

Technical drawing of a vertical utility pole showing the installation of a power line and associated components. The drawing includes labels for various parts and dimensions:

- K.G.&E. POWER LINE(S)**: Indicated at the top of the pole.
- 200 mm MIN.**: Dimension for the distance between the power line and the next component.
- POWER CONNECTION TO BE MADE BY K.G.&E. (CONTRACTOR TO INSURE SUFFICIENT WIRE IS LEFT AT WEATHER HEAD TO RUN UP TO AND MAKE CONNECTION AT SECONDARY.)**: Label for the power connection point.
- MOLDING (INSTALLED BY K.G.&E.)**: Label for the molding installed on the pole.
- 120 VAC SERVICE ENTRANCE w/COVER (WEATHERHEAD)**: Label for the service entrance.
- BELL, CABLE VISION, ETC. (COMMUNICATIONS CABLE)**: Label for the communications cable.
- 600 mm MIN. (WHERE APPLICABLE)**: Dimension for the distance between the service entrance and the communications cable.
- 19 mm EMT**: Label for the EMT (Electrical Metallic Tube) running down the pole.
- METER BOX (TO BE OBTAINED FROM K.G.&E. INSTALLED BY CONTRACTOR.)**: Label for the meter box.
- METER (INSTALLED BY K.G.&E.)**: Label for the meter.
- WEATHERPROOF POWER DISCONNECT 19 mm HUB-70 AMP MAIN LUG w/BREAKER ACCORDING TO N.E.C.**: Label for the weatherproof power disconnect.
- CONDUIT (25 mm RIGID STEEL GALV. WITH 1/C TYPE #8 GREEN THINN STRANDED WIRE)**: Label for the conduit.
- CONDUIT CLAMPS (MAX. SPACING=1.5 m TYP 2 HOLE CLAMP(S))**: Label for the conduit clamps.
- GROUND CLAMP/WIRE w/STAPLE FASTENERS (WIRE: #8 BARE-SOLID)**: Label for the ground clamp/wire.
- GROUND ROD 16 mm X 2.4 m**: Label for the ground rod.
- GROUND LEVEL**: Indicated by a horizontal line.
- 600 mm to 750 mm MIN. - MAX. DEPTH**: Dimension for the depth of the ground rod.
- TO CONTROLLER**: Label for the direction of the ground rod.

1. MAX. SAG = 5% OF SPAN.
2. STANDARD BACKRAKE = 1.5'
3. HEIGHT OF STRAIN WIRE HOOK-UP TO BE DETERMINED BY FIELD ENGINEER.
TRAFFIC SIGNAL CABLE TO BE SECURED TO STRAIN (SPAN) WIRE WEATHERABLE NYLON CABLE HANGERS (300 mm CTR.) DETAIL 'B'
4. TETHER CLAMP TO BE DESIGNED TO RELEASE UNDER 'HIGH WIND LOAD' TO PERMIT SIGNAL 'FREE SWING'.

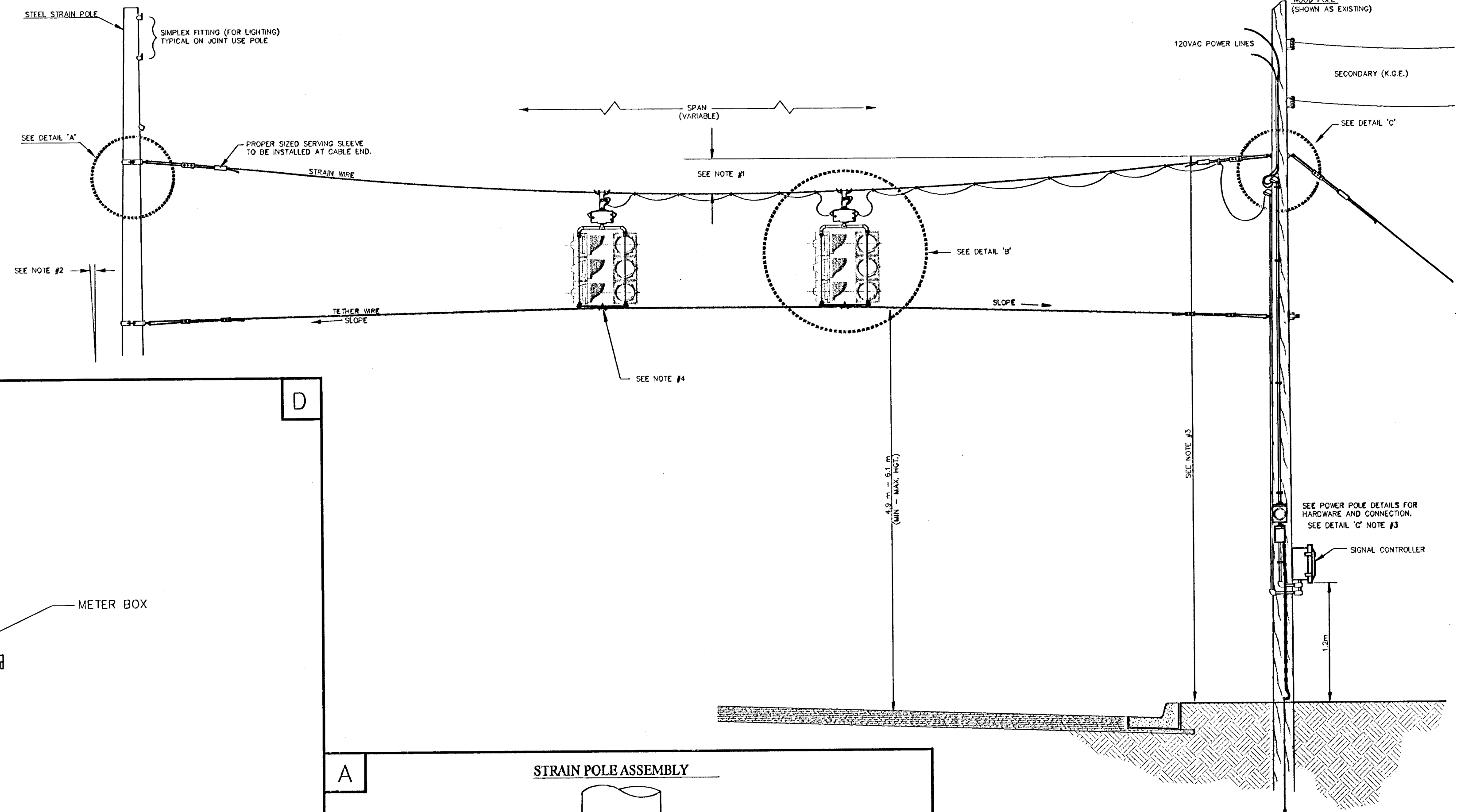


Diagram illustrating the internal wiring and components of a power disconnect assembly, showing the connection between the meter box and the power disconnect.

Labels and Components:

- METER BOX
- LOCKOUT
- ALL THREAD NUT
- POWER DISCONNECT
- BREAKER (AMPERE RATING AS REQUIRED BY N.E.C.)
- #8 AWG (GREEN) GRND. WIRE TO CONTROLLER GRND.
- A SINGLE CONDUCTOR STRANDED #8 GREEN WIRE SHALL CARRY THE EQUIP. GROUND FROM THE GRND. LUG OF ALL SIGNAL BOXES TO CONTROLLER CABINET AND THE POWER DISCONNECT BOX.
- GROUND LUG
- GROUND WIRE (#8 BARE-SOLID)
- CONDUIT (FROM/TO CONTROLLER) 25 mm RIGID STEEL GALV. CONDUIT WITH 1/2" TIE, #8 GREEN THIN STRANDED WIRE.
- LINE ARRESTER 40 VAC

Wiring Details:

- POWER - #6 AWG BLACK
- NEUTRAL - #6 AWG WHITE
- GROUND - #8 AWG GREEN

Notes:

- * TO BE MARKED WITH WHITE TAPE

NOTE: SEE STEEL POLE
ASSY DETAIL SHEET FOR
STRAIN POLE BASE DETAILS

STRAIN AND TETHER WIRE:
GALV. GUY STRAND (T-WIRE)
8 mm (3/32) (FRESH) WEIGHT
PER 1000 @ 205

CABLE EXT
MULTI-CONDUCTOR SIGNAL CABLE

THUMB EYE NUT (GALV)
ASSEMBLY

STRAIN CLAMP

STRAIN WIRE (8 mm)

3-BOLT GUY CLAMP

BLACK WEATHERABLE NYLON TIE WRAP CABLE TIES (CLIP EXCESS STRAP)

8 mm STRAIN WIRE

CABLE SADDLE CLAMP

MULTI-CONDUCTOR SIGNAL CABLE

WIRE ENTRANCE/BALANCE ADJUST

CIRCUIT GUIDE-DISCONNECT HANGER

TOP BRACKET (FOR SIGNAL ASS'Y)

BOTTOM BRACKET

SIGNAL FASTENER ASS'Y

DRILL 12 mm HOLE EXTRA LENGTH HOLE

The diagram illustrates a steel strain pole application. A central vertical pole is shown with various hardware components attached. At the top, a back plate is secured with a jaw nut, a galv. thimble eye nut, a guy wire (8 mm), and a 3-bolt guy clamp. A strain wire is also shown. The pole is supported by a front plate, which is secured with a galv. thimble eye bolt and an expanding anchor. The pole is also stabilized by a wood pole (wide application). The pole is used to support power lines (120 VAC), a weatherhead (1/4" for power lines), a 2-hole (metal) clamp, a weatherhead (lat), a multi-conductor signal cable, and a 2-hole (metal) clamp. A note indicates that the hardware shown is transferrable to steel pole in whole or part where steel strain pole is used. The field engineer is responsible for determining the best type of hardware to use.

BACK PLATE
JAW NUT
GALV. THIMBLE EYE NUT
GUY WIRE (8 mm)
3-BOLT GUY CLAMP

SEE NOTE 1

GALV. THIMBLE EYE BOLT
FRONT PLATE
STRAIN WIRE
POWER LINES (120 VAC)
WEATHERHEAD (1/4" FOR POWER LINES)
2-HOLE (METAL) CLAMP
WEATHERHEAD (LAT)
MULTI-CONDUCTOR SIGNAL CABLE
2-HOLE (METAL) CLAMP

NOTE:

1. GALV. THIMBLE EYE ANCHOR BOLT AND EXPANDING ANCHOR (NOT SHOWN) TO STABILIZE WOOD POLE (WIDE APPLICATIONS)
2. ANY COMBINATION OF ROUND/THIMBLE EYE BOLTS AND NUTS MAY BE UTILIZED AS APPLICATION MAY VARY. FIELD ENGINEER TO DETERMINE TYPE OF HARDWARE USED
3. HARDWARE SHOWN IS TRANSFERABLE TO STEEL POLE IN WHOLE OR PART WHERE STEEL STRAIN POLE IS USED. (POWER SIGNAL CABLES, WIRE, ETC.) FIELD ENGINEER TO MAKE DETERMINATION. STEEL STRAIN POLE APPLICATIONS MAY VARY AS TO MOUNTING ON POLE USE OF CLAMPS, DANGER BRACKETS, ETC. ARE STD. - FIELD ENGINEER TO DETERMINE BEST TYPE APPLICATIONS.

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