

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 over 98,000 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 approximately 11,619 miles of distribution lines. The organization owns 20 substations and purchases power at 21 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 www.bluebonnet.coop 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

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Development Information Request Form

SUBDIVISION or PROJECT NAME	<u>. </u>
LOCATION OF PROJECT:	
DEVELOPER'S NAME:	NHONE
REPRESENTED BY:	PHONE: E-mail:
MAILING ADDRESS:	L-man
ENGINEERING FIRM:	NIONE
REPRESENTED BY:	PHONE:
	E-mail:
TYPE OF PROJECT:	SECTION NUMBER OF LOTS TOTAL LOTS
(Check all that apply)	(Insert Section #) (In this section) (In all sections)
☐ RESIDENTIAL	<u> </u>
☐ APARTMENTS	
☐ MOBILE HOME/RV PARK	
☐ COMMERCIAL	
□ OTHER	
Taying junisdiction(s) and antitios in u	which development fells (in City Limits County, etc.) as well as physical
(011) Address of Development	which development falls (ie. City Limits, County, etc.) as well as physical
Estimated number of units to be const	cructed and occupied within the first 12 months.
Anticipated total project completion d	late
Homebuilder & Contact Person	Phone #_(
OTHER UTILITY PROVIDERS (Co.	
□ WATER	
☐ GAS (YES or NO)	
CABLE	
☐ TELEPHONE	
I OAD EVDECTATIONS, (Charle Al	1 That Apply
LOAD EXPECTATIONS: (Check Al LIFT STATION/WASTE WA	
□ WATER WELL	AILKILANI
☐ HOME SIZES FROM	TO SQ FT.
☐ AMENITY CENTER, PARK	
☐ COMMERCIAL SITES WIT	
	onsible party for monthly lighting charges
☐ IRRIGATION SYSTEMS	
□ OTHER:	
Upon completion of this form, please	return via fax to (979)542-4150, attn: Project Coordination.
D : : : : : : 1	
	nowledging receipt and understanding of this packet and you agree to abide
and comply with all requirements	and policies within.
Developer / Agent / Owner	Date

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.
	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).
Ш	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 cannot commence until 20 working days after receipt of this
_	payment.
	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. Daysland is responsible for answing conduit contractor and/or subcontractor adherence to
ш	Developer is responsible for ensuring conduit contractor and/or subcontractor adherence to all Bluebonnet Construction Specifications at all times.
П	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.
	instantation is certified by a Diacoomiet 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 www.bluebonnet.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, 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 non-compliance 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

Tim Joswiak – 979-251-4044, tim.joswiak@bluebonnet.coop
Pat Majewski – 512-227-2043, pat.majewski@bluebonnet.coop
Carl Miller – 979-540-6495, carl.miller@bluebonnet.coop
George Martinez – 512-888-6310 george.martinez@bluebonnet.coop

Bluebonnet Specifications

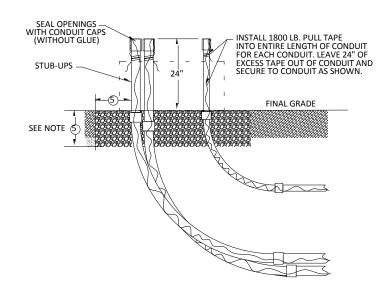
Ditch and Conduit Placement
Road Crossing
Pad Mount Switchgear Easement Requirements
Dimensions and Wiring Single-Phase Transformer
Dimensions and Wiring Single-Phase Sectionalizer
Three-Phase Transformer Pad 45-750 kVA
Three-Phase Transformer Pad 1000-2500 kVA
Dimensions for Three-Phase Sectionalizer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

DITCH AND CONDUIT PLACEMENT NON-ROAD CROSSING

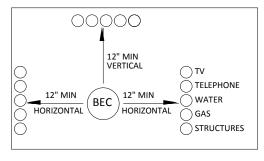
DITCH ASSIGNMENT FRONT VIEW

FINAL GRADE -CLEAN BACKFILL 48" SEE (3) WARNING TAPE 10" BLUEBONNET PRIMARY & SECONDARY CONDUIT APPROX. 1" SEPARATION WIDTH AS NECESSARY FOR ADEQUATE SPACING.

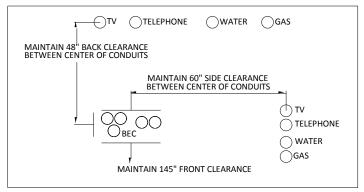
CONDUIT STUB-UP SIDE VIEW



CONDUIT CLEARANCES FRONT VIEW



CONDUIT STUB-UP CLEARANCES TOP VIEW



ANY CONDUITS STUBBED OUT FOR FUTURE USE SHALL EXTEND A MINIMUM OF 5' FROM EQUIPMENT. ENDS SHALL BE MARKED WITH 3" DIAMETER GREY PVC CONDUIT, EXTENDING 4' ABOVE GRADE AND PAINTED RED.

NOTES:

- 1. CONDUIT SHALL BE GREY SCHEDULE 40 PVC. | PRIMARY & SECONDARY= 3" | LIGHTING= 2"
- 2. CONDUIT ELBOW: PRIMARY & SECONDARY= 90°, 48" SWEEP | STREETLIGHT = 90°, 24" SWEEP
- 3. NORMAL DITCH COVER DEPTH IS 48". ADJUSTMENTS MAY BE MADE TO 48" DEPTH IF NECESSARY UPON BLUEBONNET APPROVAL.
- 4. SEPARATION FROM OTHER UTILITIES SHALL BE 12" MINIMUM OR SUFFICIENT TO PREVENT ANY FORESEEN DAMAGE OF EITHER FACILITY TO THE OTHER.
- 5. GRAVEL FOR PADS SHALL BE 3/8" WASHED PEA GRAVEL. DEPTH AND WIDTH SHALL BE TO EQUIPMENT SPECIFICATION.



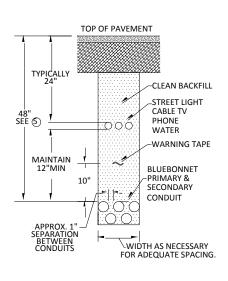
UNDERGROUND DISTRIBUTION

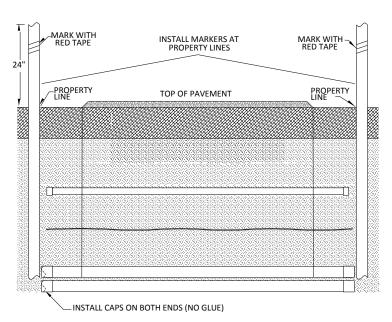
J-3

DITCH AND CONDUIT PLACEMENT ROAD CROSSING

CONDUIT FRONT VIEW

CONDUIT SIDE VIEW





ANY CONDUITS STUBBED OUT FOR FUTURE USE SHALL EXTEND A MINIMUM OF 5' FROM EQUIPMENT. ENDS SHALL BE MARKED WITH 3" DIAMETER GREY PVC CONDUIT, EXTENDING 4' ABOVE GRADE AND PAINTED RED.

NOTES:

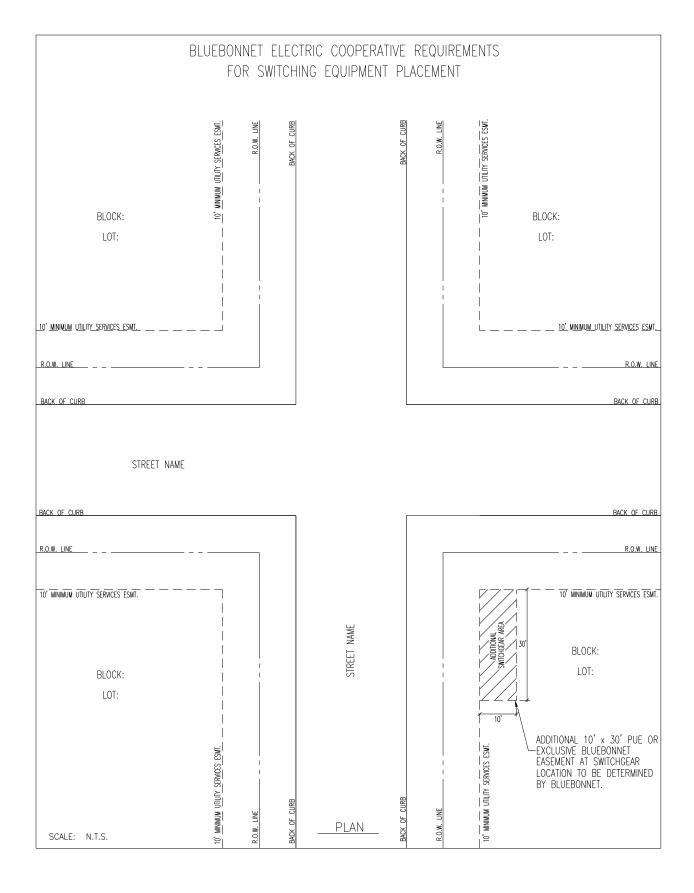
- 1. STATE AND LOCAL CODES MAY REQUIRE DIFFERENT STANDARDS, IN WHICH CASE THE MOST STRINGENT CODE SHALL TAKE PRECEDENCE.
- 2. CONDUIT SHALL BE MINIMUM GRAY SCHEDULE 40 PVC. | PRIMARY & SECONDARY = 3" | LIGHTING = 2"
- 3. CONDUIT ELBOW: PRIMARY & SECONDARY = 90°, 48" SWEEP | LIGHTING = 90°, 24" SWEEP
- 4. LENGTH OF CONDUITS SHALL BE FROM PROPERTY LINE TO PROPERTY LINE.
- 5. NORMAL COVER DEPTH IS 48". ADJUSTMENTS MAY BE MADE TO 48" DEPTH IF NECESSARY UPON BLUEBONNET APPROVAL.

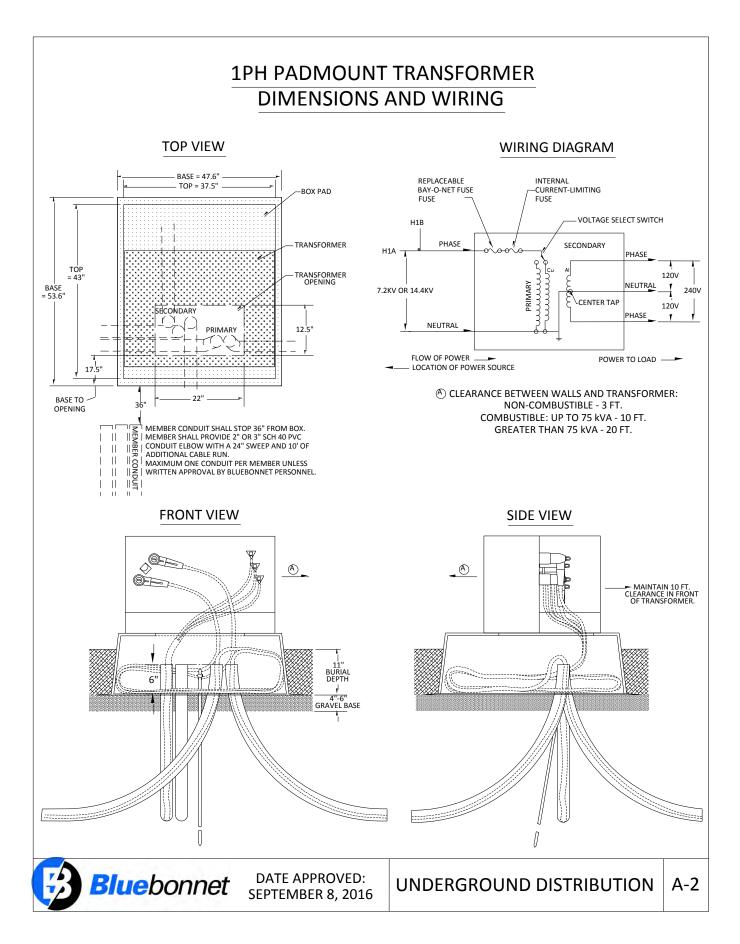


DATE APPROVED: SEPTEMBER 8, 2016

UNDERGROUND DISTRIBUTION

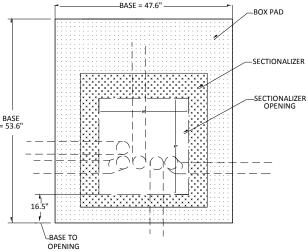
J-4





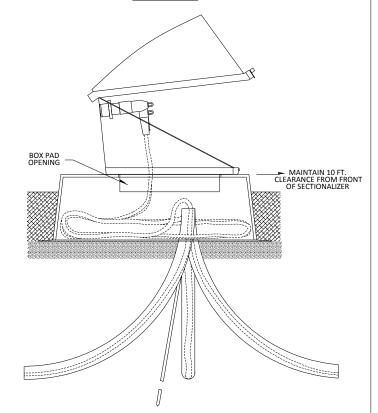
1PH PADMOUNT SECTIONALIZER **DIMENSIONS AND WIRING**

TOP VIEW BASE = 47.6"



SIDE VIEW

FRONT VIEW MAINTAIN 3 FT. CLEARANCE FROM SIDES OF SECTIONALIZER 25" 4"-6" GRAVEL BASE

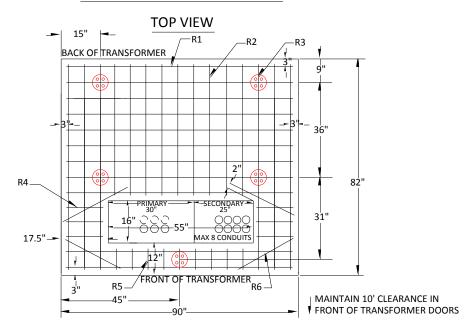


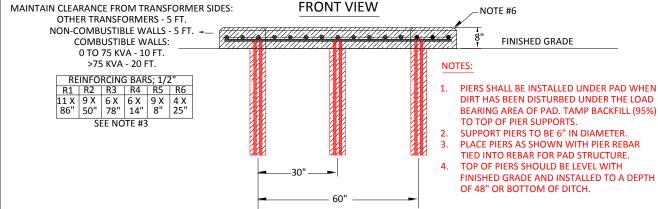


UNDERGROUND DISTRIBUTION

C-2

3PH TRANSFORMER PAD 45 - 750 KVA (UM3-A)





ANY CONDUITS STUBBED OUT FOR FUTURE USE SHALL EXTEND A MINIMUM OF 5' FROM EQUIPMENT. ENDS SHALL BE MARKED WITH 3" DIAMETER GREY PVC CONDUIT, EXTENDING 4' ABOVE GRADE AND PAINTED RED.

NOTES:

- 1. TAMP GROUND UNDER PAD BEFORE SETTING TO PREVENT UNEVEN SETTLING.
- 2. CONCRETE: 3000 POUNDS MIN. PER SQUARE INCH; 4% TO 6% ENTRAINED AIR, 3/4" MAX. SIZE AGGREGATE.
- 3. REINFORCING STEEL: ATSM-A615 GRADE 60; EVENLY SPACE APPROXIMATELY 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.
- 4. MINIMUM 2 INCH CONCRETE COVER OVER REINFORCING STEEL.
- 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. IF FUTURE EXPANSION TO A TRANSFORMER LARGER THAN 750 KVA IS POSSIBLE, BLUEBONNET MAY REQUEST THE CONSTRUCTION OF THE PAD ON PAGE B-6.
- 9. MAXIMUM OF 8 CONDUITS, 4" SCHEDULE 40 PVC PIPES ARE ALLOWED IN THE SECONDARY COMPARTMENT.
- 10. STUB THE SECONDARY PIPES AS CLOSE TO THE EDGE SECONDARY CUTOUT AS POSSIBLE. (SEE DRAWING)
- 11. MAXIMUM OF 6 CONDUITS, 3" SCHEDULE 40 PVC PIPES ARE ALLOWED IN THE PRIMARY COMPARTMENT.

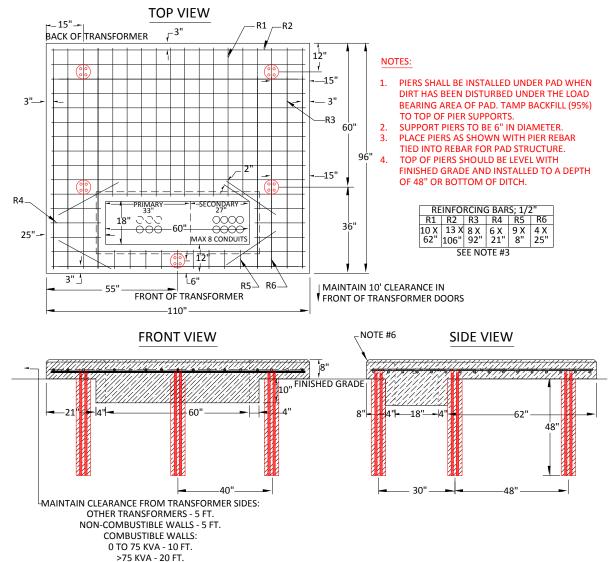


DATE APPROVED: December 28, 2018

UNDERGROUND DISTRIBUTION

B-5

3PH TRANSFORMER PAD 1000 - 2500 KVA (UM3-B)



NOTES:

- 1. TAMP GROUND UNDER PAD BEFORE SETTING TO PREVENT UNEVEN SETTLING.
- 2. CONCRETE: 3000 POUNDS MIN. PER SQUARE INCH; 4% TO 6% ENTRAINED AIR, 3/4" MAX. SIZE AGGREGATE.
- 3. REINFORCING STEEL: ATSM-A615 GRADE 60; EVENLY SPACE APPROXIMATELY 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.
- 4. MINIMUM 2 INCH CONCRETE COVER OVER REINFORCING STEEL.
- 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.



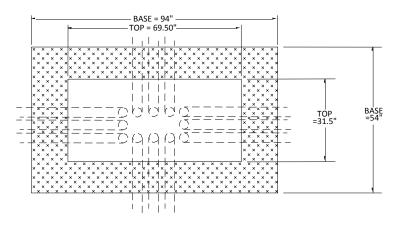
DATE APPROVED: December 28, 2018

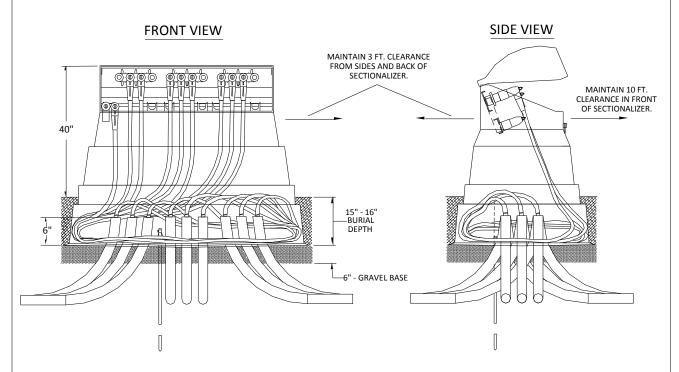
UNDERGROUND DISTRIBUTION

B-6

3PH 600A SECTIONALIZER - DIMENSIONS

TOP VIEW





ANY CONDUITS STUBBED OUT FOR FUTURE USE SHALL EXTEND A MINIMUM OF 5' FROM EQUIPMENT. ENDS SHALL BE MARKED WITH 3" DIAMETER GREY PVC CONDUIT, EXTENDING 4' ABOVE GRADE AND PAINTED RED.

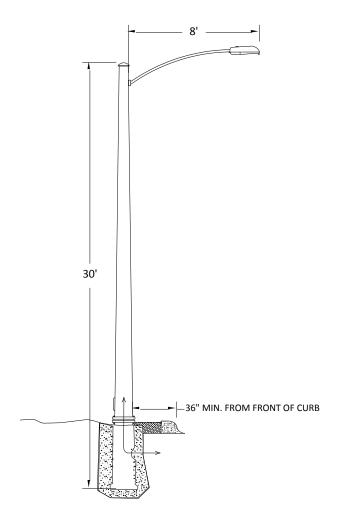


DATE APPROVED: SEPTEMBER 8, 2016

UNDERGROUND DISTRIBUTION

D-2B

STANDARD RESIDENTIAL STREETLIGHT MAST, ARM AND HEAD

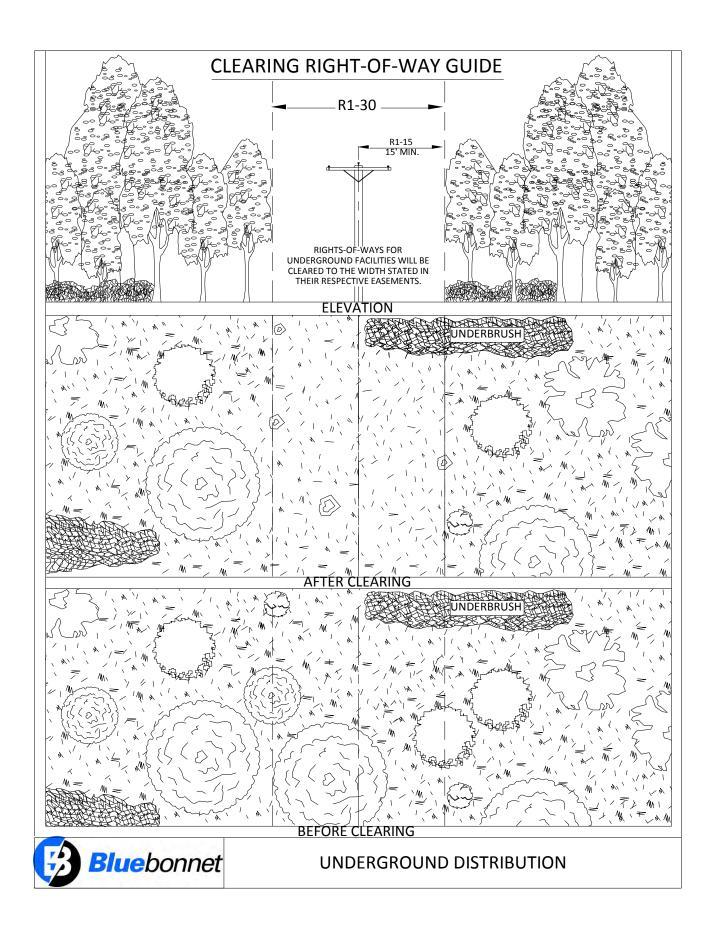


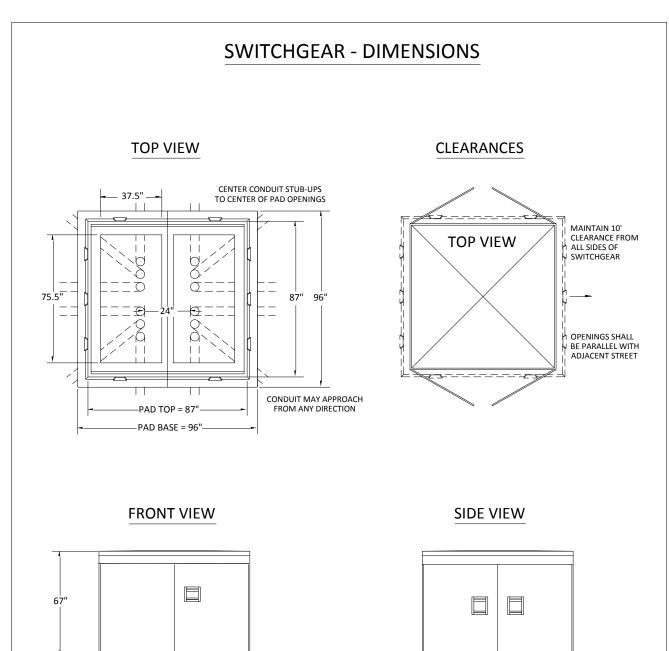
- 1. COBRAHEAD FIXTURE, LED PHOTOCELL CONTROLLED.
- 2. IN THE ABSENCE OF A RAISED CURB, BLUEBONNET WILL DETERMINE THE LOCATION OF STREETLIGHT POLES BASED ON APPLICABLE ZONE CRITERIA.

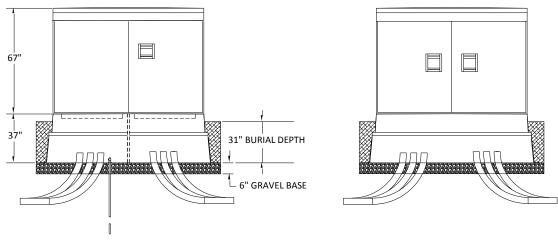
STOCK:	QTY:	MATERIAL:	
10202	40	CABLE, #14/2 W/GROUND	
10566	1	FOUNDATION, STEEL STREET LIGHT POLE	SL53-8S
14842	1	POLE, ALUMINUM 30 FT. STREET LIGHT W/ 8 FT. ARM	JLJJ-03
15580	1	LUMINAIRE, 53 WATT LED W/ PHOTOCELL (USED ON SL53-8S ONLY)	SL94-8S
15970	1	LED, STREETLIGHT MULTI VOLT 200/250W EQUIVALENT (USED ON SL94-8S ONLY)	3634 03
15971	1	LED, STREETLIGHT MULTI VOLT 4/400W EQUIVALENT (USED ON SL140-8S ONLY)	SL140-8S
10311	1	CONN, GROUND TRANS #8- 2/0	36140 03



UNDERGROUND DISTRIBUTION



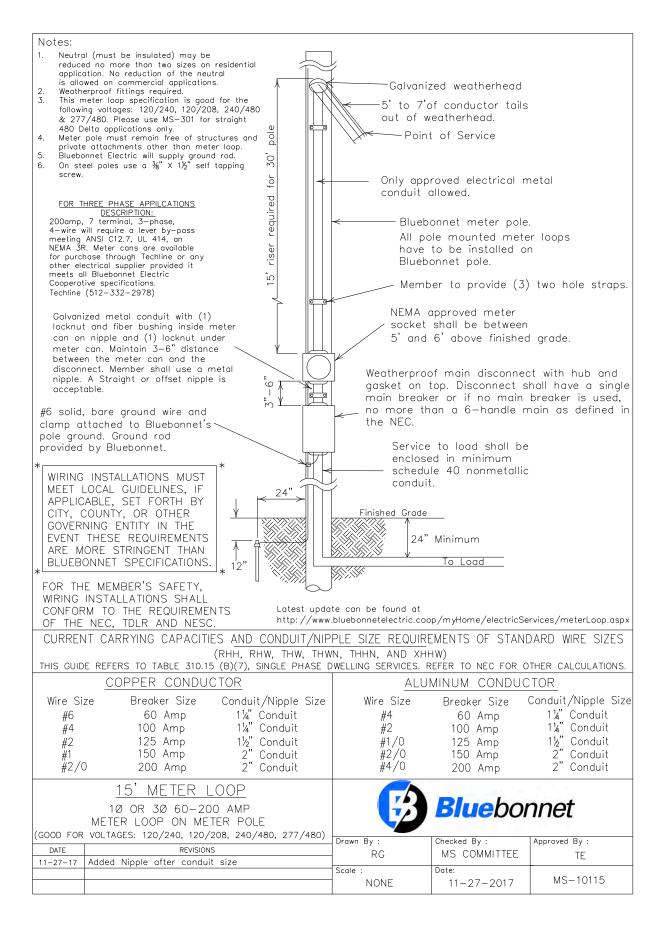


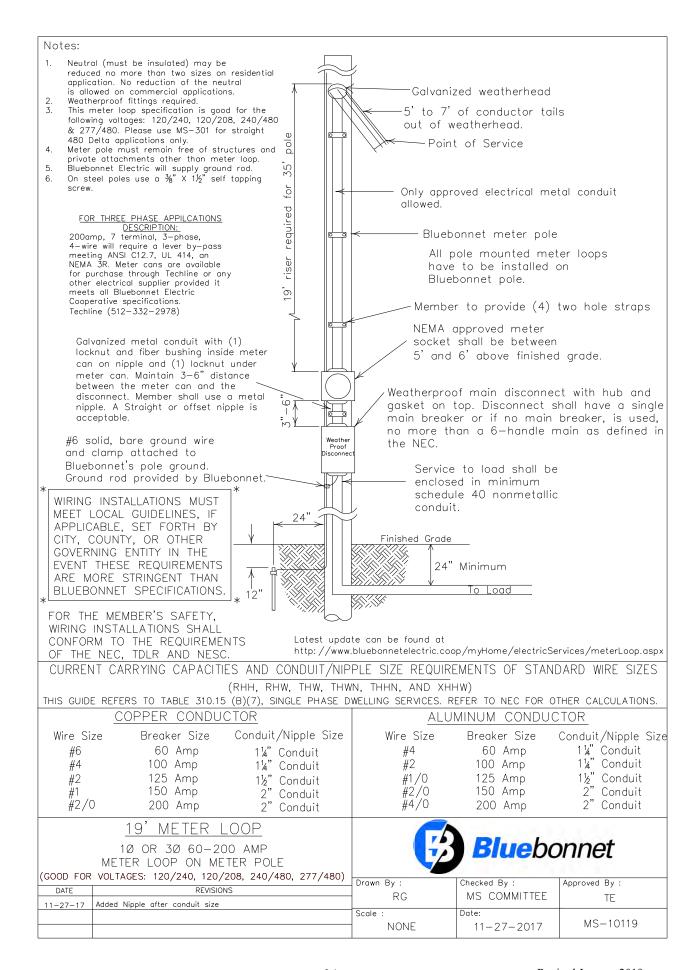


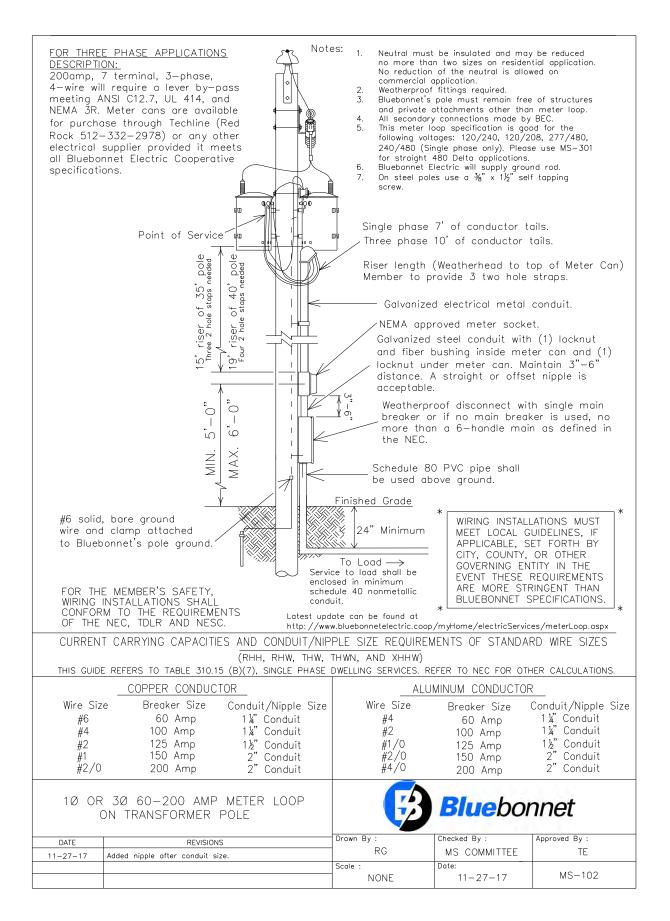


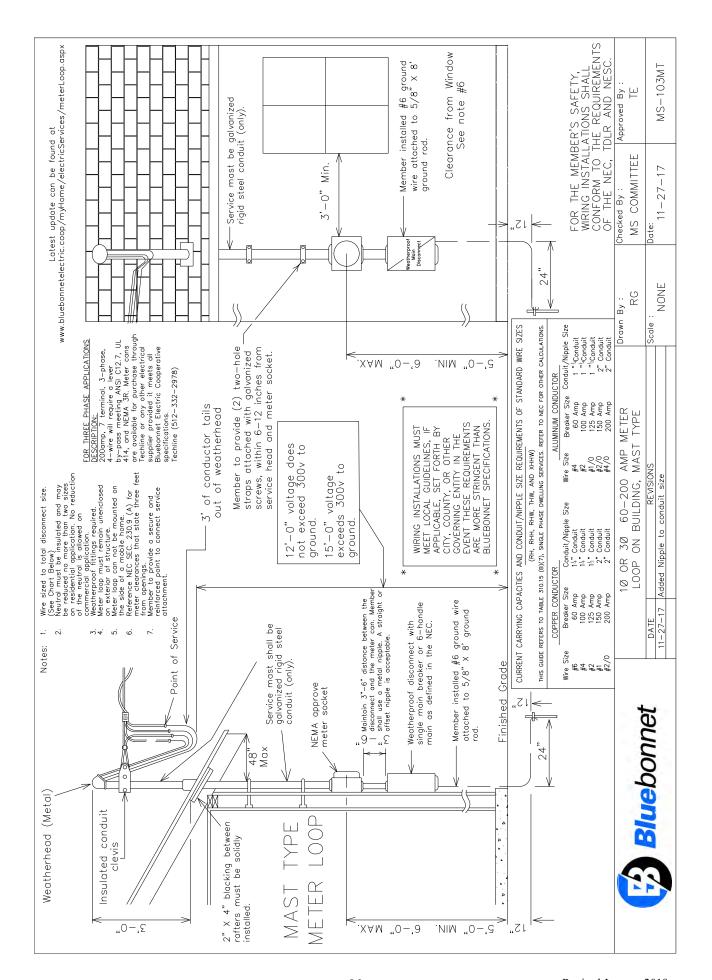
DATE APPROVED: SEPTEMBER 8, 2016

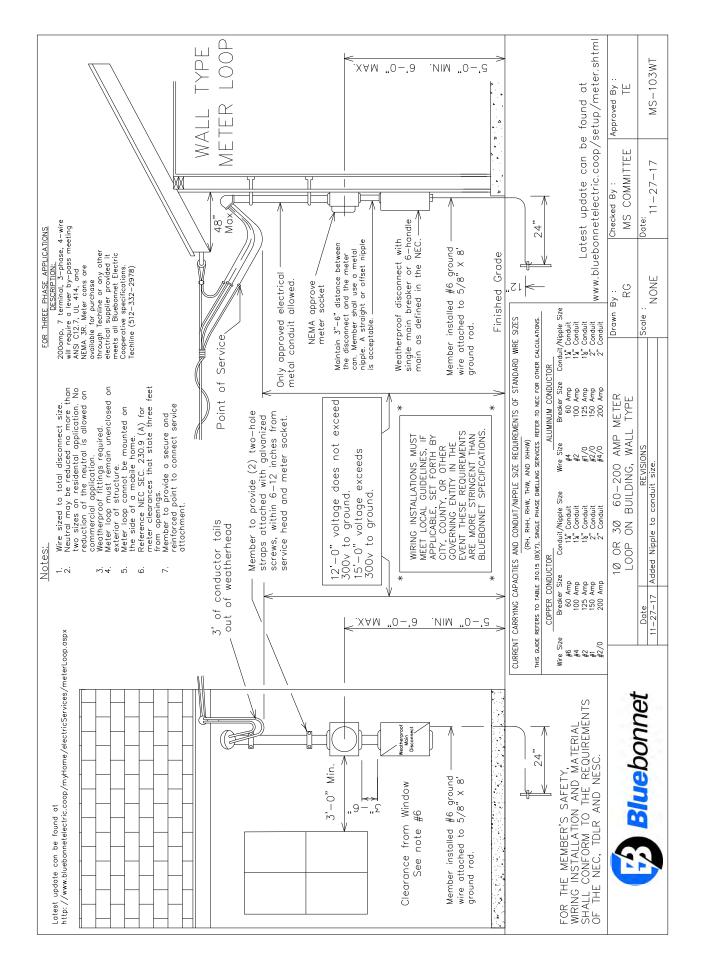
UNDERGROUND DISTRIBUTION

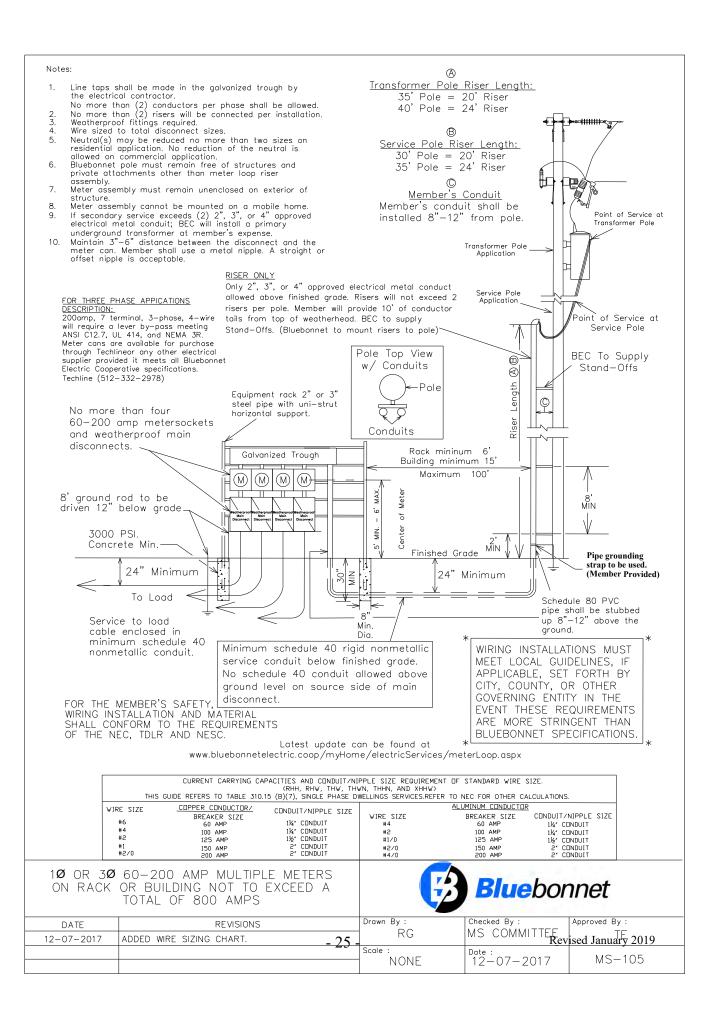


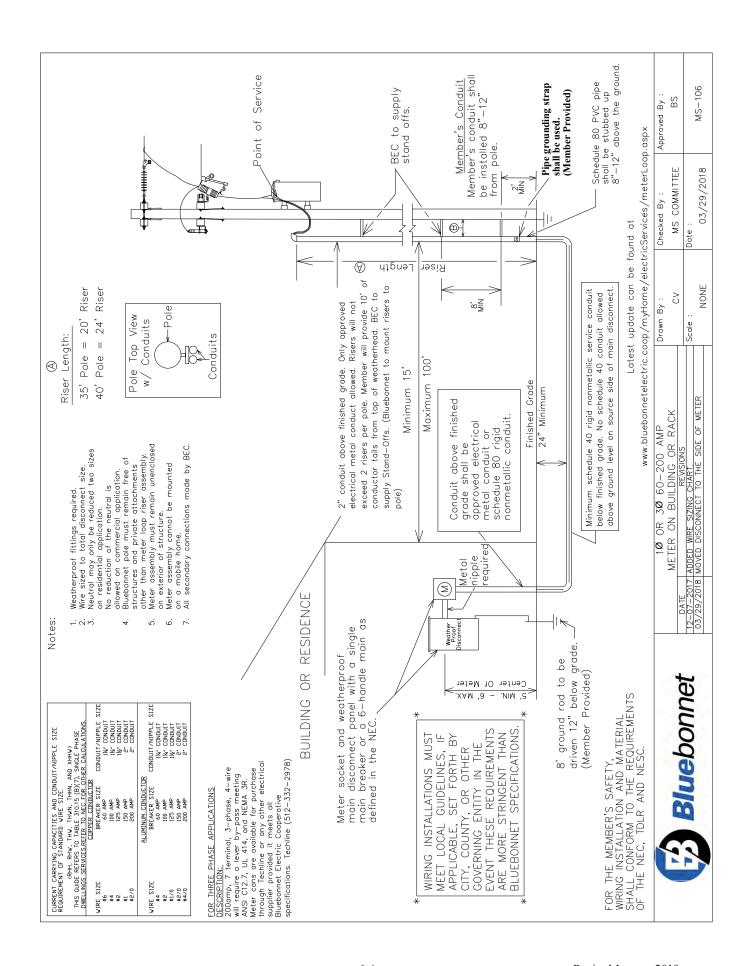






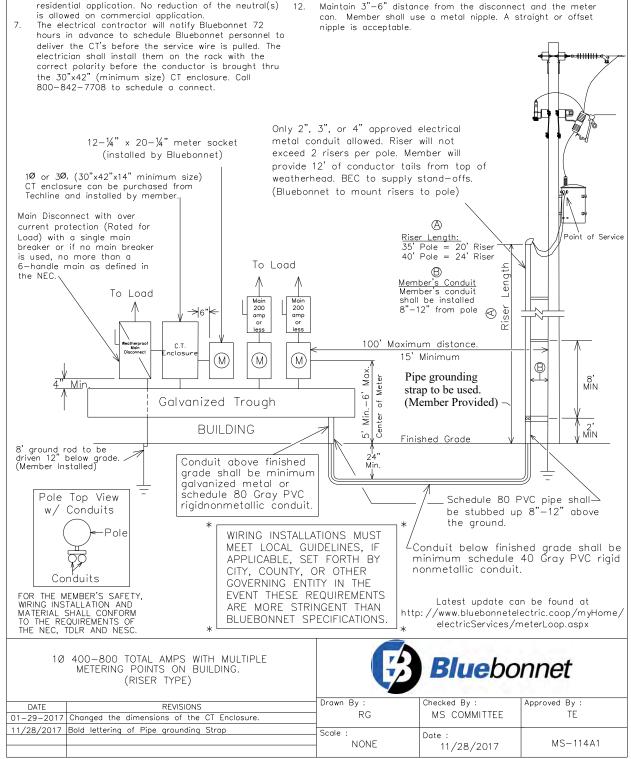






Notes:

- Line taps shall be made in the galvanized wiring trough by the electrical contractor.
- Weatherproof fittings Required.
- (2) disconnects could be substituted with (1) disconnect. All disconnects shall have over current protection installed.
- No more than (2) risers or (2) conductors per phase 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 residential application. No reduction of the neutral(s)
- More than (6) main disconnects require a properly sized main disconnect ahead of the galvanized trough.
- Bluebonnet pole must remain free of structures and private attachments other than meter loop riser assembly.
- Meter assembly must remain unenclosed on exterior of structure.
- Type K-4, Bolt-in type meter can: 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.



Notes:

- Line taps shall be made in the galvanized wiring
- trough by the electrical contractor. Weatherproof fittings Required.
- (2) disconnects could be substituted with (1) disconnect. All disconnects shall have over current protection installed.
- 4 No more than (2) risers or (2) conductors per phase 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 residential application. No reduction of the neutral(s) is allowed on commercial application.
- 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

- More than (6) main disconnects require a properly sized main disconnect ahead of the galvanized trough.
- 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.
- Type K-4, Bolt-in type meter can: 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.
 - Maintain 3"-6" distance from the disconnect and the meter can. Member shall use a metal nipple. A straight or offset nipple is acceptable.

