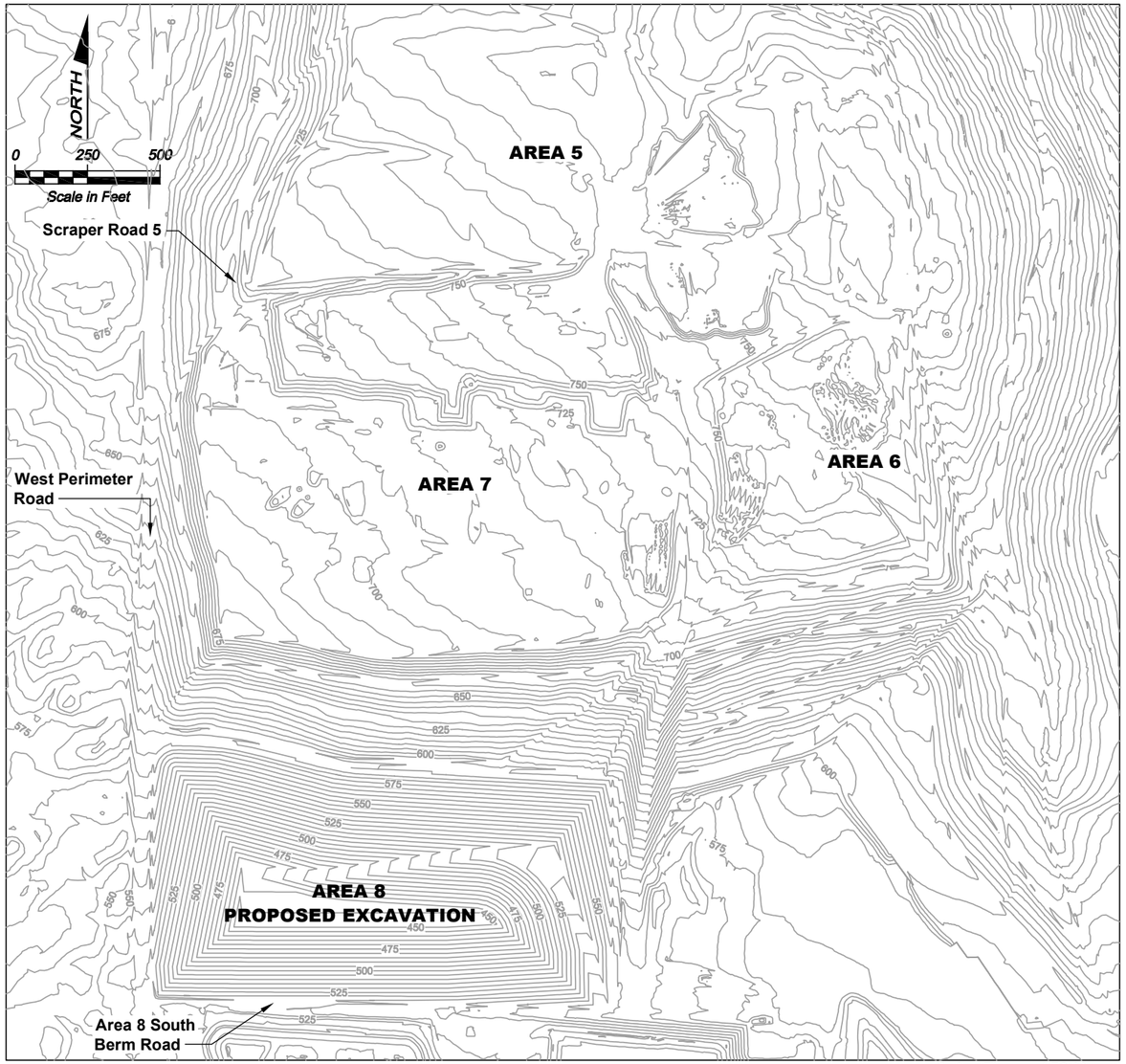
Attachment D

Landfill Capacity Documentation

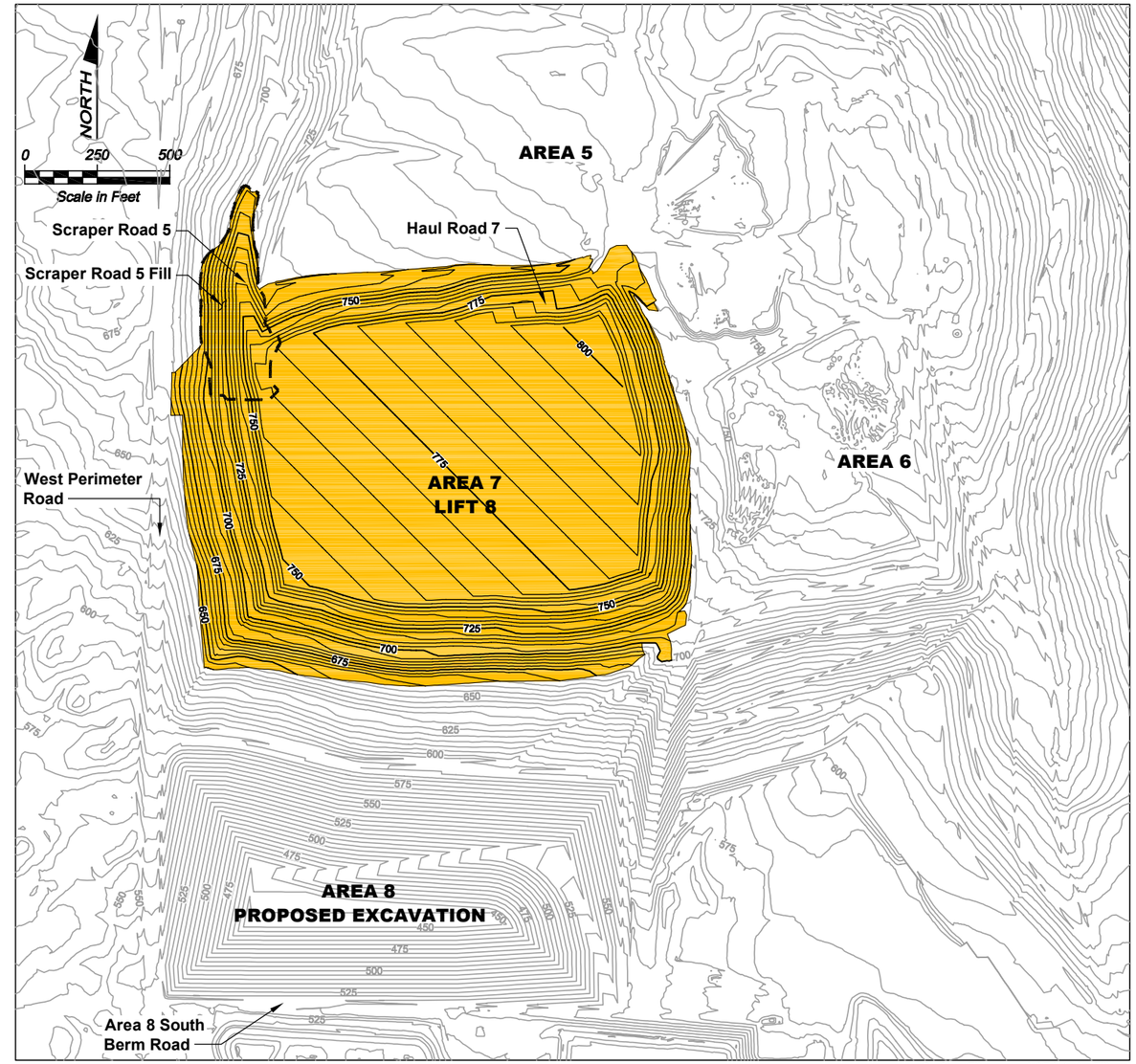


Surface Filename: 1 EG A8ex.xml

EXISTING CONDITIONS

THE EXISTING CONDITIONS SURFACE INCLUDES THE FOLLOWING ELEMENTS:

- FALL 2016 AERIAL, FLOWN SEPTEMBER 14, 2016
- AREA 8 PROPOSED EXCAVATION



Surface Filename: 1 A7 Interim Fill.xml
1 EG FG.xml

PROPOSED CONDITIONS

AREA 7 FILLING TO LIFT 8; TOP DECK TO A MAXIMUM ELEVATION OF 800 WITH CONSTANT 4% SLOPE FROM NE CORNER TO SW CORNER

VOLUME:

3,297,000 - CY SURFACE COMPARISON

ADJUSTMENTS:

- 53,000 - SOIL PLACED FOR SCRAPER RD 5. SOIL FILLED OVER COVER

NET VOLUME*:

3,244,000 CY

*VOLUMES INCLUDE BOTH INTERIM AND FINAL COVER SYSTEMS

03-24-17

HDR

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Seattle, WA 98101
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www.bhcconsultants.com

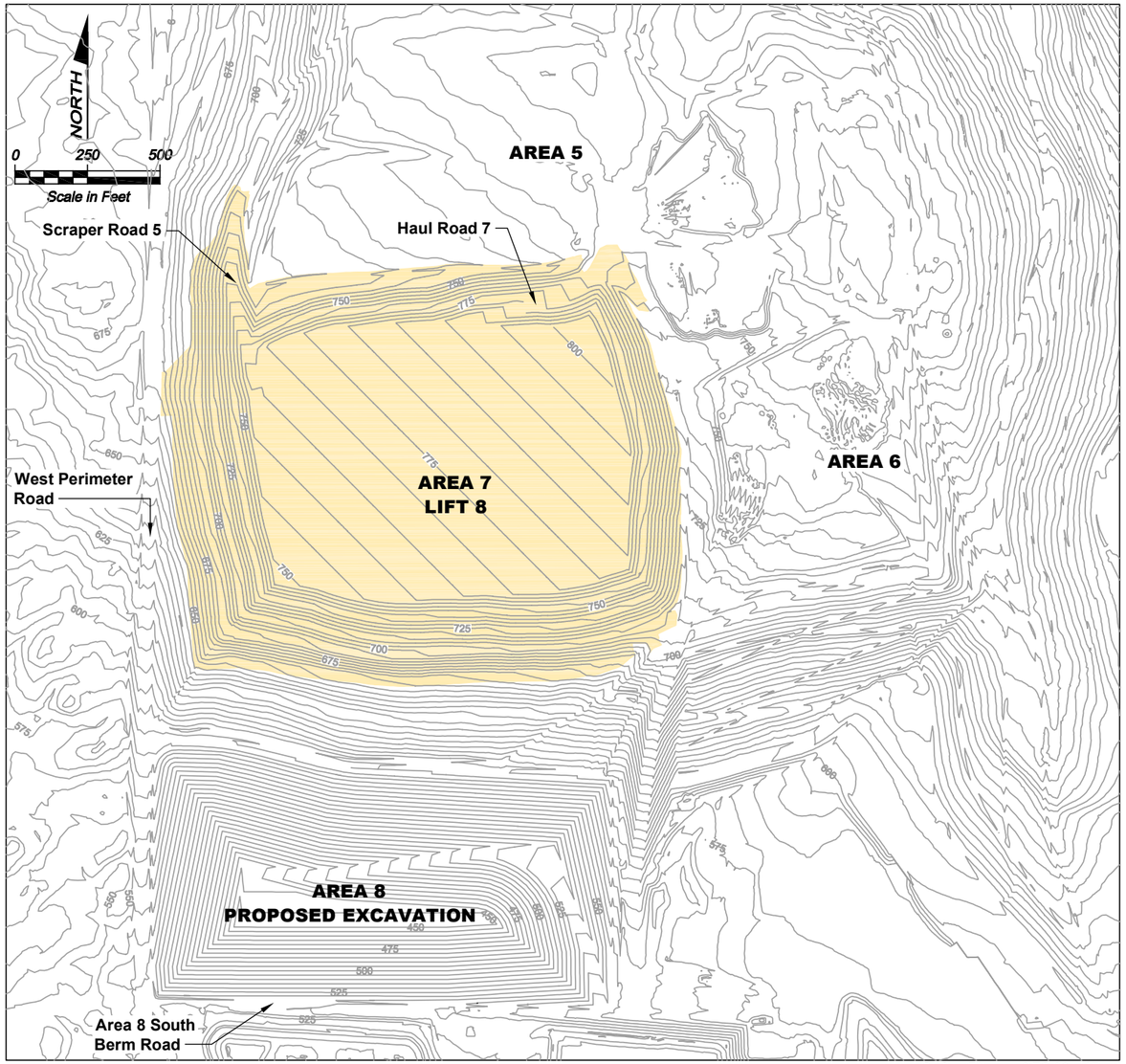
King County
Department of Natural Resources & Parks
Solid Waste Division

Cedar Hills Regional Landfill
Area 7 Interim Proposed Filling

Figure 1

Date Mar 2017

Path: S:\Cad\King County\14-10343 Eng Report Filename: F14-10343_Fig_01 Plot date: Mar 24, 2017-02:09:32pm CAD User: gcastillo.
Xref Filename: | contour labels |

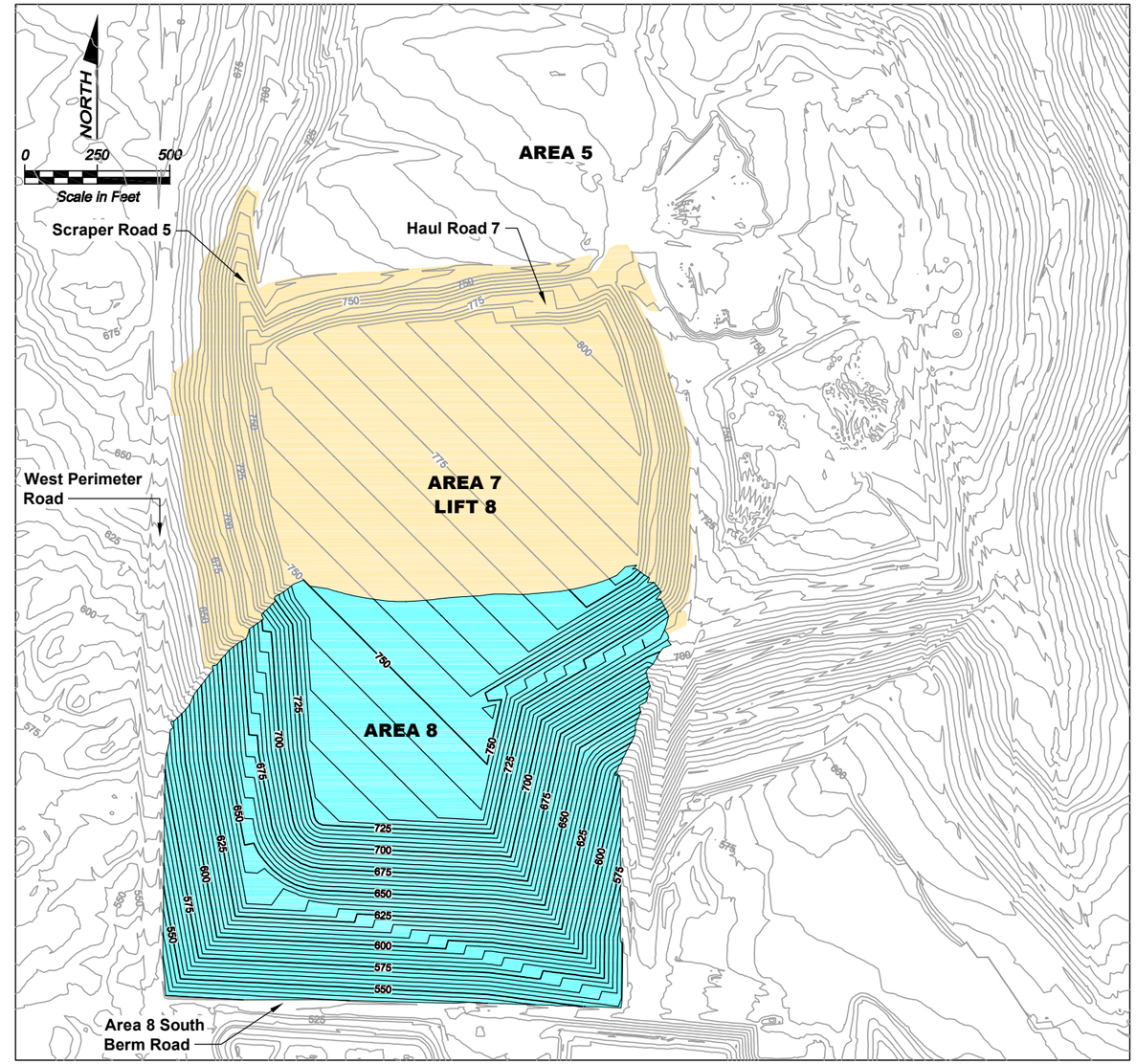


Surface Filename:2 EG A8ex A7.xml

EXISTING CONDITIONS

THE EXISTING CONDITIONS SURFACE INCLUDES THE FOLLOWING ELEMENTS:

- FALL 2016 AERIAL, FLOWN SEPTEMBER 14, 2016
- AREA 8 PROPOSED EXCAVATION
- AREA 7 PROPOSED INTERIM FILL



Surface Filename: A8 Interim Fill.xml

PROPOSED CONDITIONS

AREA 8 FILLING; TOP DECK CONTINUING FROM AREA 7 INTERIM TOP DECK WITH CONSTANT 4% SLOPE FROM NE CORNER TO SW CORNER

VOLUME:

7,842,000 CY - SURFACE COMPARISON

ADJUSTMENTS:

- NONE

NET VOLUME*:

7,842,000 CY

*VOLUMES INCLUDE BOTH INTERIM AND FINAL COVER SYSTEMS

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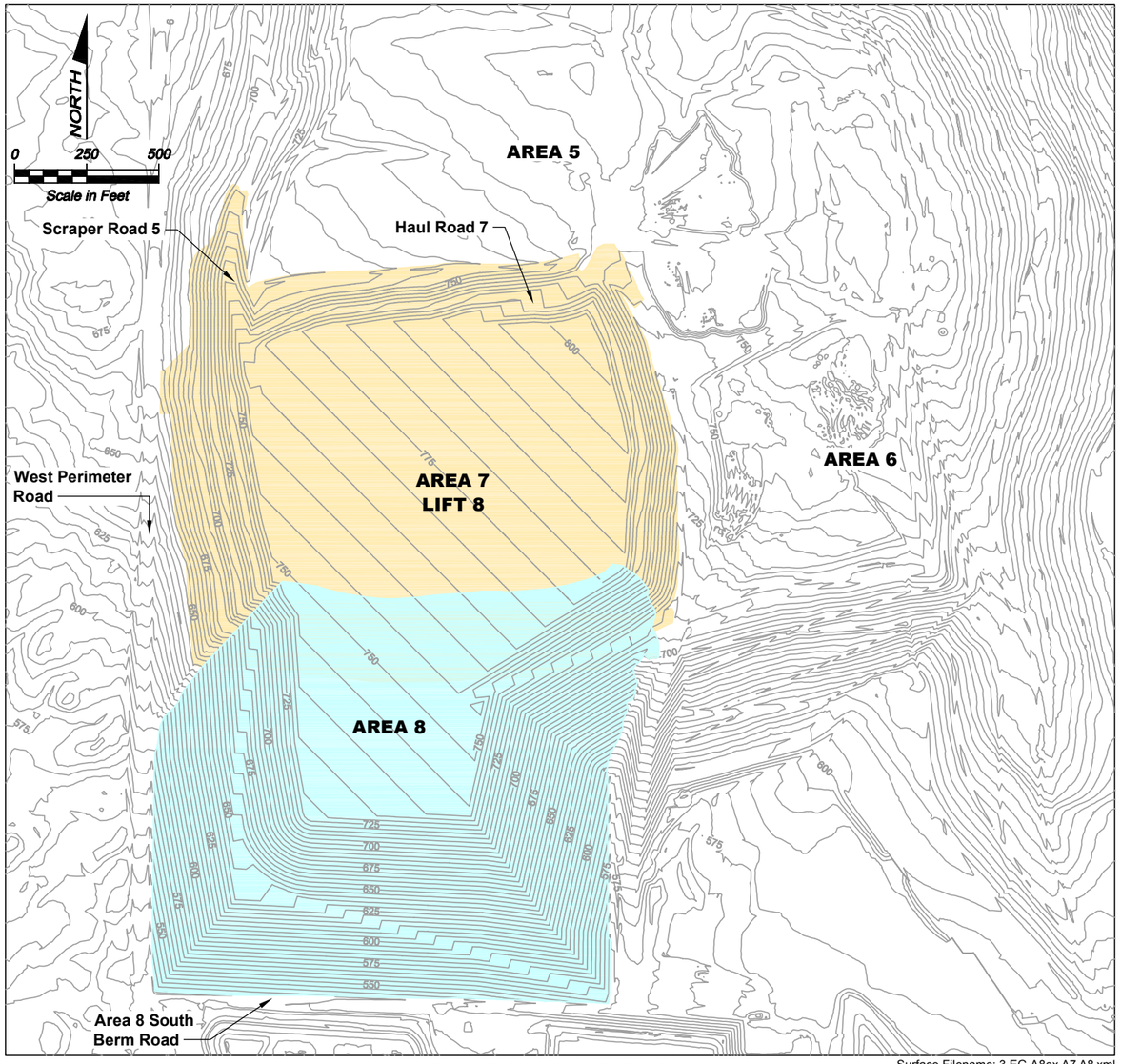
Solid Waste Division

Cedar Hills Regional Landfill
Area 8 Interim Proposed Filling

Figure
2

Date
Mar 2017

Path: S:\Cad\King County\14-10343 Eng Report Filename: F14-10343_Fig_02 Plot date: Mar 24, 2017-02:08:13pm CAD User: gcastillo.
Xref Filename: | contour labels |

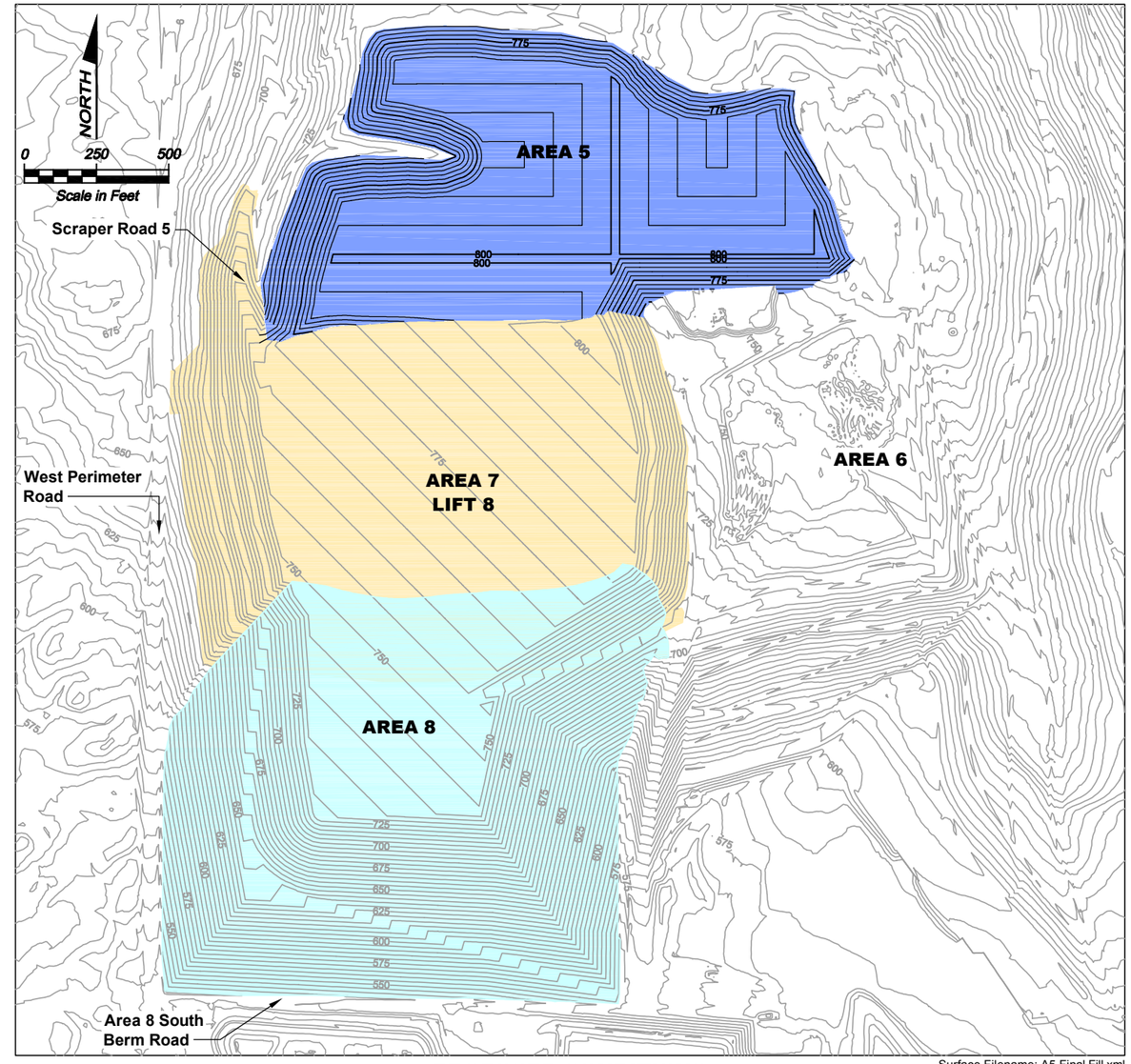


Surface Filename: 3 EG A8ex A7 A8.xml

EXISTING CONDITIONS

THE EXISTING CONDITIONS SURFACE INCLUDES THE FOLLOWING ELEMENTS:

- FALL 2016 AERIAL, FLOWN SEPTEMBER 14, 2016
- AREA 8 PROPOSED EXCAVATION
- AREA 7 PROPOSED INTERIM FILL
- AREA 8 PROPOSED INTERIM FILL



Surface Filename: A5 Final Fill.xml
3 EG FG.xml

PROPOSED CONDITIONS

AREA 5 FILLING; TOP DECK TO A MAXIMUM ELEVATION OF 800 WITH FINAL COVER CONFIGURATION

VOLUME:

1,682,000 CY - SURFACE COMPARISON

ADJUSTMENTS:

+ 241,000 CY - AREA 8 EXCAVATION STOCKPILE AND FACTORIA SOILS WITHIN AREA 5

NET VOLUME*:

1,923,000 CY

*VOLUMES INCLUDE BOTH INTERIM AND FINAL COVER SYSTEMS

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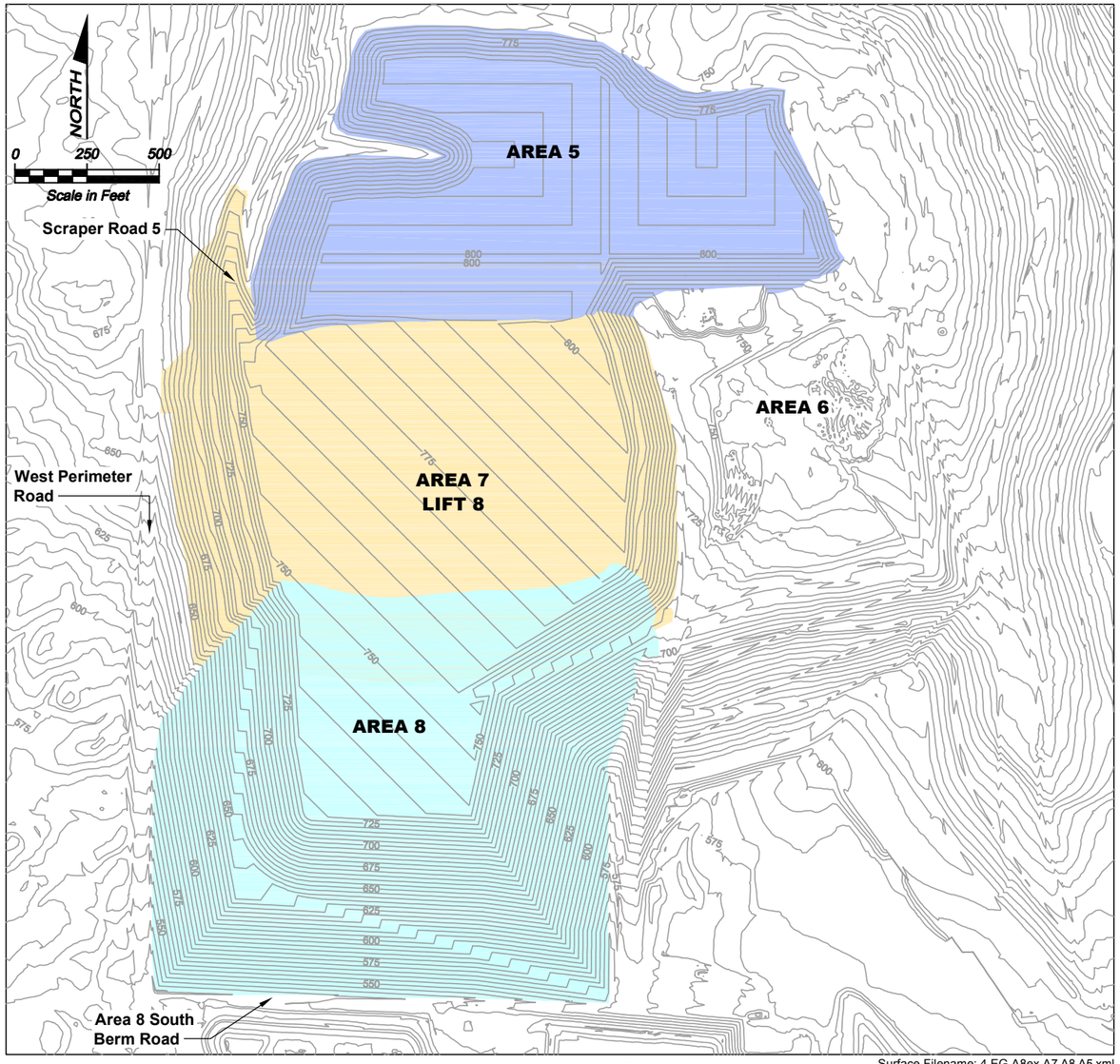
Cedar Hills Regional Landfill
Area 5 Proposed Final Filling

Figure
3

Date
Mar 2017

Path: S:\Cad\King County\14-10343 Eng Report Filename: F14-10343_Fig_03 Plot date: Mar 24, 2017-02:06:49pm CAD User: gcastillo.
Xref Filename: | contour labels |

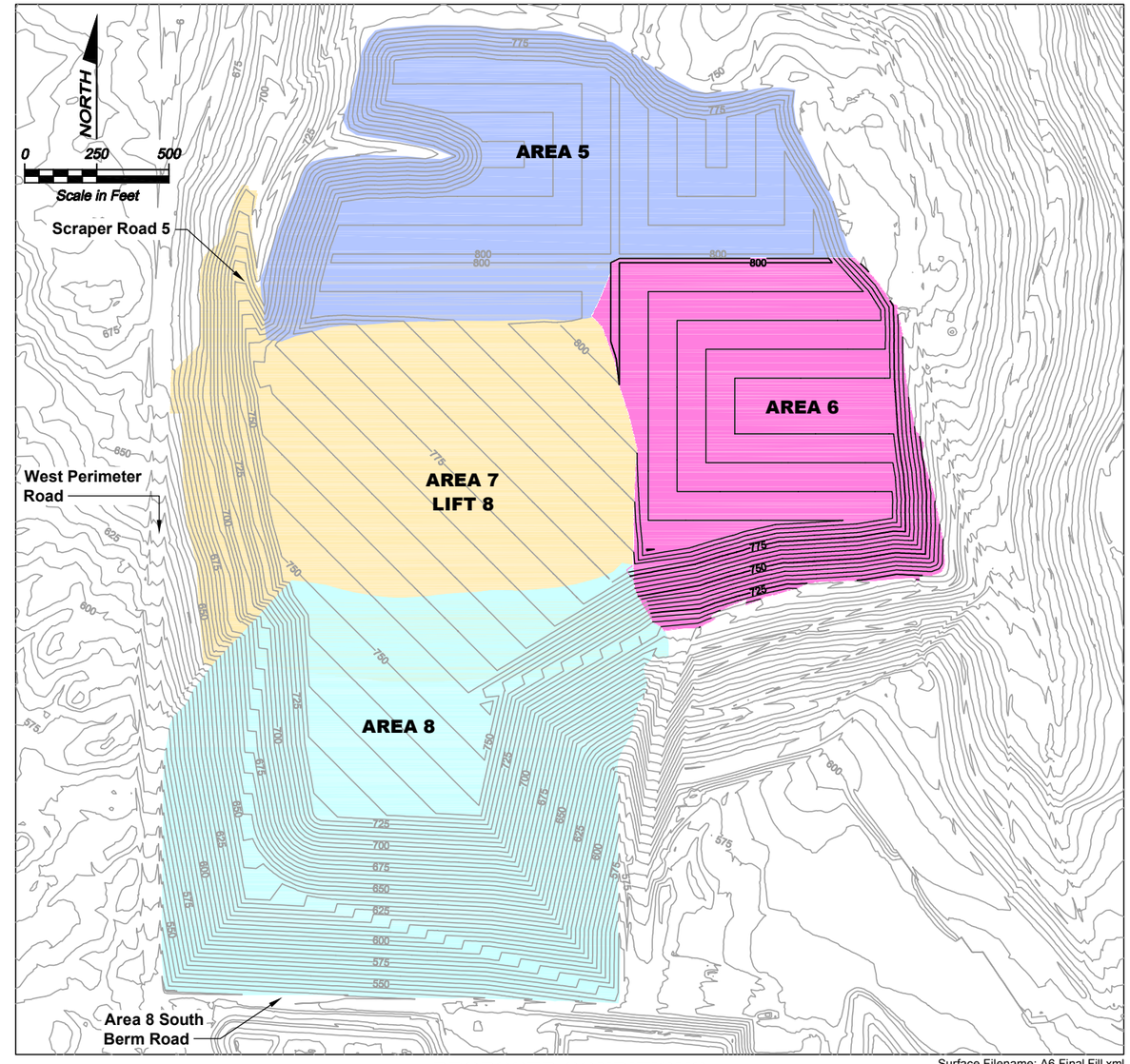


Surface Filename: 4 EG A8ex A7 A8 A5.xml

EXISTING CONDITIONS

THE EXISTING CONDITIONS SURFACE INCLUDES THE FOLLOWING ELEMENTS:

- FALL 2016 AERIAL, FLOWN SEPTEMBER 14, 2016
- AREA 8 PROPOSED EXCAVATION
- AREA 7 PROPOSED INTERIM FILL
- AREA 8 PROPOSED INTERIM FILL
- AREA 5 PROPOSED FINAL FILL



Surface Filename: A6 Final Fill.xml
4 EG FG.xml

PROPOSED CONDITIONS

AREA 6 FILLING; TOP DECK TO A MAXIMUM ELEVATION OF 800 WITH FINAL COVER CONFIGURATION

VOLUME:

1,165,000 CY - SURFACE COMPARISON

ADJUSTMENTS:

+ 202,000 CY - AREA 8 EXCAVATION STOCKPILE AND FACTORIA SOILS WITHIN AREA 6

NET VOLUME*:

1,367,000 CY

*VOLUMES INCLUDE BOTH INTERIM AND FINAL COVER SYSTEMS

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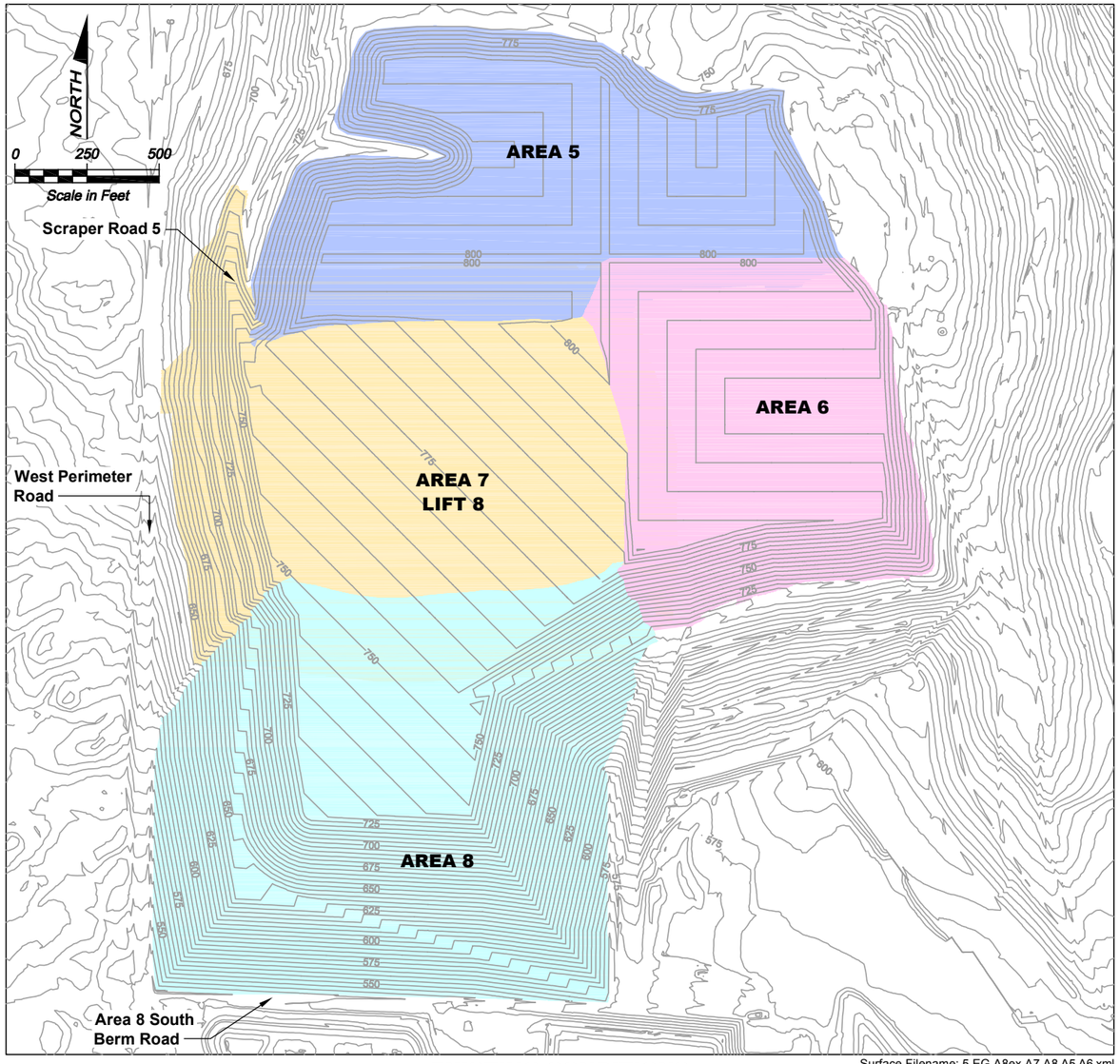
Solid Waste Division

Cedar Hills Regional Landfill
Area 6 Proposed Final Filling

Figure
4

Date
Mar 2017

Path: S:\Cad\King County\14-10343 Eng Report Filename: F14-10343_Fig_04 Plot date: Mar 24, 2017-02:11:43pm CAD User: gcastillo.
Xref Filename: | contour labels |

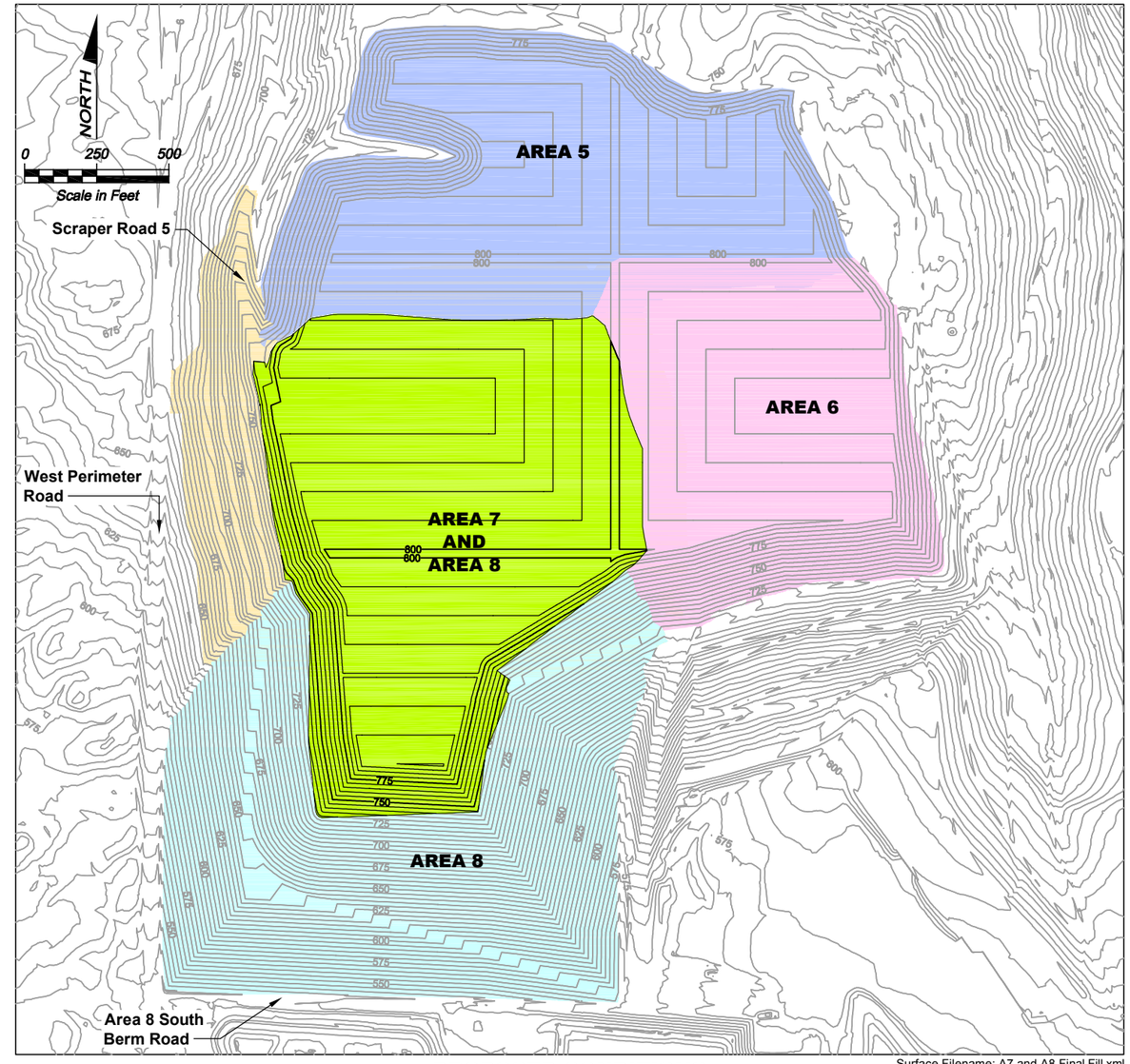


Surface Filename: 5 EG A8ex A7 A8 A5 A6.xml

EXISTING CONDITIONS

THE EXISTING CONDITIONS SURFACE INCLUDES THE FOLLOWING ELEMENTS:

- FALL 2016 AERIAL, FLOWN SEPTEMBER 14, 2016
- AREA 8 PROPOSED EXCAVATION
- AREA 7 PROPOSED INTERIM FILL
- AREA 8 PROPOSED INTERIM FILL
- AREA 5 PROPOSED FINAL FILL
- AREA 6 PROPOSED FINAL FILL



Surface Filename: A7 and A8 Final Fill.xml
5 EG FG.xml

PROPOSED CONDITIONS

AREA 7 AND 8 FILLING; TOP DECK TO A MAXIMUM ELEVATION OF 800 WITH FINAL COVER CONFIGURATION

VOLUME:

1,061,000 CY - SURFACE COMPARISON

ADJUSTMENTS:

- NONE

NET VOLUME*:

1,061,000 CY

*VOLUMES INCLUDE BOTH INTERIM AND FINAL COVER SYSTEMS

03-24-17

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King County
Department of Natural Resources & Parks
Solid Waste Division

Cedar Hills Regional Landfill
Area 7 and Area 8 Proposed Final Filling

Figure
5

Date
Mar 2017

Path: S:\Cad\King County\14-10343 Eng Report Filename: F14-10343_Fig_05 Plot date: Mar 24, 2017-02:14:01pm CAD User: gcastillo.
Xref Filename: | contour labels |

KING COUNTY SOLID WASTE DIVISION
CEDAR HILLS REGIONAL LANDFILL CAPACITY

Disposal Areas	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Total Capacity
Area Capacity (CY)	**3,244,000**	**7,842,000**	**1,923,000**	**1,367,000**	**1,081,000**	**15,457,000**
Area Capacity (tons) @ 1600 lbs/CY	**2,595,200**	**6,273,600**	**1,538,400**	**1,093,600**	**864,800**	**12,365,600**

Date	Monthly Tonnage	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Remaining Capacity (tons)
September 15-30, 2016	42,557	2,552,643	--	--	--	--	12,323,043
October, 2016	76,302	2,476,341	--	--	--	--	12,246,741
November, 2016	75,662	2,400,679	--	--	--	--	12,171,079
December, 2016	71,054	2,329,625	--	--	--	--	12,100,025
January, 2017	75,833	2,253,792	--	--	--	--	12,024,192
February, 2017	75,833	2,177,959	--	--	--	--	11,948,359
March, 2017	75,833	2,102,126	--	--	--	--	11,872,526
April, 2017	75,833	2,026,293	--	--	--	--	11,796,693
May, 2017	75,833	1,950,460	--	--	--	--	11,720,860
June, 2017	75,833	1,874,627	--	--	--	--	11,645,027
July, 2017	75,833	1,798,794	--	--	--	--	11,569,194
August, 2017	75,833	1,722,961	--	--	--	--	11,493,361
September, 2017	75,833	1,647,128	--	--	--	--	11,417,528
October, 2017	75,833	1,571,295	--	--	--	--	11,341,695
November, 2017	75,833	1,495,462	--	--	--	--	11,265,862
December, 2017	75,833	1,419,629	--	--	--	--	11,190,029
January, 2018	76,667	1,342,962	--	--	--	--	11,113,362
February, 2018	76,667	1,266,295	--	--	--	--	11,036,695
March, 2018	76,667	1,189,628	--	--	--	--	10,960,028
April, 2018	76,667	1,112,961	--	--	--	--	10,883,361
May, 2018	76,667	1,036,294	--	--	--	--	10,806,694
June, 2018	76,667	959,627	--	--	--	--	10,730,027
July, 2018	76,667	882,960	--	--	--	--	10,653,360
August, 2018	76,667	806,293	--	--	--	--	10,576,693
September, 2018	76,667	729,626	--	--	--	--	10,500,026
October, 2018	76,667	652,959	--	--	--	--	10,423,359
November, 2018	76,667	576,292	--	--	--	--	10,346,692

KING COUNTY SOLID WASTE DIVISION
CEDAR HILLS REGIONAL LANDFILL CAPACITY

Disposal Areas	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Total Capacity
Area Capacity (CY)	**3,244,000**	**7,842,000**	**1,923,000**	**1,367,000**	**1,081,000**	**15,457,000**
Area Capacity (tons) @ 1600 lbs/CY	**2,595,200**	**6,273,600**	**1,538,400**	**1,093,600**	**864,800**	**12,365,600**

Date	Monthly Tonnage	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Remaining Capacity (tons)
December, 2018	76,667	499,625	--	--	--	--	10,270,025
January, 2019	77,500	422,125	--	--	--	--	10,192,525
February, 2019	77,500	344,625	--	--	--	--	10,115,025
March, 2019	77,500	267,125	--	--	--	--	10,037,525
April, 2019	77,500	189,625	--	--	--	--	9,960,025
May, 2019	77,500	112,125	--	--	--	--	9,882,525
June, 2019	77,500	34,625	--	--	--	--	9,805,025
July, 2019	77,500	**(42,875)**	6,230,725	--	--	--	9,727,525
August, 2019	77,500	--	6,153,225	--	--	--	9,650,025
September, 2019	77,500	--	6,075,725	--	--	--	9,572,525
October, 2019	77,500	--	5,998,225	--	--	--	9,495,025
November, 2019	77,500	--	5,920,725	--	--	--	9,417,525
December, 2019	77,500	--	5,843,225	--	--	--	9,340,025
January, 2020	78,527	--	5,764,698	--	--	--	9,261,498
February, 2020	78,527	--	5,686,171	--	--	--	9,182,971
March, 2020	78,527	--	5,607,644	--	--	--	9,104,444
April, 2020	78,527	--	5,529,117	--	--	--	9,025,917
May, 2020	78,527	--	5,450,590	--	--	--	8,947,390
June, 2020	78,527	--	5,372,063	--	--	--	8,868,863
July, 2020	78,527	--	5,293,536	--	--	--	8,790,336
August, 2020	78,527	--	5,215,009	--	--	--	8,711,809
September, 2020	78,527	--	5,136,482	--	--	--	8,633,282
October, 2020	78,527	--	5,057,955	--	--	--	8,554,755
November, 2020	78,527	--	4,979,428	--	--	--	8,476,228
December, 2020	78,527	--	4,900,901	--	--	--	8,397,701
January, 2021	81,256	--	4,819,645	--	--	--	8,316,445
February, 2021	81,256	--	4,738,389	--	--	--	8,235,189

KING COUNTY SOLID WASTE DIVISION
CEDAR HILLS REGIONAL LANDFILL CAPACITY

Disposal Areas	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Total Capacity
Area Capacity (CY)	**3,244,000**	**7,842,000**	**1,923,000**	**1,367,000**	**1,081,000**	**15,457,000**
Area Capacity (tons) @ 1600 lbs/CY	**2,595,200**	**6,273,600**	**1,538,400**	**1,093,600**	**864,800**	**12,365,600**

Date	Monthly Tonnage	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Remaining Capacity (tons)
March, 2021	81,256	--	4,657,133	--	--	--	8,153,933
April, 2021	81,256	--	4,575,877	--	--	--	8,072,677
May, 2021	81,256	--	4,494,621	--	--	--	7,991,421
June, 2021	81,256	--	4,413,365	--	--	--	7,910,165
July, 2021	81,256	--	4,332,109	--	--	--	7,828,909
August, 2021	81,256	--	4,250,853	--	--	--	7,747,653
September, 2021	81,256	--	4,169,597	--	--	--	7,666,397
October, 2021	81,256	--	4,088,341	--	--	--	7,585,141
November, 2021	81,256	--	4,007,085	--	--	--	7,503,885
December, 2021	81,256	--	3,925,829	--	--	--	7,422,629
January, 2022	84,094	--	3,841,735	--	--	--	7,338,535
February, 2022	84,094	--	3,757,642	--	--	--	7,254,442
March, 2022	84,094	--	3,673,548	--	--	--	7,170,348
April, 2022	84,094	--	3,589,454	--	--	--	7,086,254
May, 2022	84,094	--	3,505,360	--	--	--	7,002,160
June, 2022	84,094	--	3,421,267	--	--	--	6,918,067
July, 2022	84,094	--	3,337,173	--	--	--	6,833,973
August, 2022	84,094	--	3,253,079	--	--	--	6,749,879
September, 2022	84,094	--	3,168,985	--	--	--	6,665,785
October, 2022	84,094	--	3,084,892	--	--	--	6,581,692
November, 2022	84,094	--	3,000,798	--	--	--	6,497,598
December, 2022	84,094	--	2,916,704	--	--	--	6,413,504
January, 2023	86,606	--	2,830,098	--	--	--	6,326,898
February, 2023	86,606	--	2,743,493	--	--	--	6,240,293
March, 2023	86,606	--	2,656,887	--	--	--	6,153,687
April, 2023	86,606	--	2,570,281	--	--	--	6,067,081
May, 2023	86,606	--	2,483,675	--	--	--	5,980,475

KING COUNTY SOLID WASTE DIVISION
CEDAR HILLS REGIONAL LANDFILL CAPACITY

Disposal Areas	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Total Capacity
Area Capacity (CY)	**3,244,000**	**7,842,000**	**1,923,000**	**1,367,000**	**1,081,000**	**15,457,000**
Area Capacity (tons) @ 1600 lbs/CY	**2,595,200**	**6,273,600**	**1,538,400**	**1,093,600**	**864,800**	**12,365,600**

Date	Monthly Tonnage	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Remaining Capacity (tons)
June, 2023	86,606	--	2,397,070	--	--	--	5,893,870
July, 2023	86,606	--	2,310,464	--	--	--	5,807,264
August, 2023	86,606	--	2,223,858	--	--	--	5,720,658
September, 2023	86,606	--	2,137,252	--	--	--	5,634,052
October, 2023	86,606	--	2,050,647	--	--	--	5,547,447
November, 2023	86,606	--	1,964,041	--	--	--	5,460,841
December, 2023	86,606	--	1,877,435	--	--	--	5,374,235
January, 2024	89,053	--	1,788,382	--	--	--	5,285,182
February, 2024	89,053	--	1,699,330	--	--	--	5,196,130
March, 2024	89,053	--	1,610,277	--	--	--	5,107,077
April, 2024	89,053	--	1,521,224	--	--	--	5,018,024
May, 2024	89,053	--	1,432,172	--	--	--	4,928,972
June, 2024	89,053	--	1,343,119	--	--	--	4,839,919
July, 2024	89,053	--	1,254,067	--	--	--	4,750,867
August, 2024	89,053	--	1,165,014	--	--	--	4,661,814
September, 2024	89,053	--	1,075,961	--	--	--	4,572,761
October, 2024	89,053	--	986,909	--	--	--	4,483,709
November, 2024	89,053	--	897,856	--	--	--	4,394,656
December, 2024	89,053	--	808,803	--	--	--	4,305,603
January, 2025	91,267	--	717,536	--	--	--	4,214,336
February, 2025	91,267	--	626,270	--	--	--	4,123,070
March, 2025	91,267	--	535,003	--	--	--	4,031,803
April, 2025	91,267	--	443,736	--	--	--	3,940,536
May, 2025	91,267	--	352,469	--	--	--	3,849,269
June, 2025	91,267	--	261,202	--	--	--	3,758,002
July, 2025	91,267	--	169,935	--	--	--	3,666,735
August, 2025	91,267	--	78,668	--	--	--	3,575,468

KING COUNTY SOLID WASTE DIVISION
CEDAR HILLS REGIONAL LANDFILL CAPACITY

Disposal Areas	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Total Capacity
Area Capacity (CY)	**3,244,000**	**7,842,000**	**1,923,000**	**1,367,000**	**1,081,000**	**15,457,000**
Area Capacity (tons) @ 1600 lbs/CY	**2,595,200**	**6,273,600**	**1,538,400**	**1,093,600**	**864,800**	**12,365,600**

Date	Monthly Tonnage	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Remaining Capacity (tons)
September, 2025	91,267	--	**(12,599)**	1,525,801	--	--	3,484,201
October, 2025	91,267	--	--	1,434,534	--	--	3,392,934
November, 2025	91,267	--	--	1,343,268	--	--	3,301,668
December, 2025	91,267	--	--	1,252,001	--	--	3,210,401
January, 2026	93,073	--	--	1,158,928	--	--	3,117,328
February, 2026	93,073	--	--	1,065,855	--	--	3,024,255
March, 2026	93,073	--	--	972,782	--	--	2,931,182
April, 2026	93,073	--	--	879,709	--	--	2,838,109
May, 2026	93,073	--	--	786,636	--	--	2,745,036
June, 2026	93,073	--	--	693,563	--	--	2,651,963
July, 2026	93,073	--	--	600,490	--	--	2,558,890
August, 2026	93,073	--	--	507,417	--	--	2,465,817
September, 2026	93,073	--	--	414,344	--	--	2,372,744
October, 2026	93,073	--	--	321,272	--	--	2,279,672
November, 2026	93,073	--	--	228,199	--	--	2,186,599
December, 2026	93,073	--	--	135,126	--	--	2,093,526
January, 2027	94,918	--	--	40,208	--	--	1,998,608
February, 2027	94,918	--	--	**(54,710)**	1,038,890	--	1,903,690
March, 2027	94,918	--	--	--	943,972	--	1,808,772
April, 2027	94,918	--	--	--	849,054	--	1,713,854
May, 2027	94,918	--	--	--	754,136	--	1,618,936
June, 2027	94,918	--	--	--	659,219	--	1,524,019
July, 2027	94,918	--	--	--	564,301	--	1,429,101
August, 2027	94,918	--	--	--	469,383	--	1,334,183
September, 2027	94,918	--	--	--	374,465	--	1,239,265
October, 2027	94,918	--	--	--	279,547	--	1,144,347
November, 2027	94,918	--	--	--	184,629	--	1,049,429

KING COUNTY SOLID WASTE DIVISION
CEDAR HILLS REGIONAL LANDFILL CAPACITY

Disposal Areas	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Total Capacity
Area Capacity (CY)	**3,244,000**	**7,842,000**	**1,923,000**	**1,367,000**	**1,081,000**	**15,457,000**
Area Capacity (tons) @ 1600 lbs/CY	**2,595,200**	**6,273,600**	**1,538,400**	**1,093,600**	**864,800**	**12,365,600**

Date	Monthly Tonnage	Area 7	Area 8	Area 5	Area 6	Area 7/8 Topping Lift	Remaining Capacity (tons)
December, 2027	94,918	--	--	--	89,711	--	954,511
January, 2028	96,331	--	--	--	**(6,619)**	858,181	858,181
February, 2028	96,331	--	--	--	--	761,850	761,850
March, 2028	96,331	--	--	--	--	665,519	665,519
April, 2028	96,331	--	--	--	--	569,188	569,188
May, 2028	96,331	--	--	--	--	472,857	472,857
June, 2028	96,331	--	--	--	--	376,526	376,526
July, 2028	96,331	--	--	--	--	280,195	280,195
August, 2028	96,331	--	--	--	--	183,864	183,864
September, 2028	96,331	--	--	--	--	87,533	87,533
October, 2028	96,331	--	--	--	--	**(8,797)**	(8,797)