

Welcome to Bluebonnet Electric Cooperative

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

Bluebonnet is one of the largest electric cooperatives in Texas, with a 3,800 square mile service territory, which includes all or part of 14 counties, serving more than 120,000 meters. Five Member Service Centers are located throughout Bluebonnet's service territory to assist members with issues ranging from bill payment to service installation. A distribution cooperative, Bluebonnet purchases most of its power wholesale from LCRA. Bluebonnet operates and maintains over 12,000 miles of distribution lines. The organization owns 26 substations and purchases power at 22 additional substations owned by 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 Bluebonnet's distribution system.

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.

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

Thank you,

Bluebonnet Project Coordination Staff

Development Information Request Form

SUBDIVISION or PROJECT NAME:		
LOCATION OF PROJECT:		
DEVELOPER'S NAME:		
REPRESENTED BY:	PHONE:	
MAILING ADDRESS:		
ENGINEERING FIRM:		
REPRESENTED BY:	PHONE:	
	E-mail:	
TYPE OF PROJECT: SECTION I (Check all that apply) (Insert Section #) I Image: Residential control of the sector of the sect	NUMBER OF LOTS (In this section)	TOTAL LOTS (In all sections)
Taxing jurisdiction(s) and entities in which development falls (ie (911) Address of Development	the first 12 months.	
OTHER UTILITY PROVIDERS (Company Name) UNATER GAS (YES or NO) CABLE/ INTERNET		
WIDTH OF PUE		
ASSIGNMENT OF ELECTRICAL UTITLITIES WITHIN THE 3' ASSIGNMENT INTO THE PUE 7' ASSIGNMENT INTO THE PUE OTHER	E PUE	
LOAD EXPECTATIONS: (Check All That Apply) LIFT STATION/WASTE WATER PLANT WATER WELL HOME SIZES FROM TO AMENITY CENTER, PARKS, CLUB HOUSE COMMERCIAL SITES WITHIN DEVELOPMENT STREETLIGHTING – Responsible party for monthly lip		

By signing this form, you are acknowledging receipt and understanding of this packet and you agree to abide and comply with all requirements and policies within.

Developer / Agent / Owner

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, grading plans, and streetlight locations (if required) as well as any other utilities planned for said development. BBEC will not accept removable media devices for file submissions. For files that are too large to send via email, a BBEC FTP Site will be provided.

- □ A design/re-design fee could be required either prior to or following the design process as a result of any changes to design out of original scope of project. 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 location per Bluebonnet Crossing Plans and if applicable, all electrical conduits in designated locations per Bluebonnet Construction Plans (see Bluebonnet Specifications in this packet). **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 7).
- □ Property pins must be set and clearly visible at all lot corners, at developer's expense, prior to Bluebonnet commencing construction.
- Developer is responsible for submitting contribution-in-aid of construction to cover Bluebonnet's construction costs prior to Bluebonnet commencing construction.
 Bluebonnet's construction 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 to be quoted should developer choose this option. See attached Bluebonnet Specifications.
- □ Developer is responsible for ensuring conduit contractor and/or subcontractor adherence to all Bluebonnet Construction Specifications at all times.
- Developer 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 could be required either prior to or following the design process should the project change dramatically from its original scope. 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 scopes 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 Bluebonnet Member Welcome Kit or on the "Residential Development" link on our website located at <u>bluebonnet.coop</u>.
- 4. If the developer or prospective developer does not notify Bluebonnet within a 180 day period of initial design with the intent to proceed, 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.

Street Lighting

- 1. Bluebonnet agrees to install street lighting at locations within Site designated by the developer as needed to comply with City or County ordinances and regulations.
- 2. Bluebonnet does not offer any custom lighting solutions at this time. Bluebonnet will install our standard streetlight (see Bluebonnet Specifications in this packet) unless the developer wishes to install his own custom lighting. In this case, Bluebonnet will determine and provide a metering point(s) and the developer will be able to power his custom lighting facilities from this point(s). Developer will be responsible for all installation, operation, and maintenance of custom lighting facilities.
- 3. Bluebonnet will own, operate, maintain and repair the standard lighting facilities. The monthly charge for street lighting service will be according to the applicable rate schedule for lighting service in the Bluebonnet Electric Cooperative Tariff. Payment of the monthly charge for street lighting service will be the responsibility of the developer or an entity designated by the developer.

Easements / Right of Way

- 1. Bluebonnet shall be granted, at no cost and in writing on recorded plat, all rights-of-way 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. Bluebonnet does not allow any member equipment or material to be attached to its property, except where said equipment and/or materials are required to provide electrical service and said equipment and/or material has been authorized by Bluebonnet.
- 3. Developers and their respective Homebuilders must give Bluebonnet the rights, privileges and easements necessary to construct, operate, repair, replace and perpetually maintain electric facilities located on the member's owned or leased property, and in or on all streets, roads or highways abutting their property. All service lines providing members with electricity and all switches, meters and other appliances and equipment constructed or installed on the property belong solely to Bluebonnet, and Bluebonnet can access the property to repair or service them and, upon discontinuance of service, remove them.
- 4. Bluebonnet shall, at any time deemed necessary, access any equipment owned and/or operated by Bluebonnet. Any obstructions in a platted public utility easement or exclusive Bluebonnet easement such as landscaping, trees, fences, etc. will be removed if discovered by necessity or inspection. Developers and their respective Homebuilders will adhere to equipment clearance requirements noted in attached specifications AND on equipment labels. If the existing items mentioned above are removed, damaged, etc. by Bluebonnet, Bluebonnet expresses no guarantee, written or implied, that these items will be repaired or replaced. Requests for replacement or repair of landscaping, grass, trees, soil, etc. will be addressed and ruled on by Bluebonnet on a case by case basis. Bluebonnet will make every attempt to disturb existing items as little as possible granted their locations do not violate NESC, NEC, or Bluebonnet clearance requirements.

Front Lot Facilities / Back Lot Facilities

All overhead or underground distribution lines in a subdivision will be built on the front lot lines along public streets. Lines can be constructed along rear lot lines if the following conditions exist.

- 1. There is an accessible roadway from a public road (dedicated to the public or Bluebonnet) along the route of the proposed distribution line. The dedication will include language that prohibits obstructions being placed in the roadway that would prevent ready access, including but not limited to, fences, storage buildings, etc. and are required to be recorded in the deed restrictions for the applicable area(s).
- 2. The accessible, dedicated roadway will be an all-weather road, thirty (30) feet in width and constructed of asphalt, concrete, or crushed rock.
- 3. An all-weather road is defined with adequate culverts, bridges, and base material to support vehicles weighing up to 50,000 pounds during all weather conditions.

Inspection Guidelines and Procedures

- 1. Developer to provide all pertinent conduit contractor information to Bluebonnet Project Coordinator prior to conduit installation. Bluebonnet Project Coordinator will provide all pertinent Bluebonnet Inspector information to developer.
- 2. Developer will schedule and conduct a pre-construction meeting between Bluebonnet Inspector and contractor, who will install conduit at a time mutually agreeable to all parties involved.
- 3. Contractor foreman will review Bluebonnet construction specifications and acknowledge review and receipt prior to trenching and conduit installation.
- 4. Bluebonnet will respond within 48 hours of contractor notification prior to intended trenching times so inspection dates and times can be coordinated.
- 5. Trenches will remain open until inspected and approved by Bluebonnet inspector. Upon inspection, contractor will be advised as to what may or may not be backfilled.
- 6. 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.
- 7. Bluebonnet Inspector will inspect all road crossings as they are being installed by Road Contractor.
- 8. Equipment pad installation and conduit stubs must meet clearance requirements on all sides as outlined in Bluebonnet Specifications.
- 9. Developer must ensure that his conduit contractor cooperates with Bluebonnet's Inspector and corrects any problems noted. Otherwise, the Bluebonnet certification of the conduit system will be withheld and Bluebonnet's installation of electrical facilities cannot commence. Developers who fail to facilitate prompt resolution to conduit installation problems noted by Bluebonnet's Inspector will not be allowed to install conduit for Bluebonnet on existing or future projects.
- 10. 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.)

BLUEBONNET INSPECTORS

Carl Miller – 979-540-6495, <u>carl.miller@bluebonnet.coop</u> Jose Hernandez – 720-670-7299 <u>jose.hernandez@bluebonnet.coop</u> Tim Mittasch – 979-540-7159 <u>tim.mittasch@bluebonnet.coop</u> Kenneth Roush – 512-468-5088 <u>kenneth.roush@bluebonnet.coop</u> Jose Villarreal – 512-988-1885 <u>jose.villarreal@bluebonnet.coop</u> Martin Dorantes – 512-748-4453 <u>martin.dorantes@bluebonnet.coop</u>



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

Bluebonnet Specifications

Ditch and Conduit Placement Road Crossing Pad Mount Switchgear Easement Requirements Dimensions and Wiring Single-Phase Transformer Dimensions and Wiring Single-Phase Sectionalizer Three-Phase Transformer Pad 45-750 kVA Three-Phase Transformer Pad 1000-2500 kVA Dimensions for Three-Phase Sectionalizer 600A Standard Residential Streetlight Right-of-Way Clearing Guide Switchgear Dimensions and Installation Meter Loop Specifications (Multiple)

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.

Developments with lots greater than 1.5 acre are required to be designed with sectionalizers at the front lot lines within the PUE or BBEC Easement.

To prioritize safety for first responders and Bluebonnet Electric Cooperative, Inc.'s (BBEC) service men, the main electrical disconnect for each electrical service shall be installed in a readily accessible outdoor location no more than 100 feet from the transformation site. BBEC's Engineering Department must approve the electrical disconnect location before a design estimate will be provided.

Fire Pumps

Electric service to fire pumps shall be served through a CT-metered service.

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.*









1PH PADMOUNT TRANSFORMER DIMENSIONS AND WIRING

TOP VIEW

WIRING DIAGRAM







Pluchappot	Drawn:	Approved:	Date:		B-5	
Blue bonnet	SF	Coordinators	Feb. 11, 2022	UNDERGROUND DISTRIBUTION	D-3	



- 5. WOOD FLOAT LEVEL FINISH LEAVING NO DEPRESSIONS.
- 6. 3/4" CHAMFER ALL EDGES.
- 7. PRIMARY AND SECONDARY CONDUIT SHALL BE INSTALLED AND SEALED BEFORE POURING PAD.
- 8. MAXIMUM OF 8 CONDUITS, 4" SCHEDULE 40 PVC PIPES ARE ALLOWED IN THE SECONDARY COMPARTMENT.
- 9. STUB THE SECONDARY PIPES AS CLOSE TO THE EDGE SECONDARY CUTOUT AS POSSIBLE. (SEE DRAWING)
- 10. MAXIMUM OF 6 CONDUITS, 3" SCHEDULE 40 PVC PIPES ARE ALLOWED IN THE PRIMARY COMPARTMENT.

Blue bonnet	Drawn:	Approved:	Date:	UNDERGROUND DISTRIBUTION	B-6
Diuedonniel	SF	Coordinators	Feb. 11, 2022		D-0





JUNE 24, 2025



SECONDARY JUNCTION BOX CONSTRUCTION STANDARD



NOTES:

1. A MAXIMUM OF 1 INPUT AND 3 TRIPLEX OUTPUTS AND CAN BE CONNECTED IN JUNCTION BOX. MAX CABLE SIZE CONNECTOR ACCOMMODATES 350 KCM.

2. INSTALL INSULATED PROTECTIVE BOOT ON ALL SECONDARY JUNCTIONS.

3. EVENLY DISPERSE 40Z. OF INSECTICIDE GRANULES IN PAD OPENING.

UJB SECONDARY JUNCTION BOX		INSECTICIDE GRANULES	
UJ1-4A OR UJ1-4B 4PT SECONDARY JUN	CTION BOX - QTY 3	U3P90-48 PVC ELBOW	
GRAVEL		ID TAGS, COLORED TAPE, LABELS	
Bluebonnet	DATE APPROVED: JUNE 24, 2025	UNDERGROUND DISTRIBUTION	E-1







USGE-9 SWITCHGEAR CONSTRUCTION STANDARD

SOURCE







TAP

DEPTH 28" 			FILL TO FINISHED GRADE	3" MAX + 53" + 104" +	
BEC STK#	: QTY:	MATERIAL USGE-9	_		
13119	1	SWITCHGEAR, AIR, 2	-200 FUSE, 2-600 SWITCHES		
10988	2	ROD, GROUND 5/8"	X 8', 13 MIL CU CLAD		
10262	2	CLAMP, GRD ROD G	ALV 3/4 L		
10333	13	CONN, SPLIT BOLT C	C #2 L		
11196	6.148 lbs	WIRE, COPPER BARE	S.D. #2 7 STR L		
10732	4	INSECTICIDE ANT CO	NTROL L		
10779	6	LOCK, PADLOCK, STA	NDARD WITH BEC LOGO		
10386	6	CONN, INSUL. L.B. PAF	RKING STAND L		
10237	6	CAPS, ASSY GRD TER	MINATION L		
11202	26.12 lbs	WIRE, COPPER BARE	4/0 19 STR L		
10172	6	BUSHING, LB INSERT	25KV L		
14300	6	FITTING, FUSE END,	SM-20, 15/25 KV L		
	Blu	ebonnet	DATE APPROVED: June 24, 2025	UNDERGROUND DISTRIBUT	ION





Metering Guidelines

Latest Update to all specs can be found at Bluebonnetelectric.coop

For the member's safety, wiring installation and material shall conform to the requirements of the NEC, TDLR and NESC. All Wiring Installations must also meet local guidelines, if applicable, set forth but the city, county, or other governing entity in the event these requirements are more stringent than Bluebonnet specifications.

General Notes

Applicable to All Specs

- 1. Weatherproof fittings are required for all connections.
- 2. The main electrical disconnect for each electrical service, if not mounted on a Bluebonnet pole or on an approved rack, shall be unenclosed and installed on the exterior of the building or approved structure in a location approved by Bluebonnet Electric Cooperative
- 3. Meter assembly must remain unenclosed on the exterior of a structure.
- 4. Meter assembly cannot be mounted on a mobile home.
- 5. Any part of a meter rack or equipment rack shall be a minimum of six feet from Bluebonnet poles or equipment, and shall not impede access for maintenance to Bluebonnet's poles or equipment.
- 6. Bluebonnet poles must remain free of structures and private attachments other than the meter loop/meter loop riser assembly.
- 7. Meter loops or risers shall be installed on pole by Bluebonnet.
- 8. All secondary connections are to be made by Bluebonnet.
- 9. Neutral(s) must be insulated and may only be reduced two sizes on residential applications. No reduction of the neutral(s) is allowed on commercial applications.
- 10. Each phase must be sized to accommodate the total main fuses or breakers installed
- 11. Electric service to fire pumps shall be served through a CT-metered service.
- 12. Where three-phase is used to provide single-phase service to individual occupants, the load must be balanced between all three phases as equally as possible. This applies whether the single phase services are individually metered or not.
- 13. For all jobs requiring excavation, including rack or underground, the individual or contractor performing the work shall call TEXAS811 for locating jobs before digging to Bluebonnet equipment. No private utilities will be located.
- 14. Mobile Home Feeder Cables may not be used from Transformer or UJB to Meter unless the fourth (Green or Bare) Ground wire can be and is removed before installing.



METERING GUIDELINES

CT Metering Notes

Applies to: MS-112B1, MS-112B3, MS-113B1, MS-113B3, MS-114A1, MS-114B3, MS-115-1, MS-115-3, MS-202A1, MS-202B3, MS-204B1, MS-204B2, MS-204B3, MS-207B, MS-301B, MS-301C, MS-406A, MS-533-1, MS-533-3, MS-554-1, MS-554-3

1. CT Enclosures may be purchased from Techline (512-332-2978) and Installed by Member:

Minimum Size 1 Phase: Main Enclosure 30" x 30" x 12"

Backup Enclosure 24" x 30" x 13"

Minimum Size 3 Phase: Main Enclosure 42" x 30" x 13"

Backup Enclosure 24" x 30" x 13"

- 2. CT enclosures may be purchased at any supplier as long as it meets the minimum dimensions and is able to accommodate a Bluebonnet pad lock.
- 3. Bluebonnet to provide CTs.
- 4. The electrical contractor will notify Bluebonnet 72 hours in advance to schedule Bluebonnet personnel to deliver the CT's. The electrician shall install the CT's on the rack with the correct polarity before the conductor is brought through the CT enclosure. Call **(800-842-7708)** to schedule a connect.
- 5. Electric service to fire pumps shall be served through a CT-metered service.

Standby Generator Notes

Applies to: MS-400, MS-401, MS-401A, MS-402, MS-402A, MS-403, MS-404, MS-405, MS-406, MS-406A, MS-407, MS-408, MS-412

- 1. Generators shall be placed a minimum of 15' away from Bluebonnet's pole(s) and/or equipment and outside of Bluebonnet's easement.
- 2. Transfer switches may be on Bluebonnet pole, only if they are in place of a main panel. They may not be in addition to a panel.
- 3. Any transfer switch that serves as a main (first device past meter) must be service rated
- 4. Generators must be connected with a dedicated transfer switch. Breaker interlocks are not acceptable.
- 5. Portable generators may be connected to an inlet through a transfer switch.
- 6. Transfer switches that plug into the meter base are not acceptable.

Renewable Energy Connection Notes

Applies to: MS-501, MS-502, MS-507T, MS-553-1, MS-553-3, MS-554-1, MS-554-3, MS-41115, MS-41119

- 1. The solar and/or battery disconnect(s), if not mounted on an approved rack, shall be installed on the exterior of the building or approved structure in a location approved by Bluebonnet Electric Cooperative.
- 2. DG disconnect must be clearly labeled and identified.
- 3. Bluebonnet poles must remain free of structures and private attachments other than the meter loop assembly or riser.
- 4. Inspection may be required by local jurisdiction if applicable.
- 5. DG meter or equipment rack (If Applicable) shall be a minimum of 6' away from Bluebonnet's poles and/or equipment.
- 6. Any installation with Batteries are required to have an accessible disconnect or method of shutdown to disable batteries.



METERING GUIDELINES

SELF CONTAINED (200 AMPS OR LESS)



CT. RATED (LARGER THAN 200 AMPS)



Standards Jan. 30, 2024

JW

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Notes:

- Line taps shall be made in the galvanized wiring 1. trough by the electrical contractor.
- 2 Weatherproof fittings Required.
- (2) disconnects could be substituted with (1) 3. disconnect. All disconnects shall have over current protection installed.
- No more than (2) risers or (2) conductors per phase 4. shall be allowed.
- 5 Wire shall be sized to total name plate disconnect sizes.
- Neutral(s) may be reduced no more than two sizes on 6. residential application. No reduction of the neutral(s) is allowed on commercial application.
- 7. The electrical contractor will notify Bluebonnet 72 deliver the CT's before the service wire is pulled. The electrician shall install them on the rack with the correct polarity before the conductor is brought thru the 30"x42" (minimum size) CT enclosure. Call 800-842-7708 to schedule a connect.

- 8 More than (6) main disconnects require a properly sized main disconnect ahead of the galvanized trough.
- 9 Bluebonnet pole must remain free of structures and private attachments other than meter loop riser assembly.
- 10. Meter assembly must remain unenclosed on exterior of structure. 11. <u>Type K-4, Bolt-in type meter can:</u> Description: 400

#####**!**

- amp, 4 terminals, 3-wire, residential/commercial socket single phase self-contained, large cover plate. These meter cans are available for purchase through Techline (512-332-2978) or any other electrical supplier provided it meets all Bluebonnet Electric Cooperative specifications.
- 12. Maintain 3"-6" distance from the disconnect and the meter can. Member shall use a metal nipple. A straight or offset nipple is acceptable.
- hours in advance to schedule Bluebonnet personnel to 13. The main electrical disconnect for each electrical service shall be installed on the exterior of the building in a location approved by Bluebonnet Electric Cooperative.











Notes:

- 1. Main disconnect panel may not be used as a electrical race way.
- 2. Line tap's shall be made by the electrical contractor if a galvanized wiring trough is used.
- 3. Weatherproof fittings required.
- Any combination of six disconnects totaling no more than 400 amps can be used. REF. NEC, SEC 230.71
- 5. Recommended wire size is either parallel 2/0 THHN copper or parallel 4/0 THHN aluminum.
- 6. Neutrals may be reduced no more than two sizes on residential applications. No reduction of the neutrals is allowed on commercial applications.
- 7. Member shall install an additional of 10' wire for termination.
- 8. Weatherproof main disconnect panels shall have a single
- main breaker or 6-handle main as defined in the NEČ. 9. Metering point must remain unenclosed on exterior of structure.
- 10. Metering cannot be mounted on the side of a mobile home.

- 11. All secondary connections in transformer are made by Bluebonnet.
- 12. Only 400 Amps meter cans are allowed. <u>No 320 Amp Meter Cans are allowed</u>.
- 13. 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.
- 15. Member/Electrician shall coordinate with Bluebonnet personal to install all conduit and the pulling of the secondary wire to the transformer. Member/Electrician shall notify Bluebonnet 48 hours in advance to schedule a time/date to perform the work.
- 16. If additional trips are made to the site by Bluebonnet personnel, applicable fees maybe applied.
- 17. Maintain 3"-6" distance between the disconnect and the meter can. Member shall use a metal nipple. A straight or offset nipple is acceptable.
- 18. Largest wire to be pulled in to the meter can is 500 MCM Cooper.
- 19. A detailed load sheet shall be filled out and returned to Bluebonnet before the service will be connected.
- 20. #6 solid, bare ground copper wire and clamp to Bluebonnet's pole ground.
- 21. The main electrical disconnect for each electrical service shall be installed on the exterior of the building in a location approved by Bluebonnet Electric Cooperative.









