



Mn/DOT Name: FAIR

NGS Name: FAIR

County: ITASCA, MN (Sheet 1)

				<u>Reference</u>	<u>Reference</u>	<u>Vert</u>	<u>Horz</u>	NGS ACRN: DM8354	Get Map
<u>1/4</u>	<u>Sec</u>	<u>Twp</u>	<u>Rng</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Order</u>	<u>Order</u>	NGS Quad / Sta Num : 47093321/	
NW	16	55 N	25 W	471450.12	933124.82	2	C	USGS Quad: GRAND RAPIDS	

<u>Year Set</u>	<u>Last Recovery</u>	<u>Condition</u>	<u>Geodetic Usability</u>	<u>Photos</u>	<u>Bridge Num</u>	<u>F/P/R</u>	<u>Magnetic Properties</u>
1900	2021	GOOD	Horz=YES Vert=YES	YES		FLUSH	BAR MAG IN DRILL HOLE

<u>Monument Type</u>	<u>Disk Type</u>	<u>Mon. Agency</u>
CONCRETE MONUMENT (CAST-IN-PLACE)	MAGNETIC STATION DISK	NGS

Description: (2008)

Stamping: FAIR

IN GRAND RAPIDS AT THE FAIRGROUNDS, 0.6 MILE NORTH ALONG TRUNK HIGHWAY 38 FROM THE JUNCTION OF TRUNK HIGHWAY 38 AND TRUNK HIGHWAY 2 IN GRAND RAPIDS TO TRUNK HIGHWAY 38 MILEPOINT 0.6, THEN 0.55 MILE EAST ON CRYSTAL LAKE BOULEVARD, THEN 0.05 MILE EAST ON RIDGEWOOD ROAD, THEN 0.1 MILE NORTH ON FAIRGROUNDS ROAD, 208.0 FEET WEST OF FAIRGROUNDS ROAD, 185.0 FEET WEST-NORTHWEST OF A POWER POLE, 88.5 FEET WEST OF CRYSTAL LAKE ROAD, 223.0 FEET WEST-SOUTHWEST OF A POWER POLE, 67.0 FEET EAST OF A WITNESS POST (NO PARKING ANYTIME SIGNPOST).

Station Notes

THIS STATION IS NO LONGER NEEDED BY THE UNITED STATES GEOLOGICAL SURVEY. ALAN BERARDUCCI, OF THE UNITED STATES GEOLOGICAL SURVEY SAYS: THE GEOMAGNETISM PROGRAM HAS NO INTEREST IN USING THIS STATION AGAIN. WE HAVE A REPORT FROM 1945 THAT SAYS THERE WAS TOO MUCH 'MAGNETIC STUFF' IN THE AREA FOR USE AS A MAGNETIC STATION ANYMORE, THOUGH IT WAS USED BEFORE THEN SEVERAL TIMES. FEB 27, 2007.

GRAVITY VALUE: G=980 694.90 +/-0.6 MGAL (NOAA 07-01-1973).

Leveling-Derived Orthometric Heights (Feet)

NAVD88			Ellipsoid (NAD83)			Project Info		
<u>Height</u>	<u>Acc</u>	<u>Order (/Class)</u>	<u>Height</u>	<u>Acc</u>	<u>Adj</u>	<u>Determination Method</u>	<u>Year</u>	<u>Reference</u>
1298.560	.016	2/1				VERTICAL ADJUSTMENT	2021	00000963

Non Leveling-Derived Orthometric and Ellipsoid Heights (Feet)

NAVD88			Ellipsoid (NAD83)			Project Info		
<u>Height</u>	<u>Acc</u>	<u>Order (/Class)</u>	<u>Height</u>	<u>Acc</u>	<u>Adj</u>	<u>Determination Method</u>	<u>Year</u>	<u>Reference</u>
1298.508	.262		1202.192	.197	2011	GPS - OPUS	2022	GPSBM
1298.534	.262		1202.219	.197	2011	GPS - RTRN	2021	RTRN2021
1298.432	.262		1202.140	.197	2011	GPS - RTRN	2017	RTRN2017
			1202.196	.007	2011	HORIZONTAL ADJUSTMENT	2012	GPS2800
1298.488	.131		1202.291	.066	2007	HORIZONTAL ADJUSTMENT	2011	GPS2802
1298.488	.131		1202.291	.066	2007	GPS - STATIC	2010	HASCA
1298.521	.131		1202.324	.066	1996	GPS - STATIC	2010	HASCA

Geoid Separations(ft): GEOID18 = -96.315 12B = -96.292 09 = -96.204 03 = -96.178

Lat/Lon and County Coordinates (Feet)

NAD83(2011)		Itasca County - South Zone		Project Info		
<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>	<u>Determination Method</u>
47 14 50.11814	93 31 24.81784	552105.318	180634.542	.131	3	GPS - OPUS
47 14 50.11870	93 31 24.81770	552105.328	180634.599	.131	3	GPS - RTRN
47 14 50.11889	93 31 24.81806	552105.303	180634.618	.131	3	GPS - RTRN
47 14 50.11881	93 31 24.81740	552105.349	180634.610	.007		ADJUSTMENT
NAD83(2007)		Itasca County - South Zone		Project Info		
<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>	<u>Determination Method</u>
47 14 50.11851	93 31 24.81820	552105.293	180634.579	.033	C	ADJUSTMENT
47 14 50.11851	93 31 24.81820	552105.293	180634.579	.033	C	GPS - STATIC
NAD83(1996)		Itasca County - South Zone		Project Info		
<u>Latitude</u>	<u>Longitude</u>	<u>X</u>	<u>Y</u>	<u>Acc</u>	<u>Order</u>	<u>Determination Method</u>
47 14 50.11881	93 31 24.81788	552105.315	180634.610	.033	C	GPS - STATIC

State Plane and UTM Coordinates (Feet)

NAD83(2011)

MN State Plane - North Zone		UTM - Zone 15		Acc	Order	Determination Method	Project Info	
<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				<u>Year</u>	<u>Reference</u>
2519470.669	600927.523	1510430.220	17167859.972	.131	3	GPS - OPUS	2022	GPSBM
2519470.680	600927.580	1510430.230	17167860.029	.131	3	GPS - RTRN	2021	RTRN2021
2519470.655	600927.599	1510430.206	17167860.048	.131	3	GPS - RTRN	2017	RTRN2017
2519470.700	600927.591	1510430.251	17167860.040	.007		ADJUSTMENT	2012	GPS2800

NAD83(2007)

MN State Plane - North Zone		UTM - Zone 15		Acc	Order	Determination Method	Project Info	
<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				<u>Year</u>	<u>Reference</u>
2519470.645	600927.561	1510430.196	17167860.010	.033	C	ADJUSTMENT	2011	GPS2802
2519470.645	600927.561	1510430.196	17167860.010	.033	C	GPS - STATIC	2010	HASCA

NAD83(1996)

MN State Plane - North Zone		UTM - Zone 15		Acc	Order	Determination Method	Project Info	
<u>X</u>	<u>Y</u>	<u>X</u>	<u>Y</u>				<u>Year</u>	<u>Reference</u>
2519470.667	600927.591	1510430.218	17167860.040	.033	C	GPS - STATIC	2010	HASCA

Station Photos

<u>Type</u>	<u>File Name</u>	<u>Dir</u>	<u>Date</u>
Location:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/itasca/FAIR-DM8354-3W-16NOV2021.jpg	W	Nov 16, 2021
Monument:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/itasca/FAIR-DM8354-2-16NOV2021.jpg		Nov 16, 2021
Disk:	https://www.olmweb.dot.state.mn.us/geod/StationPhotos/itasca/FAIR-DM8354-1-16NOV2021.jpg		Nov 16, 2021

** All station images can be viewed at: <ftp://ftp.olmweb.dot.state.mn.us/geod/StationPhotos> **