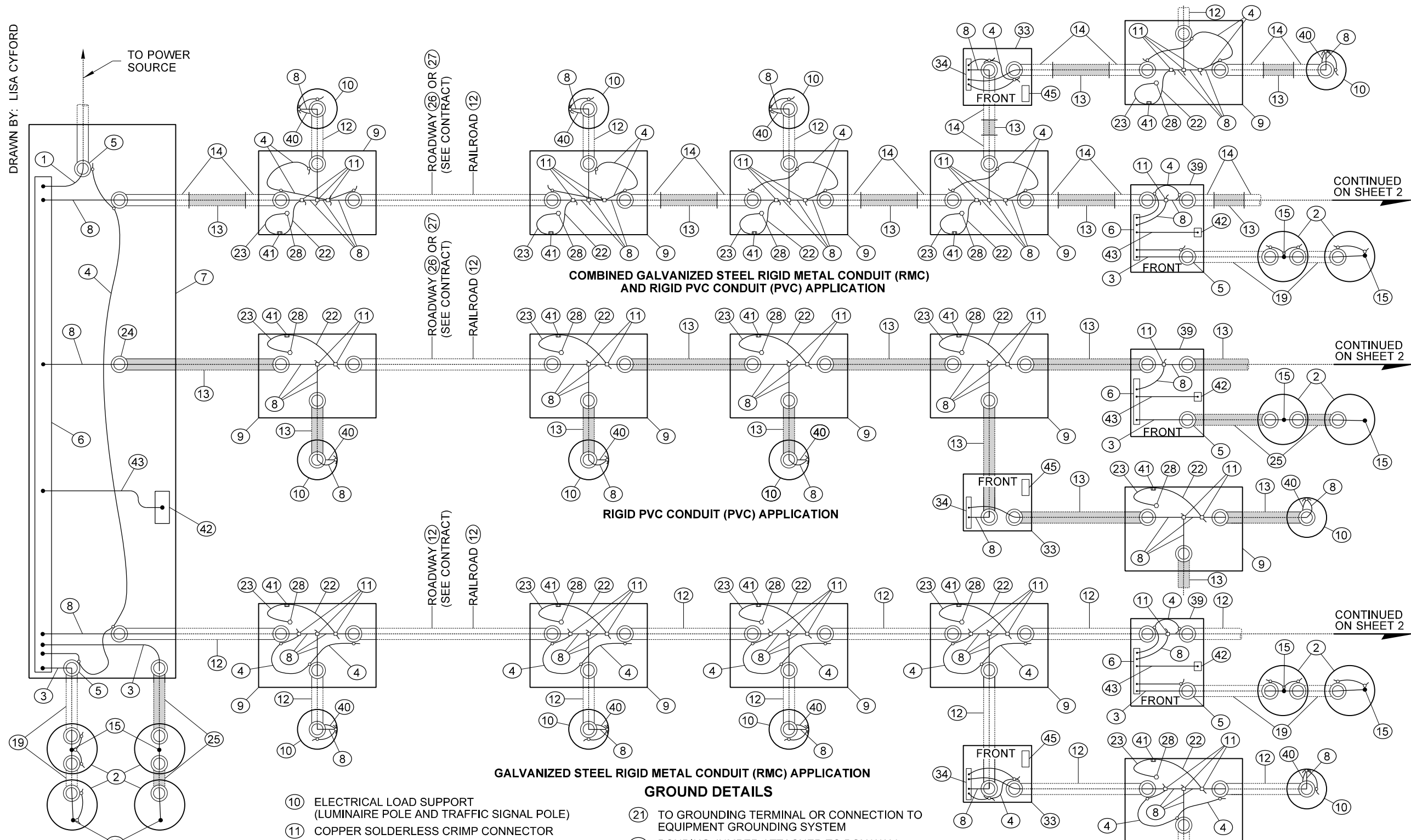


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RMC APPLICATION **PVC APPLICATION**

- KEY**
- ① SERVICE NEUTRAL
 - ② SERVICE GROUND
 - ③ GROUNDING ELECTRODE CONDUCTOR
 - ④ BONDING JUMPER
 - ⑤ GROUNDING BUSHING (TYP. ALL RMC CONDUIT TERMINATIONS)
 - ⑥ GROUNDED NEUTRAL BUS (COPPER)
 - ⑦ SERVICE ENCLOSURE
 - ⑧ EQUIPMENT GROUNDING CONDUCTOR
 - ⑨ JUNCTION BOX

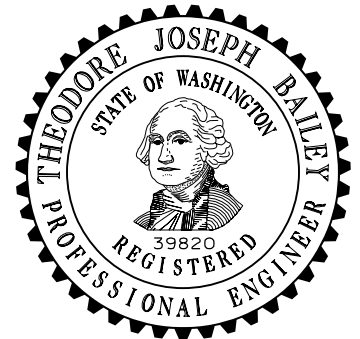
- ⑩ ELECTRICAL LOAD SUPPORT (LUMINAIRE POLE AND TRAFFIC SIGNAL POLE)
- ⑪ COPPER SOLDERLESS CRIMP CONNECTOR
- ⑫ GALVANIZED STEEL RIGID METAL CONDUIT (RMC)
- ⑬ RIGID PVC CONDUIT (PVC)
- ⑭ OPTION A - 10' RMC WITH FIELD BEND
- APPROVED ADAPTER FITTING
- GROUNDING BUSHING
- OPTION B - 10' RMC
- GS FACTORY ELBOWS
- APPROVED ADAPTER FITTING
- GS COUPLING
- GROUNDING BUSHING
- ⑮ GROUND ROD
- ⑯ EDGE OF FOUNDATION, POLE OR SERVICE SUPPORT
- ⑰ CLAMP
- ⑱ JUNCTION BOX OR 8" DRAIN TILE WITH APPROVED CONCRETE COVER
- ⑲ CODE SIZE RMC
- ⑳ TO SERVICE NEUTRAL BUS

- GROUND DETAILS**
- ㉑ TO GROUNDING TERMINAL OR CONNECTION TO EQUIPMENT GROUNDING SYSTEM
 - ㉒ BONDING JUMPER ATTACHED TO BOX WALL COUPLING NUT
 - ㉓ BONDING JUMPER ATTACHED TO BOX LID(S) GROUND STUD. # 8 AWG (MIN.) x 4' (FT) TINNED BRAIDED COPPER.
 - ㉔ END BELL BUSHING (TYP. ALL NON-METALLIC CONDUIT TERMINATIONS)
 - ㉕ CODE SIZED PVC
 - ㉖ HIGH-DENSITY POLYETHYLENE CONDUIT (HDPE)
 - ㉗ NON-METALLIC CONDUIT (PVC) SCHEDULE 80
 - ㉘ BOX LID(S) GROUND STUD
 - ㉙ CABLE VAULT
 - ㉚ PULL BOX
 - ㉛ ITS CABINET
 - ㉜ EDGE OF FOUNDATION
 - ㉝ TRAFFIC SIGNAL CABINET

- ㉞ CABINET GROUNDING BUSS (COPPER)
- ㉟ RIGID PVC OUTERDUCT WITH PVC OR PE INNERDUCT
- ㊱ GALVANIZED STEEL RIGID METAL CONDUIT OUTERDUCT WITH PVC OR PE INNERDUCT
- ㊲ EQUIPMENT GROUNDING CONDUCTOR CONNECTION POINT IN CABLE VAULT OR PULL BOX BETWEEN SEPERATE SERVICES
- ㊳ DETECTABLE UNDERGROUND WARNING TAPE. COIL 2' INSIDE CABINET, CABLE VAULT, OR PULL BOX
- ㊴ TRANSFORMER CABINET
- ㊵ GROUNDING CONDUCTOR NON-INSULATED (FROM REINFORCING CAGE)
- ㊶ BOX FRAME BONDING ATTACHMENT POINT
- ㊷ GROUND LUG WELDED TO CABINET WALL (W/ TINNED COPPER BUSS)
- ㊸ CABINET MAIN BONDING JUMPER
- ㊹ ITS CAMERA, RAMP METER, TRAFFIC DATA STATION, HIGHWAY ADVISORY RADIO
- ㊺ UNGROUNDED CABINET NEUTRAL BUSS (COPPER)

NOTES

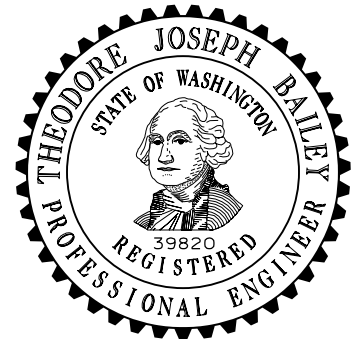
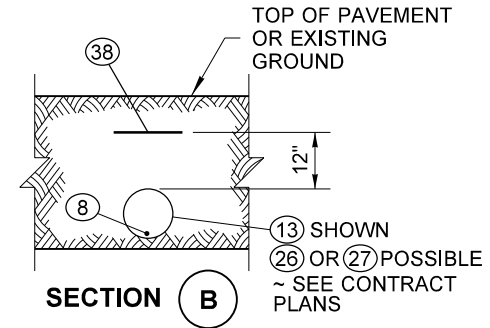
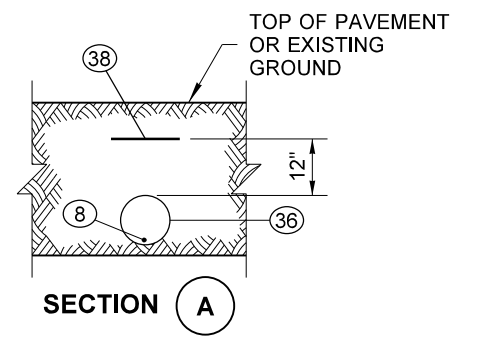
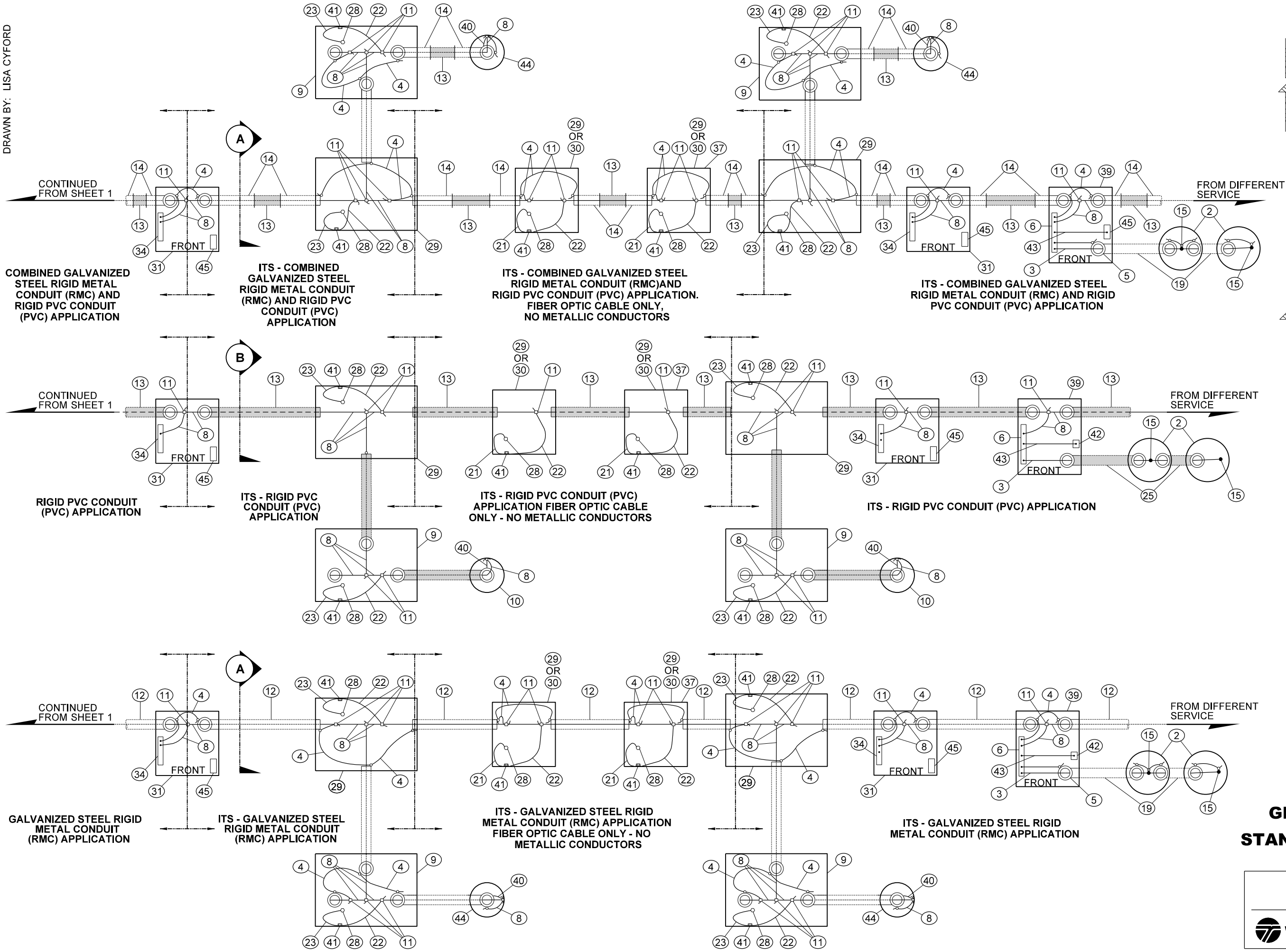
1. If parallel circuits of different sizes are contained in one conduit, the size of the grounding conductor shall be determined on the basis of the largest conductor. Only one grounding conductor is required for each conduit, regardless of the number of circuits contained.
2. Service ground per serving utility requirement. If the utility uses aluminum service conductors, an approved Al-Cu pressure-type ground connector shall be used to secure the service neutral to the copper neutral bar in the service enclosure. Except for the above, all grounding conductors shall be copper.
3. Equipment grounding conductors and grounding electrode conductors shall be sized in accordance with the National Electrical Code (No. 8 minimum).



TYPICAL GROUNDING DETAILS
STANDARD PLAN J-60.05-01

SHEET 1 OF 3 SHEETS
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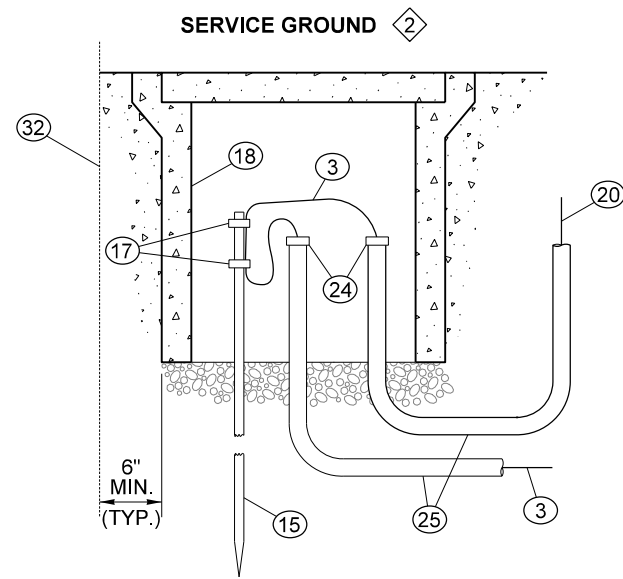
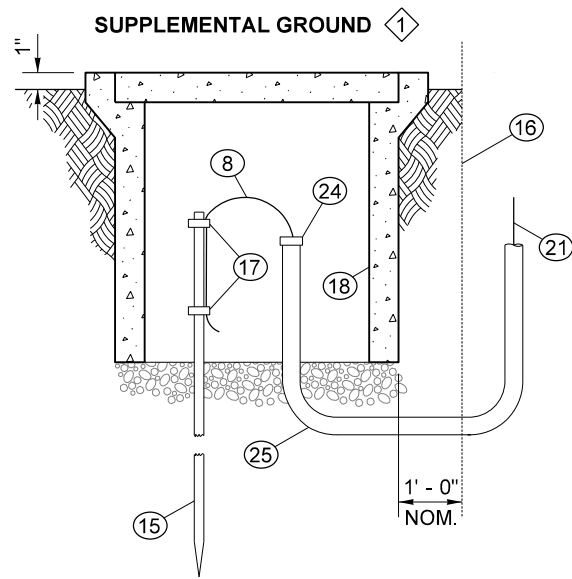
**TYPICAL
GROUNDING DETAILS
STANDARD PLAN J-60.05-01**

SHEET 2 OF 3 SHEETS

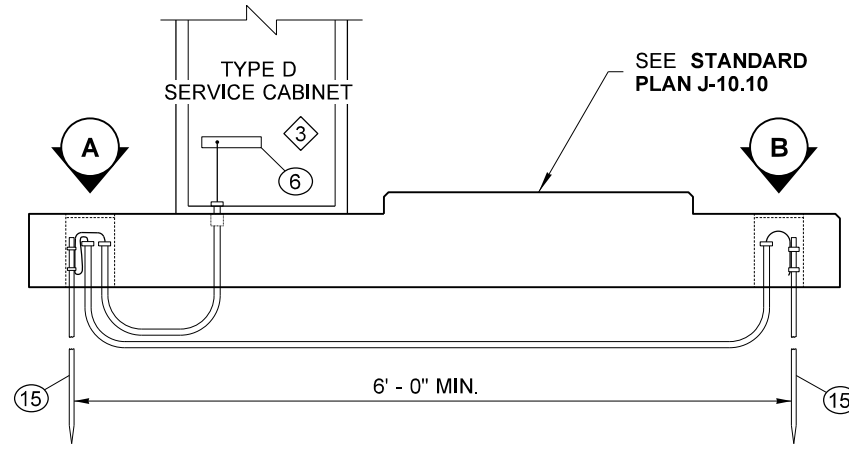
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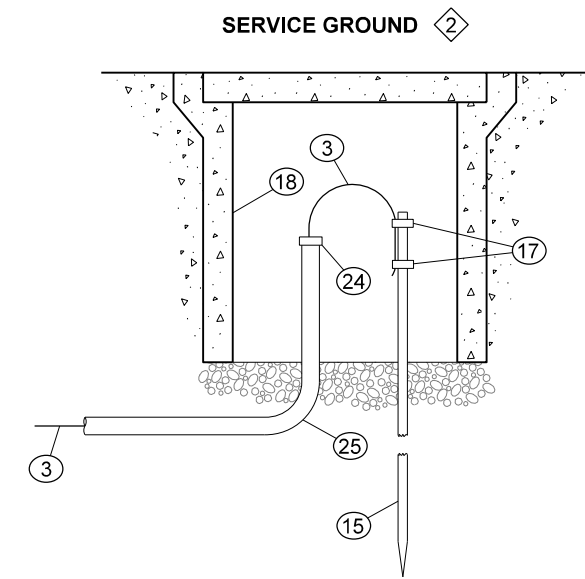
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DETAIL A

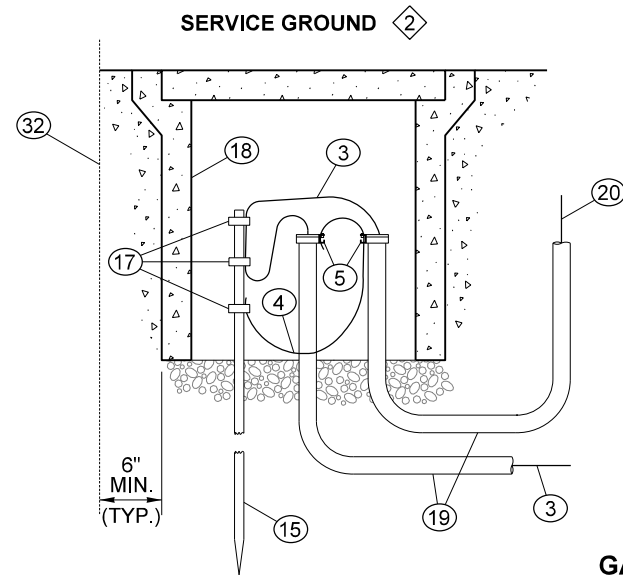
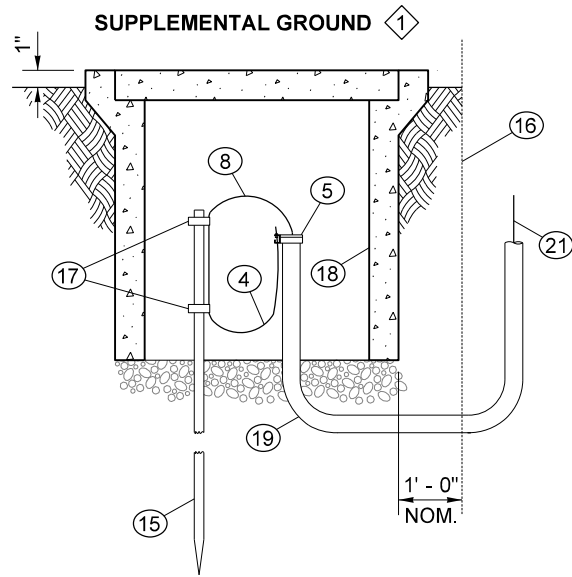


RIGID PVC CONDUIT (PVC) APPLICATION

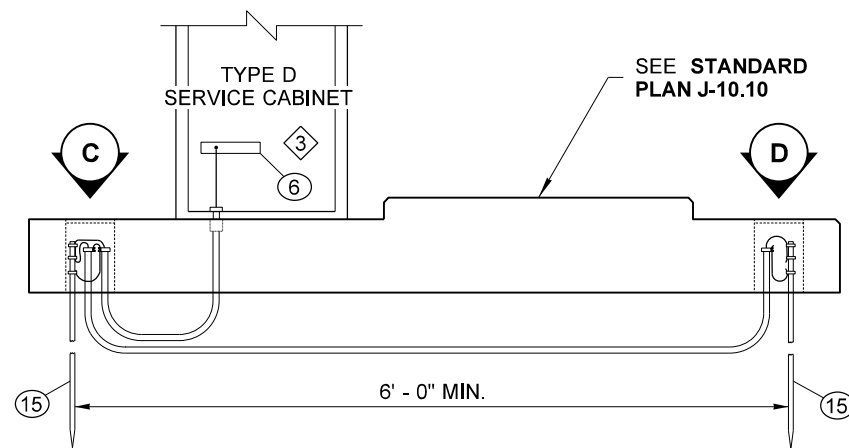


DETAIL B

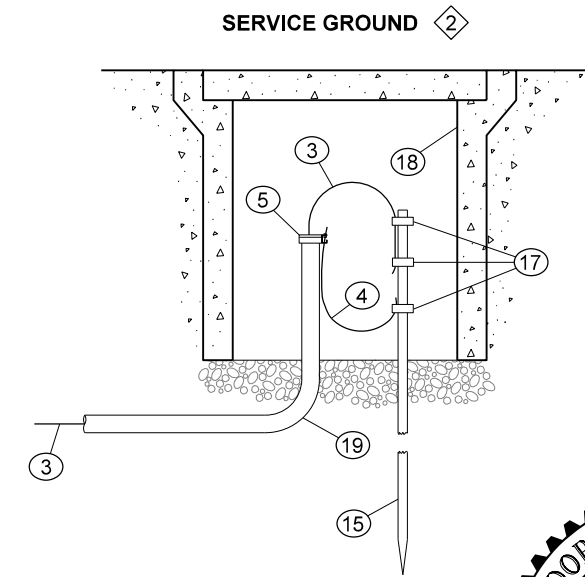
SEE KEY ON SHEET 1 FOR PARTS



DETAIL C

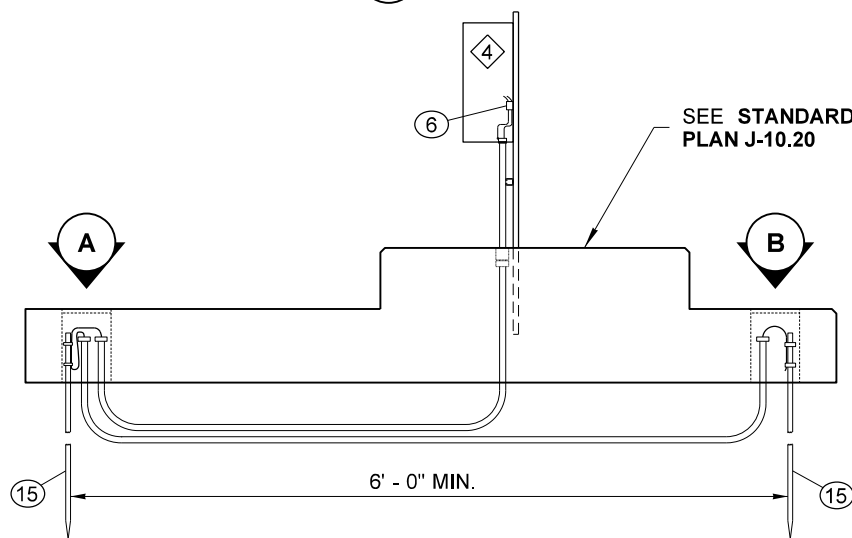


GALVANIZED STEEL RIGID METAL CONDUIT (RMC) APPLICATION

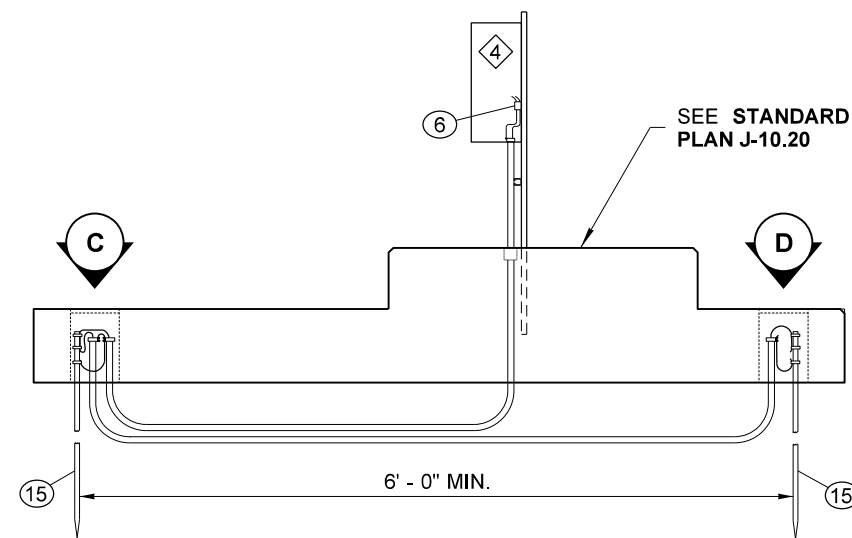


DETAIL D

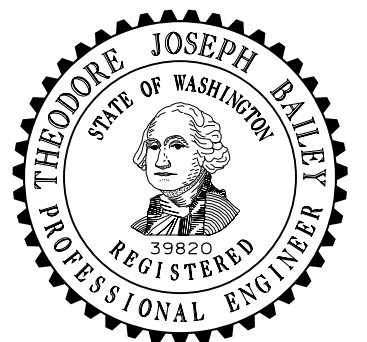
- 1 Required to supplement equipment grounding for luminaire standards with direct burial aerial feeds, or where required in the plans
- 2 Required at all service and separately derived systems
- 3 Type D service cabinet shown. Use this concept for Type E cabinet or transformer. Type D service cabinet shall be installed on lower surface of foundation only. Type B service cabinet and transformer cabinet shall be installed on raised surface of foundation only.
- 4 Type B modified service cabinet
- 5 Grounding electrode conductor and equipment grounding conductor shall not be routed through lug on grounding bushing.



RIGID PVC CONDUIT (PVC) APPLICATION



GALVANIZED STEEL RIGID METAL CONDUIT (RMC) APPLICATION



**TYPICAL
GROUNDING DETAILS
STANDARD PLAN J-60.05-01**

SHEET 3 OF 3 SHEETS

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