ELECTRICAL SERVICE UPGRADE
RESIDENTIAL AND COMMERCIAL QUICK INFORMATION REFERENCE

PROVO CITY POWER STANDARDS

ELECTRICAL ENGINEERING

UPDATED: 2015

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTIFICATION.
PRE-INSPECTIONS REQUIRED ON ALL SERVICE UPGRADES.

PERMIT APPLICATION FOR ELECTRICAL SERVICE UPGRADE MUST BE COMPLETED BY OWNER/CONTRACTOR PRIOR TO PRE-INSPECTION OF ELECTRICAL SERVICE UPGRADE. ALL SERVICE UPGRADES REQUIRE A PRE-INSPECTION.

ALL ELECTRICAL SERVICE UPGRADE INSTALLATIONS SHALL MEET PROVO CITY POWER / BUILDING INSPECTION SERVICE SPECIFICATIONS, NATIONAL ELECTRICAL CODE AND NATIONAL ELECTRICAL SAFETY CODE LATEST REVISIONS. ADDRESS SHALL BE POSTED AT BUILDING SITE.


ALL SERVICE UPGRADES NOT CONFORMING TO CURRENT PROVO CITY POWER / BUILDING INSPECTION STANDARDS SHALL BE DENIED. LINE SIDE JUNCTION BOXES AND ELECTRICAL GUTTERS ARE NOT ALLOWED. ALL UNUSED ELECTRICAL EQUIPMENT SHALL BE REMOVED.

ALL UNDERGROUND TRENCHES SHALL BE INSPECTED BY PROVO CITY POWER. CALL 852-6999 FOR INSPECTIONS. PROVO BUILDING INSPECTION TO ISSUE FINAL ELECTRICAL CONNECTION APPROVAL CALL 852-6450 FOR INSPECTION.

NOTE: CHECK WITH BUILDING INSPECTION ABOUT LABELING EACH OUTSIDE METER BASE AS WELL AS EACH INSIDE BREAKER PANEL WITH A PERMANENT LABEL.

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**STANDARDS**

**ELECTRICAL SERVICE UPGRADE INFORMATION**

**(RESIDENTIAL/COMMERCIAL)**

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**PRE-INSPECTIONS REQUIRED ON ALL SERVICE UPGRADES.**

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**ON-SITE PRE-INSPECTION & Scheduling of Disconnection, Re-inspection, & Re-connection**

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**RECONNECTION OF POWER**

**MONDAY - THURSDAY**

**BEFORE 3:00 pm ONLY**

(Subject to Building Inspection Approval)
NOTES (FOR CONDUIT SYSTEM ONLY)

1. CUSTOMER TO FURNISH AND INSTALL CONDUIT FROM TRANSFORMER/PEDESTAL, TO METER LOCATION.
2. CONTACT PROVO CITY POWER FOR TRENCH INSPECTION. (852-6999) DO NOT BACKFILL PRIOR TO INSPECTION.
3. SEE TRENCH DETAIL DRAWING FOR SPECIFICATIONS.
4. TRENCH TO BE MIN. DEPTH OF 24".
5. PROVO CITY POWER TO SUPPLY CONDUCTOR AFTER INSPECTION HAS BEEN COMPLETED BY BUILDING INSPECTION.
6. METER LOCATION TO BE APPROVED BY PROVO BUILDING INSPECTION.

UNDERGROUND SERVICE INSTALLATION
100-200 AMP (1 OR 3 PHASE)
(RESIDENTIAL, SMALL COMMERCIAL)

STANDARDS

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3. SEE TRENCH DETAIL DRAWING FOR SPECIFICATIONS.
4. TRENCH TO BE MIN. DEPTH OF 24".
5. PROVO CITY POWER TO SUPPLY CONDUCTOR AFTER INSPECTION HAS BEEN COMPLETED BY BUILDING INSPECTION.
6. METER LOCATION TO BE APPROVED BY PROVO BUILDING INSPECTION.

PROVO CITY POWER 852-6852
PROVO CITY BUILDING INSPI. 852-6450

ADDRESS TO BE POSTED AT BUILDING

MAIN SERVICE DISCONNECT IS REQUIRED OUTSIDE AT THE METER LOCATION

NOTES (FOR CONDUIT SYSTEM ONLY)

1. CUSTOMER TO FURNISH AND INSTALL CONDUIT FROM TRANSFORMER/PEDESTAL, TO METER LOCATION.
2. CONTACT PROVO CITY POWER FOR TRENCH INSPECTION. (852-6999) DO NOT BACKFILL PRIOR TO INSPECTION.
3. SEE TRENCH DETAIL DRAWING FOR SPECIFICATIONS.
4. TRENCH TO BE MIN. DEPTH OF 24"
5. PROVO CITY POWER TO SUPPLY CONDUCTOR AFTER INSPECTION HAS BEEN COMPLETED BY BUILDING INSPECTION.
6. METER LOCATION TO BE APPROVED BY PROVO BUILDING INSPECTION.

CONDUCTIVE STEEL REINFORCING RODS (REBAR) 1/2 IN. OR LARGER BONDED TOGETHER BY STEEL TIE WIRE THAT HAS A COMBINED LENGTH OF 20 FT CAN SERVE AS THE GROUNDING ELECTRODE. CONTACT BUILDING INSPECTION WITH QUESTIONS.

GRS OR IMC CONDUIT INSTALLED BELOW GRADE SHALL BE SUITABLY COVERED FOR CORROSION PROTECTION

SCH. 40 PVC CONDUIT TO POWER SOURCE
SEE DRAWINGS 26A, 26B & 33 FOR CUSTOMER INFORMATION AND SPECIFICATIONS AT TRANSFORMER/PEDESTAL.

CUSTOMER TO INSTALL MULE TAPE IN ALL CONDUIT.

24" MIN.

RIGID OR IMC COUPLING

3" - 90° GRS OR IMC LONG SWEEP ELBOW

ANCHOR RISER CONDUIT TO FOUNDATION. ANCHOR TO BE ABOVE FINAL GRADE.

3" MIN. GRS OR IMC.

MAIN SERVICE DISCONNECT SECTION A-A

METER BASE & MAIN SERVICE DISCONNECT

4 AWG CONDUCTOR
NOTES (FOR CONDUIT SYSTEM ONLY)

1. CUSTOMER TO FURNISH AND INSTALL CONDUIT FROM POLE AS SHOWN. CUSTOMER TO FURNISH ADDITIONAL 20' UV RATED PVC CONDUIT WITH STANDOFFS AND MOUNTING HARDWARE, TO BE INSTALLED BY PROVO CITY POWER.

2. CONTACT PROVO CITY POWER FOR TRENCH INSPECTION (852-6999) DO NOT BACKFILL PRIOR TO INSPECTION.

3. SEE TRENCH DETAIL DRAWINGS FOR SPECIFICATIONS

4. TRENCH TO BE MINIMUM DEPTH OF 24"

5. PROVO CITY POWER TO SUPPLY CONDUCTOR AFTER ALL INSPECTIONS HAVE BEEN COMPLETED.

ADDRESS TO BE POSTED AT BUILDING

MAIN SERVICE DISCONNECT IS REQUIRED OUTSIDE AT THE METER LOCATION. METER LOCATION TO BE APPROVED BY PROVO CITY POWER

2 STAND OFF BRACKETS FOR EVERY 10' OF CONDUIT

MINIMUM 6" STAND OFF, DO NOT BURY BRACKETS

CUSTOMER TO INSTALL MULE TAPE IN CONDUIT WITH 24" LEAD AT BOTH ENDS. CAP AND/OR TAPE ALL CONDUIT OPENINGS WITH MULE TAPE LEADS SHOWING.

CONDUCTIVE STEEL REINFORCING RODS (REBAR) 1" OR LARGER BONDED TOGETHER BY STEEL TIE WIRE THAT HAS A COMBINED LENGTH OF 20 FT CAN SERVE AS THE GROUNDING ELECTRODE.

CONTACT BUILDING INSPECTION WITH QUESTIONS.
STANDARDS

UNDERGROUND RESIDENTIAL RECESSED METER SERVICE
(AND REQUIRED RESIDENTIAL WORKING CLEARANCES)

AT LEAST 2’ OF CLEAR SPACE IS REQUIRED ON EACH SIDE OF THE METER SOCKET WITH 3’ OF CLEAR AREA REQUIRED IN FRONT OF THE METER. THIS CLEAR SPACE SHALL EXTEND FROM THE FINAL GRADE UP TO THE REQUIRED 6’ HEAD CLEARANCE. OBSTRUCTIONS THAT CAN HINDER MAINTENANCE OR READING OF METERS SUCH AS WOOD PILES, STAIRWAYS, WINDOW WELLS OR SHRUBS ARE PROHIBITED WITHIN THIS CLEAR AREA.

NOTE: THESE WORKING CLEARANCES APPLY TO BOTH OVERHEAD AND UNDERGROUND SERVICES.

CONTACT PROVO CITY POWER METERING DEPT FOR ANY QUESTIONS AT 852-6855
RECOMMENDED MINIMUM 16' (SEE NOTES 1 OR 2 FOR LIMITS ON DISTANCE)

NOT LESS THAN 12' TO FINAL GRADE (SEE NOTE 1)

(COMMERCIAL ATTACHMENT HEIGHTS TO BE SPECIFIED BY PROVO CITY.)

5' TO
FINAL GRADE
24"O.C.
MIN.

MIN. WITH GUY
3' MAX. WITHOUT GUY

WEATHER HEAD
POINT OF ATTACHMENT TO WITHSTAND
400 LBS. TENSION- GUY WIRE MAY
BE NECESSARY

1/4" COMMON GALVANIZED STEEL STRAND
OR EQUAL.

SERVICE MAST & WIRE SUPPORT
ALLOW 18" TAILS FOR
CONNECTION TO DROPS

SERVICE DROP BY-
PROVO CITY POWER
18" MIN. TO D RIP LOOP OR
LOWEST POINT (SEE NOTE 2)

ROOF FLASHING

24"O.C.
MIN.

6' MAX. WITH GUY
3' MAX. WITHOUT GUY

6' MAXIMUM OVERHANG MEASURED
HORIZONTALLY ACROSS ANY PORTION
OF THE ROOF (4' HORIZONTALLY FROM
NEAREST EDGE OF ROOF)

ANCHOR STRAP NO.1. ANCHOR GRC TO BUILDING
FRAME AT 24" CENTERS MINIMUM (USING MINIMUM
1/4"x 3" LONG LAG SCREWS OR 1/4" BOLTS)

CONDUIT COUPLING SHALL NOT BE INSTALLED
ABOVE ROOF LINE

2" RIGID STEEL OR IMC CONDUIT

4 AWG CONDUCTOR

CONDUCTIVE STEEL REINFORCING RODS (REBAR) \frac{1}{4} IN. OR LARGER BONDED TOGETHER BY STEEL TIE
WIRE THAT HAS A COMBINED LENGTH OF 20 FT CAN
SERVE AS THE GROUNDING ELECTRODE. CONTACT
BUILDING INSPECTION WITH QUESTIONS.

NOTES:
1. IF ACCESSIBLE TO TRUCK TRAFFIC, TO OTHER VEHICLES OVER 8' IN HEIGHT, OR TO RIDERS ON
HORSEBACK, MINIMUM ATTACHMENT HEIGHT IS 16'; REFER TO NESC TABLE 232-1 & DRAWING 16.
2. IF THE SERVICE IS CROSSING THE ROOF FOR MORE THAN 6' HORIZONTALLY IN ANY DIRECTION,
OR MORE THAN 4' HORIZONTALLY FROM THE NEAREST EDGE OF THE ROOF, REFER TO NESC
234C3 & DRAWING 17 FOR THE APPROPRIATE CLEARANCE:
4. SERVICE MAST MUST BE MOUNTED ON SIDE NEAREST POLE, PROVO CITY BUILDING INSPECTION TO
APPROVE LOCATION.
5. PROVO CITY BUILDING INSPECTION TO INSPECT PRIOR TO CONNECTION. CALL 852-6450
6. USE OXIDE INHIBITOR WHEN TERMINATING ALUMINUM CONDUCTORS.
STANDARDS

TYPICAL RESIDENTIAL UNDER EAVES SERVICE INSTALLATION

(THIS IS A NON-STANDARD INSTALLATION AND REQUIRES APPROVAL BY PROVO CITY POWER) - (FOR MULTI LEVEL BUILDINGS ONLY) - (200 AMP MAX. FOR OVERHEAD SERVICE)

NOTES:

1. IF ACCESSIBLE TO TRUCK TRAFFIC OR TO OTHER VEHICLES OVER 8' IN HEIGHT, OR TO RIDERS ON HORSEBACK, MINIMUM CLEARANCE (& ATTACHMENT HEIGHT) IS 16'; REFER TO NESC TABLE 232-1 & DRAWING 16. CLEARANCES SHOWN AS 12' MINIMUM ARE SUITABLE FOR AREAS SUBJECT TO PEDESTRIANS AND RESTRICTED TRAFFIC ONLY.

2. 2"x4" BLOCKS BETWEEN STUDS IS SUGGESTED. ANCHOR TO BUILDING FRAME AT 24" CENTERS.

3. SERVICE MAST MUST BE MOUNTED ON SIDE NEAREST POLE, PROVO CITY BUILDING INSPECTION TO APPROVE LOCATION.

4. PROVO CITY BUILDING INSPECTION TO INSPECT PRIOR TO CONNECTION. CALL 852-6450

5. USE OXIDE INHIBITOR WHEN TERMINATING ALUMINUM CONDUCTORS.

CONDUCTIVE STEEL REINFORCING RODS (REBAR) ½ IN. OR LARGER BONDED TOGETHER BY STEEL TIE WIRE THAT HAS A COMBINED LENGTH OF 20 FT CAN SERVE AS THE GROUNDING ELECTRODE. CONTACT BUILDING INSPECTION WITH QUESTIONS.
NOTES:
1. A FIFTH TERMINAL (STINGER) IS REQUIRED FOR 120/208 VOLT SERVICE.
2. WIRE SIZE RANGE:
   2.1 100 AMP SOCKET: LUGS SUITABLE FOR #6 - #2/0 STRANDED CU/AL CONDUCTORS.
   2.2 200 AMP SOCKET: LUGS SUITABLE FOR #2 - 350 KCMI CU/AL CONDUCTORS.
3. APPROXIMATE DIMENSIONS:
   3.1 100 AMP SOCKET: 3-5/16"(D) X 8"(W) X 11-1/2"(H).
   3.2 200 AMP SOCKET: 4-3/8"(D) X 11"(W) X 15-1/2"(H).
4. CONTACT PROVO CITY POWER AT 852-6952 FOR SERVICE VOLTAGE INFORMATION.
NOTES:
1. WIRE SIZE RANGE: LUGS SUITABLE FOR #2 - 350 kcmil Cu/Al CONDUCTORS.
2. APPROXIMATE DIMENSIONS: 5"(D) x 13"(W) x 19"(H).
3. METER SOCKET SHALL HAVE BYPASS. (LINK OR MANUAL)
4. KNOCKOUTS: THREE ON BOTTOM AND ONE EACH ON BOTH SIDES AND BACK; KNOCKOUTS ARE CONCENTRIC TYPE WITH A MAXIMUM DIAMETER OF 3".
5. FOR OVERHEAD SERVICES, METER SOCKETS ARE FURNISHED WITH A HUB SIZED AS NEEDED; AVAILABLE HUB SIZES ARE 1-¼", 1-½", 2" AND 2-½".

STANDARDS

METER SOCKET WIRING DIAGRAM
THREE PHASE, 4 WIRE WYE DELTA
120/240, 120/208, 240/480, 277/480 VOLT
(200 AMP, 7 TERMINAL SOCKET WITH LINK BYPASS, LEVER BYPASS & PRESSURE RELEASE)
STANDARDS

CLEARANCES OF 600 VOLT SERVICE DROPS TO BUILDINGS, SIGNS, AND OTHER INSTALLATIONS TO WHICH ATTACHED (NESC RULE 234C3 & 235C1)

3#: IF ROOF IS NOT READILY ACCESSIBLE & MULTIPLEX CABLE (OR OPEN WIRE UP TO 300 VOLTS BETWEEN CONDUCTORS)

10#: IF ROOF IS READILY ACCESSIBLE TO PEDESTRIANS OR IF SERVICE CABLE IS 480 VOLT OPEN WIRE

SEE NOTE 1

OVER BUILDING, SIGN, OR OTHER INSTALLATION TO WHICH ATTACHED

MAXIMUM 6# HORIZONTAL WIRE IN ANY DIRECTION & MAXIMUM 4# HORIZONTAL TO NEAREST EDGE OF ROOF

SEE NOTE 2

18#: FOR NOT MORE THAN 6# HORIZONTAL WIRE/ 4# HORIZONTAL TO NEAREST EDGE OF ROOF OVERHANG & MULTIPLEX (OR OPEN WIRE EXCEPT 480 VOLTS)

3#: IF ROOF IS NOT READILY ACCESSIBLE & MULTIPLEX CABLE (OR OPEN WIRE UP TO 300 VOLTS BETWEEN CONDUCTORS)

8#: IF ROOF IS READILY ACCESSIBLE, OR FOR OPEN WIRE 480 VOLTS (WYE OR DELTA)

OVER PORTION OF ROOF (OVERHANG)

WINDOWS, DOORS, FIRE ESCAPES, ETC. (SEE NOTE 3)

8#: (SEE NOTE 1)

BALCONY (OR DECK) READILY ACCESSIBLE TO PEDESTRIANS

TO WINDOWS, DOORS, FIRE ESCAPES, ETC.

MIN 24#: IF DROPS FROM DIFFERENT POLES (NESC TABLE 233-1)

MIN 12#: IF DROPS FROM SAME POLE

ELECTRIC SERVICE DROP

40#MIN

COMMUNICATION SERVICE DROP

BETWEEN ELECTRIC POWER & COMMUNICATION SERVICE DROPS

SEE NOTE 4
STANDARDS

CLEARANCES OF 600 VOLT SERVICE DROPS TO BUILDINGS, SIGNS, AND OTHER INSTALLATIONS TO WHICH ATTACHED (NESC RULE 234C3 & 235C1)

SERVICE DROP CONDUCTORS SHALL NOT BE READILY ACCESSIBLE.

NOTES:

1. IF A ROOF OR BALCONY IS NOT READILY ACCESSIBLE TO PEDESTRIANS AND THE SERVICE CABLE IS MULTIPLEX (UP TO 600 VOLTS) OR IS INSULATED OPEN WIRE (UP TO 300 VOLTS BETWEEN CONDUCTORS, I.E. NOT INCLUDING 480 VOLT WYE OR DELTA), THE CLEARANCE MAY BE A MINIMUM OF 3 FEET PER NESC 234C3d(1) EXCEPTION 1. (NEC 230-24 ALSO REQUIRES 3’ MINIMUM FOR UP TO 300 VOLTS BETWEEN CONDUCTORS AND A ROOF SLOPE OF AT LEAST 4” IN 12” TO BE CONSIDERED NOT ACCESSIBLE TO PEDESTRIANS.) NESC DEFINES A ROOF OR BALCONY READILY ACCESSIBLE TO PEDESTRIANS IF IT CAN BE CASUALLY ACCESSED THROUGH A DOORWAY, WINDOW, RAMP, STAIRWAY, OR PERMANENT LADDER (WITH ITS BOTTOM RUNG LESS THAN 8’ FROM GROUND OR FROM PERMANENT ACCESSIBLE SURFACE) BY A PERSON, ON FOOT, WHO NEITHER EXERTS EXTRAORDINARY PHYSICAL EFFORT NOR EMPLOYS SPECIAL TOOLS OR DEVICES TO GAIN ENTRY. NESC SHALL GOVERN FROM THE UTILITY’S POLE TO THE DRIP LOOP AT THE CUSTOMER’S SERVICE ENTRANCE; NEC SHALL GOVERN FROM THAT DRIP LOOP INTO THE BUILDING.

2. WHERE NOT MORE THAN 6 FEET (MEASURED HORIZONTALLY) OF A SERVICE DROP PASSES OVER A ROOF TO TERMINATE AT A (THROUGH-THE-ROOF) SERVICE RACEWAY OR APPROVED SUPPORT LOCATED NOT MORE THAN 4’ MEASURED HORIZONTALLY FROM THE NEAREST EDGE OF ROOF AND THE CABLE IS EITHER MULTIPLEX (UP TO 600 VOLTS), OR IS INSULATED OPEN WIRE (UP TO 300 VOLTS BETWEEN CONDUCTORS, I.E. NOT INCLUDING 480 VOLT WYE OR DELTA), THE CLEARANCE ABOVE THE ROOF MAY BE A MINIMUM OF 18”. SEE THE PLAN VIEW SKETCH BELOW. (NEC 230-24 ALLOWS THE SAME 18” CLEARANCE FOR SERVICES UP TO 300 VOLTS BETWEEN CONDUCTORS AND SIMILAR OVERHANG.)

3. A CLEARANCE OF 3 FEET IN ANY DIRECTION FROM WINDOWS, DOORS, FIRE ESCAPES, OR SIMILAR LOCATIONS IS REQUIRED, EXCEPT IT DOES NOT APPLY TO:
   A. MULTIPLEX CABLE ABOVE THE TOP OF A WINDOW, OR
   B. WINDOWS THAT DO NOT OPEN.
   (NEC 230-9 REQUIRES THE SAME 3’ OF CLEARANCE EXCEPT ABOVE THE TOP LEVEL OF A WINDOW; SERVICE CONDUCTORS ARE NOT ALLOWED BELOW WINDOWS OR OPENINGS THROUGH WHICH MATERIALS MAY BE MOVED, E.G. IN FARM OR COMMERCIAL BUILDINGS.)

4. PER NESC RULE 235C1 (EXCEPTION 3) A SPACE OF NOT LESS THAN 12” IS REQUIRED BETWEEN ELECTRIC SERVICE DROPS OF 0-600 VOLTS RUNNING ABOVE AND PARALLEL TO COMMUNICATION SERVICE DROPS. THIS APPLIES TO ANY POINT IN THE SPAN AS WELL AS AT THE BUILDING ATTACHMENT. OTHER CLEARANCES APPLY AT THE POLE. IF THESE SERVICES ARE RUN FROM DIFFERENT SUPPORT STRUCTURES, NESC TABLE 233-1 REQUIRES 24” VERTICAL CLEARANCE BETWEEN CONDUCTORS. COMMUNICATION CABLES SHOULD BE INSTALLED BELOW POWER SUPPLY CONDUCTORS WHenever POSSIBLE.

CAUTION:
ALL NESC VERTICAL CLEARANCES APPLY TO THE CONDUCTORS AT MAXIMUM FINAL SAG. ALLOW FOR 1.0 FOOT OF ADDITIONAL SAG FOR INCREASE FROM INITIAL SAG TO MAXIMUM FINAL CONDITIONS.

[Diagram showing service mast (raceway) and edge of roof with clearance requirements]
NOTE:
1. PROVO CITY POWER TO APPROVE BACKFILL MATERIAL
2. PROVO CITY POWER SHALL INSPECT TRENCH/CONDUIT PRIOR TO BACKFILL.
3. SECONDARY DEPTH 36" MINIMUM.
4. SERVICE DEPTH 24" MINIMUM.
STANDARDS

REQUIRED TRENCH AND FINAL INSPECTIONS

FOR PROJECTS:

FOR MAIN LINE TRENCH INSPECTIONS:
CALL AFTER CONDUIT HAS BEEN PLACED IN TRENCH AND 12" OF SAND HAS BEEN PLACED ON CONDUIT. TRENCH MUST BE LEFT OPEN FOR INSPECTION OR YOU WILL BE ASKED TO RE-OPEN TRENCH FOR INSPECTION AND FOR INSPECTOR TO GPS CONDUIT LOCATION.
CALL THE PROJECT ENGINEER YOU HAVE BEEN WORKING WITH.
PROVO POWER ENGINEERING: 801 852-6852

SERVICE TRENCH INSPECTIONS:
CALL BEFORE DOING ANY BACKFILL ON TRENCH. A 1" POLY PIPE NEEDS TO BE INSTALLED BY PROVO CITY POWER AT THE TIME OF INSPECTION.
PROVO CITY POWER DISPATCH: 801 852-6999

TO HAVE CONDUIT ELBOWS PLACED INTO EXISTING POWER EQUIPMENT:
CALL AFTER TRENCH HAS BEEN OPENED TO BASE OF POWER EQUIPMENT, CONDUIT HAS BEEN INSTALLED AND LEFT 2' SHORT OF POWER EQUIPMENT AND FIBERGLASS ELBOW HAS BEEN LEFT ON SITE FOR OUR CREW TO INSTALL. NEVER PLACE CONDUIT INTO LIVE EQUIPMENT.
PROVO CITY POWER DISPATCH: 801 852-6999

FOR FINAL PROJECT INSPECTION:
CALL WHEN BOXES ARE INSTALLED AT PROPER HEIGHT AND ARE LEVEL, GROUND RODS HAVE BEEN INSTALLED, MULE TAPE HAS BEEN PLACED IN CONDUIT, AND CONDUIT IS AT PROPER HEIGHT. CALL THE PROJECT ENGINEER YOU HAVE BEEN WORKING WITH.
PROVO POWER ENGINEERING: 801 852-6852
EXISTING ENERGIZED SECONDARY PEDESTAL FOR INSTALLATION OF URD CONDUCTORS, COIL 6 FEET OF EXTRA CONDUCTORS OUTSIDE OF ENERGIZED EQUIPMENT

EXISTING ENERGIZED PRIMARY SECTIONALIZER/SWITCH

OPEN TRENCH (TYPICAL)

CONDUIT (TYPICAL)

CONNECTING TO A SECTIONALIZER

FOR INSTALLATION OF URD CONDUCTORS, COIL 6 FEET OF EXTRA CONDUCTORS OUTSIDE OF ENERGIZED EQUIPMENT

CONDUIT (TYPICAL)

CONNECTING TO A PEDESTAL

EXISTING ENERGIZED PEDESTAL

CONNECTING TO A TRANSFORMER

EXISTING ENERGIZED TRANSFORMER

PAD

NOTES:
1. FOR SAFETY REASONS DO NOT INSTALL CONDUITS/CONDUCTORS INSIDE ENERGIZED EQUIPMENT.
2. STOP INSTALLATION OF CONDUITS/CONDUCTORS A MAXIMUM OF 2 FEET FROM ENERGIZED EQUIPMENT.
3. EXTEND TRENCH TO THE EDGE OF THE EQUIPMENT.
4. CONTRACTOR TO SUPPLY SWEEP & ADDITIONAL CONDUIT TO COMPLETE INSTALLATION BY PROVO POWER.
5. CONTACT PROVO POWER AND NOTIFY CREWS FOR INSTALLATION OF CONDUIT/CONDUCTORS INTO ENERGIZED EQUIPMENT.
RESIDENTIAL SINGLE-PHASE TRANSFORMER

PADMOUNTED EQUIPMENT

COMMERCIAL 3-PHASE TRANSFORMER

PADMOUNTED EQUIPMENT

NOTE:
IN THE EVENT OF AN EQUIPMENT FAILURE OR POWER OUTAGE, IT IS NECESSARY FOR UTILITY CREWS TO HAVE ADEQUATE ACCESS TO PADMOUNTED EQUIPMENT AND TRANSFORMERS. ACCESS TO THE FRONT SHALL BE TEN FEET, ACCESS TO THE REAR AND SIDES SHALL BE THREE FEET. NO TREES, SHRUBS, FENCES, LARGE LANDSCAPE ROCKS, OR OTHER OBSTRUCTIONS SHALL BE PERMITTED IN ACCESS AREA.

NOTE FOR NEW SERVICES

1. PADMOUNTED EQUIPMENT, TRANSFORMERS AND SECONDARY PEDESTALS ARE LOCKED FOR PROTECTION AGAINST ELECTRICAL SHOCK.

2. WHEN INSTALLATION OF A NEW SERVICE REQUIRES ACCESS TO A TRANSFORMER OR PEDESTAL, OWNER/CONTRACTOR SHOULD CALL PROVO CITY POWER AT 852-6999.

3. ALL NEW CONDUIT RUNS SHALL BE INSTALLED BY CONTRACTOR INTO TRANSFORMER PEDESTAL WITH PROVO CITY POWER SUPERVISION.

4. BLUE STAKE LAWS PROHIBIT ANY DIGGING WITH EQUIPMENT WITHIN THE 2' SAFETY ZONE. PLEASE HAND DIG AROUND ANY ELECTRICAL EQUIPMENT.
NOTE:
IN THE EVENT OF AN EQUIPMENT FAILURE OR POWER OUTAGE, IT IS NECESSARY FOR PROVO CITY CREWS TO HAVE ADEQUATE ACCESS TO SECONDARY PEDESTAL LIDS. ACCESS TO THE FRONT AND SIDES AND REAR SHALL BE 2 FEET. NO TREES, SHRUBS, FENCES, LARGE LANDSCAPE ROCKS, OR OTHER OBSTRUCTIONS SHALL BE PERMITTED IN ACCESS AREA.

NOTE FOR NEW SERVICES
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