



Answer the following based on the service drawing above, as per the National Electric Code:
 (Use of the National Electric Code book is permitted.)

1. What is the minimum size grounding conductor required to the cold water pipe? _____
2. What is the minimum size grounding conductor required to the ground rod? _____
3. Where should the primary grounding conductor terminate? _____
4. What size bonding jumper is required from the bonding bushing to the neutral bar in the Main Service Switch?

5. Assuming that there is metal conduit raceway from the Main Service Switch to Panel A; is a bonding bushing required if the service is 120/208-volt? _____
6. Assuming that there is metal conduit raceway from the Main Service Switch to Panel A; is a bonding bushing required if the service is 277/480-volt and concentric or electric knockouts are encountered? _____
7. If a bonding bushing is required for question #6 above, what size is the bonding jumper? _____
8. Assuming that there is PVC conduit raceway from the Main Service Switch to Panel A; what size grounding conductor is required? _____
9. Is a bond screw required in the Main Service Switch? _____
10. Is a bond screw required in Panel A? _____
11. Is SE type cable with a non-insulated grounding conductor approved for the wiring of Range A? _____
12. Is 8-3 MC type cable approved for the wiring of Range B? _____