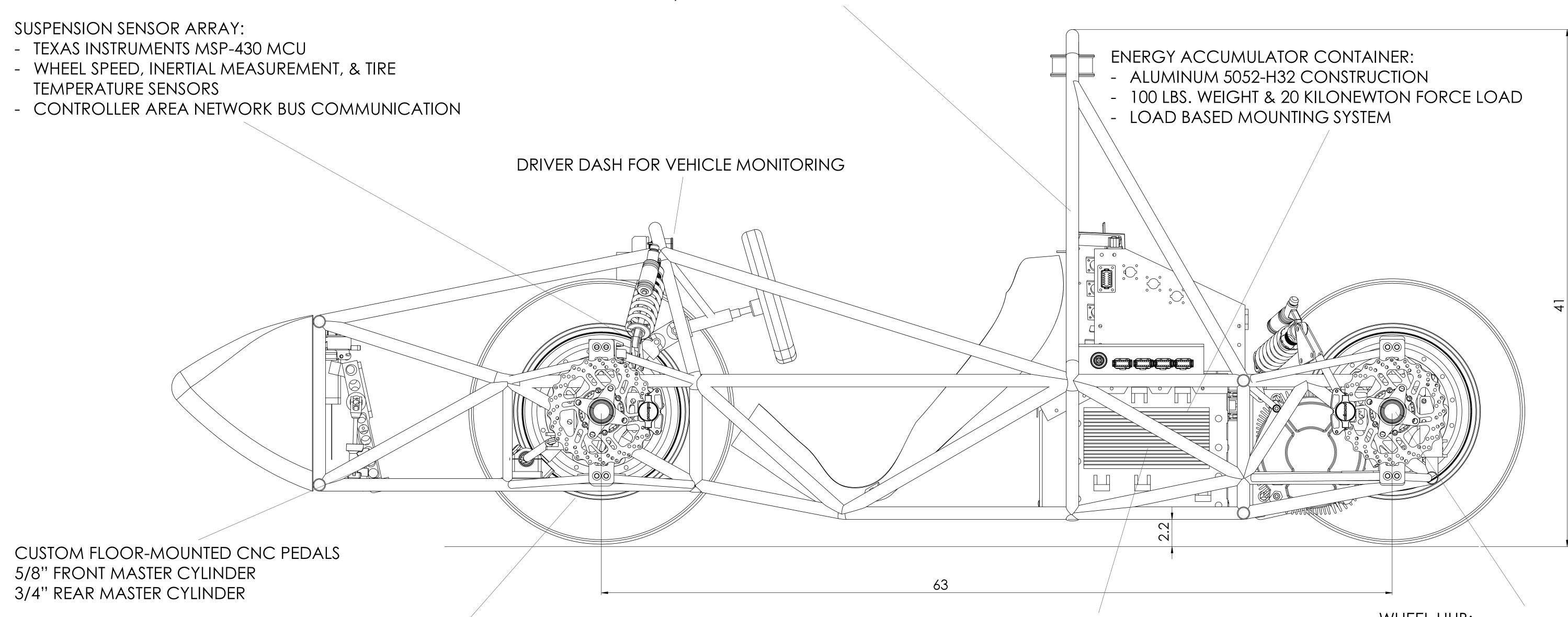
CHASSIS:

- DRAWN OVER MANDREL SPACEFRAME STEEL CONSTRUCTION
- 2300 LB-FT/DEGREE TORSIONAL RIGIDITY



HIGH VOLTAGE SYSTEM:

- 18650 LITHIUM ION CELLS

- PASSIVE AND ACTIVE CELL BALANCING BATTERY

MANAGEMENT SYSTEM WITH CUSTOM FUSE BOARDS

GENERAL VEHICLE SPECIFICATION:

WEIGHT 550 LBS. DRY, 55% REAR BIAS

ENERGY ACCUMULATOR 96V @ 400 AMP MAX DISCHARGE, 5.6 KWH CAPACITY

TORQUE RATING 120 NM COMBINED WITH TORQUE VECTORING ALGORITHM

SUSPENSION 550 LB-IN SPRINGS WITH ADJUSTABLE DAMPERS, CAMBER AND TOE

13" X 7" ALUMINUM RACING WHEELS

PERFORMANCE METRICS:

ACCELERATION 0-60 MPH IN 4.5 SECONDS SKIDPAD TIME 50 FT RADIUS 5.81 SECONDS AT 1.5G

60 MPH BRAKING DISTANCE 68 FEET TURNING RADIUS 14 FEET

WHEEL HUB:

- WILWOOD GP200 1/4" BORE CALIPERS
- RCV PERFORMANCE WHEEL HUBS
- BILLET ALUMINUM UPRIGHTS



SIDEVIEW V1.0 ANNOTATED FALL 2019 ANTEATER ELECTRIC RACING
"AMPEATER 2020"

SCALE: 1:5, DIMENSIONS IN INCHES

UC Irvine Senior Design Projects