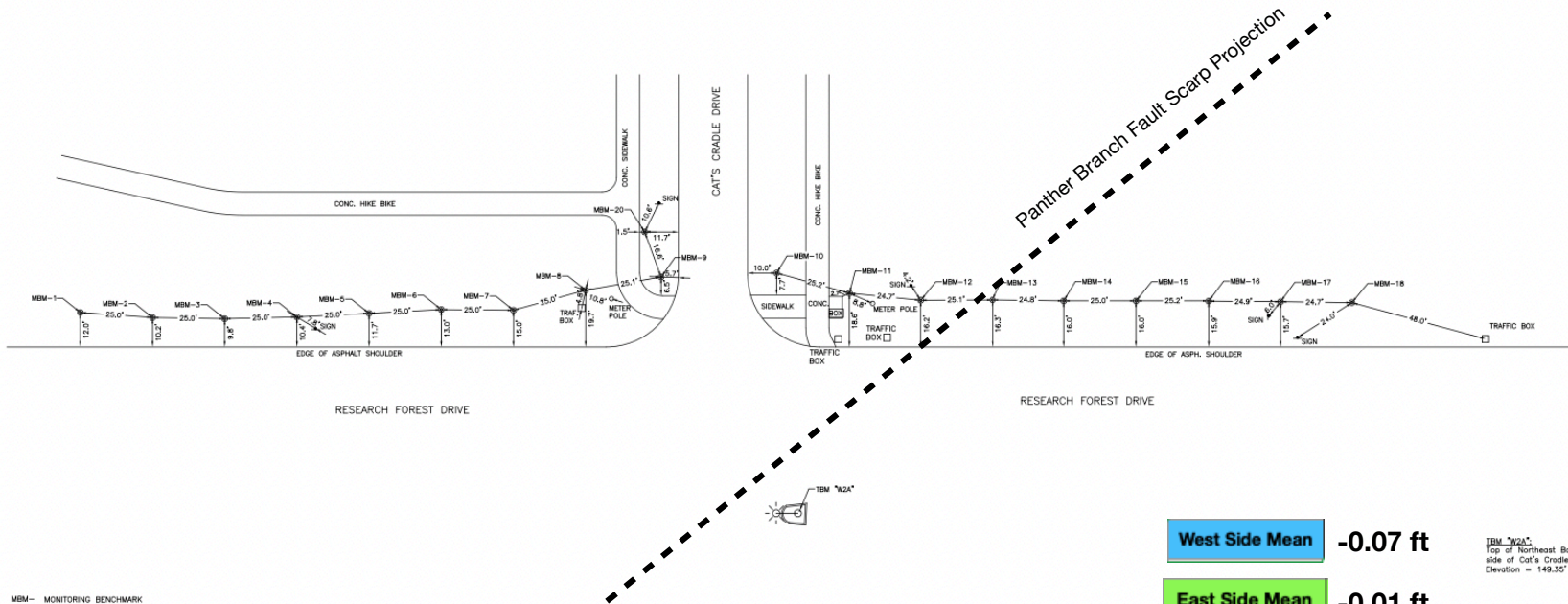
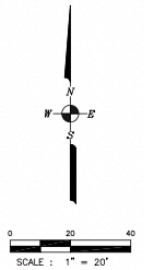


Results from the 15th Remeasure of W2A fault survey Sept, 2022



West Side Mean -0.07 ft
East Side Mean -0.01 ft

MBM- MONITORING BENCHMARK
 ① 1/2 INCH IRON ROD 4 FEET LONG
 INSIDE 4 INCH PVC SLEEVE WITH CAP
 COUNTERSINK 4 TO 6 INCHES

Elevation Change Scores on either side of the Panther Branch Fault in feet (to the nearest 0.01 foot)

Point ID	March, 2015	9/15	3/16	9/16	3/17	9/17	3/18	9/18	3/19	9/19	3/20	11/20	3/21	9/21	3/22	9/22
MBM1	142.59	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.07
MBM2	142.80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.03	0.03	0.07
MBM3	143.31	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.04	0.04	0.05	0.07	0.03	0.03	0.08
MBM4	143.35	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.04	0.04	0.05	0.07	0.03	0.03	0.09
MBM5	143.85	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.03	0.03	0.04	0.02	0.02	0.08
MBM6	144.14	0.01	0.01	0.01	0.00	0.01	0.01	0.02	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.07
MBM7	144.29	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.06
MBM8	145.20	0.02	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.03	0.03	0.03	0.03	0.04	0.04	0.08
MBM20	145.86	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.02	0.03	0.03	0.03	0.04	0.07
MBM-9	145.51	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.06
MBM11	146.16	0.02	0.01	0.01	0.01	0.02	0.02	0.04	0.02	0.04	0.03	0.04	0.04	0.05	0.05	0.07
MBM12	145.42	0.01	0.00	0.01	0.00	0.01	0.01	0.02	0.01	0.03	0.02	0.04	0.04	0.02	0.02	0.06
West Side Mean	144.37	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.03	0.03	0.03	0.04	0.03	0.03	0.07
Fault Scarp between Monuments MBM12 and MBM13																
MBM13	145.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
MBM14	144.99	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.02
MBM15	144.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MBM16	144.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
MBM17	144.79	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01
MBM18	144.55	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01
East Side Mean	144.82	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01

TBM "W2A":
 Top of Northeast Bolt on Signal Light Pole at the centerline of median on the East side of Cat's Cradle Drive and the centerline of Research Forest Drive.
 Elevation = 149.35' (SJRA Project Vertical Control Datum)

NOTES:
 1. All elevations are referenced to the SJRA Groundwater Reduction Plan Project Vertical Control Datum, Project Benchmark: SJRA Benchmark No. 5, Elevation = 212.00 feet.

The average elevation change West of the Scarp is -0.07 feet
0.07 foot = 0.84 inch

Allowable Movement
 0.04" of horizontal movement per year, for 20 years
 1" in total