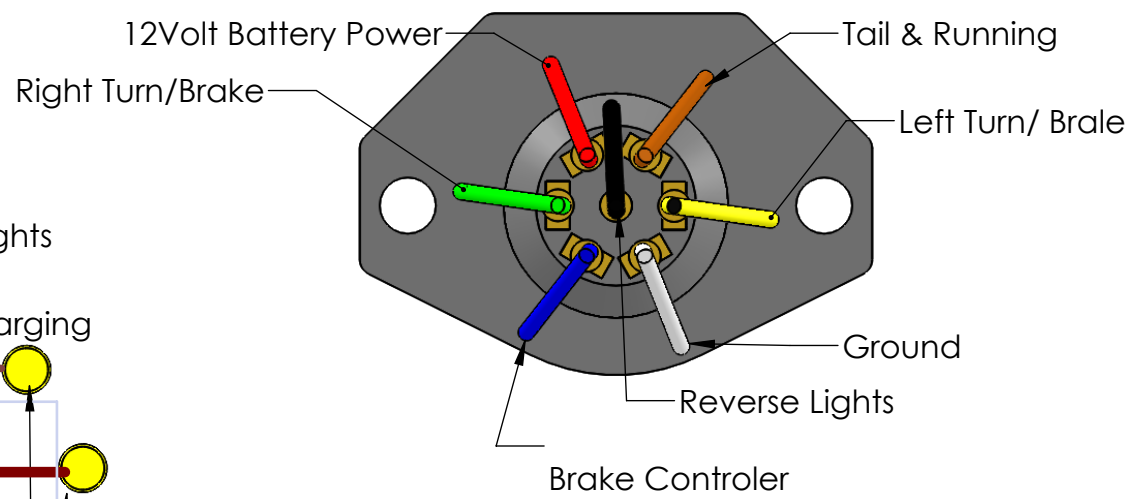
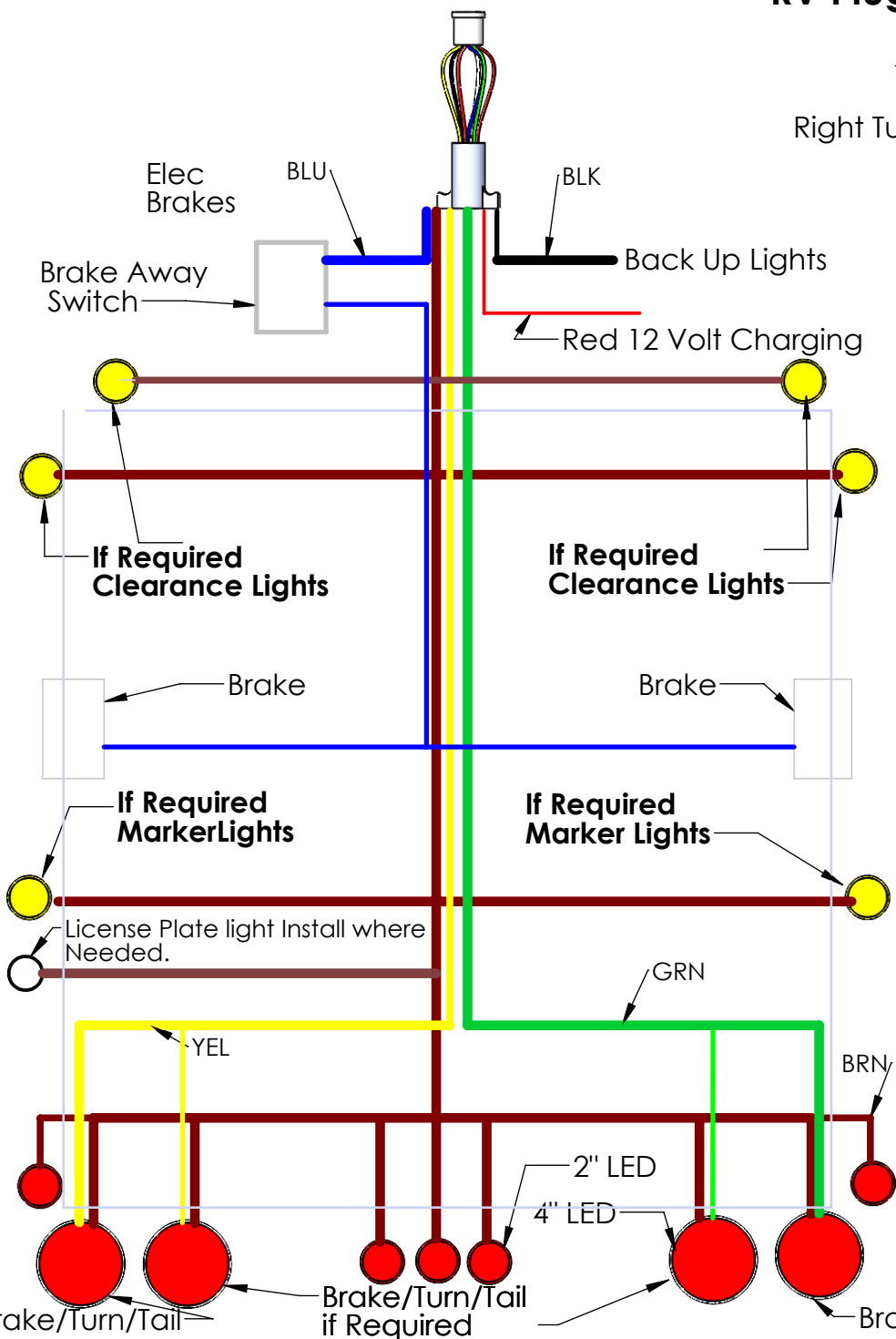


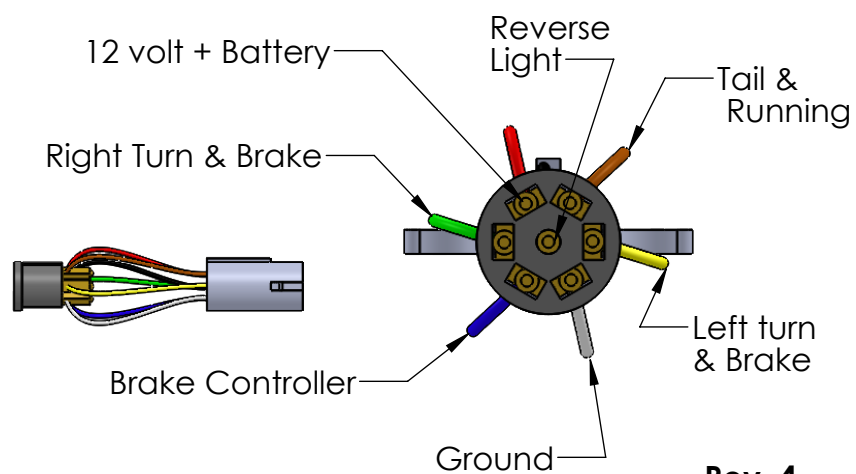


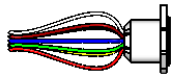
MnDOT Light Duty Trailer Lighting & Wiring Standard RV Plug



Light Duty - Elec Brakes

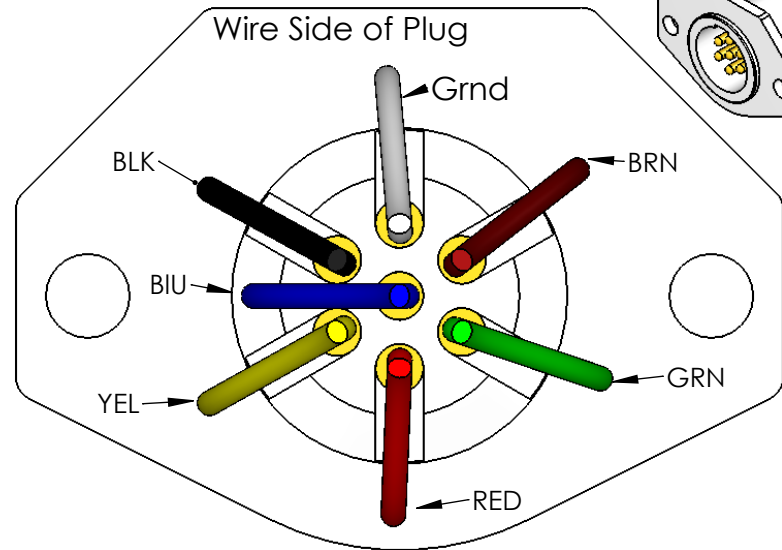
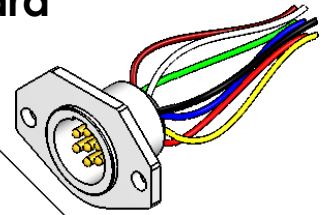
- White- Ground
- Brown- All Marker, Clearance, License plate and tail lights
- Green- Right brake, turn
- Yellow- Left brake, turn
- Red - 12 Volt Charging
- Blue - Electric Brakes if trailer is equipped
- Black - Back up lights if trailer is equipped, not required





Pin Side of Plug

MnDOT Trailer Lighting & Wiring Standard



All Trucks and trailers

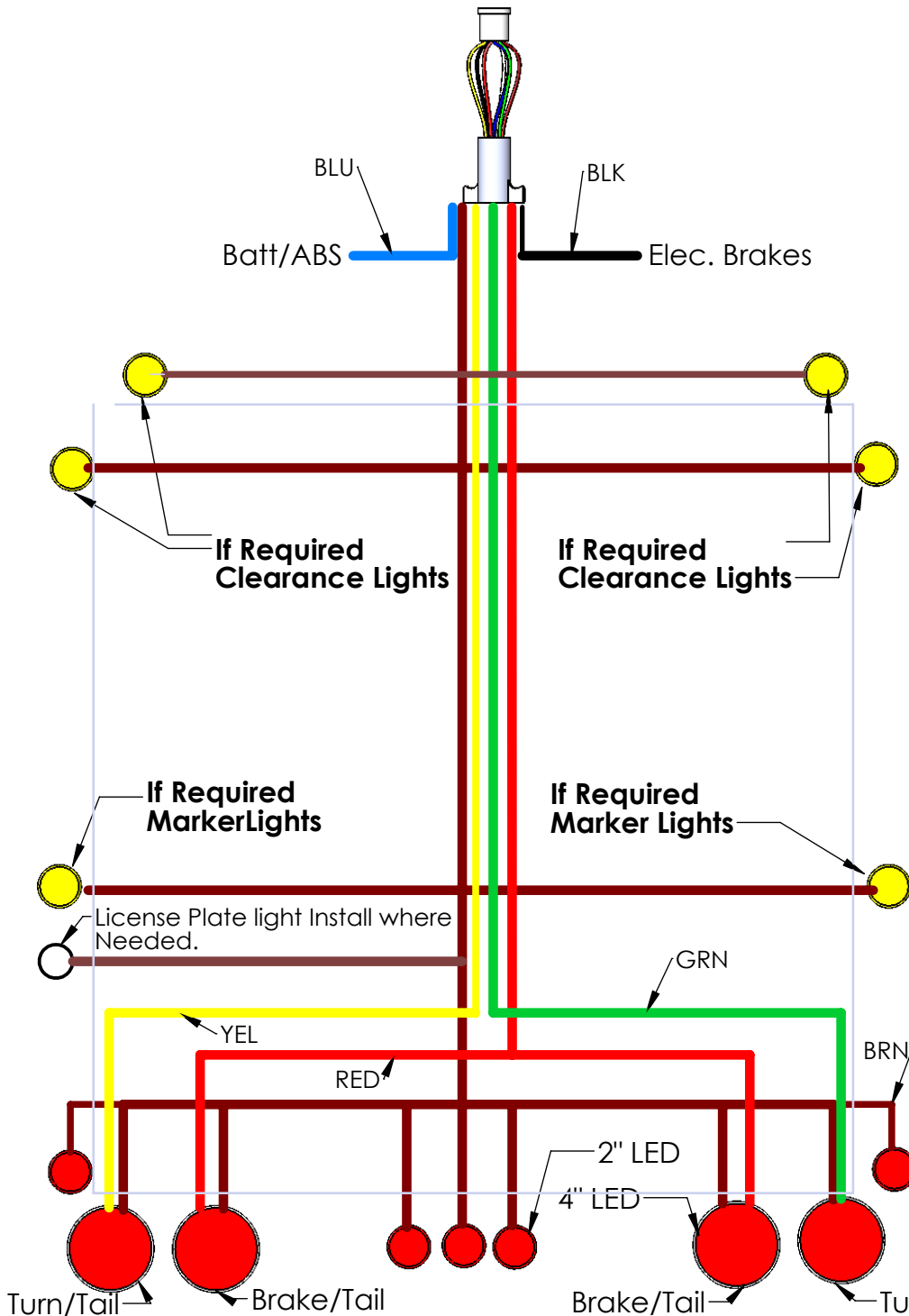
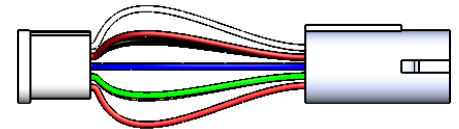
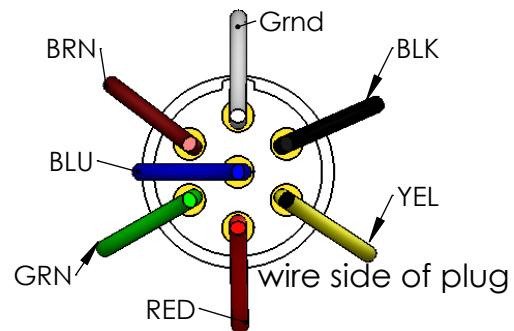
White- Ground
 Brown- All Marker, Clearance, License plate and tail lights
 Green- Right Turn & possibly brake also
 Yellow- Left Turn & possibly brake also
 Red - Brake

Light Duty Tow Vehicles

Black - Elec Brakes
 Blue - Ignition Controlled Battery Feed

Heavy duty Tow vehicle and trailers - Air brakes

Black - Electric Brakes
 Blue - Trailer ABS Power (Ign controlled battery feed)



Trailer Wiring Specifications

MnDOT will only purchase trailers that meet the following lighting and wiring specifications (Reference Drawing):

- Trailer shall meet or exceed all current Federal Motor Carrier Safety Regulations 393.9 thru 393.33.
- Trailer cord plug shall meet SAE spec. J560 and be wired directly to trailer cord with no adaptors.
- Plug to be wired as follows (no other plug wiring will be accepted):

White – Ground return to towing vehicle

Black – Electric brake controller – or not utilized if trailer has air, hydraulic or no brakes

Yellow – Left turn signal and on some light duty tow vehicles, stop/ hazard lamps

Red – Stop lamps and antilock device

Green – Right turn signal and on some light duty tow vehicles, stop/hazard lamps

Brown – Clearance, marker, license plate and tail lights

Blue – If air Brake – Continuous ABS power- If electric Brake – Ign. controlled B+ for break-away battery charge maintenance circuit

- **No adaptors will be accepted.**

- Trailer cord to be wired to a weatherproof, 7-terminal junction block (Waytek part #47290 or approved equal).

- All trailer light wiring (including ground wiring) must be routed to junction block.

- Wire splices will be done with heat shrink butt connectors or soldered with heat-shrink.

- No wire nuts, closed end connectors or self-stripping displacement connectors (i.e. Scotch Loks).

- **All lights to be LED.** There shall be individual brake (2 ea.) and turn signal lights (2 ea.) for a total of 4 lights. These lights shall be 4" round lights in rubber grommets or 3"x7" oval Lights in rubber grommets. Clearance and marker lights shall be 2" round lights in rubber grommets or a MnDOT approved equal.