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RESPONSIBILITIES FOR NEW RESIDENTIAL SERVICE BLACK HILLS ENERGY/CUSTOMER

Black Hills Energy Responsibility

- A. Black Hills Energy will supply
 - a. Primary Conductors
 - i. Either overhead or underground
 - ii. Located on Right-of-Way(s) or utility easement
 - b. Secondary conductors from overhead transformer to meter
 - c. Transformer
 - d. Meter
- B. Installation of the above

Customer Responsibility

- A. Initial Information
 - a. Service Size (voltage, amperage, phase)
 - b. Type of load (gas heat, electric heat, total electric home, demand controller, seasonal, commercial, etc)
 - c. Location of service
- B. Signed Court House copy of following for each parcel crossed. Owner of record will need to sign Right-of-Way.
 - a. Warranty Deed and Certified Plat (showing book and page)

OR

- b. Contract for Deed
- c. Pay any applicable fees before construction
- C. Sign and return the Electric Service Extension contract
- D. Wiring affidavit sent to State
 - a. Affidavit sticker to be mounted on service
- E. Trench, Conduit and Backfill (for underground cable)
 - a. Proper sized conduit per Black Hills Energy specifications
 - b. Proper bedding per Black Hills Energy specifications
 - c. Backfill over bedding
- F. All tree trimming per Black Hills Energy specifications
- G. Meter base, CT enclosures, meter pedestals, transitions cabinets, and conductors from meter to main panel
- H. Install transformer pad
- I. Furnish and install secondary conductors from underground transformer customer owned facilities
- J. Completion of Grade Agreement

RESPONSIBILITIES FOR NEW COMMERCIAL SERVICE - PROPERTY DOCUMENTS

Before Black Hills Energy can extend our power lines to your new residential service we need to have permission to build on your property and possibly your neighbor's property. The permission would be either in the form of an already existing "easement" or a signed "Right-of-Way".

Existing Utility Easement

A utility easement gives a utility the right to place their equipment on your property within the easement. There may be an existing easement on or near your property. The easement may be located along roads, along lot lines or other defined areas. Easements come in the form of drawn easements or described (written) easements. If your property is in a "platted" development, existing utility easements may be shown or noted on a document known as a plat. The official plat is located at your county court house in the Register of Deeds.

If your property has not been platted it is known as "described" property. Easements for described property may also be in the form of drawn easements or as described (written) easements.

Easements on both described and platted properties may be shown or noted either on a drawn or described (written) "exhibit". This document may be filed as a "miscellaneous document".

If it is unknown whether a utility easement exists on your property a search may need to be done in the Register of Deeds.

Signed Easement

If a utility easement does not exist, an Easement needs to be produced and signed. An Easement gives a utility the right to place their equipment on your property. The Easement document may be produced using copies of existing plats or described property as found in the Register of Deeds. Any Easement needs to be signed by the owner of the property. In the case of a Contract for Deed the Easement needs to be signed by the person(s) selling the property and the person(s) purchasing the property through the contract. Black Hills Energy will provide the needed Easement form for you to use to either execute an Easement or obtain one from neighboring property owners that the power line will need to cross.

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In order for Black Hills Energy to know who owns the property our power lines will cross to serve you, a deed is also needed from the Register of Deeds. A deed can be in the form of a Warranty Deed, a Quitclaim Deed or a Contract for Deed. Any of these show who the owner or owners are of platted or described real estate.

Warranty Deed

This document names the current owner(s) and who the property was purchased from. The Warranty Deed also describes exactly what property is owned. The official Warranty Deed is located at your county courthouse in the Register of Deeds.

Quitclaim Deed

This document names the current owner(s) and who the property was purchased from. The Quitclaim Deed also describes exactly what property is owned. The official Quitclaim Deed is located at your county courthouse in the Register of Deeds.

Contract for Deed

This document names the current owner(s) and who is currently purchasing the property. The Contract for Deed also describes exactly what property is owned. The official Contract for Deed is located at your county courthouse in the Register of Deeds.

It is the responsibility of the person requesting new electrical service to gather the required documents from the county courthouse. For every separate piece of real estate crossed by the new electric extension a copy of the deed, as described above, needs to be supplied to Black Hills Energy. If the real estate noted on the deed copy has been platted then another document, a plat (copy of), is also required from the courthouse.

There are two ways for you to gather the documents needed for Black Hills Energy to extend our power lines to your new service.

Do it Yourself

The first way is for you to go to the courthouse to find and purchase copies of the Deed(s) and/or Plat(s). This may take the least out-of-pocket money but may also take the most time.

Hire it done

The second way is for you to hire someone skilled in this occupation to go to the courthouse to find and purchase copies of the Deed(s) and/or Plat(s) for you. This may be the quickest way but will cost you more. The following companies, among others, can assist you in gathering these documents:

Companies and Individuals able to do title, deed, and easement searches

BUTTE COUNTY CUSTER COUNTY

Belle Butte Title Co 713 6th Ave Belle Fourche, SD 57717 605-892-3949

LAWRENCE COUNTY

Black Hills Land Title Co 2011 N Main St Spearfish, SD 57783 605-642-7304

BLACK HILLS LAND TITLE CO

83 Sherman St Deadwood, SD 57732 605-578-2376

CUSTER COUNTY

Custer Title Co 322 Mt Rushmore Rd Custer, SD 57730 605-673-4838, contact: Joyce

FALL RIVER COUNTY

Fall River Abstract
PO Box 908
Hot Springs, SD 57747
605-745-5187, contact: Shelly

MEADE COUNTY

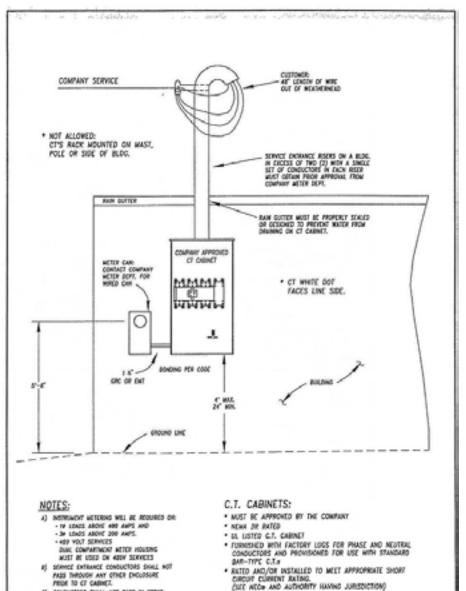
Meade County Title Co 1530 Junction Ave Sturgis, SD 57785 605-347-4402 Toll Free 1-800-732-7694

- THE CUSTOMER IS URGED TO MAKE EARLY CONTACT WITH THE COMPANY FOR PERMANENT SERVICE.
- AN AFFIDAVIT OR INSPECTION MUST BE OBTAINED FROM THE AUTHORITY HAVING JURISDICTION BEFORE SERVICE CAN BE PROVIDED.
- PERMANENT SERVICES MUST BE LOCATED WHERE THE METER WILL BE PROTECTED FROM MECHANICAL INJURY, SHOULD RELOCATION OF A PERMANENT SERVICE BECOME NECESSARY, THE RELOCATION COST WILL BE THE RESPONSIBILITY OF THE CUSTOMER.
- 4 OVERHEAD PERMANENT SERVICE DROPS SHALL BE SUPPORTED ON COMPANY APPROVED POLE, WALL, OR STRUCTURE. THE MAXIMUM SERVICE DROP LENGTH FROM COMPANY POLE TO THE SERVICE DEPENDS UPON CONDUCTOR SIZE. CONSULT WITH YOUR COMPANY REPRESENTATIVE TO DETERMINE THE MAXIMUM DISTANCE. PERMANENT SERVICE MUST MEET COMPANY STANDARDS.
- CUSTOMER OWNED METERING EQUIPMENT, SWITCHING DEVICES, CONDUITS, CONDUCTORS, LUMINARIES, ETC., ARE NOT TO BE MOUNTED ON COMPANY POLES.
- THREE (3) FEET MINIMUM WORKING SPACE REQUIRED BETWEEN ELECTRICAL METER AND ANY OTHER OBSTRUCTION ATTACHED TO THE BUILDING, (SEEDNEC REQUIREMENTS)
- CUSTOMER HAS RESPONSIBILITY TO PROVIDE AND MAINTAIN A THREE (3) FOOT CLEARANCE FROM ALL TREE LINES FOR THE ELECTRICAL OVERHEAD SERVICE FROM THE POLE TO THE SERVICE ATTACHMENT ON THE CUSTOMERS BUILDING OR DWELLING.
- WHEN PRACTICAL, EQUIPMENT OR OTHER OBSTRUCTIONS SHALL MAINTAIN A MINIMUM CLEARANCE OF TEN (10) FEET AWAY FROM A COMPANY POLE. THIS INCLUDES ITEMS SUCH AS TEMPORARY SERVICE PEDESTALS OR POLES, METER PEDESTALS, COMMUNICATION PEDESTAL, PADMOUNT TRANSFORMERS, FENCES, ETC...
- 9. GROUNDING REQUIREMENTS:
 - A. GROUND WIRE NO. 6 COPPER MINIMUM IN SEPARATE CONDUIT NOT IN WITH COMPANY WIRE.
 - B. GROUND BODS -- 8' LONG -- 5/8' GROUND ROD, AS PER CURRENT ISSUE O₱ N.E.C.
 - C. ALL GROUND RODS TO BE INSTALLED IN UNDISTURBED EARTH.
 - D. ALL GROUND RODS TO BE EMBEDGED BELOW PERMANENT MOISTURE LEYEL PER N.E.C.
- 18. METERING REQUIREMENTS: (METER FURNISHED BY COMPANY)
 - A. ALL METER HOUSINGS TO BE RING-LESS, NO RING TYPE.
 - B. ANY COMMERCIAL METER HOUSING MUST HAVE BYPASS HANDLE.
 - C. ANY RESIDENTIAL WETER HOUSING MUST HAVE HORN TYPE BYPASS.
 - ALL UNDER GROUND WETER HOUSINGS WUST BE AT LEAST 280 AMP AS PER COMPANY STANDARDS AND INSTALLED LEVEL IN ALL DIRECTIONS.
 - ALL PERMANENT OVER HEAD METER HOUSINGS MUST BE AT LEAST 150 AMP AS PER COMPANY STANDARDS AND INSTALLED LEVEL IN ALL DIRECTIONS.
 - F. METER HOUSINGS SHALL TO CONFORM TO ALL COMPANY CRITERIA. (REFER TO SECTION 4, METERING)
 - G. ALL METERS TO BE OUTSIDE OF BUILDINGS NOT INSIDE.
 - H. METER LOCATIONS SHALL BE DETERMINED BY THE COMPANY REPRESENTATIVE AND MAY VARY DEPENDING ON REAR OR FRONT LOCATION OF DISTRIBUTION FACILITIES.
 - IF SELF CONTAINED METER HOUSING IS NOT ATTACHED TO A BUILDING, A SERVICE DISCONNECT WILL BE REQUIRED ON THE LOAD SIDE OR ADJACENT TO THE METER HOUSING, BOTH DISCONNECT AND WIRE ON THE LOAD SIDE WILL BE CUSTOMER OWNED.
 - J. WHEN USING MULTIPLE WETER HOUSINGS THE SERVICE ADDRESS SHALL BE CLEARLY MARKED AND SECURELY ATTACHED TO METER SOCKET BY MEANS OF A PERMANENT STAMPED BRASS, ALUMINUM OR STAINLESS STEEL TAG.
- 11. CONDUIT:
 - A. PYC MINIMUM IS SCHEDULE 48.
 - NO LB ELBOWS ON LINE SIDE CONDUIT ALLOWED, ALL CORNERS SHALL BE OF THE SWEEP VARIETY.
 - C. SLIP SLEEVES ARE REQUIRED ON ALL PVC RISERS.
- CUSTOMER OWNED GUYING, WHEN REQUIRED, TO BE ADEQUATE FOR WIRE SIZE AND SPAN LENGTHS. SEE YOUR COMPANY REPRESENTATIVE FOR RECOMMENDATIONS.

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METER	6/4/19	US
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₩.	9	6/4/19

REQUIREMENTS FOR PERMANENT ELECTRIC SERVICE METERING STANDARDS DRAWING # 1410-SV1





witness thereon

INSTRUMENT METERING

OVERHEAD SERVICES

C) CONDUCTORS SHALL NOT PASS IN FRONT

of Buss on ct.

b) for coos in ct change

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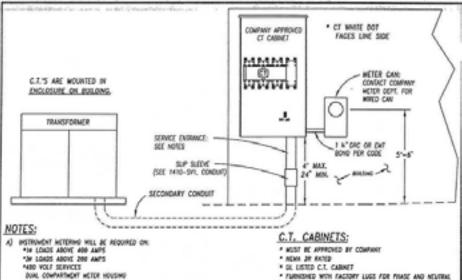
SHALL BE LINE SIDE.

9

1440-TR1

CABINET USE FOR SEPRICES UP TO 800 AMPS.
 PROSE APPROVAL FROM COMPANY METER DEPT.
 MUST BE OBTAINED FOR USE OVER 800 AMPS.

Alleck Mills Co.

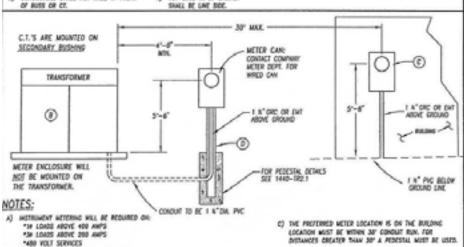


- MUST BE USED ON ARRY SERVICES
- 8) SERVICE ENTRANCE RISERS IN EXCESS OF TWO (2) WITH A SINGLE SET OF CONDUCTORS IN DACH RISER WIST GREAM PRIOR APPROVAL TROM COMPANY METER DEPT.
- C) SERVICE ENTRANCE CONDUCTORS SHIFLL NOT PASS THRU ART OTHER ENCLOSURE PROP TO CT CARRIET
- CONDUCTORS SHALL NOT PASS IN FRONT
- () TOP LOGS IN CT CARNET

CONDUCTORS AND PROVISIONED FOR USE WITH STANDARD But-first C.T.s. RATED AND/OR INSTALLED TO MEET APPROPRIATE SHORT CHECKET CURRENT RATING.

(SEE NEC AND AUTHORITY MANNE JURISDICTION)

" CABINET USE FOR SERVICES OF TO BOD AWPS.
PRIOR APPROVAL FROM COMPANY METER DEPT. MUST BE DETAINED FOR USE OVER 880 AWPS.



DUAL COMPURTURNT METER HOUSING MUST BE USED ON HORY SERVICES TRANSFORMER MUST BE FOR SINGLE CUSTOMER SERVICE ONLY

(DEDICATED TRANSFORMER)

D) METER PEDESTAL TO BE SUPPLIED BY THE

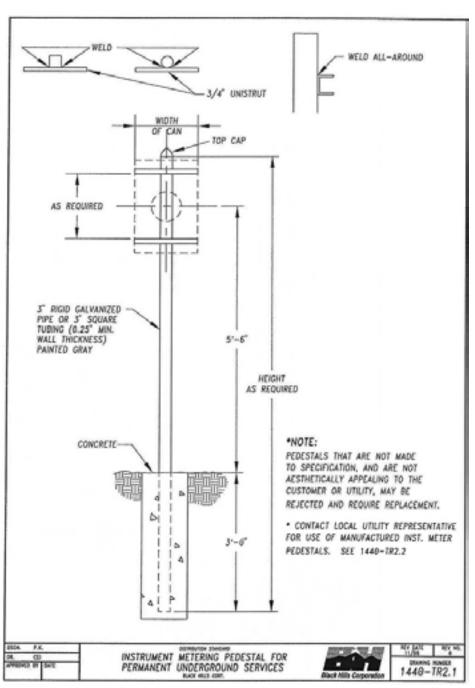
CUSTOMER.

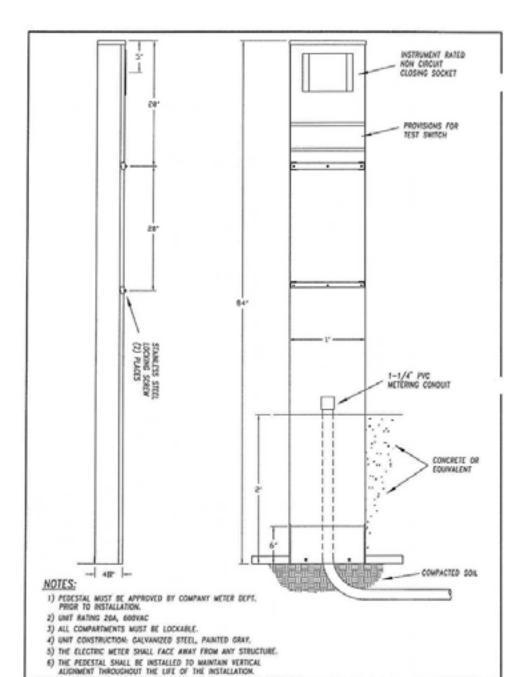
1440-TR2

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INSTRUMENT METERING UNDERGROUND SERVICES

11





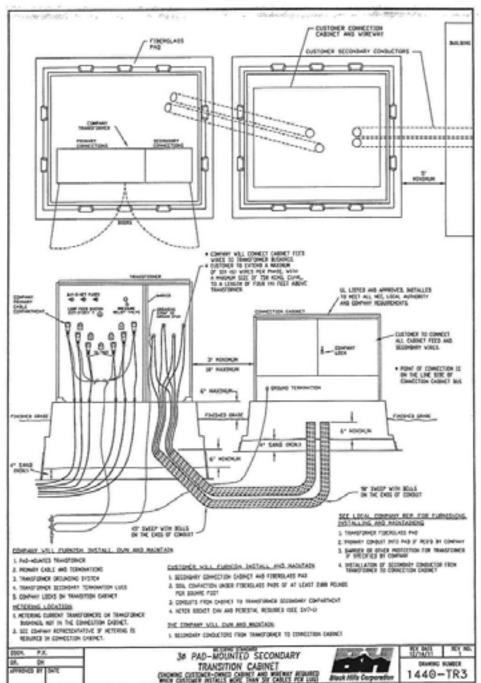
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MANUFACTURED INSRUMENT METERING PEDISTAL FOR PERMANENT UNDERGROUND SERVICE

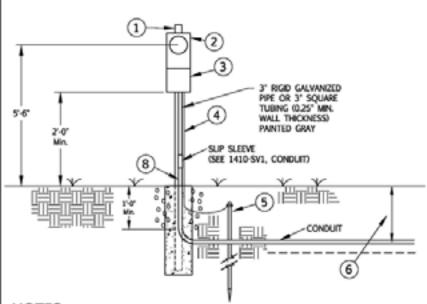


1440-TR2.2

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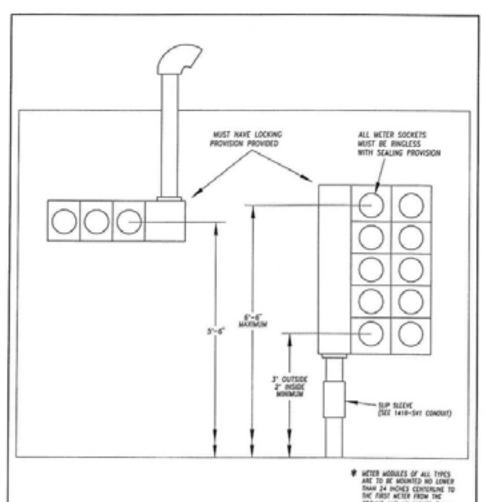
NOTES:

- FOR PEDESTAL DETAIL SEE: 1410-5V5.1, FOR UL. APPROVED, FACTORY MADE METER/PEDESTAL CABINET WITH SERVICE DISCONNECT SEE 1410-5V6. OTHER DESIGNS MUST BE PRE-APPROVED BY A COMPANY REPRESENTATIVE.
- METER CAN MUST BE COMPANY APPROVED RINGLESS TYPE AND INSTALLED LEVEL IN ALL DIRECTIONS.
 ALL COMMERCIAL METER CAN INSTALLATIONS MUST HAVE A MECHANICAL BYPASS RESIDENTIAL, A HORNED BYPASS.
- CUSTOMER DISCONNECT EQUIPMENT WEATHER TIGHT SELF CONTAINED SWITCH BOX MUST BE COVERED WHEN INSPECTED.
 A) SINGLE PRUSE MINIMUM CUPACITY 3D AMPRES. TO MUDILUM CUPACITY OF 400 AMPRES.
 - 8) THREE PHASE SERVICES OVER 200 AMPERES, MUST BE INSTRUMENT METERED.
 - C) ALL 480 VOLT SERVICES, MUST BE INSTRUMENT RATED.
- 4. GROUND WIRE NO. 6 COPPER MINIMUM.
- 5. GROUND ROD # LONG 5/8" GROUND ROD. A BUTT WRAPPED COPPER GROUND WIRE IS ALSO ACCEPTABLE.
- 6. CONTACT LOCAL UTILITY FOR TRENCHING SPECIFICATIONS AND RESPONSIBILITIES.
- A PERMIT FOR PERMANENT SERVICE OR A WIRING AFFIDAVIT APPROVING THE SERVICE FOR CONNECTION MUST BE OBTAINED. REFORE SERVICE CAN BE PROVIDED.
- 8. SERVICE ENTRANCE CUSTOMER WILL PROVIDE:
 - A) COMMERCIAL FROM A PAD MOUNT TRANSFORMER TO CLISTOMERS SERVICE ENTRANCE:
 - * ALL SECONDARY CONDUCTORS
 - * ALL PVC CONDUIT (3" SCHEDULE 40 MINIMUM SZE) REQUIRED.
 - 80 COMMERCIAL FROM OVERHEAD TRANSFORMERS:
 - * CONTACT LOCAL COMPANY REPRESENTATIVE ABOUT OWNERSHIP AND INSTALLATION.
 - C) RESIDENTIAL FROM OVERHEAD OR PADMOUNT TRANSFORMER TO CUSTOMERS SERVICE ENTRANCE:
 - COMPANY WILL PROVIDE ALL LINE SIDE CONDUCTORS, AND POLE CONDUIT -ALL OTHER CONDUIT SHALL BE PROVIDED BY CUSTOMER.
- 9. UNDERGROUND SERVICE LINE MUST BE COVERED OR BACK FILLED INFORE SERVICE MAY BE ENERGIZED.
- 10. SEE 1410-SV1 FOR ANY OTHER REQUIREMENTS.

OU MORNE	MONSON SAIR	ATTEME IN
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(MARK III.	40490N NO.	DATE.
AP	8	6/4/19

SELF CONTAINED UNDERGROUND PERMANENT SERVICE - STEEL POST METERING STANDARDS DRAWING # 1410-SV5





NOTE:

- LEVER OPERATED BYPASS REQUIRED ON ALL COMMERCIAL SOCKETS.
- HORNED BYPASS REQUIRED ON ALL RESIDENTIAL SOCKETS.
- PERMANENTLY AFFIXED IDENTIFICATION TAGS ARE REQUIRED (SEE 1416-SVI)
 UL APPROVED MANUFACTURED METER MODULES INSTALLED BY
- CUSTOMER PER MEC, LOCAL AUTMORITY AND COMPANY RULES.

 * ATTACHED CT COMPARTMENTS OR ANY SWITCHGEAR / CT
- ATTACHED CT COMPARTMENTS OR ANY SWITCHGEAR / CT COMPARTMENTS MUST OBTAIN PRE-APPROVAL FROM THE COMPANY METER DEPARTMENT.

100H. D.E.		polymenton standage
6E 28/	NEL .	GANG METER MODULES AND
WYSOCO OF	Delt.	METER PEDESTALS BUSY MILE COM.

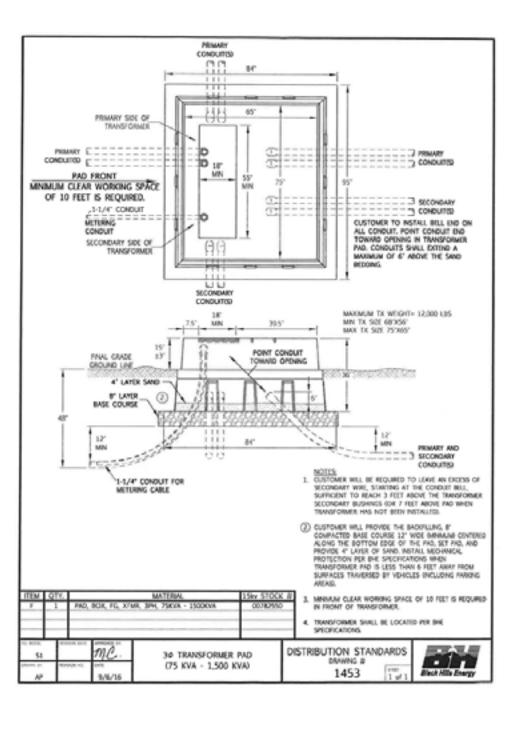


MAX PAST	ACK, MA
(Remail as).	
1410-	SV8

15

CROUND AND NO HIGHER THAN THE INCHES CONTRIBUTE TO THE TOP METER FROM THE GROUND. STANDARD SINGLE METER HEIGHT

IS 46 INCHES /ROW THE CROWNS.



17

GENERAL:

- 1) PAD MOUNT TRANSFORMERS SHALL BE LOCATED IN AN AREA ACCESSIBLE TO LINE TRUCKS FOR EASY INSTALLATION AND REMOVAL.
- 2) PAD MOUNT TRANSFORMERS SHALL BE LOCATED IN AN AREA NOT SUBJECTED TO FLOODING.
- 3) PADS FOR TRANSFORMERS SHALL BE PROTECTED AGAINST LANDSLIDES, DRAINAGE WASH OR DRIFTING SAND, ETC. THE INSTALLATION OF RETAINING WALLS OF SUFFICIENT STRENGTH AND SUITABLE CONSTRUCTION TO PROVIDE ADEQUATE PROTECTION SHALL BE THE RESPONSIBILITY OF THE CUSTOMER.
- 4) PADS FOR TRANSFORMERS SHALL BE INSTALLED AND MAINTAINED LEVEL.
- 5) ANY PROTECTIVE OR DECORATIVE FENCING OR ENCLOSURE TO BE BUILT AROUND A PAD MOUNTED TRANSFORMER MUST BE APPROVED BY CONSTRUCTION PLANNING AND ENGINEERING PRIOR TO INSTALLATION.
- 6) COMBUSTIBLE AND NON-COMBUSTIBLE SURFACES SHALL BE DEFINED IN ACCORDANCE TO ASTM E136.

BASIC HORIZONTAL CLEARANCES: (FIGURE 1)

THE FOLLOWING HORIZONTAL CLEARANCES BETWEEN PAD MOUNTED TRANSFORMERS AND ADJACENT STRUCTURES ARE REQUIRED:

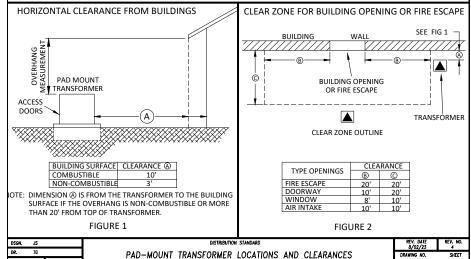
- 1) TEN FEET MINIMUM FROM COMBUSTIBLE SURFACES. CUSTOMER SHALL PROVIDE NON-COMBUSTIBLE SURFACES OR FIRE-RESISTANT BARRIERS, AS SPECIFIED IN FM DATA SHEET 5-4, IF CLEARANCE IS LESS THAN 10'.
- THREE FEET MINIMUM FROM A NON-COMBUSTIBLE SURFACE ON ANY SIDE AND AT LEAST 10' CLEAR WORKING SPACE ON THE FRONT SIDE OF THE TRANSFORMER.
- 3) OVERHANGS (COMBUSTIBLE)

APPROVED BY

- a) IF AN OVERHANG OF COMBUSTIBLE MATERIAL CLEARS THE TOP OF OIL-FILLED PAD MOUNTED TRANSFORMERS BY A MINIMUM OF 20' VERTICALLY, THE REQUIRED DISTANCE SHALL BE MEASURED FROM THE BUILDING WALL.
- b) IF AN OVERHANG OF COMBUSTIBLE MATERIAL CLEARS THE TOP OF OIL-FILLED PAD MOUNTED TRANSFORMERS LESS THAN 20' VERTICALLY, THE REQUIRED CLEARANCE SHALL BE MEASURED FROM THE FARTHEST PROJECTION OF THE OVERHANG.

CLEARANCE FROM AIR INTAKE, WINDOWS, DOOR AND FIRE ESCAPES: (FIGURE 2)

- 1) DOORS: A PAD MOUNT TRANSFORMER SHALL NOT BE PLACED WITHIN A ZONE EXTENDING 20' OUT FROM AND 10' TO EITHER SIDE OF A DOOR.
- 2) WINDOWS: A PAD MOUNT TRANSFORMER SHALL NOT BE PLACED WITHIN A ZONE EXTENDING 10' OUT AND 8' EITHER SIDE OF A WINDOW ON THE 1st FLOOR. THE TRANSFORMER SHALL NOT BE ANY CLOSER THAN 5' FROM ANY PART OF A SECOND STORY WINDOW, NOR DIRECTLY BELOW AN OPERATING WINDOW.
- 3) AIR INTAKES: A PAD MOUNT TRANSFORMER SHALL NOT BE PLACED WITHIN A ZONE EXTENDING 10' OUT FROM AND 10' TO EITHER SIDE OF AN AIR INTAKE. IF THE AIR INTAKE IS ABOVE THE TRANSFORMER, THE TRANSFORMER SHOULD BE 25' FROM THE OPENING.
- 4) FIRE ESCAPES: A PAD MOUNT TRANSFORMER SHALL NOT BE PLACED WITHIN A ZONE EXTENDING 20' OUT FROM AND 20' TO EITHER SIDE OF A FIRE ESCAPE.



BLACK HILLS ENERGY

PT 1

APPLICATION:

IF PAD MOUNTED EQUIPMENT MUST BE LOCATED IN PAYED OR TRAVELED AREAS, OR ADJACENT TO SUCH AREAS WITH THE POSSIBILITY OF DAMAGE FROM YEMCLES, PRITSICAL PROTECTION ACCEPTABLE TO BLACK MILLS POWER AND LIGHT COMPANY MUST BE PROVIDED AND MARKEMED BY THE CUSTOMER. BLACK HILLS POWER AND LIGHT COMPANY WILL DETERMINE WHEN SUCH PROTECTION IS MECESSIAN.

MATERIAL:

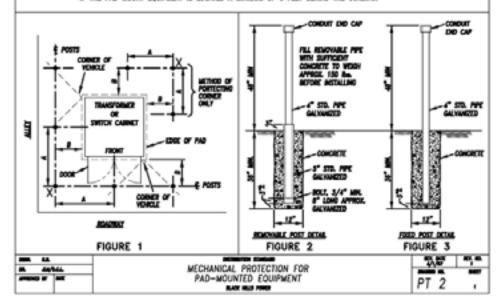
GALYANCED 4" STANDARD PIPE AND END CAP IS THE <u>PREFERRED</u> METHOD OF POST FABRICATION. A SWOOTH CONCRETE DOME IS PERMITTED IN PLACE OF THE END CAP. WHEN A <u>CONCRETE DOME</u> IS USED, THE PIPE END MUST BE FREE OF SHARP EDGES. THE 5" DIAMETER SECTION FOR INSTALLING REMOVABLE POSTS MUST ALSO BE GALYANCED.

LOCATION:

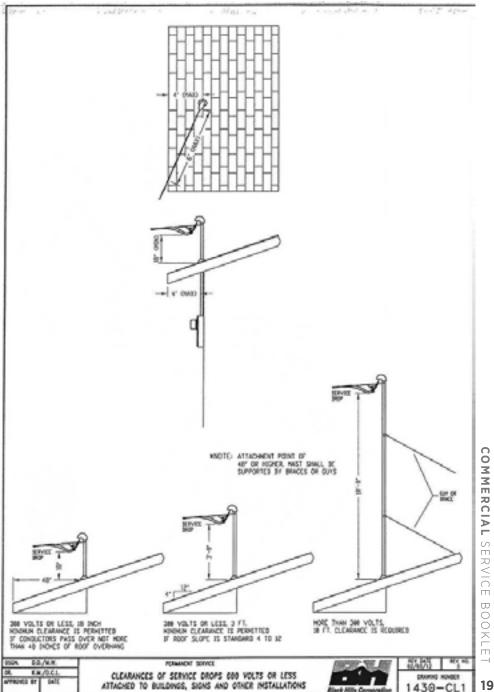
- LOCATE BURBER POST SO THEY DO NOT INTERFERE WITH THE OPENING OF EQUIPMENT DOORS. USE REMOVABLE BARBER POSTS AS FOLLOWS:
 - on door side(s) of equipment where posts could interfere with operation of live line tools.
 - where the use of fixed posts would obstruct access for installation or replacement of edupment.
- 2) DIMENSIONS FOR LOCATION OF POSTS WITH RESPECT TO EQUIPMENT PAD ARE DETERMINED AS FOLLOWS: (SEE FIGURE 1)
 - DETERMINE THE MOST PRACTICABLE DISTANCE "8" (FOR EACH SIDE) THAT POSTS CAN BE LOCATED FROM THE EDGE OF THE PAD.
 - b) DIMPHSION "A" (FOR EACH SIDE) MUST BE LESS THAN OR EQUAL TO 2 TIMES "B" MINUS 6 MOHES BUT SHOULD NOT EXCEED 42 MOHES.
 - e) PLACE THE FIRST POST AT THE INTERSECTION OF PROJECTED CENTERLINES, (POINT X).
 - d) PLACE ONE POST DISTANCE "A" FROM POINT "X" ALONG EACH SIDE TO PROTECT CORNER.
 - CONTINUE TO PLACE POSTS DISTANCE "A" APART ALONG SIDES TO BE PROTECTED.
 - () TO PROTECT ONE SIZE ONLY, PROCEED AS IN "" AND "" ABOVE, PLACE FIRST POST DISTANCE "8" FROM EDGE OF PAD AT EACH POINT WHERE PROTECTION IS REQUIRED THEN PROCEED AS IN "" ABOVE.
 - g) TO PROTECT CORNER ONLY, PROCEED AS IN "g" THROUGH "g" AROVE.

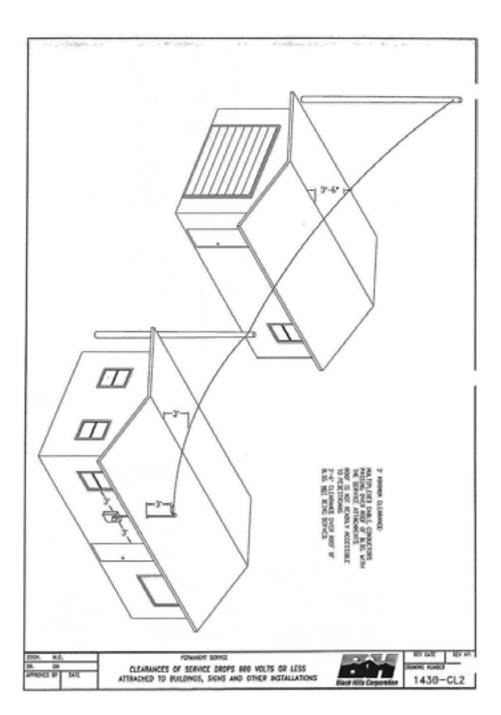
NOTES:

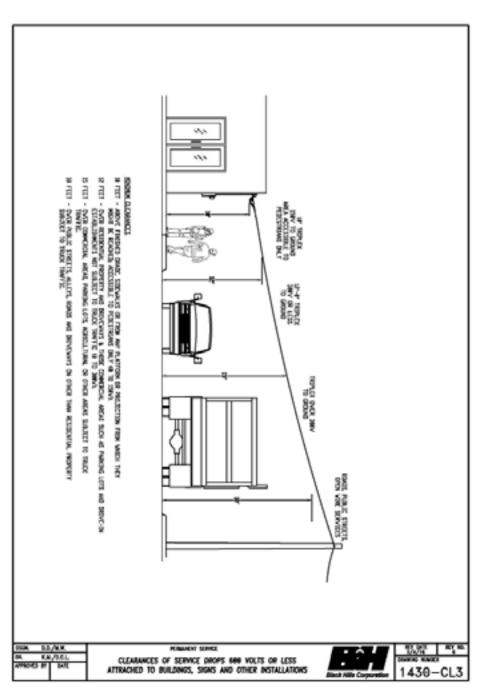
- A BUILDING WILL FURNISH PROTECTION PROVIDED IT IS LOCATED AT A POINT WHERE A POST WOULD MORBINILLY BE REQUIRED.
- SQUARE FACED STREET CURRING PARALLEL TO MOBILAL TRAFFIC FLOW CAN BE CONSIDERED SUITABLE PROTECTION
 F THE PAD-MOUNT EQUIPMENT IS LOCATED A MINIMUM OF 6 FEET BEHIND THE CURRING.











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SZ" HORIZONTAL CLEARANCE SETVICEN GAS METER SET AND EIGE OF METER CLEARANCES REQUIRED IN SPECIFIC CASED WAY SE OSTAINED FROM THE COMPANY 3" RADIAL CLEARANCE FROM GAS RESULATOR

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CLEARANCE REQUIREMENTS FROM GAS METER



REV BATE S/N/18	MEY NO.
(SOURING)	NAME OF TAXABLE PARTY.
1430-	CL4

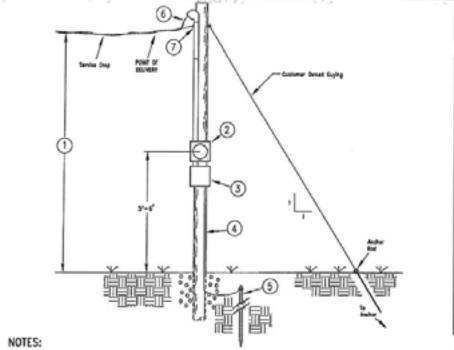
- The customer is urged to make early contact with the local Company for temporary service.
- The customer is required to pay a standard fee for temporary service. When special construction is required there will be additional charges.
- Required affidavits or city inspections must be obtained before service can be provided.
- In addition to installation and removal charges, the customer will be required to pay a service charge for each metered connection.
- 5. Temporary services for construction work must be located where the meter will be protected from mechanical injury and, when practical, a location should be selected that would be usable throughout the construction period. Should relocation of a temporary service become necessary the relocation cost will be the responsibility of the Customer.
- 6. Overhead temporary service drops shall be supported on a Company approved pole or timber and shall be furnished and installed by the Customer. The maximum service drop length from a Company pole to the service depends upon conductor size. Consult with your Company Representative to determine the maximum distance. Temporary service must meet Company standards.
- Customer-owned metering equipment, switching devices, conduits, conductors, luminaires, etc., are not to be mounted on Company poles.
- Customer owned guying, when required, to be adequate for wire size and span lengths. See your Company representative for recommendations.
- All underground temporary meter loops will be located at the transformer or at the secondary service wire at the lot line. Any variation to this standard; SEE YOUR COMPANY REPRESENTATIVE FOR RECOMMENDATIONS.

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APPROVED	*	DATE

REQUIREMENTS FOR TEMPORARY ELECTRIC SERVICE CONSTRUCTION POWER



SAN NO. STATE TO SAN NO



1. a.18' above finished grade where all of the following conditions or met:

Access is limited strictly to pedestrions.
 Multi-plex conductors are used.

3) Conductors are 150v or less to ground.

Pole to be minimum of 14' long, buried 3'-6', guyed as needed.

b. 12" above grade where all of the following conditions are met:
 1) Residential and commercial areas not subject to truck traffic.
 2) Conductors are 360V or less to ground.

Pole to be minimum of 16' long, buried 4', guyed as needed.

- c. 15° above grade where all of the following conditions are met:
 1) Residential and commercial areas not subject to truck traffic.
 2) Conductors are ever 300V to ground.

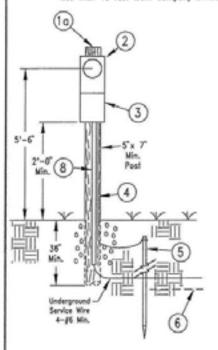
Pole to be minimum of 20' long, buried 4', guyed as needed.

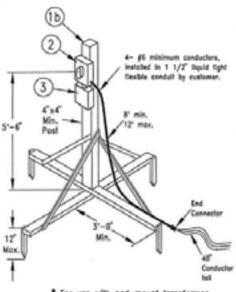
- d. 18' above public streets and all other areas subject to truck traffic. Pale to be a minimum of 25', buried 4'-6', guyad as needed.
- e. A 6" x 6" pressure treated post or a class 5 treated pole may be used.
- Meter can must be Company approved and installed level in all directions, Ringless Type.
- Customer disconnect equipment must be weatherproof and have a minimum capacity 30 amperes. Switch box must be covered when inspected.
- Ground wire #6 copper minimum, #4 where required by NEC
- Ground red 8" long by 5/8" ground rod. A bull wropped copper ground wire is also acceptable. 5.
- Minimum conductor #8 copper or #6 stuminum. Must be 15" in length outside weatherhead.
- Point of attachment for service must be provided. 7.
- Temporary service charges must be pold and a sermit for temporary service or a wiring officially approving the service for connection must be obtained before service can be provided.
- See 1410-SV1 for any other requirements.

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The installation shall be outside the utility easement and shall not be less than 6 feet from the service pedestal or pad-mount transformer and not less than 10 feet from Company awared pole.



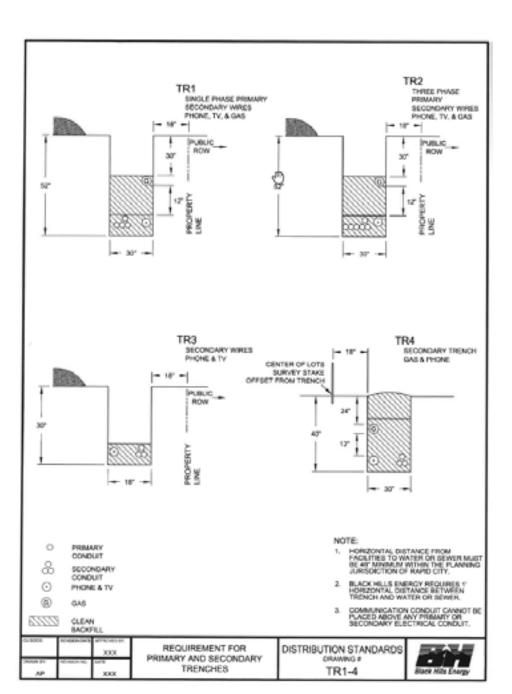


 For use with pad-mount transformer provisioned with access (knock out) to secondary compariment.

NOTES:

- 1a. Pressure Irealed 5' x T wood post, owned by customer, to be buried 36' in ground.
- 1b. Free standing pedestal, adequately braced and anchored. (for use with pod mount transformer)
- 2. Weler can must be Company approved and installed level in all directions. Ringless Type.
- Customer disconnect equipment must be weatherpread and have a minimum capacity 30 cmperes.
 Switch box must be occurred when inspected. Installed par NEC & local utility specifications.
- 4. Cround wire No. 6 copper Minimum, NO. 4 where required by NEC.
- Ground rad == 8" long == 5/8" ground rad. NOTE: ground rad is not required if temp, service is adjacent to pad mount transformer where ground lead is provided from company transformer.
- 6. Trench occording to company specifications.
- Temporary service charges must be gaid and a permit for temporary service or a wiring officially approxing the service for connection must be obtained before service can be provided.
- 8. Post Condult: 2" PVC electrical conduit to a depth 12" in ground.
- 9. Underground service line must be covered or book filled before service may be energized.
- 10. See 1410-SVI for any other requirements.

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Definitions:

- Electric utilities Include power, lighting, telephone, cable t.v., signal circuits, etc.
- Non-electric utilities include water, gas, sewer, storm drains, etc. 2
- Clean dirt, fines, sand, or rock less than 2" are approved bedding material for the conduit system. Deviation from approved bedding can only be authorized by a BLACK HILLS ENERGY translative.

Trench:

- All cable to be installed in conduit system unless approved by a BLACK HILLS ENERGY representative.
- Clearances must be obtained from all other buried utilities before digging.
- э. The conduit system should be located a minimum of two feet of the property line
- 4 The conduit trench must meet the specifications of Standard Drawings TR1 thru TR8.
- 5. Where the surface grade of the trench location is not final, steps must be taken to ensure minimum standard depth subsequent to installation.
 - a. If the grade is to be lowered, the depth of cut must be added to our standard trench depths.
 - if the grade is to be raised, the trench must be standard depth at the time it is dus.
 - Curb and gutter must be installed in subdivisions prior to trenching to insure proper grade.
- 6. Back fill or bedding within 4 inches of conduit systems shall be free of all rocks or other materials that may damage the conduit. Refer to "definitions" above for standard approved material for the "cushion" around the conduit.
- 7. Back fill must be adequately tamped or packed to prevent sinking and meet the specifications of governmental agencies when necessary. Machine compaction must not be used within 6 inches of the conduit to prevent damage.

Conduit:

- All conduit shall be approved HDPE black endless w/3 red stripes or PVC schedule 40 electrical. conduit.
 - 2' conduit may be used for #6 DPLX for street lighting and PAL lighting.
 - b. 3" conduit may be used of or #2, 1/0, & 4/0 single phase primary cable.
 - c. 3' conduit shall be used for 1:0 and 4/0, residential service cable serving a 200A meter con.
 - d. 4" conduit shall be used for 82, 1/0, and 4/0 3 phase primary nables.
 - e. Two single phase services may be placed in one 4 inch conduit.
 - 6" conduit shall be used for 350KCM, 750KCM and 1000KCM primary circuits.
- 2. Minimum residential service cable conduit size will be 3" and standard 24" RADIUS PVC sweeps up to 150 feet, with no more than 270 degree of bends.
- 3. Any residential service cable conduit systems 150 feet in length or longer with 270 of bends or more need to have 24" RADIUS fiberglass sweeps installed, 200A secondary conduit systems should not exceed 280' (total wire length) or 270 degree of bends without prior approval.
- A 1/2", 1200 lb pull tape shall be installed in all conduits.
- 5. Conduit ends must be sealed with Plug with PULL TABS and extend out to the ground 4 to 8 inches.
- Primary conduit sweeps shall be FIBERGLASS with a minimum RADIUS of 35" for 4" or least. 6" sweeps will require a 46" RADIUS.
- Conduit risers shall be installed in accordance with PVC molded riser drawings.
- 8. Schedule 80 pipe under all city, county, and state roads.

Safety:

- Before working on primary wire, be sure there is a visible open at both ends and it is grounded, unless insulated
- All enclosures, transformers and switching modules must be kept locked at all times except when actually working at their location.

Cable Installations:

- Cable will not be placed in a conduit system unless it meets the standard trench specification including the. appropriate bedding
- 2. Cable will be inspected as it is installed to insure no kinks, cuts, abrasions or damage of any kind.
- Be sure sufficient lengths of cable are left at the ends for risers and or terminations.
- 4. Cable paraffeling non-electric utilities or other subsurface structures shall not be installed directly above or below such utilities. See Trench Specifications for minimum specings
- Trench will be inspected prior to cable installation and prior to back filling, by BLACK HILLS **ENERGY** personnel
- 6. Cable ends must be sealed when exposed if termination or splice is to be done at a later time. This will prevent moisture migration into the cable.

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URD CABLE AND TRENCH GUIDELINES DISTRIBUTION STANDARDS DRAWING # 2210

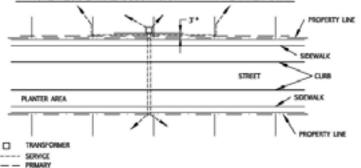
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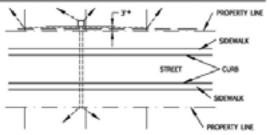
General:

- All termination points of cable in transformers, switching modules and enclosures shall be clearly marked as to color coded phase and point of beginning or termination.
- 2. All connections, splices and terminating devices must be kept clean and dry at all times when assembling, using and storing.
- Primary cable should not be handled when subjected to temperatures lower than 10°F in the 24 hour period preceding installation. If cold weather installation is articipated, the cable rest should be held in a warm storage area at a temperature of at least 60°F for 24 hours prior to installation to insure total warmup.
- The minimum bending radius of primary cables is generally 12 times the outside diameter of the cable. In the case of Kerbe #2, #1/0 and #4/0 cables, 16" can be used as a minimum.
- All primary 12.47% risers shall have "riser-type" lightning arresters installed, Additionally, 186x elbow-type arresters shall be installed at all open points in transformers or switching modules for 245% installations.
- 6. Underground design must meet:
 - a. ANSI-C2, National Diectrical Safety Code.
 - Nutional Electrical Code article 300-5 and article 710-3.

TYPICAL RESIDENTIAL SUBDIVISION - WITH PLANTER STRIP



TYPICAL RESIDENTIAL SUBDIVISION - CURB SIDE SIDEWALK



SURVICE PRIMARY

UNDERGROUND MAXIMUM SERVICE LENGTHS

SERVICE WIRE SZE	100 AMP	200 AMP	400 AMP	
1/0 TRPLEX	300	150"		
4/0 TRPLEX	560	290*	140	

NOTE:

- BHE-S0 standard is a 200 or 400 amp meter socket for underground service, however the 100 amp main switch column can be used for string service wire, if the ultimate load will not exceed the capacity of a 100 amp main.
- 2. Maximum of six 65) services from a pad mounted transformer.
- 3. All cable in conduit. See page 1.

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COMMERCIAL SERVICE BOOKLET

GRADE AGREEMENT

This Agreement made theday of	,between Black
Hills Energy, hereinafter called the Utility, and	, hereinafter called
the Developer, witnesseth:	
The Utility will locate its equipment, and fa	icilities in areas requested and
designated by the Developer on the land being deve	
Map or Plat of	
Map or Plat is hereby attached to and made a part of	of this Agreement. The Developer
shall furnish to the Utility the final elevations and gra	
grades shall be accurate to ±6 inches (final elevation	•
mean, all work necessary prior to acceptance by hor	
shall advise the Utility prior to commencing any exc	
facilities have been constructed, Developer will pay	
lowering, relocating, or otherwise rearranging, repai	ring, or changing such facilities
when in the opinion of the Utility such work is neces	ssary to provide required clearances,
stability and protection of structures or underground	d facilities in accordance with an
applicable building or construction codes, and polic	ies of the Utility. In the event that the
Developer or any independent contractor of the Dev	veloper has not complied with the
terms and conditions of this Agreement, and if dame	age to any existing Utility facilities
occurs, the Developer shall pay all damages and loss	
relocating, or replacing such facilities, including a re	asonable attorney's fee.
The Developer will establish a sufficient nu	
by Utility in order that the Utility facilities may be pl	·
respect to easement, street, or alley lines, and other	utilities.
L	b
In witness whereof the aforesaid parties ha	
representatives set their hands and seals on the day	and year first above written.
Witness or Attest:	
	Black Hills Energy
	By:
	Developer:
	D.
	By:

District W.O.#



BLACK HILLS ENERGY Application and Agreement for Electric Service Extension State of South Dakota

Contract Number Effective Date		
The "Company" Black Hills E	nergy and the "Applicant"	
Applicants:Address	City	Zip

Agree as follows:

(1)	The Company will install and	I furnish electric serve for the Customer at for a new loca	ıted
	in	in accordance with rates and extension rules on file with	the
	South Dakota Public Utilities	Commission.	

(2) The Applicant agrees to accept service under the following rate schedule

or if eliminated, the most economical and applicable remaining rate schedule for a period of not less than forty-eight (48) months from the date of initial service. That Annual Revenue from service to the Applicant as determined under Section 800 Line Extensions of the Company's Tariffs is \$0.00 resulting in a Line Extension Allowance of \$0.00 of Company financed facilities (cost estimate attached).

If it is determined at any time subsequent to execution of this Application that the Applicant has changed the nature of his/her electrical service, the Line Extension Allowance shall be adjusted accordingly, which may result in a charge to the Applicant, if the construction costs exceed the correct Line Extension Allowance.

- (3) If applicable, the Applicant agrees to pay to the Company, prior to construction facilities:

 (a) A refundable Advance Deposit subject to the rules filed by the Company for
 - (a) A refundable Advance Deposit subject to the rules filed by the Company for the cost of extending electric facilities beyond the Line Extension Allowance determined at (2) above. \$
- (4) The Applicant shall, without cost to the Company, make or procure satisfactory conveyance to Company of right-of-way for Company's lines necessary and incidental to the furnishing of service to Customer and for continuing, upgrading or extending said lines over and across the property owned or controlled by Applicant.
- (5) The Applicant shall, without cost to the Company, furnish a cleared right-of-way, and also grants to the Company for maintenance purposes, the right, as the Company may see fit, to cut, trim, or remove from said right-of-way any brush, trees, stumps, or roots.
- (6) For underground line extensions and service laterals the Applicant will provide all trenching to the Company specifications, washed sand, or approved bedding, conduit when required, backfill, or any other restoration work required.

- (7) The Applicant will be entitled to refunds of the Advance Deposit under two (2) separate and distinct calculations:
 - (a) The Applicant may be entitled to a refund of all or part of any Advance Deposit required under paragraph (3) if additional extensions are constructed from the electric facilities requested herein. Only those line extensions which connect directly with the facilities partially financed by the Applicant, without any intervening line extensions and be considered when determining the Applicant's entitlement of a refund. The refund will be equal to the difference between the applicable Line Extension Allowance for the new applicant and the estimated construction cost of the additional electric facilities. The Applicant will receive any applicable refund within thirty (30) days of the Applicant contacting the Company regarding the construction of additional electric facilities. The refunded Advance Deposit shall not bear interest.
 - (b) The Applicant may be entitled to a refund of all or part of any Advance Deposit required under paragraph (3) if the actual revenue from the Applicant's account(s) served during the first four (4) years as a result of this application exceeds the Line Extension Allowance. The refunded Advance Deposit shall bear simple interest at the rate of seven (7) percent annually.

Refunds will be made only to the Applicant if still receiving service at the same location. Eligibility for refunds under (a) above is limited to four (4) years from the effective date of this agreement. Eligibility for refunds under (b) above is determined four (4) years from the effective date of this agreement. In no case shall the total refund to the Applicant exceed the amount of the Advance Deposit, Any Advance Deposit not refunded to the Applicant as set forth above shall be retained and become the property of the Company.

(8) The refundable Advance Deposit or any portion thereof shall not be assignable by the Applicant. Payments of such refundable Advance Deposit shall continue to be made when due to the Applicant notwithstanding a transfer of the place to which electric service was extended.

Applicant	Black Hills Energy Accepted by:
Date	Date

Copies: Applicant Property

> G.O. Contract file District Office

NEW CUSTOMER QUESTION LIST

DATE OF REQUEST	NAME OF REQUESTER	
PROJECT NAME		
NAME OF PROPERTY OWNER(S)		
PHYSICAL LOCATION OF SERVICE		
MAILING ADDRESS OF SERVICE		
STREET CITY	ZIP	
RANGETOWNSHIPSECTIO	NN SECTIONDES	CRIBED PROPERTY
SUBDIVISION NAME	LOT/BLOCK	NLIMBER(S)
MAILING ADDRESS OF OWNER STREET CITY	ZP	.50
PHONE NUMBERS OF OWNER CELL HOME/BUSINESS	WORK	
ADJACENT LAND OWNERS POWER WIL	L CROSS:	(Please provide copies of all Plats and death)
NAME	ADDRESS	PHONE
NAME	ADDRESS	PHONE
NAME	ADDRESS	PHONE
NAME OF ELECTRICIAN	_PHONE NUMBER OF ELECTR	ICIAN
NAME OF CONTRACTOR	PHONE NUMBER OF CONTRA	ACTOR
NAME OF TRENCHER	PHONE NUMBER OF	TRENCHER
DATE ESTIMATE IS NEEDED BY	DATE SERVICE NEEDED BY_	
CHOLONE RESIDENTIAL OR COMMERCIAL	PERMANENT OR TEMPORARY I	HOME GASOR IDIAL HECIRIC
MAIN PANEL SIZE	MAIN PANEL VOLTA	AGE
DATE AND TIME TO MEET AT SITE:		

COMMERCIAL SERVICE BOOKEE

CUSTOMER RESPONSIBILITIES

*Service can not be supplied until these items are completed.
$\hfill\square$ Supply Black Hills Energy with courthouse copy of your plat & deed
☐ Supply Black Hills Energy with courthouse copy of your - Neighbor's plat & deed (if crossing their property to serve you)
☐ Provide 911 address of new service to Black Hills Energy
☐ Obtain signatures on all right-of-ways
☐ Sign "Electric Service Extension Agreement"
☐ Sign "Grade Agreement"
☐ Make any applicable payments
☐ Cut trees
☐ Contact other utilities; i.e. gas, telecom, cable
☐ Contact SD One Call, 811
\square Supply proper trench, sand bedding, and backfill at appropriate time
I have received Black Hills Energy's 'New Construction Handbook' and understand that any Black Hills Energy related construction is to be done according to the specifications contained in the Handbook or otherwise specified by Black Hills Energy personnel.
Signed: Date:

