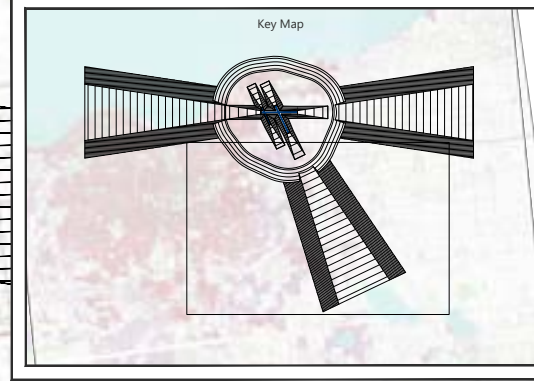
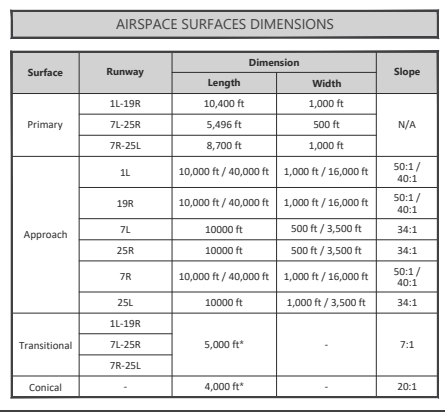
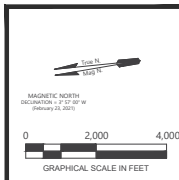


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AIRPORT AIRSPACE DRAWING
SHEET 3 OF 3

[illegible]

DRAWN BY: SN / JMJ
CHECKED BY: DGR
September 2022
Sheet 12 of 35

NOTES:

- 1/ Obstruction Table on Sheets 13-14.
- 2/ Elevations are in feet above Mean Sea Level (MSL).
- 3/ Milwaukee County imposes a Height Limit Zoning Ordinance (HLZO) under Chapter 84 of the Milwaukee County Code of Ordinances.
- 4/ Runway Centerline profiles shown on Sheets 8 and 9.
- 5/ For additional information related to airspace surface, please refer to the Inner Approach Sheets (Sheets 15-18, 20-24, 28 and 28-30).

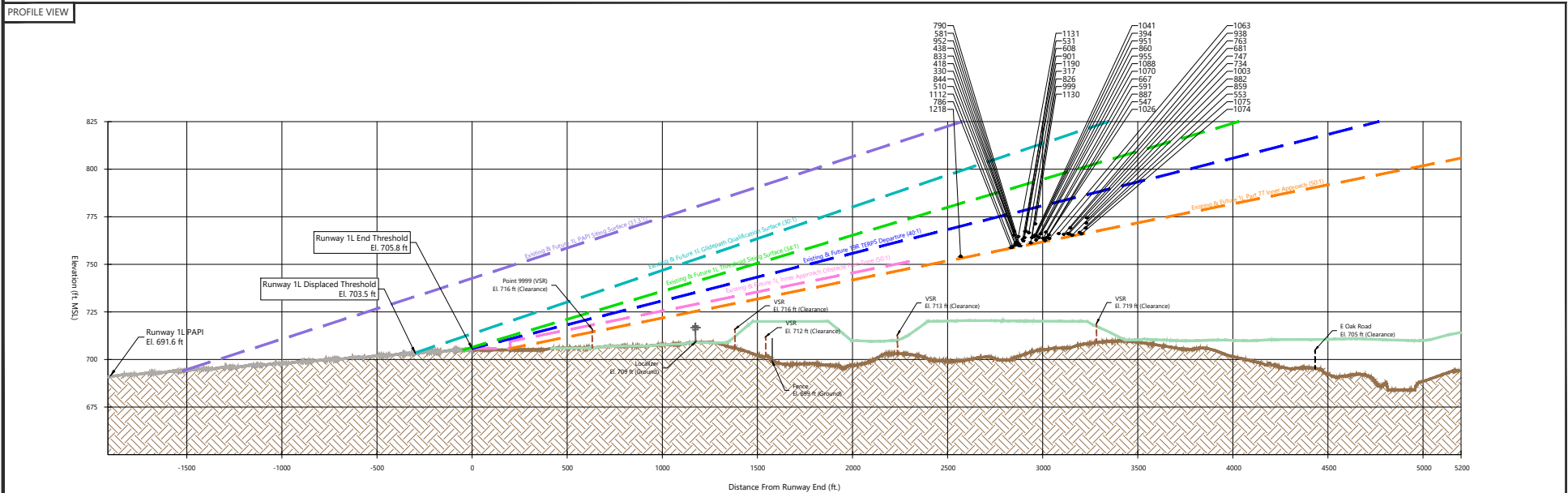
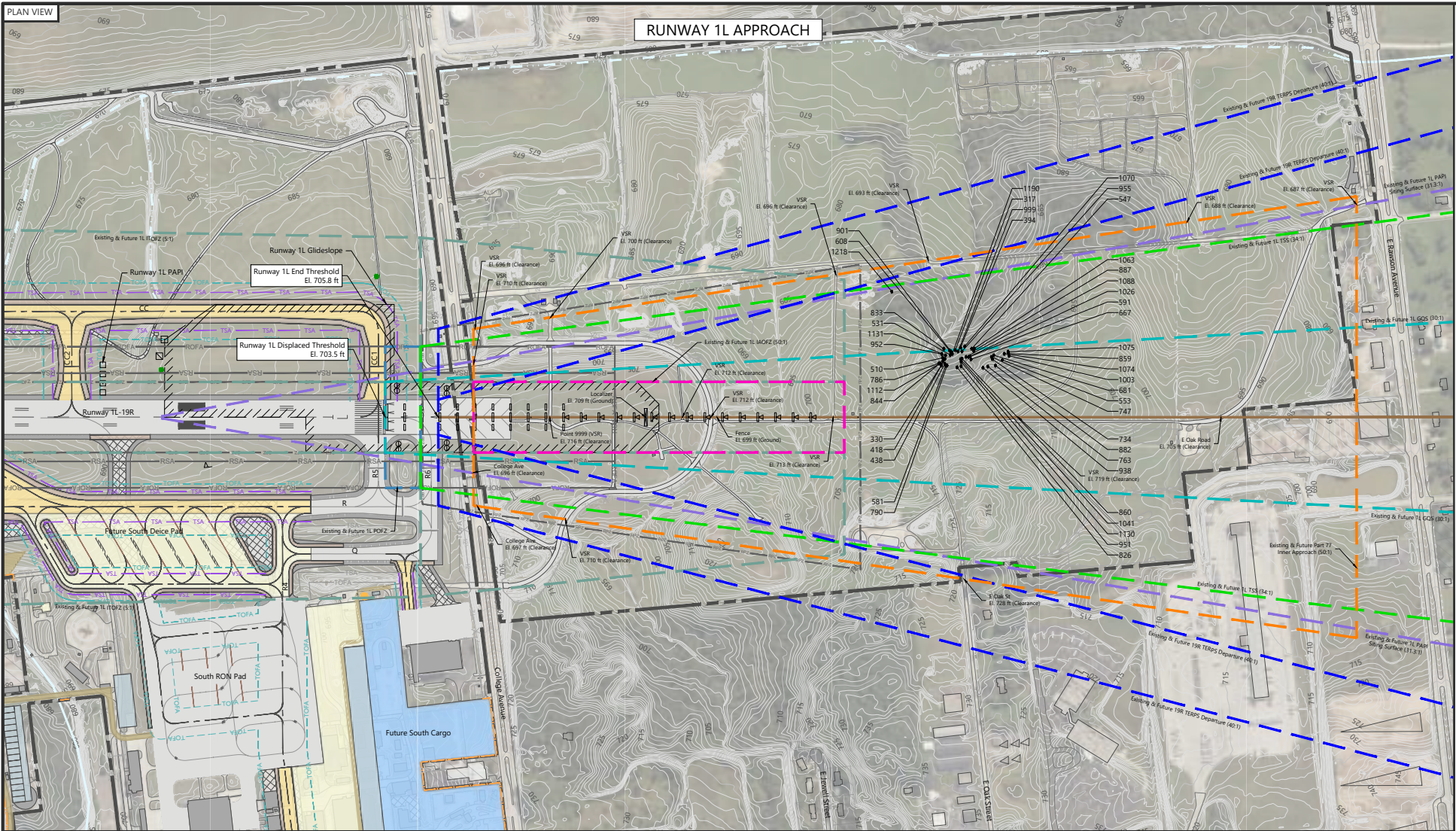
SOURCES:
MKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly (base linework); December 2017; Code of Federal Regulations, *Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace*, July 2010; Martinez Geospatial, March 2019 (obstruction data); USGS Quadrangle Mapping, February 2022 (quad map);
Ricondo & Associates, Inc. April 2021 (airspace assessment).

PREPARED BY:
Ricondo & Associates, Inc.

AIRSPACE OBSTRUCTION TABLE (1 OF 2)

Obstruction Number	Obstruction Type	Northing (ft)	Easting (ft)	Ground Elevation (ft)	Obstruction Elevation (ft)	Max Penetration (ft)	1L-18R Part 77 Primary Surface Penetration (ft)	1L-25R Part 77 Transitional Surface Penetration (ft)	1L-25R Part 77 Primary Surface Penetration (ft)	1L-25R Part 77 Transitional Surface Penetration (ft)	1L Part 77 Outer Approach Surface Penetration (ft)	25R Part 77 Outer Approach Surface Penetration (ft)	76-25L Part 77 Primary Surface Penetration (ft)	76-25L Part 77 Transitional Surface Penetration (ft)	25R Part 77 Outer Approach Surface Penetration (ft)	Part 77 Horizontal Surface Penetration (ft)	Part 77 Central Surface Penetration (ft)	Proposed Disposition
4	TREETOP	343008.082	2320166.922	712.2	787.3	14.56	-	15.0	-	-	-	-	-	-	-	-	-	TRIM
10	TREETOP	343744.230	2320084.234	725.1	824.6	18.15	-	18.1	-	-	-	-	-	-	-	-	-	TRIM
14	TREETOP	338572.094	2320208.947	723.9	781.1	9.50	-	9.5	-	-	-	-	-	-	-	-	-	TRIM
15	TREETOP	343958.169	2320382.631	724.3	828.8	46.68	-	46.7	-	-	-	-	-	-	-	-	-	TRIM
17	TREETOP	343815.148	2320080.244	723.9	815.7	45.39	-	45.4	-	-	-	-	-	-	-	-	-	TRIM
22	TREETOP	359203.159	2321548.799	711.9	770.2	31.37	-	31.4	-	-	-	-	-	-	-	-	-	TRIM
31	TREETOP	344048.179	2320009.786	726.2	838.9	21.89	-	21.9	-	-	-	-	-	-	-	-	-	TRIM
50	TREETOP	344375.122	2320294.879	720.8	780.2	6.05	-	6.0	-	-	-	-	-	-	-	-	-	TRIM
59	TREETOP	343718.887	2320275.683	722.3	796.5	29.89	-	29.9	-	-	-	-	-	-	-	-	-	TRIM
63	TREETOP	358928.497	2325499.486	732.9	796.8	20.98	-	21.0	-	-	-	-	-	-	-	-	-	TRIM
66	TREETOP	343848.712	2320349.075	724.5	829.0	45.22	-	45.2	-	-	-	-	-	-	-	-	-	TRIM
67	TREETOP	344836.186	2321702.039	726.2	771.7	31.78	-	31.8	-	-	-	-	-	-	-	-	-	TRIM
71	TREETOP	345080.374	2320389.134	702.2	793.0	6.85	-	6.9	-	-	-	-	-	-	-	-	-	TRIM
85	TREETOP	359453.713	2325475.106	728.8	786.3	0.28	-	0.3	-	-	-	-	-	-	-	-	-	TRIM
86	TREETOP	358573.241	2321528.825	729.9	781.0	21.91	-	21.9	-	-	-	-	-	-	-	-	-	TRIM
91	TREETOP	344330.721	2320294.235	711.7	786.2	22.45	-	22.6	-	-	-	-	-	-	-	-	-	TRIM
103	TREETOP	352940.086	2321717.934	721.1	781.5	47.21	-	47.3	-	-	-	-	-	-	-	-	-	TRIM
117	TREETOP	344811.109	2320229.015	707.6	799.7	9.38	-	9.4	-	-	-	-	-	-	-	-	-	TRIM
121	TREETOP	343967.230	2320298.086	723.0	807.4	34.41	-	34.4	-	-	-	-	-	-	-	-	-	TRIM
122	TREETOP	358836.791	2321787.825	731.4	793.4	21.51	-	21.5	-	-	-	-	-	-	-	-	-	TRIM
140	TREETOP	359720.309	2321648.017	709.2	769.3	3.05	-	3.1	-	-	-	-	-	-	-	-	-	TRIM
141	GROUND	357950.483	2320621.420	713.1	716.5	4.49	-	4.7	-	-	-	-	-	-	-	-	-	GRADE
158	TREETOP	358873.828	2321640.095	732.5	788.4	21.90	-	21.9	-	-	-	-	-	-	-	-	-	TRIM
165	TREETOP	345740.072	2320235.948	718.5	806.2	2.31	-	2.3	-	-	-	-	-	-	-	-	-	TRIM
168	TREETOP	344640.724	2320291.169	720.0	799.4	15.46	-	15.5	-	-	-	-	-	-	-	-	-	TRIM
175	TREETOP	345991.130	2320800.185	726.9	824.4	6.85	-	6.9	-	-	-	-	-	-	-	-	-	TRIM
179	TREETOP	343879.056	2320924.292	722.6	814.8	7.11	-	7.2	-	-	-	-	-	-	-	-	-	TRIM
189	GROUND	357842.711	2321849.446	712.4	716.5	4.37	-	4.4	-	-	-	-	-	-	-	-	-	GRADE
196	TREETOP	359069.119	2321688.598	711.2	788.0	38.71	-	38.7	-	-	-	-	-	-	-	-	-	TRIM
204	TREETOP	359104.725	2321617.696	716.7	770.8	7.26	-	7.3	-	-	-	-	-	-	-	-	-	TRIM
220	TREETOP	344026.839	2320001.688	726.4	761.9	26.38	-	26.5	-	-	-	-	-	-	-	-	-	TRIM
225	TREETOP	343121.453	2320118.058	724.5	787.2	17.27	-	17.3	-	-	-	-	-	-	-	-	-	TRIM
236	TREETOP	359111.851	2321513.861	732.7	795.9	19.77	-	19.8	-	-	-	-	-	-	-	-	-	TRIM
247	TREETOP	358082.624	2320440.890	717.0	740.4	3.35	-	3.4	-	-	-	-	-	-	-	-	-	TRIM
250	TREETOP	345769.144	2320383.817	720.0	811.3	1.81	-	1.8	-	-	-	-	-	-	-	-	-	TRIM
261	TREETOP	344805.722	2320347.429	721.7	787.9	12.86	-	12.9	-	-	-	-	-	-	-	-	-	TRIM
263	TREETOP	359354.409	2320825.786	722.2	760.8	24.02	-	24.0	-	-	-	-	-	-	-	-	-	TRIM
266	TREETOP	358862.445	2321769.079	728.0	771.8	35.90	-	35.9	-	-	-	-	-	-	-	-	-	TRIM
271	TREETOP	345764.999	2320290.719	720.4	807.5	5.33	-	5.3	-	-	-	-	-	-	-	-	-	TRIM
464	TREETOP	344570.602	2320293.987	724.6	808.9	9.51	-	9.5	-	-	-	-	-	-	-	-	-	TRIM
477	TREETOP	345603.130	2320291.893	721.4	808.8	3.27	-	3.4	-	-	-	-	-	-	-	-	-	TRIM
508	TREETOP	345550.639	2320111.642	707.0	808.1	3.74	-	3.7	-	-	-	-	-	-	-	-	-	TRIM
584	AIRPORT SIGN	355897.393	2324429.275	672.7	675.7	1.37	-	-	1.4	-	-	-	-	-	-	-	-	FIXED BY FUNCTION
718	GL ANTENNA	347737.051	2320274.817	881.6	748.2	47.96	48.0	-	-	-	-	-	-	-	-	-	-	FIXED BY FUNCTION
849	TAXIWAY PAVEMENT	344283.168	2320987.175	705.1	705.9	0.71	0.7	-	-	-	-	-	-	-	-	-	-	NOA
896	TREETOP	345768.879	2320262.174	726.6	801.2	3.40	-	3.4	-	-	-	-	-	-	-	-	-	TRIM
1037	AIRPORT SIGN	351555.184	2320164.434	671.9	675.0	1.44	1.4	-	-	-	-	-	-	-	-	-	-	FIXED BY FUNCTION
1092	TREETOP	358864.998	2324426.732	733.0	787.0	11.49	-	11.5	-	-	-	-	-	-	-	-	-	TRIM
1135	AIRPORT SIGN	346475.880	2320290.187	703.1	706.5	1.91	2.0	-	-	-	-	-	-	-	-	-	-	FIXED BY FUNCTION
1199	TREETOP	345473.897	2320123.824	701.2	804.0	3.85	-	3.8	-	-	-	-	-	-	-	-	-	TRIM
1203	TREETOP	343632.103	2320902.134	723.9	811.6	24.95	-	25.0	-	-	-	-	-	-	-	-	-	TRIM
1214	TREETOP	358034.056	2321708.534	726.0	750.4	3.00	-	3.0	-	-	-	-	-	-	-	-	-	TRIM
1229	TREETOP	358005.015	2320861.641	725.8	779.6	6.74	-	6.7	-	-	-	-	-	-	-	-	-	TRIM
1230	TREETOP	358056.492	2320321.701	725.0	741.6	6.59	-	6.6	-	-	-	-	-	-	-	-	-	TRIM
1227	TREETOP	358076.982	2321718.980	726.9	793.0	4.98	-	4.1	-	-	-	-	-	-	-	-	-	TRIM
1216	TREETOP	358070.700	2320613.880	726.4	761.2	0.30	-	0.3	-	-	-	-	-	-	-	-	-	TRIM
1246	TREETOP	358002.300	2320829.905	725.5	778.3	13.15	-	13.1	-	-	-	-	-	-	-	-	-	TRIM
1248	TREETOP	357878.719	2320802.481	718.9	771.7	8.52	-	8.5	-	-	-	-	-	-	-	-	-	TRIM
1251	UTILITY POLE	358659.878	2320813.188	735.6	751.1	1.20	-	1.2	-	-	-	-	-	-	-	-	-	MARK/LIGHT
1261	TREETOP	358495.117	2321027.471	726.5	780.0	3.61	-	3.6	-	-	-	-	-	-	-	-	-	TRIM
1271	TREETOP	357787.605	2320883.652	724.7	781.6	12.08	-	12.1	-	-	-	-	-	-	-	-	-	TRIM
1284	TREETOP	358282.442	2321732.831	723.3	748.2	1.22	-	1.2	-	-	-	-	-	-	-	-	-	TRIM
1300	TREETOP	358062.099	2320860.816	716.3	748.1	7.80	-	7.8	-	-	-	-	-	-	-	-	-	TRIM
1305	UTILITY POLE	358270.788	2321703.450	725.1	758.3	2.51	-	2.5	-	-	-	-	-	-	-	-	-	MARK/LIGHT
1309	TREETOP	357973.897	2320808.219	724.1	784.9	3.82	-	3.8	-	-	-	-	-	-	-	-	-	TRIM
1311	TREETOP	357946.868	2320812.690	722.4	775.7	12.13	-	12.1	-	-	-	-	-	-	-	-	-	TRIM
1344	TREETOP	358046.918	2321796.193	726.4	769.7	10.01	-	10.0	-	-	-	-	-	-	-	-	-	TRIM
1362	TREETOP	357747.987	2320849.091	714.9	781.2	13.35	-	13.4	-	-	-	-	-	-	-	-	-	TRIM
1370	TREETOP	357824.197	2320863.327	718.7	788.5	15.82	-	15.8	-	-	-	-	-	-	-	-	-	TRIM
1375	TREETOP	357876.419	2321732.777	726.8	784.4	5.88	-	5.9	-	-	-	-	-	-	-	-	-	TRIM
1389	TREETOP	358069.119	2320817.545	725.9	742.3	5.51	-	5.5	-	-	-	-	-	-	-	-	-	TRIM
1391	RVR	351084.677	2324430.096	689.5	687.2	4.00	-	-	-	-	-	-	4.9	-	-	-	-	FIXED BY FUNCTION
1401	TREETOP	358051.653	2320794.761	726.5	761.1	5.71	-	5.7	-	-	-	-	-	-	-	-	-	TRIM
1404	TREETOP	357855.778	2320802.778	717.6	770.6	7.02	-	7.0	-	-	-	-	-	-	-	-	-	TRIM
1410	TREETOP	357938.486	2321711.899	720.1	781.9	5.87	-	5.9	-	-	-	-	-	-	-	-	-	TRIM
1410	TREETOP	358039.940	2321793.617	726.1	761.6	6.19	-	6.2	-	-	-	-	-	-	-	-	-	TRIM
1424	UTILITY POLE	358759.849	2320823.803	735.1	752.7	0.42	-	0.4	-	-	-	-	-	-	-	-	-	MARK/LIGHT
1435	TREETOP	358338.964	2324037.511	726.5	789.5	0.14	-	0.1	-	-	-	-	-	-	-	-	-	TRIM
1434	TREETOP	358091.991	2320801.992	726.5	781.9	11.38	-	11.6	-	-	-	-	-	-	-	-	-	TRIM
1464	TREETOP	357805.112	2320821.226	707.4	741.5	10.71	-	10.7	-	-	-	-	-	-	-	-	-	TRIM
1481	TREETOP	358051.766	2320875.333	725.9	742.2	0.78	-	0.8	-	-	-	-	-	-	-	-	-	TRIM
1505	WINDSOCK	351480.902	2320908.118	686.2	675.6	1.02	-	-	-	-	-	-	1.0	-	-	-	-	FIXED BY FUNCTION
1516	TREETOP	357870.914	2320806.459	718.6	775.3	11.45	-	11.4	-	-	-	-						

AIRSPACE OBSTRUCTION TABLE (2 OF 2)																		
Obstruction Number	Obstruction Type	Northing (ft)	Eastng (ft)	Ground Elevation (ft)	Obstruction Elevation (ft)	Max Penetration (ft)	1L-25R Part 77 Primary Surface Penetration (ft)	1L-25R Part 77 Transitional Surface Penetration (ft)	1L-25R Part 77 Primary Surface Penetration (ft)	1L-25R Part 77 Transitional Surface Penetration (ft)	1L Part 77 Outer Approach Surface Penetration (ft)	25R Part 77 Outer Approach Surface Penetration (ft)	7R-25L Part 77 Primary Surface Penetration (ft)	7R-25L Part 77 Transitional Surface Penetration (ft)	7R Part 77 Outer Approach Surface Penetration (ft)	Part 77 Horizontal Surface Penetration (ft)	Part 77 Conical Surface Penetration (ft)	Proposed Disposition
1530	TREETOP	357913.799	2533763.759	739.7	770.2	10.22	-	10.2	-	-	-	-	-	-	-	-	-	TRIM
1531	UTILITY POLE	358790.485	2533819.146	751.9	763.7	1.41	-	1.4	-	-	-	-	-	-	-	-	-	MARK/LIGHT
1537	UTILITY POLE	358410.839	2533794.700	722.8	754.5	2.17	-	2.2	-	-	-	-	-	-	-	-	-	MARK/LIGHT
1553	TREETOP	358223.854	2533766.153	724.7	756.3	5.09	-	5.1	-	-	-	-	-	-	-	-	-	TRIM
1558	TREETOP	357895.058	2533760.264	735.9	765.9	8.89	-	8.9	-	-	-	-	-	-	-	-	-	TRIM
1563	OL	358832.058	2533817.385	738.7	749.9	17.75	-	17.7	-	-	-	-	-	-	-	-	-	FIXED BY FUNCTION
1566	TREETOP	357979.878	2533815.388	724.1	761.8	5.21	-	5.3	-	-	-	-	-	-	-	-	-	TRIM
1567	TREETOP	358099.783	2533850.175	726.0	769.7	17.52	-	17.5	-	-	-	-	-	-	-	-	-	TRIM
1569	TREETOP	357938.864	2533877.397	723.2	768.4	16.52	-	16.5	-	-	-	-	-	-	-	-	-	TRIM
1577	TREETOP	358025.851	2533751.388	738.9	751.1	0.31	-	0.3	-	-	-	-	-	-	-	-	-	TRIM
1596	TREETOP	357166.339	2535075.870	712.4	766.1	11.89	-	-	-	11.8	-	-	-	-	-	-	-	TRIM
1607	LIGHT POLE	357372.370	2536801.079	672.1	701.4	17.66	-	-	-	-	-	-	-	-	-	-	-	MARK/LIGHT
1646	TREETOP	355932.048	2535051.739	705.3	767.2	24.39	-	-	-	-	-	-	-	-	-	-	-	TRIM
1682	TREETOP	357162.165	2535089.252	721.0	768.1	12.05	-	-	-	12.0	-	-	-	-	-	-	-	TRIM
1686	TREETOP	357316.196	2535794.118	739.7	759.7	14.24	-	-	-	14.2	-	-	-	-	-	-	-	TRIM
1705	LIGHT POLE	353234.305	2528443.423	676.2	708.6	3.69	-	-	-	3.7	-	-	-	-	-	-	-	MARK/LIGHT
1717	TREETOP	356832.180	2534651.905	699.8	738.1	15.50	-	-	-	15.5	-	-	-	-	-	-	-	TRIM
1734	TREETOP	357219.055	2535348.352	713.1	753.9	11.11	-	-	-	11.1	-	-	-	-	-	-	-	TRIM
1751	LIGHT POLE	353627.751	2535048.083	673.3	705.5	10.49	-	-	-	10.5	-	-	-	-	-	-	-	MARK/LIGHT
1780	TREETOP	357159.211	2537491.642	708.5	760.2	1.21	-	-	-	-	-	1.2	-	-	-	-	-	TRIM
1822	TREETOP	356976.301	2537381.639	712.9	761.0	1.41	-	-	-	-	-	-	-	-	-	-	-	TRIM
2135	TREETOP	357040.112	2537382.240	713.7	767.8	7.29	-	-	-	7.3	-	-	-	-	-	-	-	TRIM
2614	TREETOP	357118.451	2537474.749	720.3	767.4	3.30	-	-	-	-	-	3.3	-	-	-	-	-	TRIM
2803	TREETOP	353026.846	2525231.526	711.8	761.8	1.95	-	-	-	1.9	-	-	-	-	-	-	-	TRIM
3024	LIGHT POLE	354295.389	2528998.227	671.9	694.2	12.68	-	-	-	12.7	-	-	-	-	-	-	-	MARK/LIGHT
3222	WINDYCK	352542.586	2526821.033	697.5	678.5	5.96	2.0	-	-	-	-	-	-	-	-	-	-	FIXED BY FUNCTION
3250	ANTENNA	352486.546	2526821.035	677.2	691.8	15.44	-	-	-	15.4	-	-	-	-	-	7.4	-	MARK/LIGHT
3236	ANTENNA	352944.094	2526871.977	680.8	696.8	18.20	-	-	-	-	-	-	-	-	-	18.2	-	MARK/LIGHT
3330	TREETOP	353026.720	2525201.857	712.9	761.7	0.91	-	-	-	0.9	-	-	-	-	-	-	-	TRIM
3449	TREETOP	348226.412	2525389.975	739.0	769.8	20.12	-	-	-	-	-	-	-	-	-	20.1	-	TRIM
3489	TREETOP	353336.985	2526344.389	675.4	761.7	1.41	-	-	-	-	-	-	-	-	-	-	-	TRIM
3509	TREETOP	348312.152	2525763.498	733.8	776.7	9.87	-	-	-	-	-	-	-	-	-	9.9	-	TRIM
3713	AIRPORT SIGN	349447.183	2526300.704	723.8	726.7	1.93	-	-	-	-	-	-	1.9	-	-	-	-	FIXED BY FUNCTION
3751	TREETOP	3511808.461	2536834.004	675.4	753.2	8.69	-	-	-	-	-	-	-	8.7	-	-	-	TRIM
3810	TOWER	346842.799	2538812.800	766.0	876.7	0.30	-	-	-	-	-	-	-	-	-	0.3	-	MARK/LIGHT
3819	OL/ANTENNA	349240.186	2527746.496	676.1	796.7	46.97	-	-	-	-	-	-	46.4	-	-	-	-	FIXED BY FUNCTION
4076	TREETOP	353390.156	2534914.778	675.8	760.7	6.12	-	-	-	-	-	-	-	6.1	-	-	-	TRIM
4080	INDUSTRIAL FACILITY/STAGE	352469.716	2541231.153	714.0	824.7	46.30	-	-	-	-	-	-	-	-	-	46.3	24.7	MARK/LIGHT
4089	FLAGPOLE	345552.732	2528805.567	763.4	913.2	34.80	-	-	-	-	-	-	-	-	10.4	34.8	13.2	MARK/LIGHT
4099	TREETOP	348127.988	2526905.156	733.8	768.1	4.79	-	-	-	-	-	-	-	4.8	-	-	-	TRIM
4201	ANTENNA	351031.756	2532015.980	689.0	762.4	20.87	-	3.8	-	-	-	-	20.9	-	-	-	-	MARK/LIGHT
4208	TREETOP	348386.176	2526860.037	707.2	801.3	7.46	-	-	-	-	-	-	-	7.5	-	-	-	TRIM
4218	TREETOP	348054.978	2525323.685	737.0	769.2	7.45	-	-	-	-	-	-	-	7.4	-	-	-	TRIM
4238	WATER TOWER	343408.492	2517879.432	800.8	913.5	35.10	-	-	-	-	-	-	-	-	-	35.1	13.5	MARK/LIGHT
4361	TOWER	346570.388	2543854.119	740.6	887.5	9.10	-	-	-	-	-	-	-	-	-	9.1	-	MARK/LIGHT
4348	AIRPORT SIGN	349484.427	2525886.425	724.1	727.4	0.09	-	-	-	-	-	-	0.1	-	-	-	-	FIXED BY FUNCTION
4398	TREETOP	347939.245	2531017.724	698.8	886.3	23.43	-	-	-	-	-	-	-	-	-	-	-	TRIM
4583	TREETOP	352073.568	2536513.802	674.8	762.4	23.94	-	-	-	-	-	-	-	23.9	-	7.9	-	TRIM
4617	TREETOP	351719.822	2534700.478	676.3	690.2	1.24	-	-	-	-	-	-	-	1.2	-	-	-	TRIM
4633	TREETOP	351697.342	2534711.194	684.1	694.0	1.50	-	-	-	-	-	-	-	1.5	-	-	-	TRIM
4802	TREETOP	351603.001	2534880.320	675.7	707.0	4.01	-	-	-	-	-	-	-	4.0	-	-	-	TRIM
4817	TREETOP	351654.498	2534716.469	675.1	731.5	14.43	-	-	-	-	-	-	-	14.4	-	-	-	TRIM
4883	TREETOP	351673.277	2534703.844	676.7	766.2	7.08	-	-	-	-	-	-	-	7.1	-	-	-	TRIM
4931	UTILITY POLE	351745.872	2534874.620	689.2	695.5	3.65	-	-	-	-	-	-	-	3.7	-	-	-	MARK/LIGHT
4946	TREETOP	351584.147	2534684.925	678.2	716.2	10.48	-	-	-	-	-	-	-	10.5	-	-	-	TRIM
4956	TREETOP	351719.776	2534703.123	683.3	691.8	2.27	-	-	-	-	-	-	-	2.3	-	-	-	TRIM
4989	TREETOP	351624.134	2534751.629	679.1	705.2	0.51	-	-	-	-	-	-	-	0.5	-	-	-	TRIM
4995	RAILROAD	351684.226	2534736.172	685.7	711.0	11.39	-	-	-	-	-	-	-	11.4	-	-	-	MARK/LIGHT
5006	RAILROAD	351626.861	2534708.429	687.8	710.6	6.41	-	-	-	-	-	-	-	6.4	-	-	-	MARK/LIGHT
5105	RAILROAD	351636.852	2534734.305	685.5	711.0	9.21	-	-	-	-	-	-	-	9.2	-	-	-	MARK/LIGHT
5124	TREETOP	351647.800	2534761.102	678.9	717.5	15.56	-	-	-	-	-	-	-	15.6	-	-	-	TRIM
5249	UTILITY POLE	351750.419	2534813.898	689.2	691.2	2.36	-	-	-	-	-	-	-	2.4	-	-	-	MARK/LIGHT
5275	TREETOP	353183.900	2536834.974	681.4	739.8	26.26	-	-	-	-	-	-	-	26.3	-	-	-	TRIM
5291	TREETOP	351624.198	2534779.795	675.9	707.7	1.59	-	-	-	-	-	-	-	1.6	-	-	-	TRIM
5414	TREETOP	351730.322	2534768.127	675.0	707.9	14.55	-	-	-	-	-	-	-	14.6	-	-	-	TRIM
5505	TREETOP	351621.671	2534769.840	675.3	707.6	2.01	-	-	-	-	-	-	-	2.0	-	-	-	TRIM
5709	WATER TOWER	351221.875	2529671.788	733.8	864.2	5.80	-	-	-	-	-	-	-	-	-	5.8	-	MARK/LIGHT
5788	TREETOP	351597.011	2534760.880	675.7	713.6	5.11	-	-	-	-	-	-	-	5.1	-	-	-	TRIM
5825	TREETOP	351701.817	2534701.753	680.8	691.2	1.82	-	-	-	-	-	-	-	1.8	-	-	-	TRIM
5903	TREETOP	351171.992	2534914.296	685.9	739.1	26.43	-	-	-	-	-	-	-	26.4	-	-	-	TRIM
6019	RAILROAD	351650.039	2534717.749	696.9	718.6	11.30	-	-	-	-	-	-	-	11.3	-	-	-	MARK/LIGHT
6096	AIRPORT SIGN	352406.618	2532073.950	676.3	673.7	0.18	-	-	-	0.2	-	-	-	-	-	-	-	FIXED BY FUNCTION
6103	TOWER	354304.905	2532061.438	666.1	717.5	38.29	38.3	-	-	-	-	-	-	-	-	-	-	MARK/LIGHT
6106	RAILROAD	351758.374	2534748.638	686.5	711.2	23.69	-	-	-	-	-	-	-	23.7	-	-	-	MARK/LIGHT
6112	TREETOP	351749.097	2534767.493	682.1	690.0	0.92	-	-	-	-	-	-	-	0.9	-	-	-	TRIM
6204	TREETOP	351395.482	2534746.614	671.7	713.1	2.40	-	-	-	-	-	-	-	2.4	-	-	-	TRIM
6206	TREETOP	351742.167	2534746.418	682.2	692.0	2.08	-	-	-	-	-	-	-	2.1	-	-	-	TRIM
6232	RAILROAD	351723.854	2534743.385	686.9	711.2	20.26	-	-	-	-	-	-	-	20.3	-	-	-	MARK/LIGHT
6237	AIRPORT SIGN	352318.875	2533769.700	668.0	671.1	0.11	-	-	-	-	-	-	0.2	-	-	-	-	FIXED BY FUNCTION
6250	TREETOP	351726.385	2534812.485	689.3	707.9	13.39	-	-	-	-	-	-	-	13.2	-	-	-	TRIM
6255	TREETOP	351755.104	2534701.025	679.7	690.9	3.82	-	-	-	-	-	-	-	3.8	-	-	-	TRIM



SOURCES:
MIKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base linework); Federal Aviation Administration, Advisory Circular 150/5300.13A Airport Design, February 2014; Federal Aviation Administration, Engineering Brief No. 99A, July 2020; Code of Federal Regulations, Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace, July 2010; Milwaukee County, December 2021 (property line); Martinez Geospatial, March 2019 (obstruction data); Ricondo & Associates, Inc. April 2021 (airspace assessment).

PREPARED BY:
Ricondo & Associates, Inc.

RUNWAY 1L OBSTRUCTION TABLE								
Obstruction Number	Obstruction Type	Northing (ft)	Easting (ft)	Ground Elevation (ft)	Obstruction Elevation (ft)	Max Penetration (ft)	Existing & Future 1L Part 77 Inner Approach Surface Penetration (50:1) (ft)	Proposed Disposition
317	TREETOP	343285.561	2531567.923	690.4	766.6	6.2	6.2	TRIM
330	TREETOP	343272.086	2531491.126	692.5	765.4	6.6	6.6	TRIM
394	TREETOP	343254.380	2531579.804	690.3	764.6	3.6	3.6	TRIM
418	TREETOP	343349.410	2531524.181	691.2	760.4	1.2	1.2	TRIM
438	TREETOP	343352.448	2531497.581	692.2	761.3	2.1	2.1	TRIM
510	TREETOP	343360.619	2531532.336	691.1	760.2	1.2	1.2	TRIM
531	TREETOP	343316.769	2531543.885	690.7	762.3	2.5	2.5	TRIM
547	TREETOP	343192.228	2531567.158	692.3	764.0	1.8	1.8	TRIM
553	TREETOP	343025.585	2531486.519	699.0	766.8	1.1	1.1	TRIM
581	TREETOP	343347.718	2531487.690	692.5	760.7	1.4	1.4	TRIM
591	TREETOP	343214.701	2531521.864	693.8	763.7	1.8	1.8	TRIM
608	TREETOP	343318.283	2531570.250	690.2	763.1	3.4	3.4	TRIM
667	TREETOP	343201.885	2531507.415	695.0	766.9	4.7	4.7	TRIM
681	TREETOP	343071.736	2531518.000	697.0	769.2	4.5	4.5	TRIM
734	TREETOP	343082.220	2531496.809	697.6	766.0	1.4	1.4	TRIM
747	TREETOP	343085.431	2531510.999	697.1	766.2	1.7	1.7	TRIM
763	TREETOP	343111.885	2531458.218	698.9	765.8	1.8	1.8	TRIM
786	TREETOP	343385.880	2531503.121	692.3	758.9	0.4	0.4	TRIM
790	TREETOP	343340.663	2531486.528	692.5	759.7	0.3	0.3	TRIM
826	TREETOP	343285.724	2531471.051	693.3	761.3	0.7	0.7	TRIM
833	TREETOP	343348.823	2531581.999	689.9	761.6	2.5	2.5	TRIM
844	TREETOP	343360.774	2531514.922	691.6	760.9	1.9	1.9	TRIM
859	TREETOP	342987.384	2531518.734	698.7	771.8	5.4	5.4	TRIM
860	TREETOP	343252.697	2531517.038	692.6	765.1	4.0	4.0	TRIM
882	TREETOP	343067.946	2531458.673	699.6	765.3	0.4	0.4	TRIM
887	TREETOP	343181.550	2531552.685	693.4	765.5	3.0	3.0	TRIM
901	TREETOP	343309.582	2531561.086	690.4	764.0	4.1	4.1	TRIM
938	TREETOP	343139.351	2531453.316	698.7	766.2	2.7	2.7	TRIM
951	TREETOP	343261.384	2531474.296	694.1	764.9	3.9	3.9	TRIM
952	TREETOP	343363.990	2531553.900	690.6	767.3	8.5	8.5	TRIM
955	TREETOP	343248.347	2531557.724	691.1	762.8	1.7	1.7	TRIM
999	TREETOP	343270.077	2531559.064	690.8	764.1	3.4	3.4	TRIM
1003	TREETOP	342985.621	2531505.772	699.1	774.5	8.0	8.0	TRIM
1026	TREETOP	343204.827	2531524.630	693.9	762.5	0.4	0.4	TRIM
1041	TREETOP	343260.914	2531513.868	692.4	765.2	4.2	4.2	TRIM
1063	TREETOP	343177.087	2531566.693	692.9	763.6	1.1	1.1	TRIM
1070	TREETOP	343230.917	2531583.462	690.4	764.1	2.7	2.7	TRIM
1074	TREETOP	343011.775	2531520.718	698.3	766.0	0.1	0.1	TRIM
1075	TREETOP	342989.324	2531529.671	698.3	769.1	2.8	2.8	TRIM
1088	TREETOP	343228.741	2531523.937	693.2	766.0	4.4	4.4	TRIM
1112	TREETOP	343377.758	2531502.363	692.2	759.3	0.6	0.6	TRIM
1130	TREETOP	343258.521	2531498.614	693.2	771.3	10.2	10.2	TRIM
1131	TREETOP	343343.614	2531544.009	690.6	764.6	5.3	5.3	TRIM
1190	TREETOP	343304.731	2531548.792	690.6	767.4	7.4	7.4	TRIM
1218	TREETOP	343609.896	2531934.092	690.7	754.2	1.0	1.0	TRIM
9999	VSR	345608.473	2531419.335	699.0	716.0	1.6	1.6	LIGHT/MARK

LEGEND			
EXISTING AIRPORT FACILITIES		FUTURE AIRPORT FACILITIES	
— Airport Property Line	⊥ Windcone	▨ Apron/Non-Movement Area Pavement	
▨ Apron/Runway/Taxiway Pavement	⊞ Threshold Lights	▨ Taxiway Pavement	
▨ Shoulder Pavement	⊞ PAPI	▨ Shoulder Pavement	
▨ Avigation Easement	⊞ RVR	▨ Buildings	
▨ On-Airport Buildings	⊞ ALSF-II	▨ Surface Parking	
▨ Off-Airport Buildings	⊞ Localizer	▨ Facility/Pavement Demolition	
▨ Vehicle Service Road (VSR)	⊞ Vehicle Service Road Clearance ¹	▨ Taxiway/Taxilane Centerline	
▨ Landside Roadways	⊞ Air Operations Area (AOA) Fence ³	▨ Vehicle Service Road (VSR)	
⋯ Topographical Contours	⊞ Air Operations Area (AOA) Fence ³	⋯ Air Operations Area (AOA) Fence ³	
⋯ Water Features	⊞ Navigational Aid ⁷	⊞ Tank	
⋯ Extended Runway Centerline			
⋯ Composite Ground Profile			
⋯ Roadway and Railway Clearance ¹			
EXISTING AND FUTURE RUNWAY SURFACES/NAVIGATION ²			
▨ RPZ — Runway Protection Zone (RPZ)	▨ TERPS Departure Surface		
▨ RSA — Runway Safety Area (RSA)	▨ Threshold Siting Surface (TSS)		
▨ ROFA — Runway Object Free Area (ROFA)	▨ Glideslope Qualification Surface (GQS)		
▨ OFZ — Runway Obstacle Free Zone (OFZ)	▨ PAPI Siting Surface		
▨ TSA — Existing Future Taxiway Safety Area (TSA)	▨ Inner Approach OFZ (IAOFZ)		
▨ TOFA — Existing Taxiway Object Free Area (TOFA)	▨ Precision Obstacle Free Zone (POFZ)		
▨ LOC & GS Critical Area	▨ Inner Transitional OFZ (ITOFZ)		
▨ Future Taxiway Safety Area (TSA)			
▨ Future Taxiway/lane Object Free Area (TOFA)			
▨ Part 77 Approach Surface			

NOTES:

1/ Roadway and railway elevations depicted in the plan and profile views contain the Part 77 clearances above ground level (AGL) (Service/Private Roads: 10 feet; Roadways: 15 feet; Railways: 23 feet). All other object elevations shown in the plan and profile views (streams, localizers, fence, etc.) are the actual ground elevations at those points.

2/ No changes to Runway 1L therefore all future surfaces will be the same as the existing surfaces.

3/ Fence heights shown for Existing AOA Fence where available. Future AOA Fence heights to be determined.

4/ No penetrations exist for Runway 1L Threshold Siting Surface, Glideslope Qualification Surface, PAPI Siting Surface, Inner Approach OFZ, Precision OFZ, and Inner Transitional OFZ. No penetrations exist for Runway 19R TERPS Departure Surface.

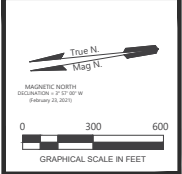
5/ Elevations are in feet above Mean Sea Level (MSL).

6/ Runway Centerline Profile shown on Sheet 9.

7/ For future navigational aid details, refer to the Future ALP Sheet (Sheet 4).

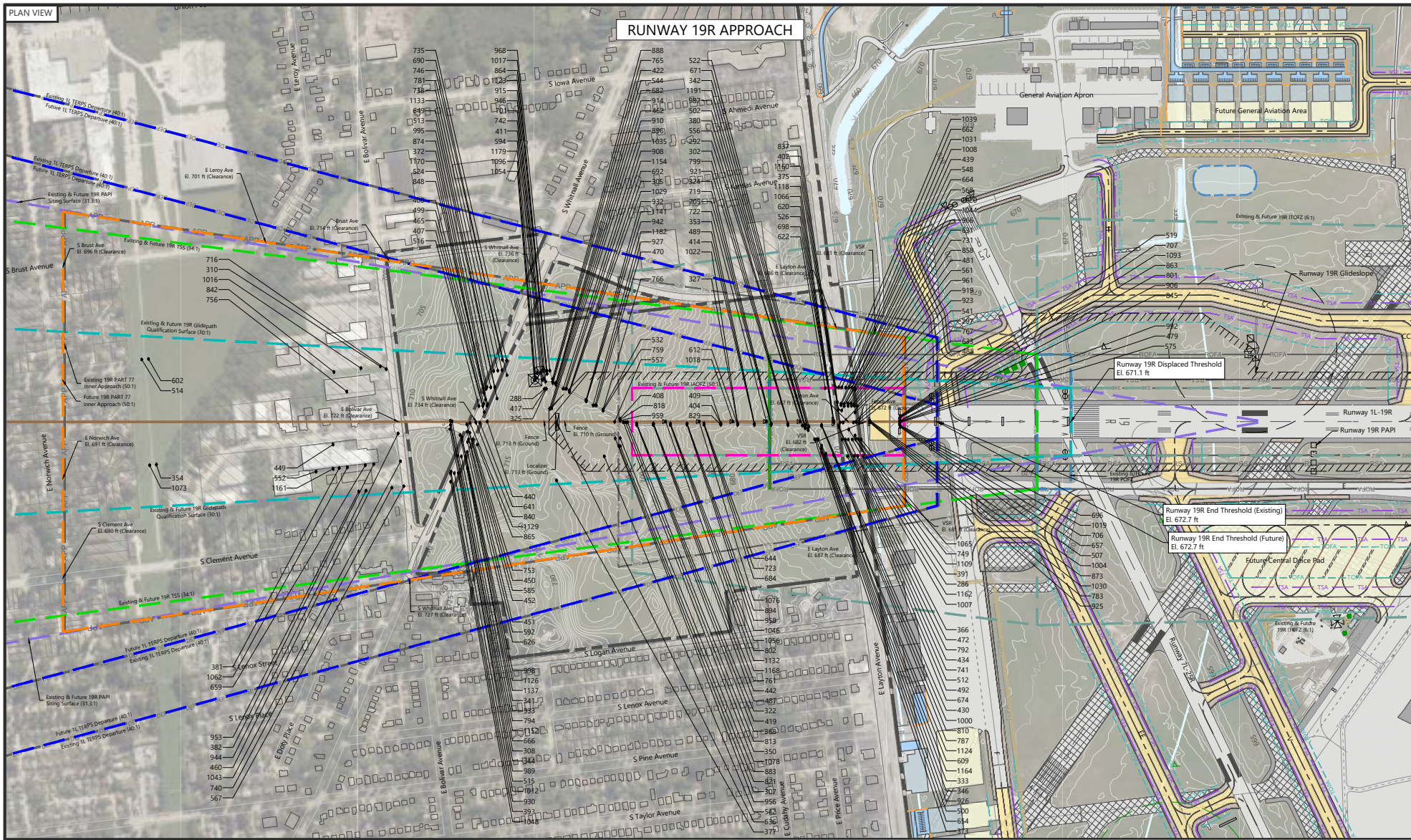


INNER APPROACH SHEET
RUNWAY 1L



No	Revisions	Date

DRAWN BY: SN
CHECKED BY: DGR
September 2022
Sheet 15 of 35



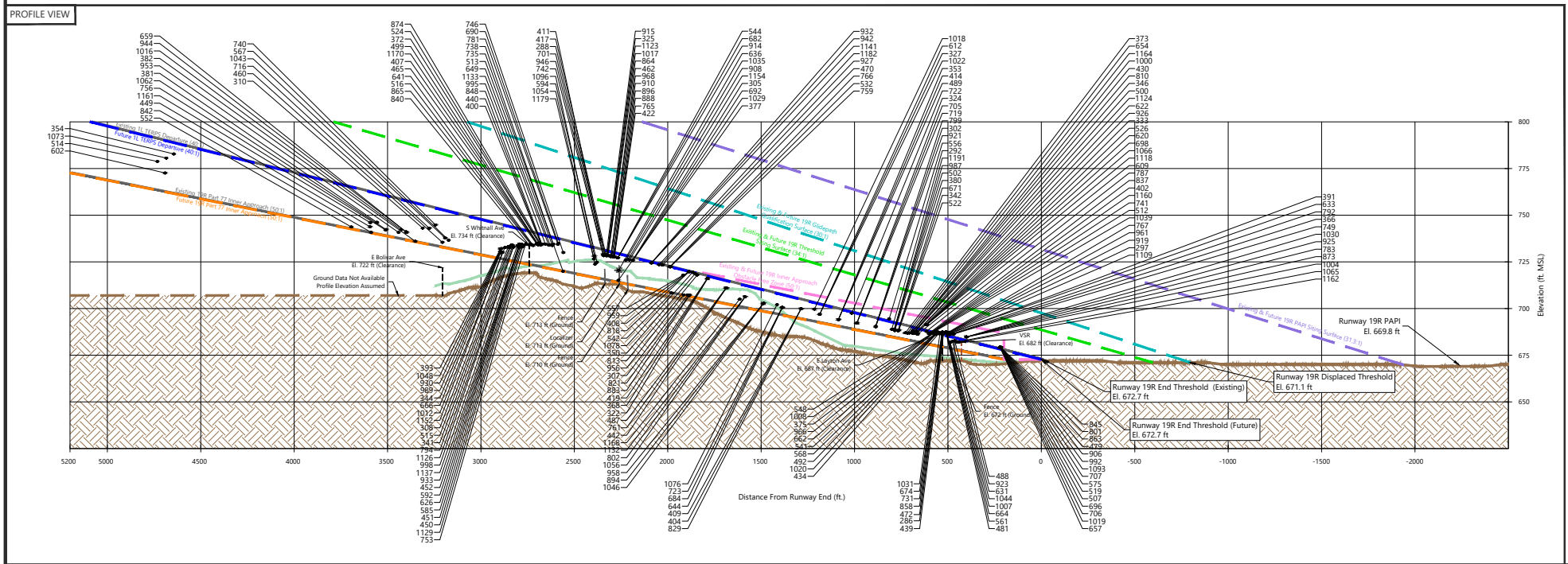
LEGEND

EXISTING AIRPORT FACILITIES	FUTURE AIRPORT FACILITIES
— Airport Property Line	Windcone
— Apron/Runway/Taxiway Pavement	ASDE
— Shoulder Pavement	Threshold Lights
— Avigation Easement	PAPI
— On-Airport Buildings	Off-Airport Buildings
— Off-Airport Buildings	RVR
— Vehicle Service Road (VSR)	ALSF-II
— Landside Roadways	Localizer
— Air Operations Area (AOA) Fence ¹	AWOS
— Topographical Contours	DME
— Water Features	REIL
— Extended Runway Centerline	RTR
— Composite Ground Profile	MALSR
— Roadway and Railway Clearance ¹	
— Vehicle Service Road Clearance ¹	

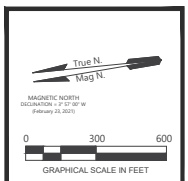
EXISTING RUNWAY SURFACES/NAVIGATION	FUTURE RUNWAY SURFACES/NAVIGATION
— RPZ — Runway Protection Zone (RPZ)	— RSA — Runway Safety Area (RSA)
— RSA — Runway Safety Area (RSA)	— ROFA — Runway Object Free Area (ROFA)
— ROFA — Runway Object Free Area (ROFA)	— OFZ — Runway Obstacle Free Zone (ROFZ)
— OFZ — Runway Obstacle Free Zone (ROFZ)	— Part 77 Approach Surface
— TSA — Existing Future Taxiway Safety Area (TSA)	— TERPS Departure Surface
— TOFA — Existing Taxiway Object Free Area (TOFA)	— TSA — Future Taxiway Safety Area (TSA)
— APP — Part 77 Approach Surface	— TOFA — Future Taxiway/lane Object Free Area (TOFA)
— DEP — TERPS Departure Surface	
— Threshold Siting Surface (TSS) ²	
— Glideslope Qualification Surface (GQS) ²	
— PAPI Siting Surface ²	
— Precision Obstacle Free Zone (POFZ) ²	
— Inner Approach OFZ (IAOFZ) ²	
— Inner Transitional OFZ (ITOFZ) ²	
— LOC & GS Critical Area	
— AWOS Critical Area	

NOTES:

- 1/ Roadway and railway elevations depicted in the plan and profile views contain the Part 77 clearances above ground level (AGL) (Service/Private Roads: 10 feet; Roadways: 15 feet; Railways: 23 feet). All other object elevations shown in the plan and profile views (streams, localizers, fence, etc.) are the actual ground elevations at those points.
- 2/ The future Runway 19R extension has no effect on these surfaces since they begin at the displaced threshold (and PAPI for PAPI Siting Surface). Therefore, these surfaces remain the same in both the existing and future conditions.
- 3/ Fence heights shown for Existing AOA Fence where available. Future AOA Fence heights to be determined.
- 4/ Runway 19R Obstruction Tables are shown on Sheets 18 and 19.
- 5/ Elevations are in feet above Mean Sea Level (MSL).
- 6/ Runway Centerline Profile shown on Sheet 9.
- 7/ For future navigational aid details, refer to the Future ALP Sheet (Sheet 4).



INNER APPROACH SHEET
RUNWAY 19R (MAN MADE OBSTRUCTIONS)



No	Revisions	Date

DRAWN BY: SN
CHECKED BY: DGR
September 2022
Sheet 16 of 35

SOURCES:
MKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base linework); Federal Aviation Administration, Advisory Circular 150/5300 13A Airport Design, February 2014; Federal Aviation Administration, Engineering Brief No. 99A, July 2020; Code of Federal Regulations, Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace, July 2010; Milwaukee County, December 2021 (property line); Martinez Geospatial, March 2019 (obstruction data); Ricoondo & Associates, Inc. April 2021 (airspace assessment).

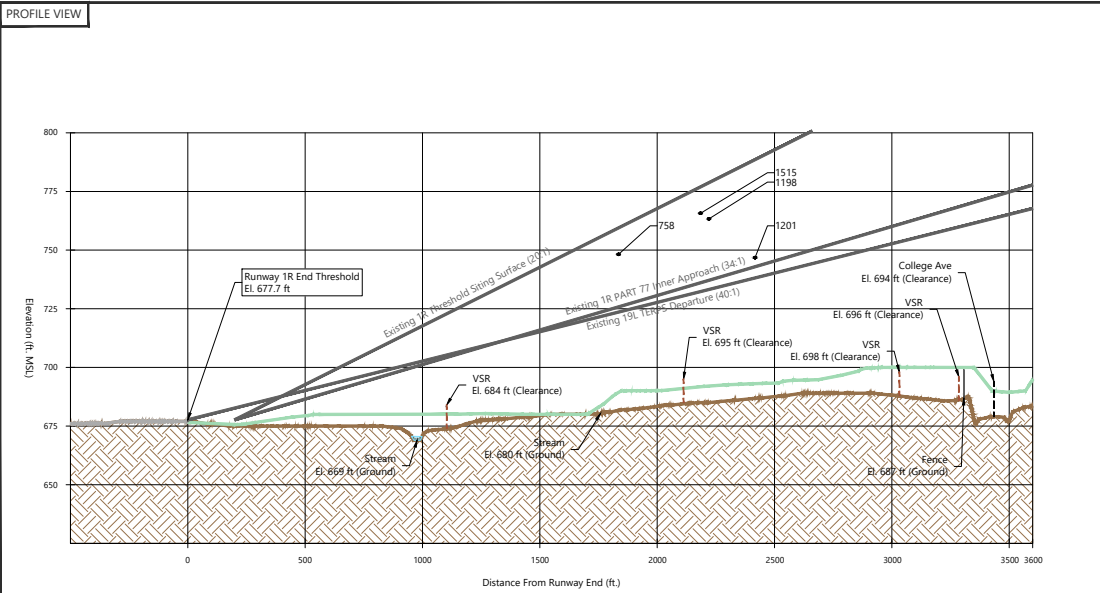
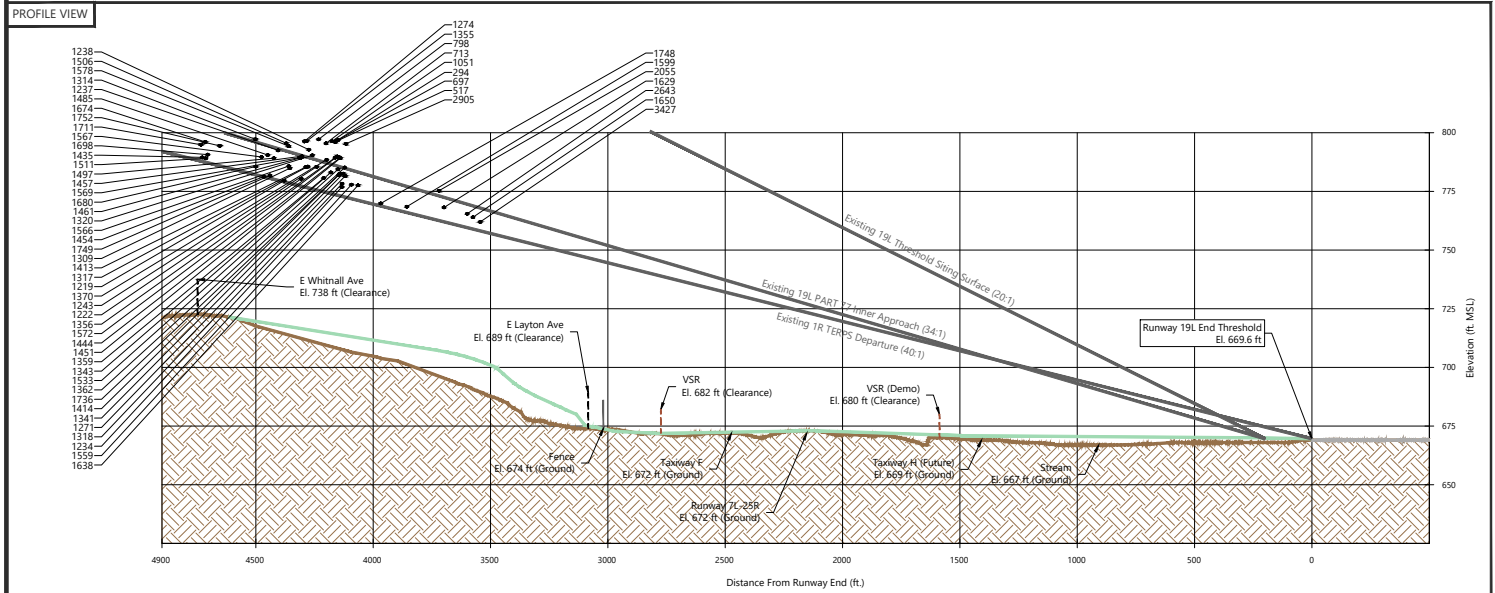
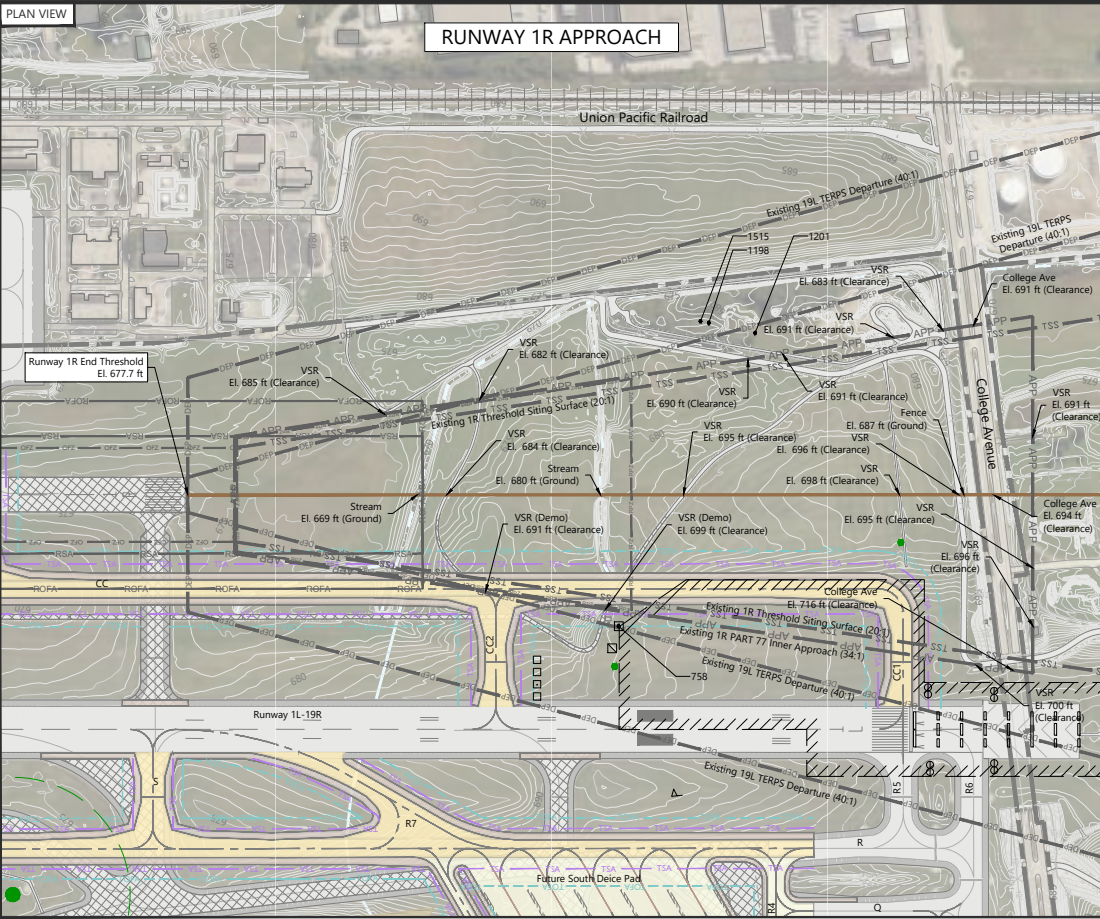
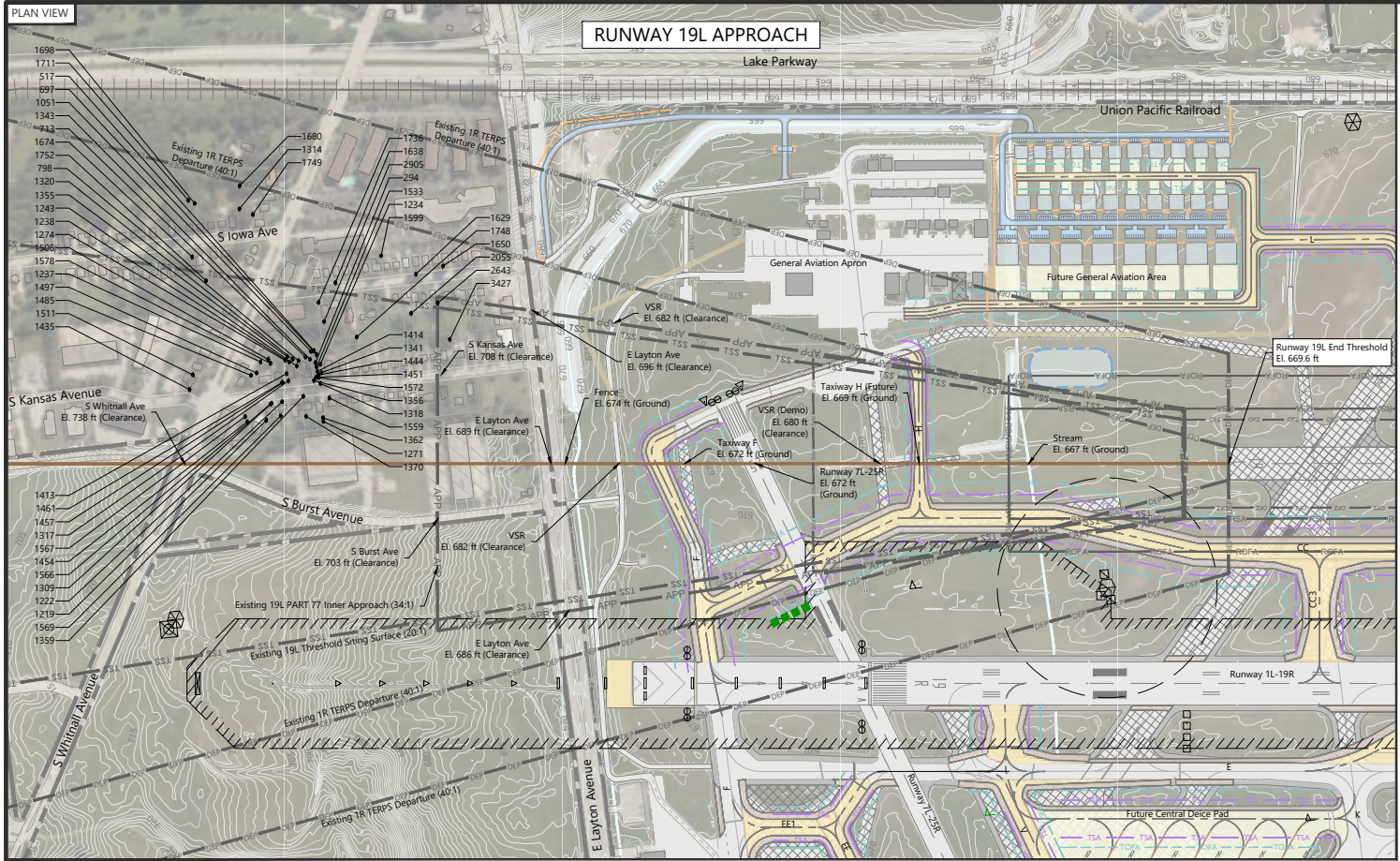
PREPARED BY:
Ricoondo & Associates, Inc.

RUNWAY 19R OBSTRUCTION TABLE (1 OF 2)

Obstruction Number	Obstruction Type	Northing	Easting (ft)	Ground Elevation (ft)	Obstruction Elevation (ft)	Max Penetration (ft)	Existing 19R Part 77 Inner Approach Surface Penetration (ft) (1)	Future 19R Part 77 Inner Approach Surface Penetration (ft) (2)	Existing & Future 19R Threshold Siting (ft) (3)	Existing 1L TERPS Departure Surface (OCs Penetration (ft) (4)	Future 1L TERPS Departure Surface (OCs Penetration (ft) (5)	Proposed Disposition
22	TREETOP	359520.159	253028.769	711.9	770.2	13.8	-	-	-	-	-	TRIM
23	TREETOP	359521.851	253029.489	704.0	769.4	29.1	-	-	-	-	-	TRIM
28	TREETOP	359524.245	253030.189	705.1	769.1	27.7	-	-	-	-	-	TRIM
43	TREETOP	359528.129	253034.870	706.3	768.2	28.6	-	-	-	-	-	TRIM
104	TREETOP	359538.888	2532209.139	706.3	772.3	36.4	-	-	-	-	-	TRIM
115	TREETOP	359572.117	253268.068	704.7	773.3	35.5	-	-	-	-	-	TRIM
134	TREETOP	359588.222	253394.823	717.5	772.6	48.1	-	-	1.9	-	-	TRIM
145	TREETOP	359591.881	253405.189	705.9	769.1	28.2	-	-	-	-	-	TRIM
195	TREETOP	359585.766	253218.739	703.0	779.9	36.0	-	-	-	-	-	TRIM
215	TREETOP	359588.082	253281.980	717.1	762.9	35.4	-	-	-	-	-	TRIM
226	TREETOP	359593.559	253389.622	713.3	771.8	42.3	-	-	-	-	-	TRIM
285	TREETOP	359595.746	253420.827	707.0	762.0	4.6	-	-	-	-	-	TRIM
286	ROAD	359571.871	253049.251	671.8	686.9	7.7	-	-	-	-	-	MARK/LIGHT
287	TREETOP	359576.432	253026.150	707.0	740.8	2.7	-	-	-	-	-	TRIM
288	ROAD	359496.248	253094.823	711.4	738.5	13.1	-	-	-	-	-	MARK/LIGHT
289	TREETOP	360202.872	253238.004	696.3	766.2	16.2	-	-	-	-	-	TRIM
290	TREETOP	360236.205	253242.213	699.3	754.0	5.0	-	-	-	-	-	TRIM
291	ROAD	359591.852	253215.327	671.2	686.9	4.2	-	-	-	-	-	MARK/LIGHT
295	TREETOP	359599.630	253303.428	701.2	774.7	29.7	-	-	-	-	-	TRIM
297	ROAD	359566.211	253280.628	671.4	687.3	8.9	-	-	-	-	-	MARK/LIGHT
299	TREETOP	359528.756	253302.823	705.9	752.4	10.1	-	-	-	-	-	TRIM
302	ROAD	359576.538	253215.286	674.5	680.4	5.0	-	-	-	-	-	MARK/LIGHT
303	TREETOP	360202.407	253238.791	694.0	758.8	6.4	-	-	-	-	-	TRIM
304	TREETOP	360211.802	253338.639	696.4	766.7	16.2	-	-	-	-	-	TRIM
305	ROAD	359494.820	253287.703	720.0	725.9	13.5	-	-	-	-	-	MARK/LIGHT
307	GROUND	359384.276	253234.524	705.0	707.3	0.8	-	-	-	-	-	GRADE
308	ROAD	359491.857	253289.688	716.9	719.2	7.0	-	-	-	-	-	MARK/LIGHT
309	TREETOP	359571.708	253243.531	704.2	754.0	12.0	-	-	-	-	-	TRIM
310	UTILITY POLE	359488.949	253214.871	703.7	743.1	8.2	-	-	-	-	-	MARK/LIGHT
312	TREETOP	360203.491	253238.263	693.8	758.8	7.2	-	-	-	-	-	TRIM
314	TREETOP	359533.271	253271.825	693.3	767.2	11.1	-	-	-	-	-	TRIM
315	TREETOP	359531.985	253280.887	705.9	746.5	41.9	-	-	-	-	-	TRIM
316	TREETOP	360201.407	253238.791	694.0	758.8	6.4	-	-	-	-	-	TRIM
317	TREETOP	360205.086	253247.434	703.1	756.7	8.3	-	-	-	-	-	TRIM
318	TREETOP	360205.086	253247.434	703.1	756.7	8.3	-	-	-	-	-	TRIM
319	TREETOP	360205.086	253247.434	703.1	756.7	8.3	-	-	-	-	-	TRIM
320	TREETOP	360205.086	253247.434	703.1	756.7	8.3	-	-	-	-	-	TRIM
321	TREETOP	360205.086	253247.434	703.1	756.7	8.3	-	-	-	-	-	TRIM
322	ROAD	357965.381	253045.729	698.3	718.0	11.6	-	-	-	-	-	MARK/LIGHT
324	ROAD	357739.239	253045.828	676.1	692.4	4.0	-	-	-	-	-	MARK/LIGHT
325	ROAD	359490.291	253281.251	712.1	708.9	12.1	-	-	-	-	-	MARK/LIGHT
326	TREETOP	359746.747	253292.271	704.7	758.5	29.1	-	-	-	-	-	TRIM
327	ROAD	357936.366	253246.682	696.3	696.9	4.3	-	-	-	-	-	MARK/LIGHT
328	ROAD	359484.859	253231.854	707.2	751.2	8.6	-	-	-	-	-	MARK/LIGHT
331	ROAD	359484.859	253247.829	676.4	686.5	4.5	-	-	-	-	-	MARK/LIGHT
337	TREETOP	359534.251	253238.617	694.6	754.2	8.2	-	-	-	-	-	TRIM
339	TREETOP	360205.079	253292.724	694.4	758.8	0.5	-	-	-	-	-	TRIM
341	UTILITY POLE	359517.375	253285.924	718.8	734.0	8.6	-	-	-	-	-	MARK/LIGHT
342	ROAD	359593.827	253255.642	672.4	688.1	4.1	-	-	-	-	-	MARK/LIGHT
343	TREETOP	359534.251	253238.617	694.6	754.2	8.2	-	-	-	-	-	TRIM
344	ROAD	359534.251	253238.617	694.6	754.2	8.2	-	-	-	-	-	MARK/LIGHT
345	TREETOP	360202.280	253238.617	694.6	754.2	8.2	-	-	-	-	-	TRIM
346	ROAD	359587.472	253238.617	694.6	754.2	8.2	-	-	-	-	-	MARK/LIGHT
348	TREETOP	360208.190	253235.551	694.6	758.8	21.6	-	-	-	-	-	TRIM
350	ROAD	359490.291	253281.251	712.1	708.9	12.1	-	-	-	-	-	MARK/LIGHT
351	TREETOP	360242.127	253253.882	694.2	766.6	21.6	-	-	-	-	-	TRIM
353	ROAD	359758.477	253275.302	677.8	694.3	3.7	-	-	-	-	-	MARK/LIGHT
354	TOWER	360202.201	253238.617	694.4	762.8	21.2	-	-	-	-	-	MARK/LIGHT
355	TREETOP	359595.739	253295.942	704.9	754.2	10.5	-	-	-	-	-	TRIM
357	TREETOP	359574.229	253280.887	705.9	746.5	41.9	-	-	-	-	-	TRIM
358	TREETOP	360205.079	253271.571	693.7	765.5	15.3	-	-	-	-	-	TRIM
362	TREETOP	359588.949	253245.834	706.3	741.8	3.3	-	-	-	-	-	TRIM
364	TREETOP	360234.237	253247.564	700.2	750.0	0.6	-	-	-	-	-	TRIM
365	TREETOP	360363.598	253249.724	703.7	746.3	0.5	-	-	-	-	-	TRIM
366	ROAD	359490.291	253281.251	712.1	708.9	12.1	-	-	-	-	-	MARK/LIGHT
367	TREETOP	359484.859	253245.834	706.3	737.4	4.0	-	-	-	-	-	TRIM
368	ROAD	357965.381	253238.617	698.3	716.2	11.8	-	-	-	-	-	MARK/LIGHT
370	TREETOP	359530.886	253299.518	704.0	762.8	18.6	-	-	-	-	-	TRIM
371	TREETOP	360221.122	253240.238	695.3	760.0	18.3	-	-	-	-	-	TRIM
372	ROAD	359534.251	253238.617	694.6	754.2	8.2	-	-	-	-	-	MARK/LIGHT
373	ROAD	359534.251	253238.617	694.6	754.2	8.2	-	-	-	-	-	MARK/LIGHT
375	ROAD	359760.949	253230.857	671.9	686.9	6.7	-	-	-	-	-	MARK/LIGHT
377	GROUND	359474.115	253256.998	711.8	715.1	1.1	-	-	-	-	-	GRADE
380	ROAD	359530.886	253238.617	694.6	754.2	8.2	-	-	-	-	-	MARK/LIGHT
381	UTILITY POLE	359571.871	253215.286	674.5	746.6	4.0	-	-	-	-	-	MARK/LIGHT
382	UTILITY POLE	359545.861	253240.380	707.2	756.0	0.3	-	-	-	-	-	MARK/LIGHT
384	TREETOP	360213.723	253238.617	694.6	754.2	4.3	-	-	-	-	-	TRIM
385	TREETOP	359738.515	253239.305	705.1	744.5	5.3	-	-	-	-	-	TRIM
389	TREETOP	359534.251	253238.617	694.6	754.2	8.2	-	-	-	-	-	TRIM
391	ROAD	359571.871	253215.286	674.5	746.6	4.0	-	-	-	-	-	MARK/LIGHT
393	ROAD	359597.737	253245.383	717.5	712.0	5.4	-	-	-	-	-	MARK/LIGHT
400	ROAD	359840.797	253289.538	716.9	734.4	12.0	-	-	-	-	-	MARK/LIGHT
402	ROAD	359763.977	253252.251	672.2	687.0	6.5	-	-	-	-	-	MARK/LIGHT
403	TREETOP	359511.587	253238.617	694.6	754.2	8.2	-	-	-	-	-	TRIM
404	ROAD	359762.122	253252.251	672.2	687.0	6.5	-	-	-	-	-	MARK/LIGHT
405	TREETOP	360207.078	253240.380	707.2	756.0	0.3	-	-	-	-	-	TRIM
407	ROAD	359861.336	253282.020	717.2	734.1	13.3	-	-	-	-	-	MARK/LIGHT
408	ROAD	359861.336	253282.020	717.2	734.1	13.3	-	-	-	-	-	MARK/LIGHT
409	ROAD	359861.336	253282.020	717.2	734.1	13.3	-	-	-	-	-	MARK/LIGHT
411	ANTENNA	359484.859	253245.834	713.3	737.1	21.2	-	-	-	-	-	MARK/LIGHT
414	ROAD	357989.101	253267.302	678.0	694.3	3.5	-	-	-	-	-	MARK/LIGHT
415	TREETOP	360248.538	253238.617	694.6	754.2	8.2	-	-	-	-	-	TRIM
417	ROAD	359484.859	253245.834	713.3	737.1	21.2	-	-	-	-	-	MARK/LIGHT
418	ROAD	359484.859	253245.834	713.3	737.1	21.2	-	-	-	-	-	MARK/LIGHT
422	ROAD	359487.423	253253.882	711.4	727.8	13.4	-	-	-	-	-	MARK/LIGHT
424	ROAD	360363.598	253247.564	703.7	746.3	0.5	-	-	-	-	-	MARK/LIGHT
425	TREETOP	359534.251	253238.617	694.6	754.2	8.2	-	-	-	-	-	TRIM
427	TREETOP	359534.251	253238.617	694.6	754.2	8.2	-	-	-	-	-	TRIM
428	ROAD	359571.871	253215.286	674.5	746.6	4.0	-	-	-	-	-	MARK/LIGHT
433	TREETOP	359588.949	253245.834	706.3	741.7	3.5	-	-	-	-	-	TRIM
434	ROAD	359799.886	253246.561	671.6	687.0	7.4	-	-	-	-	-	MARK/LIGHT
435	TREETOP	359501.391	253240.380	707.2	749.4	12.9	-	-	-	-	-	TRIM
437	TREETOP	360208.219	253238.617	694.6	754.2	7.0	-	-	-	-	-	TRIM
438	ROAD	359484.859	253245.834	713.3	737.1	21.2	-	-	-	-	-	MARK/LIGHT
440	CL	359484.859	253245.834	713.3	737.1	21.2	-	-	-	-	-	FIXED BY FUNCTION
442	ROAD	357986.026	253238.617	694.6	754.2	8.2	-	-	-	-	-	MARK/LIGHT
443	TREETOP	360220.367	253245.834	703.1	752.4	3.5	-	-	-	-	-	TRIM
444	TREETOP	360220.367	253245.834	703.1	752.4	3.5	-	-	-	-	-	TRIM
445	TREETOP	360220.367	253245.834	703.1	752.4	3.5	-	-	-	-	-	TRIM
446	TREETOP	360220.367	253245.834	703.1	752.4							

RUNWAY 19R OBSTRUCTION TABLE

Obstruction Number	Obstruction Type	Northing (N)	Eastng (E)	Ground Elevation (ft)	Obstruction Elevation (ft)	Max Penetration (ft)	Existing 150' Part 77 Inner Approach Surface/Obstruction (ft)	Future 150' Part 77 Inner Approach Surface/Obstruction (ft)	Existing & Future 150' Threshold Surface/Obstruction (ft)	Existing 15' TERPS Departure Surface/Obstruction (ft)	Future 15' TERPS Departure Surface/Obstruction (ft)	Proposed Disposition
781	ROAD	358735.537	2533040.800	734.0	734.4	14.0	13.8	14.0	-	-	-	MARK/LIGHT
783	APPROACH LIGHT	358838.727	2533335.400	684.8	684.8	7.0	-	-	-	1.8	2.1	FIXED BY FUNCTION
784	TREETOP	360282.135	2533094.582	693.2	757.7	7.9	7.7	7.9	-	-	-	TRM
787	CL	358838.218	2533243.335	670.4	687.8	6.8	6.6	6.8	-	-	-	FIXED BY FUNCTION
792	ROAD	356696.044	2533233.870	671.2	686.0	7.5	7.3	7.5	0.8	1.0	-	MARK/LIGHT
794	ROAD	359321.245	2533354.152	714.3	733.9	8.6	8.4	8.6	-	-	-	MARK/LIGHT
796	TREETOP	360342.699	2533287.870	701.3	761.3	11.0	10.7	11.0	-	-	-	TRM
797	TREETOP	360341.422	2533265.668	700.9	760.6	11.0	10.8	11.0	-	-	-	TRM
799	ROAD	357070.893	2533552.243	674.5	680.4	4.0	3.8	4.0	-	-	-	MARK/LIGHT
801	APPROACH LIGHT	356402.258	2532924.820	670.2	679.4	6.3	6.1	6.3	1.0	1.2	-	FIXED BY FUNCTION
802	ROAD	357786.525	2532820.022	688.2	706.2	5.8	5.8	5.8	-	-	-	MARK/LIGHT
803	TREETOP	360261.760	2532828.852	698.8	766.0	18.0	18.0	18.0	-	-	-	TRM
804	TREETOP	360283.895	2533145.012	695.4	765.3	15.5	15.3	15.5	-	-	-	TRM
820	ROAD	356871.953	2533519.209	671.7	688.0	5.6	5.4	5.6	-	-	-	MARK/LIGHT
821	ROAD	358618.170	2532839.038	701.2	718.0	12.5	12.3	12.5	-	-	-	MARK/LIGHT
826	TREETOP	360175.021	2532453.948	701.2	752.9	5.0	4.8	5.0	-	-	-	TRM
827	TREETOP	360295.777	2532521.254	703.5	752.9	4.3	4.3	4.3	-	-	-	TRM
828	ROAD	358061.583	2532677.713	703.1	710.7	13.3	13.1	13.3	-	-	-	MARK/LIGHT
829	GROUND	358076.564	2532521.053	705.7	707.3	0.9	0.7	0.9	-	-	-	GRADE
829	ROAD	359520.184	2532407.367	708.9	720.1	11.2	11.0	11.2	-	-	-	TRM
834	TREETOP	360232.735	2532493.889	689.2	765.2	14.0	14.0	14.0	-	-	-	TRM
838	ROAD	357463.071	2532587.846	693.8	699.8	5.4	5.2	5.4	-	-	-	MARK/LIGHT
839	TREETOP	359592.353	2532463.068	707.2	746.5	10.2	10.0	10.2	-	-	-	TRM
836	TREETOP	360298.946	2532571.886	697.5	768.1	18.0	17.8	18.0	-	-	-	TRM
840	ROAD	356786.140	2532740.720	671.7	685.6	5.9	5.7	5.9	-	-	-	MARK/LIGHT
842	UTILITY POLE	359789.977	2532828.952	718.3	724.2	6.0	6.0	6.0	-	-	-	TRM
845	APPROACH LIGHT	356404.290	2532555.555	670.3	679.4	6.3	6.3	6.3	1.0	1.2	-	FIXED BY FUNCTION
846	TREETOP	360218.575	2533840.003	696.6	759.6	10.1	9.9	10.1	-	-	-	TRM
847	TREETOP	360295.243	2533122.454	683.2	769.7	10.0	9.8	10.0	-	-	-	TRM
848	ROAD	358688.178	2532887.487	716.3	724.5	12.3	12.1	12.3	-	-	-	MARK/LIGHT
851	TREETOP	359817.287	2533006.927	706.7	742.6	0.6	0.4	0.6	-	-	-	TRM
858	ROAD	356783.436	2532823.831	672.2	687.5	8.7	8.0	8.7	1.3	1.6	-	MARK/LIGHT
863	APPROACH LIGHT	356402.038	2532526.326	670.2	679.4	6.3	6.1	6.3	1.0	1.2	-	FIXED BY FUNCTION
864	ROAD	358486.382	2532992.720	712.6	728.5	13.4	13.2	13.4	-	-	-	MARK/LIGHT
865	CL	358486.382	2532992.720	712.6	728.5	13.4	13.2	13.4	-	-	-	FIXED BY FUNCTION
873	APPROACH LIGHT	356583.823	2532521.472	670.3	684.9	8.3	7.9	8.3	1.9	2.1	-	FIXED BY FUNCTION
874	ROAD	358830.431	2532498.051	710.0	734.2	12.0	11.8	12.0	-	-	-	MARK/LIGHT
879	TREETOP	359484.540	2532638.420	706.0	733.4	18.8	18.6	18.8	-	-	-	TRM
880	TREETOP	360298.952	2533193.423	696.7	763.3	13.3	13.1	13.3	-	-	-	TRM
881	TREETOP	360298.921	2533193.420	696.7	763.3	8.0	8.0	8.0	-	-	-	TRM
883	GROUND	356872.262	2532658.586	705.3	706.8	0.4	0.2	0.4	-	-	-	GRADE
884	TREETOP	360171.268	2532476.813	704.7	740.7	1.7	1.5	1.7	-	-	-	TRM
885	TREETOP	359483.446	2532433.733	709.9	738.5	4.1	3.9	4.1	-	-	-	TRM
886	TREETOP	360220.380	2533193.220	695.2	762.5	12.2	12.0	12.2	-	-	-	TRM
888	ROAD	358486.800	2532992.720	712.6	728.5	13.4	13.2	13.4	-	-	-	MARK/LIGHT
889	TREETOP	359941.425	2533043.732	703.7	738.2	13.7	13.5	13.7	10.5	10.7	-	TRM
894	ROAD	357668.580	2532610.816	686.5	702.9	4.5	4.3	4.5	-	-	-	MARK/LIGHT
895	TREETOP	359736.150	2532423.189	706.3	740.0	8.4	8.2	8.4	-	-	-	TRM
896	ROAD	358486.800	2532992.720	712.6	728.5	13.4	13.2	13.4	-	-	-	MARK/LIGHT
893	TREETOP	360220.338	2532434.005	697.6	755.6	6.3	6.1	6.3	-	-	-	TRM
905	TREETOP	360234.943	2533123.885	695.6	769.3	20.4	20.2	20.4	-	-	-	TRM
906	APPROACH LIGHT	356404.084	2532526.021	670.3	679.4	6.3	6.1	6.3	1.0	1.2	-	FIXED BY FUNCTION
907	TREETOP	360233.956	2533238.295	697.7	753.8	4.7	4.5	4.7	-	-	-	TRM
908	ROAD	358486.114	2532992.720	712.6	728.5	13.4	13.2	13.4	-	-	-	MARK/LIGHT
910	ROAD	358486.114	2532992.720	712.6	728.5	13.4	13.2	13.4	-	-	-	MARK/LIGHT
911	TREETOP	360287.812	2533135.185	680.0	754.1	2.9	2.7	2.9	-	-	-	TRM
912	TREETOP	360234.617	2532556.136	706.4	751.6	2.2	2.0	2.2	-	-	-	TRM
914	ROAD	358486.112	2532992.720	712.6	728.5	13.4	13.2	13.4	-	-	-	MARK/LIGHT
915	ROAD	358486.742	2532992.720	712.6	728.5	13.4	13.2	13.4	-	-	-	MARK/LIGHT
916	TREETOP	360280.687	2533273.341	684.4	750.5	19.2	19.0	19.2	-	-	-	TRM
919	ROAD	356867.160	2532821.389	672.5	687.3	8.8	8.6	8.8	2.3	2.6	-	MARK/LIGHT
921	ROAD	357070.310	2532548.373	674.5	680.2	3.8	3.6	3.8	-	-	-	MARK/LIGHT
922	TREETOP	360222.556	2533388.850	695.7	773.8	23.1	22.9	23.1	-	-	-	TRM
923	FENCE	356886.554	2532821.151	686.4	702.0	4.2	4.0	4.2	-	-	-	TRM
924	TREETOP	359486.274	2532820.529	700.3	752.6	18.8	18.6	18.8	-	-	-	TRM
925	APPROACH LIGHT	356585.051	2532513.502	670.3	684.8	8.1	7.9	8.1	1.9	2.1	-	FIXED BY FUNCTION
926	ROAD	356877.922	2532340.071	670.7	686.6	4.4	4.2	4.4	-	-	-	MARK/LIGHT
927	ROAD	358282.472	2532776.923	707.5	723.6	14.2	14.0	14.2	-	-	-	MARK/LIGHT
928	TREETOP	360298.943	2532828.112	698.4	752.0	8.0	7.8	8.0	-	-	-	TRM
929	TREETOP	360251.601	2532830.330	701.1	751.9	2.5	2.3	2.5	-	-	-	TRM
930	ROAD	359083.014	2532470.278	711.6	732.1	5.6	5.4	5.6	-	-	-	MARK/LIGHT
932	ROAD	358250.054	2532817.239	708.4	724.5	14.1	13.9	14.1	-	-	-	MARK/LIGHT
933	CL	358976.660	2532482.463	712.6	734.6	10.0	9.8	10.0	-	-	-	FIXED BY FUNCTION
934	TREETOP	360250.620	2533138.142	691.8	773.8	24.0	23.8	24.0	-	-	-	TRM
935	TREETOP	359580.234	2532408.799	709.6	744.5	10.0	9.8	10.0	-	-	-	TRM
942	ROAD	358251.039	2532806.374	708.4	724.4	14.0	13.8	14.0	-	-	-	MARK/LIGHT
944	UTILITY POLE	359607.593	2532408.242	707.1	740.8	4.2	4.0	4.2	-	-	-	MARK/LIGHT
945	TREETOP	360171.797	2532480.014	703.9	736.1	19.2	19.0	19.2	-	-	-	TRM
946	ROAD	358486.800	2532992.720	712.6	728.5	13.4	13.2	13.4	-	-	-	MARK/LIGHT
947	TREETOP	360234.967	2533176.223	695.5	764.8	14.6	14.4	14.6	-	-	-	TRM
948	TREETOP	359747.194	2532422.280	706.3	744.8	5.4	5.2	5.4	-	-	-	TRM
950	TREETOP	360485.705	2533070.407	692.1	766.6	11.2	11.0	11.2	-	-	-	TRM
953	UTILITY POLE	358486.485	2532482.158	695.5	746.8	3.3	3.1	3.3	-	-	-	MARK/LIGHT
954	GROUND	358231.413	2532570.500	706.2	707.3	0.3	0.3	0.3	-	-	-	GRADE
958	ROAD	357487.023	2532831.838	686.6	702.9	4.5	4.3	4.5	-	-	-	MARK/LIGHT
959	ROAD	358061.844	2532872.119	703.0	710.9	13.5	13.3	13.5	-	-	0.1	MARK/LIGHT
960	TREETOP	359774.168	2532423.577	706.2	740.6	9.6	9.4	9.6	-	-	-	TRM
961	ROAD	358687.470	2532821.068	697.3	697.3	8.7	8.7	8.7	2.8	3.1	-	TRM
962	TREETOP	360335.109	2533237.138	697.7	751.5	2.3	2.3	2.3	-	-	-	TRM
963	TREETOP	360111.463	2532422.969	701.9	754.1	7.4	7.2	7.4	-	-	-	TRM
966	ROAD	356744.503	2532600.963	672.3	687.7	7.7	7.5	7.7	0.6	0.8	-	MARK/LIGHT
967	TREETOP	360245.413	2532482.063	692.2	765.2	14.2	14.0	14.2	-	-	-	TRM
968	ROAD	358486.124	2532992.802	712.6	728.4	14.1	13.9	14.1	-	-	-	MARK/LIGHT
969	TREETOP	360294.058	2532428.677	700.3	755.4	7.3	7.2	7.3	-	-	-	TRM
970	TREETOP	360239.102	2532819.862	700.7	760.5	10.0	10.0	10.0	-	-	-	TRM
975	TREETOP	360171.622	2532467.526	704.6	751.9	3.9	3.7	3.9	-	-	-	TRM
976	TREETOP	359549.231	2532411.810	708.1	759.4	23.0	22.7	23.0	3.0	3.2	-	TRM
977	TREETOP	360246.020	2532822.262	698.8	765.7	15.7	15.5	15.7	-	-	-	TRM
980	TREETOP	360080.570	2533176.217	693.2	765.2	13.2	13.0	13.2	-	-	-	TRM
983	TREETOP	359913.009	2532960.211	703.7	752.1	7.5	7.3	7.5	-	-	-	TRM
985	TREETOP	360274.235	2533337.000	694.1	762.8	11.1	10.9	11.1	-	-	-	TRM
986	TREETOP	360223.950	2532310.742	692								



LEGEND		
EXISTING AIRPORT FACILITIES	FUTURE AIRPORT FACILITIES	EXISTING RUNWAY SURFACES/NAVIGATION
Airport Property Line	Apron/Non-Movement Area Pavement	Runway Protection Zone (RPZ)
Apron/Runway/Taxiway Pavement	Runway/Taxiway Pavement	Runway Safety Area (RSA)
Shoulder Pavement	Shoulder Pavement	Runway Object Free Area (ROFA)
Avigation Easement	Buildings	Runway Obstacle Free Zone (ROFZ)
On-Airport Buildings	Landside Roadways/Surface Parking	Taxiway Safety Area (TSA)
Off-Airport Buildings	Facility/Pavement Demolition	Taxiway Object Free Area (TOFA)
Vehicle Service Road (VSR)	Water Features	Part 77 Approach Surface
Landside Roadways	Taxiway/Taxilane Centerline	TERPS Departure Surface
Air Operations Area (AOA) Fence	Vehicle Service Road (VSR)	Threshold Siting Surface (TSS)
Topographical Contours	Air Operations Area (AOA) Fence	LOC & GS Critical Area
Water Features	Windcone	PAPI
Extended Runway Centerline	MALSR	Navigational Aid
Roadway and Railway Clearance		

NOTES:

1/ Roadway and railway elevations depicted in the plan and profile views contain the Part 77 clearances above ground level (AGL) (Service/Private Roads: 10 feet; Roadways: 15 feet; Railways: 23 feet). All other object elevations shown in the plan and profile views (streams, localizers, fence, etc.) are the actual ground elevations at those points.

2/ Fence heights shown for Existing AOA Fence where available. Future AOA Fence heights to be determined.

3/ No penetrations exist for Runway 19L Part 77 Inner Approach and Threshold Siting Surface.

4/ No penetrations exist for Runway 1R Part 77 Inner Approach and Threshold Siting Surface.

5/ Runway 1R-19L Obstruction Tables are shown on Sheet 25.

6/ Elevations are in feet above Mean Sea Level (MSL).

7/ Runway Centerline Profile shown on Sheet 8.

8/ For future navigational aid details, refer to the Future ALP Sheet (Sheet 4).

SOURCES:

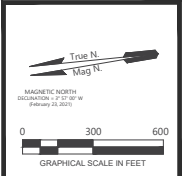
MKE ALP dated May 2017, prepared by Crawford, Murphy, and Tilly, December 2017 (base linework); Federal Aviation Administration, Advisory Circular 150/5300 13A Airport Design, February 2014; Federal Aviation Administration, Engineering Brief No. 99A, July 2020; Code of Federal Regulations, Part 77 Safe, Efficient Use, and Preservation of the Navigable Airspace, July 2010; Milwaukee County, December 2021 (property line); Martinez Geospatial, March 2019 (obstruction data); Ricondo & Associates, Inc. April 2021 (airspace assessment).

PREPARED BY:

Ricondo & Associates, Inc.



INNER APPROACH SHEET
RUNWAY 1R-19L



No.	Revisions	Date

DRAWN BY: SN

CHECKED BY: DGR

September 2022

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