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CABLE TYPES

AL MHF CABLE (MOBILE HOME FEEDER)
INSTALL IN CONDUIT - SCHEDULE 40 PVC
ALSO APPROVED FOR DIRECT BURIAL

100 AMP - 2-2-2-4
200 AMP - 4/0 4/0 2/0 4



SER CABLE

100 AMP - 2-2-2-4
200 AMP - 4/0 4/0 4/0 2/0
NOT FOR DIRECT BURIAL
DO NOT INSTALL IN CONDUIT



AL URD CABLE
INSTALL IN CONDUIT - SCHEDULE 40 PVC
ALSO APPROVED FOR DIRECT BURIAL

100 AMP - 2-2-4
200 AMP - 4/0 4/0 2/0



SEU CABLE

100 AMP - 2-2-2
200 AMP - 4/0 4/0 4/0
NOT FOR DIRECT BURIAL
DO NOT INSTALL IN CONDUIT



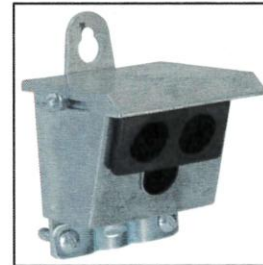
MDEC est. 1942
MARSHALL-DEKALB ELECTRIC COOPERATIVE

SERVICE ENTRANCE CAPS - (WEATHERHEAD)

SERVICE ENTRANCE CAP
FOR USE WITH
RIGID METAL
CONDUIT



SERVICE ENTRANCE CAP
FOR USE WITH SEU CABLE



SERVICE ENTRANCE CAP
FOR USE WITH
SCHEDULE 40
PVC



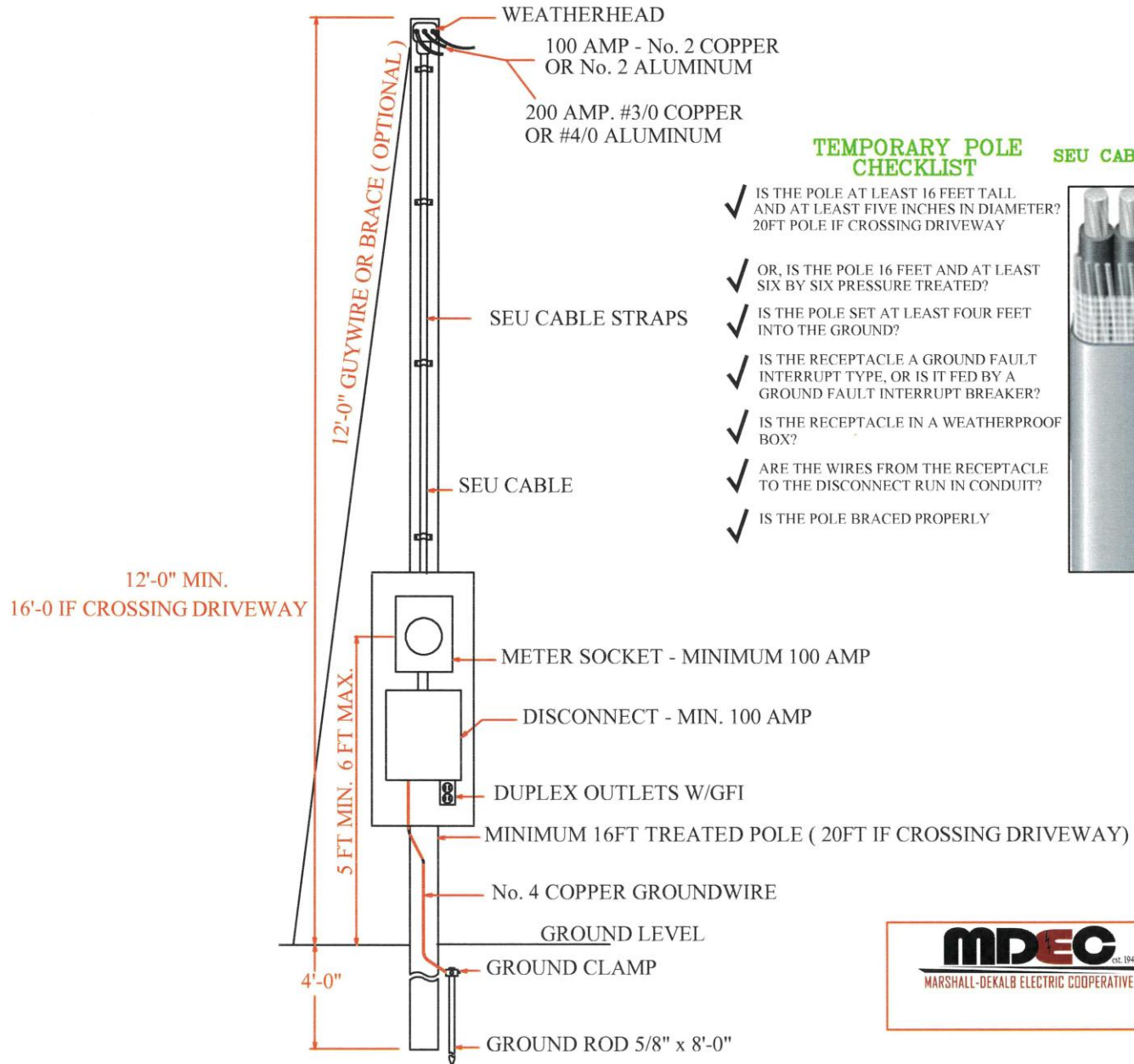
SERVICE ENTRANCE HOOD
FOR USE WITH SEU CABLE



TEMPORARY SERVICE (120-240V)

100 AMP OR 200 AMP

10-1-2024



TEMPORARY POLE CHECKLIST

- ✓ IS THE POLE AT LEAST 16 FEET TALL AND AT LEAST FIVE INCHES IN DIAMETER? 20FT POLE IF CROSSING DRIVEWAY
- ✓ OR, IS THE POLE 16 FEET AND AT LEAST SIX BY SIX PRESSURE TREATED?
- ✓ IS THE POLE SET AT LEAST FOUR FEET INTO THE GROUND?
- ✓ IS THE RECEPTACLE A GROUND FAULT INTERRUPT TYPE, OR IS IT FED BY A GROUND FAULT INTERRUPT BREAKER?
- ✓ IS THE RECEPTACLE IN A WEATHERPROOF BOX?
- ✓ ARE THE WIRES FROM THE RECEPTACLE TO THE DISCONNECT RUN IN CONDUIT?
- ✓ IS THE POLE BRACED PROPERLY

SEU CABLE



PRE-ASSEMBLED EXAMPLE
METER SOCKET WITH DISCONNECT

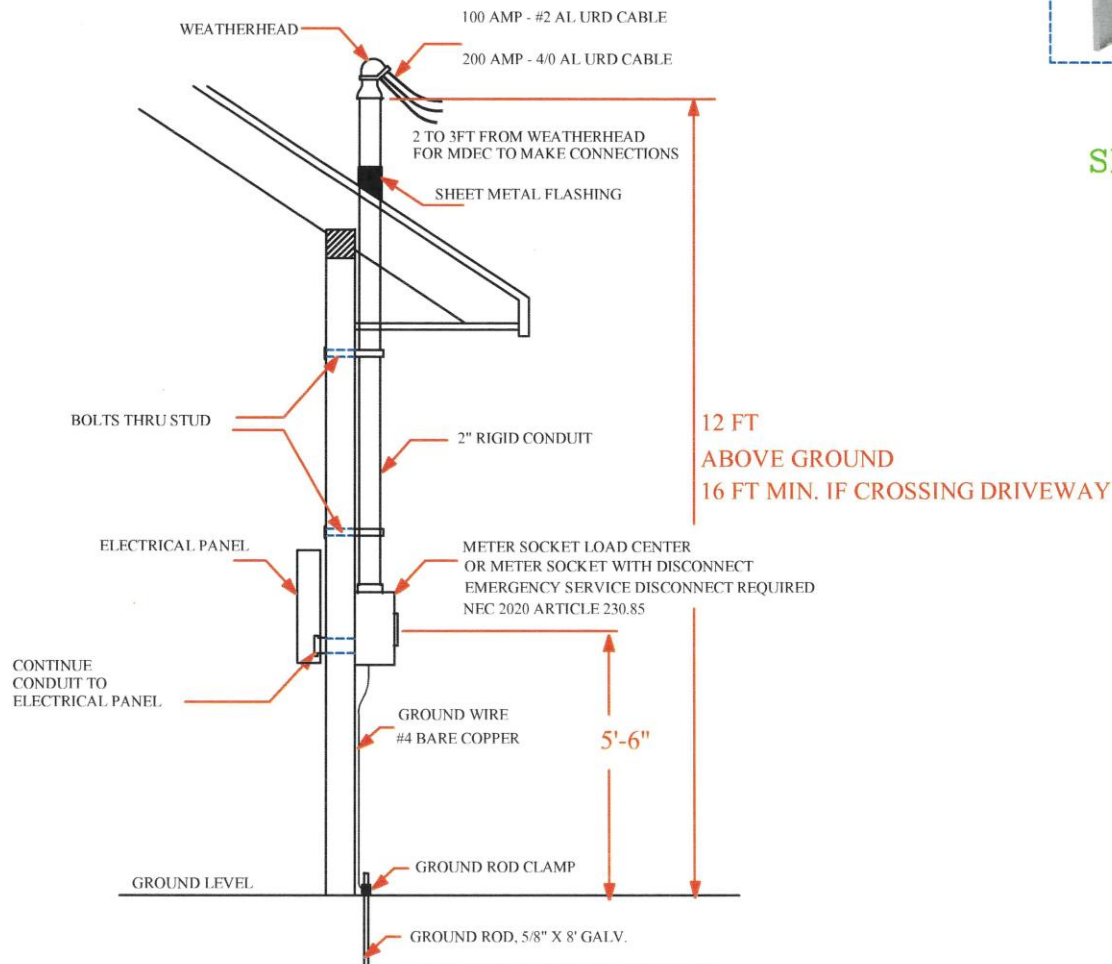


MARSHALL DEKALB ELECTRIC COOPERATIVE RESIDENTIAL OVERHEAD SERVICE REQUIREMENTS

WIRE GUIDELINES CHART

DISCONNECT	COPPER WIRE	ALUMINUM WIRE	CONDUIT SIZE
100 AMP	#2	#2	2"
200 AMP	3/0	4/0	2"

TYPICAL SERVICE MAST INSTALLATION 10-1-2024



METER SOCKET LOAD CENTER COMBO



SITE BUILT STRUCTURE CHECKLIST

- ✓ EMERGENCY SERVICE DISCONNECT REQUIRED
NEC 2020 ARTICLE 230.85
- ✓ 4 WIRE SERVICE ENTRANCE REQUIRED TO SUB PANELS
- ✓ DOES THE CONDUIT FOR THE SERVICE EXTEND AT LEAST 18" ABOVE THE ROOF?
- ✓ IF THE CONDUIT EXTENDS ABOVE THE ROOF, IS IT GALVANIZED CONDUIT?
- ✓ IF THE CONDUIT DOES NOT EXTEND ABOVE THE ROOF, HAS A EYEBOLT BEEN INSTALLED THROUGH A FRAMING MEMBER?
- ✓ IF THE CONDUIT RISER HAS A SPLICE, DOES THE SPLICE OCCUR WITHIN FOUR FEET OF THE METER BASE?
- ✓ IS THE METER BASE INSTALLED SO THAT THE WIRES TO THE WEATHER HEAD DO NOT CROSS THE ROOF
- ✓ IS THE METER BASE INSTALLED AT THE CORRECT HEIGHT - 5 1/2 FEET
- ✓ USE PENATROX OR OXYGUARD ON ALL ALUMINUM CONNECTIONS

MARSHALL-DeKALB ELECTRIC COOPERATIVE RESIDENTIAL UNDERGROUND SERVICE REQUIREMENTS

200 AMP
10-1-2024

WIRE GUIDELINES CHART

DISCONNECT	COPPER WIRE	ALUMINUM WIRE	CONDUIT SIZE
200 AMP	3/0	4/0	2 1/2"

EXAMPLES METER SOCKET LOAD CENTER COMBO METER SOCKET WITH DISCONNECT

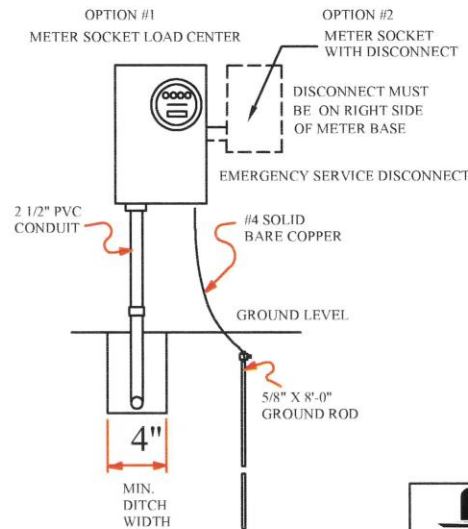
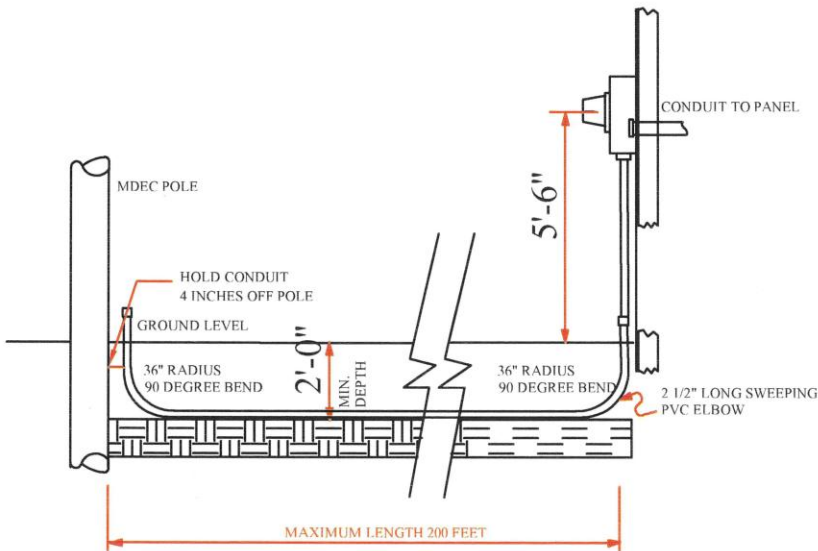


← OR →



SITE BUILT STRUCTURE CHECKLIST

- ✓ EMERGENCY SERVICE DISCONNECT REQUIRED
NEC 2020 ARTICLE 230.85
- ✓ 4 WIRE SERVICE ENTRANCE REQUIRED TO SUB PANELS
- ✓ USE METER SOCKET LOAD CENTER
OR 200 AMP METER SOCKET WITH DISCONNECT
- ✓ IF THE SERVICE IS GOING TO
BE UNDERGROUND:
HAVE PORTIONS OF THE
FOUNDATION BEYOND THE
EXTERIOR WALL BEEN
REMOVED?
- ✓ MAXIMUM LENGTH OF UNDERGROUND SERVICE
IS 200 FEET.
- ✓ IS DITCH CLEAR OF ALL OBSTUCTIONS,
TREE ROOTS, ETC.
- ✓ CUSTOMER MUST OPEN DITCH
24 INCHES IN DEPTH
- ✓ CUSTOMER TO FURNISH & INSTALL
MINIMUM 2 1/2" SCHEDULE 40 PVC
FROM POLE TO METER BASE
USE 2 1/2" LONG SWEEPING ELBOWS
36" RADIUS ONLY.
- ✓ INSTALL PULL STRING PROVIDED BY MDEC
- ✓ DITCH MUST BE INSPECTED BY MDEC BEFORE CLOSING



SITE BUILT STRUCTURE CHECKLIST

- ✓ EMERGENCY SERVICE DISCONNECTS REQUIRED
NEC 2020 ARTICLE 230.85
- ✓ 4 WIRE SERVICE ENTRANCE REQUIRED TO SUB PANELS
- ✓ USE CLASS 320 METER SOCKET WITH 2 - 200 AMP DISCONNECTS
OR USE 400 AMP METER SOCKET LOAD CENTER
- ✓ IF THE SERVICE IS GOING TO BE UNDERGROUND:
HAVE PORTIONS OF THE FOUNDATION BEYOND THE EXTERIOR WALL BEEN REMOVED?
- ✓ MAXIMUM LENGTH OF UNDERGROUND SERVICE IS 200 FEET.
- ✓ IS DITCH CLEAR OF ALL OBSTUCTIONS, TREE ROOTS, ETC.
- ✓ CUSTOMER MUST OPEN DITCH 24 INCHES IN DEPTH
- ✓ CUSTOMER TO FURNISH & INSTALL 3" SCHEDULE 40 PVC FROM POLE TO METER BASE USE 3" LONG SWEEPING ELBOWS 36" RADIUS ONLY.
- ✓ INSTALL PULL STRING PROVIDED BY MDEC
- ✓ DITCH MUST BE INSPECTED BY MDEC BEFORE CLOSING

MARSHALL DEKALB ELECTRIC COOPERATIVE 400 AMP SINGLE PHASE / RESIDENTIAL

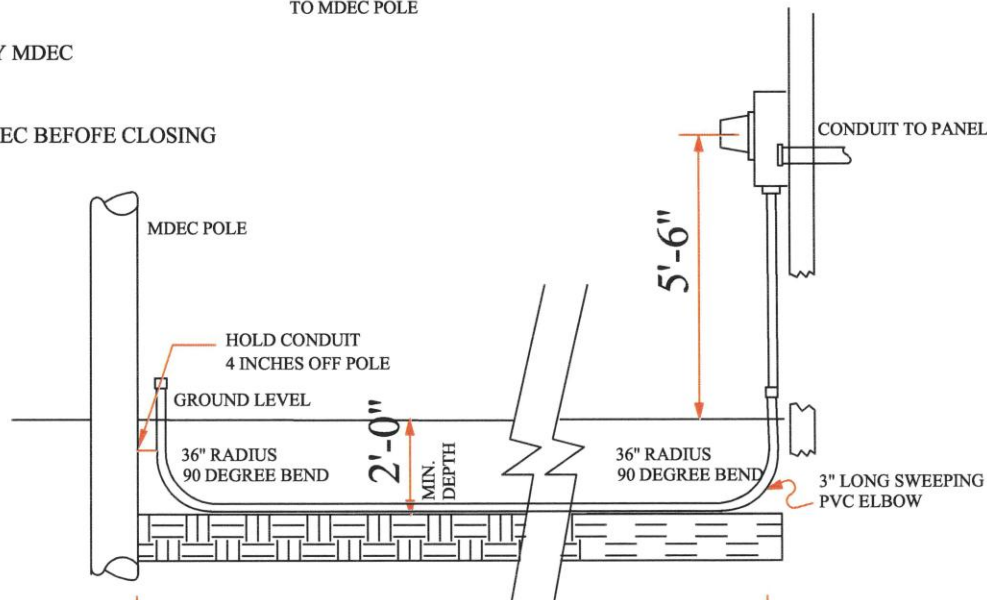
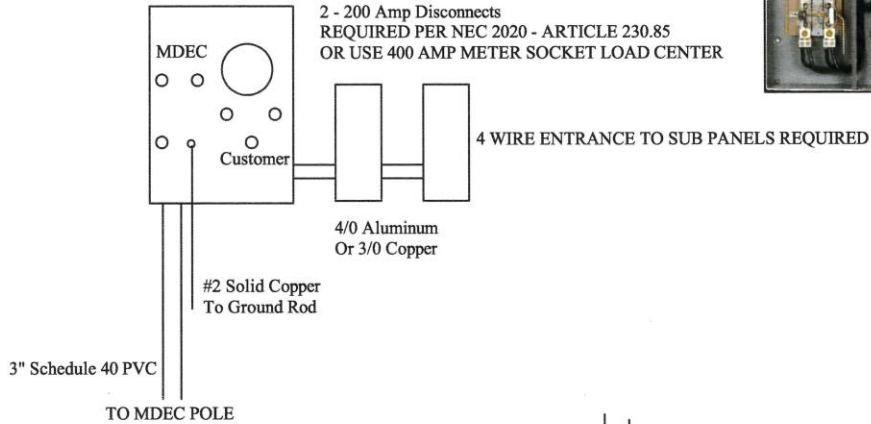
WIRE CHART - METER SOCKET/DISCONNECTS INTO HOUSE

DISCONNECT	COPPER WIRE	ALUMINUM WIRE	CONDUIT SIZE
2 - 200 AMP	3/0	4/0	2" MINIMUM

**EXAMPLE
400 AMP METER SOCKET LOAD CENTER**



CLASS 320 METER SOCKET



10-1-2024

MARSHALL-DEKALB ELECTRIC COOPERATIVE UNDERGROUND PEDESTAL INSTALLATION UNDERGROUND SERVICE FOR MOBILE HOMES

UNDERGROUND SERVICE TO MOBILE HOME CHECKLIST

- ✓ EMERGENCY SERVICE DISCONNECT REQUIRED
NEC 2020 ARTICLE 230.85
- ✓ IS THERE A FOUR WIRE SERVICE FROM THE DISCONNECT INTO THE MOBILE HOME (EQUIPMENT GROUND)
- ✓ CUSTOMER PROVIDE AND INSTALL 5/8IN GROUND ROD AND CLAMP
INSTALL #4 BARE COPPER GROUND
- ✓ IS THE PEDESTAL INSTALLED SO THAT THE UNDERGROUND SERVICE IS IN A STRAIGHT LINE FROM THE MDEC POLE AND DOES NOT GO UNDERNEATH ANY PART OF MOBILE HOME
- ✓ ARE THE METER SOCKET AND DISCONNECT MOUNTED ON PRESSURE TREATED MATERIAL?
- ✓ ARE THE METER SOCKET AND DISCONNECT MOUNTED WITH TWO-INCH LAG BOLTS?
- ✓ ARE THE WIRES IN CONDUIT AT ALL POINTS THAT THEY ARE ABOVE THE GROUND?
- ✓ IS THE WIRE APPROVED FOR UNDERGROUND SERVICE?
USE ALUMINUM MHF CABLE - MOBILE HOME FEEDER
- ✓ CUSTOMER RESPONSIBLE FOR ALL TRENCHING
MINIMUM 2FT DEPTH
- ✓ CUSTOMER TO PROVIDE AND INSTALL 2 1/2" SCHEDULE 40 PVC FROM MDEC RISER POLE TO METER SOCKET
- ✓ 2 1/2" PVC LONG SWEEPING ELBOWS REQUIRED AT POLE AND METER - 36" RADIUS
- ✓ TURN PVC UP 4 INCHES AWAY FROM MDEC POLE
- ✓ INSTALL PULL STRING - MDEC WILL PROVIDE
- ✓ DITCH MUST BE INSPECTED BY MDEC BEFORE CLOSING

WIRE GUIDELINES CHART FOR MOBILE HOMES

DISCONNECT	COPPER WIRE	ALUMINUM WIRE	CONDUIT SIZE
100 AMP	#2	#2	2 1/2"
200 AMP	3/0	4/0	2 1/2"
EQUIPMENT GROUND	#6	#4	

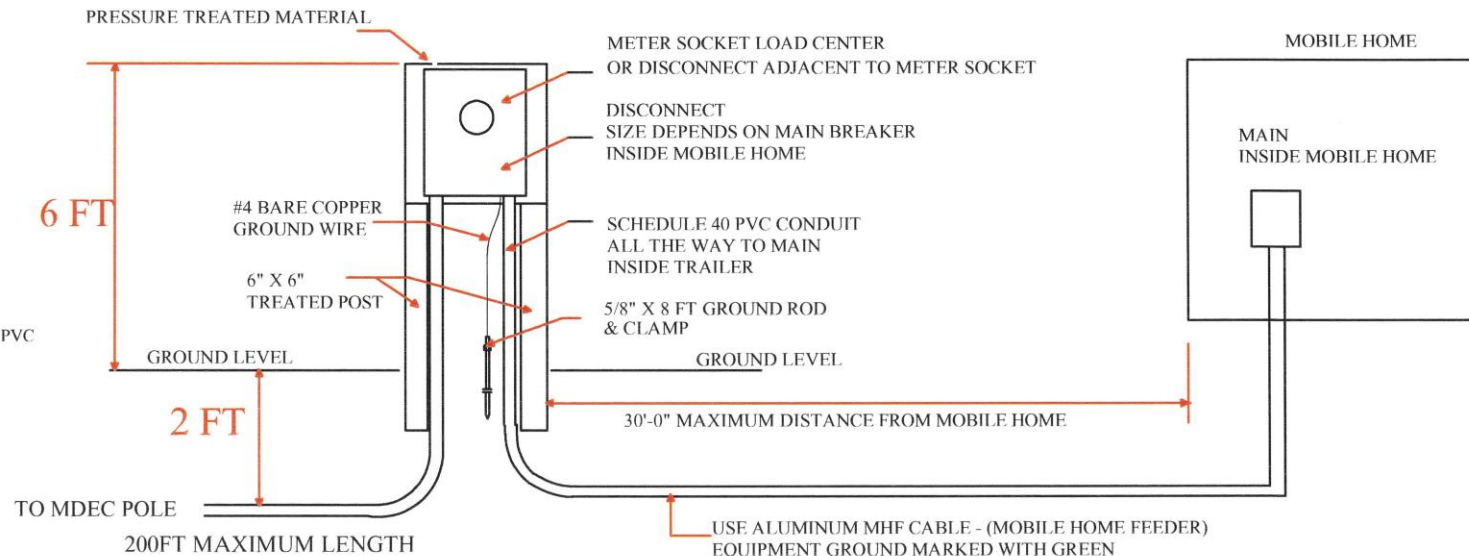
METER SOCKET LOAD CENTER COMBO



OR



METER SOCKET WITH DISCONNECT



10-1-2024

INSTALLATION INSTRUCTIONS FOR MOBILE HOME OVERHEAD SERVICE

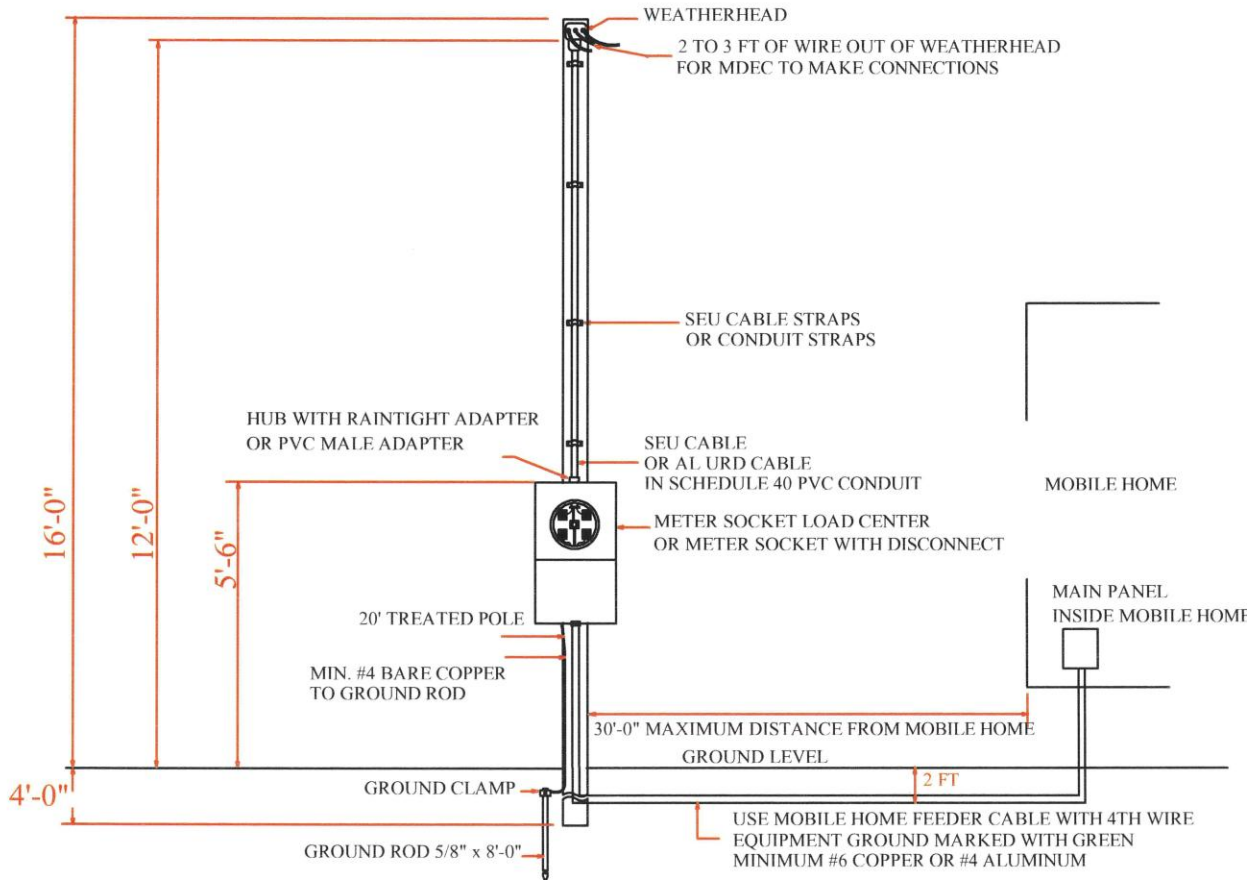
WIRE GUIDELINES CHART—MOBILE HOMES

DISCONNECT	COPPER WIRE	ALUMINUM WIRE	CONDUIT SIZE
100 AMP	#2	#2	2"
200 AMP	3/0	4/0	2"
EQUIPMENT GROUND	#6	#4	

METER SOCKET LOAD CENTER COMBO



← OR →



MOBILE HOME CHECKLIST

- ✓ METER SOCKET LOAD CENTER OR METER SOCKET WITH DISCONNECT MUST BE RATED FOR MAIN BREAKER INSIDE MOBILE HOME
- ✓ IS THERE A FOUR WIRE SERVICE FROM THE DISCONNECT INTO THE MOBILE HOME (EQUIPMENT GROUND)
- ✓ IS THE POLE AT LEAST 20 FEET TALL AND AT LEAST FIVE INCHES IN DIAMETER?
- ✓ OR, IS THE POLE 20 FEET AND AT LEAST SIX BY SIX PRESSURE TREATED?
- ✓ IS THE POLE SET AT LEAST FOUR FEET INTO THE GROUND?
- ✓ IS THE POLE SET SO THAT THE WIRES TO THE WEATHER HEAD DO NOT CROSS THE ROOF OF THE MOBILE HOME?
- ✓ ARE THE METER BASE AND DISCONNECT MOUNTED ON PRESSURE TREATED MATERIAL?
- ✓ ARE THE METER AND DISCONNECT MOUNTED WITH TWO-INCH LAG BOLTS?
- ✓ INSTALL 5/8" GROUND ROD, #4 BARE COPPER GROUND & CLAMP
- ✓ ARE THE WIRES IN CONDUIT AT ALL POINTS THAT THEY ARE ABOVE THE GROUND? DO NOT USE SEU OR SER CABLE IN CONDUIT
- ✓ IS THE WIRE APPROVED FOR UNDERGROUND SERVICE? DO NOT USE SEU OR SER CABLE FOR DIRECT BURIAL
- ✓ USE PENATROX OR OXYGUARD ON ALL ALUMINUM CONNECTIONS
- ✓ POLE CAN NOT BE LOOSE IN GROUND ADD QUICKCRETE AS FILL

MARSHALL DEKALB ELECTRIC COOPERATIVE INSTALLATION INSTRUCTIONS FOR RV OVERHEAD SERVICE

PRE-ASSEMBLED EXAMPLE METER SOCKET WITH DISCONNECT

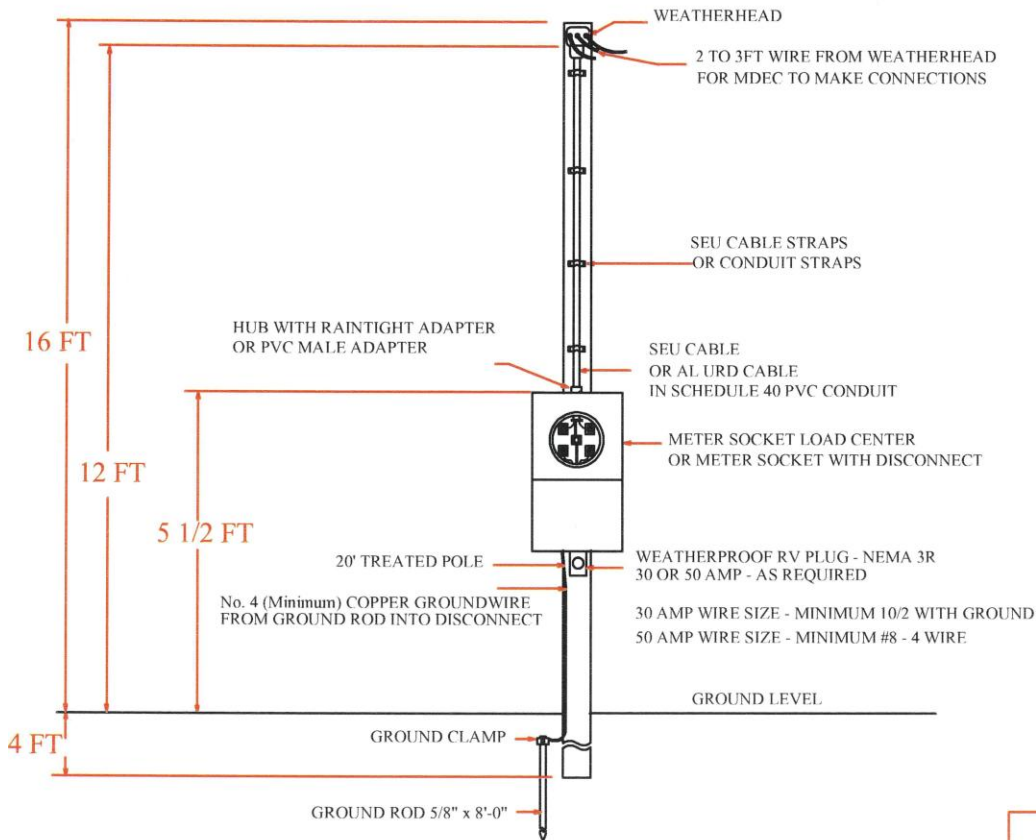
METER SOCKET LOAD CENTER COMBO

WIRE GUIDELINES CHART

MAIN DISCONNECT	COPPER WIRE	ALUMINUM WIRE	CONDUIT SIZE
100 AMP	#2	#2	2"
200 AMP	3/0	4/0	2"



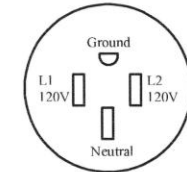
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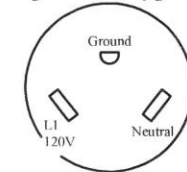
RV CHECKLIST

- ✓ IS THE POLE AT LEAST 20 FEET TALL AND AT LEAST FIVE INCHES IN DIAMETER?
- ✓ OR, IS THE POLE 20 FEET AND AT LEAST SIX BY SIX PRESSURE TREATED?
- ✓ IS THE POLE SET AT LEAST FOUR FEET INTO THE GROUND?
- ✓ IS THE POLE SET SO THAT THE WIRES TO THE WEATHER HEAD DO NOT CROSS THE ROOF OF THE RV
- ✓ ARE THE METER BASE AND DISCONNECT MOUNTED ON PRESSURE TREATED MATERIAL?
- ✓ ARE THE METER AND DISCONNECT MOUNTED WITH TWO-INCH LAG BOLTS?
- ✓ ARE THE RV PLUGS AND ENCLOSURE WEATHERPROOF - NEMA 3R
- ✓ USE PENATROX OR OXYGUARD ON ALL ALUMINUM CONNECTIONS
- ✓ POLE CAN NOT BE LOOSE IN GROUND ADD QUICKCRETE AS FILL

50 AMP
Receptacle - Type 14-50R



30 AMP
Receptacle - Type TT-30R

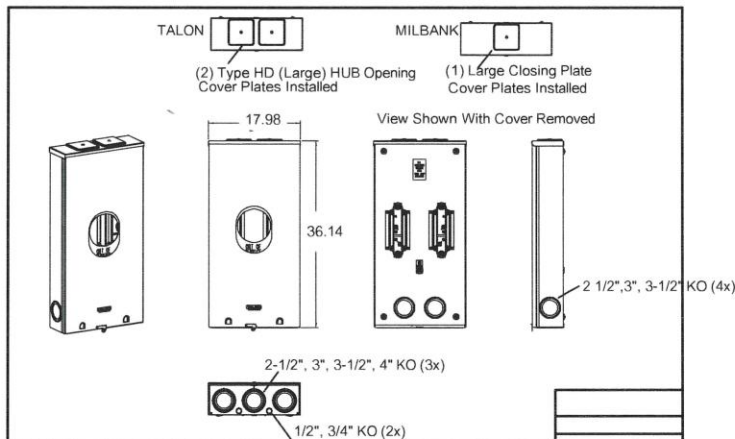


MARSHALL DEKALB ELECTRIC COOPERATIVE

Single Phase - Overhead/Underground - 600 Amp Bolt-In

10-1-2024

Talon Catalog Number 9810-9507
 Milbank Catalog Number 4664-X-8507



EMERGENCY DISCONNECTS REQUIRED
 NEC ARTICLE 230.85

CONTACT MDEC ENGINEERING DEPARTMENT

