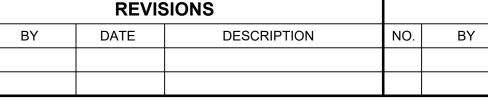


Object ID	Description	Object Elevation (MSL)	Part 77 A Surface Elevation (MSL)	Approach Penetration/ Clearance (ft)	Departur Surface Elevation (MSL)			Penetration/ Clearance (ft)		Penetration/ Clearance (ft)	Surface Elevation (MSL)	Penetration/ Clearance (ft)	TERPS Visual Surface Surface Penetral Elevation Clearal (MSL) (ft)	tion/ Disposition
1449 1450 1451 1452	Tree Tree Tree Tree	649.9 651.1 631.5 620.3	627.6 627.6 627.6 627.6	22.2 23.5 3.9 -7.3	657.7 657.7 657.7 657.6	-7.8 -6.6 -26.2 -37.3	674.7 674.6 674.6 674.6	-24.8 -23.5 -43.1 -54.3	700.9 700.9 700.9 700.8	-51.0 -49.8 -69.4 -80.5	729.6 729.6 729.5 729.5	-79.7 -78.4 -98.1 -109.2	674.7 -24.8 674.6 -23.8 674.6 -43.6 674.6 -54.6	8 Airspace Study/Removal 5 Airspace Study/Removal 1 Airspace Study/Removal
1453 1454	Tree Tree	620.3 637.9 628.3 658.1	627.5 627.5 627.5	10.3 0.8 30.6	657.6 657.6 657.6 657.6	-19.7 -29.3	674.5 674.5	-36.7 -46.2	700.8 700.8 700.8 700.7	-80.5 -62.9 -72.5 -42.6	729.5 729.5 729.4 729.4	-109.2 -91.6 -101.1 -71.3	674.5 -36. 674.5 -46.	7 Airspace Study/Removal 2 Airspace Study/Removal
1455 1456 1457	Tree Tree Tree	654.9 621.4	627.5 627.3	27.5 -5.9	657.5 657.3	-2.6 -35.9	674.5 674.4 674.2	-16.4 -19.5 -52.8	700.6 700.4	-45.7 -79.0	729.3 729.1	-74.4 -107.7	674.4 -19.1 674.2 -52.1	5 Airspace Study/Removal 8 No Action
1458 1459 1460	Tree Utility Pole Tree	624.0 630.4 634.1	627.3 627.3 627.2	-3.3 3.1 6.9	657.3 657.3 657.1	-33.2 -26.8 -23.0	674.2 674.1 674.0	-50.1 -43.7 -39.9	700.3 700.3 700.2	-76.3 -69.9 -66.1	729.0 729.0 728.9	-105.0 -98.6 -94.8	674.2 -50 674.1 -43 674.0 -39	7 Airspace Study/Removal 9 Airspace Study/Removal
1461 1462 1463	Tree Tree Tree	651.7 620.3 649.7	627.2 627.1 627.1	24.6 -6.8 22.5	657.1 657.1 657.1	-5.4 -36.8 -7.4	674.0 673.9 673.9	-22.3 -53.6 -24.3	700.2 700.1 700.1	-48.4 -79.8 -50.4	728.9 728.8 728.8	-77.1 -108.5 -79.1	674.0 -22.3 673.9 -53.4 673.9 -24.3	6 No Action
1464 1465 1466	Tree Tree Tree	622.5 644.0 643.9	627.1 627.0 627.0	-4.6 16.9 16.9	657.0 657.0 656.9	-34.5 -13.0 -13.1	673.9 673.8 673.7	-51.3 -29.8 -29.9	700.0 699.9 699.9	-77.5 -55.9 -56.0	728.7 728.6 728.6	-106.2 -84.6 -84.7	673.9 -51.3 673.8 -29.3 673.7 -29.3	8 Airspace Study/Removal
1467 1468 1469	Tree Tree Tree	630.9 620.4 648.9	627.0 626.9 626.9	3.9 -6.5 22.0	656.9 656.8 656.8	-26.0 -36.4 -7.8	673.7 673.6 673.6	-42.8 -53.2 -24.6	699.8 699.8 699.7	-68.9 -79.4 -50.8	728.5 728.5 728.4	-97.6 -108.1 -79.5	673.7 -42.3 673.6 -53.3 673.6 -24.4	8 Airspace Study/Removal 2 No Action
1470 1471	Tree Tree	631.5 649.4	626.9 626.8	4.6 22.5	656.8 656.7	-25.3 -7.4	673.6 673.5	-42.1 -24.1	699.7 699.6	-68.2 -50.2	728.4 728.3	-96.9 -79.0	673.5 -42.: 673.5 -24.:	1 Airspace Study/Removal 1 Airspace Study/Removal
1472 1473 1474	Tree Tree Tree	628.7 618.5 655.8	626.8 626.7 626.6	1.9 -8.1 29.1	656.7 656.5 656.5	-28.0 -38.0 -0.7	673.5 673.3 673.2	-44.8 -54.7 -17.4	699.6 699.3 699.3	-70.9 -80.8 -43.5	728.3 728.1 728.0	-99.6 -109.5 -72.2	673.5 -44.3 673.3 -54.3 673.2 -17.4	No Action Airspace Study/Removal
1475 1476 1477	Tree Tree Tree	645.4 639.9 630.0	626.6 626.5 626.5	18.8 13.4 3.5	656.5 656.3 656.2	-11.0 -16.4 -26.3	673.2 673.0 672.9	-27.8 -33.1 -43.0	699.3 699.1 699.0	-53.9 -59.2 -69.0	728.0 727.8 727.7	-82.6 -87.9 -97.7	673.2 -27.3 673.0 -33.3 672.9 -43.0	Airspace Study/Removal Airspace Study/Removal
1479 1480 1482	Tree Tree Tree	638.0 632.4 620.4	626.4 626.4 626.3	11.6 6.0 -5.9	656.1 656.1 656.0	-18.1 -23.7 -35.6	672.8 672.8 672.7	-34.8 -40.4 -52.3	698.8 698.8 698.7	-60.8 -66.4 -78.3	727.6 727.6 727.5	-89.6 -95.2 -107.0	672.8 -34.8 672.8 -40.4 672.7 -52.3	4 Airspace Study/Removal
1484 1485 1486	Tree Tree Tree	639.0 652.2 624.8	626.2 626.2 626.2	12.8 26.0 -1.4	655.9 655.9 655.9	-16.9 -3.7 -31.1	672.6 672.6 672.5	-33.6 -20.4 -47.8	698.6 698.6 698.5	-59.5 -46.3 -73.7	727.3 727.3 727.3	-88.3 -75.1 -102.5	672.6 -33.0 672.6 -20.4 672.5 -47.3	4 Airspace Study/Removal
1487 1491 1494	Tree Tree Tree	629.2 619.8 628.9	626.1 626.0 625.9	3.1 -6.2 3.0	655.8 655.7 655.5	-26.6 -35.9 -26.7	672.5 672.3 672.1	-43.2 -52.5 -43.2	698.4 698.2 698.1	-69.2 -78.4 -69.2	727.2 727.0 726.8	-98.0 -107.2 -97.9	672.5 -43.2 672.3 -52.1 672.1 -43.2	5 No Action
1495 1496	Tree Tree	648.9 625.3	625.9 625.8	23.0 -0.5	655.5 655.5	-6.7 -30.2	672.1 672.0	-23.3 -46.7	698.0 697.9	-49.2 -72.6	726.8 726.7	-78.0 -101.4	672.1 -23.1 672.0 -46.1	3 Airspace Study/Removal 7 No Action
1497 1499 1500	Tree Tree Tree	636.7 646.7 645.2	625.8 625.7 625.7	10.9 21.0 19.4	655.4 655.3 655.3	-18.7 -8.6 -10.1	671.9 671.9 671.9	-35.3 -25.2 -26.7	697.8 697.8 697.7	-61.2 -51.0 -52.6	726.6 726.6 726.5	-90.0 -79.8 -81.4	671.9 -35.3 671.9 -25.3 671.9 -26.3	2 Airspace Study/Removal 7 Airspace Study/Removal
1502 1506 1507	Tree Tree Tree	622.0 646.0 632.5	625.6 625.5 625.4	-3.6 20.5 7.0	655.2 655.0 655.0	-33.2 -9.0 -22.5	671.7 671.5 671.4	-49.7 -25.5 -39.0	697.6 697.3 697.3	-75.5 -51.3 -64.8	726.4 726.1 726.1	-104.3 -80.1 -93.6	671.7 -49. 671.5 -25. 671.4 -39.	5 Airspace Study/Removal
1508 1509 1511	Tree Tree Tree	639.7 653.7 624.7	625.4 625.3 625.3	14.3 28.4 -0.6	654.9 654.8 654.7	-15.2 -1.1 -30.1	671.4 671.2 671.2	-31.7 -17.6 -46.5	697.2 697.0 697.0	-57.5 -43.4 -72.3	726.0 725.9 725.8	-86.4 -72.2 -101.1	671.4 -31. 671.2 -17. 671.2 -46.	6 Airspace Study/Removal 5 No Action
1513 1518 1519	Tree Tree Tree	629.0 621.7 651.3	625.2 625.0 625.0	3.8 -3.3 26.3	654.7 654.4 654.4	-25.7 -32.7 -3.1	671.1 670.8 670.8	-42.1 -49.1 -19.5	696.9 696.5 696.5	-67.9 -74.9 -45.3	725.8 725.4 725.4	-96.7 -103.7 -74.1	671.1 -42.: 670.8 -49.: 670.8 -19.:	1 No Action
1519 1521 1523 1526	Tree Tree Tree	651.0 655.3 647.9	625.0 625.0 624.9 624.7	26.3 26.1 0.4 23.2	654.4 654.3 654.0	-3.1 -3.4 -29.0 -6.1	670.8 670.7 670.4	-19.5 -19.7 -45.4 -22.4	696.5 696.4 696.0	-45.5 -45.5 -71.1 -48.1	725.4 725.3 724.9	-74.1 -74.3 -100.0 -77.0	670.8 -19.3 670.7 -45.4 670.4 -22.4	7 Airspace Study/Removal 4 Airspace Study/Removal
1527 1528	Tree Tree	646.0 629.6	624.7 624.7	21.4 4.9	654.0 654.0	-8.0 -24.4	670.3 670.3	-24.3 -40.7	696.0 696.0	-50.0 -66.4	724.9 724.8	-78.8 -95.2	670.3 -24.3 670.3 -40.3	Airspace Study/Removal Airspace Study/Removal
1529 1530 1531	Tree Utility Pole Tree	636.9 624.4 644.5	624.7 624.5 624.5	12.3 -0.2 20.0	654.0 653.8 653.8	-17.1 -29.5 -9.2	670.3 670.1 670.1	-33.4 -45.8 -25.5	696.0 695.8 695.7	-59.0 -71.4 -51.2	724.8 724.6 724.6	-87.9 -100.3 -80.0	670.3 -33.4 670.1 -45.1 670.1 -25.1	No Action Airspace Study/Removal
1532 1534 1535	Tree Tree Tree	625.6 616.0 623.9	624.5 624.4 624.4	1.1 -8.3 -0.4	653.7 653.6 653.6	-28.1 -37.6 -29.7	670.0 669.9 669.8	-44.4 -53.8 -45.9	695.6 695.5 695.5	-70.0 -79.5 -71.6	724.5 724.4 724.4	-98.9 -108.4 -100.4	670.0 -44.4 669.9 -53.4 669.8 -45.9	8 No Action
1536 1538 1539	Tree Tree Tree	641.9 625.0 640.0	624.3 624.2 -	17.6 0.8	653.5 653.4 653.4	-11.6 -28.4 -13.4	669.8 669.6 -	-27.9 -44.6	695.4 695.2	-53.5 -70.2	724.3 724.1 -	-82.4 -99.1	669.8 -27.5 669.6 -44.6	9 Airspace Study/Removal
1542 1543 1545	Tree Tree Tree	651.0 656.5 632.8	623.9 - 623.9	27.1	653.1 653.1 653.0	-2.0 3.5 -20.2	669.2 - 669.2	-18.2 - -36.4	694.8 - 694.7	-43.7 - -61.9	723.7 - 723.6	-72.6 - -90.8	669.2 -18.3 	2 Airspace Study/Removal Airspace Study/Removal
1547 1551	Tree Tree	632.8 645.0 634.9 627.4	623.8 623.7 623.7	21.1 11.2 3.7	653.0 652.8 652.7	-8.0 -17.9	669.1 668.9	-24.1 -34.0	694.6 694.4	-61.9 -49.6 -59.5 -67.0	723.5 723.3 723.2	-90.8 -78.6 -88.4 -95.9	669.1 -24.: 668.9 -34.	Airspace Study/Removal Airspace Study/Removal
1552 1554 1556	Tree Tree Tree	630.9 646.4	623.5 623.4	7.4 23.0	652.5 652.5	-25.4 -21.6 -6.0	668.8 668.5 668.5	-41.5 -37.7 -22.1	694.3 694.0 693.9	-63.1 -47.5	722.9 722.9	-92.1 -76.5	668.5 -37. 668.5 -22.	7 Airspace Study/Removal 1 Airspace Study/Removal
1558 1560 1563	Tree Tree Tree	653.9 637.4 646.0	623.4 623.2 623.1	30.5 14.2 22.9	652.4 652.2 652.0	1.5 -14.8 -6.0	668.4 668.1 668.0	-14.5 -30.8 -22.0	693.8 693.5 693.3	-40.0 -56.2 -47.3	722.8 722.5 722.3	-68.9 -85.2 -76.3	668.4 -14.5 668.1 -30.6 668.0 -22.6	8 Airspace Study/Removal 0 Airspace Study/Removal
1564 1567 1568	Tree Tree Tree	641.5 627.4 647.4	623.0 622.9 622.8	18.5 4.5 24.6	652.0 651.8 651.7	-10.4 -24.4 -4.3	667.9 667.7 667.6	-26.4 -40.3 -20.2	693.3 693.0 692.9	-51.7 -65.6 -45.5	722.3 722.0 721.9	-80.7 -94.6 -74.5	667.9 -26.4 667.7 -40.3 667.6 -20.3	4 Airspace Study/Removal 3 Airspace Study/Removal
1571 1573 1576	Tree Tree Tree	640.2 638.4 631.1	622.8 622.7 622.5	17.4 15.6 8.6	651.6 651.6 651.3	-11.5 -13.2 -20.2	667.5 667.5 667.1	-27.4 -29.1 -36.0	692.8 692.8 692.4	-52.7 -54.4 -61.3	721.8 721.8 721.4	-81.7 -83.4 -90.3	667.5 -27. 667.5 -29. 667.1 -36.0	4 Airspace Study/Removal 1 Airspace Study/Removal
1577 1577 1578 1579	Tree Tree Tree	618.3 643.7 634.2	622.4 622.4 622.4	-4.2 21.2 11.8	651.2 651.2 651.2	-32.9 -7.5 -16.9	667.0 667.0 667.0	-48.7 -23.3 -32.8	692.3 692.3 692.2	-74.0 -48.6 -58.0	721.3 721.3 721.3 721.3	-103.0 -77.6 -87.0	667.0 -48. 667.0 -23. 667.0 -32.	No Action Airspace Study/Removal
1580 1581	Tree Tree	633.2 619.8	622.3 622.2	10.9 -2.5	651.0 650.9	-17.8 -31.2	666.8 666.7	-33.6 -47.0	692.0 691.9	-58.8 -72.2	721.0 721.0	-87.9 -101.2	666.8 -33.0 666.7 -47.0	6 Airspace Study/Removal 0 No Action
1582 1583 1587	Tree Tree Tree	645.2 648.6 628.5	622.2 622.2 621.9	22.9 26.4 6.6	650.9 650.9	-5.8 -2.3 -22.0	666.7 666.2	-21.6 -18.1 -37.7	691.9 691.4	-46.8 -43.3 -62.8	721.0 720.9 720.4	-75.8 -72.3 -91.9	666.7 -21.0 666.7 -18.0 666.2 -37.0	1 Airspace Study/Removal 7 Airspace Study/Removal
1588 1589 1592	Tree Tree Tree	636.2 639.2 633.4	621.8 621.8 621.6	14.3 17.4 11.8	650.5 650.4 650.2	-14.3 -11.2 -16.8	666.1 666.1 665.9	-30.0 -26.9 -32.4	691.3 691.2 690.9	-55.1 -52.0 -57.5	720.3 720.2 720.0	-84.2 -81.1 -86.6	666.1 -30.0 666.1 -26.0 665.9 -32.0	9 Airspace Study/Removal
1593 1594 1596	Tree Tree Building	628.6 621.0 621.2	621.6 621.5 621.4	7.0 -0.5 -0.2	650.2 650.1 649.9	-21.6 -29.1 -28.7	665.8 665.7 665.5	-37.2 -44.7 -44.3	690.9 690.8 -	-62.3 -69.7	720.0 719.8 719.6	-91.4 -98.8 -98.4	665.8 -37.3 665.7 -44.3 665.5 -44.3	2 Airspace Study/Removal 7 No Action
1598 1599 1601	Tree Tree Tree	658.0 647.0 659.1	621.4 621.3 621.1	36.7 25.7 38.0	649.9 649.8 649.5	8.2 -2.7 9.6	665.4 665.3 665.1	-7.4 -18.3 -5.9	690.5 690.4 690.0	-32.5 -43.3 -30.9	719.6 719.5 719.1	-61.6 -72.4 -60.0	665.4 -7.4 665.3 -18.3 665.1 -5.9	Airspace Study/Removal Airspace Study/Removal
1601 1602 1604 1605	Tree Tree Tree Tree	633.3 645.4 616.9	621.0 621.0 621.0 620.9	38.0 12.3 24.4 -4.0	649.4 649.4 649.3	-16.1 -4.0 -32.4	664.9 664.9 664.8	-5.9 -31.7 -19.5 -47.9	689.9 689.8 689.8	-30.9 -56.6 -44.4 -72.9	719.1 719.0 719.0 718.9	-60.0 -85.7 -73.5 -102.0	664.9 -31. 664.9 -19. 664.8 -47.	7 Airspace Study/Removal 5 Airspace Study/Removal
1607 1608	Tree Tree	615.5 619.1	620.9 620.9	-5.3 -1.8	649.3 649.2	-33.7 -30.1	664.7 664.7	-49.2 -45.6	689.8 689.7 689.6	-72.9 -74.1 -70.5	718.8 718.8	-103.2 -99.7	664.7 -49.3 664.7 -45.0	No Action No Action
1609 1610 1611	Utility Pole Tree Building	620.0 629.9 621.1	620.8 620.7 620.6	-0.8 9.2 0.5	649.2 649.0 648.9	-29.2 -19.1 -27.8	664.6 664.5 -	-44.6 -34.6	- 689.4 -	- -59.5 -	718.7 718.5 -	-98.7 -88.6	664.6 -44.0 664.5 -34.0	6 Airspace Study/Removal
1612 1614 1615	Tree Tree Tree	626.0 647.0 644.5	620.6 620.6 620.6	5.4 26.4 24.0	648.9 648.9 648.9	-22.9 -1.9 -4.3	664.4 664.3 664.3	-38.3 -17.3 -19.8	689.2 689.1 689.1	-63.2 -42.2 -44.6	718.4 718.3 718.3	-92.3 -71.3 -73.8	664.4 -38.3 664.3 -17.3 664.3 -19.3	3 Airspace Study/Removal
1617 1621 1623	Tree Tree Tree	612.2 640.2 631.9	620.5 620.2 620.1	-8.3 20.0 11.9	648.7 648.4 648.2	-36.5 -8.2 -16.3	664.1 663.8 663.5	-51.9 -23.5 -31.6	- 688.6 688.3	-48.3 -56.4	718.1 717.8 717.5	-105.9 -77.5 -85.6	664.1 -51.5 663.8 -23.5 663.5 -31.6	5 Airspace Study/Removal
1626 1627 1628	Tree Tree Tree	625.6 641.9 617.3	620.0 620.0 619.8	5.6 21.9 -2.5	648.2 648.2 648.0	-22.6 -6.3 -30.6	663.5 663.4 663.2	-37.9 -21.5 -45.9	688.2 688.2	-62.6 -46.3	717.4 717.4 717.2	-91.8 -75.5 -99.8	663.5 -37.9 663.4 -21.9 663.2 -45.9	9 Airspace Study/Removal 5 Airspace Study/Removal
1628 1629 1631 1632	Tree Tree	627.6 643.1	619.8 619.8 619.8	7.8 23.3 10.7	647.9 647.9 647.9	-30.6 -20.3 -4.8 -17.4	663.1 663.1	-35.6 -20.0	687.9 687.8	-60.3 -44.8	717.2 717.1 717.0 717.0	-99.8 -89.5 -74.0 -86.6	663.1 -35.0 663.1 -20.0	6 Airspace Study/Removal 0 Airspace Study/Removal
1634 1636	Tree Tree Tree	630.5 621.9 642.4	619.6 619.4	2.4 23.0	647.6 647.4	-25.7 -5.1	663.1 662.8 662.6	-32.6 -40.9 -20.2	687.8 687.5 687.3	-57.3 -65.5 -44.9	716.7 716.5	-94.8 -74.1	663.1 -32.0 662.8 -40.0 662.6 -20.0	9 Airspace Study/Removal 2 Airspace Study/Removal
1638 1639 1644	Tree Tree Tree	641.6 634.5 627.0	619.4 619.4 619.2	22.2 15.1 7.8	647.4 647.4 647.2	-5.8 -12.9 -20.2	662.5 662.5 662.3	-20.9 -28.0 -35.3	687.2 687.1 686.9	-45.6 -52.7 -59.9	716.4 716.4 716.2	-74.8 -81.9 -89.2	662.5 -20.9 662.5 -28.0 662.3 -35.3	O Airspace Study/Removal Airspace Study/Removal
1645 1648 1649	Tree Tree Tree	638.4 639.2 639.0	619.1 619.0 618.9	19.2 20.2 20.1	647.1 646.9 646.8	-8.7 -7.7 -7.8	662.2 661.9 661.9	-23.8 -22.7 -22.8	686.8 686.5 -	-48.4 -47.3	716.0 715.8 715.7	-77.7 -76.6 -76.7	662.2 -23.3 661.9 -22.3 661.9 -22.3	7 Airspace Study/Removal 8 Airspace Study/Removal
1650 1655 1657	Tree Tree Tree	641.9 622.9 633.1	618.8 618.6 618.5	23.1 4.3 14.5	646.7 646.4 646.3	-4.8 -23.5 -13.3	661.7 661.4 661.3	-19.8 -38.5 -28.2	- 685.9 685.8	-63.0 -52.7	715.5 715.2 715.1	-73.7 -92.3 -82.0	661.7 -19.8 661.4 -38.1 661.3 -28.3	5 Airspace Study/Removal
1658 1659 1660	Tree Tree Tree	634.1 608.6 629.2	618.5 618.4 618.4	15.6 -9.8 10.8	646.3 646.2 646.1	-12.2 -37.6 -16.9	661.3 661.1 661.1	-27.2 -52.5 -31.9	685.8 685.5	-51.6 -76.9	715.0 714.8 714.8	-80.9 -106.2 -85.6	661.3 -27.3 661.1 -52.1 661.1 -31.5	2 Airspace Study/Removal 5 No Action
1661 1662 1663	Tree Tree Tree	636.2 620.5 617.5	618.4 618.3 618.2	17.8 2.2 -0.8	646.1 646.0 646.0	-9.9 -25.5 -28.5	661.0 660.9 660.9	-24.8 -40.4 -43.4	- 685.3 -	-64.8 -	714.8 714.6 714.6	-78.6 -94.1 -97.1	661.0 -24.3 660.9 -40.4 660.9 -43.4	8 Airspace Study/Removal 4 Airspace Study/Removal
1664 1665	Tree Tree	631.7 638.8	618.2 618.2	13.4 20.6	645.9 645.9	-14.3 -7.1	660.8 660.8	-29.2 -22.0	685.3 685.2	-53.6 -46.4	714.6 714.5	-82.9 -75.7	660.8 -29.3 660.8 -22.0	2 Airspace Study/Removal 0 Airspace Study/Removal
1666 1668 1669	Tree Tree Tree	625.0 642.5 645.7	618.1 618.1 618.0	6.9 24.5 27.7	645.8 645.8 645.7	-20.8 -3.2 0.0	660.7 660.6 660.5	-35.7 -18.1 -14.8	- 685.0 684.9	- -42.5 -39.2	714.4 714.3 714.2	-89.4 -71.8 -68.5	660.7 -35. 660.6 -18. 660.5 -14.	Airspace Study/Removal Airspace Study/Removal
1670 1671 1672	Tree Tree Tree	624.6 630.5 615.8	617.9 617.9 617.9	6.7 12.6 -2.1	645.5 645.5	-20.9 -15.0 -29.7	660.4 660.3	-35.8 -29.8 -44.6	684.7	-60.1 - -	714.1 714.0 714.0	-89.4 -83.5 -98.2	660.4 -35.8 660.4 -29.8 660.3 -44.8	8 Airspace Study/Removal 6 No Action
1673 1675 1676	Utility Pole Tree Tree	619.9 631.0 620.4	617.9 617.7 617.7	2.1 13.3 2.7	645.5 645.3 645.2	-25.6 -14.3 -24.9	660.3 660.1 660.0	-40.4 -29.1 -39.7	- - 684.3	- - -64.0	714.0 713.7 713.7	-94.1 -82.7 -93.3	660.3 -40.4 660.1 -29.1 660.0 -39.1	Airspace Study/Removal Airspace Study/Removal
1679 1680 1682	Tree Tree Tree	624.1 621.1 625.5	617.5 617.5 617.4	6.6 3.7 8.1	645.0 645.0 645.0	-20.9 -23.9 -19.4	659.8 659.7 659.7	-35.6 -38.6 -34.1	- 683.9	-58.4	713.4 713.4 713.3	-89.3 -92.2 -87.8	659.8 -35.0 659.7 -38.0 659.7 -34.0	6 Airspace Study/Removal 6 Airspace Study/Removal
1684 1685 1686	Tree Utility Pole Tree	636.6 621.8 641.8	617.3 617.3 617.0	19.3 4.5 24.7	644.8 644.8 644.5	-19.4 -8.2 -23.0 -2.7	659.5 659.5 659.1	-34.1 -22.9 -37.7 -17.3	- 683.3	-58.4	713.2 713.1 712.7	-76.5 -91.3 -70.9	659.5 -22.5 659.5 -37.7 659.1 -17.3	9 Airspace Study/Removal 7 Airspace Study/Removal
1687 1688	Tree Tree	610.5 641.1	617.0 617.0	-6.6 24.2	644.4 644.4	-2.7 -34.0 -3.2 3.0	659.1 659.0	-48.6 -17.9	683.1	-	712.7 712.6	-102.2 -71.4	659.1 -48.0 659.0 -17.5	6 No Action 9 Airspace Study/Removal
1689 1690 1691	Tree Tree Tree	647.4 619.5 644.9	617.0 616.9 616.9	30.4 2.6 28.0	644.3 644.3	-24.8 0.6	659.0 658.9 658.9	-11.6 -39.4 -14.0	683.1 683.0	-35.8 -63.6 -38.2	712.5 712.5 712.4	-65.2 -93.0 -67.6	659.0 -11.0 658.9 -39.4 658.9 -14.0	4 Airspace Study/Removal 0 Airspace Study/Removal
1693 1694 1695	Tree Tree Tree	619.9 637.8 614.1	616.7 616.6 616.6	3.2 21.2 -2.6	644.0 644.0 643.9	-24.1 -6.2 -29.9	658.5 658.5 658.4	-38.7 -20.7 -44.4	682.6 682.6 682.5	-62.8 -44.8 -68.5	712.0 712.0 712.0	-92.2 -74.2 -97.9	658.5 -38.5 658.5 -20.5 658.4 -44.6	7 Airspace Study/Removal 4 No Action
1696 1697 1698	Tree Tree Tree	640.5 638.9 610.7	616.5 616.4 616.2	24.0 22.5 -5.5	643.8 643.6 643.4	-3.3 -4.7 -32.7	658.3 658.1 657.8	-17.8 -19.2 -47.1	682.4 682.1 681.8	-41.9 -43.3 -71.1	711.9 711.6 711.3	-71.3 -72.7 -100.6	658.3 -17.3 658.1 -19.3 657.8 -47.3	2 Airspace Study/Removal
1699 1700 1702	Tree Tree Tree	644.6 619.2 612.7	616.1 616.1 615.9	28.5 3.1 -3.2	643.3 643.3 643.1	1.3 -24.1 -30.3	657.8 657.7 657.5	-13.2 -38.5 -44.7	681.8 681.7 681.4	-37.2 -62.5 -68.7	711.2 711.2 710.9	-66.6 -92.0 -98.2	657.8 -13.3 657.7 -38.5 657.5 -44.3	2 Airspace Study/Removal 5 Airspace Study/Removal
1702 1703 1704 1705	Utility Pole Utility Pole	612.7 618.7 615.5 615.7	615.9 615.9 615.9	-3.2 2.8 -0.4 -0.1	643.0 643.0 642.9	-30.3 -24.3 -27.5 -27.2	657.4 657.4 657.2	-44.7 -38.7 -41.9 -41.5	(-)	-	710.9 710.8 710.8 710.7	-98.2 -92.1 -95.3 -94.9	657.3 -41.5 657.2 -41.5	7 Airspace Study/Removal 9 No Action
1706 1707	Utility Pole Utility Pole Tree	610.0 614.5	615.8 615.6	-5.8 -1.1	642.8 642.7	-32.9 -28.2	657.2 657.0	-47.2 -42.5	- - 681.0	-66.4	710.6 710.4	-100.6 -95.9	657.2 -47.3 657.0 -42.5	No Action No Action
1708 1709 1710	Utility Pole Tree Tree	617.1 623.4 614.7	615.6 615.5 615.5	1.5 7.8 -0.9	642.6 642.6 642.6	-25.5 -19.2 -27.9	656.9 656.9 656.9	-39.8 -33.5 -42.2	- 680.8 680.7	-57.4 -66.1	710.3 710.3 710.2	-93.2 -86.9 -95.6	656.9 -39.8 656.9 -33.8 656.9 -42.3	5 Airspace Study/Removal 2 No Action
1711 1713 1714	Tree Utility Pole Tree	614.0 619.3 626.0	615.5 615.3 615.3	-1.5 4.0 10.7 10.9	642.5 642.3 642.3 642.1	-28.5 -23.0 -16.3 -16.1	656.8 656.5 656.5 656.4	-42.8 -37.2 -30.6 -30.3		-	710.2 709.9 709.9 709.7	-96.2 -90.6 -83.9 -83.6	656.8 -42.8 	Airspace Study/Removal









LEGEND

1. Numbers shown in red are a penetration to the respective surface.

3. Items identified as "airspace study/removal" or "To Be Studied" are

objects which penetrate airspace surfaces and may require an OE/AAA

irspace case to further assess potential mitigation actions. In lieu of

further airspace study conclusions (e.g. marking and lighting or vegetation

2. Negative numbers shown are below the respective surface.

trimming), the identified objects are planned to be removed

REVISIONS DATE DESCRIPTION DRAWN BY CMT APPROVED BY

St. Louis Lambert DESIGN BY AJB & CAS International Airport CHECKED BY AJB & CAS St. Louis, Missouri

Part 77 Approach Departure Surface Threshold Siting Surface

613.8 -6.1 640.4 -32.7 654.3 -46.6

 627.6
 612.3
 15.4
 638.5
 -10.8
 652.1
 -24.4

 606.6
 612.1
 -5.5
 638.3
 -31.7
 651.8
 -45.2

624.0 612.0 12.0 638.1 -14.1 651.6 -27.6

608.9 611.8 -3.0 638.0 -29.1 651.5 -42.6

604.2 611.6 -7.4 637.6 -33.5 651.1 -46.9

603.1 611.4 -8.3 637.4 -34.3 650.8 -47.7

617.5 611.3 6.3 637.2 -19.7 650.6 -33.0

 631.2
 610.5
 20.7
 636.2
 -5.0
 649.4
 -18.2

 621.3
 610.0
 11.3
 635.6
 -14.3
 648.7
 -27.4

612.0 **13.5** 638.2 -12.6 651.7 -26.1

611.9 **12.2** 638.0 -13.9 651.5 -27.4

611.6 -5.2 637.7 -31.2 651.1 -44.6

611.5 **12.2** 637.5 -13.8 650.9 -27.2

611.3 -5.0 637.3 -31.0 650.7 -44.4

 609.7
 -3.0
 635.2
 -28.6
 648.3
 -41.6

 609.6
 19.6
 635.2
 -6.0
 648.2
 -19.0

 609.3
 10.1
 634.7
 -15.4
 647.7
 -28.3

 609.2
 -3.1
 634.7
 -28.6
 647.6
 -41.5

607.4 -2.3 632.4 -27.3 644.9 -39.9

607.4 -1.3 632.3 -26.3 644.9 -38.8

599.0 607.3 -8.3 632.3 -33.3 644.8 -45.8 -

603.5 603.0 <mark>0.4</mark> 626.9 -23.5 638.5 -35.0

 598.2
 -2.9
 620.8
 -25.5
 631.3
 -36.0
 651.8

 508.0
 2.8
 630.6
 -19.9

 596.3
 -5.3
 618.5
 -27.5
 628.6
 -37.6
 648.7

-7.3 552.5 -16.2 551.0 -14.7 560.7

-11.9 540.1

 541.5
 -6.8
 550.0
 -15.3
 548.0
 -13.3
 557.4
 -22.7
 592.0
 -57.3

 541.5
 -6.8
 550.0
 -15.3
 548.0
 -13.3
 557.4
 -22.7
 592.0
 -57.3

Runway Light 534.2 539.7 -5.5 547.7 -13.5 545.4 -11.2 554.4 -20.2 589.1 -54.9 545.4 -11.2 Fixed by Function

-85.5

-48.3 615.7

-49.9

563.2 590.7 -27.5 611.5 -48.3 620.3 -57.1 639.3 -76.1 670.5 -107.4 620.3 -57.1

549.8 -9.0 618.5 -77.7 - -

534.3 -4.2 541.0 -10.9 537.4

529.8 2.4 550.4 -18.3 530.8

 605.5
 -48.9
 630.0
 -73.4
 642.1

 603.4
 -46.2
 627.4
 -70.2
 639.1

575.9 602.1 -26.2 625.8 -49.9 637.2 -61.3

540.0 544.6 -4.6 553.9 -13.9 552.6 -12.6

582.4 -24.2 601.1

598.3 -42.6 621.1 -65.3 631.6 -75.8

599.0 -10.2 621.9 -33.1 632.6 -43.8 653.2

609.5

 586.8
 -26.8
 606.6
 -46.6
 614.6
 -54.6
 632.8
 -72.8
 664.3
 -104.3

604.2 601.7 2.5 625.3 -21.1 -

 597.6
 0.9
 620.2
 -21.6

 597.3
 7.9
 619.8
 -14.6

549.6

596.8 -4.5 619.2 -26.8

 599.9
 608.5
 -8.6
 633.7
 -33.9
 646.5
 -46.6

 599.5
 608.1
 -8.5
 633.2
 -33.7
 645.9
 -46.4

 609.6
 608.0
 1.6
 633.2
 -23.6
 645.8
 -36.2

 598.4
 607.9
 -9.5
 633.1
 -34.7
 645.7
 -47.3

 621.7
 607.8
 13.9
 632.9
 -11.2
 645.5
 -23.8

609.2 -9.5 634.6 -35.0 647.6 -47.9

626.6 611.3 **15.3** 637.3 -10.7 650.7 -24.1

613.8 **3.3** 640.3 -23.3 654.3 -37.2

615.0 **13.6** 641.9 -13.3 656.1 -27.5 679.9

Description

Utility Pole

Utility Pole

Utility Pole

Utility Pole

Tank

Light Pole

Utility Pole

Tree

Utility Pole

Utility Pole

Light Pole

Utility Pole Utility Pole

Utility Pole

Tree

Utility Pole

Utility Pole

Utility Pole

Utility Pole

Utility Pole

Utility Pole

Building

Utility Pole Utility Pole

Traffic Light/Signal

Traffic Light/Signal

Utility Pole

Utility Pole

Utility Pole

Utility Pole Light Pole

Light Pole

Utility Pole

Utility Pole

Utility Pole

Utility Pole

Utility Pole

Fence

Solar Panels

Pole

Localizer Localizer Street_Sign Pole Util Box

Building

Runway Light

Runway Light

Runway Light

Runway Light Runway Light

Runway Light

Runway Light

Runway Light

Runway Light

Runway Light

Runway Light

Runway Light

Guard Rail

Fence

Guard Rail

Dirt Pile

Dirt Pile

Vertical Point

Solar Panels

Solar Panels Light Pole

Service Road Service Road Service Road

Service Road

Service Road

Service Road

Service Road

Service Road

Service Road

Service Road

Service Road

Service Road

1866

1868

Light Pole

605.2

536.3

532.2

528.5

Utility Pole

623.7

| Surface | Penetration/ | Surface | Penetrati

615.8 615.0 0.7 641.9 -26.2 656.1 -40.4 - - 709.5 -93.7 656.1 -40.4 Airspace Study/Remova

614.7 0.0 641.6 -26.8 655.7 -40.9 679.4 -64.7 709.0 -94.2 655.7 -40.9 Airspace Study/Removal 614.7 5.2 641.5 -21.6 655.6 -35.8 679.3 -59.5 708.9 -89.0 655.6 -35.8 Airspace Study/Removal 614.7 5.2 641.5 -21.6 655.6 -35.8 679.3 -59.5 708.9 -89.0 655.6 -35.8 Airspace Study/Removal 614.7 615.5 614.7 615.7 614.7 615.7 614.7 615.7 614

613.6 5.0 640.1 -21.5 654.0 -35.4 677.5 -58.9 707.1 -88.5 654.0 -35.4 Airspace Study/Removal 613.5 7.8 640.0 -18.8 653.9 -32.6 677.3 -56.1 707.0 -85.7 653.8 -32.6 Airspace Study/Removal 613.3 -5.5 639.8 -32.0 653.6 -45.8 677.0 -69.3 706.7 -98.9 653.6 -45.8 No Action 613.2 9.3 639.7 -17.1 653.5 -30.9 676.9 -54.4 706.6 -84.0 653.5 -30.9 Airspace Study/Removal 613.0 16.1 639.4 -10.4 653.2 -24.1 - - 706.3 -77.2 653.2 -24.1 Airspace Study/Removal 613.0 55.0 653.0 -45.9 No Action 653.0

614.6 -2.0 641.4 -28.8 655.5 -42.9 679.3 -66.6 708.8 -96.1 655.5 -42.9 No Action

608.2 615.0 -6.8 641.9 -33.7 656.1 -47.9 679.9 -71.6 709.4 -101.2 656.1 -47.9 No Action

625.5 614.3 11.2 641.1 -15.5 655.1 -29.5 678.7 -53.2 708.3 -82.8 655.1 -29.5 Airspace Study/Removal
 5.6
 641.1
 -21.2
 655.1
 -35.2
 678.7
 -58.8
 708.3
 -88.4
 655.1
 636.3 614.2 22.1 640.9 -4.6 654.9 -18.6 678.5 -42.2 708.1 -71.8 654.9 -18.6 Airspace Study/Remova 613.2 614.0 -0.8 640.7 -27.5 654.6 -41.5 678.2 -65.1 707.8 -94.7 654.6 -41.5 No Action 622.8 614.0 8.8 640.6 -17.8 654.6 -31.8 678.2 -55.4 707.8 -85.0 654.6 -31.8 Airspace Study/Remova

625.2 613.9 11.2 640.6 -15.4 654.5 -29.4 678.1 -52.9 707.7 -82.5 654.5 -29.4 Airspace Study/Removal 609.6 613.9 -4.3 640.5 -30.9 654.5 -44.9 678.1 -68.4 707.7 -98.1 654.5 -44.9 No Action 611.1 613.9 -2.7 640.5 -29.4 654.4 -43.3 678.0 -66.9 707.6 -96.5 654.4 -43.3 No Action 607.6 613.8 -61 640.4 -32.7 654.3 -46.6

607.1 612.9 -5.8 639.3 -32.2 653.0 -45.9 676.4 -69.3 706.1 -99.0 653.0 -45.9 No Action 618.0 612.8 5.3 639.1 -21.1 652.8 -34.8 676.2 -58.1 705.9 -87.8 652.8 -34.8 Airspace Study/Remova

-51.3 709.4 -80.8

707.4 -99.8

- 705.5 -60.8 652.4 -7.7 Airspace Study/Remov. - 705.2 -98.9 652.2 -45.9 No Action

705.0 -77.4 652.1 -24.4 Airspace Study/Removal
704.8 -98.2 651.8 -45.2 No Action
704.6 -79.1 651.7 -26.1 Airspace Study/Removal
704.5 -80.6 651.6 -27.6 Airspace Study/Removal

704.4 -80.3 651.5 -27.4 Airspace Study/Remova 704.4 -95.5 651.4 -42.6 No Action

704.0 -97.5 651.1 -44.6 No Action 703.9 -99.8 651.1 -46.9 No Action

703.8 -80.1 650.9 -27.2 Airspace Study/Remova
703.7 -100.6 650.8 -47.7 No Action

703.5 -76.9 650.7 -24.1 Airspace Study/Remova

-97.2 650.7 -44.4

702.9 -96.2 650.1 -43.4 No Action

702.6 -89.2 - - Airspace Study/Removal
702.4 -91.4 649.7 -38.6 Airspace Study/Removal
702.2 -71.0 649.4 -18.2 Airspace Study/Removal
701.4 -80.1 648.7 -27.4 Airspace Study/Removal

 700.9
 -94.2
 648.3
 -41.6
 No Action

 700.8
 -71.6
 648.2
 -19.0
 Airspace Study/Remova

700.1 -100.5 647.6 -47.9 No Action
699.0 -99.1 646.5 -46.6 No Action
698.3 -98.8 645.9 -46.4 No Action
698.2 -88.6 - Airspace Study/Removal
698.1 -99.7 645.7 -47.3 No Action
697.9 -76.2 645.5 -23.8 Airspace Study/Removal

697.3 -92.2 644.9 -39.9 No Action 697.2 -91.2 644.9 -38.8 No Action

697.2 -98.1 644.8 -45.8 No Action

696.2 -97.0 643.9 -44.7

694.2 -95.8 642.1 -43.6

-97.6 643.2

- - Airspace Study/Remova 647.6 -41.5 No Action

703.4 -85.9 -

700.2 -80.9

693.3 -86.6

690.3 -86.8

611.8 -67.8 566.3

-7.7 556.6 -17.5 555.8 -16.7 566.2 -27.1 600.4 -61.3 555.8 -16.7

-8.7 548.4 -17.0 583.4 -52.0

-7.3 545.4 -15.3 580.5 -50.4

-4.9 545.0 -12.8 580.2 -47.9

573.3 -41.1

565.8 -37.3

683.9 -95.1

609.3 -66.5

597.0 -57.0

647.9 -96.7

631.6

-1.5 565.8 -37.3

-7.3 545.4 -15.3 580.5 -50.4

No Action

Airspace Study/Remova

No Action

Airspace Study/Remova

Airspace Study/Remova No Action

Airspace Study/Remova Airspace Study/Remov

Airspace Study/Remova Airspace Study/Remov

No Action

No Action

No Action Airspace Study/Remov

Airspace Study/Remova

Airspace Study/Remova

Airspace Study/Remova

Airspace Study/Remova

No Action

No Action No Action

No Action Airspace Study/Remov Airspace Study/Remova

No Action

No Action

No Action

No Action No Action

No Action

No Action

No Action

No Action Fixed by Function

Fixed by Function Fixed by Functio Fixed by Function

Fixed by Functio

Fixed by Function Fixed by Function No Action

> No Action No Action

> No Action No Action

No Action

No Action No Action

No Action

No Action

No Action

No Action No Action

Fixed by Function

No Action No Action

No Action

No Action

No Action

No Action

No Action

No Action

No Action

No Action

No Action

No Action

Airspace Study/Remova

Airspace Study/Remov

-33.1 Airspace Study/Remova -28.0 Airspace Study/Remova

Elevation (MSL) Elevation | Clearance | Elevation | Cl

 613.7
 7.3
 640.2
 -19.3
 654.1
 -33.1
 677.7
 -56.7
 707.3
 -86.3

 613.7
 12.4
 640.2
 -14.1
 654.1
 -28.0
 677.7
 -51.5
 707.3
 -81.2

 604.8
 613.7
 -8.9
 640.2
 -35.4
 654.1
 -49.3
 677.6
 -72.8
 707.3
 -102.5
 654.1

 618.5
 613.6
 5.0
 640.1
 -21.5
 654.0
 -35.4
 677.5
 -58.9
 707.1
 -88.5
 654.0

Runway 12L Obstruction Tables Inner Portion (Existing/Future)

SCALE AS NOTED JOB NO 3/2023 SHEET 52 OF 59 SHEETS