

- SERVICE NEUTRAL
- 2 SERVICE GROUND
- (3) GROUNDING ELECTRODE CONDUCTOR
- (4) BONDING JUMPER
- **GROUNDING BUSHING** (TYP. ALL RMC CONDUIT TERMINATIONS)
- GROUNDED NEUTRAL BUS (COPPER)
- $\overline{7}$ SERVICE ENCLOSURE
- **EQUIPMENT GROUNDING CONDUCTOR**
- JUNCTION BOX

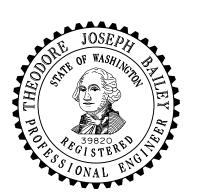
- OPTION B 10' RMC
 - GS FACTORY ELBOWS
 - APPROVED ADAPTER FITTING
 - GS COUPLING
 - GROUNDING BUSHING
- (15) GROUND ROD
- EDGE OF FOUNDATION, POLE OR SERVICE SUPPORT
- JUNCTION BOX OR 8" DRAIN TILE WITH APPROVED CONCRETE COVER
- CODE SIZE RMC
- TO SERVICE NEUTRAL BUS

- (TYP. ALL NON-METALLIC CONDUIT TERMINATIONS)
- CODE SIZED PVC
- HIGH-DENSITY POLYETHYLENE CONDUIT (HDPE)
- NON-METALLIC CONDUIT (PVC) SCHEDULE 80
- BOX LID(S) GROUND STUD
- CABLE VAULT
- (30) PULL BOX
- ITS CABINET
- EDGE OF FOUNDATION
- TRAFFIC SIGNAL CABINET

- **EQUIPMENT GROUNDING CONDUCTOR CONNECTION POINT IN** CABLE VAULT OR PULL BOX BETWEEN SEPERATE SERVICES
- DETECTABLE UNDERGROUND WARNING TAPE. COIL 2' INSIDE CABINET, CABLE VAULT, OR PULL BOX
- TRANSFORMER CABINET
- GROUNDING CONDUCTOR NON-INSULATED (FROM REINFORCING CAGE)
- **BOX FRAME BONDING ATTACHMENT POINT**
- GROUND LUG WELDED TO CABINET WALL (W/ TINNED COPPER BUSS)
- CABINET MAIN BONDING JUMPER
- ITS CAMERA, RAMP METER, TRAFFIC DATA STATION, HIGHWAY ADVISORY RADIO
- 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.
- Service ground per serving utility requirement. If the utility uses aluminum service conductors, an approved Al-Cu pressuretype 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).

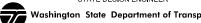


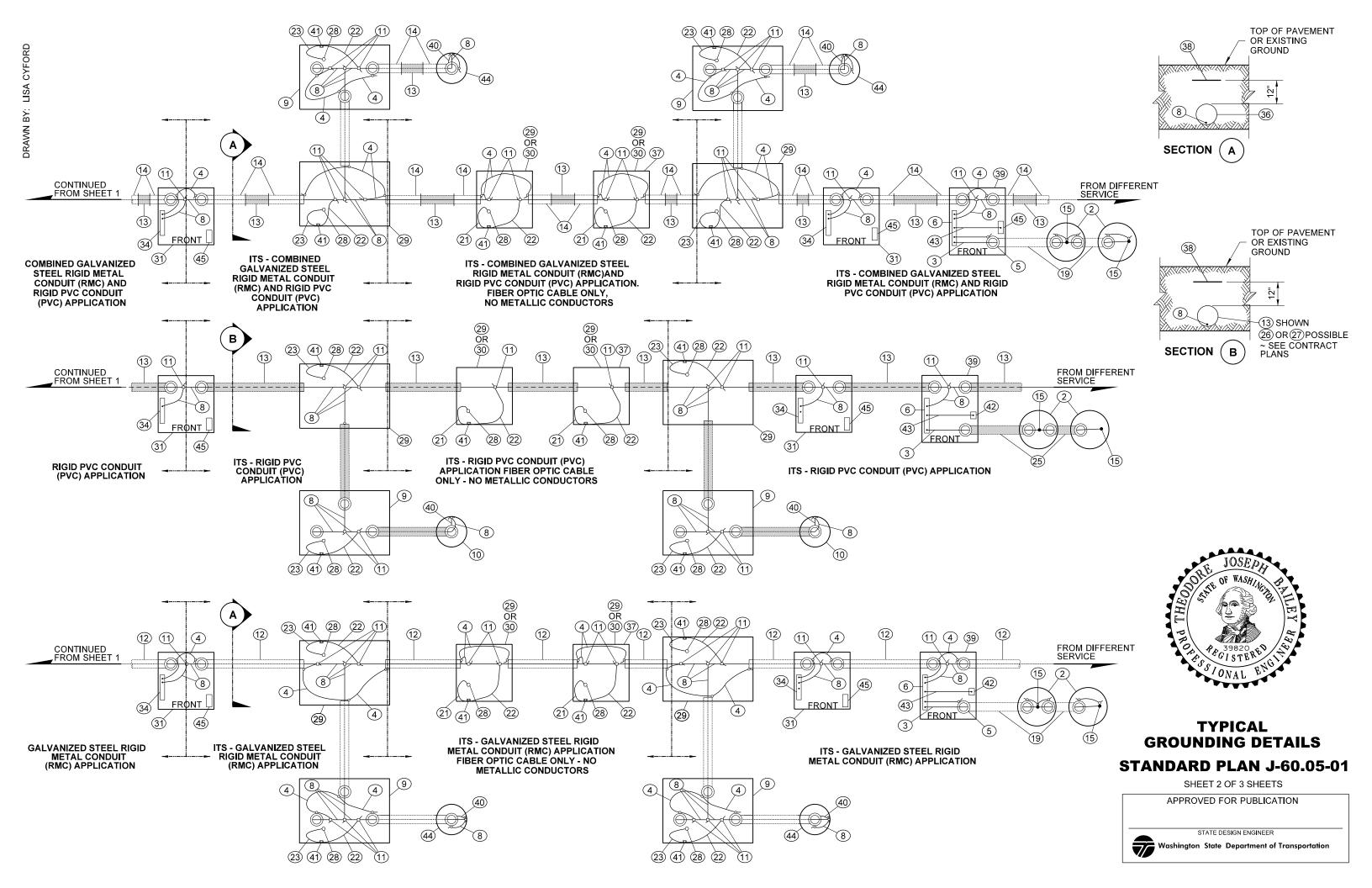
TYPICAL GROUNDING DETAILS STANDARD PLAN J-60.05-01

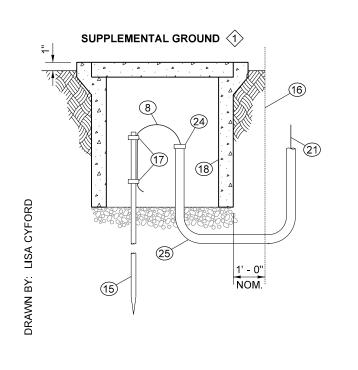
SHEET 1 OF 3 SHEETS

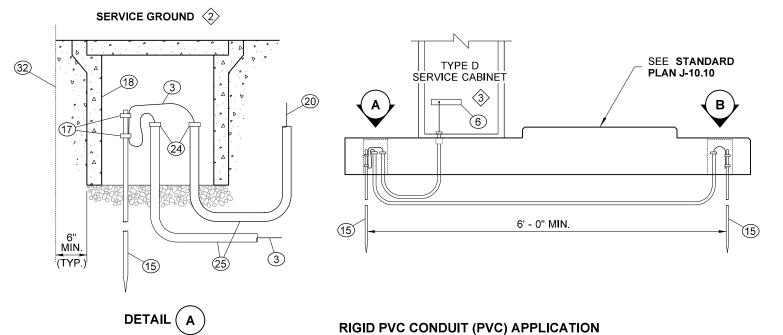
APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER

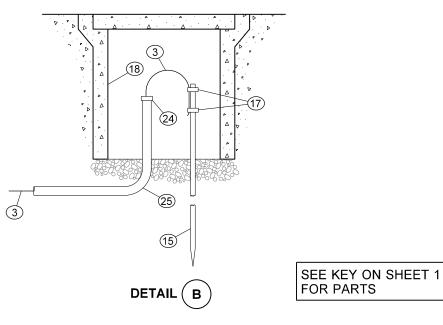








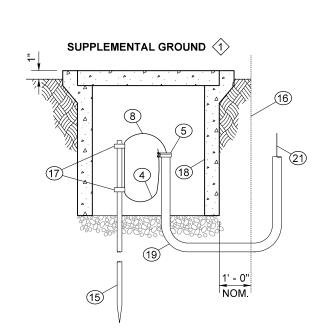
RIGID PVC CONDUIT (PVC) APPLICATION

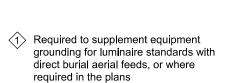


STATE DESIGN ENGINEER

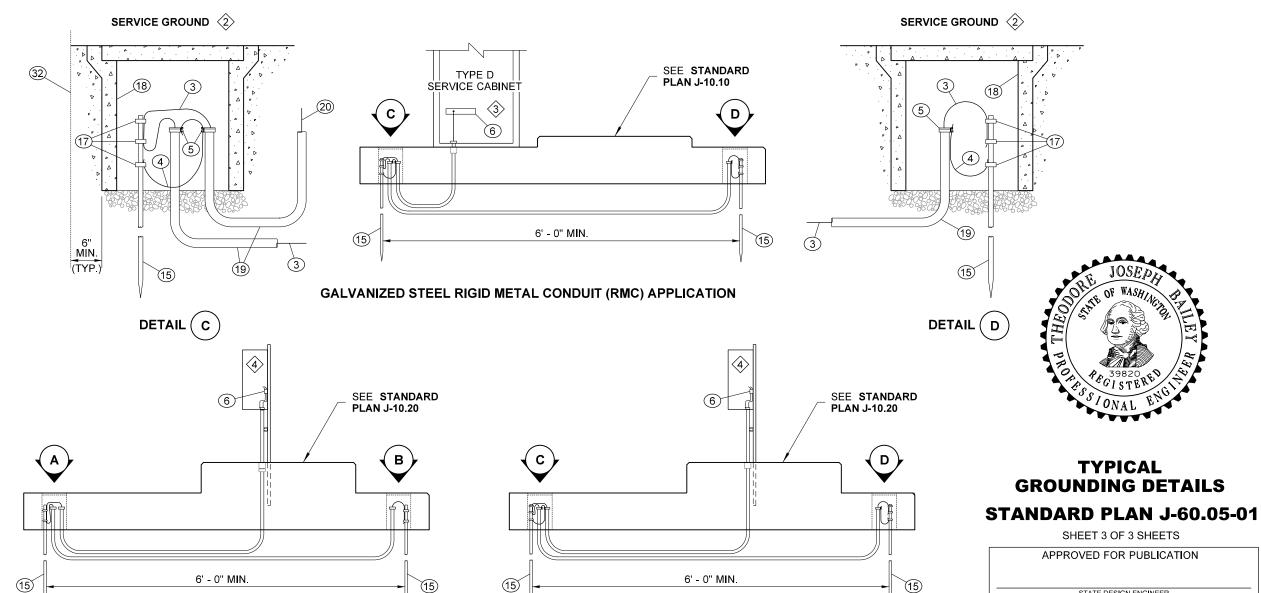
Washington State Department of Transportation

SERVICE GROUND ②





- Required at all service and separately derived systems
- 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
- Grounding electrode conductor and equipment grounding conductor shall not be routed through lug on grounding bushing.



GALVANIZED STEEL RIGID METAL CONDUIT (RMC) APPLICATION