

Welcome to Bluebonnet Electric Cooperative

Bluebonnet Electric Cooperative Inc. was incorporated in 1939 as the Lower Colorado River Electric Cooperative. The name of the Cooperative was changed to Bluebonnet Electric Cooperative, Inc. in 1964, to enhance a separate identity from the Lower Colorado River Authority (LCRA).

Bluebonnet serves all or part of 14 counties, covers over 3,800 square miles and serves more than 120,000 meters. Bluebonnet operates five retail centers: Bastrop, Brenham, Lockhart, Giddings and Manor. Bluebonnet is one of the largest electric cooperatives in Texas. A distribution cooperative, Bluebonnet purchases most of its power wholesale from the LCRA. Bluebonnet operates and maintains approximately 12,000 miles of distribution lines. Bluebonnet owns 26 substations and purchases power at 22 additional substations owned by the LCRA.

Bluebonnet provides this packet to all developers and their agents and it should be used as a guide in planning the installation of electrical equipment for receiving electrical power from the distribution system of Bluebonnet.

The information presented is subject to change and will be revised periodically to reflect any changes which may develop. Please refer to our website at <u>bluebonnet.coop</u> for any additional information as well as an online source of this packet.

Thank you. We look forward to working with you as your electrical provider.

Bluebonnet Project Coordination Staff

Table of Contents

Detailed Commercial Load Data Request Form. Page 5 and 6				
Developer's Checklist	Page 7			
Developer's Fees and Information.	Page 8			
Development Fees				
Easements/Right-of-Way	Page 9			
Location of Facilities.				
Developer Installed Conduit Guidelines and Procedures F				
Developer's Checklist	Page 11			
 Responsibility of Developer. 				
Developer's Fees and Information.				

Bluebonnet Specifications

\triangleright	Ditch and Conduit Placement . J-3	Page 12
\triangleright	Road Crossing. J-4	Page 13
\triangleright	Dimensions and Wiring Single-Phase Transformer. A-2	Page 14
\triangleright	Dimensions and Wiring Single-Phase Sectionalizer. C-2	Page 15
\triangleright	Three-Phase Transformer Pad 45-750 kVA. B-5	Page 16
\triangleright	Three-Phase Transformer Pad 1000-2500 kVA. B-6	Page 17
\triangleright	Dimensions for Three-Phase Sectionalizer 600A. D-2B	Page 18
\triangleright	Secondary Junction Box Construction Standards E-1	Page 19
\triangleright	Secondary Junction Box Dimensions E-2	Page 20
\triangleright	Dimensions for Pad Mounted Switchgear.	Page 21
\triangleright	Right-of-Way Clearing Guide	Page 24

Meter Specifications

(MS-10115) - 15' METER LOOP, Single Phase or Three Phase, 60-200 Amp Meter Loop on Meter Pole.	Page 25
(MS-10119) - 19' METER LOOP, Single Phase or Three Phase, 60-200 Amp Meter Loop on Meter Pole.	Page 26
(MS-102) - Single phase or Three Phase, 60-200 Amp Meter Loop on Transformer Pole.	Page 27
(MS-103MT) - Single Phase or Three Phase, 60-200 Amp Meter Loop on	Page 28 Revised 10.03.23

building, Mast Type.

Meter Specifications

	(MS-103WT) - Single Phase or Three Phase, 60-200 Amp Meter Loop on Building, Wall Type.	Page 29
\blacktriangleright	(MS-105) - Single Phase or Three Phase, 60-200 Amp Multiple Meters on Rack or building not to exceed a Total of 800 Amps.	Page 30
	(MS-106) - Single Phase or Three Phase, 60-200 Amp Meter on building.	Page 31
۶	(MS-106A) - Single Phase or Three Phase, 60-200 Amp Meter on building or Rack.	Page 32
	(MS-107MT) - Single Phase, 400 Amp Service with Meter Loop on building, Mast Type.	Page 33
	(MS-107WT) - Single Phase, 400 Amp Service with Meter Loop on Building, Wall Type.	Page 34
	(MS-108) - Single Phase, 400 Amp Service on Meter Rack or Building with K Base bolted in Meter Socket.	Page 35
	(MS-112B1) - Single Phase >400-800 Amp, Service on building with CT Meter Metering on Building or Rack.	Page 36
۶	(MS-112B3) - Three Phase >200-800 Amp, Service on building with CT Meter Metering on Building or Rack.	Page 37
۶	(MS-113B1) - Single Phase 400-800 Amp Service with CT Metering on Rack.	Page 38
	(MS-113B3) - Three Phase 200-800 Amp Service with CT Metering on Rack.	Page 39
	(MS-114A1) - Single Phase 400-800 Amp, Multiple Metering Points with CT Metering on Building.	Page 40
	(MS-114B3) - Three Phase 400-800 Amp, Multiple Metering Points with CT Metering on Building.	Page 41
	(MS-115) - Single Phase 400-800 Amp or Three Phase 200-800 Amp Service with Multiple Metering Points on Building.	Page 42
	(MS-201) - Single Phase or Three Phase, 60-200 Amp URD Service on Rack or Building.	Page 43
	(MS-202A1) - Single Phase Greater than 400 Amp, Underground with Multiple Metering Points with on Building.	Page 44

	(MS-202B3) - Three Phase Greater than 200 Amps, Underground with Multiple Metering Points with on Building.	Page 45		
	(MS-203) - Single Phase, 400 Amp URD Service on Rack or Building with K Base Bolted in Meter Socket.	Page 46		
	(MS-204A3) -Three Phase Greater than 200 Amp URD Service with Disconnect on Rack or Building.	Page 47		
	(MS-204B1) - Single Phase Greater than 400 Amp or with CT Metering on Building or Rack.	Page 48		
	(MS-204B3) - Three Phase Greater than 200 Amp with CT Metering on Building or Rack.	Page 49		
Mete	r Specifications			
	(MS-205) - Single Phase or Three Phase, 60-200 Amp URD Gang Mounted Meters on Rack or Building.	Page 50		
\triangleright	(MS-207) - Single phase, 60-200 Amp Underground Multi-Pack Meters on Building.	Page 51		
	(MS-207B) -Three Phase 60-200 Amp URD Multi-Pack Meters & Three Phase Less or Greater Than 200 Amp Service on Building.	Page 52		
\triangleright	(MS-301A) - Three Phase 480 Volt 3W Corner Ground Delta 60-200 Amps.	Page 53		
\triangleright	(MS-301C) - Three Phase 480 Volt 3W Corner Ground Delta 60-200 Amps.	Page 53		
\triangleright	(MS-302) - Temporary Meter Loop for Underground.	Page 55		
	(MS-303) - Single or Three Phase 60-200 Amp Temporary Meter Loop for Transformer and Service Poles.	Page 56		
Material StandardsPage 57				
Time	Timeline and ContactsPage 58			



Bluebonnet Electric Cooperative, Inc. Detailed Commercial Load Data

Bluebonnet Electric Cooperative, Inc. Attn: Engineering Department 3198 E. Austin Street Giddings, TX 78942 Phone: (800) 842-7708

	Filolie. (800) 842-7708		
BBEC Internal Usage Only			
Customer #	W.O. #		
Email Address:			
Applicant Name:	Phone No:		
Service Address:		Date:	
REQUESTED ELECTRICAL SERVIC	E Service/Project Name:		
PRIMARY SERVICE	SECON	NDARY SERVICE	
Overhead	\Box Over		
□ Underground		erground	
		6	
REQUESTED VOLTAGE			
□ 120/240 - 1ø 3 Wire	□ 240/4	480 - 1ø 3 Wire	
• Single-phase transformers are limited to (1) 100 k	VA transformer per overhead service & ((1) 167 kVA pad mount transformer per	
underground service.	—		
□ 208/120 - 3ø 4 Wire Wye		277 - 3ø 4 Wire Wye	
□ 240/120 - 3ø 4 WIRE DELTA (O/H bank	as only) 🗌 480 -	- 3ø 3 WIRE DELTA	
	(O/H Banks Only Corner Grounded)		
• Three-phase transformers are limited to (3) 100 k			
□ Primary Meter 12.47/7.2kV or 24.9/14.4k	V		
MAIN DISCONNECT (AMPERES) New_	Existing (I	If Any)	
Total connected load in Amps (Should Match Page 2 Total).			
SECONDARY SERVICE ENTRANCE CONDUCTORS			
□ Copper Wire □ Aluminum	Wire		
Wire Size Qu	antity per phase Qua	antity for the neutral	
• Each Phase MUST be sized to accommodate the		BREAKER installed.	
• Commercial service MUST pull in a full size neutral whether it will be used or not.			
SECONDARY SERVICE ENTRANCE	CONDUIT		
Size of Conduit	_ in. Quantity of Cond	duit	

Building Size:	SQ.FT.		
Hours of operation:	Day	ys of the week:	
Motors (Other Than Air Cond	litioning)		
		tarters or VFD's(Variable Frequenc t Electric's Engineering Department	
1ø 🗆 3ø 🗖 🔄	HP	Quantity	(Amps)
1ø 🗆 3ø 🗆	HP	Quantity	(Amps)
1ø 🗆 3ø 🗖 🔄	HP	Quantity	(Amps)
1ø 🗆 3ø 🗆	HP	Quantity	(Amps)
1ø 🗆 3ø 🗖 📃	HP	Quantity	(Amps)
Total Motor	HP	(Amps)	
<u>Total Load on System</u>			
Heating Load	(Ar	nps)	(kW)
A/C Load	(Ar	nps)	(kW)
Lighting Load	(Ar	nps)	(kW)
Motor Load	(Ar	nps)	(kW)
Other Load	(Ar	nps)	(kW)
Total Load	(Ar	nps)	(kW)
LICENSED ELECTRICIAN/	ENGINEER SIGNATURE: _		
PRINT NAME:		LICENSE #	
DATE:		PHONE #	

Developer's Checklist

Responsibility of Developer:

- □ Developer must fill out a Development Information Request Form and submit to Bluebonnet along with design fee if required.
- Developer is responsible for confirming all Bluebonnet easement requirements with Bluebonnet prior to platting.
- □ Developer must have an engineering firm submit preliminary plan of development in digital (AutoCAD) format to Bluebonnet Engineering Department. These plans must include streets, wet utilities, and grading plans as well as any other utilities planned for said development.
- □ A design/re-design fee of \$50/hr. could be required either prior to or following the design process. This decision will be made at the discretion of Bluebonnet on a case by case basis. These fees are non-refundable and are subject to revision at Bluebonnet's discretion.
- □ Prior to Bluebonnet construction, two (2) hard copies of the approved plat must be submitted.
- Developer must provide and install all underground conduits at road crossings in the designated locations per Bluebonnet Crossing Plans, and if applicable, all electrical conduits in designated locations per Bluebonnet Construction Plans. See Bluebonnet Specifications. **If project design includes overhead primary lines and transformers in conjunction with underground meter pedestals, Developer may install road crossings ONLY. Bluebonnet contractors shall complete installation from road crossings to point of termination and this labor and material will be figured into the respective Contribution In Aid of Construction (CIAC).**
- □ Developer is responsible for following Bluebonnet inspection policies and procedures prior to and during conduit installation if using his own contractor (see Page 8).
- □ Property pins must be set and clearly visible at all property corners, at developer's expense, prior to Bluebonnet commencing construction.
- Developer is responsible for submitting contribution-in-aid of construction (CIAC) to cover Bluebonnet's construction costs prior to Bluebonnet commencing construction. Bluebonnet department will contact developer to communicate planned construction start date and duration following project being released for scheduling.
- Developer is responsible for all right-of-way clearing and grubbing to Bluebonnet specifications.
 Bluebonnet will clear the right-of-way for proposed overhead facilities for an additional charge (\$10.00 per linear foot). See Bluebonnet Specifications.
- Developer is responsible for ensuring conduit contractor and/or subcontractor adherence to all Bluebonnet Construction Specifications at all times.
- □ Developer is to provide ALL materials necessary for the conduit system he installs for his Bluebonnet Underground System. Bluebonnet will own these materials after proper installation is certified by a Bluebonnet Inspector.

Developer's Fees and Information

Development Fees

- 1. A design/re-design fee of \$50/hr. could be required either prior to or following the design process. This decision will be made at the discretion of Bluebonnet on a case by case basis. These fees are non-refundable and are subject to revision at Bluebonnet's discretion.
- 2. Every request for design and every alteration to all initial requests for design services may be considered as an individual request and, therefore are subject to additional fees to be determined by Bluebonnet.
- 3. When the developer or prospective developer enters into a line extension agreement with Bluebonnet for service, monies received for engineering design estimates of service will be applied to the cost of construction. Bluebonnet's Line Extension Policy can be found in the enclosed Member Handbook or on the "Residential Development" link on our website at www.bluebonnetelectric.coop
- 4. If the developer or prospective developer does not notify Bluebonnet within a 180 day period of initial design with the intent to proceed, then any design fees paid to date will be forfeited and the prospective project will be treated as new.
- 5. A maintenance fee of \$1 per linear foot of trench will be required at the time of contribution by the developer to cover the cost of any necessary repairs in the first year following the completion of Bluebonnet facilities installation.

Additional Notes

Underground electrical lines in residential developments (including apartment complexes and any commercial service) shall be looped to accommodate the ability to feed from two or more directions so that in the event of an outage the most number of customers can be provided power until the failed line or equipment is restored. Avoid looping back in the same ditch. Never loop back to the same riser pole, sectionalizing cabinet, or switchgear.

- 1. Bluebonnet shall be granted, at no cost and in writing suitable for recording, all rights-ofway and easements necessary to serve member, overhead or underground for the erection, maintenance, repair, replacement, removal or use of all wires, poles, machinery, fixtures, or equipment needed to supply and deliver electric service to the member.
- 2. A signed easement granted to Bluebonnet will be required before construction will commence. Once Bluebonnet facilities are installed, the easement will adhere to the facilities, from the installation point with a 15 foot easement on each side of the centerline (30 feet of easement) of overhead facilities and 20 foot easement (10 feet on each side of the centerline), for underground facilities.
- 3. Only Bluebonnet equipment or material is allowed to be attached to Bluebonnet property, except where said equipment and/or materials is required to provide electrical service and said equipment and/or material has been authorized by Bluebonnet.
- 4. Please note that Bluebonnet facilities must be installed in easements that are exclusive to Bluebonnet with no other utilities being allowed in these easements except for buried crossings.

Location of Facilities

All overhead or underground distribution lines and equipment will be located in an area that is easily accessible by Bluebonnet vehicles and personnel.

The main electrical disconnect for each electrical service shall be installed on the exterior of the building, in a location approved by Bluebonnet Electric. (2015 International Fire Code, 509.3)

Developer Installed Conduit Guidelines and Procedures

- 1. Developer will review Bluebonnet's construction specifications prior to trenching and conduit installation (specifications included in this document). Developer is encouraged to contact Bluebonnet inspector listed in #3 below with any questions.
- 2. Developer must provide and install all underground material in the designated locations per Bluebonnet's design. Bluebonnet will provide and install the associated hardware such as sectionalizers and transformers that will be located above ground.
- 3. Developer will contact the Bluebonnet Project Coordinator when conduit and stub-ups are installed prior to filling the ditch (open ditch inspection). Bluebonnet will respond within 48 hours of notification. Please choose from the list of Bluebonnet Project Coordinators to schedule an inspection.
 - Project Coordinator Rodney Gerik, may be reached at (979) 540-8814 (cell), or at rodney.gerik@bluebonnet.coop.
 - Project Coordinator Shawn Ely, may be reached at (979) 540-7361 (cell), or at shawn.ely@bluebonnet.coop.
 - Project Coordinator Dalton Voight, may be reached at (512) 629-3771 (cell), or at <u>dalton.voight@bluebonnet.coop</u>
 - Project Coordinator Shane Mathison, may be reached at (979) 542-8540, or at <u>shane.mathison@bluebonnet.coop</u>.
 - Project Coordinator Jorge Varillas, may be reached at (512) 764-2838, or at Jorge.Varillas@bluebonnet.coop.
 - Project Coordinator Scott Iselt, may be reached at (979) 542-8522, or at <u>Scott.Iselt@bluebonnet.coop</u>.
 - Project Coordinator Wyatt Rosenauer, may be reached at (512) 332-8665, or at <u>Wyatt.Rosenauer@bluebonnet.coop</u>.
- 4. Trenches will remain open until inspected and approved by the Bluebonnet inspector. Upon inspection, developer will be advised as to what may or may not be backfilled.
- 5. Bluebonnet retains the right to terminate any conduit installation if inspection reveals noncompliance with Bluebonnet inspection policies, procedures, or specifications until said issues are resolved and approved through re-inspection.
- 5. Equipment location and conduit stubs must meet clearance requirements on all sides as outlined in Bluebonnet Specifications.

6. Developer or his/her contractor is responsible for acquiring any and all permits and remitting any necessary fees for trench and conduit installation (excavation plans, traffic control plans, digging permits, etc.)

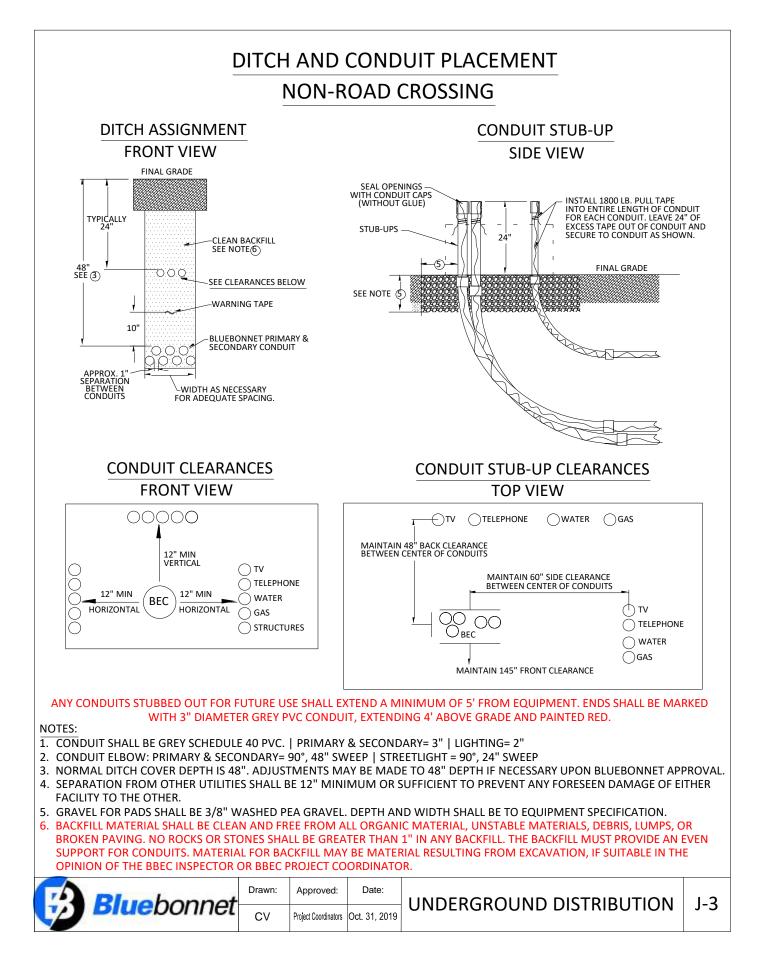
Developer's Checklist

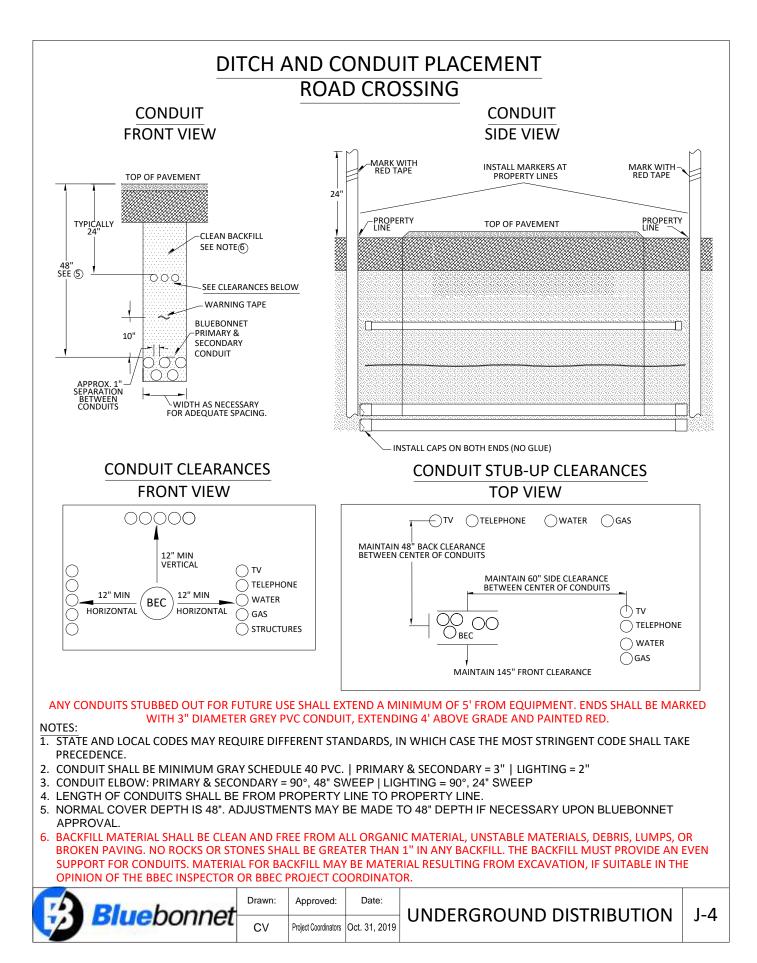
Responsibility of Developer:

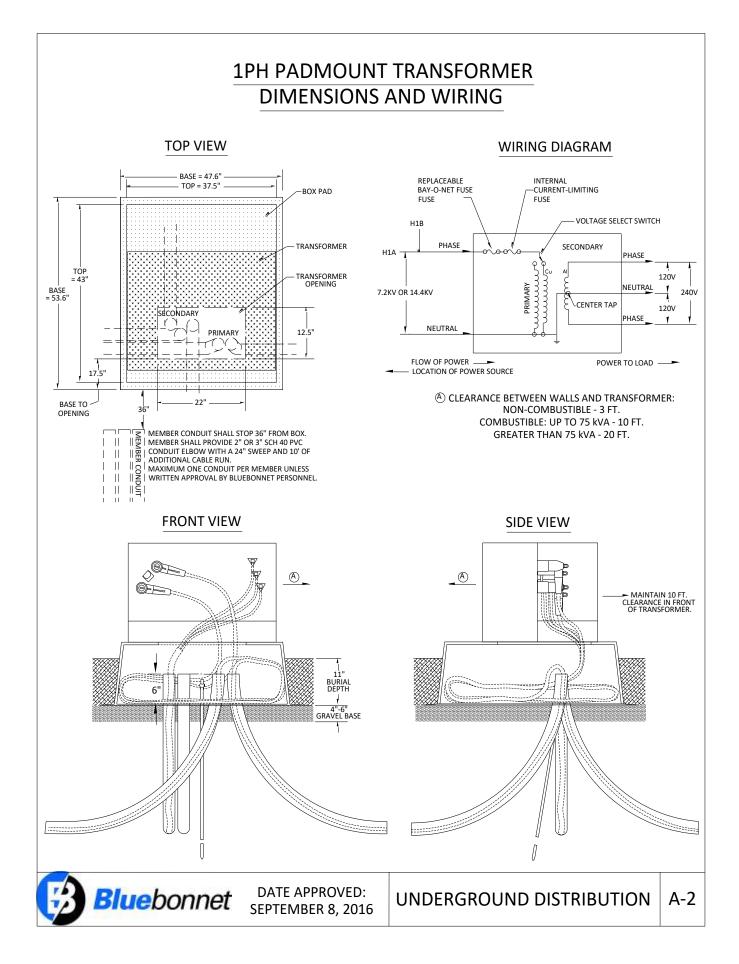
- Developer is responsible for confirming all easement requirements with Bluebonnet prior to installation.
- □ Developer is responsible for following Bluebonnet's inspection policies and procedures prior to and during conduit installation.
- Developer is responsible for all right-of-way clearing or grubbing to Bluebonnet's specifications.
- Developer is responsible for adherence to all Bluebonnet's Construction Specifications.

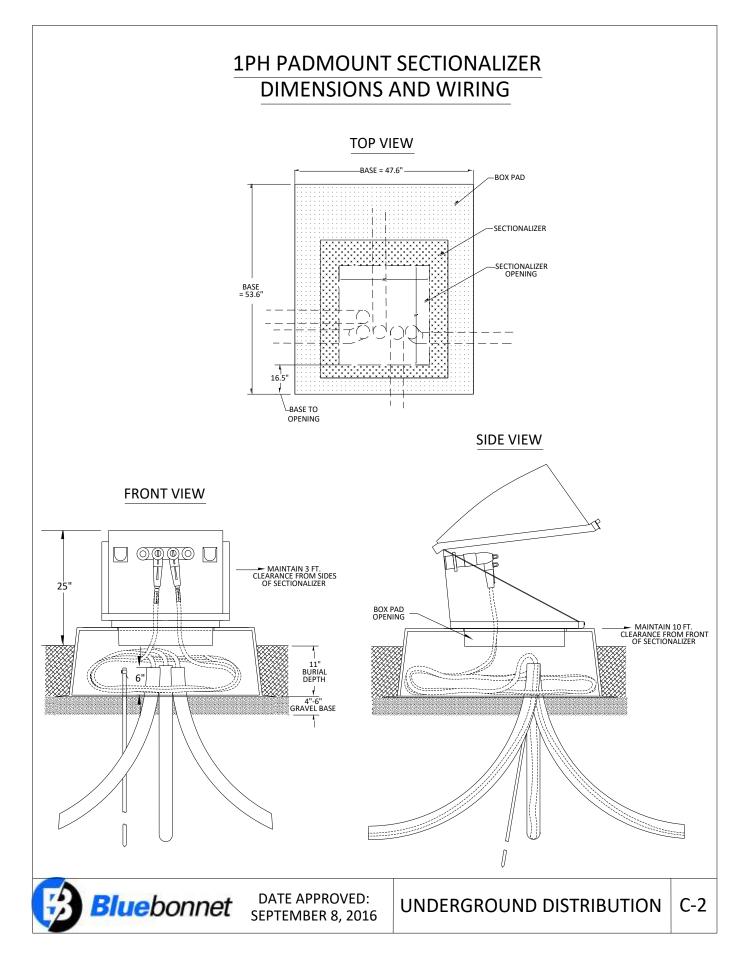
Developer's Fees and Information

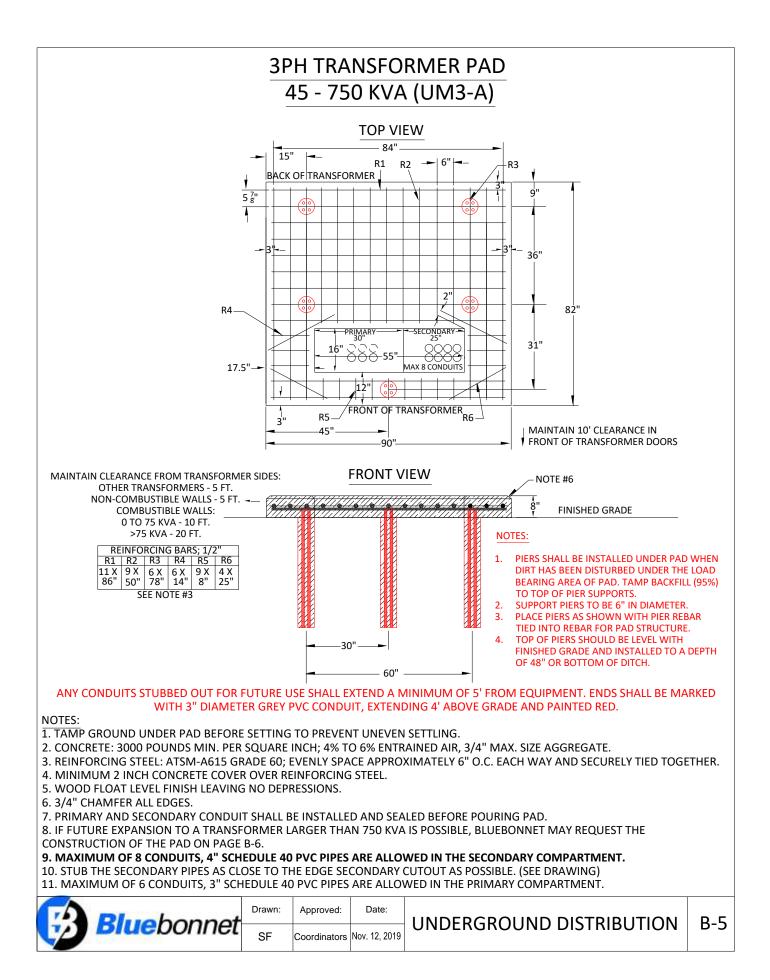
- 1. Every request for alteration to initial requests for design services are subject to additional fees to be determined by Bluebonnet.
- 2. Bluebonnet's Line Extension Policy can be found in the Member Handbook.
- 3. A maintenance fee of \$1 per linear foot of trench will be required at the time of contribution by the member to cover the cost of any necessary repairs in the first year following the completion of Bluebonnet's underground facilities installation.
- 4. Cost estimate given to developer will be good for **60** days.

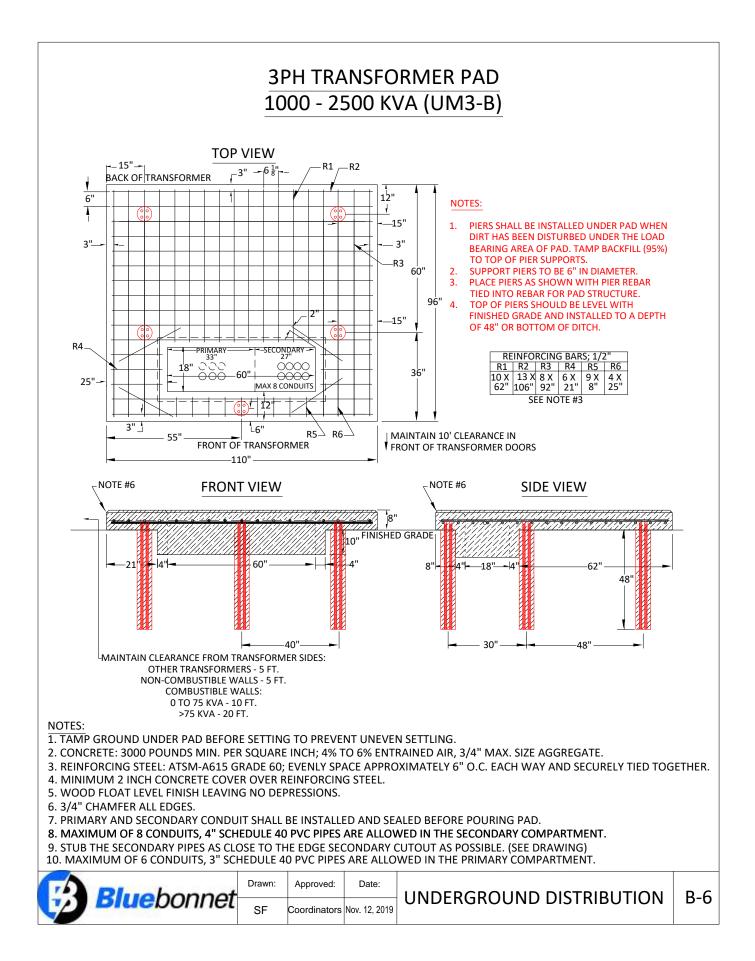


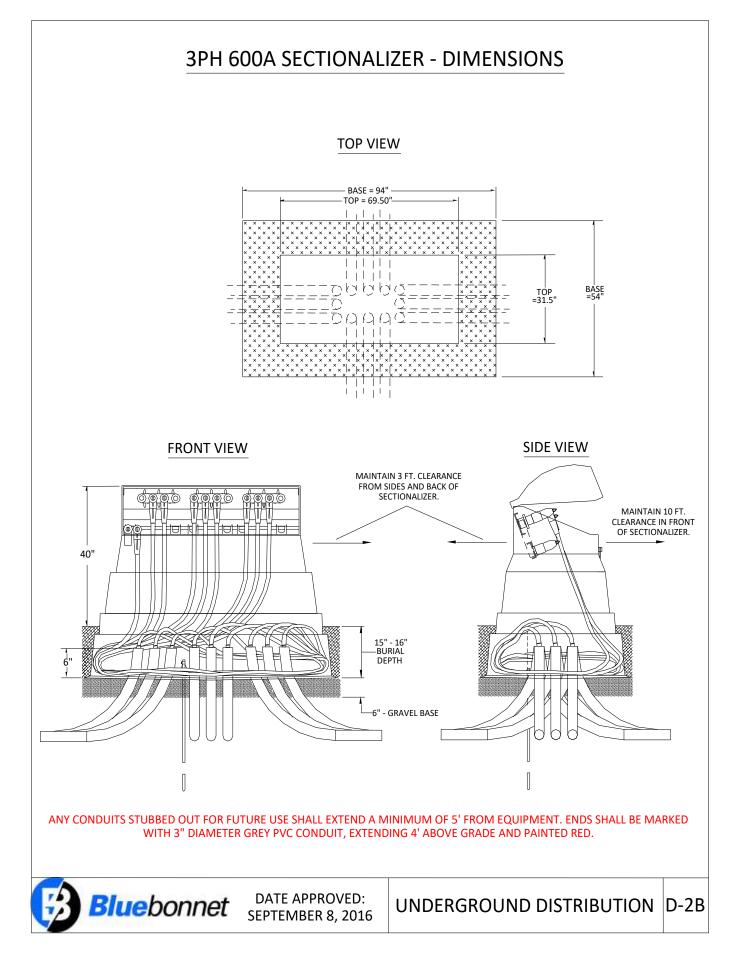


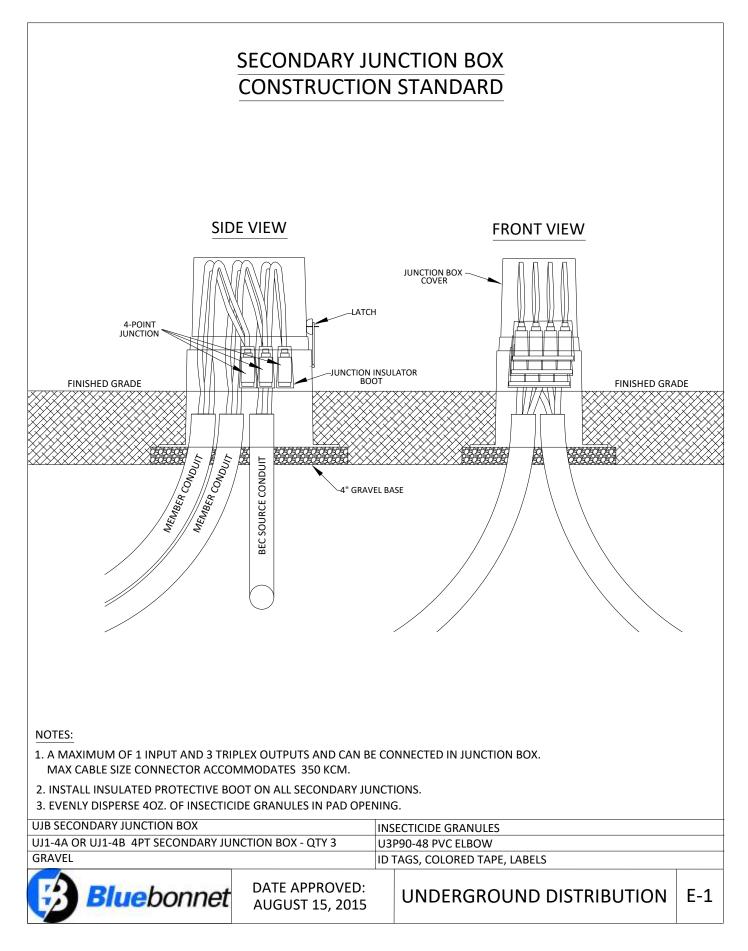


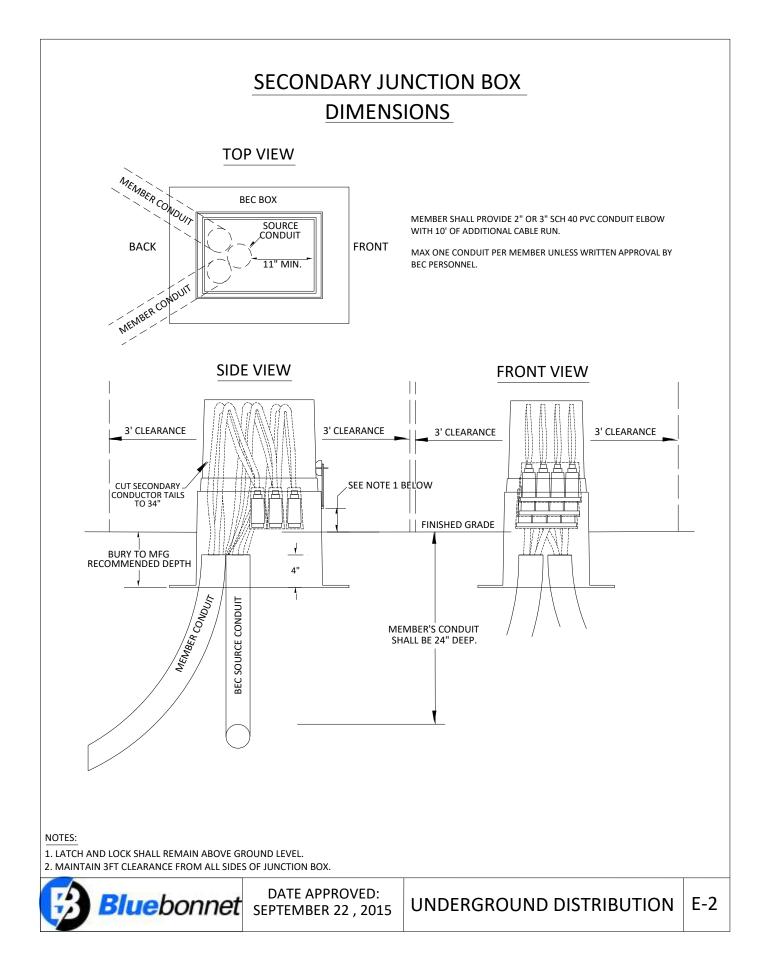


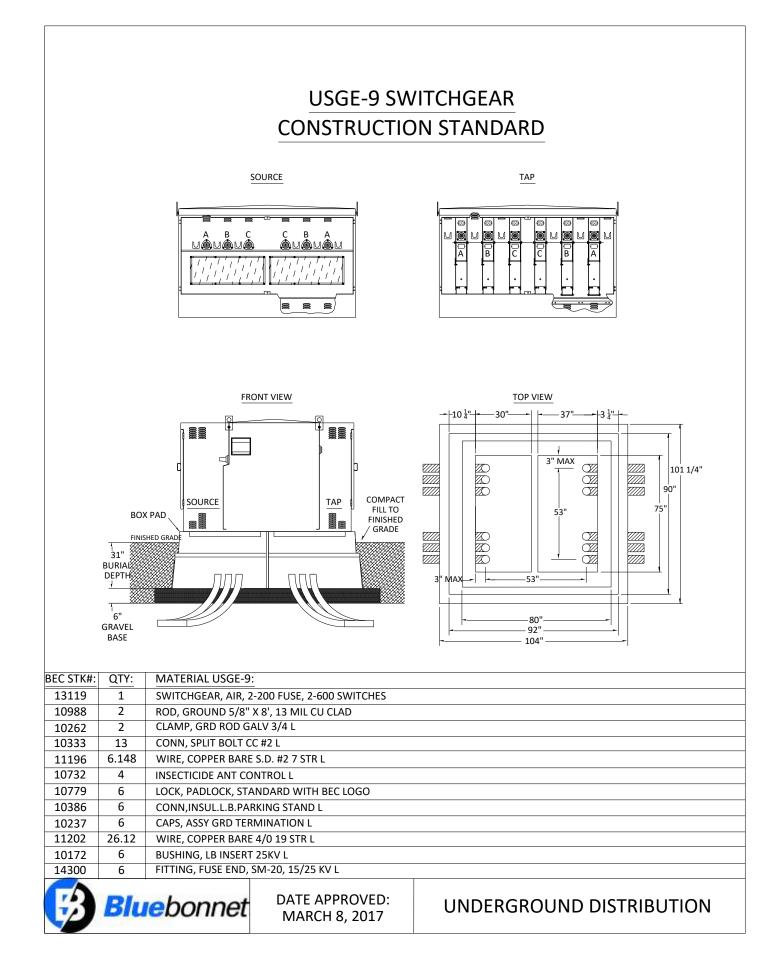


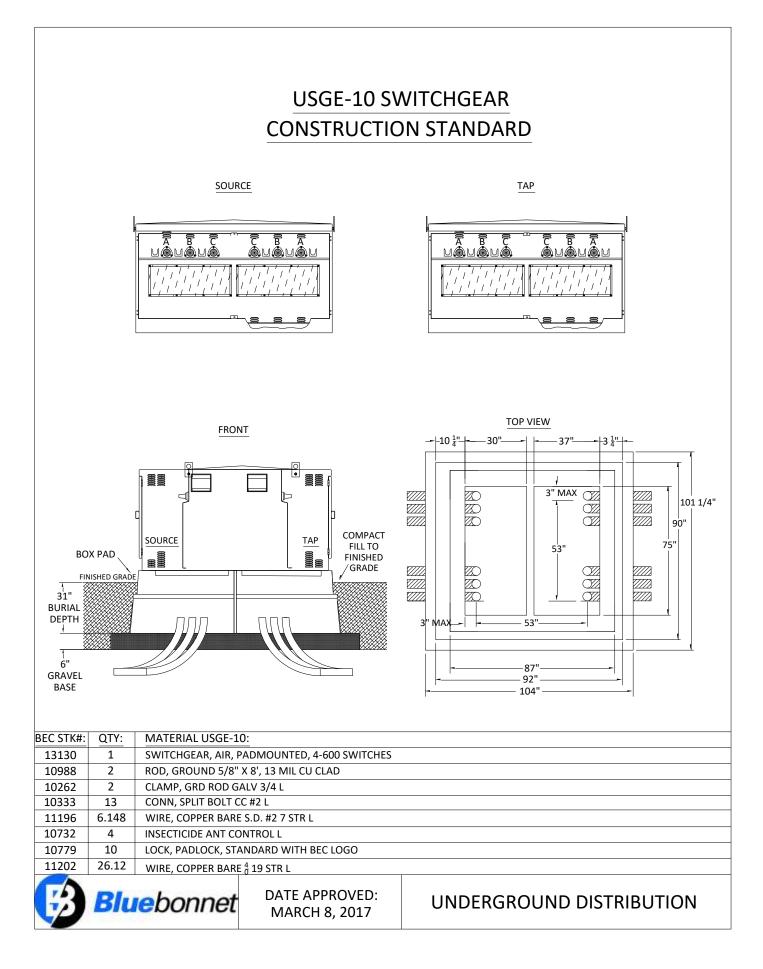




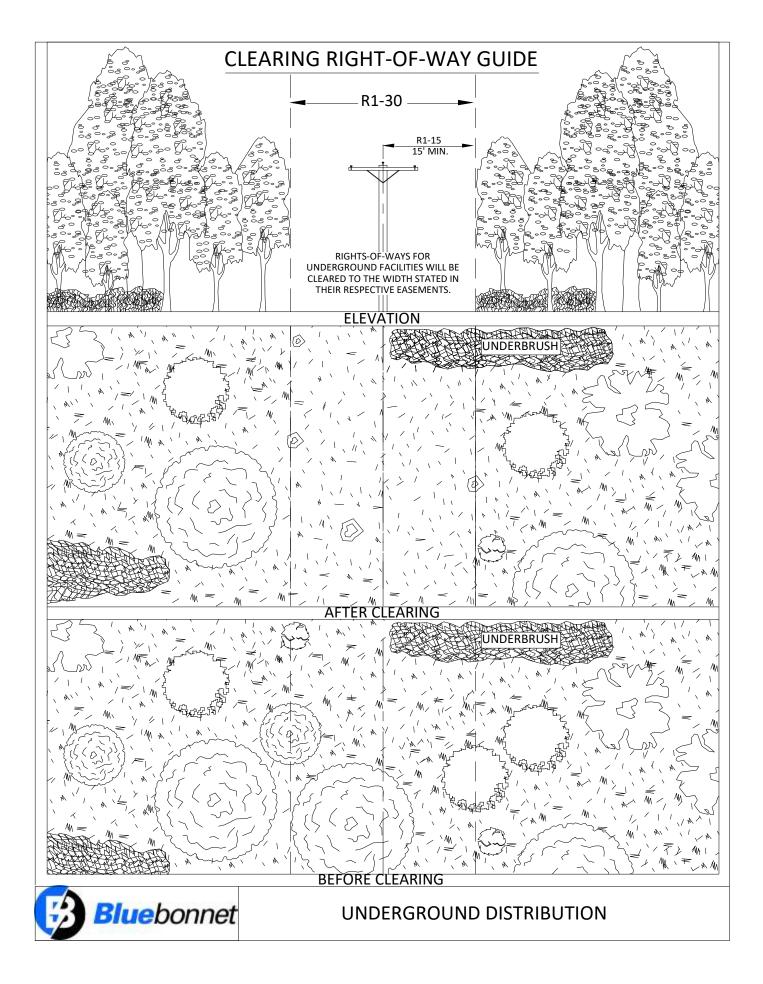


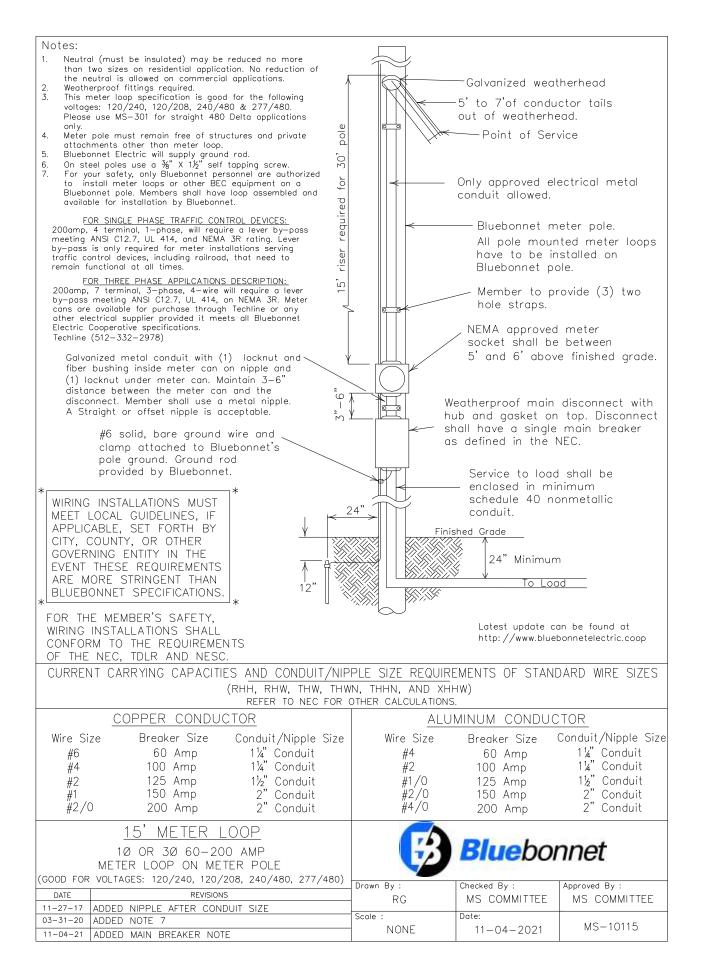






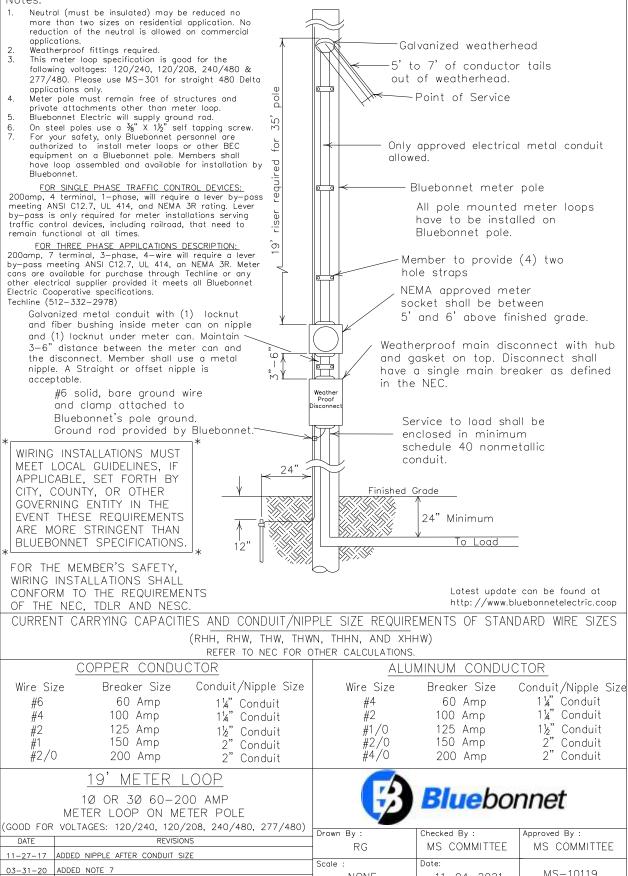
	PME-11 SWITCHGEAR CONSTRUCTION STANDARD		
		SOURCE	ТАР
G	BOX PA	FRONT	$\begin{array}{c} \hline \text{DP VIEW} \\ \hline \\ $
BEC STK#:	QTY:	MATERIAL USGE-9:	
12971	1	SWITCHGEAR, AIR, 1-200 FUSE, 3-600 SWITCHES	
10988	2	ROD, GROUND 5/8" X 8', 13 MIL CU CLAD	
10262	2	CLAMP, GRD ROD GALV 3/4 L	
10333	13	CONN, SPLIT BOLT CC #2 L	
11196	6.148	WIRE, COPPER BARE S.D. #2 7 STR L	
10732	4	INSECTICIDE ANT CONTROL L	
10779	8	LOCK, PADLOCK, STANDARD WITH BEC LOGO	
10386	3	CONN,INSUL.L.B.PARKING STAND L	
10237	3	CAPS, ASSY GRD TERMINATION L	
11202	26.12	WIRE, COPPER BARE 4/0 19 STR L	
10172	3	BUSHING, LB INSERT 25KV L	
14300	3	FITTING, FUSE END, SM-20, 15/25 KV L	
B	Blu	DATE APPROVED: MARCH 8, 2017	UNDERGROUND DISTRIBUTION





Notes:

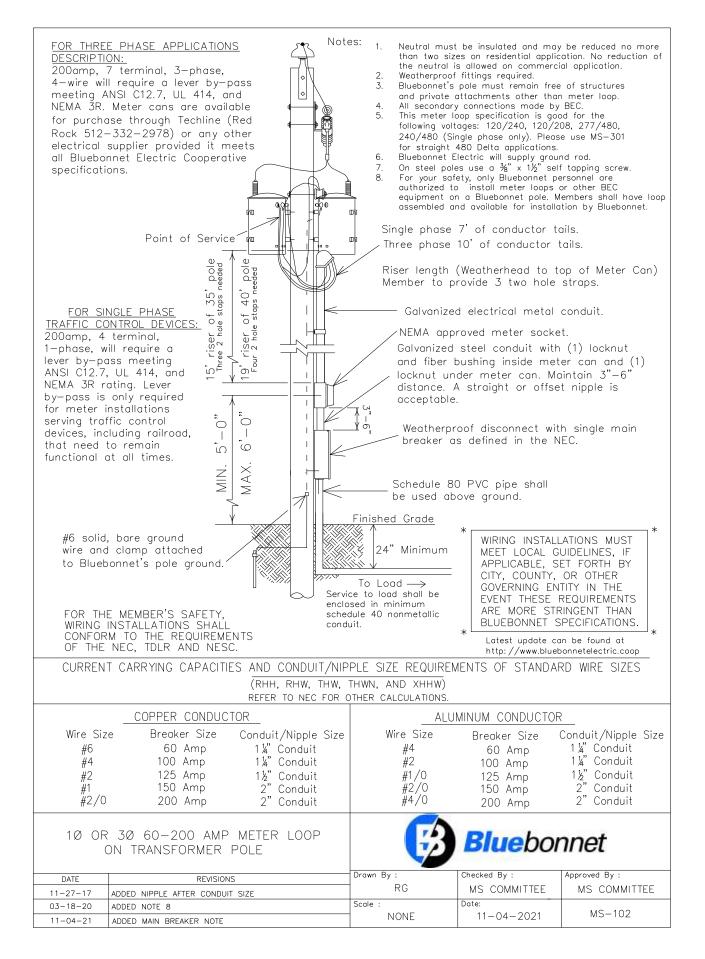
11-04-21 ADDED MAIN BREAKER NOTE

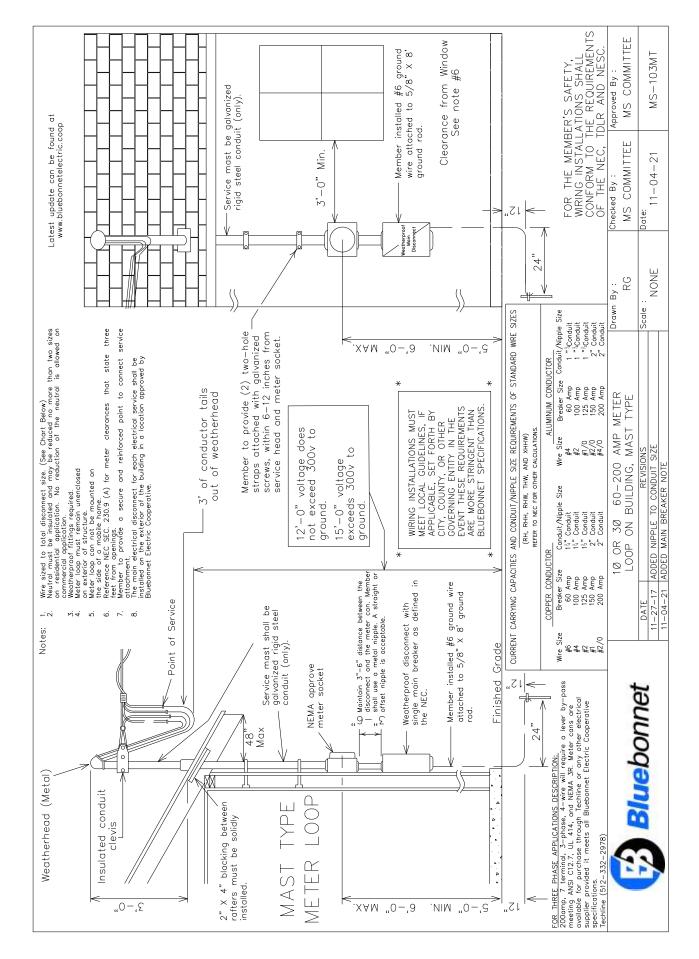


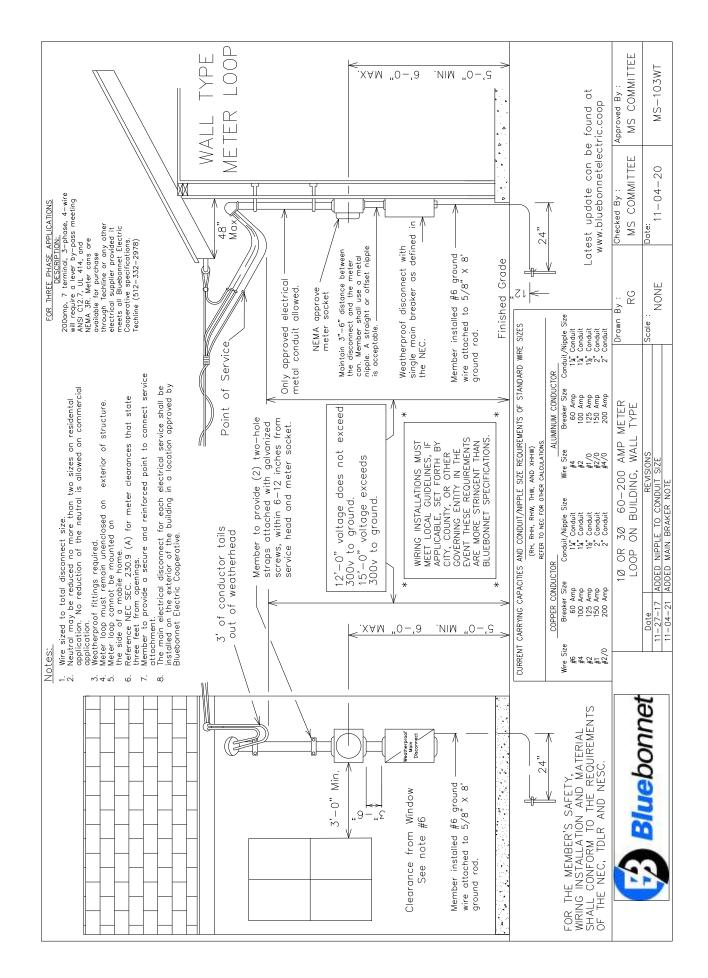
MS-10119

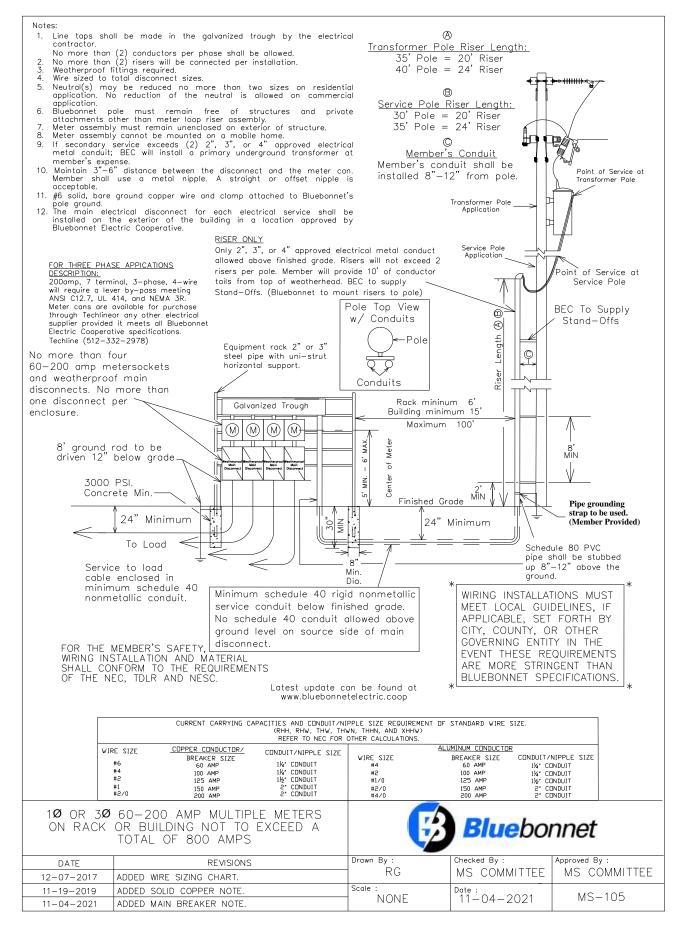
11-04-2021

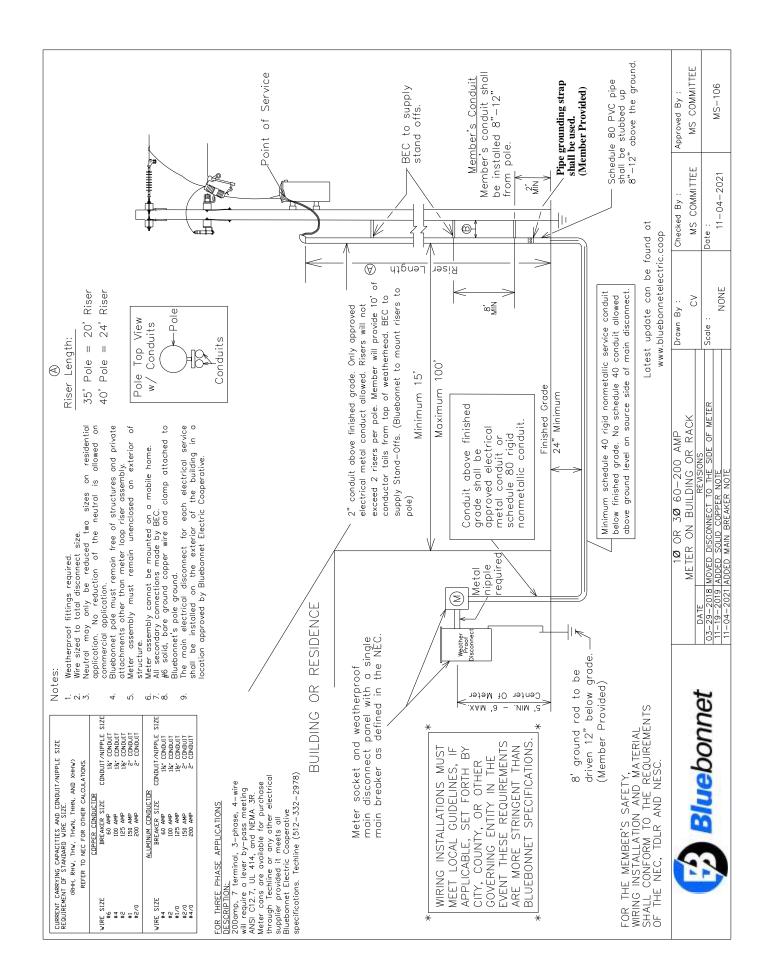
NONE

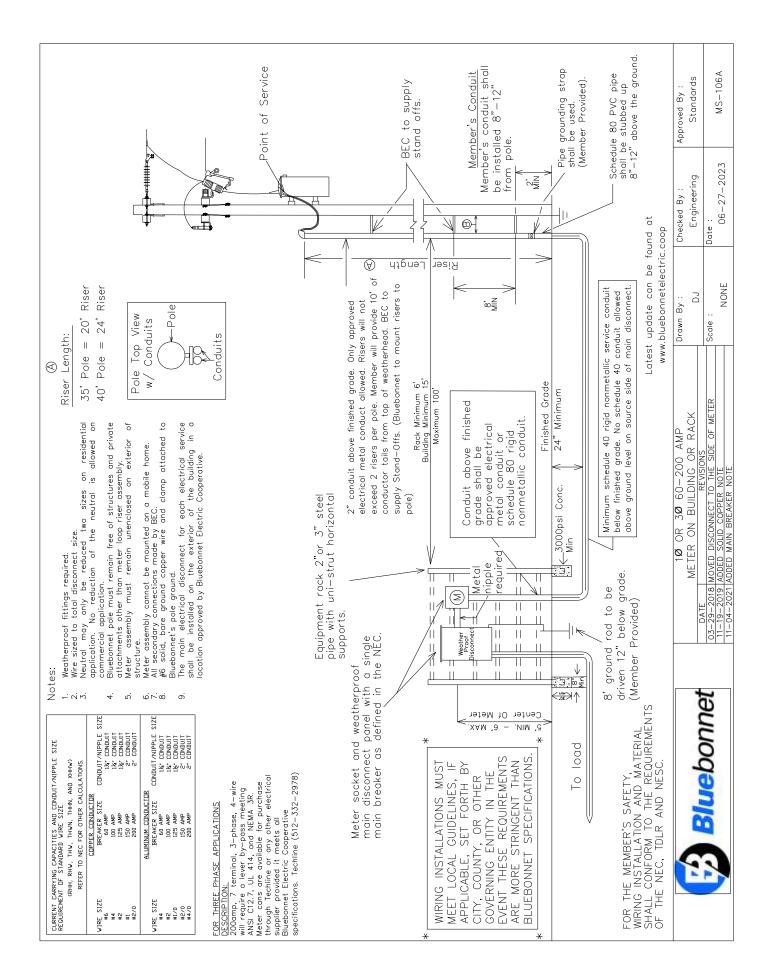


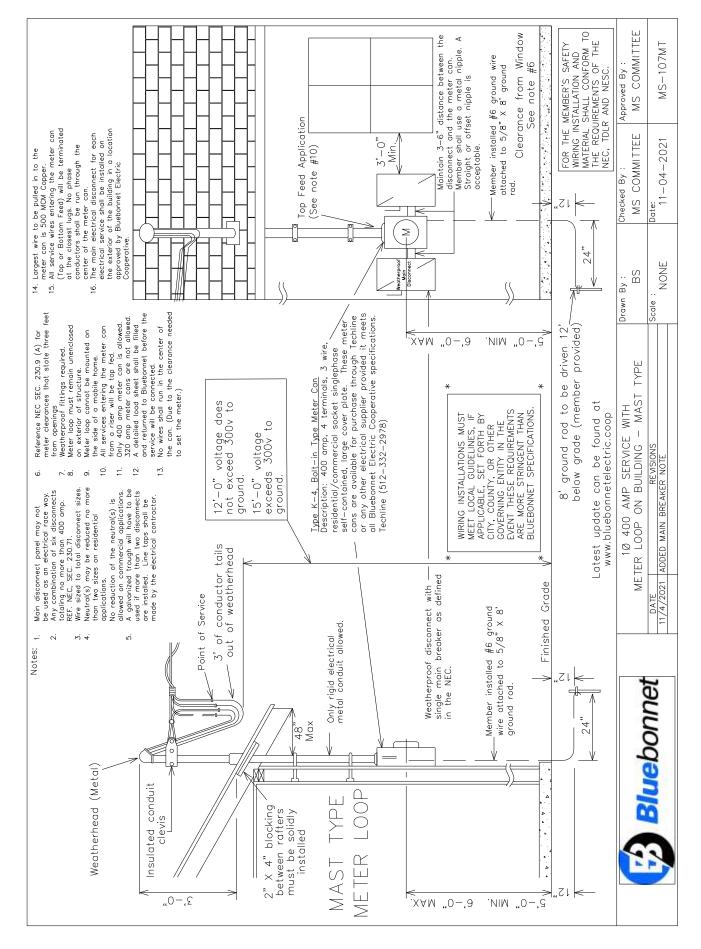


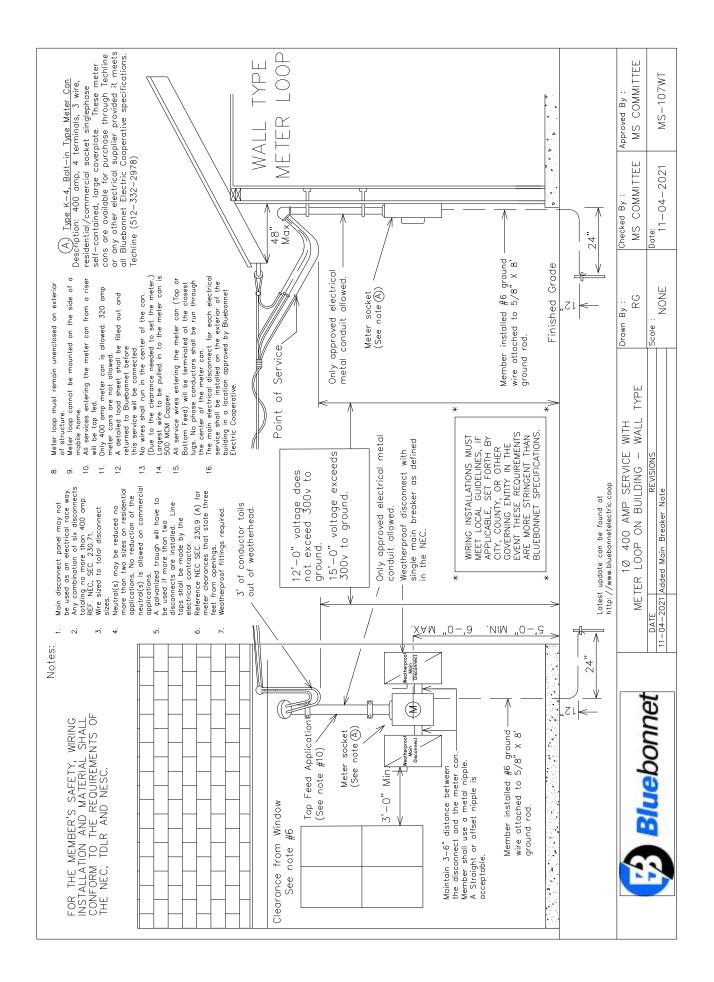


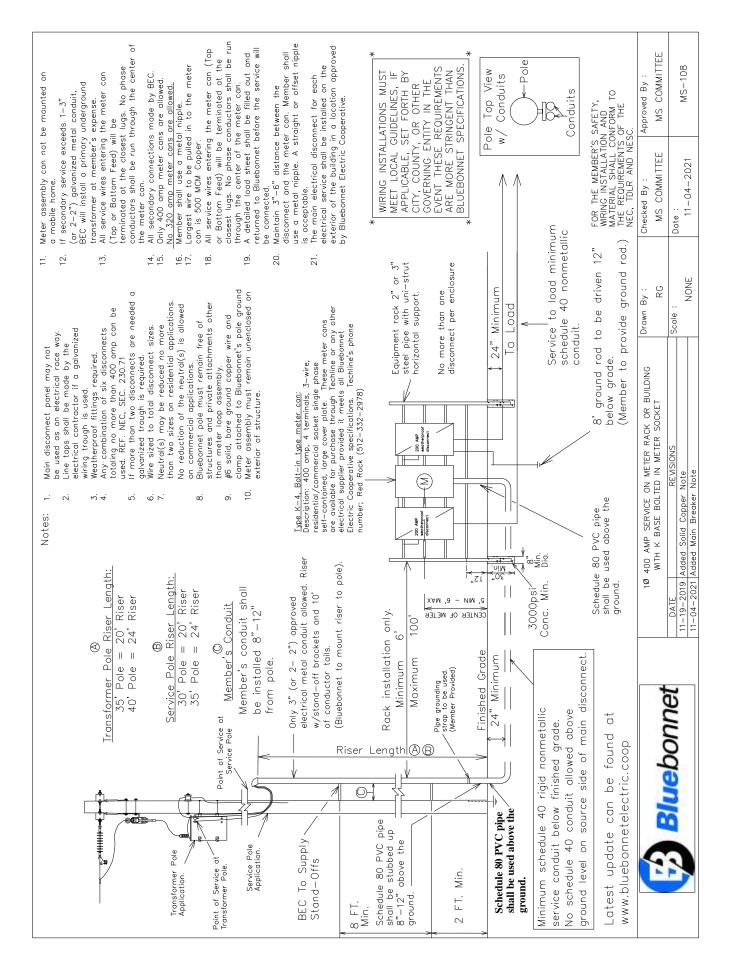


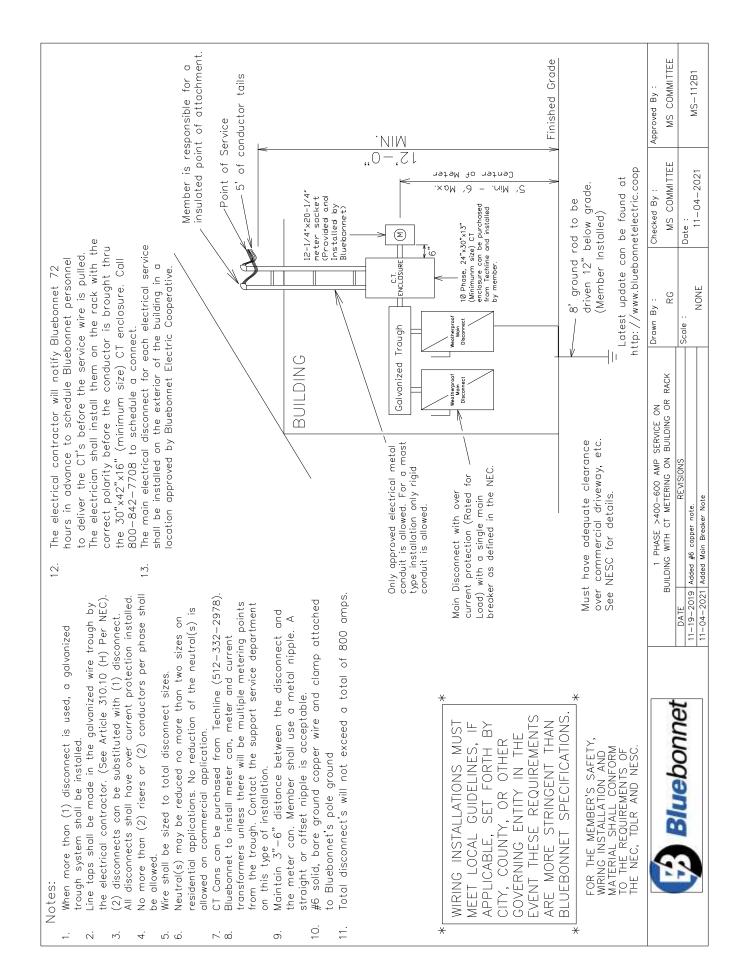


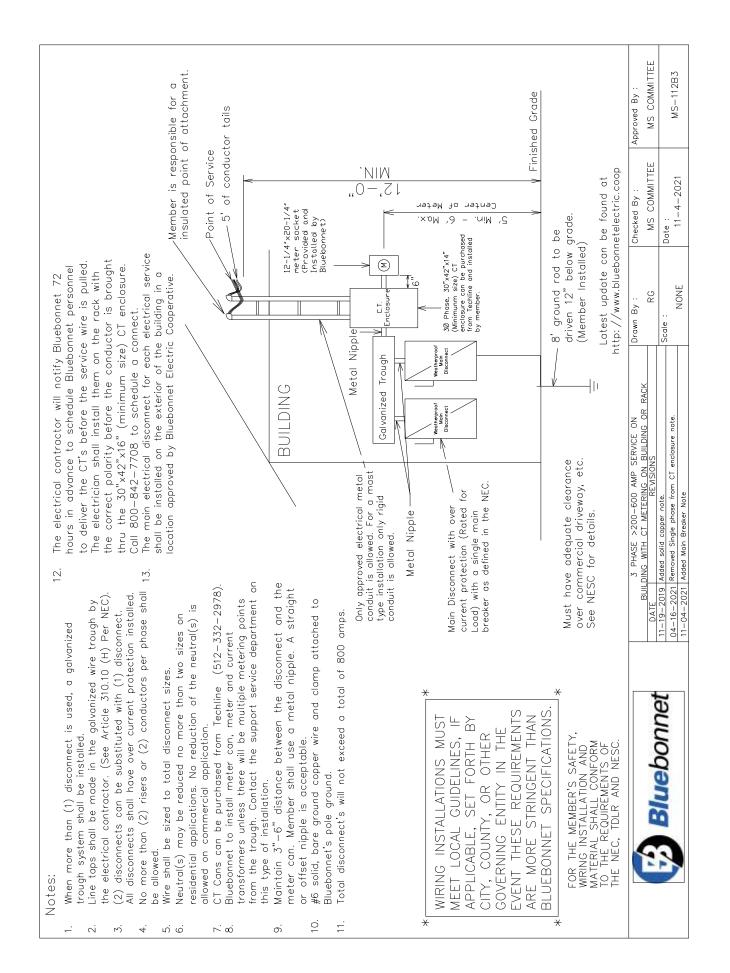


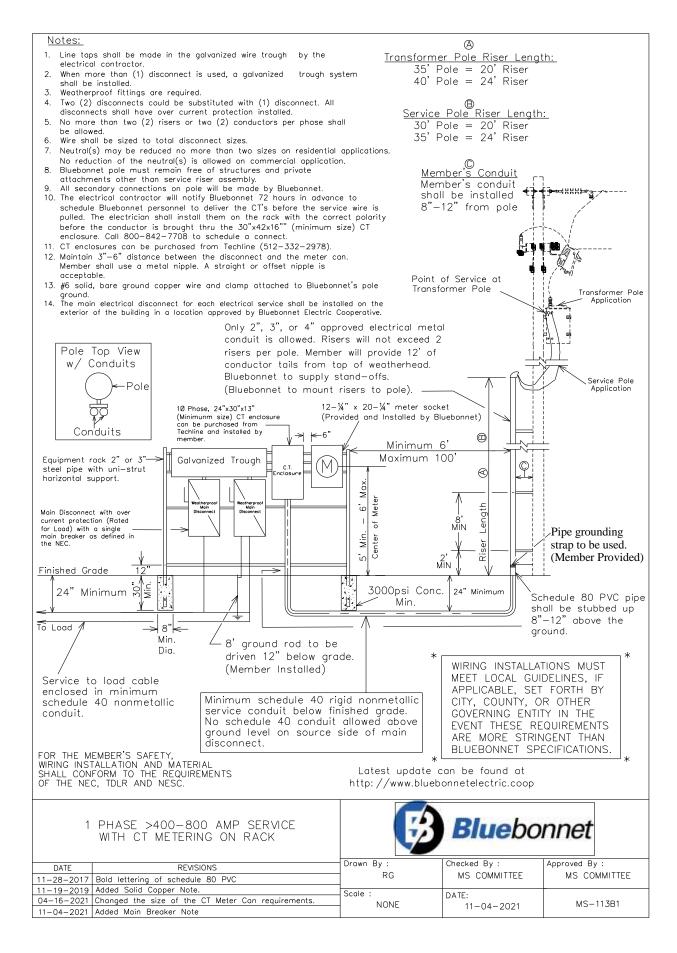


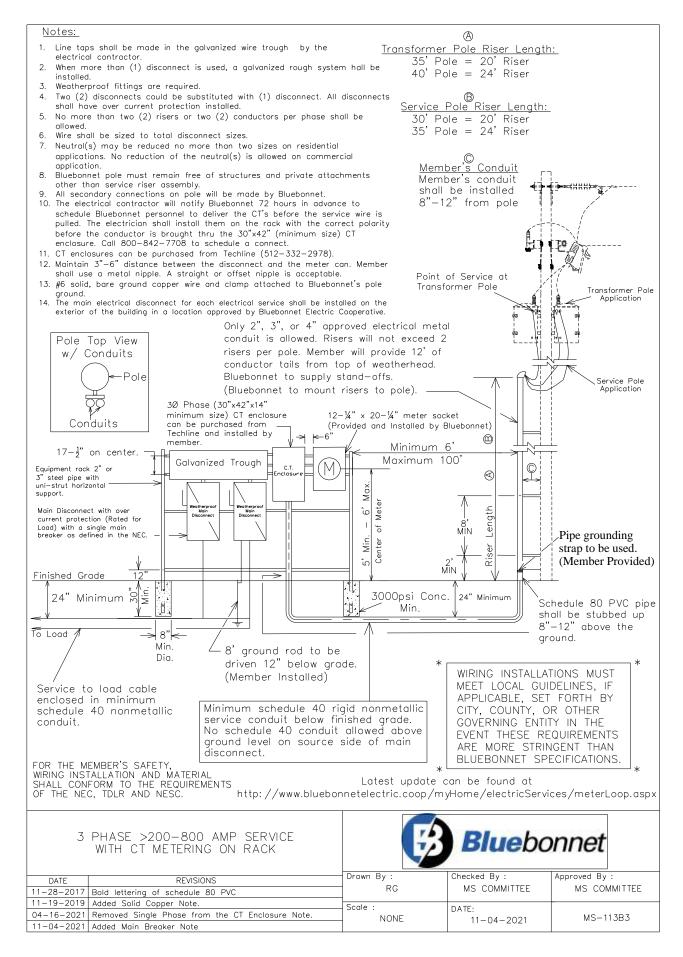


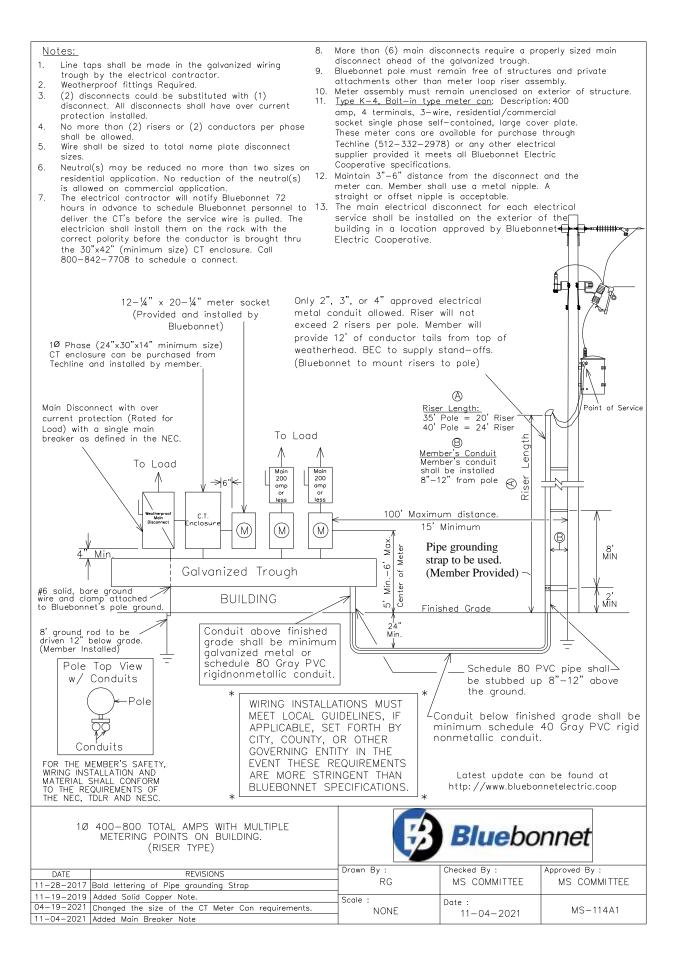


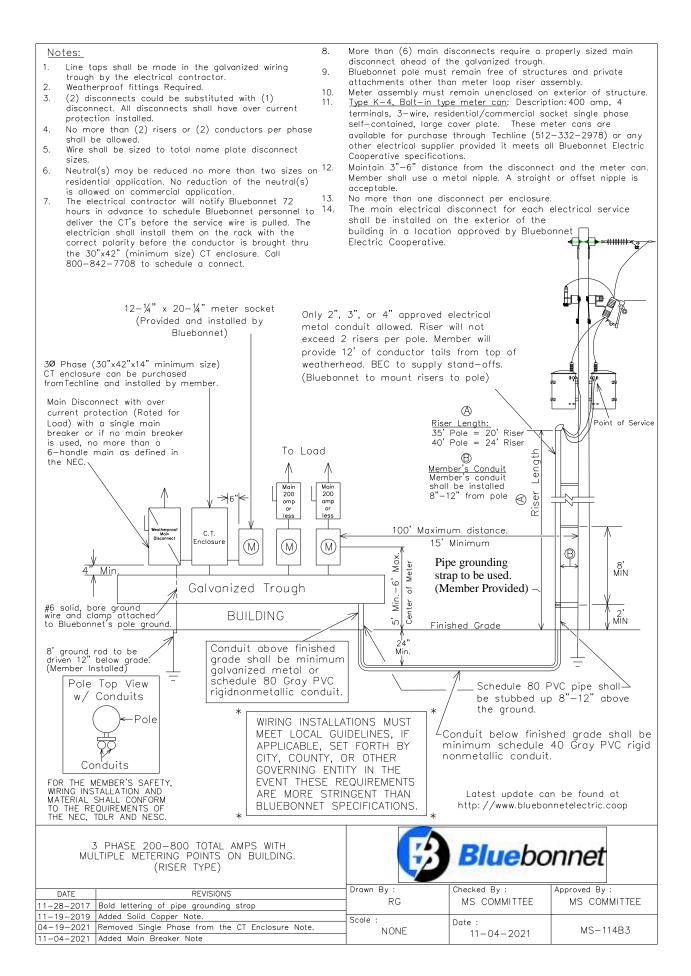


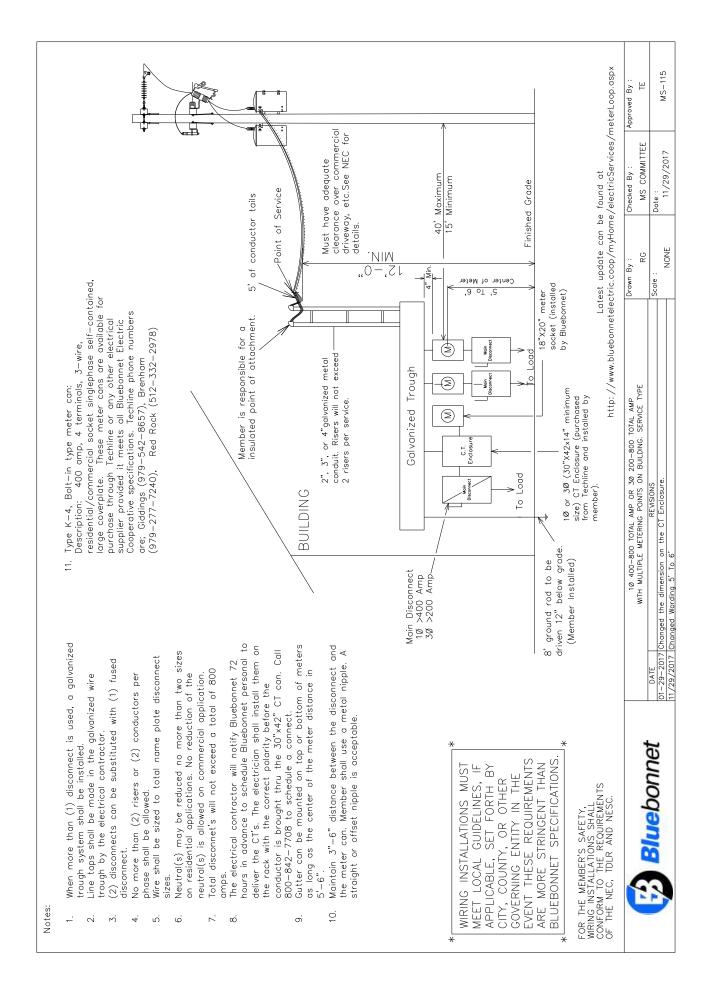


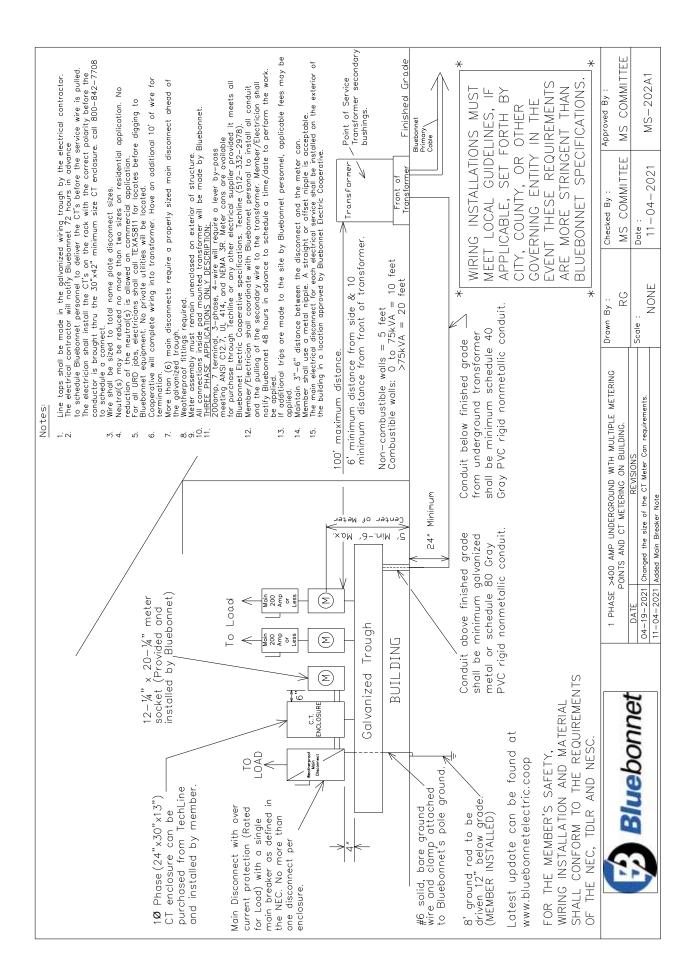


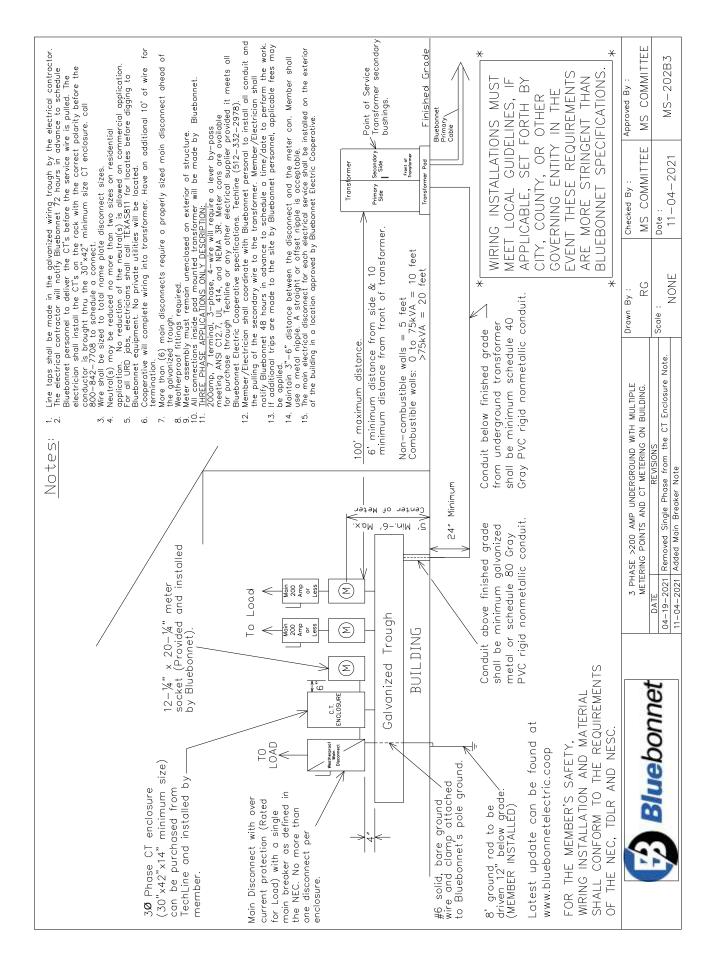




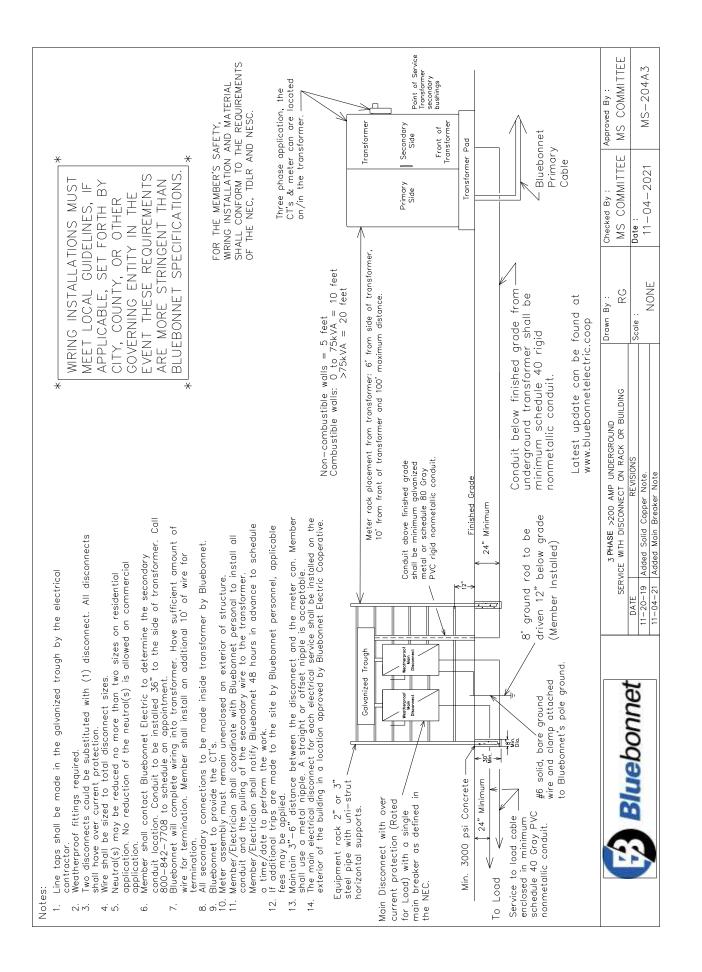


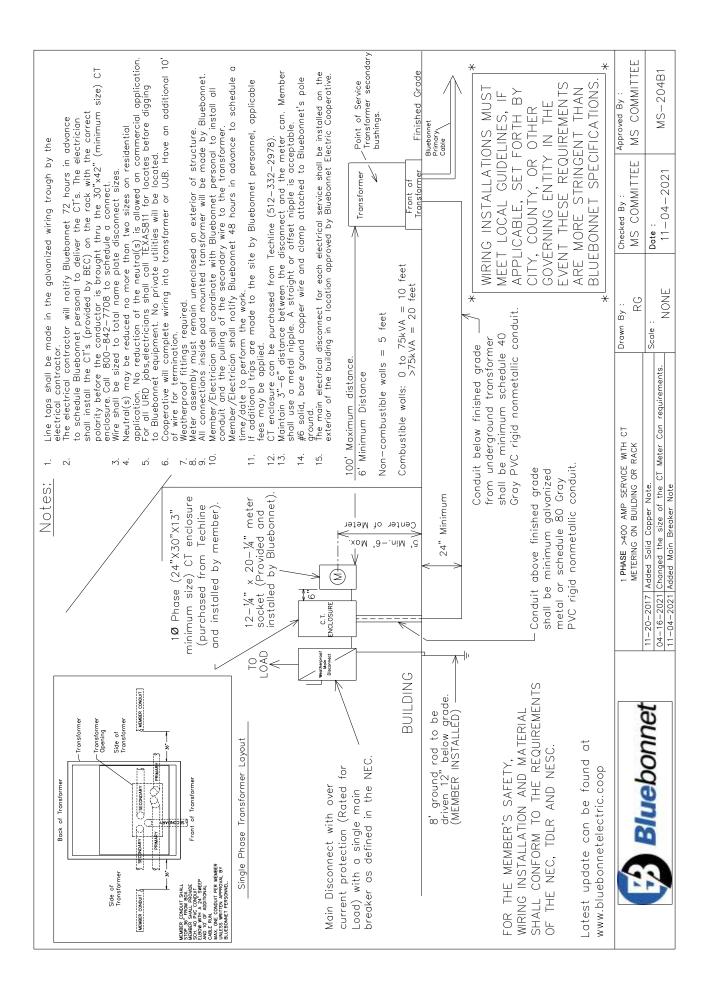




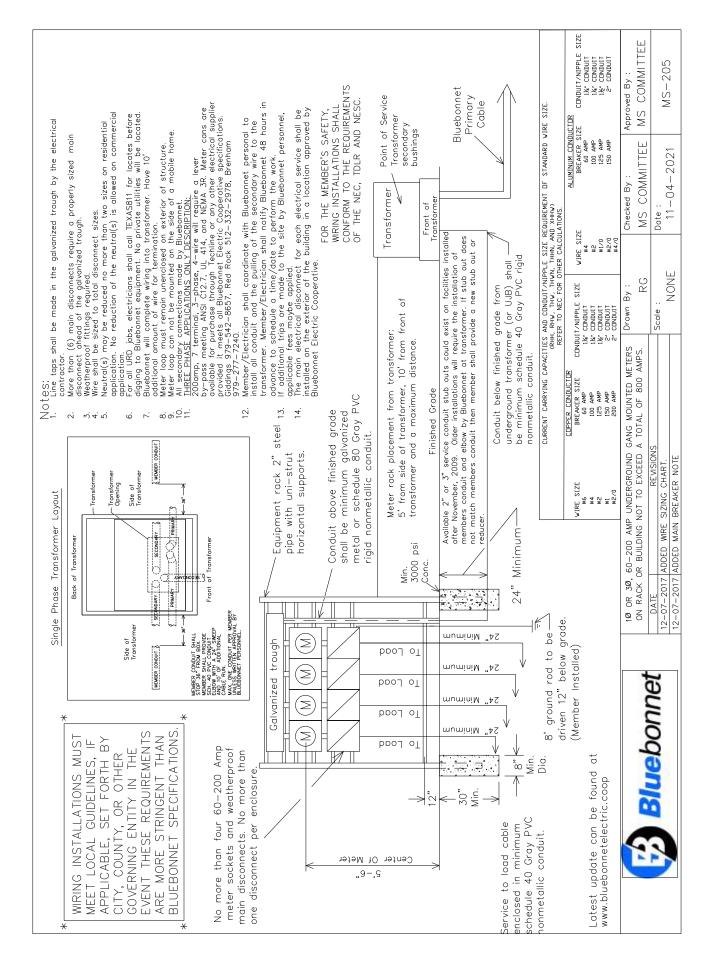


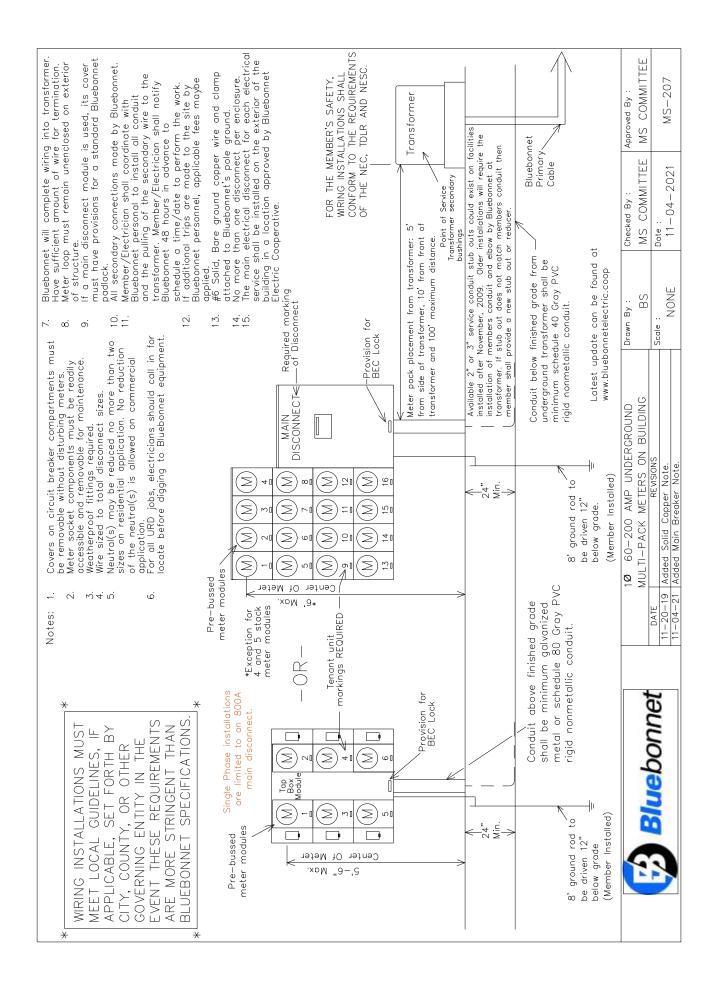
Notes: 1. Main disconnect panel may not be used as a electrical cee way. 2. Line tops shall be made by the electrical contractor if a galvanized wiring trough is used. 3. Weatherproof fittings required. 4. Any combination of six disconnects totaling no more than 400 amps can be used. REF. NEC, SEC 230.71 5. Recommended vire size is either parallel 2/0 THHN copper Recommended vire size is either parallel 2/0 THHN copper 6. Neutrals may be reduced no more than two sizes on residential applications. No reduction of the neutrals is 7. Member shall install an additional of 10° wire for termination 8. main breaker of 6-handle main as defined in the NEC. 9. Metering point must remain unenclosed on exterior of structure. 10. Metering cannot be mounted on the side of a mobile home.	e 2.20 1.17 1.1	All secondary connections in transformer are made by Bluebonnet. Only 400 Amps meter cans are allowed. No 320 Amp Meter Cans are allowed. All service wires entering the meter can (Top or Bottom Feed) will be terminated at the closest lugs. No phase conductors shall be run through the center of the meter can. Member must contact Bluebonnet to determine where the secondary conduit is to be run to the transformer. Conduit to be installed 36" to the side of transformer. Call 800–842–7708 to schedule an appointment. Member/Flectrician shall ondringte with Bluebonnet personal to install all wember/Flectrician shall notify Bluebonnet 48 hours in advance to schedule a time/date to perform the work. If additional trips are made to the site by Bluebonnet personnel, applicable fees maybe applied. Mointain 3"-6" distance between the disconnect and the meter can. Member fleating in straight or offset nipple is acceptable. Largest wire to be pulled in to the meter can is 500 MCM Cooper. A defined a shall be filled out and returned to Bluebonnet before the service will be connected.	made by Bluebonnet. 20 Amp MeterCans are allowed. or Bottom Feed) will be ductors shall be run through the e where the secondary conduit is natalled 36" to the side of natalled 36" to the side of an appointment. hours in advance to reponnet personal, applicable rect and the meter can. Member nipple is acceptable. returned to Bluebonnet before the to Bluebonnet Electric Cooper. Delevorent Conter Can det a Bluebonnet Electric Cooper.
* WIRING INSTALLATIONS MUST MEET LOCAL GUIDELINES, IF APPLICABLE, SET FORTH BY CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS. *	Bock of Transformer Side of Transformer Side of Transformer Side of Transformer Side of Transformer Side of Transformer Front of Transformer Front of Transformer Transformer Front of Transformer Front of T	Latest update can be found at www.bluebonnetelectric.coop Landis & Gyr. Type K-4. Description: 400 amp, 4 terminals, 3 wire. Landis & Gyr. Type K-4. Description: 400 amp, 4 terminals, 3 wire. residential/commercial socket single phase self-contained, large coverplate. The meter lags can accommodate up to 500 MCM. The meter cans are available for purchase through Techline or any other electrical supplier provided it meets all Bluebonnet Electric Cooperalit specifications. Techline phone numbers; Red Rock (512-332-2978) Metal nipple Weather proof Discor required.	
Point of Service Meter Transformer Scondary Transformer 5 fror bushings Front of transformer	Finished Grade	20. ИП. – 6. МОХ 20. 12. – 6. МОХ 20. 12. – 6. МОХ ССЕИТЕВ ОГ ИЕТЕВ	2000 Minute Struct 2 steel pipe with uni-struct struct 2000 Minute Struct 2000 Minute 2000
3" Conduit belo Bluebonnet primary cable 40 Gray PVC ri FOR THE MEMBER'S SAFETY, WIRING INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC.	 Conduit below finished grade from underground transformer to meter shall be minimum schedule Gray PVC rigid nonmetallic conduit. 3" Conduit above finished grade to meter be minimum galvanized metal or schedule Gray PVC rigid nonmetallic conduit. 	shall 800	لیا Service enclosec enclosec enclosec enclosec ande ade
Bluebonnet	10 AMP URD SERVICE ON RACK OR BUIL WITH K BASE BOLTED IN METER SOCKET DATE DATE REVISIONS 11-20-19 Added Solid Copper Note. 11-04-21 Added Main Breaker Note	DING Drown By : RG Scole : NONE	Checked By : MS COMMITTEE MS COMMITTEE Date : 11-04-2021 MS-203

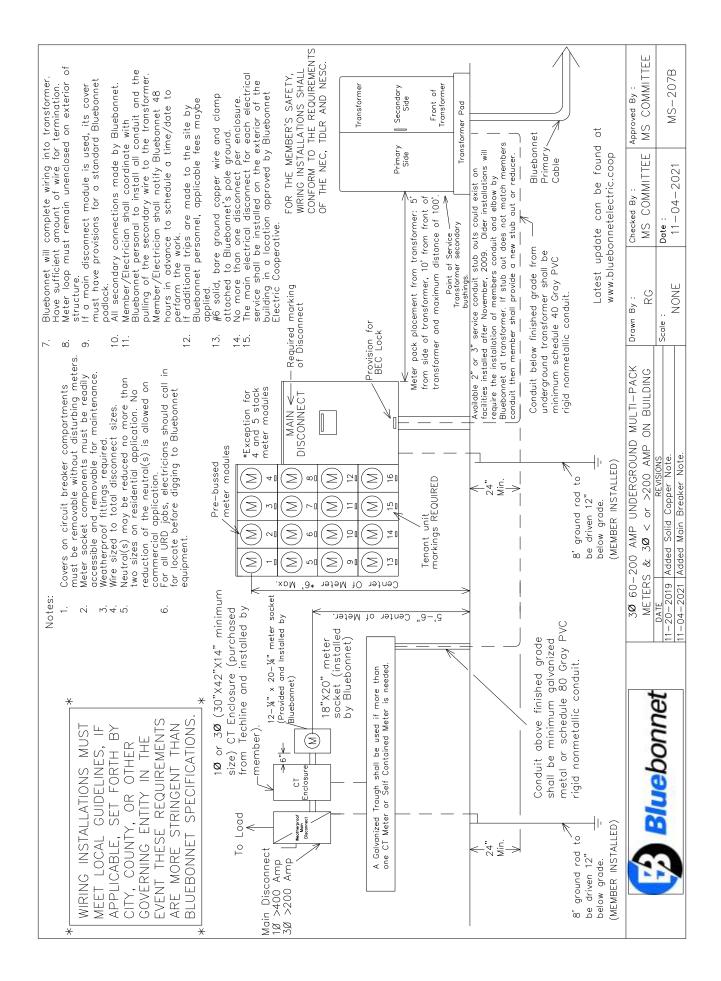


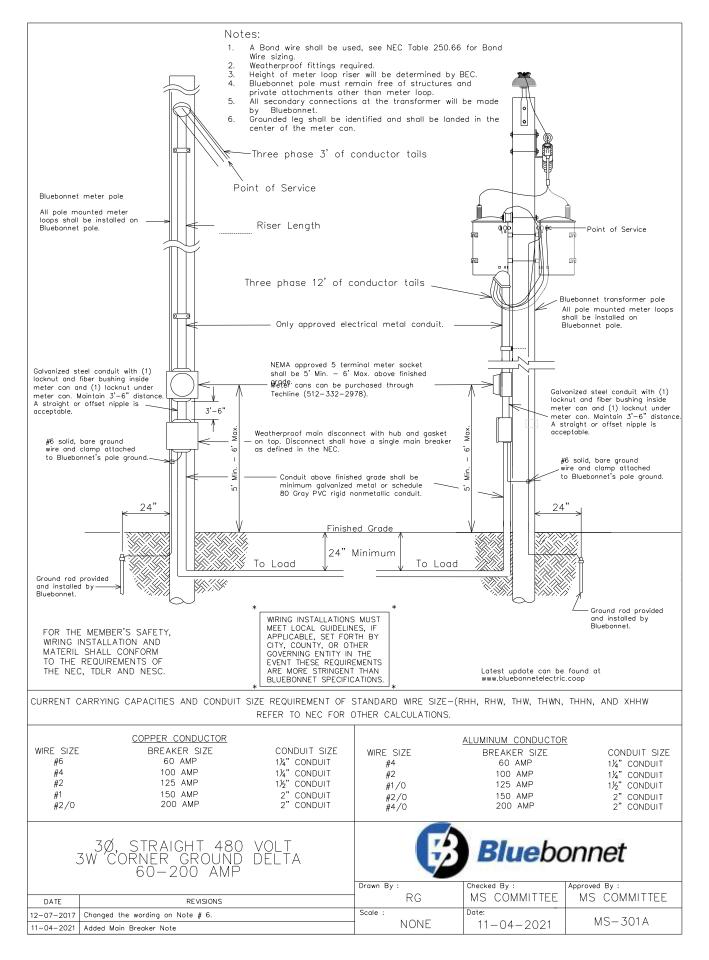


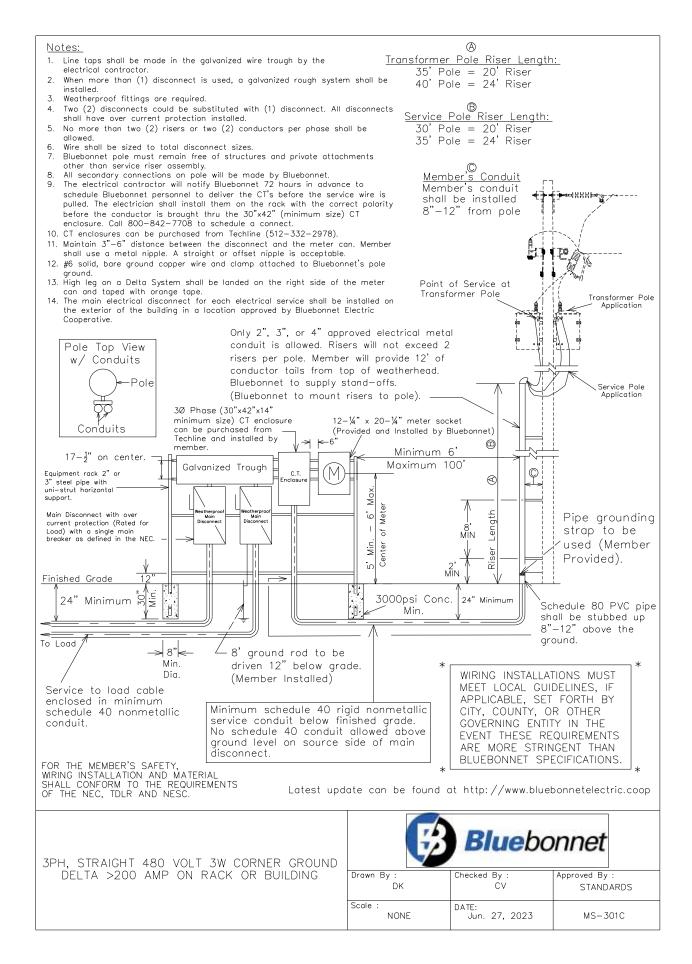
 Line tops shall be made in the galvanized wiring trough b electrical contractor. The electrical contractor will notify Bluebonnet 72 hours in to schedule Bluebonnet personal to deliver the CTs. The shall install the CTs (provided by BEC) on the rock with polarity before the conductor is brought thru the 30"x42" wire shall be sized to total name plate disconnect sizes. Wire shall be sized to total name plate disconnect sizes. Neutral(s) may be reduced no more than two sizes on resplication. No reduction of the neutral(s) is allowed on c poplication. No reduction shall contect with be neutral(s) is allowed on c of wire for termination. Wentenson shall be sized to total name plate disconnect sizes. Butto Bluebonnet equipment. No private utilities will be locate to Bluebonnet equipment. No private utilities will be more than two sizes on restorer of the neutral(s) is allowed on c of wree for termination. Meter assembly must remain unenclosed on exterior of state and wree for the pulling of the secondary wire to the transime date to perform the work. Member/Electrician shall notify Bluebonnet 48 hours in adminimed date to perform the work. Maintoin 37.5.6 distance between the disconnect and the issues on the restorer of the building in a location approved by Bluebonnet per test methods the building in a location approved by Bluebonnet per test more date to the building in a location approved by Bluebonnet per vertice of the building in a location approved by Bluebonnet per vertice of the building in a location approved by Bluebonnet per vertice of the building in a location approved by Bluebonnet per vertice of the building in a location approved by Bluebonnet per vertice of the building in a location approved by Bluebonnet per vertice of the building in a location approved by Bluebonnet per vertice of the building in a location approved by Bluebonnet per vertice of the building in a location approved by Bluebonne	6' Minimum Distance 5:4 Point of State 1:5:4 Transformer secondary bushings. Non-combustible walls = 5 feet Front of Transformer	Combustible walls: 0 to 75kVA = 10 feet Transformer Pod Finished Grade	Conduit below finished grade from underground transformer from underground transformer shall be minimum schedule 40 Gray PVC rigid nonmetallic conduit. Gray PVC rigid nonmetallic conduit. CITY, COUNTY, OR OTHER GOVERNING ENTITY IN THE EVENT THESE REQUIREMENTS ARE MORE STRINGENT THAN BLUEBONNET SPECIFICATIONS.	3 Phase >200 AMP SERVICE WITH CT Drawn By : Checked By : Approved By : MS COMMITTEE MS COMMITTEE MS COMMITTEE	11-20-2019 Added Solid Copper Note 04-19-2021 Removed Single Phase from the CT 11-04-2021 Added Moin Brack NONE NONE
	#6 solid, bare ground wire and clamp attached to Bluebonnet's pole ground.		 Conduit above finished grade shall be minimum galvanized metal or schedule 80 Gray PVC rigid nonmetallic conduit. Latest update can be found at www.bluebonnetelectric.coop 		11-20-2019 Added Solid Cop 04-19-2021 Removed Single 11-04-2021 Added Main Brec



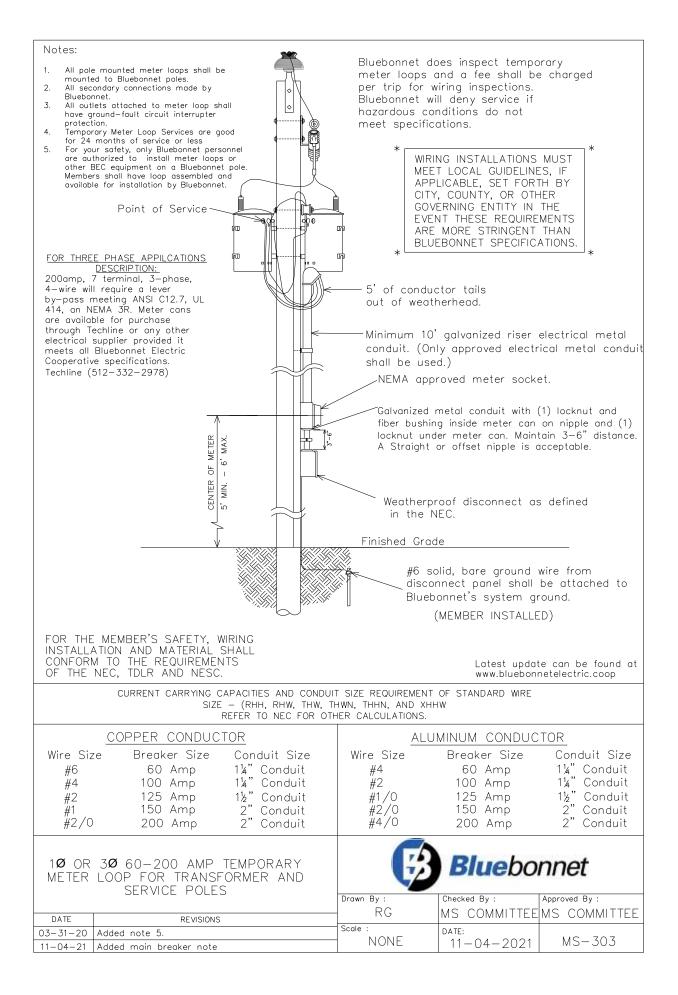








Notes: 1. All temporary wiring shall meet national electrical code standards. 2. All outlets attached to meter loop shall have ground-fault circuit interrupter protection. 3. For all URD jobs, electricians shall call TEXAS811 for locates before digging to Bluebonnet equipment. No private utilities will be located 4. Service wires shall be brought to the top side of the meter base.	 Bluebonnet does inspect loops and a fee shall b wiring inspection. Blueb service if hazardous con if connections do not m Bluebonnet will complet or UJB. Member shall - of wire for termination. All connections inside p and UJB's will be made 8. Temporary Meter Loop 9 The main electrical disc to 24 months of servic by Bluebonnet Electric by Bluebonnet Electric 	: temporary meter e charged per trip for bonnet will refuse nditions exist and/or neet specifications. * wring into transformer have sufficent amount ad mounted transformer by Bluebonnet. by Bluebonnet. or less. onnect for each e or less. onnect for each e installed on the in a location approved *	WIRING INSTAI MEET LOCAL APPLICABLE, CITY, COUNTY GOVERNING EI EVENT THESE ARE MORE ST BLUEBONNET	LLATIONS MUST GUIDELINES, IF SET FORTH BY , OR OTHER NTITY IN THE REQUIREMENTS FRINGENT THAN SPECIFICATIONS. *
#6 Bare Coper Ground Wire and Nipple Base Maximum Fraction the NEC us and the formula of the for	Weatherproof Weatherproof Hub Necessor Hub Second Red will be by Member. 24"	Minimum , source s connect p called in called in called in called in 22X4 Stuc		Transformer (or UJB)
FOR MEMBER SAFETY, WIRING INSTALLATION AND MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE NEC, TDLR AND NESC. Latest update can be found at www.bluebonnetelectric.coop	CURRENT CARRYING CAP CURRENT CARRYING CAP #6 #6 #2 #1 125 #1 150 #2/0 200	ACITIES AND CONDUIT/NI (RHH, RHW, THW, THW, REFER TO NEC FOR OI NDUCTOR SIZE CONDUIT SIZE AMP 11%" CONDUIT AMP 11%" CONDUIT AMP 2° CONDUIT AMP 2° CONDUIT		STANDARD WRE SIZE SNDUCTOR IZE CONDUIT SIZE IZE CONDUIT WP 11% CONDUIT WP 2° CONDUIT MP 2° CONDUIT MP 2° CONDUIT
Bluebonnet	TEMPORARY METER LOOP FOR UNDERGROUND DATE 03-29-2018 ADDED ADDITIONAL METER SETUP. 11-04-2021 ADDED MAIN BREAKER NOTE	ND SERVICE Drawn By : RG Scale : NONE	Checked By : MS COMMITTEE MS COMMITTEE DATE: 11-04-2021	Approved By : MS COMMITTEE MS-302



Material Standards:



Underground warning tape must be 6" width, RED in color with BLACK lettering, and read "Caution Buried Electric Underground". *Normally, this material is only sold in 1000' rolls.*



MEMBER RESPONSIBILITY

BLUEBONNET RESPONSIBILITY

Deliver essential project documents to Bluebonnet Electric Coop. - Site plan files (CAD Format), load information, information request form(s), project schedule.	BEFORE THE CLOCK STARTS	Facilitate correspondence with member/developer to discuss needs and review available information. Provide Bluebonnet Developer's Package (Commercial/ Residential); including standard Bluebonnet Easement. Collect information from Member/Developer. Verify a complete member package has been received, including all required documentation.
Host a site visit and/or Pre-design Meeting/Call with Bluebonnet Representative(s). Provide up to date and accurate Project Schedule for all stages, including desired energization date.	WEEK #1	Attend site visit or Pre-design meeting, evaluate site layout, utility coordination, member construction coordination, jobsite construction access, etc.
Bluebonnet Electric cannot begin design of project until all required documentation is received.	WEEKS #2-#5	Design electric service layout; coordinate with the electric system (circuit capacity, fuses). Size equipment, determine rate class for Community Representative to communicate to Member.
	WEEKS #6-#7	Prepare and submit any necessary permits. Schedule and complete field staking of project. Finalize and secure all easements.
	WEEK #8	Create cost estimate and deposit and send cost letter and Site Ready Letter to developer.
Expedite payment to Bluebonnet Electric for project. Provide any required third party easements and outstanding information.	WEEK #9	
**Bluebonnet Electric will not release project for scheduling (apartments and subdivisions) until addressing information is	WEEKS #10-#11	Process project payment.
received.**	WEEK #12	Prepare for and release project to construction. Verify material availability and receipt of developer's Site Ready Letter.
Bluebonnet Electric cannot begin construction of project until Site Ready documentation is received. Construction crews will leave the site if suitable construction conditions are unsatisfactory.	WEEKS	Upon release, Construction Lead (Contract Coordinator or Bluebonnet Construction) will contact member within two business days to provide anticipated construction start date, duration, planned completion, etc.
Member completes preparation for final electric service delivery.	#13-#28	Complete inspections and accept installations. Verify site is prepared and ready for construction. Construct Bluebonnet Electric Facilities.
Member requests initiation of final electric service.	WEEKS #29-#30	Inspect final installation. Energize project and initiate electric service.

A. If a Member step is late, the project clock **<u>STOPS</u>**. Members/Developers are highly encouraged to stay on top of payments, required easements, and all crucial deliverables and documentation.

B. Elapsed times are not a guarantee. More than thirty weeks may be needed for larger scope projects or projects that require significant upgrades to Bluebonnet Electric's system infrastructure.

C. Member/Developer is required to provide Bluebonnet Electric with any and all required easements, including third party, prior to commencing construction.

D. Bluebonnet Engineering staff are responsible for all steps from project inception through Week #12. Weeks #13 - #30 are managed

by Bluebonnet Construction Staff and are denoted in **BLUE**.

E. Permitting schedule is contingent on regulatory agency approval (response times vary).

F. Member/Developer is required to notify construction once site is ready by returning a signed Site Ready Letter. Projects will not be released for scheduling until this document has been returned.

During the **planning, engineering, and design phase** of your project your main point of contact will be one of Bluebonnet's Project Coordinators. If the Project Coordinator for your project is not available, one of the other team members will be glad to assist you.

Shawn Ely	Rodney Gerik	Clemente Verastegui
shawn.ely@bluebonnet.coop	rodney.gerik@bluebonnet.coop	clemente.verastegui@bluebonnet.coop
Office: (979) 542-8518	Office: (979) 542-8527	Office: (979) 542-8542
Cell: (979) 540-7361	Cell: (979) 540-8814	Cell: (512) 578-6393
Scott Iselt	Shane Mathison	Thomas Ellis (Manager)
scott.iselt@bluebonnet.coop	shane.mathison@bluebonnet.coop	thomas.ellis@bluebonnet.coop
Office: (979) 542-8522	Office: (979) 542-8540	Office: (979) 542-8545
Cell: (979) 540-0195	Cell: (512) 577-6817	Cell: (979) 540-6146
Dalton Voight	Jorge Varillas	Wyatt Rosenauer
dalton.voight@bluebonnet.coop	jorge.varillas@bluebonnet.coop	wyatt.rosenauer@bluebonnet.coop
Cell: (512) 629-3771	Office: (512) 764-2838	Office: (979) 542-8665

Cell: (512) 629-5924

During the **construction**, **inspection**, **and metering phase** of your project your main point of contact will be Bluebonnet's Contractor Coordinator OR Assistant Superintendent. Bluebonnet's personnel cover specific areas of the service territory; areas are listed with their contact information.

Cell: (512) 376-8291

Joey Tobola (Contractors) joey.tobola@bluebonnet.coop Cell: (979) 540-7162	Randall Bownds (Giddings Area) randall.bownds@bluebonnet.coop Office: (979) 542-8516 Cell: (979) 540-6418	Chad Lewis (Brenham Area) chad.lewis@bluebonnet.coop Office: (979) 277-8558 Cell: (979) 277-4041
Aaron Seeliger (Red Rock Area) aaron.seeliger@bluebonnet.coop Office: (512) 764-2788 Cell: (512) 227-2281	Kenneth Roush (Underground – All Areas) kenneth.roush@bluebonnet.coop Cell: (512) 468-5088	Tim Mittasch (Underground- All Areas) tim.mittasch@bluebonnet.coop Cell: (979) 540-7159
Daniel Fritsche (Bastrop Area) daniel.fritsche@bluebonnet.coop Office: (979) 542-8514 Cell: (979) 542-8546	Carl Miller (Underground Inspector) carl.miller@bluebonnet.coop Cell: (979) 540-6495	Joe Hernandez (Underground Inspector) jose.hernandez@bluebonnet.coop Cell: (720) 670-7299
Jose Villarreal (Underground Inspe jose.villarreal@bluebonnet.coop Cell: (512) 988-1885	ctor)	Martin Dorantes (Underground Inspector) martin.dorantes@bluebonnet.coop Cell: (512) 748-4453