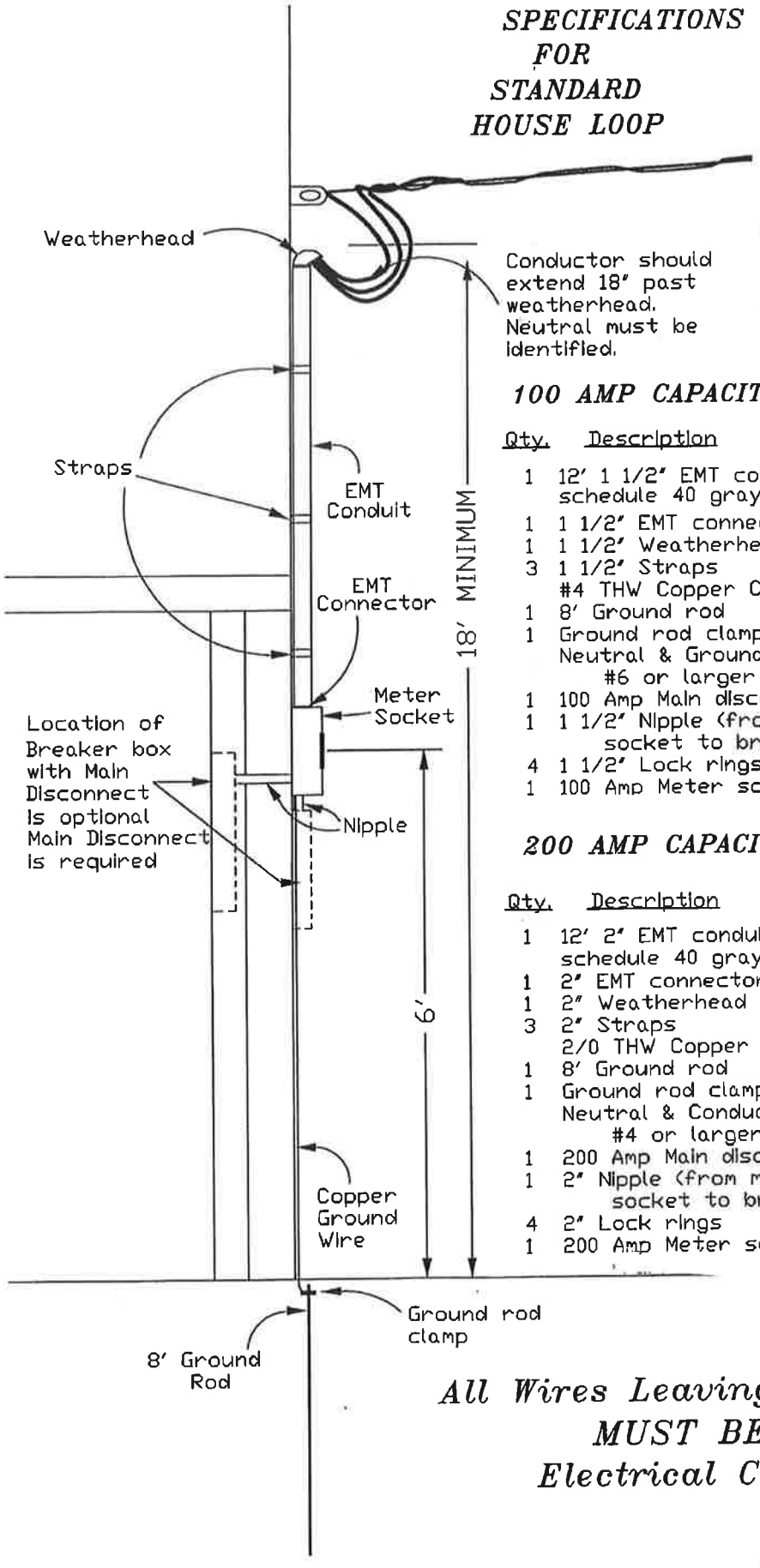
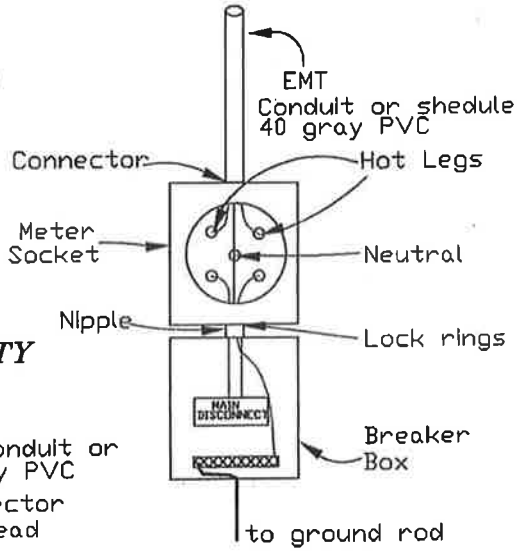
SPECIFICATIONS FOR STANDARD HOUSE LOOP





100 AMP CAPACITY

Qty.	Description
1	12' 1 1/2" EMT conduit or schedule 40 gray PVC
1	1 1/2" EMT connector
1	1 1/2" Weatherhead
3	1 1/2" Straps
	#4 THW Copper Conductor
1	8' Ground rod
1	Ground rod clamp
	Neutral & Ground Conductor must be #6 or larger copper (solid or stranded)
1	100 Amp Main disconnect required
1	1 1/2" Nipple (from meter socket to breaker box)
4	1 1/2" Lock rings
1	100 Amp Meter socket with 1 1/2" hub

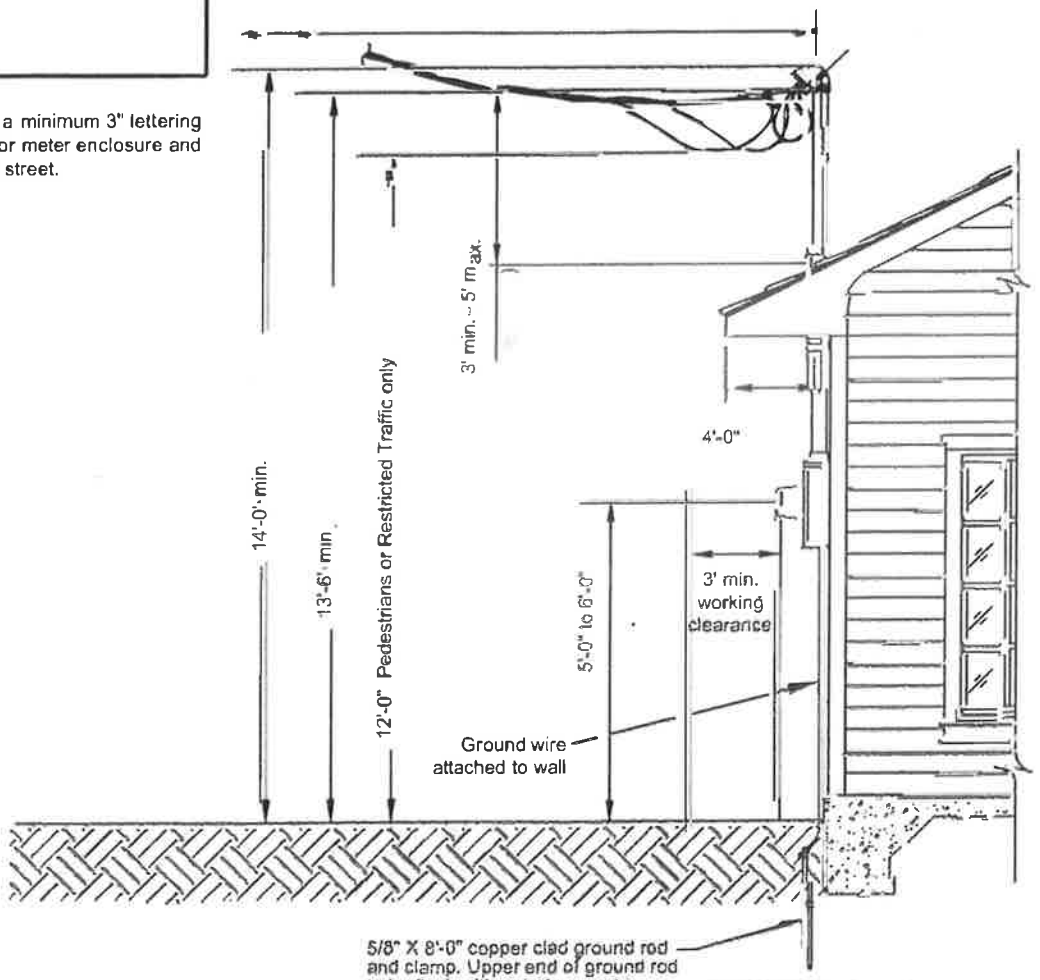
200 AMP CAPACITY

Qty.	Description
1	12' 2" EMT conduit or schedule 40 gray PVC
1	2" EMT connector
1	2" Weatherhead
3	2" Straps
	2/0 THW Copper Conductor
1	8' Ground rod
1	Ground rod clamp
	Neutral & Conductor must be #4 or larger copper (solid or stranded)
1	200 Amp Main disconnect required
1	2" Nipple (from meter socket to breaker box)
4	2" Lock rings
1	200 Amp Meter socket with 2" hub

All Wires Leaving Breaker Box MUST BE IN Electrical Conduit

last revised 05/24/16

911 address shall be a minimum 3" lettering marked on structure, or meter enclosure and should be visible from street.



Maximum Recommended Distance	
Amps	Length
100	100'
200	75'
320	40'

- 3' min. with 5' maximum clearances above roof where conduit installed through eave.

- 13' 6" min. to point of attachment.

- 14' min. clearance above grade for overhead service conductors.

When overhead electrical service installations cannot meet the minimum 18' height requirements on structures due to construction height limitations, this standard shall be applied for installations when approved by COJ Electrical Department Supervisor and Building Official. COJ Electrical Department Supervisor and Building Official will have final approval for all installations.

Minimum Customer Wiring Size - Residence Single Phase				
METER SIZE	CONDUIT SIZE	Current carrying & neutral wire size (per NEC)		COPPER GROUND WIRE SIZE
		ALUMINUM	COPPER	
100 Amp	1.5"	#2	#4	#6
200 Amp	2"	4/0	2/0	#4
320 Amp	3"	500	350	#2

Wire sizes based upon customer breaker size For 3ø, consult the company, Commercial & industrial wire sizes are typically larger.

PERMANENT OVERHEAD SERVICE (ABOVE ROOF LINE)

APPROVED BY:	DATE:
CHECKED BY:	SCALE: None
DRAWN BY:	

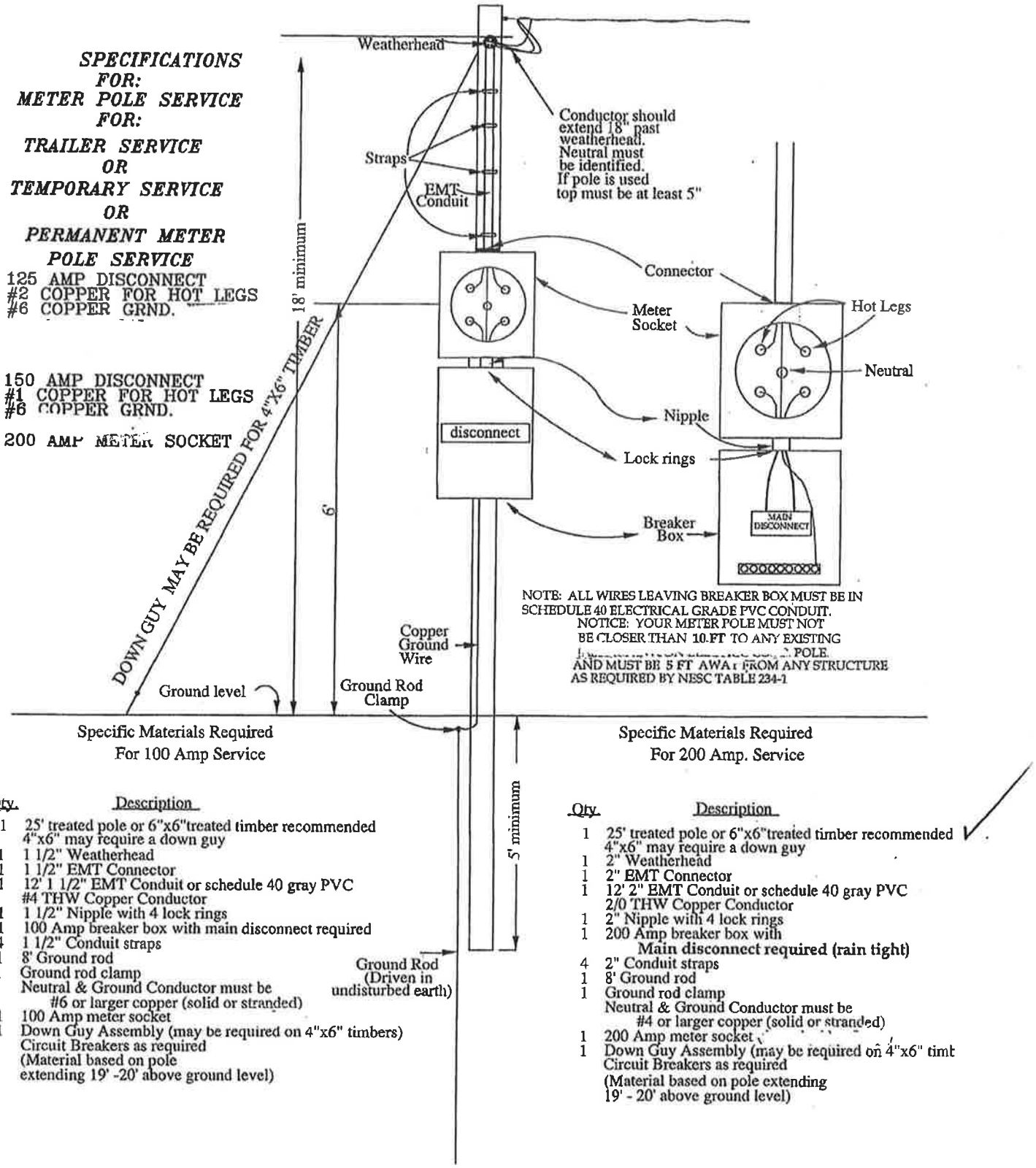
2			
1			
		BY:	APPR:

SPECIFICATIONS FOR:
METER POLE SERVICE
FOR:
TRAILER SERVICE
OR
TEMPORARY SERVICE
OR
PERMANENT METER POLE SERVICE

125 AMP DISCONNECT
#2 COPPER FOR HOT LEGS
#6 COPPER GRND.

150 AMP DISCONNECT
#1 COPPER FOR HOT LEGS
#6 COPPER GRND.

200 AMP METER SOCKET



NOTE: ALL WIRES LEAVING BREAKER BOX MUST BE IN SCHEDULE 40 ELECTRICAL GRADE PVC CONDUIT.
NOTICE: YOUR METER POLE MUST NOT BE CLOSER THAN 10 FT TO ANY EXISTING [illegible] POLE.
AND MUST BE 5 FT AWAY FROM ANY STRUCTURE AS REQUIRED BY NESC TABLE 234-1

Specific Materials Required For 100 Amp Service

Qty.	Description
1	25' treated pole or 6"x6"treated timber recommended 4"x6" may require a down guy
1	1 1/2" Weatherhead
1	1 1/2" EMT Connector
1	12' 1 1/2" EMT Conduit or schedule 40 gray PVC
	#4 THW Copper Conductor
1	1 1/2" Nipple with 4 lock rings
1	100 Amp breaker box with main disconnect required
4	1 1/2" Conduit straps
1	8' Ground rod
1	Ground rod clamp
	Neutral & Ground Conductor must be #6 or larger copper (solid or stranded)
1	100 Amp meter socket
1	Down Guy Assembly (may be required on 4"x6" timbers)
	Circuit Breakers as required
	(Material based on pole extending 19' -20' above ground level)

Specific Materials Required For 200 Amp. Service

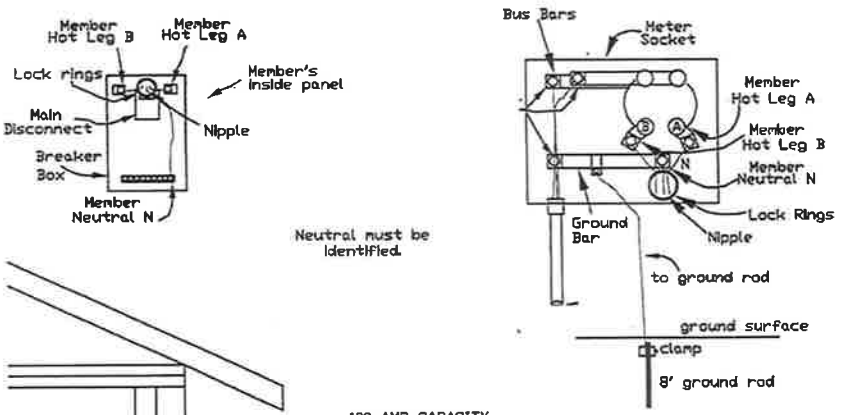
Qty.	Description
1	25' treated pole or 6"x6"treated timber recommended 4"x6" may require a down guy
1	2" Weatherhead
1	2" EMT Connector
1	12' 2" EMT Conduit or schedule 40 gray PVC
	2/0 THW Copper Conductor
1	2" Nipple with 4 lock rings
1	200 Amp breaker box with **Main disconnect required (rain tight)**
4	2" Conduit straps
1	8' Ground rod
1	Ground rod clamp
	Neutral & Ground Conductor must be #4 or larger copper (solid or stranded)
1	200 Amp meter socket
1	Down Guy Assembly (may be required on 4"x6" timbers)
	Circuit Breakers as required
	(Material based on pole extending 19' - 20' above ground level)

All Wires Leaving Breaker Box
MUST BE IN
Electrical Conduit

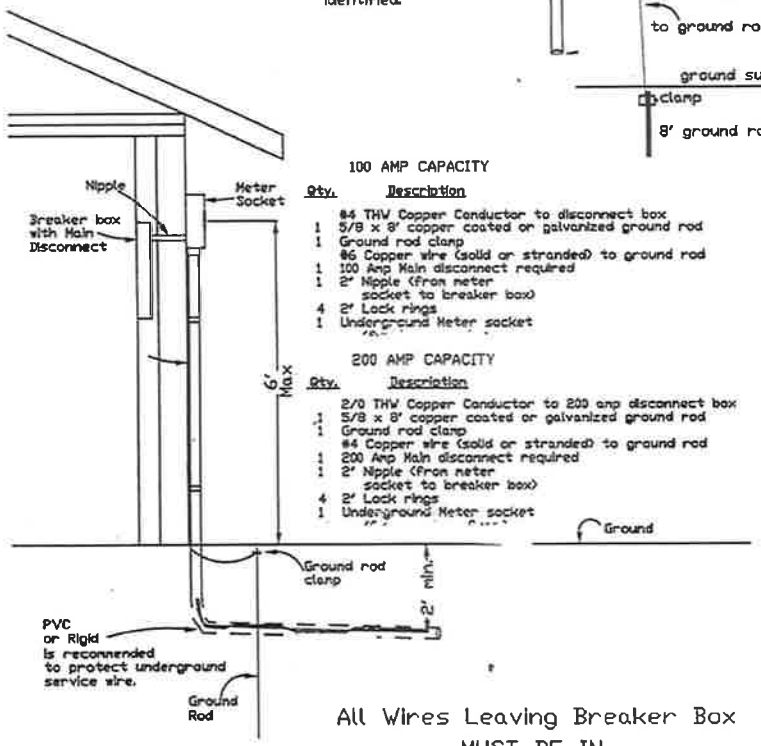
** As required by NESC Table 232-1

Revised 05/24/16

UNDERGROUND SERVICE SPECIFICATIONS



Neutral must be identified.



100 AMP CAPACITY

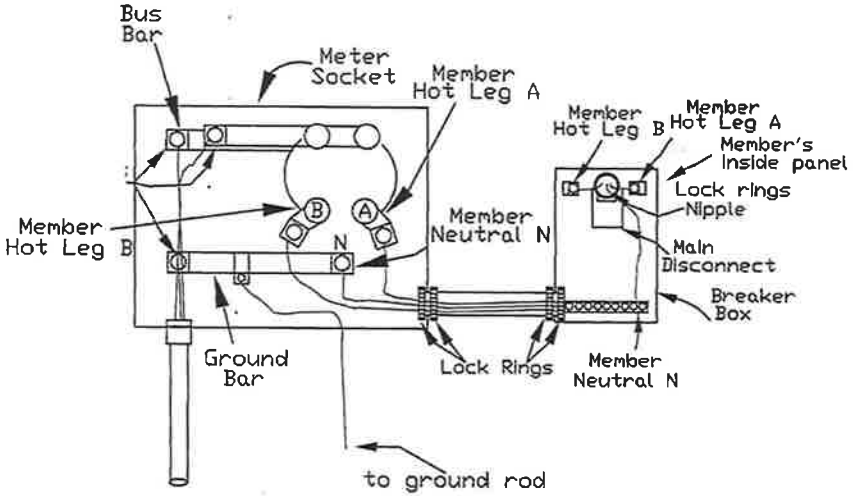
Qty.	Description
	#4 THW Copper Conductor to disconnect box
1	5/8 x 8' copper coated or galvanized ground rod
1	Ground rod clamp
	#6 Copper wire (solid or stranded) to ground rod
1	100 Amp Main disconnect required
1	2' Nipple (from meter socket to breaker box)
4	2' Lock rings
1	Underground Meter socket

200 AMP CAPACITY

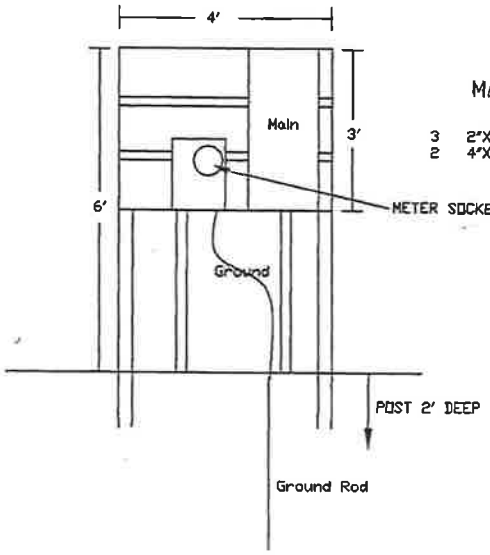
Qty.	Description
	2/0 THW Copper Conductor to 200 amp disconnect box
1	5/8 x 8' copper coated or galvanized ground rod
1	Ground rod clamp
	#4 Copper wire (solid or stranded) to ground rod
1	200 Amp Main disconnect required
1	2' Nipple (from meter socket to breaker box)
4	2' Lock rings
1	Underground Meter socket

All Wires Leaving Breaker Box
MUST BE IN
Electrical/Gray Conduit

Revised 05/24/2016



All Wires Leaving Breaker Box
MUST BE IN
Electrical/Gray Conduit



MATERIAL LIST

3	2"X10"X4' TREATED BOARDS
2	4"X4"X8' TREATED POST