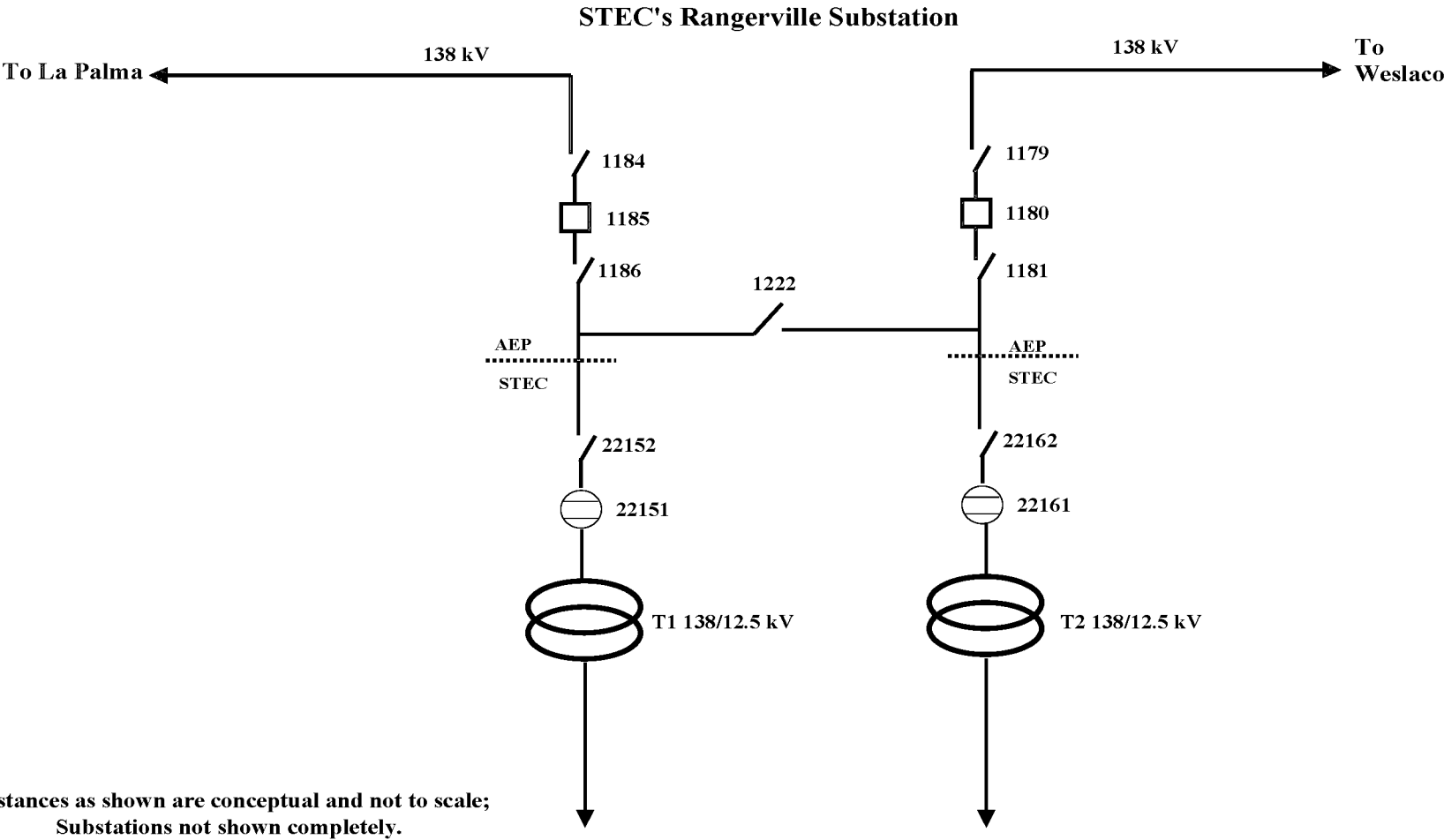
11. Estimated Peak Load: N/A

12. Other Terms and Conditions:

- A.** AEP has access to the STEC Substation with a lock in the entrance gate
- B.** AEP has access to the STEC Substation control house.

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FACILITY SCHEDULE NO. 41 (continued)
One-Line Diagram



———— AEP Owned Facilities
———— STEC Owned Facilities

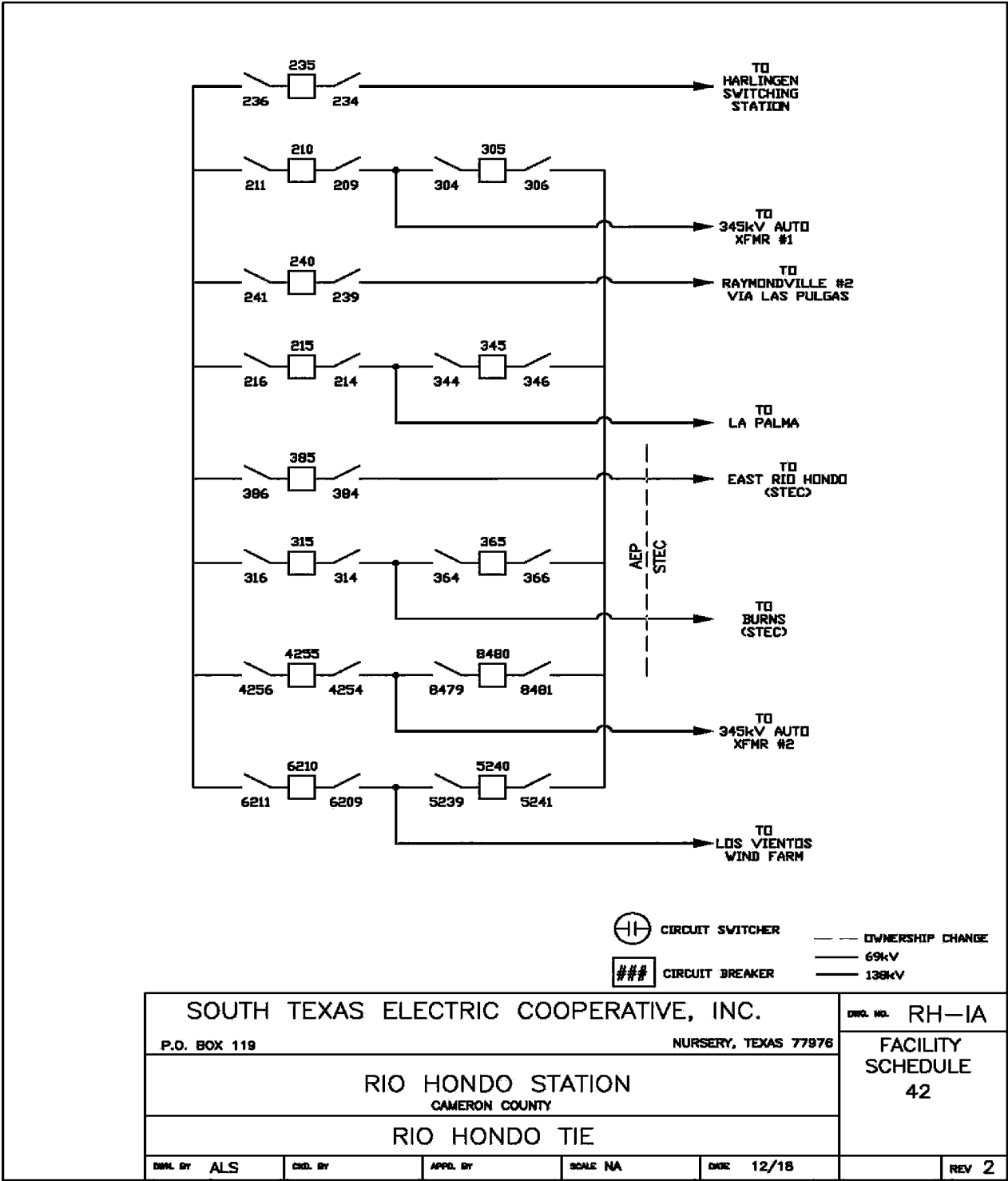
FACILITY SCHEDULE NO. 42

- 1. Name:** **Rio Hondo**
- 2. Facility Location:** AEP's Rio Hondo Switching Station ("AEP Station") is located west of Searcy Road and north of Rio Hondo, Texas, in Cameron County. There are two (2) Points of Interconnection within the AEP Station at 1) the AEP Station dead-end structure where STEC's 138 kV Burns transmission line terminates, and 2) the AEP Station dead-end structure where STEC's 138 kV East Rio Hondo transmission line terminates. More specifically, the Points of Interconnection are where AEP's jumpers from the AEP Station equipment physically connects to STEC's transmission conductors terminating at the AEP Station dead-end structure.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV, line monitoring meter
- 5. Loss Adjustment Due To Meter Location:** No
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Station and all the facilities within it, except for those facilities identified as being owned by STEC below
 - B. STEC agrees that it owns the following facilities:**
 - a. the Supervisory Control and Data Acquisition (SCADA) monitoring facilities
 - b. the fiber and radio communications facilities associated with STEC equipment
 - c. the Burns 138 kV transmission line that terminate at the AEP Station dead-end structure within the AEP Station
 - d. the East Rio Hondo 138 kV transmission line that terminate at the AEP Station dead-end structure within the AEP Station
- 9. Facility Operation Responsibilities of the Parties:**

Each Party operates all the facilities it owns.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**
 - A.** STEC has access to the AEP Station with a lock in the entrance gate(s)
 - B.** STEC has access to AEP's control house.

FACILITY SCHEDULE NO. 42 (continued)
One-Line Diagram

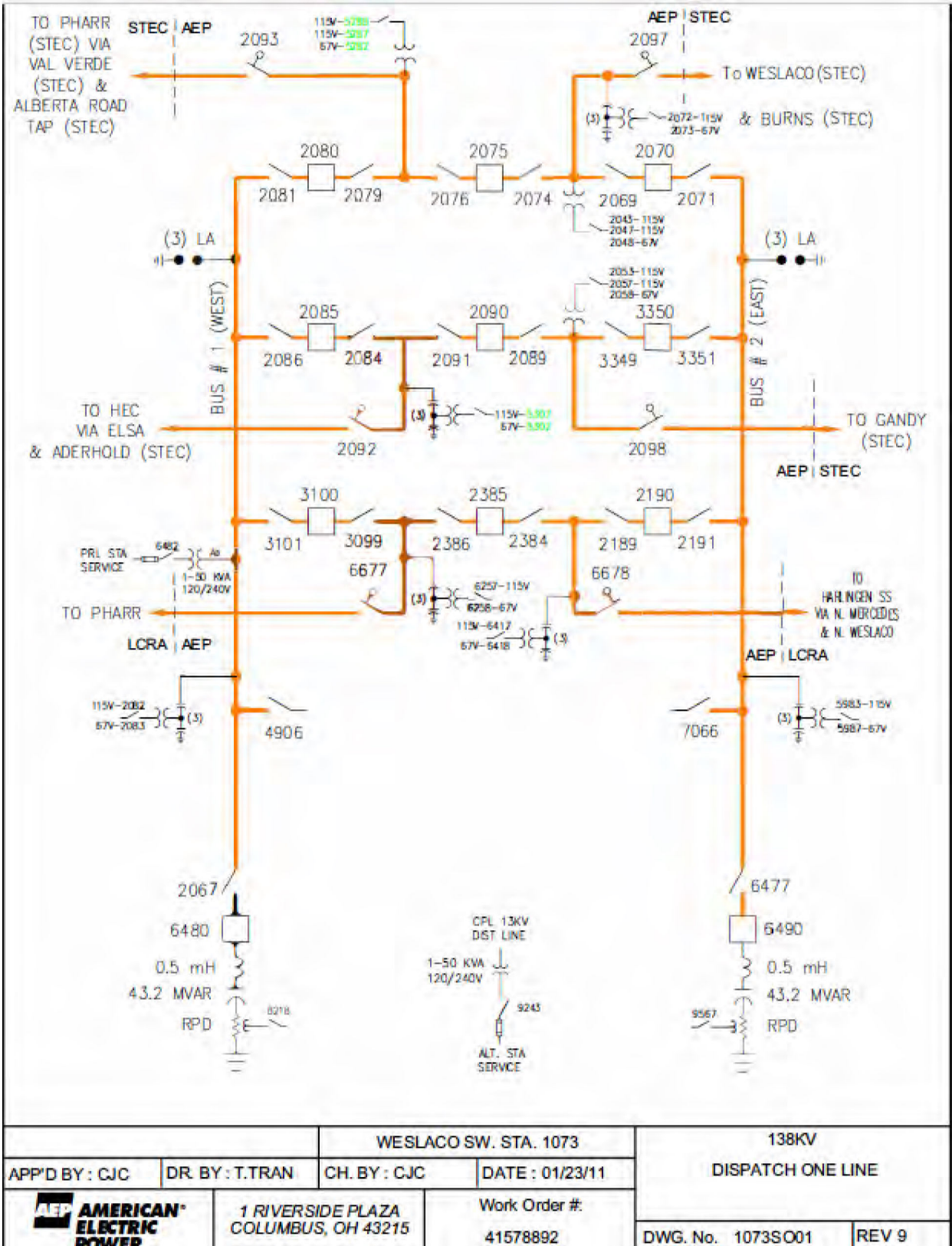


FACILITY SCHEDULE NO. 43

- 1. Name:** **Weslaco**
- 2. Facility Location:** AEP's Weslaco Switching Station ("AEP Station") is near the intersection of Mile 6 West and Minnesota Roads near Weslaco, Texas, in Hidalgo County. There are three (3) Points of Interconnection within the AEP Station at 1) the termination of STEC's 138 kV transmission line from STEC's Weslaco station, 2) the termination of STEC's 138 kV transmission line from STEC's Gandy station, and 3) the termination of STEC's 138 kV transmission line from STEC's Val Verde station. More specifically the Points of Interconnection are where the jumper conductors from the AEP Station's 138 kV bus facilities physically contact the 138 kV transmission line conductors.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV, line monitoring meter
- 5. Normal Operation of Interconnection:** Closed
- 6. Loss Adjustment Due To Meter Location:** No
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. Supervisory Control and Data Acquisition (SCADA) monitoring and control facilities and associated fiber and radio communications facilities
 - b. the AEP Station and all the facilities within it, except for those facilities identified as being owned by STEC below.
 - B. STEC agrees that it owns the following facilities:**
 - a. the 138 kV transmission lines to its Val Verde, Weslaco, and Gandy substations that connect to AEP's dead-end structures within this AEP Station.
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns
 - B.** STEC may operate 138 kV breakers (2070, 2075, 2080, 2090 and 3350) upon approval from AEP dispatch.
 - C.** STEC may operate motor operated air switches (2093, 2097 and 2098) upon approval from AEP dispatch.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for the maintenance of the facilities it owns
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**
 - A.** STEC has access to the AEP Station with a lock in the entrance gate(s)
 - B.** STEC has access to the AEP Station control house.

FACILITY SCHEDULE NO. 43 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 44

- 1. Name:** **Coffee Port**
- 2. Facility Location:** AEP's Coffee Port Substation ("AEP Substation") is located on Coffee Port Road between Hwy 802 and Hwy 48 just north of Brownsville, Texas, in Cameron County. There are two (2) Points of Interconnection within the AEP Substation at 1) the AEP Substation dead-end structure where STEC's Hwy 511 138 kV transmission line terminates, and 2) the AEP Substation dead-end structure where STEC's Central Avenue 138 kV transmission line terminates. More specifically, the Points of Interconnection is where AEP's jumpers from the AEP Substation equipment physically connects to STEC's transmission conductors terminating at the AEP Substation dead-end structure.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 12.5 kV
- 5. Loss Adjustment Due to Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Substation and all the facilities within it, except for those facilities identified as being owned by STEC below
 - B. STEC agrees that it owns the following facilities:**
 - a. the Supervisory Control and Data Acquisition (SCADA) monitoring, control facilities, and associated communications facilities that are associated with STEC equipment
 - b. the Hwy 511 138 kV transmission line that terminate at the AEP Substation dead-end structure within the AEP Substation
 - c. the Central Avenue 138 kV transmission line that terminate at the AEP Substation dead-end structure within the AEP Substation
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** STEC may operate the capacitor bank switch (3446) which have dual lock capability upon approval from AEP dispatch.
 - B.** STEC may operate switches (1073, 1077, and 1083) upon approval from AEP dispatch with the use of dual locks.
 - C.** Each Party operates all the facilities it owns
- 10. Facility Maintenance Responsibilities of the Parties:**

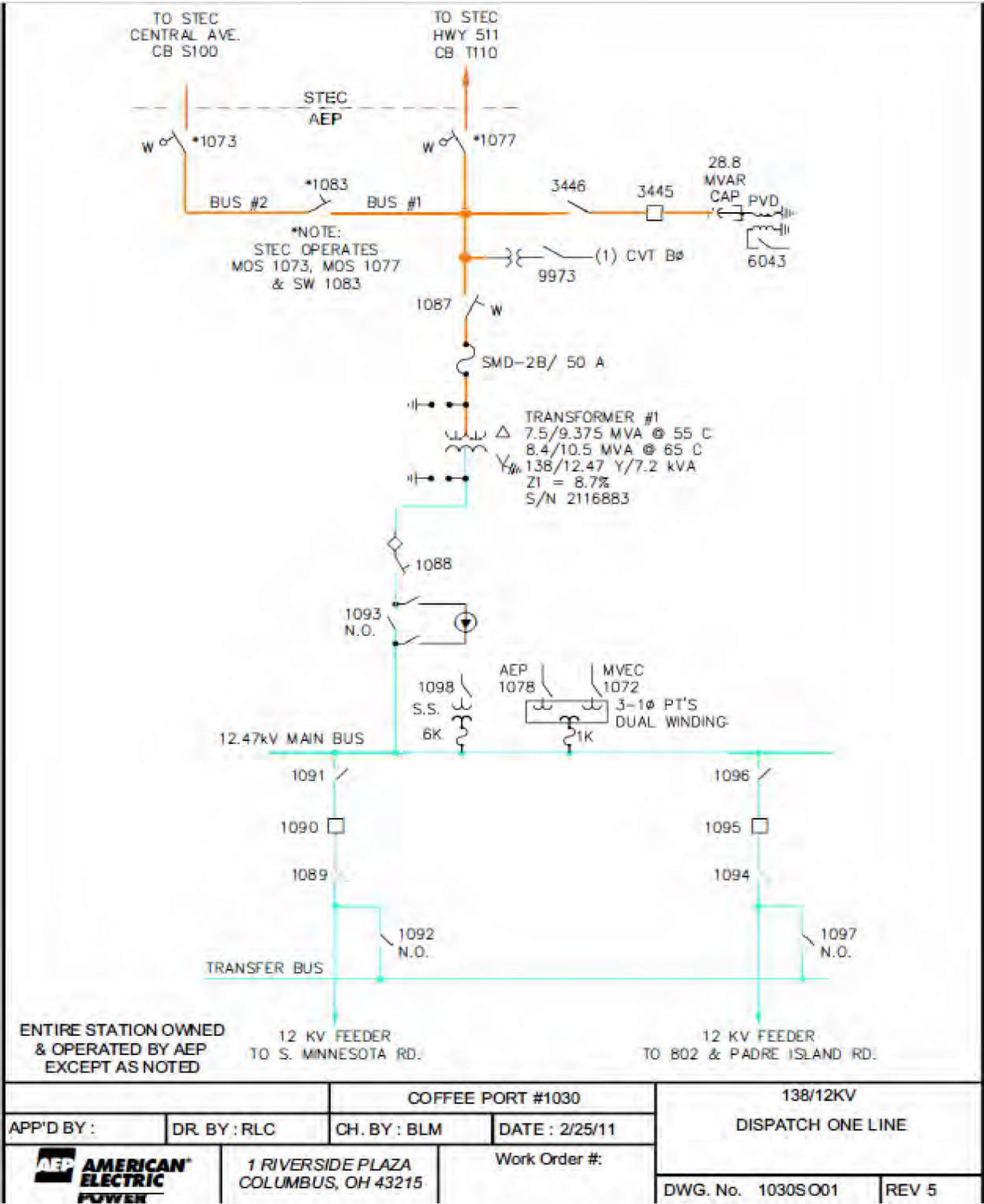
Each Party is responsible for maintenance of the facilities it owns
- 11. Estimated Peak Load:** N/A

12. Other Terms and Conditions:

- A.** STEC has access to the AEP Substation with a lock in the entrance gate(s)
- B.** STEC and access to AEP's control house.

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FACILITY SCHEDULE NO. 44 (continued)
One-Line Diagram

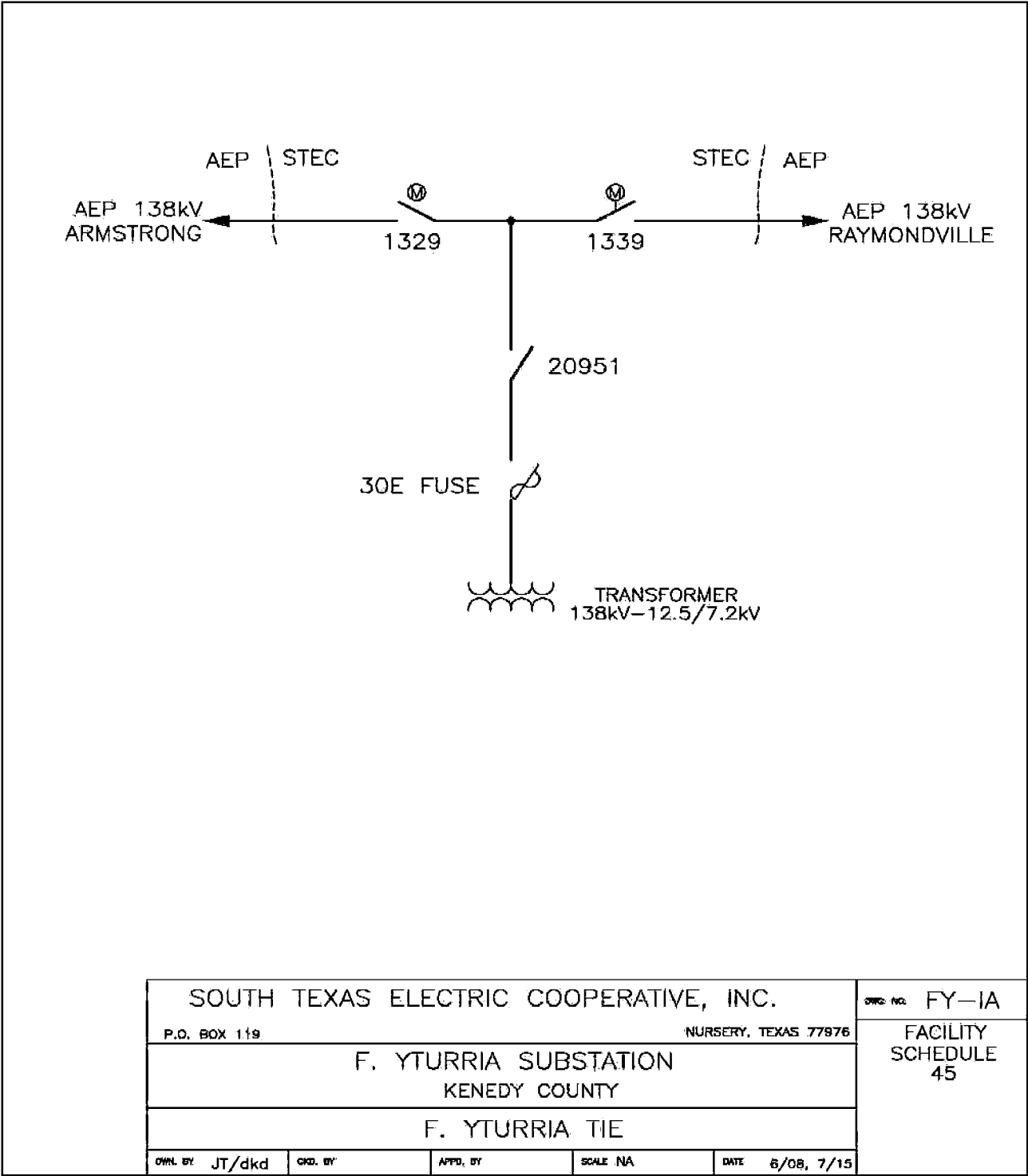


FACILITY SCHEDULE NO. 45

- 1. Name:** **F. Yturria**
- 2. Facility Location:** STEC's F. Yturria Substation ("STEC Substation") is located at 113 CR 4132, Raymondville, Texas, in Kenedy County, approx. 11 miles north of Raymondville on Highway 77. There are two (2) Points of Interconnection within the STEC Substation at 1) the STEC Substation dead-end structure where AEP's Armstrong 138 kV transmission line terminates, and 2) the STEC Substation dead-end structure where AEP's Raymondville #2 138 kV transmission line terminates. More specifically, the Points of Interconnection are where STEC's jumpers from the STEC Substation equipment physically connects to AEP's transmission conductors terminating at the STEC Substation dead-end structure.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the radio communication facilities to communicate with STEC Supervisory Control and Data Acquisition (SCADA) remote terminal unit (RTU)
 - b. the Armstrong 138 kV transmission line that terminate on the STEC Substation dead-end structure
 - c. the Raymondville #2 138 kV transmission line that terminate on the STEC Substation dead-end structure
 - B. STEC agrees that it owns the following facilities:**
 - a. the STEC Substation and all the facilities within it, except for those facilities identified as being owned by AEP above
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** AEP may operate the switches (1329 and 1339) upon approval from STEC's dispatch.
 - B.** Each Party operates all the facilities it owns
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**
 - A.** AEP has access to the STEC Substation with a lock in the entrance gate(s)
 - B.** AEP access to STEC's control house.
 - C.** The Parties shall have dual locks on switches (1329 and 1339).

FACILITY SCHEDULE NO. 45 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 46

- 1. Name:** **Aderhold**
- 2. Facility Location:** STEC's Aderhold Substation ("STEC Substation") is located at 7318 East Mile 17 North, Edinburg, in Hidalgo County near the intersection of Monte Cristo Road and Sharp Road near San Carlos. There are two (2) Points of Interconnection at 1) STEC's dead-end structure where AEP's North Edinburg 138 kV transmission line terminate, and 2) the dead-end structure where AEP's Elsa 138 kV transmission line terminate. More specifically, the Points of Interconnection are where AEP's jumpers physically connect to STEC's transmission conductors terminating at the dead-end structure located 1.6 miles from the substation.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the 1.6 mile hairpin 138 kV double circuit transmission line including the dead-end structure in AEP's North Edinburg to Elsa 138 kV transmission line to the STEC Substation.
 - b. the STEC Substation and all the facilities within it, except for those facilities identified as being owned by AEP below.
 - B. AEP agrees that it owns the following facilities:**
 - a. the North Edinburg 138 kV transmission line that terminate at the STEC dead-end structure
 - b. the Elsa 138 kV transmission line that terminate at the STEC dead-end structure
 - c. the radio facilities including antenna pole for communications with STEC's remote terminal unit (RTU)
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns
 - B.** AEP may operate the 138 kV breakers (20110 and 20120) upon approval from STEC's dispatch.
- 10. Facility Maintenance Responsibilities of the Parties:**

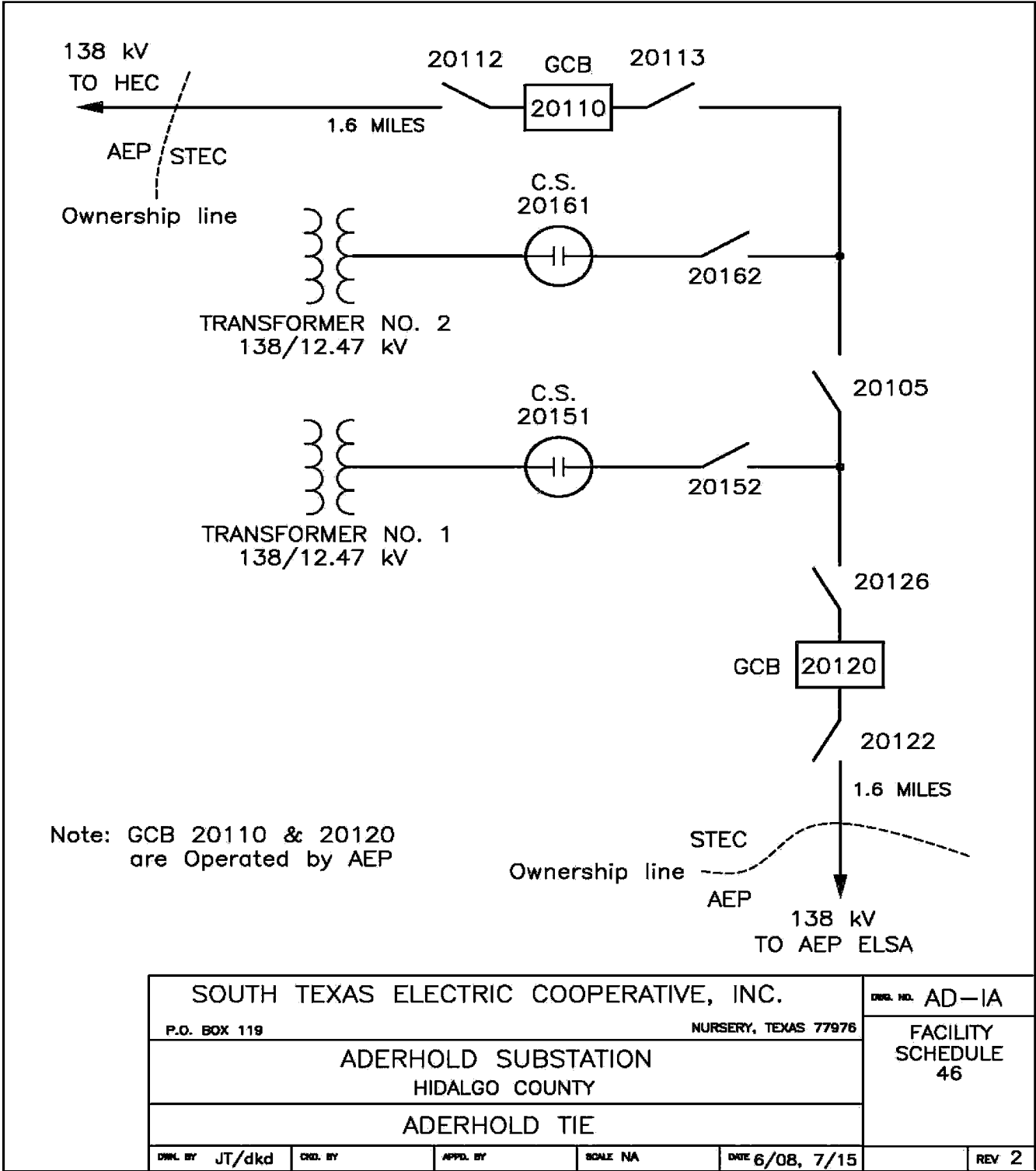
Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** N/A

12. Other Terms and Conditions:

- A.** AEP has access to the STEC Substation with a lock in the entrance gate(s)
- B.** AEP has access to STEC's control house.
- C.** Each Party will provide their own Supervisory Control and Data Acquisition (SCADA) communication circuit from the STEC Substation to their respective Control Centers.

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FACILITY SCHEDULE NO. 46 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 47

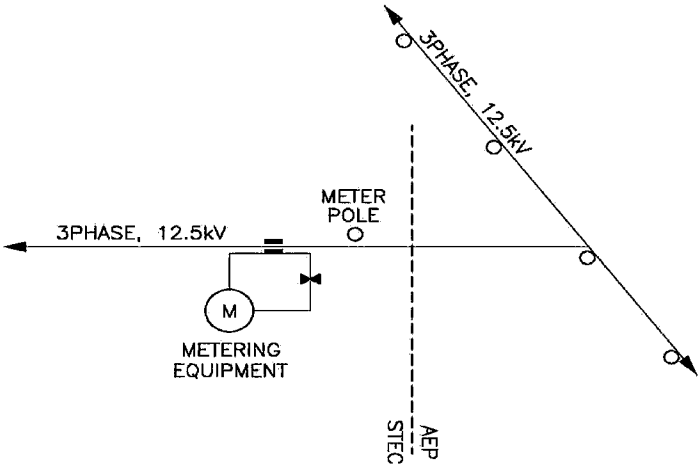
- 1. Name:** **Greta Tie Line**
- 2. Facility Location:** The Greta Tie Line Point of Interconnection (“POI”) is located near Quintana Road and Hwy 59 intersection, approximately 11 miles northeast of Refugio, Texas, in Refugio County. More specifically, the POI is where the AEP jumpers from the 12.5 kV distribution feeder physically connect to the STEC 12.5 kV isolation device at the meter pole.
- 3. Delivery Voltage:** 12.5 kV
- 4. Metering Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the 12.5 kV distribution feeder, conductors, cross-arm, hardware, and the connections to the top of the isolation device.
 - B. STEC agrees that it owns the following facilities:**
 - a. the meter pole
 - b. the equipment mounted on the meter pole associated with metering and switching the POI
 - c. the 12.5 kV distribution facilities on the load-side of the POI
- 9. Facility Operation Responsibilities of the Parties:**

Each Party will operate those facilities it owns.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:** None

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FACILITY SCHEDULE NO. 47 (continued)
One-Line Diagram



SOUTH TEXAS ELECTRIC COOPERATIVE, INC.					DWG. NO. GR-1A
P.O. BOX 119			NURSERY, TEXAS 77976		
GRETA TIE					ONE-LINE GRETA TIE
JIM WELLS COUNTY					
DWN. BY	ALS	CKD. BY	APPD. BY	SCALE	DATE 11-14-2018

FACILITY SCHEDULE NO. 48

(TERMINATED)

- 1. Name:** **Capehart Tie Line**
- 2. Facility Location:** Near S. Emily Drive and US 181 intersection on outskirts of Beeville,
Texas

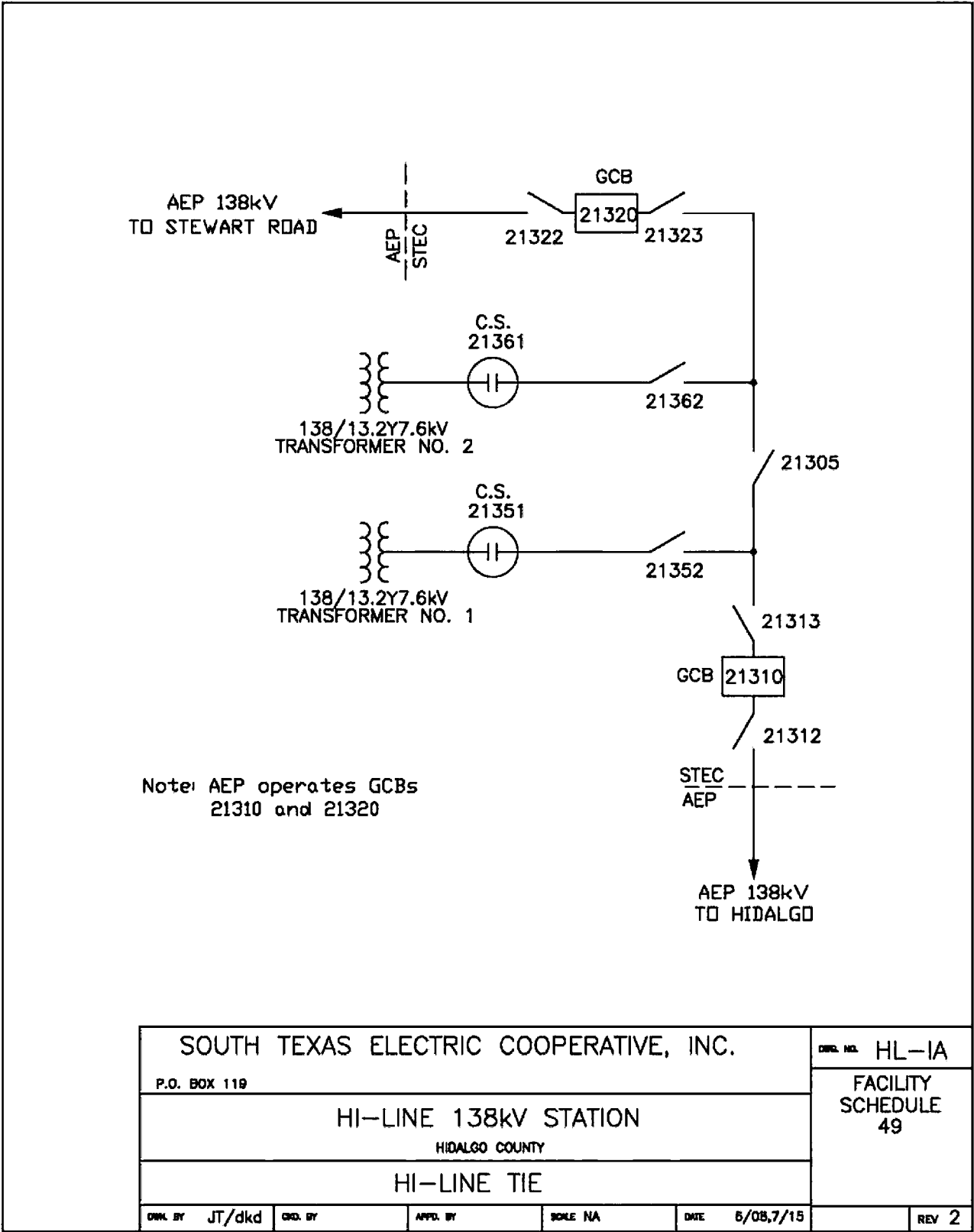
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FACILITY SCHEDULE NO. 49

- 1. Name:** **Hi-Line**
- 2. Facility Location:** STEC's Hi-Line Substation ("STEC Substation") is located at 1121 W. Highline Road, Pharr, Texas, in Hidalgo County. There are two (2) Points of Interconnection at 1) STEC's dead-end structure where AEP's Hidalgo 138 kV transmission line terminate, and 2) STEC's dead-end structure where AEP's Stewart Road 138 kV transmission line terminate. More specifically, the Points of Interconnection are where the STEC jumpers physically connect to AEP's transmission conductors terminating at STEC's dead-end structure.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the STEC Substation and all the facilities within it, except for those facilities identified as being owned by AEP below
 - B. AEP agrees that it owns the following facilities:**
 - a. a remote terminal unit (RTU) and associated communications facilities
 - b. the Hidalgo 138 kV transmission line that terminate on STEC's dead-end structure
 - c. the Stewart Road 138 kV transmission line that terminate on STEC's dead-end structure
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns
 - B.** AEP may operate breakers (21310 and 21320) upon approval from STEC's dispatch.
 - C.** AEP may operate switches (21322, 21323, 21305, 21313 and 21312) upon approval from STEC's dispatch.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**
 - A.** AEP has access to the STEC Substation with a lock in the entrance gate(s)
 - B.** AEP has access to STEC's control house.

FACILITY SCHEDULE NO. 49 (continued)
One-Line Diagram

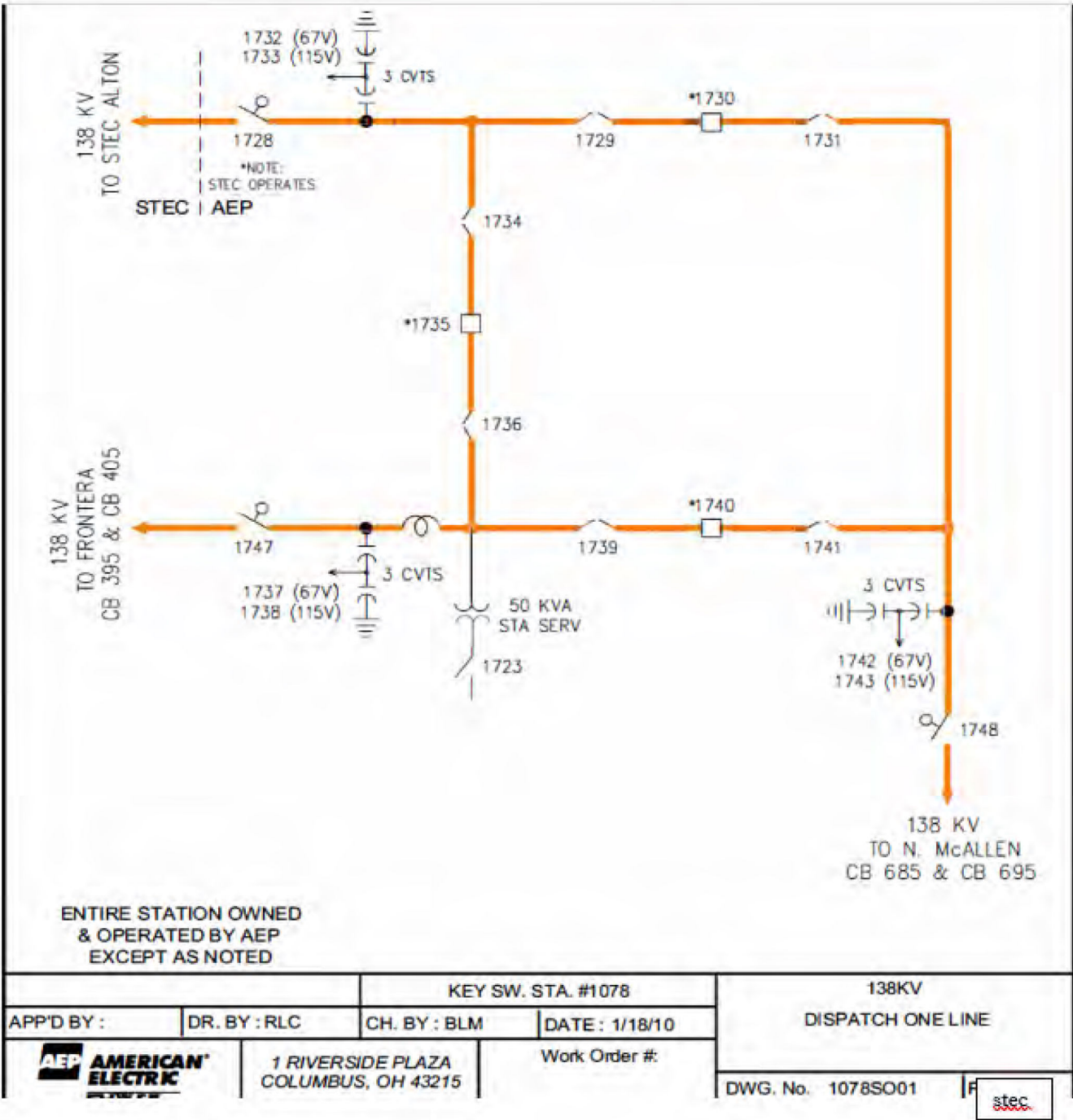


FACILITY SCHEDULE NO. 50

- 1. Name:** **Key**
- 2. Facility Location:** AEP's Key Switching Station ("AEP Station") is located on Mile 3 Road between Stewart and Bryan Roads approximately 5 miles northwest of McAllen, Texas, in Palmhurst, Texas, in Hidalgo County. The Point of Interconnection is at AEP's dead-end structure where STEC's Alton 138 kV transmission line terminate. More specifically, the Point of Interconnection is where AEP's jumpers physically connect to STEC's transmission conductors terminating at AEP's dead-end structure.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV
- 5. Loss Adjustment Due To Meter Location:** None
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Station and all the facilities within it, except for those facilities identified as being owned by STEC below
 - b. the 138 kV meter and metering facilities to meter STEC's Alton 138 kV transmission line
 - B. STEC agrees that it owns the following facilities:**
 - a. the Alton 138 kV transmission line that terminate on AEP's dead-end structure within the AEP Station
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns
 - B.** STEC may operate motor operated disconnect switch (1728), thru use of dual locks, upon approval from AEP dispatch.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**
 - A.** STEC has access to the AEP Station with a lock in the entrance gate(s)
 - B.** STEC has access to AEP's control house.

FACILITY SCHEDULE NO. 50 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 51

- 1. Name:** **Laureles**
- 2. Facility Location:** STEC's Laureles Substation ("STEC Substation") is located at 30064 Adams Road, San Benito, Texas, in Cameron County. There are two (2) Points of Interconnection at 1) STEC's dead-end structure where AEP's La Palma 138 kV transmission line terminate, and 2) STEC's dead-end structure where AEP's Marconi 138 kV transmission line terminate. More specifically, the Points of Interconnection are where STEC's jumpers physically connect to AEP's transmission conductors terminating on STEC's dead-end structures.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the STEC Substation and all the facilities within it, except for those facilities identified as being owned by AEP below
 - B. AEP agrees that it owns the following facilities:**
 - a. the La Palma 138 kV transmission line that terminate on STEC's dead-end structure within the STEC Substation
 - b. the Marconi 138 kV transmission line that terminate STEC's dead-end structure within the STEC Substation
 - c. a remote terminal unit (RTU) and associated communications facilities
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns
 - B.** AEP may operate the 138 kV circuit breakers (21710 and 21720) upon approval from STEC's dispatch
 - C.** AEP may operate the 138 kV disconnect switches (21712, 21713, 21723, 21722 and 21705) with use of dual locks, upon approval from STEC's dispatch.
- 10. Facility Maintenance Responsibilities of the Parties:**

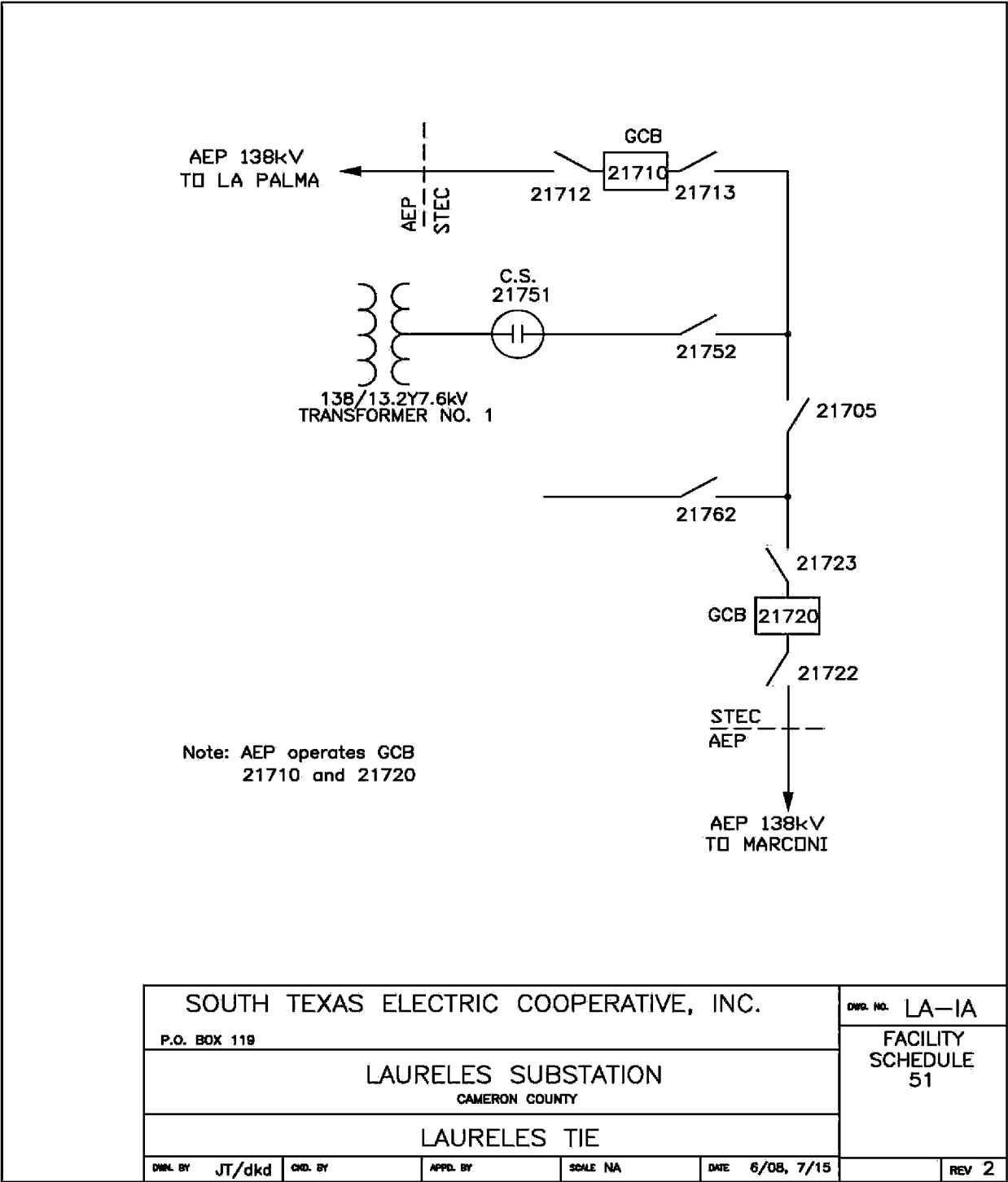
Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** N/A

12. Other Terms and Conditions:

- A.** AEP has access to the STEC Substation with a lock in the entrance gate(s)
- B.** AEP has access to STEC's control house.

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FACILITY SCHEDULE NO. 51 (continued)
One-Line Diagram



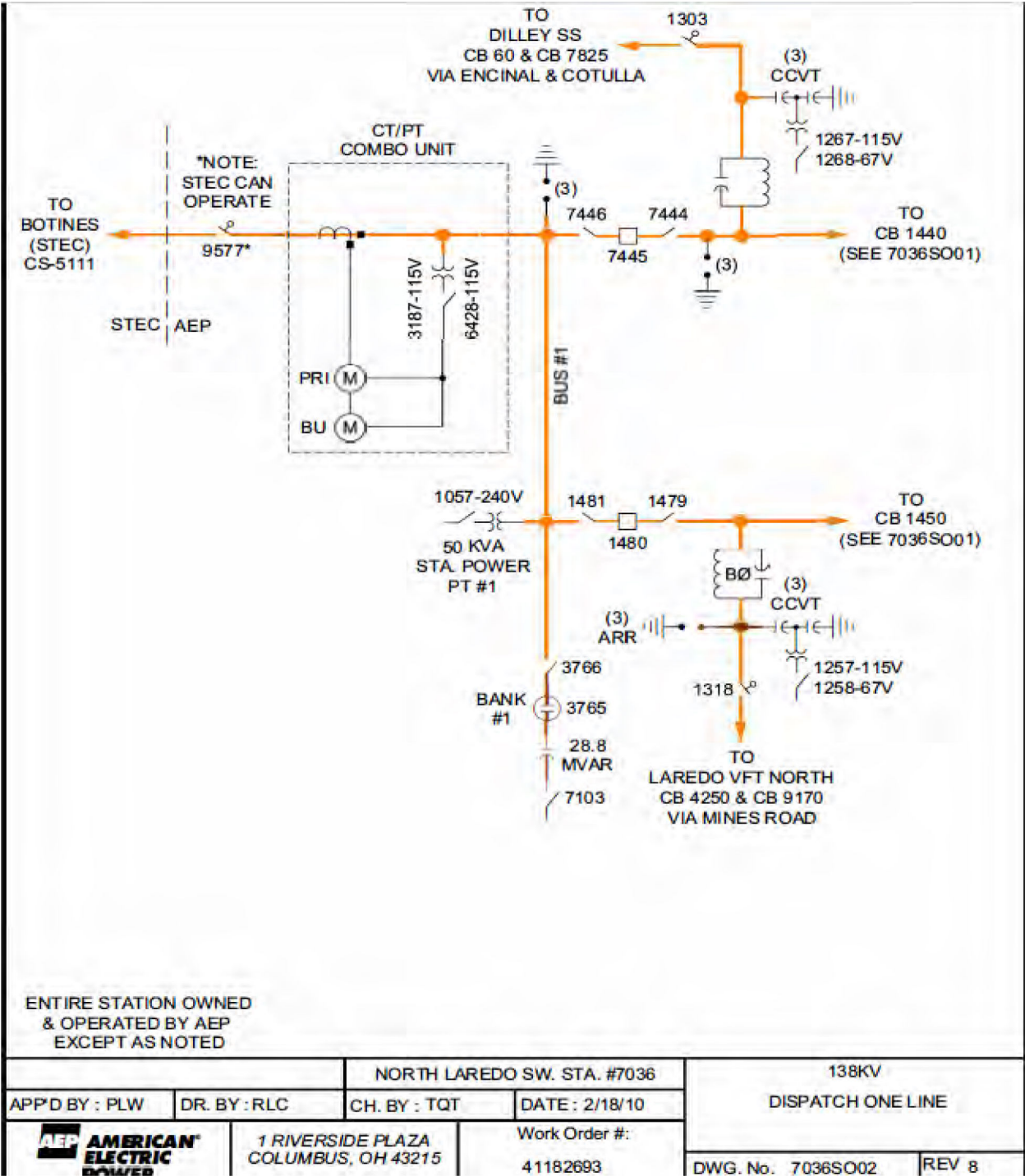
FACILITY SCHEDULE NO. 52

- 1. Name:** North Laredo
- 2. Facility Location:** AEP's North Laredo Switching Station ("AEP Station") is located at 13434 IH 35, Laredo, Texas, in Webb County. The Point of Interconnection is at the AEP's dead-end structure where STEC's Botines 138 kV transmission line terminate. More specifically, the Point of Interconnection is where the AEP jumpers physically connect to STEC's transmission conductors terminating at AEP's dead-end structure.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Station and all the facilities within it
 - b. the dead-end structure that terminates STEC's Botines 138 kV transmission line
 - c. the jumpers from the STEC tensioned conductor to the AEP Station equipment.
 - d. the 138 kV metering and metering facilities within the AEP Station
 - B. STEC agrees that it owns the following facilities:**
 - a. the Botines 138 kV transmission line that terminate on AEP's Station dead-end structure.
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns.
 - B.** STEC may operate 138 kV switch (9577) upon approval from AEP's dispatch.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**

STEC has access to the AEP Substation with a lock in the entrance gate(s).

FACILITY SCHEDULE NO. 52 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 53**(TERMINATED)**

- 1. Name:** **Franklins Camp**
- 2. Facility Location:** STEC's Franklins Camp Substation ("STEC Substation") is located at 5565 FM 2918, Churchill, Texas, in Brazoria County. The Point of Interconnection is solely a revenue class meter measuring the 138 kV flow at the STEC substation.

FACILITY SCHEDULE NO. 54

- 1. Name:** Lyssy
- 2. Facility Location:** The Lyssy Substation (“STEC Substation”) is located at 9507 FM 791, Falls City, Karnes County, Texas. The Substation is connected to AEP’s Pleasanton to Kenedy 138 kV transmission line approximately 22.55 transmission miles east of the Pleasanton substation and approximately 17.45 transmission miles west of the Kenedy switch station. There is one (1) Point of Interconnection within the STEC Substation at the line-side of the 138 kV disconnect switch (11112) of transformer No. 1 (“T-1”). More specifically the Point of Interconnection is where the conductors from AEP’s 138 kV bus facilities physically contact the 138 kV disconnect switch.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 24.9 kV
- 5. Loss Adjustment Due To Meter Location:** Yes, transformer loss compensation
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. Control house with cable trays in the concrete floor
 - b. The transformer (T-1) and associated high-side 138 kV disconnect switch (11112) and high-side 138 kV circuit switcher (11111)
 - c. One (1) set of three multi-ratio, tank mounted, CTs in the primaries of T-1 for AEP use in bus differential protection
 - d. Transformer differential and distribution bus and feeder relaying
 - e. All 24.9 kV distribution facilities including the metering instrument transformers
 - f. Property, fencing, ground grid
 - g. Remote terminal unit (RTU) and associated communications facilities
 - h. Substation service facilities
 - i. All other facilities not specified or specifically associated with the items listed below as AEP property
 - B. AEP agrees that it owns the following facilities:**
 - a. the Pleasanton to Lyssy and the Lyssy to Kenedy 138 kV transmission lines
 - b. the 138 kV breaker (1130) and 138 kV switches (2033, 1129 and 1131) on the Kenedy 138 kV transmission line and associated relaying facilities
 - c. the 138 kV breaker (1070) and 138 kV switches (2163, 1069 and 1071) on the Pleasanton 138 kV transmission line and associated relaying facilities
 - d. 125 VDC battery back-up system (batteries, AC/DC panel, charger, rack and accessories) within STEC’s control house

- e. 138 kV bus differential protection
- f. all control cables required for the control and protection of the AEP-owned 138 kV facilities including cables for the operation of the motor operated line switches (2033 and 2163)
- g. RTU and associated communications facilities
- h. Metering facilities located in the control house connected to the secondary wiring of STEC's instrument transformers
- i. Power potential transformer for station service

9. Facility Operation Responsibilities of the Parties:

- A. Each Party will operate those facilities it owns
- B. AEP may operate the high-side 138 kV disconnect switch (11112) of T-1, with use of dual locks, upon approval from STEC's dispatch.

10. Facility Maintenance Responsibilities of the Parties:

Each Party is responsible for maintenance of the facilities it owns

11. Estimated Peak Load: N/A

12. Other Terms and Conditions:

- A. AEP has access to the STEC Substation with a lock in the entrance gate(s)
- B. AEP has access to STEC's control house with dual locks in a hasp type arrangement or dead bolts on individual doors.
- C. Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached.

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The diagram is a single-line schematic of a 138/13kV substation. At the top, two 138KV lines enter: '138KV LINE TO KENEDY SWITCHING STATION CB 7175' on the left and '138KV LINE TO PLEASANTON CB 6520' on the right. Each line has a center break switch with arcing horns (marked with an asterisk) and a capacitor (348/347 on the left, 208/207 on the right). Below these are 13kV busbars. The left busbar has a 'SS POWER PT (1) 147' and a capacitor (1131). The right busbar has a 'SS POWER PT (1) 107' and a capacitor (1069). A horizontal 13kV line connects the two busbars, featuring a capacitor (11793) and a switch (11112). Below the horizontal line, there are two more busbars. The left one has a 'FUTURE' label and a capacitor (1130). The right one has a 'FUTURE' label and a capacitor (11111). A dashed line labeled 'AEP STEC' is positioned between the two lower busbars. Various other components are labeled, including 'CØ ONLY' and 'CCVT (3)'.

FACILITY SCHEDULE NO. 55

- 1. Name:** **Montell**
- 2. Facility Location:** STEC's Montell Substation ("STEC Substation") is located at 19342 State Hwy 55, Uvalde, Uvalde County, Texas. The STEC Substation is connected to AEP's Uvalde to Campwood 69 kV transmission line, approximately 25.7 transmission line miles north-northwest of the Uvalde substation and approximately 11.1 transmission line miles south of the Campwood substation. The Point of Interconnection is within the STEC Substation at the line-side connector of the 69 kV disconnect switch (2611) that sectionalize the AEP 69 kV bus from STEC's transformer(s).
- 3. Delivery Voltage:** 69 kV
- 4. Metered Voltage:** 24.9 kV
- 5. Loss Adjustment Due to Meter Location:** Yes, transformer loss compensation
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the STEC Substation and all the facilities within it, except for those facilities identified as being owned by AEP
 - b. control house
 - c. remote terminal unit ("RTU") and associated communications facilities
 - d. property, ground grid, fencing
 - e. transformer and associated 69 kV disconnect switch (2611) and protective device, and station service
 - f. battery back-up system
 - B. AEP agrees that it owns the following facilities:**
 - a. the Uvalde 69 kV transmission line
 - b. the Campwood 69 kV transmission line
 - c. the two (2) inline 69 kV, motor operated, air switches (4377 and 928)
 - d. one (1) bus-tie switch (1059)
 - e. metering facilities connected to STEC's 24.9 kV instrument transformers via secondary wiring located in STEC's control house
 - f. RTU and associated communications facilities
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns.
 - B.** STEC may operate switches (4377 and 928) with the use of dual locks, upon approval from AEP dispatch.

10. Facility Maintenance Responsibilities of the Parties:

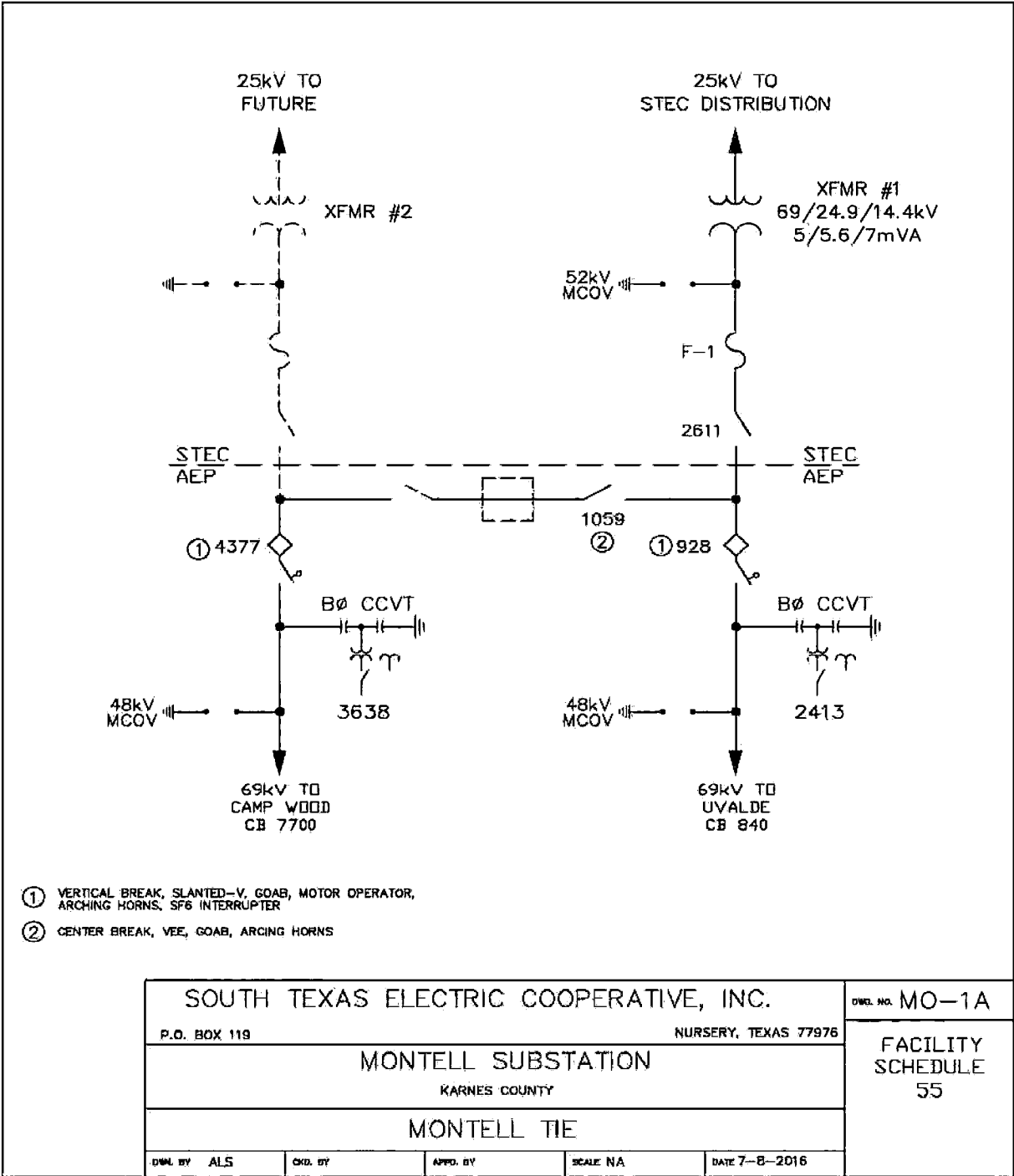
Each Party is responsible for maintenance of the facilities it owns.

11. Estimated Peak Load: N/A**12. Other Terms and Conditions:**

- A.** AEP has access to the STEC Substation with a lock in the entrance gate(s).
- B.** Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached.

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FACILITY SCHEDULE NO. 55 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 56

- 1. Name:** **Sunniland**
- 2. Facility Location:** STEC's Sunniland Substation ("STEC Substation") is located at 1174 FM 2049, Three Rivers in Live Oak County, Texas. The STEC Substation is connected to the Three Rivers to Pleasanton 69 kV transmission line, approximately 7.3 transmission circuit miles north-northwest of the Three Rivers substation and approximately 34.1 transmission circuit miles south of the Pleasanton substation. The Point of Interconnection is within the STEC Substation at the line-side disconnect switch (1901) that sectionalize the AEP 69 kV bus from STEC's transformer.
- 3. Delivery Voltage:** 69 kV
- 4. Metered Voltage:** 24.9 kV
- 5. Loss Adjustment Due to Meter Location:** Yes, transformer loss compensation
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the STEC Substation and all the facilities within it, except for those facilities identified as being owned by AEP
 - b. control house
 - c. remote terminal unit ("RTU") and associated communications facilities
 - d. property, ground grid, fencing
 - e. transformer and associated disconnect switch (1901) and protective device, and station service
 - f. battery back-up system
 - B. AEP agrees that it owns the following facilities:**
 - a. the Pleasanton 69 kV transmission line
 - b. the Three Rivers 69 kV transmission line
 - c. the two (2) inline 69 kV switches (1288 and 3317)
 - d. one (1) bus-tie switch (2131)
 - e. metering facilities connected to STEC's 24.9 kV instrument transformers via secondary wiring located in the control house
 - f. RTU and associated communications facilities
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns.
 - B.** STEC may operate AEP's line switches (1288, 2131, and 3317) with the use of dual locks, upon approval from AEP dispatch.

10. Facility Maintenance Responsibilities of the Parties:

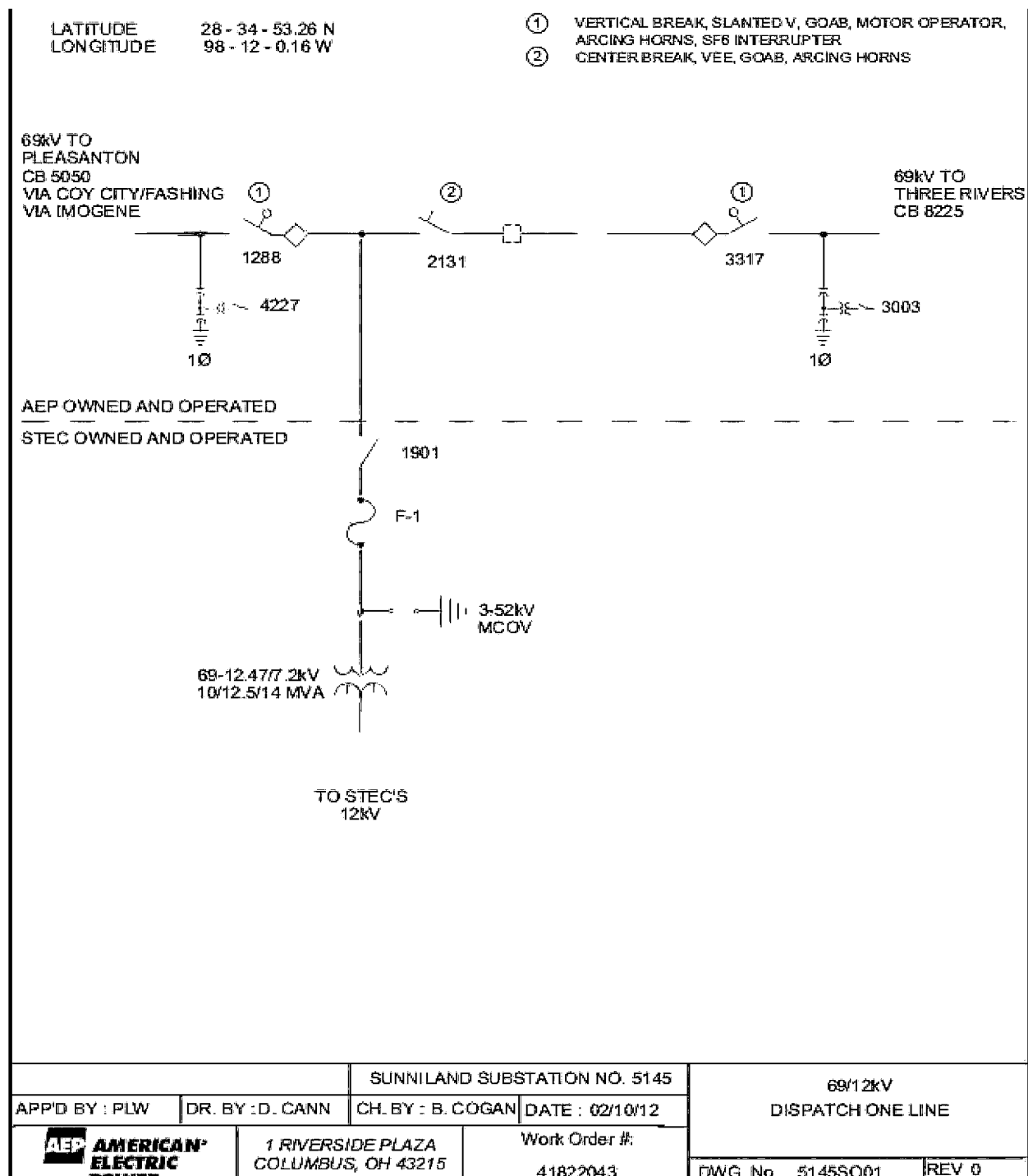
Each Party is responsible for maintenance of the facilities it owns.

11. Estimated Peak Load: N/A**12. Other Terms and Conditions:**

- A.** AEP has access to the STEC Substation with a lock in the entrance gate(s).
- B.** Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached.

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FACILITY SCHEDULE NO. 56 (continued) **One-Line Diagram**



SUNNILAND SUBSTATION NO. 5145				69/12kV DISPATCH ONE LINE	
APP'D BY : PLW	DR. BY : D. CANN	CH. BY : B. COGAN	DATE : 02/10/12		
		1 RIVERSIDE PLAZA COLUMBUS, OH 43215	Work Order #: 41822043	DWG. No. 5145SO01	REV 0

FACILITY SCHEDULE NO. 57

- 1. Name:** **Sioux**
- 2. Facility Location:** STEC's Sioux Substation ("STEC Substation") is located approximately 9 miles east of Pharr, at 106 W. Sioux Rd. Donna, Hidalgo County, Texas. The Point of Interconnection is within the STEC Substation at STEC's dead-end structure. More specifically the Point of Interconnection is where STEC's jumper conductors from the STEC Substation equipment physically contact the connectors on the El Gato 138 kV transmission line conductors.
- 3. Delivery Voltage:** 138 kV
- 4. Metering Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the El Gato 138 kV transmission line with optical ground wire (OPGW)
 - b. remote terminal unit (RTU) and associated communications facilities
 - B. STEC agrees that it owns the following facilities:**
 - a. 125 VDC battery back-up system (batteries, AC/DC panel, charger, rack and accessories)
 - b. the STEC Substation and all the facilities within it, except for those facilities identified as being owned by AEP above
 - c. the dead-end structure (Point of Interconnection)
 - d. the protective relaying for the El Gato 138 kV transmission line
 - e. rack space for AEP's Fiber Distribution Panel (FDP)
 - f. conduit path from the dead-end structure to STEC's control house for AEP's station entrance fiber cable
 - g. property, fencing, ground grid
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns.
 - B.** AEP may operate the 138 kV line switch (22821) upon approval from STEC's dispatch.
- 10. Facility Maintenance Responsibilities of the Parties:**

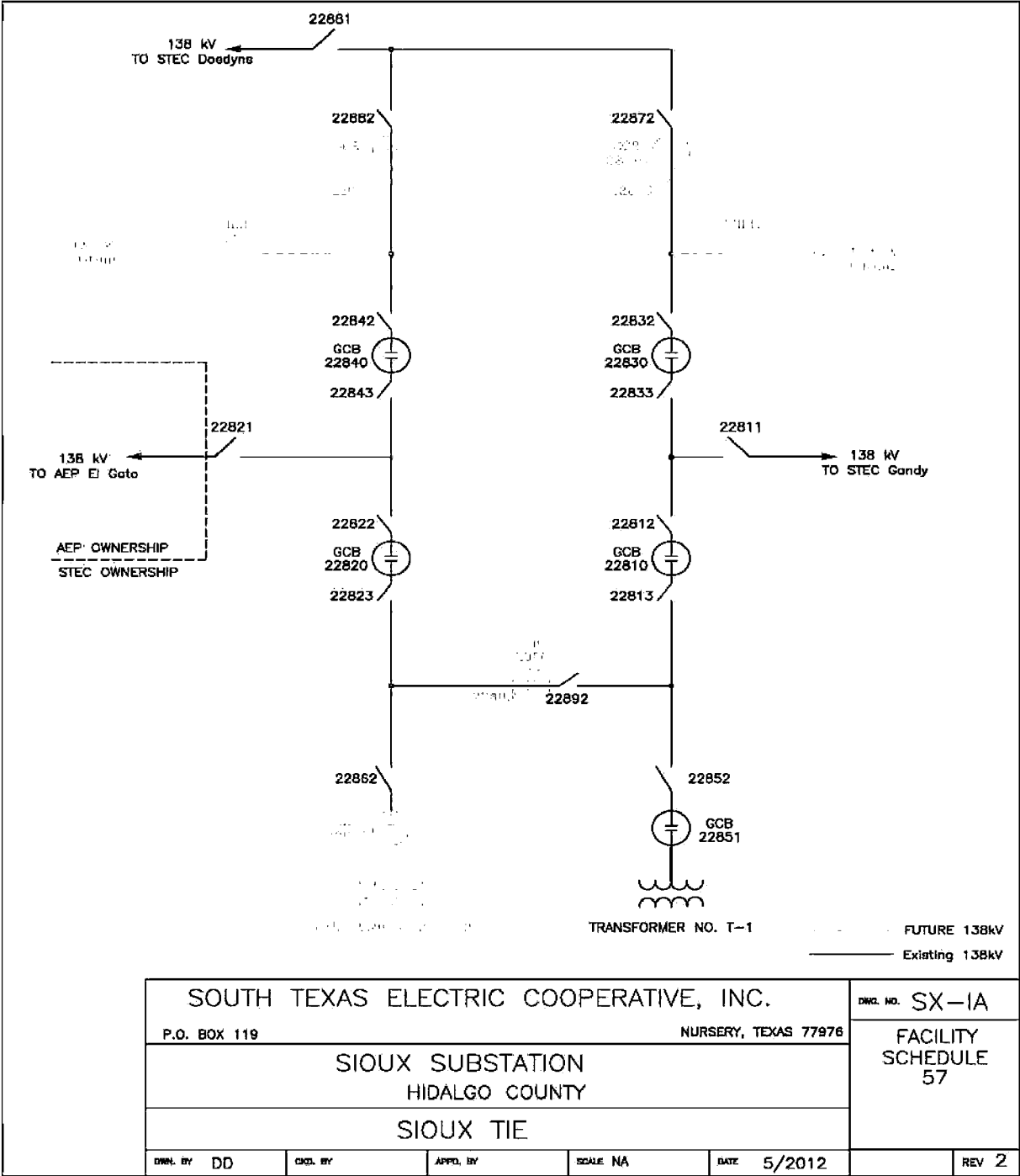
Each Party is responsible for maintenance of the facilities it.
- 11. Estimated Peak Load:** N/A

12. Other Terms and Conditions:

- A.** AEP has access to the STEC Substation with a lock in the entrance gate(s)
- B.** AEP has access to the STEC Substation control house.

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FACILITY SCHEDULE NO. 57 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 58

- 1. Name:** **Big Oak**
- 2. Facility Location:** AEP's Big Oak Substation ("AEP Substation") is located at 3625 FM 883 Berclair, Goliad County, Texas. The AEP Substation is connected to the STEC Schroeder to Beeville 69 kV transmission line, approximately 13.5 transmission line miles north-northwest of the Beeville substation and approximately 31.5 transmission line miles south of the Schroeder Substation. The Point of Interconnection is within the AEP Substation at the line-side connector of the air disconnect switch (2057) that sectionalizes STEC's Schroeder to Beeville 69 kV transmission line from the AEP Substation.
- 3. Delivery Voltage:** 69 kV
- 4. Metering Voltage:** 24.9 kV
- 5. Loss Adjustment Due To Meter Location:** Yes, transformer loss compensation
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Substation and all the facilities within it, except for those facilities identified as being owned by STEC
 - b. AEP Substation control house
 - c. remote terminal unit ("RTU") and associated communications facilities
 - d. property, ground grid, fencing
 - e. transformer and associated primary air disconnect switch (2057) and protective device
 - f. circuit switcher (2058)
 - g. AEP Substation service battery back-up system
 - h. metering and metering facilities
 - B. STEC agrees that it owns the following facilities:**
 - a. the Schroeder 69 kV transmission line
 - b. the Beeville 69 kV transmission line
 - c. the two (2) inline 69 kV motor operated air switches (337 and 343), and other facilities associated with the 69 kV line terminal
 - d. switches (375 and 395)
 - e. RTU and associated communications facilities
 - f. a capacitor bank and associated protection and control facilities

9. Facility Operation Responsibilities of the Parties:

Each Party will operate those facilities it owns.

10. Facility Maintenance Responsibilities of the Parties:

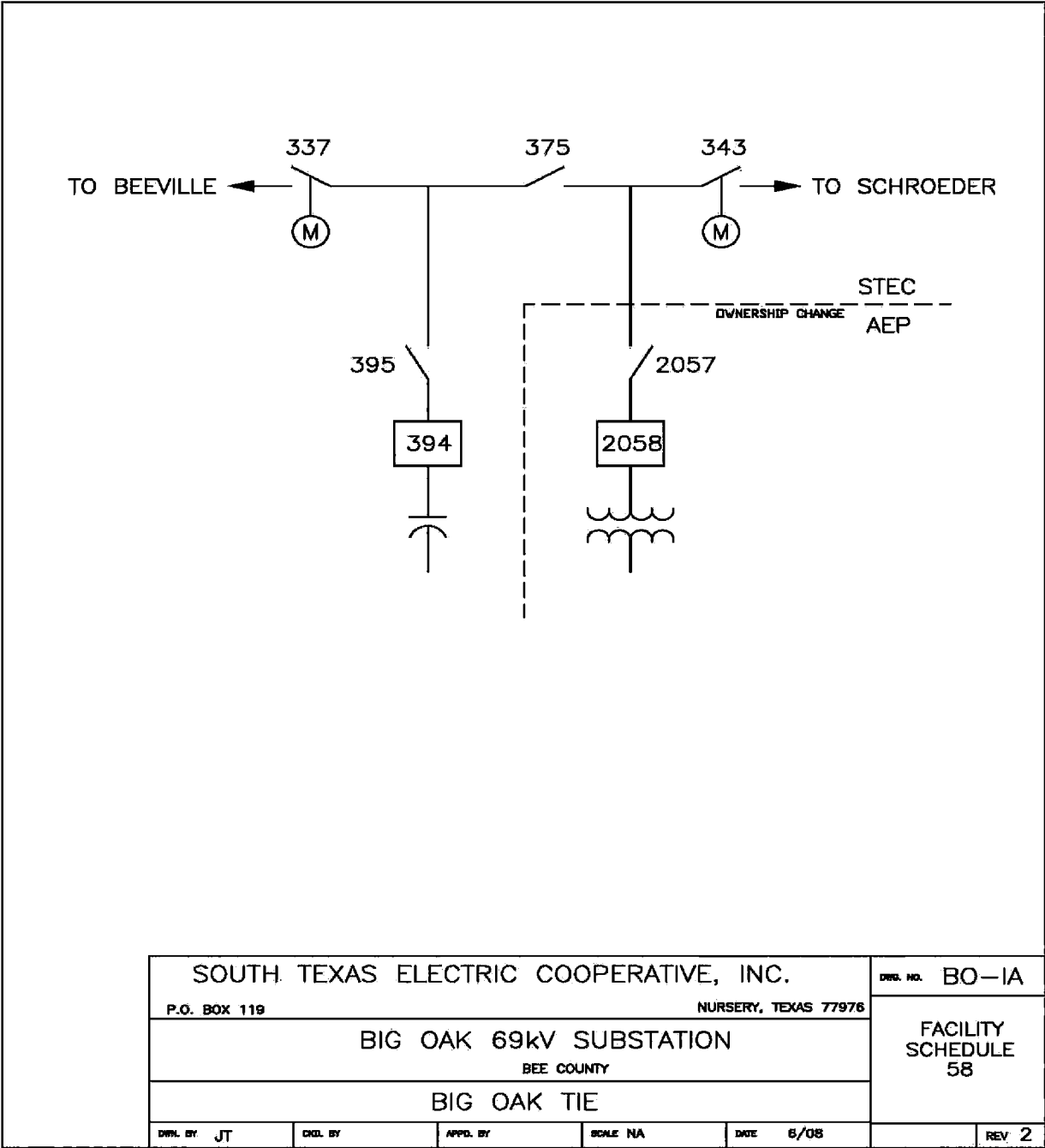
Each Party is responsible for maintenance of the facilities it owns

11. Estimated Peak Load: NA**12. Other Terms and Conditions:**

- A. Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party
- B. STEC has access to the AEP Substation with a lock in the entrance gate(s).

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FACILITY SCHEDULE NO. 58 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 59

- 1. Name:** **Jardin**
- 2. Facility Location:** The Jardin Substation (“STEC Substation”) is located 5251 NI35 Cotulla, LaSalle County, Texas. The STEC Substation is connected to AEP’s Cotulla (STEC) to Dilley Sw. 138 kV transmission line, approximately 12.5 transmission miles south of the Dilley Sw. substation. The Point of Interconnection is within the STEC Substation at 1) the 138 kV line-side disconnect switch (10213) of transformer No. 1 (“T-1”). More specifically the Point of Interconnection is where the conductors from the 138 kV bus facilities physically contact the 138 kV line-side of the transformer disconnect switch (10213).
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 24.9 kV
- 5. Loss Adjustment Due To Meter Location:** Yes, transformer loss compensation
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. Control house with cable trays in the concrete floor
 - b. T-1 and associated high-side 138 kV disconnect switch (10213) and high-side 138 kV circuit switcher (10211)
 - c. One set of three multi-ratio, tank mounted, CTs in the primaries of T-1 for AEP use in bus differential protection
 - d. Transformer differential and distribution bus and feeder relaying
 - e. All distribution voltage level facilities including the metering instrument transformers
 - f. Property, fencing, ground grid
 - g. Remote terminal unit (“RTU”) and associated communications facilities
 - h. Communication and distribution feeder breaker battery back-up systems if needed
 - i. Station service transformer
 - j. All other facilities not specified or specifically associated with the items listed below as AEP property
 - B. AEP agrees that it owns the following facilities:**
 - a. All 138 kV through-path facilities at the STEC Substation in-line with the Cotulla (STEC) to Dilley Sw. 138 kV transmission line including:
 - b. Two (2) motor operated line switches (3608 and 3217) towards Cotulla (STEC) and Dilley and associated relaying and/or control facilities
 - c. 138 kV bus tie switch (3761) and if applicable, any associated relaying/control facilities
 - d. 125 VDC battery back-up system (batteries, AC/DC panel, charger, rack and accessories) within STEC’s control house

- e. 138 kV bus differential protection, if applicable
- f. All control cables required for the control and protection of the AEP-owned 138 kV facilities including cables for the operation of the in-line switches (3608 and 3217).
- g. RTU and associated communications facilities
- h. Metering facilities located in the control house connected to the secondary wiring of STEC's instrument transformers
- i. Power potential transformer for station service

9. Facility Operation Responsibilities of the Parties:

- A.** Each Party will operate those facilities it owns
- B.** AEP may operate the high-side disconnect switch (10213) of T-1, with use of dual locks, upon approval from STEC's dispatch.

10. Facility Maintenance Responsibilities of the Parties:

Each Party is responsible for maintenance of the facilities it owns

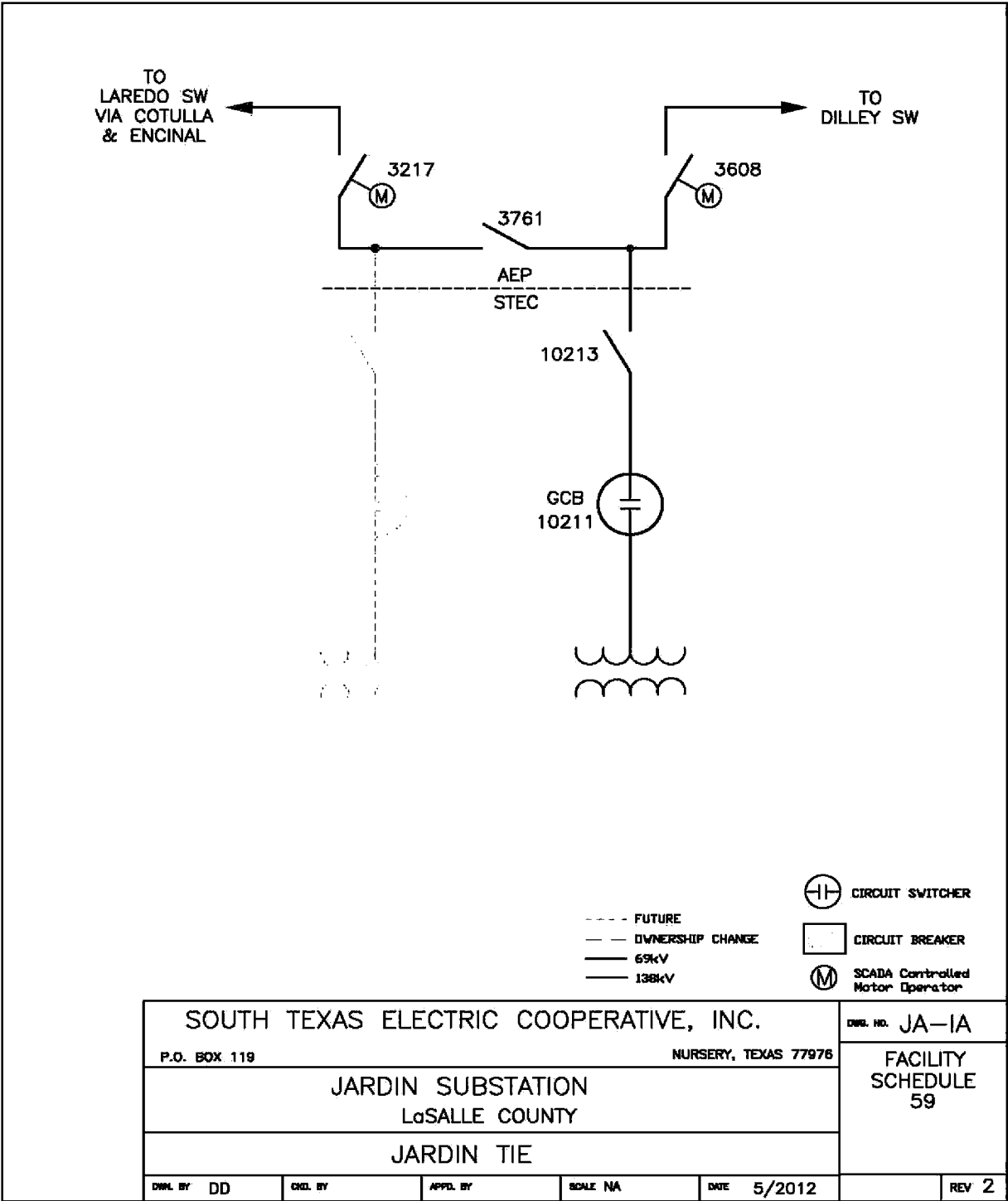
11. Estimated Peak Load: NA

12. Other Terms and Conditions:

- A.** AEP has access to the STEC Substation with a lock in the entrance gate(s)
- B.** AEP has access to STEC's control house with dual locks in a hasp type arrangement or dead bolts on individual doors.
- C.** Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party

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FACILITY SCHEDULE NO. 59 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 60

- 1. Name:** **Reveille**
- 2. Facility Location:** The Reveille Substation (“STEC Substation”) (28° 24’ 55.50” N., 99° 15’ 28.63” W.) is at 513 Conchina Ranch Rd, Cotulla, LaSalle County, Texas. There are four (4) Points of Interconnection within the STEC Substation where 1) the conductors from AEP’s 138 kV bus facilities physically contact STEC’s 138 kV disconnect switch (10183) of transformer No. 1 (“T-1”), and 2) the conductors from AEP’s 138 kV bus facilities physically contact STEC’s 138 kV disconnect switch (10193) of transformer No. 2 (“T-2”), and 3) AEP’s jumper conductors physically contact STEC’s 138 kV transmission line conductors terminated on AEP’s dead-end structure (more specifically where the AEP jumpers physically connect to STEC’s transmission line), and 4) the conductors from AEP’s 138 kV bus facilities physically contact STEC’s 138 kV disconnect switch (10162) of transformer No. 5 (“T-5”).
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV
- 5. Loss Adjustment Due To Meter Location:** No
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. Control house with cable trays in the concrete floor
 - b. T-1 and associated high-side 138 kV disconnect switch (10183) and high-side 138 kV circuit switcher (10181)
 - c. T-2 and associated high-side 138 kV disconnect switch (10193) and high-side 138 kV circuit switcher (10191)
 - d. T-5 and associated high-side 138 kV disconnect switch (10162) and high-side 138 kV circuit switcher (10161)
 - e. One set of three multi-ratio, tank mounted, CTs in the primaries of T-1, T-2 and T-5 for AEP use in bus differential protection
 - f. Transformer differential, distribution bus and feeder relaying
 - g. All distribution facilities including the metering instrument transformers
 - h. Property, fencing, ground grid
 - i. Remote terminal unit (“RTU”) and associated communications facilities
 - j. Communication and distribution feeder breaker battery back-up systems if needed
 - k. Substation service facilities
 - l. The Fowlerton 138 kV transmission line with optical ground wire (OPGW)
 - m. All other facilities not specified or specifically associated with the items listed below as AEP property

B. AEP agrees that it owns the following facilities:

- a. All the 138 kV energized devices, bus work, support structures and control equipment
- b. the 138 kV ring bus, including all 138 kV circuit breakers, 138 kV disconnect switches, lightning arresters, bus supports
- c. 125 VDC battery back-up system (batteries, AC/DC panel, charger, rack and accessories) within STEC's control house
- d. 138 kV bus differential protection
- e. all control cables required for the control and protection of the AEP-owned 138 kV facilities
- f. RTU and associated communications facilities
- g. 138 kV metering facilities (check meter) located in the control house connected to the secondary wiring of STEC's instrument transformers
- h. Power potential transformer for station service
- i. The dead-end structure that terminate AEP's Cotulla 138 kV transmission line
- j. The dead-end structure that terminate AEP's North Laredo 138 kV transmission line

9. Facility Operation Responsibilities of the Parties:

- A. Each Party will operate those facilities it owns
- B. AEP may operate the high-side disconnect switches (10193, 10183, and 10162) of T-1, T-2 and T-5 respectively, with use of dual locks, upon approval from STEC's dispatch.

10. Facility Maintenance Responsibilities of the Parties:

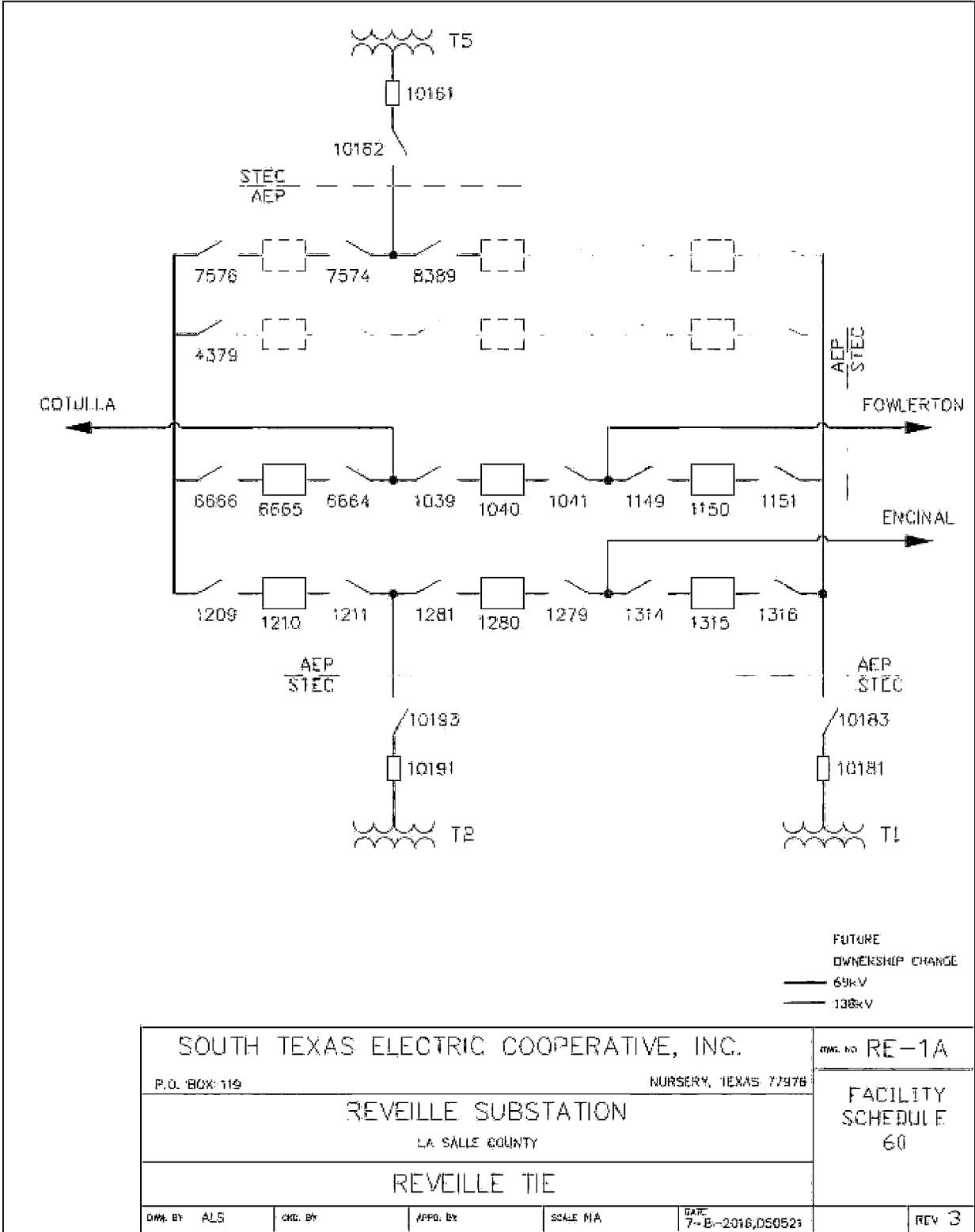
Each Party is responsible for maintenance of the facilities it owns

11. Estimated Peak Load: NA**12. Other Terms and Conditions:**

- A. AEP has access to the STEC Substation with a lock in the entrance gate(s)
- B. AEP has access to STEC's control house with dual locks in a hasp type arrangement or dead bolts on individual doors.
- C. Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party.

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FACILITY SCHEDULE NO. 60 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 61

- 1. Name:** **Pawnee**
- 2. Facility Location:** STEC's Pawnee 345/138 kV Auto Substation ("STEC Substation") is located at 2465 County Road 171, Karnes City, Texas 78118, in Karnes County. There are two (2) Points of Interconnection within the STEC Substation where the two AEP's distribution lines terminate at STEC's metering CTs on the distribution A-frame for each feeder.
- 3. Delivery Voltage:** 25 kV
- 4. Metered Voltage:** 25 kV
- 5. Loss Adjustment Due to Meter Location:** Yes, transformer loss compensation
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the STEC Substation and all the facilities within it, except for those facilities identified as being owned by AEP below
 - b. the control house
 - c. a remote terminal unit ("RTU") and associated communications facilities
 - d. the battery back-up system(s)
 - e. the property, ground grid and fencing
 - f. transformer(s), all 25 kV breakers and associated primary air disconnect switch(s) and protective device(s)
 - g. 25 kV metering facilities to meter AEP's feeders
 - h. the station services
 - B. AEP agrees that it owns the following facilities:**
 - a. no facilities within the STEC Substation
 - b. two (2) distribution lines (Circuit No.'s K22202 and K22101) that terminate to their designated distribution feeder bays
 - c. an RTU and associated communications facilities if necessary
 - d. 25 kV metering facilities (check meter) located on the first distribution pole connected to the secondary wiring of STEC's instrument transformers
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns.
 - B.** Requirements have been outlined for agreement and understanding between AEP and STEC on the operation and control of breakers (K22202 and K22101) under the January 1, 2013 AEP Texas – STEC Operating Agreement For AEP Dedicated 25 kV Breakers Out Of STEC Pawnee Substation.

10. Facility Maintenance Responsibilities of the Parties:

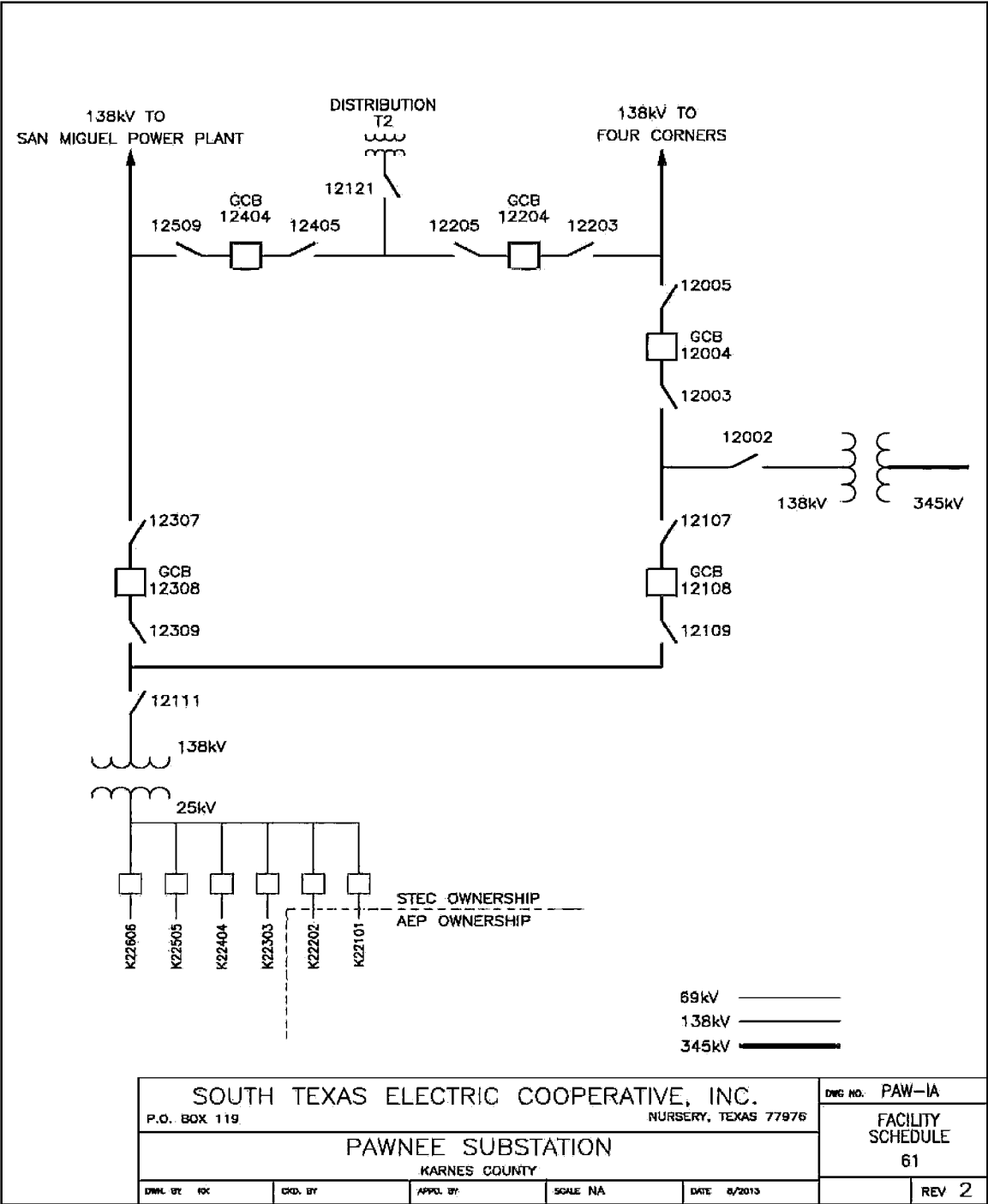
Each Party is responsible for maintenance of the facilities it owns.

11. Estimated Peak Load: N/A**12. Other Terms and Conditions:**

- A.** AEP has access to the STEC Substation with a lock in the entrance gate(s).
- B.** Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party.
- C.** AEP will be responsible and account for the load shedding requirements to ERCOT

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FACILITY SCHEDULE NO. 61 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 62

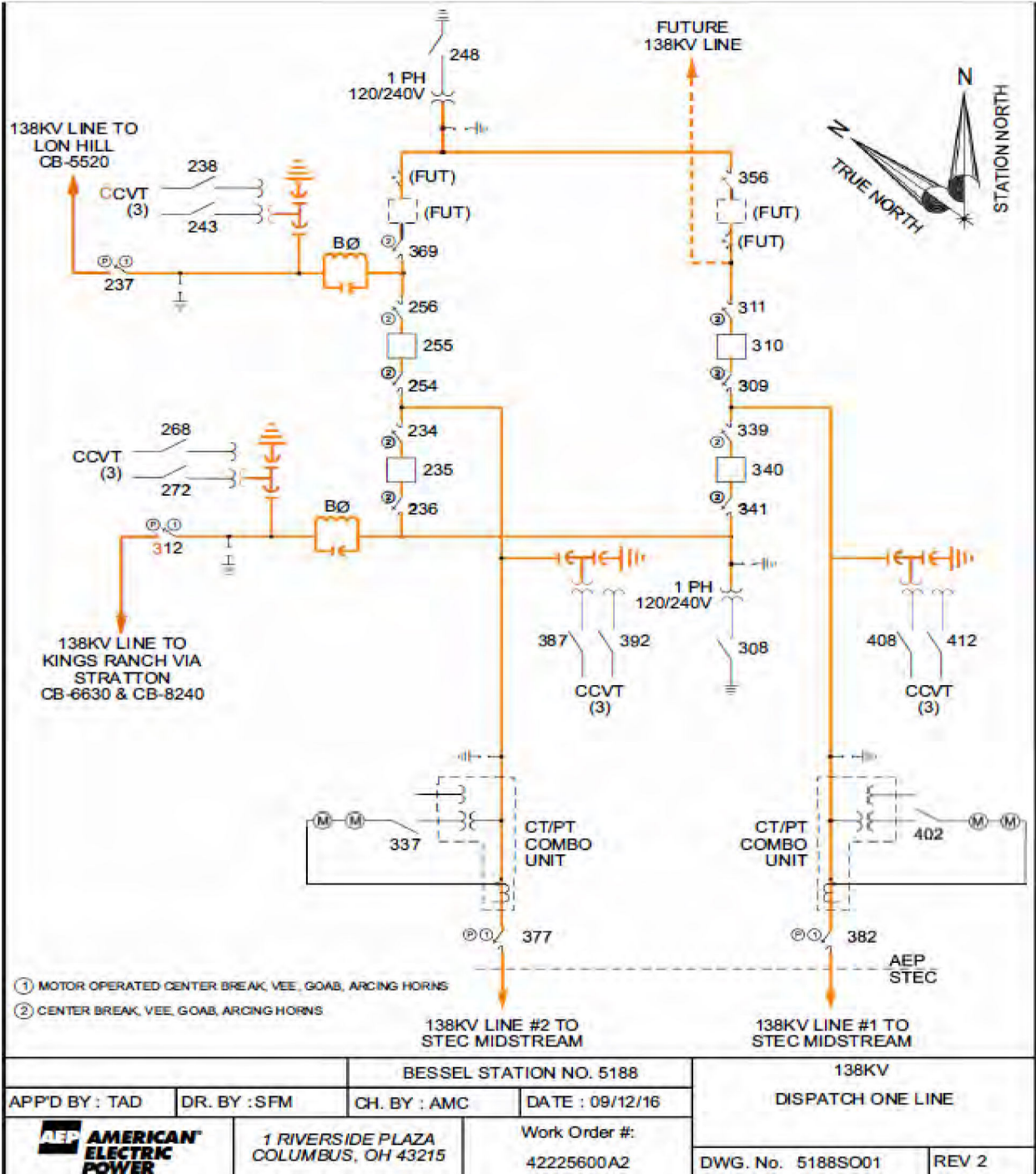
- 1. Name:** Bessel
- 2. Facility Location:** AEP's Bessel Substation ("AEP Substation") is located approximately 3000 feet north of the intersection FM 666 and FM 2626, approximately four (4) miles south of Banquete, Texas, in Nueces County. The two (2) Points of Interconnection are at 1) AEP's dead-end structure within the AEP Substation where STEC's 138 kV transmission line #1 to Midstream terminate, and 2) AEP's dead-end structure within the AEP Substation where STEC's 138 kV transmission line #2 to Midstream terminate. More specifically the Points of Interconnection are where AEP's jumper conductors from the 138 kV AEP Substation bus physically contact the 138 kV transmission line conductors.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV
- 5. Loss Adjustment Due To Meter Location:** No
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagrams Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. approximately 3300 feet of a radial double circuit 138 kV transmission line to the STEC Midstream substation.
 - b. the optical ground wire (OPGW) from the Midstream substation to the AEP Substation
 - B. AEP agrees that it owns the following facilities:**
 - a. the AEP Substation and all the facilities within it
 - b. the two (2) dead-end structures for STEC's 138 kV transmission lines
 - c. two (2) 138 kV meters and meter facilities (check) within the AEP Substation
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns
 - B.** STEC may operate the line disconnect switches (377 and 382), with use of dual locks, upon approval from AEP dispatch.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns
- 11. Estimated Peak Load:** NA
- 12. Other Terms and Conditions:**
 - A.** STEC has access to the AEP Substation with a lock in the entrance gate(s)
 - B.** STEC has access to AEP's control house with dual locks in a hasp type arrangement or dead bolts on individual doors.

- C. Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party.

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FACILITY SCHEDULE NO. 62 (continued)
Permanent One-Line Diagram



FACILITY SCHEDULE NO. 63

- 1. Name:** **Choke Canyon (AEP)**
- 2. Facility Location:** AEP's Choke Canyon Substation ("AEP Substation") is located approximately two (2.0) miles west of Three Rivers, Texas in Live Oak County (28° 27' 17.42" N, 98° 13' 09.01" W), approximately 4.5 miles southwest of the AEP Three Rivers substation. The AEP Substation is connected to the STEC San Miguel to Sigmor 138 kV transmission line, approximately 26.0 circuit miles southwest of the San Miguel substation and approximately 2.0 transmission miles west of the Sigmor substation. The two (2) Points of Interconnection are within the Substation at 1) the 138 kV line-side of the disconnect switch (3223), and 2) the 138 kV line-side of the disconnect switch (2018). More specifically the Points of Interconnection are where the conductors from the 138 kV bus facilities physically contact the 138 kV bus-side of the switches.
- 3. Delivery Voltage:** 138 kV
- 4. Metering Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Substation and all the facilities within it, except for those facilities identified as being owned by STEC below
 - b. the property, ground grid and fencing
 - c. one (1) 138 kV circuit switcher (4408)
 - d. the control house with station service and 125 VDC AEP Substation battery back-up system
 - e. remote terminal unit ("RTU") and associated communications equipment
 - f. the 138/12.5 kV distribution transformer
 - g. 138 kV disconnect switches (2018 and 3223) and all associated material
 - B. STEC agrees that it owns the following facilities:**
 - a. the San Miguel 138 kV transmission line
 - b. the Sigmor 138 kV transmission line
 - c. two (2) inline 138 kV motor operated switch (10308 and 10304), one (1) bus tie air switch (10305) and other equipment associated with the 138 kV line terminal
 - d. RTU and associated communications facilities

9. Facility Operation Responsibilities of the Parties:

Each Party will operate those facilities it owns

10. Facility Maintenance Responsibilities of the Parties:

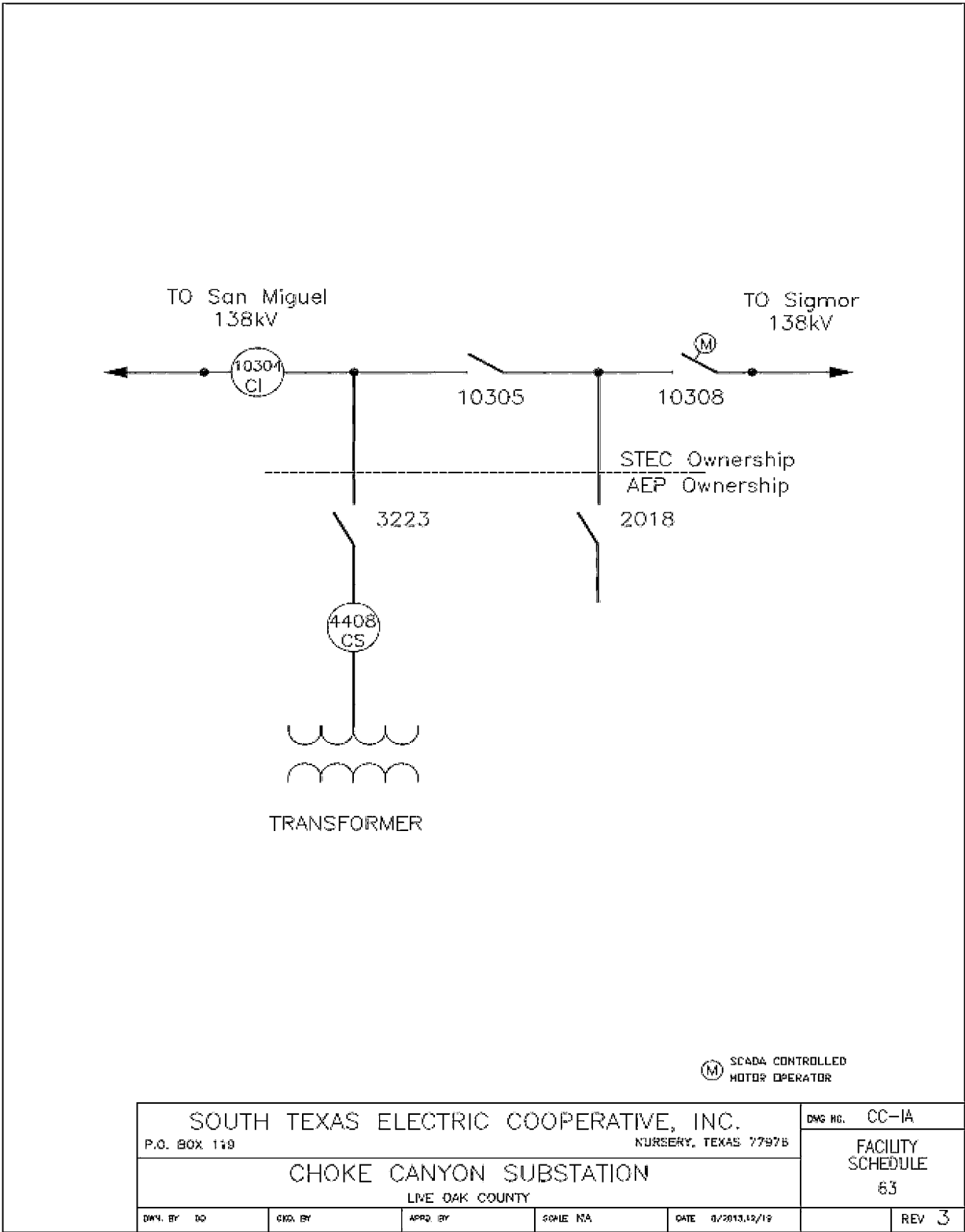
Each Party is responsible for maintenance of the facilities it owns

11. Estimated Peak Load: NA**12. Other Terms and Conditions:**

- A. Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its Control Center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party
- B. STEC has access to the AEP Substation with a lock at the entrance gate(s).

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FACILITY SCHEDULE NO. 63 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 64

- 1. Name:** **Chocolate Bayou**
- 2. Facility Location:** AEP's Chocolate Bayou Substation ("AEP Substation") is located at 19593 FM 1686, Victoria, Texas, in Victoria County. The Point of Interconnection is located within the AEP Substation where the jumpers from the AEP Substation equipment physically connects to STEC's distribution conductors terminating at the AEP Substation dead-end structure.
- 3. Delivery Voltage:** 12.5 kV
- 4. Metered Voltage:** 12.5 kV
- 5. Loss Adjustment Due to Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes.
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Substation and all the facilities within it, except for those facilities identified as being owned by STEC below
 - b. the control house with station service and 125 VDC station battery back-up system
 - c. remote terminal unit ("RTU") and associated communications facilities
 - d. property, ground grid, fencing
 - e. the 138/12.5 kV distribution transformer(s)
 - f. all the 12.5 kV breakers and associated primary air disconnect switch(es) and protective device(s)
 - g. 12.5 kV metering facilities (check meter) on the STEC feeder
 - B. STEC agrees that it owns the following facilities:**
 - a. no facilities inside the AEP Substation
 - b. the distribution line that terminate to STEC's designated distribution feeder bays
 - c. an RTU and associated communications facilities if necessary
 - d. 12.5 kV metering facilities located on the first distribution pole outside the AEP Substation
- 9. Facility Operation Responsibilities of the Parties:**
 - A.** Each Party will operate those facilities it owns.
 - B.** Requirements have been outlined for agreement and understanding between AEP, STEC and Victoria Electric Cooperative ("VEC") (STEC's Cooperative Member) on the operation and control of breaker (3750) under the September 1, 2014 AEP Texas – STEC Operating Agreement For VEC Dedicated 12.5 kV Breaker Out Of AEP Chocolate Bayou Substation.

10. Facility Maintenance Responsibilities of the Parties:

Each Party is responsible for maintenance of the facilities it owns.

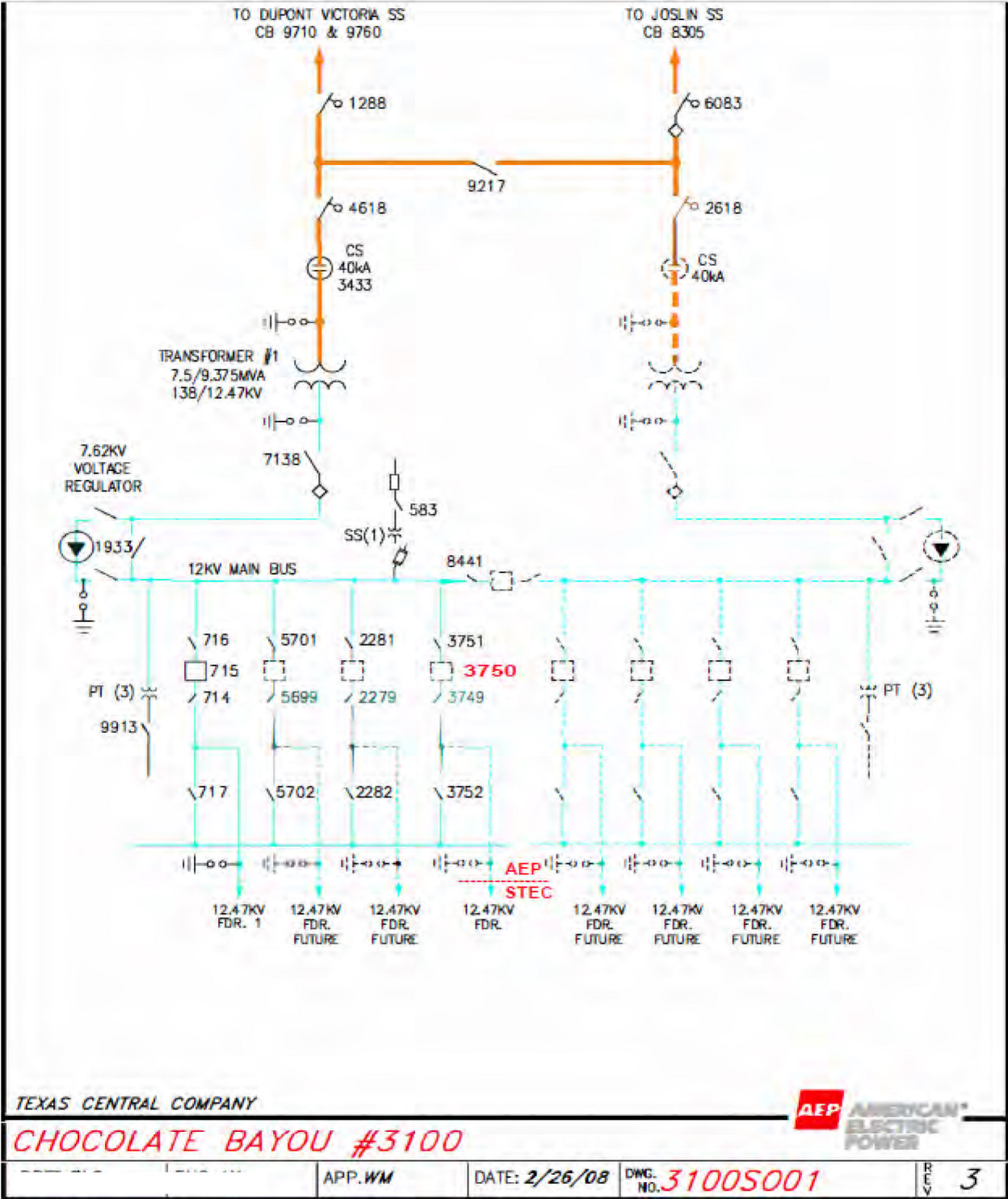
11. Estimated Peak Load: 3,000 kW

12. Other Terms and Conditions:

- A. STEC has access to the AEP Substation with a lock in the entrance gate(s).
- B. Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party.
- C. STEC will be responsible and account for the load shedding requirements to ERCOT.

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FACILITY SCHEDULE NO. 64 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 65

- 1. Name:** **Cotulla**
- 2. Facility Location:** STEC's Cotulla Substation ("STEC Substation") is 1227 Pena Rd, Cotulla in La Salle County, Texas. The STEC Substation is connected to AEP's 138 kV Dilley SS to Reveille transmission line. The two (2) Points of Interconnection are within the STEC Substation 1) where the STEC 138 kV jumpers from switch (15532) physically connect to AEP's 138 kV bus facilities, and 2) where the STEC 138 kV jumpers from switch (15512) physically connect to AEP's 138 kV bus facilities.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 24.9 kV
- 5. Loss Adjustment Due to Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the 138 kV four (4) breaker ring bus within the STEC Substation
 - b. the Dilley Sw 138 kV transmission line
 - c. the Reveille 138 kV transmission line
 - d. a control house
 - e. two (2) 138 kV meters and metering facilities (check) within the STEC Substation
 - B. STEC agrees that it owns the following facilities:**
 - a. the STEC Substation and all the facilities within it, except for those facilities identified as being owned by AEP above
 - b. a control house
 - c. property, ground grid, fencing
- 9. Facility Operation Responsibilities of the Parties:**

Each Party will operate those facilities it owns.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** NA
- 12. Other Terms and Conditions:**

AEP has access to the STEC Substation with a lock in the entrance gate(s)

		LATITUDE: 28.46054 LONGITUDE: -99.25091
TO STEC 24,9KV DISTRIBUTION		TO STEC 69KV TRANSMISSION
STEC AEP		STEC AEP
138KV BUS #2		138KV BUS #1
67V 67V 2042 2043		115V (X-AEP) 115V (Y-STEC)
(3) 84kV MCOV		(3) 84kV MCOV
1-50kVA STA. SERV.		1-50kVA STA. SERV.
2017		7093
67V 8432 67V 8433		138KV LINE TO DILLEY SS CB 60 & CB 7825
(3)		(3) 84kV MCOV
COTULLA (STEC) SUB, NO. 7116		138/69/12kV
APP'D BY : PLW	DR. BY : DC	ONE LINE DIAGRAM
CH. BY : DSG	DATE : 08/15/2014	DISPATCH ONE-LINE DIAGRAM
1 RIVERSIDE PLAZA COLUMBUS, OH 43215	Work Order # 42179097	DWG. No. 7116SC001
AMERICAN ELECTRIC	RIV. P.	RIV. P.

FACILITY SCHEDULE NO. 66

- 1. Name:** **Hindes**
- 2. Facility Location:** The STEC Hindes Substation (“STEC Substation”) (28° 38’ 47.53” N., 98° 54’ 11.54” W.) is located at 876 Prince Rd, Fowlerton in LaSalle County, Texas. The STEC Substation is connecting to AEP’s Dilley SS to San Miguel 138 kV transmission line. There are two (2) Points of Interconnection within the STEC Substation at 1) the 138 kV line-side of the isolation switch (11312) of transformer No. 1 (“T-1”), and 2) the 138 kV line-side of the isolation switch (11322) of transformer No. 2 (“T-2”). More specifically the Points of Interconnection are where the conductors from the 138 kV bus facilities physically contact the 138 kV bus-side of the transformer isolation switches.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 24.9 kV
- 5. Loss Adjustment Due To Meter Location:** Yes, transformer loss compensation
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership and Installation Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. Control house with cable trays in the concrete floor
 - b. T-1 and associated high-side 138 kV disconnect switch (11312) and high-side 138 kV circuit breaker (11311)
 - c. T-2 and associated high-side 138 kV disconnect switch (11322) and high-side 138 kV circuit breaker (11321)
 - d. Transformer differential relaying
 - e. Property, fencing, ground grid
 - f. Remote terminal unit (“RTU”) and associated communications facilities
 - g. Station service transformer
 - h. The 25 kV current transformers (“CTs”) and potential transformers (“PTs”)
 - i. All other facilities not specified or specifically associated with the items listed below as AEP property
 - B. AEP agrees that it owns the following facilities:**
 - a. The Dilley SW 138 kV transmission line
 - b. The San Miguel 138 kV transmission line
 - c. One (1) dead-end structure in the Dilley SS 138 kV transmission line
 - d. One (1) dead-end structure in the San Miguel 138 kV transmission line
 - e. Approximately 0.02 mile of 138 kV transmission line with optical ground wire (“OPGW”) from the STEC Substation to the dead-end structures in the San Miguel 138 kV transmission line
 - f. Approximately 0.02 miles of 138 kV transmission line with OPGW from the STEC

- Substation to the dead-end structures in the Dilley SS 138 kV transmission line
- g. Two (2) motor operated line switches (3767 and 3768) and associated relaying/control facilities
 - h. One (1) 138 kV bus tie switch (3772) and associated relaying/control facilities
 - i. 125 VDC battery back-up system (batteries, AC/DC circuit breaker panels, charger, rack and accessories) within the STEC control house
 - j. all control cables required for the control and protection of the AEP-owned 138 kV facilities
 - k. Substation data repository (SDR), RTU, fiber distribution panel (FDP) and associated communications facilities
 - l. Two (2) 25 kV metering and metering facilities located within the STEC Substation control house

9. Facility Operation Responsibilities of the Parties:

- A. Each Party will operate those facilities it owns
- B. AEP may operate the high-side disconnect switches (11312 and 11322) of T-1 and T-2 respectively, with use of dual locks, upon approval from STEC dispatch.

10. Facility Maintenance Responsibilities of the Parties:

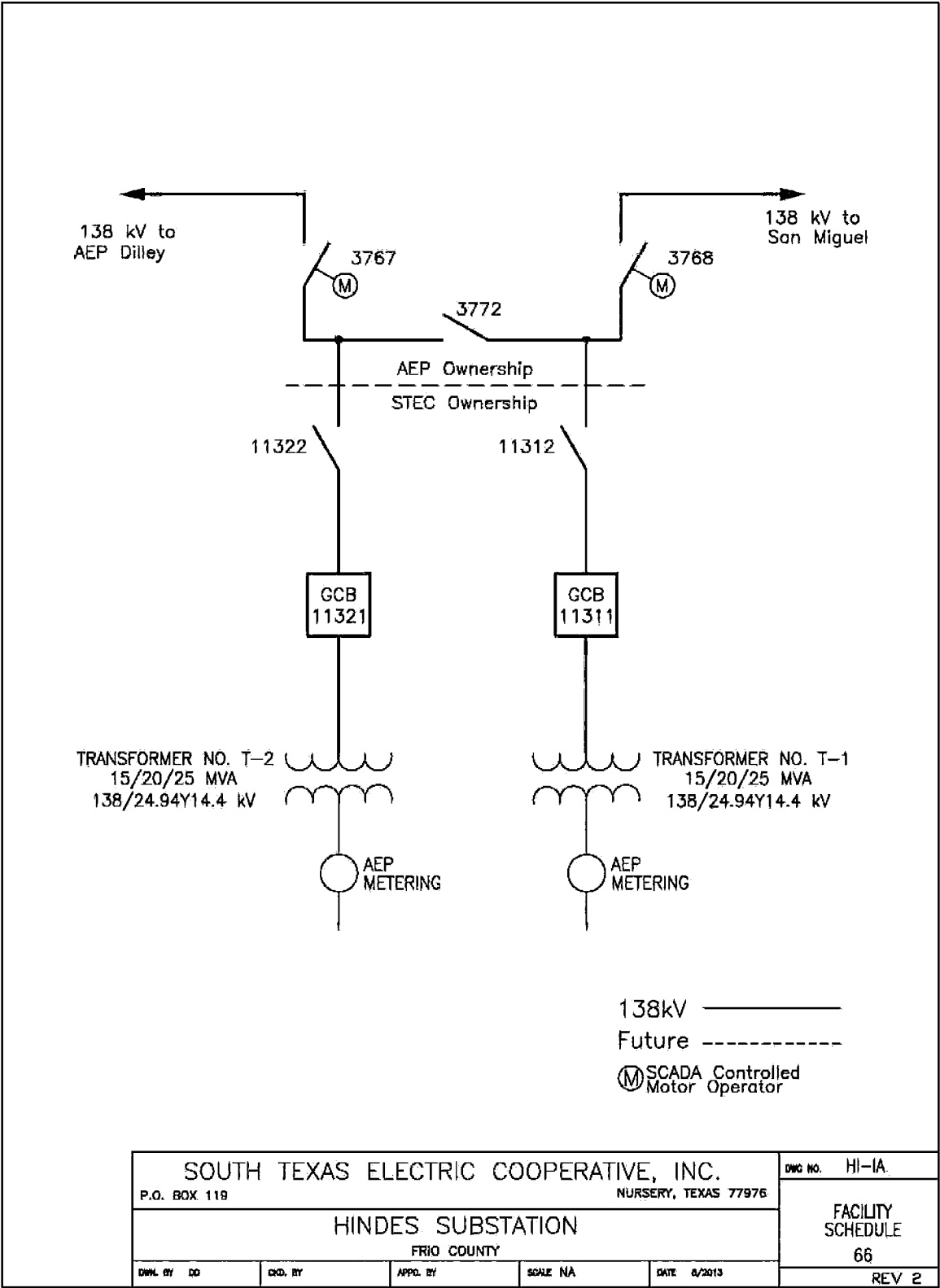
Each Party is responsible for maintenance of the facilities it owns.

11. Estimated Peak Load: NA

12. Other Terms and Conditions:

- A. AEP has access to the STEC Substation with a lock in the entrance gate
- B. AEP has access to STEC's control house with dual locks in a hasp type arrangement or dead bolts on individual doors.
- C. Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party.
- D. STEC agrees to allow AEP to utilize STEC's 25 kV CTs and PTs for AEP's metering requirements

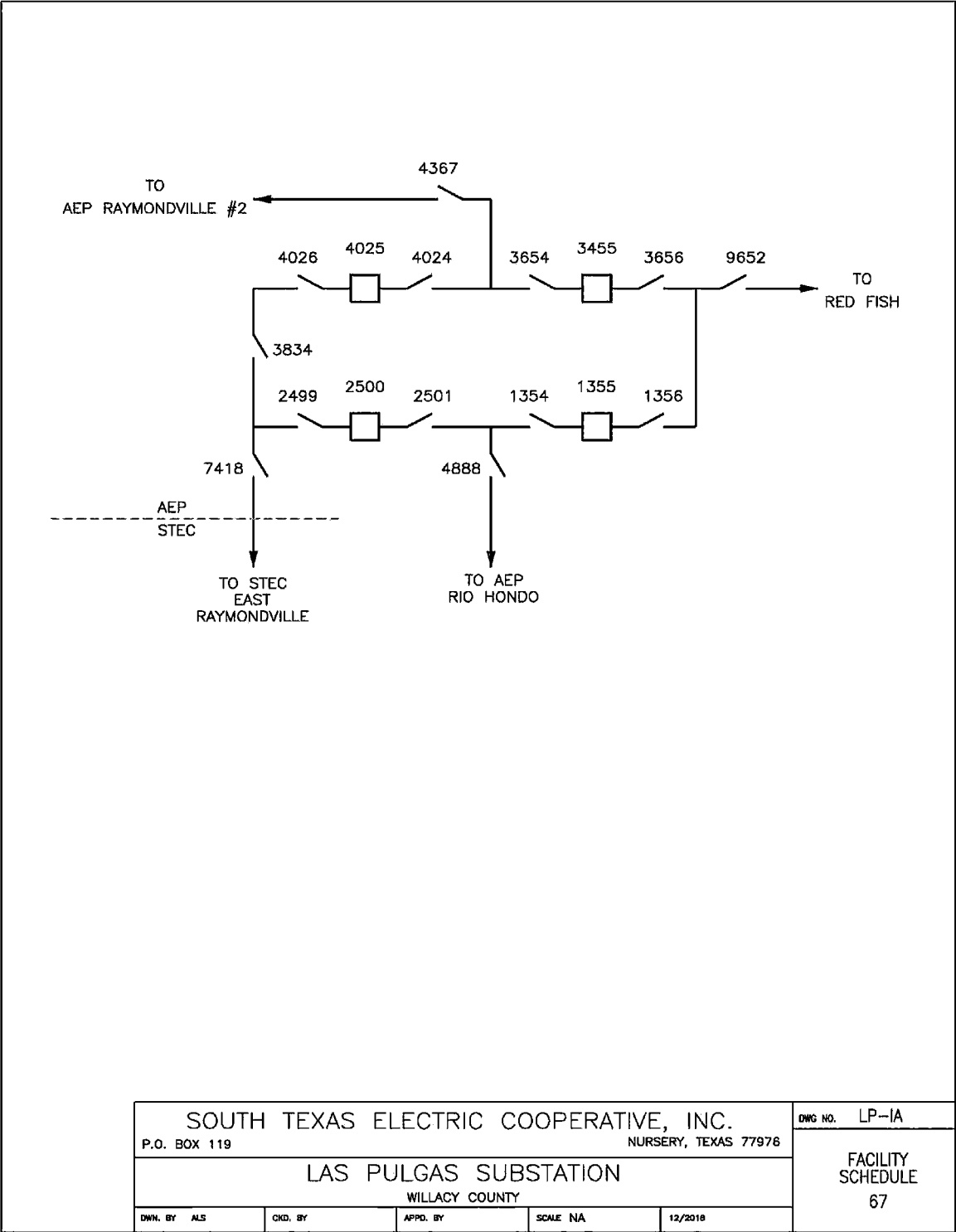
FACILITY SCHEDULE NO. 66 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 67

- 1. Name:** Las Pulgas
- 2. Facility Location:** AEP's Las Pulgas Station ("AEP Station") (26° 27' 39.89" N., 97° 45' 01.57" W.) is located in Willacy County, approximately two (2) miles southeast of the Raymondville, Texas. The AEP Station is connected to AEP's Raymondville #2 to Rio Hondo 138 kV transmission line. The Point of Interconnection is within the AEP Station at the AEP Station dead-end structure that terminate STEC's Raymondville East 138 kV transmission line. More specifically, the Point of Interconnection is where the AEP jumpers physically connect to STEC's Raymondville East 138 kV transmission line.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV
- 5. Loss Adjustment Due To Meter Location:** None
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership and Installation Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the Raymondville East 138 kV transmission line
 - B. AEP agrees that owns the following facilities:**
 - a. the AEP Station and all the interconnecting facilities within it
 - b. the AEP Station control module
 - c. the RTU and associated communication facilities
 - d. property, ground grid, fencing
 - e. 138 kV metering and metering facilities
- 9. Facility Operation Responsibilities of the Parties:**
Each Party will operate those facilities it owns.
- 10. Facility Maintenance Responsibilities of the Parties:**
Each Party is responsible for maintenance of the facilities it owns
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**
 - A.** Each Party provides its own SCADA communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party
 - B.** STEC has access to the AEP Station with a lock at the entrance gate(s).

FACILITY SCHEDULE NO. 67 (continued)
One-Line Diagram



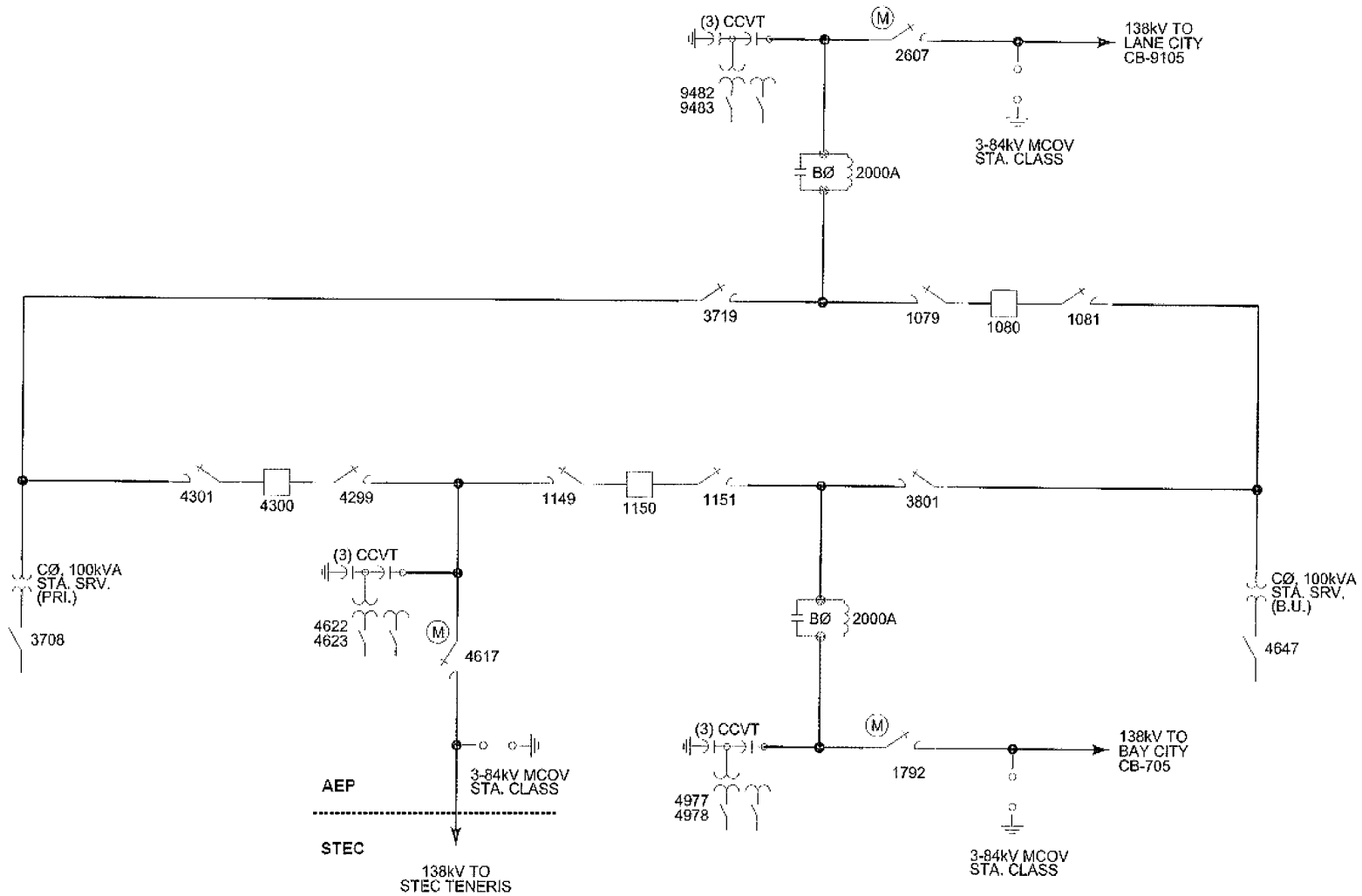
FACILITY SCHEDULE NO. 68

- 1. Name:** **Magill**
- 2. Facility Location:** AEP's Magill Station ("AEP Station") is located in Matagorda County, approximately 1.5 miles north of the Bay City, Texas. The AEP Station is connected to AEP's Bay City to Lane City 138 kV transmission line. The Point of Interconnection is within the AEP Station at the AEP Station dead-end structure that terminates STEC's Tenaris 138 kV transmission line. More specifically, the Point of Interconnection is where AEP's jumpers physically connect to STEC's Tenaris 138 kV transmission line.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV
- 5. Loss Adjustment Due To Meter Location:** None
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership and Installation Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the Tenaris 138 kV transmission line that terminate with the AEP Station
 - B. AEP agrees that it owns the following facilities:**
 - a. the AEP Station and all the interconnecting facilities within it
 - b. the AEP Station control module
 - c. the RTU and associated communication facilities
 - d. property, ground grid, fencing
- 9. Facility Operation Responsibilities of the Parties:**

Each Party will operate those facilities it owns.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**
 - A.** Each Party provides its own SCADA communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party.
 - B.** STEC has access to the AEP Station with a lock in the entrance gate(s).

FACILITY SCHEDULE NO. 68 (continued)
One-Line Diagram



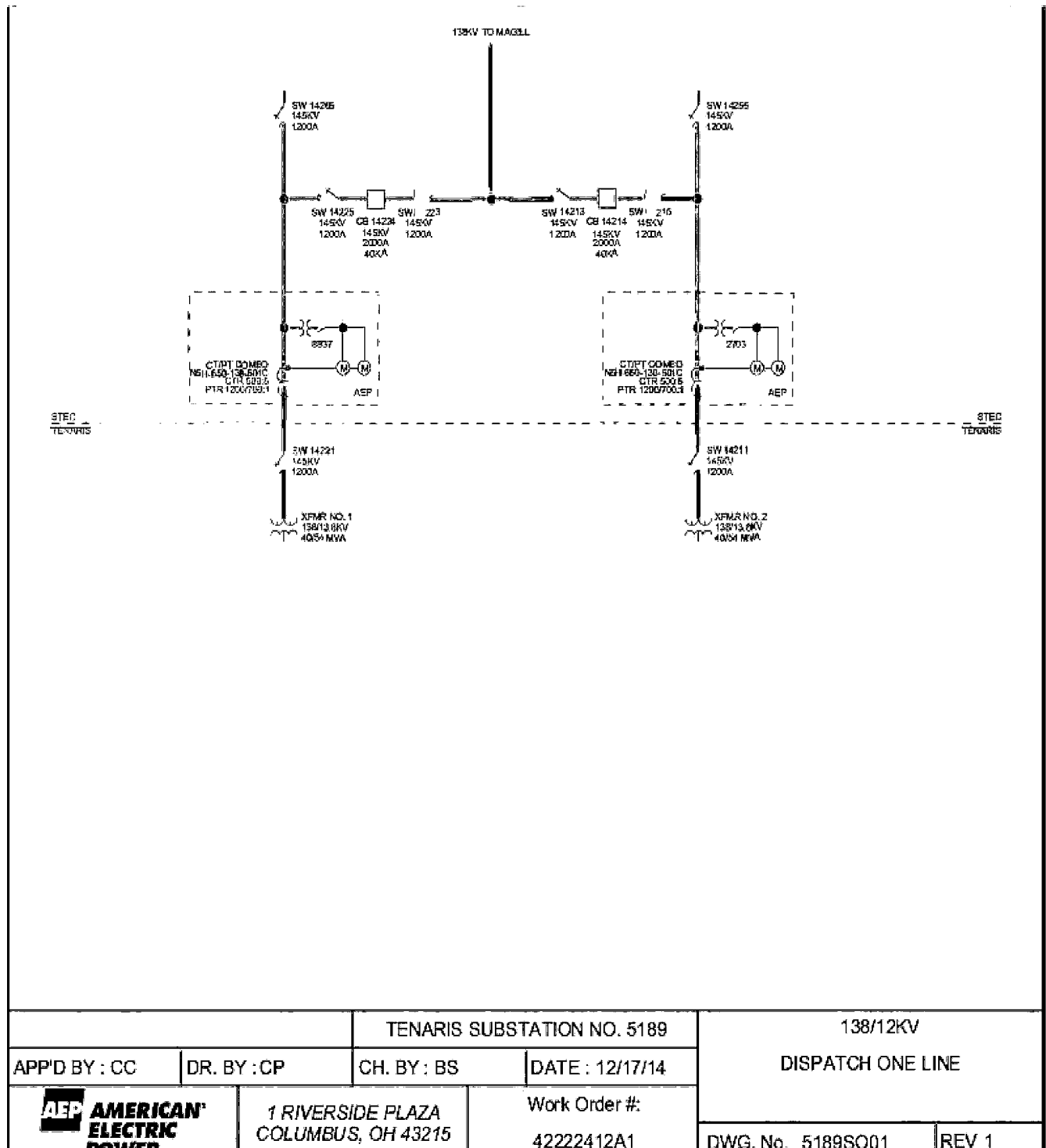
FACILITY SCHEDULE NO. 69

- 1. Name:** **Tenaris**
- 2. Facility Location:** STEC's Tenaris Station ("STEC Station") is located at 307 CR 124, Bay City in Matagorda County, approximately 4.2 miles east of the Bay City, Texas. The two (2) Points of Interconnection are within the STEC Station and are solely for the two (2) sets of AEP 138 kV meters.
- 3. Delivery Voltage:** 138 kV
- 4. Metered Voltage:** 138 kV
- 5. Loss Adjustment Due To Meter Location:** None
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership and Installation Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
the STEC Station and all the facilities within it, except for the facilities owned by AEP below
 - B. AEP agrees that it owns the following facilities:**
two (2) 138 kV metering and metering facilities within the STEC Station
- 9. Facility Operation Responsibilities of the Parties:**

Each Party will operate those facilities it owns.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:**
 - A.** Each Party provides its own SCADA communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party.
 - B.** AEP has access to the STEC Station with a lock in the entrance gate(s).
 - C.** STEC will provide the 138 kV breaker status to ERCOT
 - D.** AEP will provide the 12.5 kV load status to ERCOT

FACILITY SCHEDULE NO. 69 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 70

- 1. Name:** **Kittie West**
- 2. Facility Location:** AEP's Kittie West Substation ("AEP Substation") is located approximately four (4) miles north of the George West, Live Oak County, Texas. The AEP Substation is connected to the STEC's George West 138 to Mathis (STEC) 69kV transmission line. The Point of Interconnection are within the Substation at 1) the 69 kV line-side disconnect switch (3792). More specifically the Point of Interconnection is where the conductors from the 69 kV bus facilities physically contact the 69 kV bus-side of the line-side disconnect switch (3792).
- 3. Delivery Voltage:** 69 kV
- 4. Metering Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** Yes, transformer loss compensation
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership and Installation Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Substation and all the facilities within it, except for those facilities identified as being owned by STEC
 - b. AEP Substation control house
 - c. remote terminal unit ("RTU") and associated communications equipment
 - d. property, ground grid, fencing
 - e. transformer and associated disconnect switches (3792) and protective device (3788)
 - f. station service battery back-up system
 - B. STEC agrees that it owns the following facilities:**
 - a. the George West 138 69 kV transmission lines
 - b. the Mathis (STEC) 69 kV transmission line
 - c. the West George West 69 kV transmission line
 - d. the three (3) inline 69 kV breakers (3106, 3124 and 3112), nine (9) disconnect switches (3104, 3105, 3107, 3111, 3110, 3113, 3125, 3123, 3122) and equipment associated with the 69 kV line terminals
 - e. Bus tie switch (3115)
 - f. RTU and associated communications equipment
- 9. Facility Operation Responsibilities of the Parties:**

Each Party will operate those facilities it owns.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for the maintenance of the facilities it owns

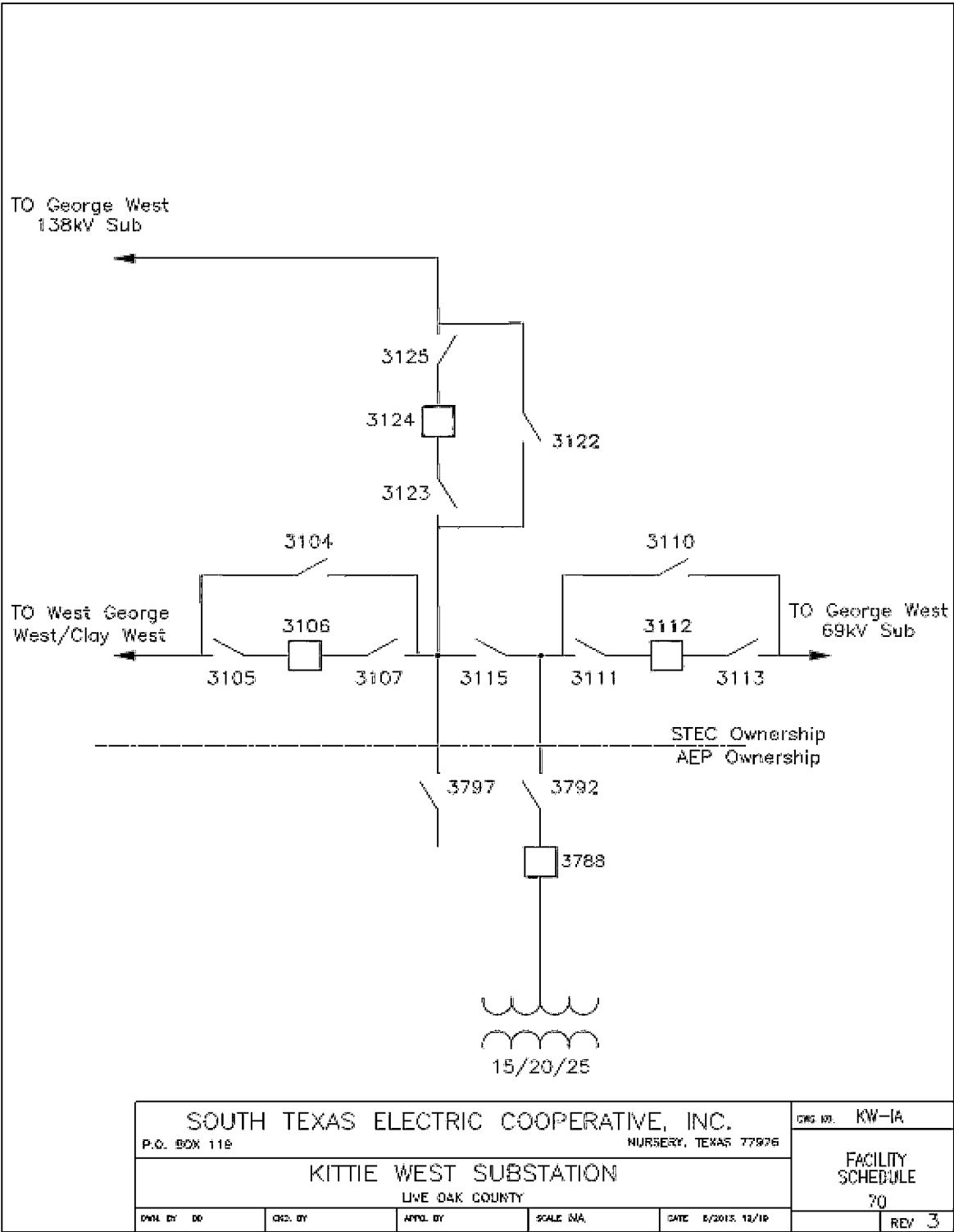
11. Estimated Peak Load: NA

12. Other Terms and Conditions:

- A.** Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party.
- B.** STEC has access to the AEP Substation with a lock in the entrance gate(s).

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FACILITY SCHEDULE NO. 70 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 71

- 1. Name:** **Frio**
- 2. Facility Location:** The AEP Frio Substation (“AEP Substation”) (28° 54’ 58.95” N., 99° 06’ 31.89” W.) is located in Frio County, approximately 0.66 of a mile west of North Pearsall, Texas. The AEP Substation is connected to STEC’s Pearsall to Derby 69 kV transmission line. The two (2) Points of Interconnection are within the Substation at 1) the 69 kV line-side of the disconnect switch (752), and 2) the 69 kV line-side of the disconnect switch (6018). More specifically the Points of Interconnection are where the conductors from the 69 kV bus facilities physically contact the 69 kV bus-side of the switches (6018 and 752).
- 3. Delivery Voltage:** 69 kV
- 4. Metered Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** Yes, transformer loss compensation
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership and Installation Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the Pearsall 69 kV transmission line
 - b. the Derby 69 kV transmission line
 - c. the two (2) inline 69 kV, motor operated, switches (9619 and 9627), and other facilities associated with the 69 kV line terminal
 - d. bus tie switch (9615) and disconnect switch (9623)
 - e. metering equipment (check) connected to AEP’s 12.5 kV instrument transformers via secondary wiring located in the AEP Substation control house
 - f. the remote terminal unit (“RTU”) and associated communication facilities
 - B. AEP agrees that it owns the following facilities:**
 - a. the Substation and all the facilities within it, except for those facilities identified as being owned by STEC above
 - b. the AEP Substation control house
 - c. the RTU and associated communication facilities
 - d. property, ground grid, fencing
 - e. transformer and associated primary disconnect switches (6018 and 752) and protective device (753)
 - f. station service battery back-up system
 - g. 12.5 kV metering and metering facilities

9. Facility Operation Responsibilities of the Parties:

Each Party will operate those facilities it owns.

10. Facility Maintenance Responsibilities of the Parties:

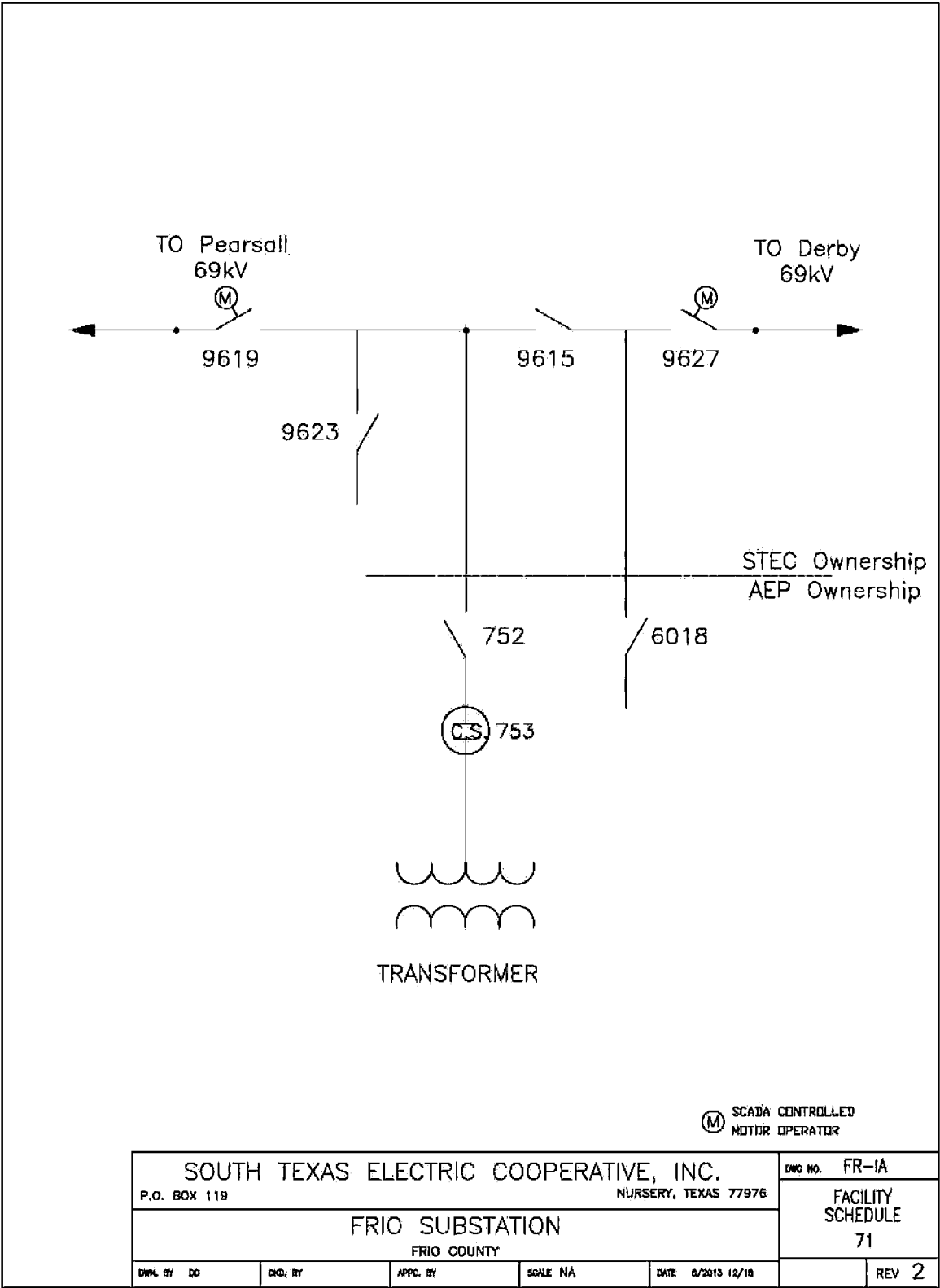
Each Party is responsible for maintenance of the facilities it owns

11. Estimated Peak Load: NA**12. Other Terms and Conditions:**

- A.** Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party.
- B.** STEC has access to the AEP Substation with a lock in the entrance gate.

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FACILITY SCHEDULE NO. 71 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 72

- 1. Name:** **Shropshire**
- 2. Facility Location:** AEP's Shropshire Substation ("AEP Substation") (29° 0.0' 28.42" N., 96° 03' 59.34" W.) is located at 2808 CR 414, Markham in Matagorda County, Texas. The AEP Substation is connected to the STEC Salt Dome to Van Vleck Switch 69 kV transmission line. The two (2) Points of Interconnection are within the Substation at 1) the 69 kV line-side of the disconnect switch (3543), and 2) the 69 kV line-side of the disconnect switch (3467). More specifically the Points of Interconnection are where the conductors from the 69 kV bus facilities physically contact the 69 kV bus-side of the switches (3543 and 3467).
- 3. Delivery Voltage:** 69 kV
- 4. Metering Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** Yes, transformer loss compensation
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership and Installation Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the AEP Substation and all the facilities within it, except for those facilities identified as being owned by STEC
 - b. the AEP Substation control house
 - c. remote terminal unit ("RTU") and associated communication facilities
 - d. property, ground grid, fencing
 - e. transformer and associated primary disconnect switches (3543 and 3467) and protective device (3723)
 - f. the AEP Substation service battery back-up system
 - B. STEC agrees that it owns the following facilities:**
 - a. the Salt Dome to Van Vleck Switch 69 kV transmission lines
 - b. the two (2) inline 69 kV, motor operated, switches (9639 and 9645), and other facilities associated with the 69 kV line terminal
 - c. disconnect switch (9635)
 - d. RTU and associated communication facilities
- 9. Facility Operation Responsibilities of the Parties:**

Each Party will operate those facilities it owns.
- 10. Facility Maintenance Responsibilities of the Parties:**

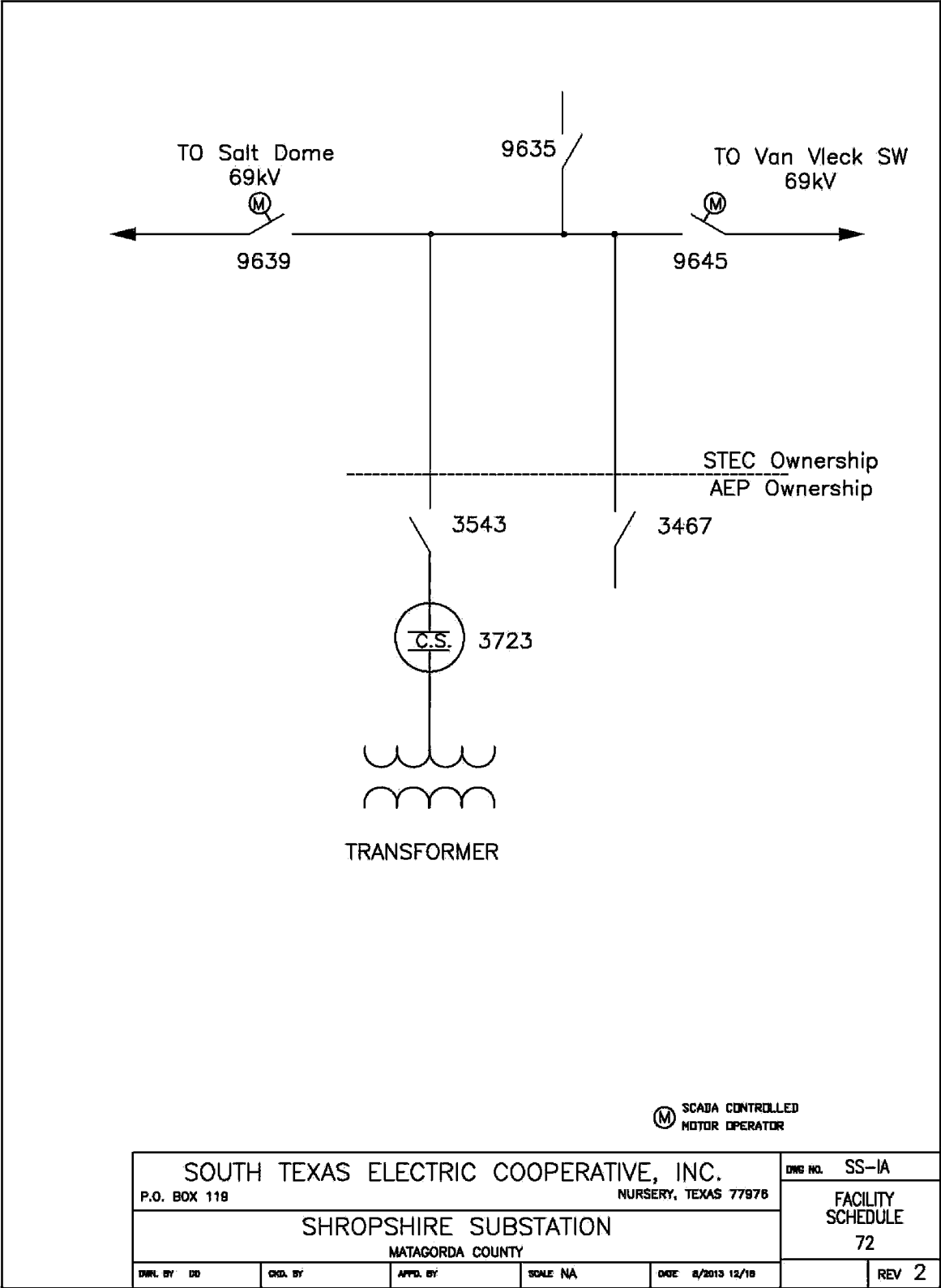
Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** NA

12. Other Terms and Conditions:

- A.** Each Party provides its own Supervisory Control and Data Acquisition (SCADA) communication circuit from its RTU to its control center unless a mutually agreeable alternative solution is reached. Each Party provides and maintains a monitor-only communications port on its RTU for use by the other Party.
- B.** STEC has access to the AEP Substation with a lock in the entrance gate(s).

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FACILITY SCHEDULE NO. 72 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 73

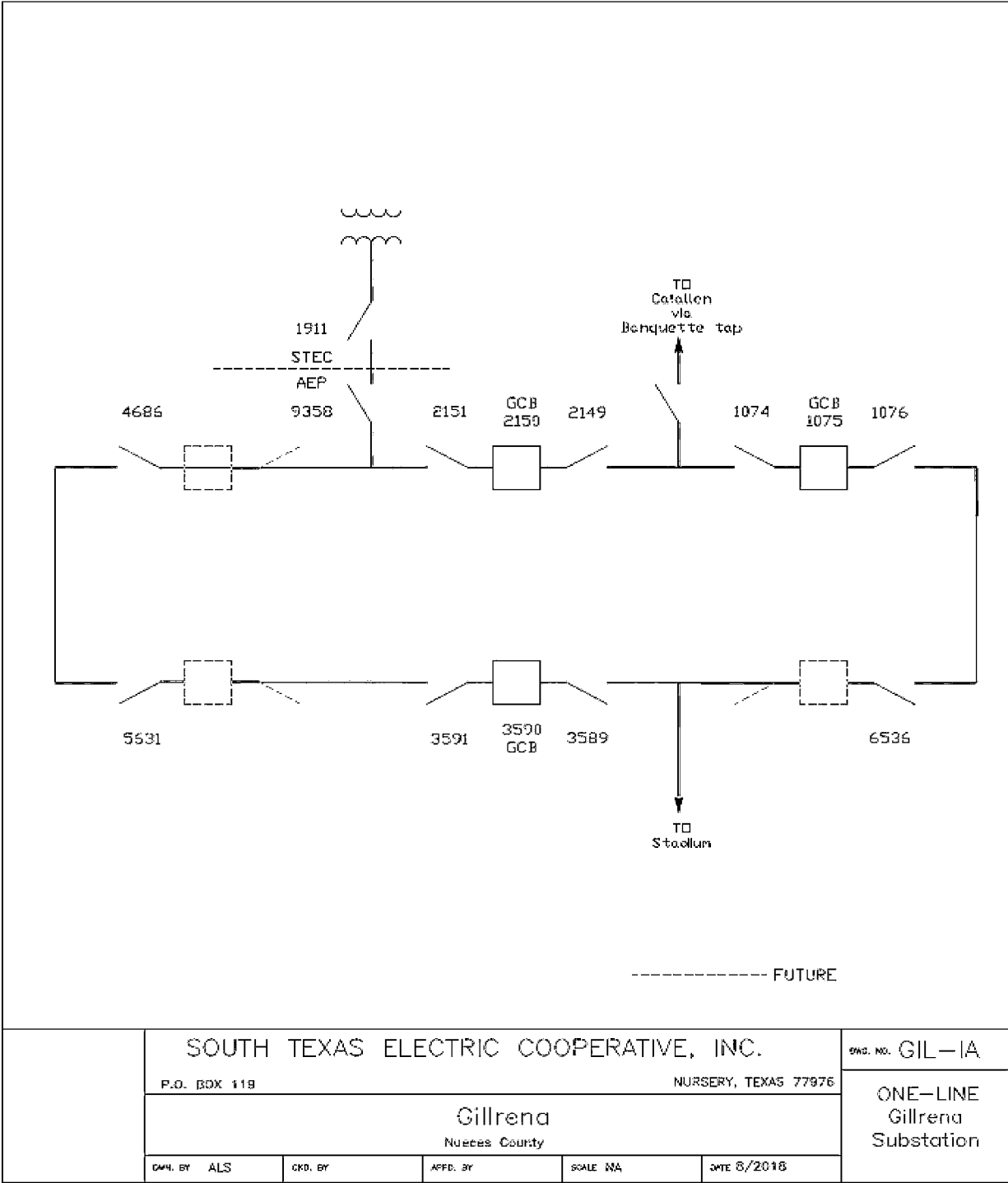
- 1. Name:** Gillrina
- 2. Facility Location:** STEC's Gillrina Substation ("STEC Substation") (27° 47.0' 24.74" N., 97° 51.0' 01.32" W.) is located at 3583 CR 93(Gillrina Rd) in Banquete, Nueces County, Texas. The STEC Substation is connected to AEP's Calallen (STEC) to Stadium 69 kV transmission line. The Point of Interconnection is within the STEC Substation at the 69 kV line-side isolation switch (1911) of STEC's transformer. More specifically the Point of Interconnection is where the conductors from the 69 kV bus facilities physically contact the 69 kV bus-side of the transformer isolation switch (1911).
- 3. Delivery Voltage:** 69 kV
- 4. Metering Voltage:** 12.5 kV within STEC's Substation
- 5. Loss Adjustment Due To Meter Location:** Yes
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line and Three-line Diagram Attached:** Yes
- 8. Facilities Ownership and Installation Responsibilities of the Parties:**
 - A. STEC agrees that it owns the following facilities:**
 - a. the STEC Substation and facilities within it
 - b. 69 kV sectionalizing switch (1911)
 - c. 69 kV fuses and 69/12.5 kV transformer
 - B. AEP agrees that it owns the following facilities:**
 - a. one (1) sectionalizing bus switch (9358)
 - b. one (1) 12.5 kV metering panel located within the STEC Substation.
 - c. three (3) 69 kV breaker ring bus expandable to a four (4) breaker ring bus.
 - d. one (1) drop in control module (DICM)
- 9. Facility Operation Responsibilities of the Parties:**

Each Party will operate those facilities it owns.
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns.
- 11. Estimated Peak Load:** NA
- 12. Other Terms and Conditions:**

AEP has access to the STEC Substation with a lock in the gate(s).

FACILITY SCHEDULE NO. 73 (continued)
One-Line Diagram



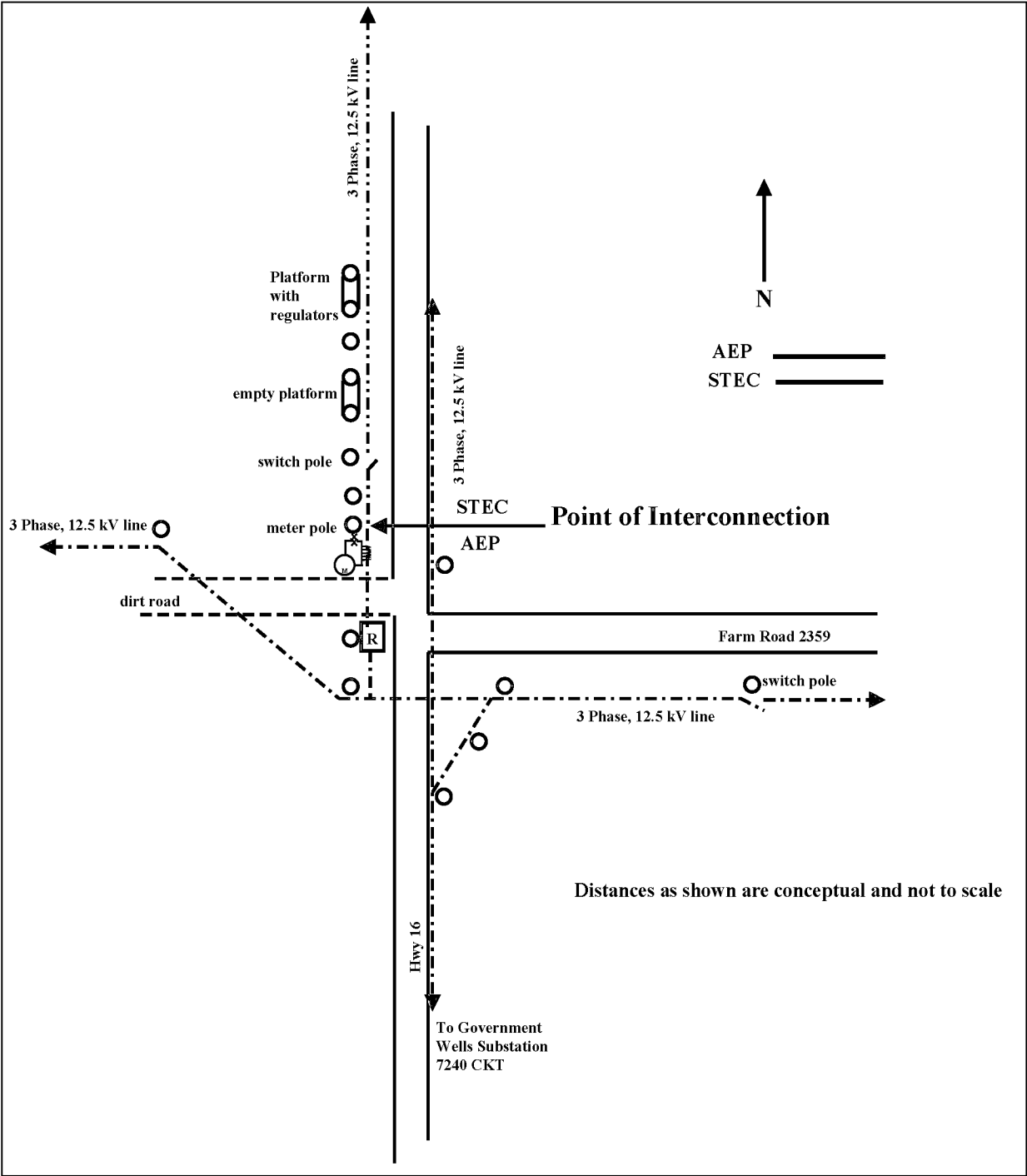
FACILITY SCHEDULE NO. 74

- 1. Name:** Government Wells
- 2. Facility Location:** The Point of Interconnection (“POI”) is located at AEP’s meter pole on the west side of Hwy16 and north of Farm Road 2359, approximately nine (9) miles north of Freer in Duval County. The POI is where the AEP jumpers at AEP’s meter pole physically connect to STEC’s 12.5 kV conductors terminating at the meter pole.
- 3. Delivery Voltage:** 12.5 kV
- 4. Metered Voltage:** 12.5 kV
- 5. Loss Adjustment Due To Meter Location:** No
- 6. Normal Operation of Interconnection:** Closed
- 7. One-Line Diagram Attached:** Yes
- 8. Facilities Ownership Responsibilities of the Parties:**
 - A. AEP agrees that it owns the following facilities:**
 - a. the 12.5 kV meter and metering facilities.
 - b. the meter pole
 - c. the 12.5 kV three-phase distribution feeder circuit (7240) servicing the POI
 - B. STEC agrees that it owns the following facilities:**
 - a. the switch that isolates its portion of the 12.5 kV distribution circuit
 - b. the 12.5 kV three-phase distribution feeder terminating at the POI.
- 9. Facility Operation Responsibilities of the Parties:**

Each Party will operate those facilities it owns
- 10. Facility Maintenance Responsibilities of the Parties:**

Each Party is responsible for maintenance of the facilities it owns
- 11. Estimated Peak Load:** N/A
- 12. Other Terms and Conditions:** None

FACILITY SCHEDULE NO. 74 (continued)
One-Line Diagram



FACILITY SCHEDULE NO. 75

- 13. Name:** **Red Gate**
- 14. Facility Location:** STEC's Red Gate Substation ("STEC Substation") is located approximately 7.5 miles north of Edinburg, Texas, in Hidalgo County. The Point of Interconnection is where AEP's jumper conductors from AEP's North Edinburg to Falfurrias 138 kV transmission line physically connect to STEC's slack-span from STEC's normally open switch (22246) that terminate on AEP double dead-end structure.
- 15. Delivery Voltage:** 138 kV
- 16. Metered Voltage:** None
- 17. Loss Adjustment Due To Meter Location:** Yes
- 18. Normal Operation of Interconnection:** Open
- 19. One-Line Diagram Attached:** Yes
- 20. Facilities Ownership Responsibilities of the Parties:**
- 8.1. AEP agrees that it owns the following facilities:**
- i. the North Edinburg to Falfurrias 138 kV transmission line
 - ii. one (1) double dead-end 138 kV structure in AEP's North Edinburg to Falfurrias 138 kV transmission line
 - iii. the jumpers from AEP's North Edinburg to Falfurrias 138 kV transmission line to STEC's slack-span from STEC's normally open switch (22246) at AEP's double dead-end 138 kV structure.
- 8.2. STEC agrees that it owns the following facilities:**
- i. the approximately 0.25 mile 138 kV transmission line
 - ii. the normally open switch (22246) and switch structure.
 - iii. The slack-span from STEC's normally open switch (22246) to AEP's double dead-end 138 kV structure in AEP's North Edinburg to Falfurrias 138 kV transmission line
 - iv. one (1) 138 kV ERCOT Polled Settlement ("EPS") meter panel with one (1) EPS primary meter and one (1) EPS back up meter within the STEC Substation
 - v. three (3) 138 kV billing accuracy metering units comprised of combination potential transformers and current transformers. The metering will be a three-phase, four-wire system
 - vi. station data repository ("SDR"), and disturbance monitoring equipment ("DME") within the STEC Substation
- 9. Facility Operation Responsibilities of the Parties:**
- Each Party operates all the facilities it owns.
- 10. Facility Maintenance Responsibilities of the Part:**

Each Party is responsible for maintenance of the facilities it owns.

11. Estimated Peak Load: N/A

12. Other Terms and Conditions:

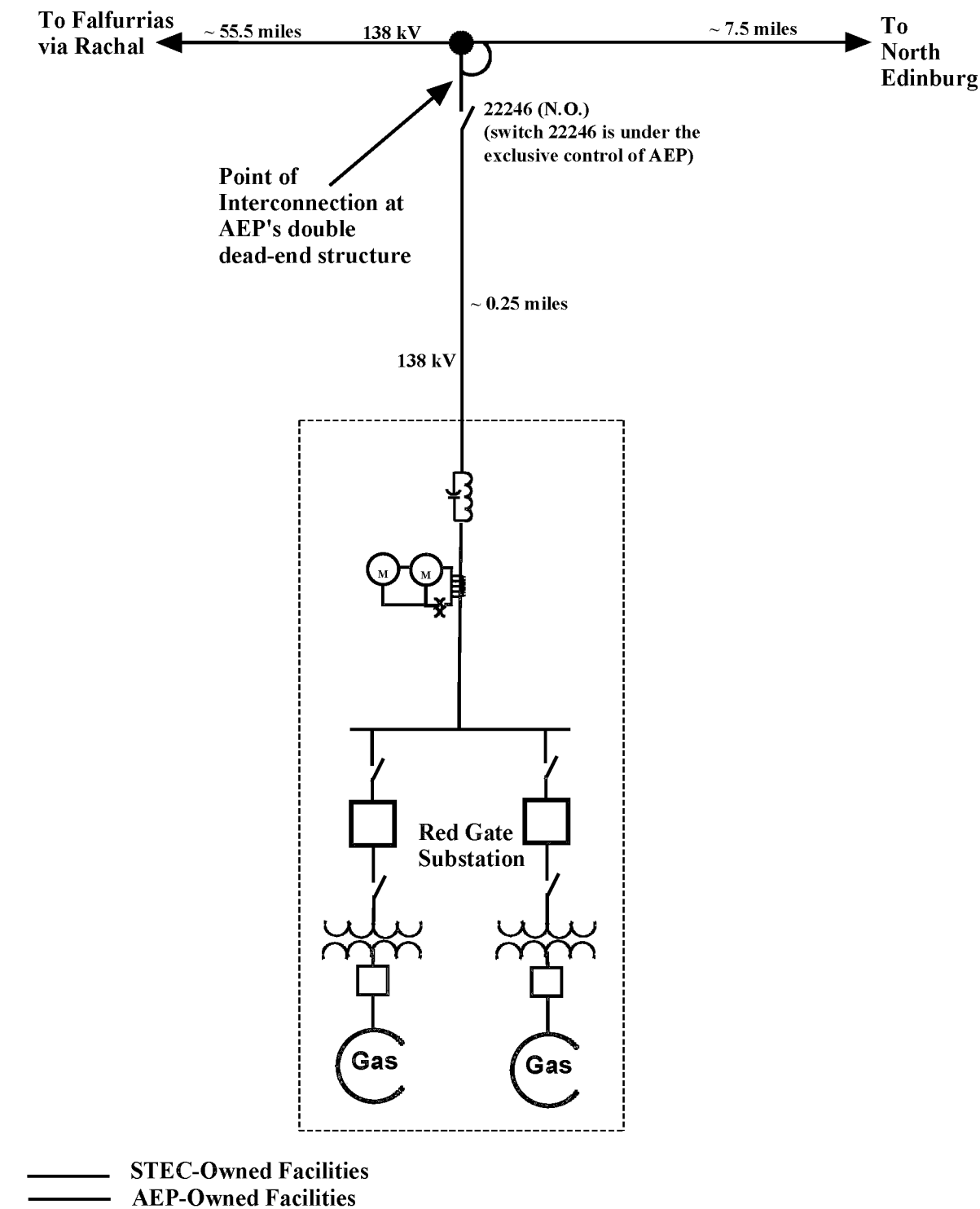
12.1. This normally open tie will be used for ERCOT black start testing to energize a dead line. At no time will the switch be closed into an energized line. Both breakers protecting this section of line, where the point of interconnection will be, shall be open during all times that the normally open switch is closed.

12.2. If the Red Gate Plant is capable of black start operations, STEC will coordinate individual Red Gate Plant start-up procedures consistent with ERCOT Requirements. Any black start operations shall be conducted in accordance with the black start criteria included in the ERCOT Requirements and AEP's Black Start Plan on file with ERCOT. STEC will provide and maintain an emergency communication system that will interface with AEP during a black start condition.

12.3. The normally open disconnect switch (22246) will be under the exclusive control of AEP.

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FACILITY SCHEDULE NO. 75 (continued)
One-Line Diagram



Distances as shown are conceptual and not to scale;
Substation not shown completely.

Redline Tariff Record

SECOND AMENDED AND RESTATED ~~AND AMENDED~~
INTERCONNECTION AGREEMENT
BETWEEN
AEP TEXAS ~~CENTRAL COMPANY~~INC.
AND
SOUTH TEXAS ELECTRIC COOPERATIVE, INC.

DATED: ~~February 19, 2010~~July 12, 2021

~~Amendment #1: March 29, 2010~~
~~Amendment #2: August 18, 2011~~
~~Amendment #3: September 24, 2012~~

SECOND AMENDED AND RESTATED AND AMENDED
INTERCONNECTION AGREEMENT
BETWEEN
AEP TEXAS ~~CENTRAL COMPANY~~ INC.
AND
SOUTH TEXAS ELECTRIC COOPERATIVE, INC.

THIS SECOND AMENDED AND RESTATED INTERCONNECTION AGREEMENT (~~this "Agreement"~~), ~~is made and entered into this 19th day as of February, 2010,~~ July 12, 2021 ("Execution Date") by and between AEP Texas Inc. (successor by merger to AEP Texas Central Company), a Texas corporation ("Company" or "AEP"), and South Texas Electric Cooperative, Inc., also a Texas corporation ("Cooperative" or "STEC"), each ~~singularly~~ sometimes hereinafter referred to ~~herein individually~~ as a "Party" ~~and or both referred to collectively referred to herein as the~~ "Parties".

WITNESSETH:

WITNESSETH

WHEREAS, ~~this Agreement~~ each Party is restated the owner and amended from an earlier operator of transmission and/or distribution facilities and is engaged in the business of transmitting electric energy to the general public within ERCOT; and

WHEREAS, AEP (formerly known as Central Power and Light Company) and STEC entered into an interconnection agreement dated September 2, 1998 ~~between Central Power and Light Company and Cooperative~~ that was amended on June 9, 1999, October 9, 2000, July 19, 2001, April 30, 2002 and May 1, 2003 (the "1998 Agreement"); and

WHEREAS, Medina Electric Cooperative, Inc. ~~and Central Power and Light Company and AEP~~ entered into an interconnection agreement dated November 29, 1999 that was later amended on numerous occasions (the "1999 Agreement"); and

WHEREAS, Magic Valley Electric Cooperative, Inc. ~~and Central Power and Light Company are interconnected under and AEP entered into~~ an interconnection agreement dated July 24, 2001 that was later amended on numerous occasions (the "2001 Agreement"); and

~~WHEREAS, the Central Power and Light Company that entered into the 1998 Agreement, 1999 Agreement and the 2001 Agreement is now known as AEP Texas Central Company; and~~

WHEREAS, Magic Valley Electric Cooperative, Inc. and Medina Electric Cooperative, Inc. joined ~~Cooperative~~ STEC as distribution members in 2005 with certain transmission and substation assets transferred to ~~Cooperative~~ STEC, including interconnection facilities; and

WHEREAS, the Parties ~~desire to consolidate~~ consolidated the 1998 Agreement, the 1999 Agreement and the 2001 Agreement into ~~one a~~ restated and amended interconnection agreement dated February 19, 2010 ("2010 Agreement") between ~~Cooperative and Company~~ the Parties; and

WHEREAS, the ~~Parties agree that the~~ 1999 Agreement and the 2001 Agreement ~~shall be~~ terminated upon execution of this the 2010 Agreement; and

WHEREAS, subsequent to the 2010 Agreement, the Parties ~~recognize~~ amended the 2010 Agreement on March 29, 2010, August 18, 2011 and September 24, 2012 (the "Amended 2010 Agreement"); and

WHEREAS, the Parties have agreed to amend and restate the Amended 2010 Agreement to amend Facilities Schedules No. 1-16, 19-23, 25-44, 46-47, and 49-60 of this Agreement, that provides for the 1998 Points of Interconnection Agreement does not with updated and improved information; and

WHEREAS, The Parties have agreed to amend and restate the Amended 2010 Agreement to terminate Facilities Schedule No. 48 and 53, because the Points of Interconnection are no longer used and useful

WHEREAS, the Parties have agreed to amend and restate the Amended 2010 Agreement by adding new Facilities Schedules No. 61 through 75 to reflect Points of Interconnection that have been added since the Amended 2010 Agreement; and

WHEREAS, the Parties desire to amend and restate the Amended 2010 Agreement to reflect the changes described in the Texas wholesale electricity market or previous paragraphs and to make certain other changes in the interconnection arrangements of the Parties that have occurred since the 1998 Agreement was entered into; and to accommodate these changes; and

~~WHEREAS, the Parties have recently established or shortly will establish several new interconnection facilities between their electrical systems; and~~

WHEREAS, the Parties desire to ~~continue to provide for the interconnection of~~ interconnect their respective transmission and/or distribution systems in the respects, and under the terms and conditions, set forth below;

NOW, THEREFORE, in consideration of the parties premises and of the mutual covenants and conditions herein set forth, the Parties agree to the following as follows:

ARTICLE 1.1 - EFFECTIVE DATE AND TERM

~~1.1~~—This Agreement and any subsequent addendum to this Agreement shall become effective on the date accepted by the Federal Energy Regulatory Commission ("FERC") ~~and/or~~ any other regulatory agency ~~or agencies~~ having jurisdiction ~~and approved by the Administrator of the Rural Utilities Service, if such approval may be required.~~ Company. AEP will request the FERC that this Agreement become becomes effective on the date first written above Execution Date. This Agreement and any subsequent addendum to this Agreement shall remain in effect for a period of ten (10) years from the ~~effective date~~ Effective Date of this Agreement or such longer period as agreed by the effective date of any subsequent addendum Parties through an amendment to this Agreement, which ever is later, and shall continue in effect thereafter, subject to cancellation by provided, however, that either Party party may terminate this Agreement at any time upon three (3) years years' prior written notice to the other Party. Upon termination of this Agreement, unless otherwise agreed in writing by the Parties,