

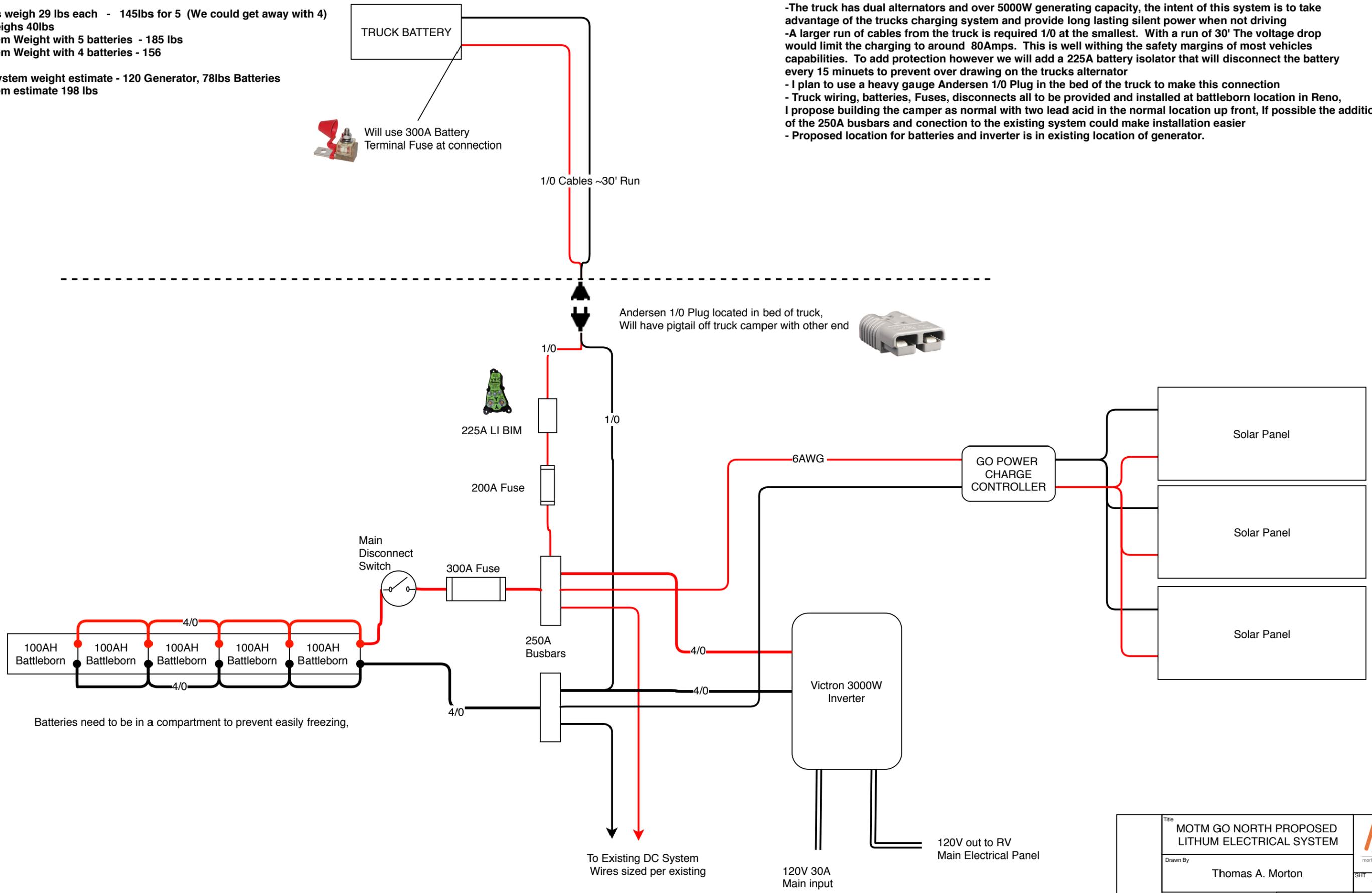
**Weight Information**

Li batteries weigh 29 lbs each - 145lbs for 5 (We could get away with 4)  
 Inverter weighs 40lbs  
 Total System Weight with 5 batteries - 185 lbs  
 Total System Weight with 4 batteries - 156

Existing System weight estimate - 120 Generator, 78lbs Batteries  
 Total System estimate 198 lbs

**Notes:**

- The truck has dual alternators and over 5000W generating capacity, the intent of this system is to take advantage of the trucks charging system and provide long lasting silent power when not driving
- A larger run of cables from the truck is required 1/0 at the smallest. With a run of 30' The voltage drop would limit the charging to around 80Amps. This is well within the safety margins of most vehicles capabilities. To add protection however we will add a 225A battery isolator that will disconnect the battery every 15 minutes to prevent over drawing on the trucks alternator
- I plan to use a heavy gauge Andersen 1/0 Plug in the bed of the truck to make this connection
- Truck wiring, batteries, Fuses, disconnects all to be provided and installed at battleborn location in Reno, I propose building the camper as normal with two lead acid in the normal location up front, If possible the addition of the 250A busbars and connection to the existing system could make installation easier
- Proposed location for batteries and inverter is in existing location of generator.



Batteries need to be in a compartment to prevent easily freezing,

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| Title<br>MOTM GO NORTH PROPOSED LITHIUM ELECTRICAL SYSTEM |               | <br>mortons on the move |
| Drawn By<br>Thomas A. Morton                              | SHT<br>1 of 1 |  |
| Date<br>3-27-19   | REV<br>1      |  |