



**Appendix B**  
**Obstructions to the Part 77 Imaginary Surfaces**

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Table B-1: Runway 10R-28L Part 77 Surfaces Penetrations

SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Horizontal	20266	CRANE	944955.1	639440.7	271.718	8911.639L	-12496.1	57	196.728	74.99
Primary	4319	ANTENNA	939257.4	630124.3	101.564	404.791R	-6798.52	45	56.745	44.819
Approach	6972	CELL_TOWER	929269.5	631210.7	111.658	681.409L	3189.387	42	108.967	2.691
Horizontal	18814	CRANE	945565.5	637893.6	250.118	7364.552L	-13106.5	35	244.314	5.804
Primary	4215	ANTENNA	933507	630124.3	51.871	404.905R	-1048.14	35	46.48	5.391
Transitional	6852	TREE	931822.1	629905.2	56.695	624.014R	636.778	30		
Transitional	4383	LLWAS	940610.8	629935.5	105.605	593.584R	-8151.85	27	98.69	6.915
Transitional	6796	TREE	932180.1	629822.7	65.929	706.523R	278.781	26		
Transitional	40633	TREE	932197.6	629788.7	69.652	740.573R	261.336	25		
Transitional	3697	TREE	933337.8	629842.3	66.41	686.887R	-878.896	24		
Transitional	40625	TREE	932224.2	629800.6	65.4	728.700R	234.668	23		
Horizontal	9139	SHIP	945035	638908.5	235.759	8379.449L	-12576	21	236.115	-0.356
Transitional	40569	TREE	932057.1	629823	60.607	706.267R	401.8	21		
Transitional	40481	TREE	931858.2	629848.1	55.038	681.135R	600.708	20		
Transitional	40553	TREE	932058.6	629863.7	53.722	665.580R	400.274	20		
Transitional	40577	TREE	932084.9	629841	57.03	688.249R	374	20		
Approach	32340	TREE	931923.1	629986.3	36.003	542.995R	535.757	19		
Approach	33180	POLE	929165.4	629580.6	90.796	948.730R	3293.446	19	80.291	10.505



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Transitional	42065	TREE	931078.2	631287	64.583	757.701L	1380.681	19		
Horizontal	31618	CRANE	944687.3	639025.5	232.906	8496.415L	-12228.2	18	226.226	6.68
Transitional	40561	TREE	932029.3	629847	54.262	682.213R	429.641	18		
Transitional	40649	TREE	932140.2	629798.9	60.54	730.388R	318.701	18		
Approach	31784	TREE	930939.7	631180.7	53.35	651.398L	1519.235	17		
Transitional	3657	TREE	932797.3	629776.8	65.942	752.437R	-338.385	17		
Transitional	3801	TREE	935123.5	629792.5	79.64	736.699R	-2664.63	17		
Transitional	40593	TREE	932102.3	629811.3	57.232	717.984R	356.603	16		
Transitional	40601	TREE	932207	629849.3	52.035	679.951R	251.858	16		
Transitional	3777	TREE	934871.5	629852.8	67.193	676.407R	-2412.55	15		
Transitional	41097	TREE	933380.6	629804.4	63.51	724.880R	-921.692	15		
Approach	32996	POLE	930137.2	631223	66.479	693.678L	2321.737	14	45.461	21.018
Transitional	3809	TREE	935287.5	629830	71.779	699.185R	-2828.62	14		
Transitional	40665	TREE	932148.9	629765	61.417	764.272R	309.972	14		
Transitional	41105	TREE	933393.5	629848.9	56.557	680.325R	-934.623	14		
Transitional	41209	TREE	933933	629836.6	62.092	692.585R	-1474.08	14		
Transitional	3713	TREE	933540.1	629816.8	61.208	712.390R	-1081.23	13		
Transitional	3721	TREE	933748.5	629737.5	73.376	791.776R	-1289.61	13		
Transitional	3753	TREE	934332.3	629835.3	63.764	693.947R	-1873.43	13		
Transitional	40369	ROAD_SIGN	930459.1	629753.7	59.931	775.595R	1999.756	13	48.702	11.229
Transitional	40489	TREE	931868.4	629824	51.798	705.213R	590.511	13		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Transitional	40585	TREE	932108.4	629766.7	59.865	762.557R	350.457	13		
Transitional	40833	TREE	932696.9	629780.3	60.405	748.982R	-237.977	13		
Transitional	40873	TREE	932777.7	629756.9	63.982	772.322R	-318.84	13		
Transitional	40889	TREE	932814.8	629758.3	63.982	770.961R	-355.86	13		
Transitional	41193	TREE	933766	629768.7	69.247	760.536R	-1307.06	13		
Transitional	41361	TREE	934305.7	629842.5	62.16	686.687R	-1846.83	13		
Approach	31800	TREE	930885.4	631221.5	49.368	692.272L	1573.506	12		
Approach	32988	POLE	930597.5	629957.2	55.038	572.031R	1861.412	12	39.386	15.652
Transitional	3737	TREE	934154.5	629849.2	59.732	680.026R	-1695.56	12		
Transitional	6780	TREE	932382.2	629745	63.094	784.212R	76.649	12		
Transitional	30233	TREE	934463.5	629818.3	65.962	710.922R	-2004.65	12		
Transitional	40641	TREE	932205.1	629753.2	61.552	776.041R	253.843	12		
Transitional	40681	TREE	932388.7	629802.9	54.532	726.348R	70.18	12		
Transitional	40809	TREE	932781.2	629781.6	59.527	747.650R	-322.305	12		
Transitional	40825	TREE	932741	629781	59.19	748.230R	-282.11	12		
Transitional	40849	TREE	932719.4	629758.8	62.025	770.491R	-260.522	12		
Transitional	41233	TREE	934105	629853	58.177	676.219R	-1646.13	12		
Approach	31792	TREE	930918.1	631211.2	47.478	681.925L	1540.827	11		
Approach	32348	TREE	931875.6	630045.6	28.983	483.685R	583.338	11		
Transitional	3793	TREE	935008.6	629844.8	65.249	684.378R	-2549.66	11		
Transitional	3817	TREE	935558.8	629847.4	68.057	681.755R	-3099.94	11		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Transitional	40545	TREE	932156.7	629867.9	43.496	661.311R	302.233	11		
Transitional	40697	TREE	932366.7	629772	58.177	757.229R	92.222	11		
Transitional	40705	TREE	932368.9	629749.8	60.945	779.464R	90.013	11		
Transitional	40817	TREE	932760.1	629781.4	58.987	747.893R	-301.239	11		
Approach	31840	TREE	931113.3	631115.4	43.158	586.170L	1345.592	10		
Approach	32972	POLE	930583.8	629810.9	53.148	718.340R	1875.063	10	40.196	12.952
Transitional	33020	POLE	930518.9	629766.5	55.476	762.810R	1939.999	10	22.309	33.167
Transitional	41113	TREE	933431.9	629830.7	55.005	698.537R	-972.975	10		
Transitional	41153	TREE	933584.1	629838.6	54.735	690.664R	-1125.23	10		
Transitional	41185	TREE	933777.6	629807.8	61.147	721.479R	-1318.7	10		
Transitional	41201	TREE	933708.6	629756	67.29	773.254R	-1249.69	10		
Transitional	41377	TREE	934258	629854.3	57.637	674.879R	-1799.09	10		
Transitional	41865	TREE	935614.4	629847	67.594	682.174R	-3155.54	10		
Transitional	42081	TREE	931046.1	631246.5	49.193	717.227L	1412.863	10		
Approach	31816	TREE	931106.7	631168	42.483	638.743L	1352.21	9		
Approach	32980	POLE	930551.8	629929.2	52.878	600.123R	1907.102	9	36.585	16.293
Approach	33004	POLE	930168.7	631108	61.248	578.679L	2290.222	9	40.095	21.153
Transitional	3729	TREE	934026.5	629810.7	60.832	718.500R	-1567.55	9		
Transitional	6876	POLE	930586	629543.1	85.823	986.154R	1872.901	9	53.775	32.048
Transitional	40937	TREE	932992.5	629849	48.559	680.199R	-533.65	9		
Transitional	41385	TREE	934283.9	629855.5	56.827	673.730R	-1825.04	9		



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			EASTING	NORTHING						
Transitional	41873	TREE	935650.1	629857.7	65.704	671.516R	-3191.2	9		
Approach	31848	TREE	931078.8	631138.4	42.078	609.158L	1380.117	8		
Approach	31872	TREE	931084.4	631097.9	41.673	568.668L	1374.512	8		
Approach	31896	TREE	931224	630935.8	39.243	406.520L	1234.897	8		
Approach	32524	TREE	931490.6	630130.7	33.066	398.527R	968.306	8		
Approach	33012	POLE	930487.4	629884.6	53.62	644.668R	1971.492	8	22.174	31.446
Approach	33124	BUILDING	929649.9	629941.9	70.563	587.394R	2808.952	8	61.526	9.037
Approach	33172	POLE	929157.2	629745.9	80.164	783.424R	3301.69	8	69.93	10.234
Transitional	40473	TREE	931835.1	629885.4	37.758	643.826R	623.779	8		
Transitional	40689	TREE	932368.7	629792.6	52.17	736.646R	90.164	8		
Transitional	40897	TREE	932839.7	629756.2	59.527	773.050R	-380.786	8		
Transitional	41481	TREE	934609.9	629801.5	65.299	727.756R	-2150.98	8		
Primary	40215	POLE	933583.3	630127.5	25.031	401.765R	-1124.44	7	19.339	5.692
Transitional	3673	TREE	932945.2	629833.9	48.644	695.324R	-486.261	7		
Transitional	30225	TREE	933829.4	629853.1	51.787	676.177R	-1370.48	7		
Transitional	40457	TREE	931752.6	629874.3	38.77	654.959R	706.299	7		
Transitional	40529	TREE	931939.1	629971.1	24.562	558.188R	519.783	7		
Transitional	40881	TREE	932798	629757.9	58.11	771.383R	-339.069	7		
Transitional	40913	TREE	932822.5	629782.9	54.937	746.345R	-363.619	7		
Transitional	40945	TREE	933015	629813.8	51.866	715.451R	-556.071	7		
Transitional	40977	TREE	933192.2	629849.7	47.546	679.528R	-733.308	7		



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			EASTING	NORTHING						
Transitional	41273	TREE	934085.5	629679.9	78.022	849.353R	-1626.65	7		
Transitional	41393	TREE	934280.6	629819.9	59.73	709.301R	-1821.72	7		
Approach	32356	TREE	931690.5	629975.7	27.498	553.522R	768.41	6		
Approach	32428	TREE	931601.1	630019.9	28.78	509.321R	857.797	6		
Approach	33028	POLE	930421.8	629770.7	53.013	758.553R	2037.125	6	41.917	11.096
Transitional	3761	TREE	934544.8	629755.6	69.146	773.663R	-2085.89	6		
Transitional	40465	TREE	931804.7	629868.5	38.298	660.741R	654.154	6		
Transitional	41225	TREE	934027.7	629855.2	51.36	674.020R	-1568.76	6		
Transitional	41585	TREE	935232.5	629797.6	68.539	731.570R	-2773.57	6		
Approach	6340	TREE	931128.1	630586.3	37.471	56.997L	1330.8	5		
Approach	30308	TREE	931131.7	630261.8	37.379	267.483R	1327.237	5		
Approach	31856	TREE	931111.2	631074.3	38.433	545.003L	1347.695	5		
Approach	31912	TREE	931215.5	630919.8	35.868	390.541L	1243.422	5		
Approach	32364	TREE	931666.4	629947.3	26.688	581.972R	792.48	5		
Approach	32580	TREE	931135.6	630198.5	37.859	330.731R	1323.32	5		
Approach	32724	TREE	930807.5	630897.2	43.9	367.897L	1651.434	5		
Approach	32900	TREE	930851.1	630735.8	43.225	206.478L	1607.836	5		
Transitional	3769	TREE	934665.9	629839.4	57.554	689.810R	-2207.01	5		
Transitional	3785	TREE	934845.4	629730.6	74.573	798.583R	-2386.53	5		
Transitional	3833	TREE	935682.6	629837.9	64.349	691.275R	-3223.74	5		
Transitional	40393	POLE	930661.4	629767.2	50.65	762.114R	1797.533	5	43.841	6.809





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			EASTING	NORTHING						
Transitional	40793	TREE	932627.7	629782.5	51.36	746.739R	-168.779	5		
Transitional	40865	TREE	932758.9	629757.5	55.477	771.793R	-299.977	5		
Transitional	41137	TREE	933392.6	629775.9	57.367	753.324R	-933.74	5		
Transitional	41161	TREE	933623.6	629811.4	54.397	717.796R	-1164.74	5		
Transitional	41353	TREE	934313.2	629802.6	60.54	726.626R	-1854.28	5		
Transitional	41713	TREE	934852.2	629761.9	69.889	767.294R	-2393.27	5		
Transitional	41897	TREE	935846.8	629802.1	71.239	727.080R	-3387.9	5		
Approach	6332	TREE	931588.2	630418.7	27.256	110.591R	870.728	4		
Approach	6348	TREE	931136.8	630597.6	36.553	68.297L	1322.11	4		
Approach	31680	TREE	931561.2	630202.4	28.375	326.867R	897.673	4		
Approach	32420	TREE	931607.5	630041.7	26.688	487.559R	851.415	4		
Approach	32532	TREE	931385.1	630126.5	31.311	402.768R	1073.794	4		
Approach	32660	TREE	931064.1	629880.7	37.589	648.525R	1394.805	4		
Approach	32828	TREE	930924	630679.7	40.39	150.375L	1534.948	4		
Approach	33036	POLE	930394.6	629883.4	51.359	645.897R	2064.254	4	40.601	10.758
Approach	33559	RUNWAY_LIGHT	941658.4	630528.7	88.834	0.426R	-9199.5	4	84.3	4.534
Approach	40287	TREE	928776.5	631541	84.164	1011.705L	3682.377	4		
Transitional	3689	TREE	933163.5	629853.8	43.766	675.484R	-704.587	4		
Transitional	4351	TREE	939017.5	629959.6	68.624	569.525R	-6558.57	4		
Transitional	8827	CONTROL_TOWER	933121.3	632210.4	187.537	1681.175L	-662.383	4	180.18	7.357



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			EASTING	NORTHING						
Transitional	40609	TREE	932267.1	629841.6	41.37	687.691R	191.806	4		
Transitional	40857	TREE	932738.9	629758.1	55.072	771.149R	-279.963	4		
Transitional	40905	TREE	932841.4	629782.4	51.63	746.864R	-382.484	4		
Transitional	40953	TREE	933068.7	629798.3	51.731	730.965R	-609.803	4		
Transitional	40985	TREE	933237.2	629846.7	45.049	682.561R	-778.304	4		
Transitional	40993	TREE	933263.7	629832.8	47.276	696.479R	-804.811	4		
Transitional	41489	TREE	934746.2	629836.4	57.401	692.814R	-2287.29	4		
Transitional	41561	TREE	935143.4	629776.9	68.876	752.342R	-2684.48	4		
Transitional	41705	TREE	934839	629763	68.674	766.210R	-2380.06	4		
Transitional	41721	TREE	934846.6	629750.7	70.429	778.489R	-2387.75	4		
Transitional	41881	TREE	935732.2	629825.7	65.839	703.487R	-3273.29	4		
Approach	6356	TREE	931122.7	630609.4	35.864	80.114L	1336.234	3		
Approach	6527	TREE	930806.4	630605.5	42.483	76.175L	1652.495	3		
Approach	31824	TREE	931072.2	631195.3	36.88	666.035L	1386.727	3		
Approach	32676	TREE	931116.1	629868.2	35.564	661.064R	1342.778	3		
Approach	32844	TREE	930849.1	630667	41.605	137.758L	1609.815	3		
Approach	32852	TREE	930901	630592.4	40.255	63.114L	1557.891	3		
Approach	32940	TREE	930932.3	629933.6	39.243	595.665R	1526.57	3		
Approach	33100	BILLBOARD	930066.6	630079.6	56.59	449.708R	2392.335	3	47.756	8.834
Approach	33229	RUNWAY_LIGHT	941258.5	630528.8	80.329	0.307R	-8799.62	3	76.3	4.029
Approach	33535	RUNWAY_LIGHT	941458.5	630500.8	84.379	28.342R	-8999.58	3	79.89	4.489



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			EASTING	NORTHING						
Approach	33543	RUNWAY_LIGHT	941458.7	630528.7	84.379	0.423R	-8999.75	3	79.89	4.489
Approach	33551	RUNWAY_LIGHT	941458.6	630556.7	84.379	27.567L	-8999.68	3	79.89	4.489
Approach	33567	RUNWAY_LIGHT	941858.4	630528.7	92.141	0.415R	-9399.44	3	87.6	4.541
Approach	40239	RUNWAY_LIGHT	931658.6	630529.2	25.234	0.026R	800.358	3	19.946	5.288
Approach	40247	RUNWAY_LIGHT	931288.3	630557.2	32.591	27.959L	1170.596	3	24.165	8.426
Approach	40255	RUNWAY_LIGHT	931288.3	630529	32.524	0.274R	1170.583	3	23.997	8.527
Approach	40263	RUNWAY_LIGHT	931288.3	630500.8	32.524	28.428R	1170.604	3	23.862	8.662
Approach	40271	RUNWAY_LIGHT	931058.6	630529.2	37.553	0.079R	1400.315	3	32.028	5.525
Approach	40279	RUNWAY_LIGHT	930857.8	630530.1	41.029	0.848L	1601.141	3	35.91	5.119
Transitional	3841	TREE	935808.6	629752.3	75.572	776.895R	-3349.7	3		
Transitional	30185	TREE	932631.8	629754.4	53.914	774.834R	-172.898	3		
Transitional	40433	TREE	931146.4	629852.1	36.88	677.215R	1312.457	3		
Transitional	40721	TREE	932416.7	629824.2	42.18	705.043R	42.239	3		
Transitional	40841	TREE	932697.4	629757.3	53.79	771.977R	-238.484	3		
Transitional	40961	TREE	933080.6	629823.1	46.601	706.108R	-621.656	3		
Transitional	41049	TREE	932930.7	629814.4	47.31	714.880R	-471.85	3		
Transitional	41217	TREE	933986.5	629856.9	47.917	672.361R	-1527.57	3		
Transitional	41305	TREE	934224.8	629757.9	64.32	771.290R	-1765.93	3		
Transitional	41425	TREE	934438	629833.6	54.364	695.595R	-1979.07	3		
Transitional	41697	TREE	934825.9	629757.9	67.999	771.275R	-2367.02	3		
Transitional	41729	TREE	934853.6	629739.9	70.429	789.279R	-2394.66	3		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Transitional	41785	TREE	934873.8	629773.9	65.906	755.314R	-2414.92	3		
Transitional	42073	TREE	931100.2	631213.9	38.191	684.612L	1358.693	3		
Approach	6519	TREE	930882.5	630715.1	39.783	185.841L	1576.408	2		
Approach	6599	POWER_TRANS MISSION_PYLON	929123.7	630518	74.938	11.259R	3335.246	2	66.816	8.122
Approach	30300	TREE	930945.6	630754.2	38.095	224.899L	1513.277	2		
Approach	31880	TREE	931171.4	630985.1	33.438	455.861L	1287.486	2		
Approach	32516	TREE	931516.4	630162.5	26.451	366.808R	942.473	2		
Approach	32572	TREE	931165.8	630147	33.944	382.289R	1293.064	2		
Approach	32668	TREE	931076.5	629858.2	35.699	671.100R	1382.386	2		
Approach	32716	TREE	930851.1	630884.7	39.985	355.449L	1607.83	2		
Approach	32732	TREE	930884.1	630853	39.58	323.722L	1574.853	2		
Approach	32924	TREE	930999	629966.6	36.88	562.676R	1459.856	2		
Approach	33164	POLE	929138.2	629990.8	74.191	538.469R	3320.658	2	65.205	8.986
Transitional	6804	TREE	932004	629879.3	32.863	649.921R	454.853	2		
Transitional	30201	TREE	932419.2	629850.7	37.579	678.545R	39.747	2		
Transitional	40737	TREE	932430.5	629746.9	51.9	782.301R	28.366	2		
Transitional	41041	TREE	932954.4	629805.6	47.107	723.642R	-495.527	2		
Transitional	41073	TREE	932861.7	629781.2	50.752	748.061R	-402.769	2		
Transitional	41129	TREE	933502.3	629826.2	47.917	702.999R	-1043.42	2		
Transitional	41169	TREE	933600.2	629799.8	52.305	729.393R	-1141.27	2		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Transitional	41297	TREE	934207	629763.9	61.687	765.344R	-1748.09	2		
Transitional	41313	TREE	934239.3	629748.7	64.691	780.559R	-1780.41	2		
Transitional	41369	TREE	934232.2	629846.8	50.482	682.399R	-1773.26	2		
Transitional	41457	TREE	934484	629753.4	65.029	775.811R	-2025.06	2		
Transitional	41497	TREE	934711	629853.9	52.676	675.295R	-2252.13	2		
Transitional	41665	TREE	934797.3	629743.1	68.876	786.092R	-2338.36	2		
Transitional	41689	TREE	934831.8	629732.8	70.766	796.401R	-2372.92	2		
Transitional	41737	TREE	934858	629750.2	68.201	778.964R	-2399.13	2		
Transitional	41793	TREE	934861.5	629770.1	65.704	759.109R	-2402.61	2		
Approach	6372	TREE	931064.6	630766.5	34.87	237.270L	1394.3	1		
Approach	6479	TREE	930632.7	630773.3	43.289	243.970L	1826.227	1		
Approach	6503	TREE	930783.9	630765.5	40.458	236.226L	1674.989	1		
Approach	6535	TREE	930944.7	630616.2	37.083	86.944L	1514.204	1		
Approach	30292	TREE	930881.6	630809	38.568	279.732L	1577.356	1		
Approach	31712	FENCE	932043.7	630000.4	15.078	528.883R	415.223	1	8.842	6.236
Approach	31904	TREE	931183.5	630951.7	32.763	422.410L	1275.429	1		
Approach	32404	TREE	931576	630068.8	25.135	460.460R	882.939	1		
Approach	32556	TREE	931245.3	630141.4	30.906	387.863R	1213.61	1		
Approach	32700	TREE	930839.4	631004.5	39.175	475.193L	1619.515	1		
Approach	32812	TREE	930934.4	630821.9	37.42	292.658L	1524.545	1		
Approach	32916	TREE	931030.3	629946.7	35.395	582.564R	1428.568	1		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	32948	TREE	930939.2	630037.6	37.825	491.635R	1519.739	1		
Approach	33052	POLE	929933.3	631375.8	57.164	846.496L	2525.636	1	39.69	17.474
Approach	33196	BUILDING	929349.9	629791.2	69.061	738.060R	3108.995	1	59.636	9.425
Primary	39991	SIGN	939458.7	630383.6	59.389	145.535R	-6999.76	1	4.488	54.901
Transitional	40521	TREE	931797.7	629920.5	26.316	608.742R	661.18	1		
Transitional	40617	TREE	932274.7	629787.7	45.487	741.599R	184.186	1		
Transitional	41057	TREE	932873.4	629847.3	39.885	681.929R	-414.474	1		
Transitional	41289	TREE	934197.9	629807.9	54.195	721.370R	-1739.02	1		
Transitional	41569	TREE	935207.1	629769	66.986	760.218R	-2748.23	1		
Transitional	41673	TREE	934808.4	629738.6	68.539	790.624R	-2349.5	1		
Transitional	41681	TREE	934818.5	629735.3	69.011	793.904R	-2359.58	1		
Transitional	41745	TREE	934865.7	629740.9	68.404	788.275R	-2406.76	1		
Transitional	41753	TREE	934880	629743.5	68.539	785.693R	-2421.13	1		
Transitional	41889	TREE	935757.5	629795.3	67.391	733.903R	-3298.57	1		
Transitional	42089	TREE	931080.6	631244.1	40.081	714.822L	1378.276	1		

SOURCE: Quantum Spatial, Inc., *Fort Lauderdale/Hollywood International Airport Geographic Information System Update*, December 2015.

PREPARED BY: Ricondo & Associates, Inc., January 2017.



Table B-2: Runway 10L-28R Part 77 Surfaces Penetrations

SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Horizontal	20266	CRANE	944955.1	639440.7	271.718	4905.408L	-15211.2	57	196.728	74.99
Primary	10183	ANTENNA	937081.3	634842.8	56.398	308.674L	-7336.69	51	51.948	4.45
Transitional	13267	CRANE	939772.1	633460.6	132.657	1073.908R	-10027.2	47	125.82	6.837
Transitional	35608	TREE	927289.7	633661.5	100.309	871.109R	2455.164	45		
Transitional	38448	TREE	928325.6	635360.5	94.436	827.773L	1418.976	44		
Transitional	16957	TREE	928369.7	635366.4	94.549	833.669L	1374.838	43		
Approach	35624	TREE	927107.4	633730.3	96.529	802.326R	2637.459	42		
Approach	35616	TREE	927115.9	633680	91.264	852.542R	2628.915	37		
Transitional	8867	TREE	927239.2	633605.7	99.737	926.911R	2505.64	36		
Transitional	23746	TREE	941014.5	633702.4	85.735	832.264R	-11269.7	36		
Horizontal	18814	CRANE	945565.5	637893.6	250.118	3358.218L	-15821.3	35	244.314	5.804
Approach	35632	TREE	927105.7	633772.4	88.429	760.202R	2639.057	34		
Transitional	35656	TREE	927300.5	633580.6	100.579	952.039R	2444.334	34		
Approach	20842	TREE	940964.1	633758	77.77	776.675R	-11219.3	32		
Approach	35640	TREE	927160.1	633719.3	85.594	813.284R	2584.701	32		
Transitional	35472	TREE	927718.8	633635.8	90.791	896.866R	2026.067	31		
Transitional	38456	TREE	928288.5	635404.9	88.226	872.186L	1456.017	31		
Transitional	16949	TREE	928314.3	635440.2	91.399	907.394L	1430.206	29		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Transitional	23730	TREE	940917.3	633684.1	80.538	850.546R	-11172.5	28		
Transitional	23738	TREE	940972	633710.3	77.23	824.411R	-11227.2	28		
Transitional	23858	TREE	941106.8	633642.6	84.52	892.093R	-11361.9	26		
Transitional	35464	TREE	927577.6	633558.8	96.461	973.837R	2167.193	26		
Primary	9871	COMMUNICATION_TOWER	931310.7	634806.9	30.901	273.707L	-1566.07	25	28.494	2.407
Approach	12365	TREE	940725.1	634261.1	64.603	273.516R	-10980.4	24		
Approach	35544	TREE	927497	633732.8	70.406	799.855R	2247.825	24		
Approach	20234	CRANE	945709.9	633112.9	163.507	1422.475R	-15965	23	156.33	7.177
Approach	35520	TREE	927452.9	633746.6	70.946	786.016R	2291.884	23		
Approach	20834	TREE	941017.7	633744.2	68.995	790.475R	-11272.9	22		
Approach	35528	TREE	927405	633716.7	70.001	815.959R	2339.792	22		
Approach	16528	TREE	927756.6	634339.4	62.288	193.250R	1988.111	21		
Approach	20850	TREE	941023.6	633765.5	67.915	769.208R	-11278.8	21		
Horizontal	9139	SHIP	945035	638908.5	235.759	4373.205L	-15291	21	236.115	-0.356
Transitional	23850	TREE	941189.3	633623.4	82.023	911.347R	-11444.4	21		
Transitional	38472	TREE	928341	635313.8	64.871	780.988L	1403.557	21		
Transitional	35480	TREE	927731.3	633679.3	73.781	853.416R	2013.488	20		
Transitional	38464	TREE	928419.5	635299.4	62.441	766.603L	1325.025	20		
Approach	8803	TREE	941939.7	633739.4	83.978	795.442R	-12194.9	19		
Approach	16520	TREE	927775	634332	59.638	200.642R	1969.678	19		
Approach	20858	TREE	941010.7	633806.4	65.924	728.250R	-11265.9	19		





SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	21002	POLE	940391.7	635223.8	52.521	689.203L	-10647.1	18	40.871	11.65
Horizontal	31618	CRANE	944687.3	639025.5	232.906	4490.228L	-14943.3	18	226.226	6.68
Approach	16104	TREE	942706.7	635306.6	97.392	771.695L	-12962.1	17		
Approach	16432	TREE	928541.1	634258.4	42.736	274.393R	1203.59	17		
Approach	20610	TREE	941724.5	633677.5	78.002	857.316R	-11979.7	17		
Approach	34792	RAILROAD	939313.8	635084.6	30.148	550.218L	-9569.19	17	23	7.148
Approach	36280	TREE	927578.1	635147.5	62.137	614.883L	2166.464	17		
Approach	37632	RUNWAY_LIGHT	929091	634533.1	31.627	0.207L	653.718	17	20.418	11.209
Transitional	35264	TREE	928079.9	633702.8	67.436	829.879R	1664.945	17		
Approach	20562	TREE	941942.9	633693.1	81.242	841.747R	-12198.1	16		
Approach	21866	TREE	940597.8	635213.2	54.444	678.556L	-10853.2	16		
Approach	22778	RAILROAD	939383.5	635000.4	29.659	466.009L	-9638.84	16	23	6.659
Approach	35552	TREE	927506.6	633767.2	62.779	765.406R	2238.254	16		
Approach	36592	TREE	927656.7	633850.3	59.775	682.352R	2088.119	16		
Transitional	17085	BILLBOARD	928727.8	633848.6	47.152	684.185R	1017.024	16	41.85	5.302
Transitional	35272	TREE	928095	633647.3	74.794	885.393R	1649.851	16		
Transitional	35320	TREE	928196.7	633601.8	80.801	930.985R	1548.125	16		
Approach	20218	CRANE	945874.4	633092.3	158.593	1443.090R	-16129.5	15	151.942	6.651
Approach	22770	RAILROAD	939432.8	634936.8	29.625	402.396L	-9688.16	15	23	6.625
Approach	24274	TREE	942814.2	635329.4	98.122	794.448L	-13069.6	15		
Approach	36512	TREE	928019.9	634006.9	51.607	525.789R	1724.905	15		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	37496	RAILROAD	928923.5	633943.5	32.96	589.377R	821.288	15	23	9.96
Approach	37624	RUNWAY_LIGHT	928871.9	634533.4	33.652	0.532L	872.828	15	28.113	5.539
Approach	37896	INTERSTATE	929381.1	634011.5	24.361	521.456R	363.654	15	17	7.361
Approach	37904	INTERSTATE	929342.1	634157.9	24.564	374.987R	402.674	15	17	7.564
Approach	37912	INTERSTATE	929323.7	634226.6	24.597	306.305R	421.069	15	17	7.597
Approach	37920	INTERSTATE	929361.1	634087.4	24.53	445.550R	383.654	15	17	7.53
Approach	38024	PRIMARY_ROAD	929512.6	634030	20.91	502.964R	232.168	15	15	5.91
Primary	34328	POLE	931320	634835.4	20.524	302.202L	-1575.32	15	17.718	2.806
Transitional	35336	TREE	928126.3	633592.8	81.071	939.919R	1618.521	15		
Approach	21882	TREE	940620	635191.2	52.487	656.597L	-10875.4	14		
Approach	21930	TREE	940619.4	635150.1	53.094	615.462L	-10874.8	14		
Approach	24242	TREE	942743.7	635334.3	95.557	799.308L	-12999.1	14		
Approach	24250	TREE	942671.7	635350.4	94.207	815.483L	-12927.1	14		
Approach	31261	INTERSTATE	929284.2	634391.2	24.604	141.727R	460.536	14	17	7.604
Approach	31269	INTERSTATE	929303.2	634306.4	24.705	226.473R	441.569	14	17	7.705
Approach	33674	RUNWAY_LIGHT	939791.9	634534	36.656	0.456R	-10047.3	14	33	3.656
Approach	37504	RAILROAD	928888.1	634097.6	32.69	435.226R	856.658	14	23	9.69
Approach	37520	RAILROAD	928907.1	634015.5	32.825	517.382R	837.668	14	23	9.825
Approach	37640	RUNWAY_LIGHT	929301.8	634532.9	24.506	0.034L	442.892	14	19.912	4.594
Approach	37648	RUNWAY_LIGHT	929301.8	634560.9	24.574	27.947L	442.857	14	19.947	4.627
Approach	37656	RUNWAY_LIGHT	929301.8	634505	24.574	27.956R	442.926	14	19.868	4.706



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	37864	INTERSTATE	929208.3	633985.5	26.757	547.368R	536.453	14	17	9.757
Approach	37888	INTERSTATE	929185.3	634062.4	26.386	470.458R	559.51	14	17	9.386
Approach	37928	INTERSTATE	929292.3	633999.6	24.766	533.319R	452.5	14	17	7.766
Approach	37936	INTERSTATE	929252	634144.2	24.969	388.745R	492.718	14	17	7.969
Approach	37952	INTERSTATE	929272.7	634069.3	24.834	463.655R	472.096	14	17	7.834
Approach	38056	PRIMARY_ROAD	929480.9	634122.1	21.112	410.832R	263.886	14	15	6.112
Transitional	17011	TREE	927960.2	633625.9	75.914	906.846R	1784.656	14		
Transitional	20226	CRANE	945718.1	633001.5	157.621	1533.846R	-15973.2	14	150.761	6.86
Transitional	35304	TREE	928172.2	633654.5	71.925	878.219R	1572.603	14		
Transitional	35328	TREE	928214	633580.1	82.084	952.652R	1530.818	14		
Approach	13515	TREE	940934.9	634547.4	58.006	12.708L	-11190.2	13		
Approach	13603	TREE	940835	634223.5	55.698	311.150R	-11090.2	13		
Approach	20538	TREE	941923.8	634163.1	78.339	371.739R	-12179	13		
Approach	21874	TREE	940611	635203.9	51.542	669.324L	-10866.4	13		
Approach	21890	TREE	940598.4	635169.1	51.879	634.450L	-10853.8	13		
Approach	21898	TREE	940596.7	635183.1	51.339	648.475L	-10852.1	13		
Approach	22762	RAILROAD	939487.4	634861.3	29.558	326.881L	-9742.73	13	23	6.558
Approach	31245	INTERSTATE	929253.5	634572.4	24.098	39.520L	491.162	13	17	7.098
Approach	31253	INTERSTATE	929268.4	634470.9	24.469	62.049R	476.262	13	17	7.469
Approach	31277	INTERSTATE	929211.6	634302.6	25.515	230.336R	533.083	13	17	8.515
Approach	31285	INTERSTATE	929191	634394.8	25.819	138.060R	553.759	13	17	8.819



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	31293	INTERSTATE	929169.9	634493.4	26.089	39.489R	574.775	13	17	9.089
Approach	31301	INTERSTATE	929150.7	634594.5	26.393	61.560L	594.008	13	17	9.393
Approach	31309	INTERSTATE	929134	634685.7	26.629	152.845L	610.678	13	17	9.629
Approach	31317	INTERSTATE	929119.9	634772.2	26.899	239.269L	624.79	13	17	9.899
Approach	31445	RAILROAD	928848.1	634272.7	32.46	260.115R	896.599	13	23	9.46
Approach	35600	TREE	927459	633840.4	60.079	692.281R	2285.773	13		
Approach	37512	RAILROAD	928868.9	634182.1	32.622	350.745R	875.863	13	23	9.622
Approach	37712	INTERSTATE	929098.4	634941.6	27.129	408.687L	646.228	13	17	10.129
Approach	37720	INTERSTATE	929108.1	634858.5	27.061	325.591L	636.577	13	17	10.061
Approach	37872	INTERSTATE	929164.9	634138.6	26.285	394.281R	579.829	13	17	9.285
Approach	37944	INTERSTATE	929231	634224	25.374	308.935R	513.767	13	17	8.374
Approach	38048	PRIMARY_ROAD	929439.3	634209.1	20.91	323.842R	305.486	13	15	5.91
Horizontal	18982	CRANE	944893.6	641866.2	228.158	7330.941L	-15150.1	13	225.509	2.649
Transitional	17037	TREE	928552.2	633774.9	54.053	757.943R	1192.62	13		
Transitional	23874	TREE	941169.8	633667.6	67.915	867.156R	-11425	13		
Transitional	35496	TREE	927739.3	633548.8	85.256	983.832R	2005.545	13		
Transitional	38424	TREE	927447.8	635403.8	68.584	871.161L	2296.719	13		
Transitional	39024	POLE	934657.6	635187.4	40.166	653.692L	-4912.98	13	34.155	6.011
Approach	13611	TREE	940814.3	634233.3	54.888	301.324R	-11069.6	12		
Approach	16440	TREE	928560.3	634338.6	37.147	194.175R	1184.385	12		
Approach	20322	POLE	943974	633400.1	117.456	1135.026R	-14229.2	12	104.287	13.169



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	20330	POLE	944030.3	633692.7	119.379	842.477R	-14285.5	12	105.132	14.247
Approach	20530	TREE	941906	634198.3	76.247	336.489R	-12161.3	12		
Approach	21938	TREE	940630.1	635127.3	50.934	592.679L	-10885.5	12		
Approach	21954	TREE	940651.7	635136.3	51.879	601.658L	-10907.1	12		
Approach	22786	RAILROAD	939541.5	634780.1	29.558	245.601L	-9796.81	12	23	6.558
Approach	24234	TREE	942785.3	635351.3	93.802	816.387L	-13040.7	12		
Approach	31229	INTERSTATE	929237.2	634763.7	23.355	230.820L	507.412	12	17	6.355
Approach	31237	INTERSTATE	929243.6	634663.3	23.76	130.382L	501.105	12	17	6.76
Approach	31365	INTERSTATE	929123	634295.5	25.752	237.340R	621.679	12	17	8.752
Approach	31453	RAILROAD	928826.8	634366.1	32.46	166.744R	917.871	12	23	9.46
Approach	31461	RAILROAD	928805.6	634458.3	32.258	74.499R	939.122	12	23	9.258
Approach	35536	TREE	927366.9	633734.3	61.631	798.352R	2377.893	12		
Approach	36480	TREE	928013.4	634101.6	47.962	431.080R	1731.373	12		
Approach	37032	TREE	928546.1	634229.1	37.635	303.661R	1198.593	12		
Approach	37704	INTERSTATE	929081.6	635100	27.095	567.074L	663.033	12	17	10.095
Approach	37728	INTERSTATE	929089.2	635021.3	27.196	488.464L	655.41	12	17	10.196
Approach	37808	INTERSTATE	929236.3	634961.6	23.619	428.733L	508.365	12	17	6.619
Approach	37816	INTERSTATE	929234.6	634865.8	23.517	332.944L	510.068	12	17	6.517
Approach	37880	INTERSTATE	929144.8	634213.9	25.981	318.980R	599.983	12	17	8.981
Approach	38008	PRIMARY_ROAD	929352.9	634530.8	21.011	2.134R	391.772	12	15	6.011
Approach	38032	PRIMARY_ROAD	929366.5	634423.9	20.775	108.989R	378.195	12	15	5.775



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	38040	PRIMARY_ROAD	929399.5	634302.8	20.842	230.172R	345.19	12	15	5.842
Approach	38664	INTERSTATE	929241.9	635055.9	23.855	523.023L	502.674	12	17	6.855
Transitional	15962	POLE	939057.2	635223.4	43.802	689.017L	-9312.65	12	35.505	8.297
Transitional	17019	TREE	928165.8	633627	73.754	905.737R	1578.979	12		
Transitional	35280	TREE	928199.2	633710.4	61.867	822.379R	1545.631	12		
Transitional	36976	TREE	928521.4	635211.3	41.887	678.469L	1223.225	12		
Approach	13635	TREE	940940.5	634216.7	56.607	317.943R	-11195.8	11		
Approach	14203	POLE	943996.9	634188.5	117.447	346.592R	-14252.1	11	103.95	13.497
Approach	16616	TREE	926875.5	634750.8	69.605	218.285L	2869.128	11		
Approach	16648	TREE	926830.9	634492.2	70.802	40.298R	2913.776	11		
Approach	20338	POLE	943950.2	633909.3	116.173	625.836R	-14205.4	11	103.646	12.527
Approach	20498	TREE	941913	633774.3	75.369	760.529R	-12168.2	11		
Approach	20506	TREE	941939.3	633933.4	76.517	601.376R	-12194.5	11		
Approach	20546	TREE	941775.6	633621.8	72.669	912.950R	-12030.8	11		
Approach	21922	TREE	940632.1	635161.1	49.652	626.510L	-10887.5	11		
Approach	22794	RAILROAD	939599.4	634686.2	29.558	151.729L	-9854.73	11	23	6.558
Approach	31349	INTERSTATE	929079.5	634490.2	25.65	42.669R	665.213	11	17	8.65
Approach	31357	INTERSTATE	929100	634395.9	25.718	136.945R	644.753	11	17	8.718
Approach	31437	RAILROAD	928788	634534.5	31.954	1.650L	956.689	11	23	8.954
Approach	31485	RAILROAD	928768.6	634620.2	31.92	87.340L	976.112	11	23	8.92
Approach	34784	PRIMARY_ROAD	939238.6	635072.9	21.743	538.467L	-9493.96	11	15	6.743



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	36216	TREE	927439.4	633912.9	58.762	619.735R	2305.372	11		
Approach	36576	TREE	927709	633776.9	53.16	755.806R	2035.815	11		
Approach	37664	RUNWAY_LIGHT	929481.7	634533.1	18.229	0.196L	262.949	11	11.509	6.72
Approach	37856	INTERSTATE	928994.9	634030.4	27.264	502.450R	749.839	11	17	10.264
Approach	37960	PRIMARY_ROAD	929345.3	634758.2	20.809	225.274L	399.313	11	15	5.809
Approach	37984	PRIMARY_ROAD	929343.2	634859.8	20.707	326.915L	401.469	11	15	5.707
Approach	38016	PRIMARY_ROAD	929348.2	634634.7	20.91	101.828L	396.522	11	15	5.91
Approach	38632	PRIMARY_ROAD	929341.7	634983.7	20.505	450.743L	402.874	11	15	5.505
Transitional	23866	TREE	941085.4	633608.9	74.328	925.824R	-11340.5	11		
Transitional	35288	TREE	928181.9	633696.6	62.846	836.158R	1562.952	11		
Transitional	35488	TREE	927714.9	633724.8	57.581	807.904R	2029.866	11		
Approach	14211	POLE	943916.8	634455.9	114.891	79.224R	-14172.1	10	101.925	12.966
Approach	16464	TREE	928442	634359	37.849	173.757R	1302.687	10		
Approach	20386	TREE	941904.8	634981.3	74.188	446.498L	-12160.2	10		
Approach	20578	TREE	941922.9	633818.6	75.369	716.212R	-12178.1	10		
Approach	21178	TREE	940577.5	634945.9	47.627	411.290L	-10832.9	10		
Approach	21906	TREE	940610.5	635188.6	48.707	654.005L	-10865.9	10		
Approach	21946	TREE	940657.9	635148.6	49.989	613.975L	-10913.4	10		
Approach	21962	TREE	940661.8	635137.4	50.057	602.777L	-10917.2	10		
Approach	21994	TREE	940643.9	635126.4	49.112	591.737L	-10899.3	10		
Approach	22802	RAILROAD	939648.7	634598	29.659	63.567L	-9904.06	10	23	6.659



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	31325	INTERSTATE	929028.2	634775.8	26.022	242.966L	716.417	10	17	9.022
Approach	31333	INTERSTATE	929043.2	634684.6	25.617	151.724L	701.498	10	17	8.617
Approach	31341	INTERSTATE	929059.9	634590.1	25.684	57.252L	684.814	10	17	8.684
Approach	31373	INTERSTATE	928967	634283.2	26.697	249.664R	777.719	10	17	9.697
Approach	31477	RAILROAD	928747.4	634712.2	31.853	179.374L	997.225	10	23	8.853
Approach	33666	RUNWAY_LIGHT	939592.1	634534.3	27.847	0.177R	-9847.41	10	20.86	6.987
Approach	33682	RUNWAY_LIGHT	939989.8	634534.4	36.251	0.151R	-10245.1	10	31.29	4.961
Approach	36560	TREE	928039.5	633969.5	45.33	563.196R	1705.288	10		
Approach	36584	TREE	927704.4	633798	52.147	734.637R	2040.418	10		
Approach	36968	TREE	928566	635060	34.867	527.153L	1178.643	10		
Approach	37008	TREE	928652.2	634173.6	32.977	359.168R	1092.495	10		
Approach	37616	RUNWAY_LIGHT	928671.6	634533.4	32.674	0.582L	1073.054	10	27.979	4.695
Approach	37736	INTERSTATE	928987.8	635113.9	27.196	581.034L	756.839	10	17	10.196
Approach	37744	INTERSTATE	929005.2	634947.7	26.487	414.851L	739.427	10	17	9.487
Approach	37752	INTERSTATE	928995.7	635032	26.892	499.174L	748.887	10	17	9.892
Approach	37760	INTERSTATE	929016.2	634859.4	26.184	326.525L	728.402	10	17	9.184
Approach	37840	INTERSTATE	928985.1	634114.6	27.23	418.230R	759.657	10	17	10.23
Approach	37848	INTERSTATE	928974.8	634202.2	27.061	330.698R	769.961	10	17	10.061
Transitional	35192	TREE	928593.2	633804.5	47.355	728.334R	1151.597	10		
Transitional	35312	TREE	928242.4	633689.2	62.914	843.515R	1502.445	10		
Approach	13427	TREE	940708	634517.7	49.582	16.938R	-10963.3	9		





SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	13619	TREE	940857.6	634248.2	52.561	286.423R	-11112.9	9		
Approach	16096	TREE	941935.6	634998.3	74.55	463.469L	-12191	9		
Approach	20586	TREE	941971.6	633674.8	74.661	860.049R	-12226.8	9		
Approach	22010	TREE	940638.7	635114	48.167	579.337L	-10894.1	9		
Approach	22026	TREE	940667.4	635104.6	48.302	569.969L	-10922.8	9		
Approach	22810	RAILROAD	939693.6	634511.3	29.524	23.173R	-9948.89	9	23	6.524
Approach	22818	RAILROAD	939730.5	634432.5	29.659	102.006R	-9985.83	9	23	6.659
Approach	31381	INTERSTATE	928957.3	634370.9	26.73	161.984R	787.438	9	17	9.73
Approach	31389	INTERSTATE	928952.7	634464.3	26.933	68.590R	791.959	9	17	9.933
Approach	31397	INTERSTATE	928943.4	634560.1	26.865	27.251L	801.313	9	17	9.865
Approach	31405	INTERSTATE	928936.7	634628.4	26.933	95.549L	808.012	9	17	9.933
Approach	31413	INTERSTATE	928928.3	634704.3	26.798	171.454L	816.329	9	17	9.798
Approach	31421	INTERSTATE	928919.5	634783.9	26.832	251.026L	825.192	9	17	9.832
Approach	31429	RAILROAD	928728	634797.6	31.414	264.795L	1016.607	9	23	8.414
Approach	36168	TREE	927535.9	634055.7	55.252	476.933R	2208.896	9		
Approach	37552	RAILROAD	928708.4	634883.1	31.239	350.284L	1036.246	9	23	8.239
Approach	37776	INTERSTATE	928901.4	634957.5	27.095	424.665L	843.188	9	17	10.095
Approach	37792	INTERSTATE	928911.2	634866.7	26.926	333.835L	833.456	9	17	9.926
Approach	38112	FENCE	929528.2	634040.5	14.482	492.431R	216.518	9	8.877	5.605
Approach	38544	INTERSTATE	928890.8	635062.1	27.77	529.241L	853.808	9	17	10.77
Transitional	35344	TREE	928162.5	633535.1	83.434	997.626R	1582.321	9		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Transitional	35376	TREE	928143	633461.8	94.369	1070.933R	1601.84	9		
Transitional	38416	TREE	927041.3	635537.6	83.265	1005.016L	2703.208	9		
Transitional	38928	POLE	931190.6	635193.1	37.804	659.915L	-1446.03	9	34.053	3.751
Approach	16152	FENCE	929407.2	634316.1	16.055	216.807R	337.534	8	10.017	6.038
Approach	16456	TREE	928530	634356.4	33.988	176.433R	1214.697	8		
Approach	20994	POLE	940581.2	635089.9	46.108	555.245L	-10836.6	8	41.04	5.068
Approach	21594	TREE	940741.6	633925	48.977	609.641R	-10996.8	8		
Approach	21618	TREE	940752.9	633841.6	49.218	693.031R	-11008.1	8		
Approach	21986	TREE	940634.5	635146.1	46.682	611.507L	-10889.9	8		
Approach	22018	TREE	940652.4	635109.8	47.087	575.185L	-10907.8	8		
Approach	22738	PRIMARY_ROAD	939318.1	634979.7	21.187	445.269L	-9573.48	8	15	6.187
Approach	22826	RAILROAD	939764.9	634352	29.693	182.452R	-10020.2	8	23	6.693
Approach	23714	TREE	940973.3	633802.1	54.314	732.609R	-11228.5	8		
Approach	33658	RUNWAY_LIGHT	939411.9	634534.4	23.122	0.002R	-9667.2	8	19.34	3.782
Approach	33714	RUNWAY_LIGHT	939241.7	634562.3	19.612	27.889L	-9497.04	8	15.56	4.052
Approach	33722	RUNWAY_LIGHT	939241.7	634534.6	19.579	0.189L	-9497.04	8	15.53	4.049
Approach	33730	RUNWAY_LIGHT	939241.9	634506.3	19.309	28.109R	-9497.25	8	15.56	3.749
Approach	34776	FENCE	939209.4	635069.4	18.285	534.952L	-9464.79	8	8.91	9.375
Approach	36144	TREE	927430.9	634033.8	55.522	498.844R	2313.915	8		
Approach	36648	TREE	927597.5	634066.9	52.08	465.737R	2147.285	8		
Approach	37040	TREE	928469.8	634122.9	35.441	409.849R	1274.979	8		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	37536	RAILROAD	928687.7	634973.7	30.901	440.868L	1056.885	8	23	7.901
Approach	37544	RAILROAD	928665.3	635072.4	30.732	539.564L	1079.318	8	23	7.732
Approach	37688	STREET_SIGN	929194.3	634934.2	20.254	401.313L	550.352	8	13.23	7.024
Approach	37696	STREET_SIGN	929204.3	634934.6	20.085	401.675L	540.311	8	12.69	7.395
Approach	38064	BUILDING	929489.4	634275.3	14.752	257.656R	255.362	8	9.585	5.167
Approach	38120	FENCE	929484.2	634143.7	14.415	389.270R	260.531	8	7.695	6.72
Primary	9911	WINDSOCK	930723.1	634260.5	13.85	272.657R	-978.386	8	12.623	1.227
Primary	10231	WINDSOCK	937529.1	634282.2	13.054	251.965R	-7784.35	8	11.421	1.633
Primary	34336	BUILDING	931322.3	634804.1	13.74	270.921L	-1577.63	8	10.766	2.974
Transitional	35296	TREE	928159	633694	60.146	838.769R	1585.84	8		
Approach	13523	TREE	940971.9	634336.5	52.606	198.146R	-11227.2	7		
Approach	16160	FENCE	929382.4	634405.5	16.055	127.469R	362.311	7	10.143	5.912
Approach	16168	FENCE	929368.1	634484.5	16.559	48.395R	376.583	7	10.773	5.786
Approach	16624	TREE	926863.6	634714.7	65.96	182.156L	2881.039	7		
Approach	16720	POWER_TRANSMISSION_PYLON	926194.2	634555.7	79.276	23.263L	3550.507	7	73.395	5.881
Approach	20378	TREE	941921.5	635041.3	71.893	506.449L	-12176.9	7		
Approach	20818	POLE	941131.5	634040.4	56.503	494.349R	-11386.7	7	50.963	5.54
Approach	21050	POLE	940596.5	634067.3	45.332	467.339R	-10851.7	7	39.15	6.182
Approach	21970	TREE	940674.5	635137.7	46.479	603.097L	-10929.9	7		
Approach	22002	TREE	940653.6	635121.3	46.682	586.664L	-10909	7		
Approach	22746	PRIMARY_ROAD	939373.3	634908.4	20.782	373.978L	-9628.62	7	15	5.782



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	22834	RAILROAD	939799	634265	29.828	269.479R	-10054.3	7	23	6.828
Approach	22842	RAILROAD	939830.2	634176.9	29.862	357.555R	-10085.4	7	23	6.862
Approach	33690	RUNWAY_LIGHT	940169.3	634534.6	36.69	0.069L	-10424.6	7	32	4.69
Approach	36176	TREE	927508.3	634032.2	53.092	500.413R	2236.437	7		
Approach	36488	TREE	927988.6	634112.7	43.777	420.016R	1756.119	7		
Approach	36616	TREE	927578.6	633779.8	52.147	752.885R	2166.187	7		
Approach	36832	RUNWAY_LIGHT	928481	634533	33.619	0.228L	1263.656	7	29.127	4.492
Approach	37464	TREE	928266.4	634070.9	37.804	461.819R	1478.326	7		
Approach	37528	RAILROAD	928644.9	635161	30.53	628.140L	1099.738	7	23	7.53
Approach	37672	STREET_SIGN	929302.9	634137.1	17.149	395.862R	441.835	7	9.72	7.429
Approach	38072	POLE	929484.1	634280	13.909	252.905R	260.579	7	8.842	5.067
Approach	38128	FENCE	929440	634234.1	14.651	298.861R	304.695	7	8.37	6.281
Transitional	31600	POLE	940762.7	633327.9	110.303	1206.784R	-11017.8	7	102.364	7.939
Transitional	34728	POLE	939878.8	633843	37.979	691.550R	-10134	7	31.016	6.963
Transitional	35072	POLE	929157.8	633718.9	57.402	813.982R	587.004	7	40.938	16.464
Transitional	35352	TREE	928175.3	633509.4	85.391	1023.344R	1569.549	7		
Transitional	38920	POLE	931154.9	635196.7	36.184	663.544L	-1410.33	7	32.366	3.818
Approach	13435	TREE	940678.3	634676.1	45.595	141.431L	-10933.7	6		
Approach	13667	POLE	941166.7	634883.2	55.999	348.463L	-11422	6	41.58	14.419
Approach	13771	POLE	941217	634332.7	56.337	201.999R	-11472.3	6	51.299	5.038
Approach	14035	TREE	942708.6	634595.3	86.932	60.392L	-12963.9	6		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	20370	TREE	941872.6	635032.3	69.463	497.502L	-12128	6		
Approach	20570	TREE	942018.8	633676.3	72.669	858.523R	-12274	6		
Approach	20762	TREE	941039.4	634106.2	53.369	428.475R	-11294.6	6		
Approach	20826	POLE	941092.5	633892.2	53.938	642.531R	-11347.7	6	48.904	5.034
Approach	20866	TREE	940965.6	633901.5	51.643	633.143R	-11220.8	6		
Approach	21298	TREE	940692.4	634514.8	46.682	19.813R	-10947.7	6		
Approach	21626	TREE	940756.6	633817.8	47.559	716.845R	-11011.8	6		
Approach	21978	TREE	940646	635151.1	45.602	616.433L	-10901.4	6		
Approach	22754	PRIMARY_ROAD	939425.5	634837.5	20.714	303.080L	-9680.86	6	15	5.714
Approach	22858	RAILROAD	939877.1	634020.7	29.592	513.771R	-10132.3	6	23	6.592
Approach	22866	RAILROAD	939853.7	634103.2	29.625	431.276R	-10109	6	23	6.625
Approach	24258	TREE	942660	635251.1	85.972	716.194L	-12915.5	6		
Approach	35848	TREE	926048.5	635421	81.307	888.602L	3696.09	6		
Approach	35864	TREE	926124.4	635406.2	80.362	873.767L	3620.2	6		
Approach	35872	TREE	926051.6	635396.8	81.847	864.415L	3692.97	6		
Approach	36208	TREE	927514.7	634064.8	52.552	467.842R	2230.083	6		
Approach	37680	STREET_SIGN	929372.8	634152	14.651	380.879R	371.982	6	9.484	5.167
Transitional	10566	TREE	938912	635421.1	66.271	886.763L	-9167.49	6		
Transitional	17003	TREE	928191.3	633443.2	93.734	1089.506R	1553.537	6		
Transitional	35560	TREE	927467.6	633658.2	61.699	874.419R	2277.183	6		
Approach	13291	PRIMARY_ROAD	939476.7	634775.2	20.603	240.700L	-9732.05	5	15	5.603



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	13483	TREE	940879.7	634804.1	48.565	269.429L	-11135.1	5		
Approach	13787	POLE	941170.7	634188.8	54.339	345.915R	-11426	5	49.895	4.444
Approach	16112	FENCE	929357	634758.2	14.111	225.267L	387.618	5	8.033	6.078
Approach	16120	FENCE	929359	634658.2	14.039	125.303L	385.679	5	7.844	6.195
Approach	16128	FENCE	929361.3	634559	14.255	26.040L	383.403	5	8.127	6.128
Approach	16448	TREE	928544.2	634330.4	30.829	202.446R	1200.506	5		
Approach	16600	TREE	927441.4	634303.5	52.622	229.136R	2303.361	5		
Approach	20274	POLE	944362.8	633394.5	118.358	1140.725R	-14617.9	5	103.376	14.982
Approach	20410	TREE	941960.5	635023.4	70.273	488.577L	-12215.9	5		
Approach	20514	TREE	941978.6	633885.7	70.847	649.126R	-12233.8	5		
Approach	20602	TREE	941924.3	633658.9	70.003	875.951R	-12179.4	5		
Approach	20882	TREE	940992.8	633858.8	50.901	675.836R	-11248.1	5		
Approach	21314	TREE	940707.8	634457.4	45.433	77.283R	-10963.1	5		
Approach	21586	TREE	940738.9	633989.1	46.344	545.583R	-10994.2	5		
Approach	21610	TREE	940778.9	633894.8	46.855	639.844R	-11034.1	5		
Approach	22610	FENCE	939293.4	634971.7	16.852	437.286L	-9548.77	5	7.998	8.854
Approach	22850	RAILROAD	939899.7	633930.1	29.625	604.372R	-10154.9	5	23	6.625
Approach	24266	TREE	942808.2	635267.3	87.727	732.330L	-13063.6	5		
Approach	35856	TREE	926105.2	635423.3	79.89	890.865L	3639.401	5		
Approach	36048	TREE	927503.5	635309.5	51.641	776.874L	2241.1	5		
Approach	36240	TREE	927459.7	633941.8	51.877	590.876R	2285.121	5		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	36288	POLE	927649.4	635306.1	48.57	773.415L	2095.139	5	43.706	4.864
Approach	36624	TREE	927618	633760.8	49.582	771.856R	2126.825	5		
Approach	38080	FENCE	929356	634832.9	14.651	299.955L	388.649	5	8.303	6.348
Approach	38088	FENCE	929363.7	634953	13.807	420.066L	380.935	5	8.539	5.268
Approach	39448	TREE	940317.4	635115.9	37.367	581.327L	-10572.7	5		
Transitional	35584	TREE	927614.7	633691.4	56.569	841.290R	2130.082	5		
Transitional	38312	INTERSTATE	929139.6	633890.7	30.639	642.158R	605.221	5	17	13.639
Transitional	38328	INTERSTATE	929008.7	633912.9	27.264	619.922R	736.09	5	17	10.264
Transitional	38352	RAILROAD	928940.8	633866.8	33.196	666.031R	804.011	5	23	10.196
Transitional	38624	PRIMARY_ROAD	929347.9	635102	20.269	569.115L	396.744	5	15	5.269
Transitional	38640	PRIMARY_ROAD	929671.1	635100.5	20.404	567.500L	73.498	5	15	5.404
Transitional	38648	PRIMARY_ROAD	929495.6	635100.6	20.404	567.645L	248.991	5	15	5.404
Transitional	38752	TREE	929377.1	635194.6	33.652	661.634L	367.493	5		
Transitional	38960	SIGN	933114.8	635166.1	29.4	632.578L	-3370.19	5	23.085	6.315
Transitional	39224	TREE	938469.1	635248.5	40.855	714.162L	-8724.5	5		
Transitional	39360	RAILROAD	939233	635176.8	30.532	642.415L	-9488.43	5	23	7.532
Approach	13315	PRIMARY_ROAD	939529.1	634692.6	20.581	158.180L	-9784.47	4	15	5.581
Approach	13443	TREE	940649.6	634776.4	43.854	241.744L	-10905	4		
Approach	13595	TREE	940725.2	634226	44.772	308.630R	-10980.4	4		
Approach	16472	TREE	928434.3	634383.3	31.369	149.456R	1310.37	4		
Approach	20282	POLE	944359.7	633905.1	117.784	630.137R	-14614.9	4	103.748	14.036



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	21498	TREE	940747	634092.4	45.197	442.278R	-11002.2	4		
Approach	21698	TREE	940903	634093.7	48.369	440.945R	-11158.2	4		
Approach	21714	TREE	940865.2	634090.5	47.964	444.153R	-11120.4	4		
Approach	21770	TREE	940916.9	634274.6	48.34	260.056R	-11172.2	4		
Approach	21778	TREE	940965.9	634357.3	49.652	177.388R	-11221.1	4		
Approach	21914	TREE	940597.9	635199.6	42.497	664.931L	-10853.3	4		
Approach	22618	FENCE	939348.8	634901.3	16.919	366.832L	-9604.17	4	8.843	8.076
Approach	24290	TREE	942758.6	635295.5	85.972	760.590L	-13014	4		
Approach	35736	TREE	925911.3	633927.6	81.847	604.829R	3833.503	4		
Approach	35760	TREE	925741.3	635483.9	85.492	951.551L	4003.287	4		
Approach	35784	TREE	925934.4	635514	81.982	981.629L	3810.166	4		
Approach	35808	TREE	925763.4	635379.9	85.155	847.528L	3981.137	4		
Approach	35976	TREE	926671.2	635319	67.571	786.482L	3073.368	4		
Approach	36136	TREE	927360.6	633911.8	53.565	620.800R	2384.216	4		
Approach	36304	POLE	927658.3	635032.2	47.051	499.540L	2086.359	4	41.985	5.066
Approach	36544	TREE	927980.3	633885.8	40.672	646.932R	1764.495	4		
Approach	36568	TREE	928074.3	633984.4	38.647	548.279R	1670.438	4		
Approach	36640	TREE	927652.9	634051.7	46.95	480.921R	2091.904	4		
Approach	36672	TREE	927632.9	633901.8	47.895	630.812R	2111.877	4		
Approach	37056	TREE	928426.1	635133.1	31.796	600.322L	1318.48	4		
Approach	37064	TREE	928435.3	635126.6	31.492	593.803L	1309.314	4		





SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	38136	STREET_SIGN	929357.6	634972.9	13.537	439.967L	387.048	4	8.303	5.234
Approach	38208	FENCE	929477.1	634034.1	10.905	498.851R	267.623	4	5.974	4.931
Transitional	10478	TREE	938444.6	635256.3	41.534	722.020L	-8699.99	4		
Transitional	18870	POLE	938233.6	633455.1	91.799	1079.129R	-8488.79	4	83.444	8.355
Transitional	34752	POLE	938880.5	633447.7	93.379	1086.638R	-9135.66	4	84.915	8.464
Transitional	34760	POLE	938935.9	633446.9	93.143	1087.437R	-9191.02	4	85.084	8.059
Transitional	35048	STREET_SIGN	929109.2	633901.8	28.107	631.074R	635.577	4	16.402	11.705
Transitional	35088	POLE	928515.1	633818	38.333	714.791R	1229.656	4	32.164	6.169
Transitional	35096	POLE	928603.9	633822	38.738	710.839R	1140.889	4	33.345	5.393
Transitional	35112	POLE	928408.9	633818.4	38.917	714.363R	1335.927	4	32.13	6.787
Transitional	38248	PRIMARY_ROAD	929533.9	633952.1	20.977	580.879R	210.916	4	15	5.977
Transitional	38264	INTERSTATE	929396.6	633928.6	24.327	604.295R	348.158	4	17	7.327
Transitional	38568	INTERSTATE	928878.8	635175.2	28.614	642.399L	865.821	4	17	11.614
Approach	13323	PRIMARY_ROAD	939578	634608.8	20.581	74.327L	-9833.36	3	15	5.581
Approach	13531	TREE	940886.3	634219.8	47.062	314.893R	-11141.6	3		
Approach	13747	POLE	941315.8	634626.9	55.927	92.170L	-11571.1	3	50.868	5.059
Approach	16512	CHIMNEY/SMOKESTACK	927824.1	634453.1	43.024	79.548R	1920.612	3	37.359	5.665
Approach	16664	POWER_TRANSMISSION_PYLON	927030.2	634573.1	59.062	40.566L	2714.44	3	53.109	5.953
Approach	20594	TREE	941949.9	633779.6	68.383	755.212R	-12205.1	3		
Approach	20986	POLE	940782.6	634983.1	45.467	448.418L	-11038	3	40.635	4.832
Approach	21306	TREE	940726.5	634472.1	43.543	62.588R	-10981.8	3		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	21442	TREE	940660	634799.2	42.801	264.542L	-10915.4	3		
Approach	21634	TREE	940746	633794.3	44.155	740.323R	-11001.2	3		
Approach	21762	TREE	940882	634175.9	47.463	358.763R	-11137.3	3		
Approach	21858	TREE	940580.1	635274.4	40.742	739.817L	-10835.5	3		
Approach	22626	FENCE	939396	634837	17.054	302.596L	-9651.33	3	9.045	8.009
Approach	33698	RUNWAY_LIGHT	940349.6	634534.2	36.184	0.400R	-10605	3	29.97	6.214
Approach	35720	TREE	925466.4	635491.9	90.42	959.612L	4278.145	3		
Approach	36224	TREE	927359.4	633938.7	52.012	593.876R	2385.419	3		
Approach	36312	POLE	927662.2	634894.5	46.342	361.876L	2082.389	3	41.31	5.032
Approach	36320	POLE	927664.9	634789.7	46.376	257.041L	2079.733	3	41.04	5.336
Approach	36528	TREE	927989.3	633964.5	39.525	568.187R	1755.522	3		
Approach	36600	TREE	927596.2	633939.7	48.03	592.995R	2148.58	3		
Approach	36608	TREE	927578.1	633999.4	47.76	533.267R	2166.708	3		
Approach	36632	TREE	927647.6	633791.8	46.815	740.820R	2097.178	3		
Approach	36656	TREE	927640.7	634103.3	46.41	429.402R	2104.017	3		
Approach	36688	TREE	927639.4	634004.1	46.747	528.546R	2105.397	3		
Approach	37432	TREE	928237.5	633931.5	35.104	601.244R	1507.306	3		
Approach	37456	TREE	928273	634040.9	33.619	491.849R	1471.789	3		
Approach	38200	FENCE	929431.5	634155.9	10.432	376.986R	313.212	3	5.637	4.795
Primary	9502	POST	929555.7	634129.5	8.765	403.452R	189.022	3	4.406	4.359
Primary	10031	SIGN	934365.8	634656.4	8.441	122.704L	-4621.13	3	3.614	4.827



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Primary	10039	SIGN	933401.4	634659.1	8.459	125.540L	-3656.73	3	3.366	5.093
Primary	10047	SIGN	932927.6	634409.1	8.779	124.314R	-3182.84	3	3.168	5.611
Primary	10071	SIGN	933745.5	634408.3	8.095	125.236R	-4000.75	3	3.366	4.729
Primary	10087	SIGN	934041.7	634176.1	8.369	357.562R	-4297	3	3.465	4.904
Primary	34416	SIGN	930787.8	634385.2	8.171	147.985R	-1043.09	3	4.658	3.513
Primary	34520	SIGN	934640.2	634254	8.171	279.686R	-4895.49	3	3.308	4.863
Primary	34528	SIGN	934419	634409	8.205	124.704R	-4674.32	3	3.274	4.931
Transitional	18878	POLE	939024.9	633446.5	92.483	1087.876R	-9280	3	84.2	8.283
Transitional	23314	TREE	940584.3	635305	44.729	770.346L	-10839.8	3		
Transitional	23762	POLE	941034.2	633694.9	53.909	839.761R	-11289.4	3	47.52	6.389
Transitional	34800	POLE	938161.7	633453.3	91.692	1080.915R	-8416.83	3	83.126	8.566
Transitional	34808	POLE	938339.7	633452.5	91.692	1081.772R	-8594.83	3	83.193	8.499
Transitional	35208	TREE	928664.5	633830.5	36.69	702.341R	1080.282	3		
Transitional	35384	TREE	928000.1	633651.2	61.091	881.541R	1744.742	3		
Transitional	35392	TREE	927992.2	633679.5	56.636	853.183R	1752.638	3		
Transitional	35408	TREE	927988.9	633789.1	41.044	743.611R	1755.943	3		
Transitional	35592	TREE	927647.9	633719.4	50.764	813.266R	2096.958	3		
Transitional	38096	FENCE	929362.5	635072.2	13.74	539.229L	382.139	3	8.64	5.1
Transitional	38280	INTERSTATE	929317.6	633914.8	24.969	618.164R	427.154	3	17	7.969
Transitional	38296	INTERSTATE	929234.5	633900.5	27.027	632.398R	510.308	3	17	10.027
Transitional	38744	TREE	929375.7	635184.1	29.535	651.216L	368.912	3		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	13331	PRIMARY_ROAD	939620.4	634530.1	20.581	4.411R	-9875.73	2	15	5.581
Approach	13459	TREE	940658.2	634860.7	41.527	326.068L	-10913.5	2		
Approach	13467	TREE	940770.5	634802	43.431	267.395L	-11025.9	2		
Approach	13539	TREE	940827.9	634447.7	44.812	86.956R	-11083.2	2		
Approach	13579	TREE	940719.4	634281.4	42.315	253.251R	-10974.7	2		
Approach	13699	TREE	941100.1	634188.7	49.994	345.985R	-11355.3	2		
Approach	13755	POLE	941265	634492.8	54.172	41.892R	-11520.3	2	49.464	4.708
Approach	13859	TREE	941901.2	634537.7	66.722	2.835L	-12156.5	2		
Approach	14195	POLE	944335.3	634453.7	114.891	81.501R	-14590.6	2	103.14	11.751
Approach	20346	POLE	942609.4	635375.3	80.567	840.407L	-12864.9	2	75.937	4.63
Approach	21322	TREE	940704.7	634473.8	42.396	60.837R	-10960	2		
Approach	21490	TREE	940744.7	634176.1	43.037	358.512R	-11000	2		
Approach	21578	TREE	940743.6	634012.4	42.834	522.238R	-10998.8	2		
Approach	21642	TREE	940757.4	633779.1	43.413	755.501R	-11012.6	2		
Approach	21754	TREE	940858.5	634121.7	45.197	412.938R	-11113.8	2		
Approach	24306	TREE	942711.2	634655.7	82.867	120.716L	-12966.6	2		
Approach	35728	TREE	925057.6	635242.7	97.811	710.385L	4686.976	2		
Approach	35880	TREE	926062	635441.8	77.19	909.380L	3682.504	2		
Approach	36096	TREE	927180.7	633993.5	55.32	539.064R	2564.037	2		
Approach	36248	TREE	927508	633863.3	48.502	669.362R	2236.769	2		
Approach	36520	TREE	927985.4	633996.9	38.985	535.814R	1759.356	2		



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	36536	TREE	927981	633909.1	38.782	623.607R	1763.799	2		
Approach	36824	RUNWAY_LIGHT	928262.4	634533.1	32.91	0.383L	1482.265	2	27.203	5.707
Approach	37608	ROAD_SIGN	928897.7	634346.1	20.355	186.711R	847.047	2	13.264	7.091
Approach	38192	FENCE	929382.4	634265.2	10.534	267.775R	362.286	2	5.805	4.729
Approach	39456	TREE	940323.5	635081.9	35.342	547.361L	-10578.9	2		
Approach	39576	TREE	940974.3	634556.7	48.066	22.063L	-11229.6	2		
Primary	9470	SIGN	929714.7	634909.3	7.636	376.352L	29.947	2	3.415	4.221
Primary	9478	SIGN	929693	634212.3	7.177	320.721R	51.71	2	3.316	3.861
Primary	9903	SIGN	932364.2	634407.1	7.694	126.229R	-2619.5	2	3.119	4.575
Primary	10015	SIGN	935321.2	634889.8	6.943	355.990L	-5576.6	2	3.712	3.231
Primary	10023	SIGN	935215.6	634664.5	7.384	130.705L	-5470.96	2	3.465	3.919
Primary	10079	GROUND	933809.5	634083.7	6.983	449.873R	-4064.72	2		
Primary	10223	SIGN	936633.5	634410.4	7.172	123.653R	-6888.81	2	3.645	3.527
Primary	12161	SIGN	938846.1	634083.4	6.83	451.003R	-9101.39	2	3.159	3.671
Primary	34176	SIGN	934873.5	634812.9	7.192	279.122L	-5128.83	2	3.105	4.087
Primary	34184	SIGN	934643.4	634811.5	7.294	277.828L	-4898.7	2	3.172	4.122
Primary	34192	SIGN	932965.2	634861	7.159	327.520L	-3220.6	2	3.206	3.953
Primary	34208	SIGN	932654.2	634783.4	7.834	249.960L	-2909.55	2	3.442	4.392
Primary	34224	SIGN	932012.2	634645.3	7.361	111.929L	-2267.49	2	3.274	4.087
Primary	34352	SIGN	930709.5	634652.6	7.665	119.466L	-964.851	2	3.341	4.324
Primary	34360	SIGN	930037.7	634659.9	7.327	126.901L	-293.018	2	3.375	3.952



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Primary	34392	SIGN	930238.7	634407.7	7.429	125.334R	-493.993	2	3.206	4.223
Primary	34408	SIGN	930674.9	634414.1	7.395	118.993R	-930.161	2	3.274	4.121
Primary	34488	SIGN	933276.9	634196	7.935	337.512R	-3532.12	2	3.172	4.763
Primary	34496	SIGN	933248.4	634166	7.699	367.537R	-3503.63	2	3.442	4.257
Primary	34504	SIGN	933448.7	634288.2	7.125	245.303R	-3703.94	2	3.442	3.683
Primary	34536	SIGN	934879	634253.7	7.395	280.088R	-5134.29	2	3.274	4.121
Primary	34544	SIGN	934940.5	634408.8	7.699	124.941R	-5195.83	2	3.206	4.493
Primary	34552	SIGN	935264.1	634249.8	7.429	284.034R	-5519.41	2	3.307	4.122
Primary	34560	SIGN	935561.7	634362.9	7.327	170.933R	-5816.95	2	3.105	4.222
Primary	34664	SIGN	937564	634380.2	7.462	153.935R	-7819.28	2	4.59	2.872
Transitional	23922	TREE	941761.3	633529	75.408	1005.846R	-12016.4	2		
Transitional	35024	ROAD_SIGN	929374.5	633771.5	44.239	761.455R	370.352	2	36.011	8.228
Transitional	35080	POLE	928532.5	633806.5	38.94	726.330R	1212.305	2	32.873	6.067
Transitional	38520	STREET_SIGN	928847.4	635147.5	22.92	614.626L	897.177	2	12.825	10.095
Transitional	38584	INTERSTATE	929074.9	635176.2	27.264	643.284L	669.698	2	17	10.264
Transitional	38600	INTERSTATE	929158.4	635186.2	29.356	653.286L	586.159	2	17	12.356
Transitional	38616	INTERSTATE	929251.1	635147.1	23.99	614.180L	493.544	2	17	6.99
Transitional	38728	POLE	929759.4	635182.8	28.59	649.828L	-14.817	2	22.477	6.113
Transitional	38760	TREE	929378.8	635202.7	31.762	669.784L	365.796	2		
Transitional	38864	POLE	930053.4	635184.6	29.164	651.554L	-308.828	2	23.456	5.708
Approach	13339	PRIMARY_ROAD	939664.4	634440.2	20.959	94.243R	-9919.74	1	15	5.959



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	13347	PRIMARY_ROAD	939702.8	634354.5	21.337	179.975R	-9958.07	1	15	6.337
Approach	13475	TREE	940810.6	634857.4	44.065	322.709L	-11065.9	1		
Approach	13811	TREE	941720.3	634721.3	61.421	186.524L	-11975.7	1		
Approach	14075	TREE	942687.6	634436.1	81.652	98.838R	-12942.9	1		
Approach	14187	POLE	944620.3	634183.1	119.886	352.092R	-14875.5	1	106.38	13.506
Approach	16568	POLE	927672.6	634594	43.987	61.378L	2072.037	1	38.745	5.242
Approach	16592	TREE	927605.2	634738.2	45.764	205.583L	2139.488	1		
Approach	16632	TREE	926920.7	634751.4	58.67	218.860L	2823.985	1		
Approach	16680	TREE	927166.7	634159.2	54.629	373.389R	2578.095	1		
Approach	20874	TREE	941025.9	633920.9	47.902	613.816R	-11281.1	1		
Approach	20954	POLE	940949.1	633921.7	46.243	613.018R	-11204.4	1	41.445	4.798
Approach	21242	TREE	940654.8	634587.3	40.404	52.690L	-10910.1	1		
Approach	21506	TREE	940747.7	634074.7	42.092	459.983R	-11002.9	1		
Approach	21570	TREE	940752.3	634031.6	42.497	503.057R	-11007.5	1		
Approach	21602	TREE	940740.1	633950	42.227	584.680R	-10995.3	1		
Approach	21650	TREE	940786.9	633798.4	43.172	736.250R	-11042.1	1		
Approach	22634	FENCE	939446.9	634763	16.818	228.578L	-9702.22	1	9.011	7.807
Approach	24042	TREE	941942.5	633848.3	66.16	686.566R	-12197.7	1		
Approach	24282	TREE	942737.4	635249	81.787	714.020L	-12992.8	1		
Approach	34768	SIGN	938967.6	634068	7.013	466.391R	-9222.88	1	3.037	3.976
Approach	36296	POLE	927655.5	635114.4	44.689	581.746L	2089.068	1	39.217	5.472



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Approach	36552	TREE	927984.3	633936.6	37.567	596.081R	1760.448	1		
Approach	37104	TREE	928444	635056.1	28.252	523.312L	1300.628	1		
Approach	37448	TREE	928250.6	634003.6	32.066	529.114R	1494.212	1		
Approach	38152	FENCE	929307	634699.8	11.107	166.853L	437.678	1	5.13	5.977
Approach	38160	FENCE	929284.2	634826.5	11.479	293.577L	460.448	1	5.838	5.641
Approach	38176	FENCE	929282.2	635060.1	11.917	527.237L	462.458	1	5.94	5.977
Primary	9887	GROUND	932404.1	634615.5	6.313	82.113L	-2659.45	1		
Primary	9895	GROUND	932578.9	634438.3	6.929	95.132R	-2834.21	1		
Primary	10007	GROUND	932966.8	634615.8	6.245	82.359L	-3222.13	1		
Primary	10055	GROUND	933130.2	634453.3	6.304	80.178R	-3385.49	1		
Primary	10063	GROUND	932755.7	634260.8	6.506	272.627R	-3010.97	1		
Primary	10215	SIGN	935769.5	634223.5	6.304	310.427R	-6024.75	1	3.402	2.902
Primary	12145	SIGN	938800.1	634857.6	6.578	323.276L	-9055.48	1	3.677	2.901
Primary	12153	SIGN	938799.6	634211.9	6.493	322.416R	-9054.82	1	3.276	3.217
Primary	34104	SIGN	938242.2	634665.1	6.416	130.815L	-8497.55	1	3.173	3.243
Primary	34120	SIGN	937940.3	634664.3	6.382	130.091L	-8195.64	1	3.207	3.175
Primary	34136	SIGN	937814.7	634816.2	6.112	281.991L	-8070	1	3.375	2.737
Primary	34144	SIGN	937576.4	634813.7	5.977	279.516L	-7831.79	1	3.342	2.635
Primary	34152	SIGN	937389.7	634658.3	6.821	124.209L	-7645.02	1	3.308	3.513
Primary	34160	SIGN	936715.6	634709.3	6.551	175.260L	-6970.95	1	3.443	3.108
Primary	34168	SIGN	936351.5	634816.2	6.45	282.247L	-6606.81	1	3.442	3.008





SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Primary	34200	SIGN	932925.1	634825.4	6.416	291.983L	-3180.46	1	3.24	3.176
Primary	34216	SIGN	932387	634886.2	6.922	352.782L	-2642.41	1	3.173	3.749
Primary	34232	SIGN	931802.7	634860.5	6.484	327.165L	-2058.03	1	3.375	3.109
Primary	34240	SIGN	931784.9	634836.7	6.517	303.392L	-2040.23	1	3.342	3.175
Primary	34256	PAPI	931607.9	634657.1	6.855	123.846L	-1863.19	1	3.712	3.143
Primary	34264	PAPI	931607.7	634677	6.72	143.714L	-1863.07	1	3.645	3.075
Primary	34272	PAPI	931607.7	634697.3	6.686	164.041L	-1863.05	1	3.746	2.94
Primary	34280	PAPI	931607.9	634717	6.585	183.688L	-1863.22	1	3.814	2.771
Primary	34288	SIGN	931552.9	634747.7	6.281	214.464L	-1808.29	1	3.544	2.737
Primary	34296	SIGN	931218.6	634648	6.247	114.756L	-1473.92	1	3.443	2.804
Primary	34304	SIGN	930999.1	634813.2	6.315	280.048L	-1254.47	1	3.24	3.075
Primary	34320	SIGN	931364.1	634864	6.349	330.823L	-1619.51	1	3.206	3.143
Primary	34344	SIGN	930756.8	634812.1	6.214	278.990L	-1012.16	1	3.206	3.008
Primary	34368	SIGN	929934	634789.4	7.024	256.385L	-189.317	1	3.341	3.683
Primary	34376	STREET_SIGN	929566.5	634074.9	7.091	458.097R	178.223	1	2.734	4.357
Primary	34384	SIGN	930204.6	634210.8	6.551	322.295R	-459.88	1	3.308	3.243
Primary	34400	SIGN	930579	634197.6	6.551	335.542R	-834.275	1	3.139	3.412
Primary	34424	SIGN	930773.7	634253.5	6.079	279.681R	-1028.97	1	3.442	2.637
Primary	34432	SIGN	931035.9	634333.8	6.652	199.342R	-1291.21	1	3.342	3.31
Primary	34440	SIGN	931157.8	634399.9	6.652	133.270R	-1413.11	1	2.97	3.682
Primary	34464	SIGN	931915.8	634212.8	6.382	320.462R	-2171.05	1	3.207	3.175



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Primary	34472	SIGN	931969.9	634241.4	6.079	291.942R	-2225.15	1	3.375	2.704
Primary	34480	SIGN	932310.5	634240.9	6.619	292.466R	-2565.77	1	3.442	3.177
Primary	34512	SIGN	934498.2	634191.3	6.855	342.411R	-4753.5	1	3.442	3.413
Primary	34568	SIGN	936288.4	634202.1	6.551	331.892R	-6543.64	1	3.51	3.041
Primary	34584	SIGN	936722.6	634370.8	6.112	163.263R	-6977.85	1	3.139	2.973
Primary	34592	SIGN	936742.8	634379.6	6.585	154.408R	-6998.05	1	4.016	2.569
Primary	34616	NAVAID	936788.3	634324.5	5.977	209.503R	-7043.61	1	3.173	2.804
Primary	34624	NAVAID	936788.4	634344.5	6.045	189.497R	-7043.72	1	3.341	2.704
Primary	34632	NAVAID	936788.4	634364.6	6.079	169.420R	-7043.66	1	3.408	2.671
Primary	34640	NAVAID	936788.6	634384.6	6.214	149.414R	-7043.84	1	3.408	2.806
Primary	34648	SIGN	937326.1	634339.9	5.876	194.233R	-7581.36	1	3.173	2.703
Primary	34656	SIGN	937439.5	634409.8	6.416	124.382R	-7694.78	1	3.375	3.041
Primary	34688	SIGN	937817	634254.6	6.011	279.649R	-8072.25	1	3.173	2.838
Primary	34696	SIGN	937896.1	634405.7	6.281	128.495R	-8151.38	1	3.274	3.007
Primary	34704	SIGN	938242.1	634404.4	6.754	129.861R	-8497.35	1	3.307	3.447
Primary	34712	SIGN	938143.7	634196.2	6.18	338.093R	-8399	1	3.206	2.974
Primary	34720	SIGN	938319.3	634220.7	6.484	313.606R	-8574.59	1	3.105	3.379
Transitional	10542	POLE	938610.3	635202.6	29.866	668.270L	-8865.69	1	22.837	7.029
Transitional	23290	TREE	940506.7	633786.5	39.599	748.081R	-10761.9	1		
Transitional	35128	TREE	928427.6	633805.4	37.905	727.430R	1317.191	1		
Transitional	38104	FENCE	929431.1	635093.1	15.157	560.214L	313.461	1	9.518	5.639



SURFACE PENETRATED	POINT ID	FEATURE	COORDINATES		ELEVATION (FEET MSL)	FROM RUNWAY CENTERLINE	FROM RUNWAY END	PENETRATION VALUE (FEET)	ABOVE GROUND ELEVATION (FEET)	GROUND ELEVATION (FEET MSL)
			EASTING	NORTHING						
Transitional	38480	TREE	928423.5	635262.1	37.804	729.366L	1321.112	1		
Transitional	38560	INTERSTATE	928980.9	635183.3	27.77	650.439L	763.722	1	17	10.77
Transitional	38720	POLE	929906.4	635183	27.746	649.981L	-161.831	1	22.478	5.268
Transitional	39344	PRIMARY_ROAD	939175	635145.1	21.925	610.710L	-9430.43	1	15	6.925
Transitional	39496	TREE	940247.2	635299.8	42.497	765.197L	-10502.6	1		

SOURCE: Quantum Spatial, Inc., *Fort Lauderdale/Hollywood International Airport Geographic Information System Update*, December 2015.

PREPARED BY: Ricondo & Associates, Inc., January 2017.



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