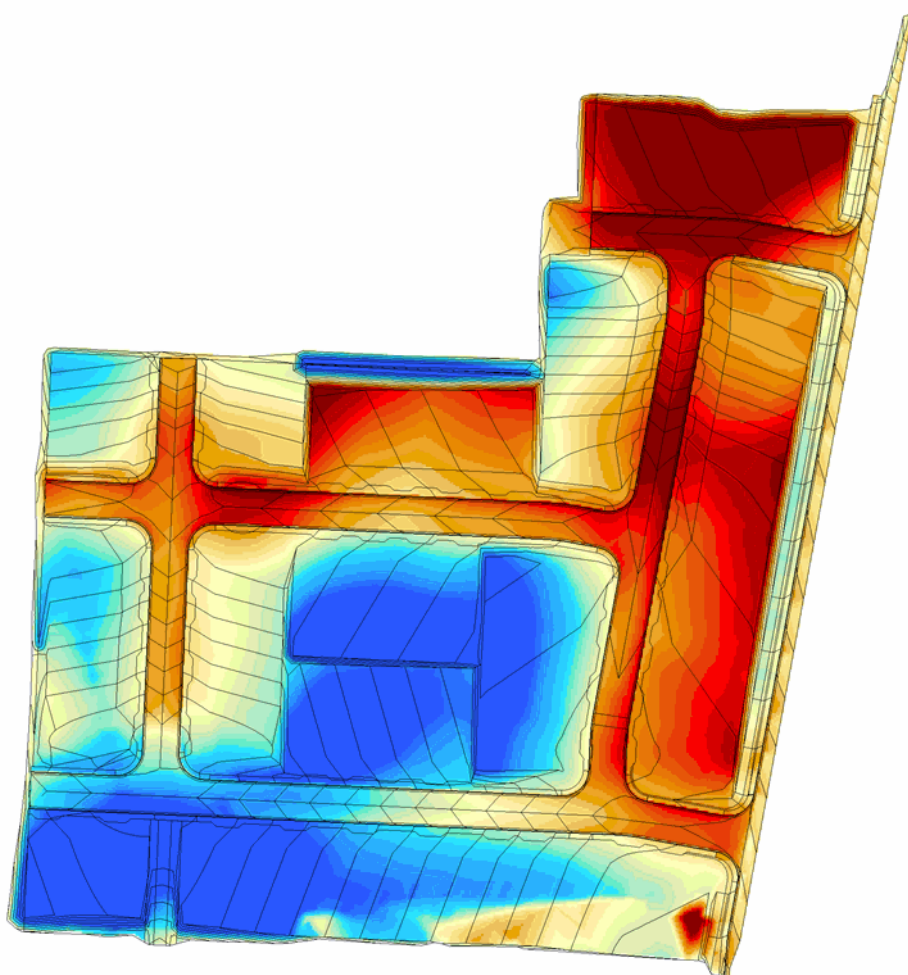


# DIRTLOGIC<sup>LLC</sup>



"Take the guesswork out of dirtwork"

## SUB-DIVISION - SAMPLE TAKE-OFF



### Balance Summary

#### Volumes:

Total Cut	18,722.00 CY
Total Fill	22,212.00 CY
Import	3,490.00 CY
Per 1/10 of a foot change	1,765.00 CY

### Prepared By

**DirtLogic, LLC.**  
**T: 1.877.775.6442**  
**E: Plans@DirtLogic.com**  
**www.DirtLogic.com**



## QUANTITY SUMMARY

### Site Summary

#### Area:

Total SF	475,089.00 SF
Cut SF	237,812.00 SF
Fill SF	223,189.00 SF
On Grade SF	14,088.00 SF
Stripping Region SF	475,888.00 SF

### \*\* Balance Summary

#### Volumes:

Total Cut	18,722.00 CY
Total Fill	22,212.00 CY
Import	3,490.00 CY
Per 1/10 of a foot change	1,765.00 CY

### Existing Site Preparation: Clearing, Stripping, Demolition

#### Volume:

6" Strip @	6" Depth	8,813.00 CY
Total Strip =		8,813.00 CY

### Notes

All Paving Sections are figured to back of Curb

The Scale that this plan was scaled at was Electronic

Strippings- Assumed Areas as per plan

Anyone using this report should verify all Sectional Depths & Assumptions

\* Stripping Quantities are not included in the Total Cut Volumes above  
and should be treated as separate quantities

\*\* No compaction factor, shrink or swell conversions were taken into  
account in these calculations

### Exclusions

Footing Excavation

Trench Spoils



## MATERIAL AREAS

Material Areas	Depth	Sh#	Slope Areas	Volume to Subgrade	
				Cut	Fill
Contractor SW	6.0 "		Section 3,219 SF	132 CY	67 CY
Gravel Shoulder	11.0 "		Section 2,171 SF	0 CY	320 CY
Homeowner SW/DW	0.0 "		Section 24,554 SF	786 CY	682 CY
Landscape	6.0 "		Section 17,415 SF	464 CY	617 CY
Lots	0.0 "		Section 330,382 SF	11,128 CY	19,048 CY
Offsite - AC	16.0 "		Section 10,923 SF	263 CY	1 CY
Onsite - AC	13.0 "		Section 85,706 SF	5,929 CY	1,254 CY
Public Access	11.0 "		Section 1,413 SF	0 CY	200 CY
Public Sidewalk	6.0 "		Section 3,378 SF	20 CY	23 CY

**Job: Sub-Division Take-off**  
**Units: Ft-CY**  
**Tue Jul 28, 2020 12:52:53 Page 1**

**Volume Report**  
**Subgrade vs. Stripped**

	Area				Volume		Comp/Ratio		Compact		Export	Change
	Total	Cut	Fill	OnGrade	Cut	Fill	Cut	Fill	Cut	Fill	-Import	Per .1 Ft
Contractor SW	172	165	3	4	2	0	1.00	1.00	2	0	2	1
Contractor SW	157	157	0	0	9	0	1.00	1.00	9	0	9	1
Contractor SW	173	173	0	0	6	0	1.00	1.00	6	0	6	1
Contractor SW	172	172	0	0	14	0	1.00	1.00	14	0	14	1
Contractor SW	172	172	0	0	12	0	1.00	1.00	12	0	12	1
Contractor SW	179	179	0	0	16	0	1.00	1.00	16	0	16	1
Contractor SW	198	137	43	18	2	0	1.00	1.00	2	0	2	1
Contractor SW	174	169	0	5	8	0	1.00	1.00	8	0	8	1
Contractor SW	172	172	0	0	13	0	1.00	1.00	13	0	13	1
Contractor SW	172	172	0	0	9	0	1.00	1.00	9	0	9	1
Contractor SW	172	171	0	1	5	0	1.00	1.00	5	0	5	1
Contractor SW	173	173	0	0	9	0	1.00	1.00	9	0	9	1
Contractor SW	172	0	172	0	0	14	1.00	1.00	0	14	-14	1
Contractor SW	198	0	198	0	0	15	1.00	1.00	0	15	-15	1
Contractor SW	173	164	1	8	5	0	1.00	1.00	5	0	5	1
Contractor SW	171	170	0	1	7	0	1.00	1.00	7	0	7	1
Contractor SW	113	53	3	57	0	0	1.00	1.00	0	0	0	0
Contractor SW	197	0	197	0	0	38	1.00	1.00	0	38	-38	1
Contractor SW	99	99	0	0	15	0	1.00	1.00	15	0	15	0
Contractor Sub:	3,209	2,498	617	94	132	67			132	67	65	17
Gravel Shoulder	964	0	964	0	0	153	1.00	1.00	0	153	-153	4
Gravel Shoulder	1,158	0	1,155	3	0	167	1.00	1.00	0	167	-167	4
Gravel Sub:	2,122	0	2,119	3	0	320			0	320	-320	8
Homeowner SW/DW	1,336	134	767	435	1	8	1.00	1.00	1	8	-7	5
Homeowner SW/DW	2,204	783	1,277	144	24	31	1.00	1.00	24	31	-7	8
Homeowner SW/DW	1,362	1,062	268	32	18	8	1.00	1.00	18	8	10	5
Homeowner SW/DW	392	0	392	0	0	38	1.00	1.00	0	38	-38	1
Homeowner SW/DW	1,362	4	1,021	337	0	20	1.00	1.00	0	20	-20	5
Homeowner SW/DW	391	35	268	88	0	4	1.00	1.00	0	4	-4	1
Homeowner SW/DW	390	390	0	0	16	0	1.00	1.00	16	0	16	1
Homeowner SW/DW	683	440	177	66	11	2	1.00	1.00	11	2	9	3
Homeowner SW/DW	682	664	0	18	21	0	1.00	1.00	21	0	21	3
Homeowner SW/DW	2,342	2,342	0	0	126	0	1.00	1.00	126	0	126	9
Homeowner SW/DW	1,411	1,411	0	0	87	0	1.00	1.00	87	0	87	5
Homeowner SW/DW	252	252	0	0	14	0	1.00	1.00	14	0	14	1
Homeowner SW/DW	396	396	0	0	47	0	1.00	1.00	47	0	47	1
Homeowner SW/DW	1,043	1,043	0	0	120	0	1.00	1.00	120	0	120	4
Homeowner SW/DW	408	408	0	0	15	0	1.00	1.00	15	0	15	2
Homeowner SW/DW	3,446	3,446	0	0	255	0	1.00	1.00	255	0	255	13
Homeowner SW/DW	379	379	0	0	19	0	1.00	1.00	19	0	19	1
Homeowner SW/DW	2,377	1	2,376	0	0	225	1.00	1.00	0	225	-225	9
Homeowner SW/DW	787	0	787	0	0	142	1.00	1.00	0	142	-142	3
Homeowner SW/DW	798	607	91	100	12	1	1.00	1.00	12	1	11	3

Homeowner SW/DW	2,071	1	2,068	2	0	203	1.00	1.00	0	203	-203	8
Homeowner Sub:	24,512	13,798	9,492	1,222	786	682			786	682	104	91
Landscape	17,025	6,671	8,698	1,656	464	617	1.00	1.00	464	617	-153	63
Lots	58,925	43,084	12,930	2,911	2,408	715	1.00	1.00	2,408	715	1,693	218
Lots	86,886	5,151	78,714	3,021	97	8,882	1.00	1.00	97	8,882	-8,785	322
Lots	12,577	0	12,577	0	0	2,999	1.00	1.00	0	2,999	-2,999	47
Lots	54,042	7,390	44,769	1,883	249	4,912	1.00	1.00	249	4,912	-4,663	200
Lots	56,570	52,344	3,819	407	4,495	106	1.00	1.00	4,495	106	4,389	210
Lots	26,023	25,236	262	525	3,829	3	1.00	1.00	3,829	3	3,826	96
Lots	21,970	75	21,662	233	1	1,052	1.00	1.00	1	1,052	-1,051	81
Lots	10,969	2,078	8,388	503	49	379	1.00	1.00	49	379	-330	41
Lots Sub:	327,962	135,358	183,121	9,483	11,128	19,048			11,128	19,048	-7,920	1,215
Offsite - AC	10,767	10,494	53	220	263	1	1.00	1.00	263	1	262	40
Onsite - AC	369	369	0	0	31	0	1.00	1.00	31	0	31	1
Onsite - AC	84,339	67,479	15,899	961	5,898	1,254	1.00	1.00	5,898	1,254	4,644	312
Onsite Sub:	84,708	67,848	15,899	961	5,929	1,254			5,929	1,254	4,675	313
Public Access	1,410	0	1,410	0	0	200	1.00	1.00	0	200	-200	5
Public Sidewalk	545	286	96	163	3	1	1.00	1.00	3	1	2	2
Public Sidewalk	2,382	452	1,675	255	11	22	1.00	1.00	11	22	-11	9
Public Sidewalk	447	407	9	31	6	0	1.00	1.00	6	0	6	2
Public Sub:	4,784	1,145	3,190	449	20	223			20	223	-203	18
Regions Total	475,089	237,812	223,189	14,088	18,722	22,212			18,722	22,212	-3,490	1,765

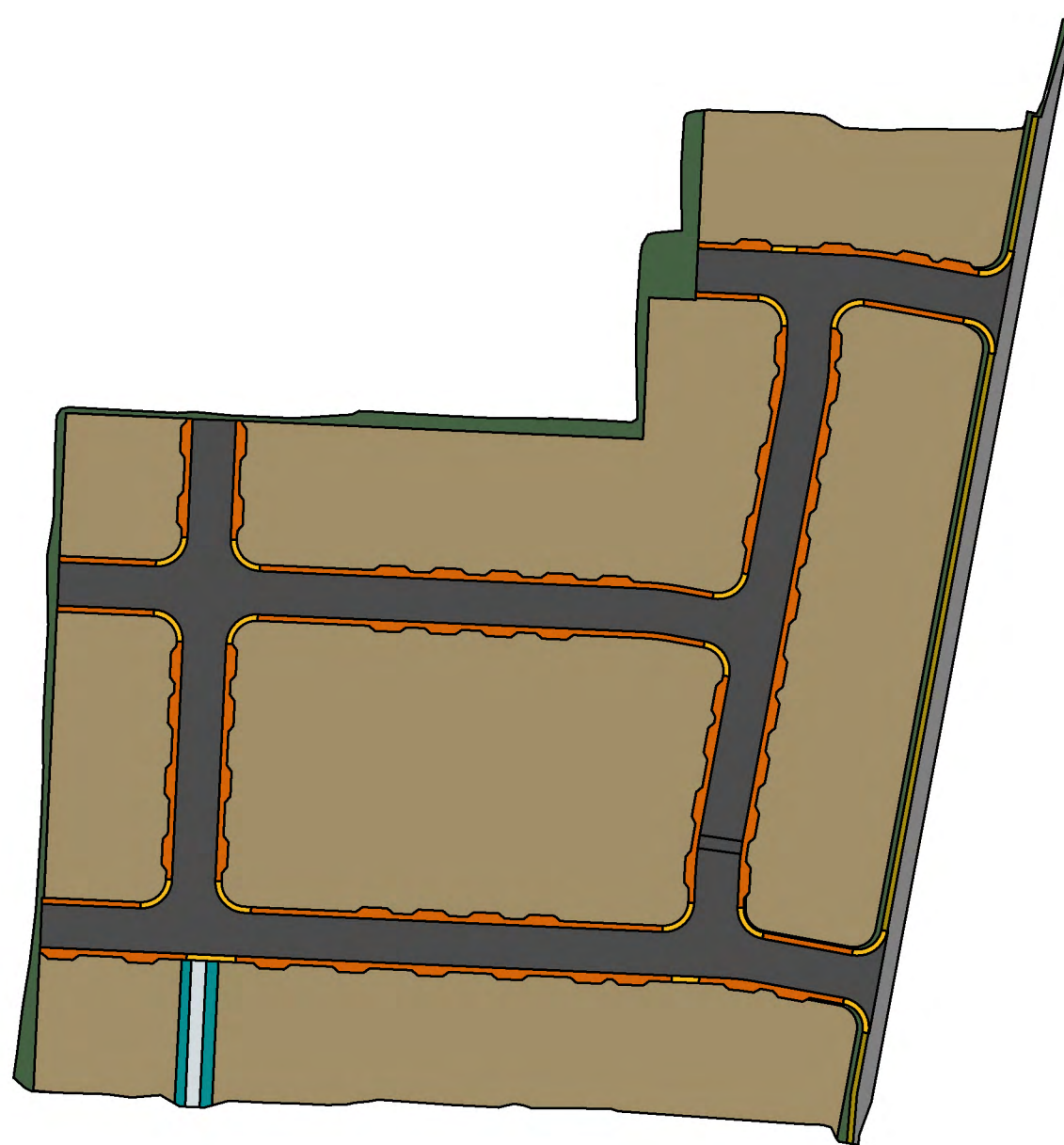
Stripping Qtys	Plane Area	Slope Area	Depth	Volume
6" Strip	475,088	475,888	0.500	8,813

Sectional Qtys	Plane Area	Slope Area	Depth	Volume
Contractor SW	172	172	0.500	3
Contractor SW	157	157	0.500	3
Contractor SW	173	174	0.500	3
Contractor SW	172	172	0.500	3
Contractor SW	172	173	0.500	3
Contractor SW	179	180	0.500	3
Contractor SW	198	198	0.500	4
Contractor SW	174	175	0.500	3
Contractor SW	172	173	0.500	3
Contractor SW	172	173	0.500	3
Contractor SW	172	172	0.500	3
Contractor SW	173	173	0.500	3
Contractor SW	172	172	0.500	3
Contractor SW	198	200	0.500	4
Contractor SW	173	173	0.500	3
Contractor SW	171	172	0.500	3
Contractor SW	113	113	0.500	2
Contractor SW	197	198	0.500	4
Contractor SW	99	99	0.500	2

Contractor Sub:	3,209	3,219		58
Gravel Shoulder	964	983	0.917	33
Gravel Shoulder	1,158	1,188	0.917	40
Gravel Sub:	2,122	2,171		73
Homeowner SW/DW	1,336	1,347	0.000	0
Homeowner SW/DW	2,204	2,208	0.000	0
Homeowner SW/DW	1,362	1,364	0.000	0
Homeowner SW/DW	392	393	0.000	0
Homeowner SW/DW	1,362	1,364	0.000	0
Homeowner SW/DW	391	392	0.000	0
Homeowner SW/DW	390	391	0.000	0
Homeowner SW/DW	683	687	0.000	0
Homeowner SW/DW	682	683	0.000	0
Homeowner SW/DW	2,342	2,344	0.000	0
Homeowner SW/DW	1,410	1,413	0.000	0
Homeowner SW/DW	252	253	0.000	0
Homeowner SW/DW	396	396	0.000	0
Homeowner SW/DW	1,043	1,044	0.000	0
Homeowner SW/DW	408	408	0.000	0
Homeowner SW/DW	3,446	3,450	0.000	0
Homeowner SW/DW	379	379	0.000	0
Homeowner SW/DW	2,377	2,379	0.000	0
Homeowner SW/DW	787	788	0.000	0
Homeowner SW/DW	798	798	0.000	0
Homeowner SW/DW	2,071	2,073	0.000	0
Homeowner Sub:	24,511	24,554		0
Landscape	17,025	17,415	0.500	323
Lots	58,925	59,682	0.000	0
Lots	86,886	87,253	0.000	0
Lots	12,577	12,748	0.000	0
Lots	54,042	54,277	0.000	0
Lots	56,570	56,985	0.000	0
Lots	26,023	26,432	0.000	0
Lots	21,970	22,006	0.000	0
Lots	10,969	10,999	0.000	0
Lots Sub:	327,962	330,382		0
Offsite - AC	10,767	10,923	1.333	539
Onsite - AC	84,339	85,333	1.083	3,423
Onsite - AC	369	373	1.083	15
Onsite Sub:	84,708	85,706		3,438
Public Access	1,410	1,413	0.917	48
Public Sidewalk	2,382	2,385	0.500	44
Public Sidewalk	447	447	0.500	8
Public Sidewalk	545	546	0.500	10
Public Sub:	4,784	4,791		110

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Sectional Total	475,088	479,161	4,541
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**Material Areas**

-  Contractor SW
-  Gravel Shoulder
-  Homeowner SW/DW
-  Landscape
-  Lots
-  Offsite - AC
-  Onsite - AC
-  Public Access
-  Public Sidewalk

[ NOT TO SCALE ]

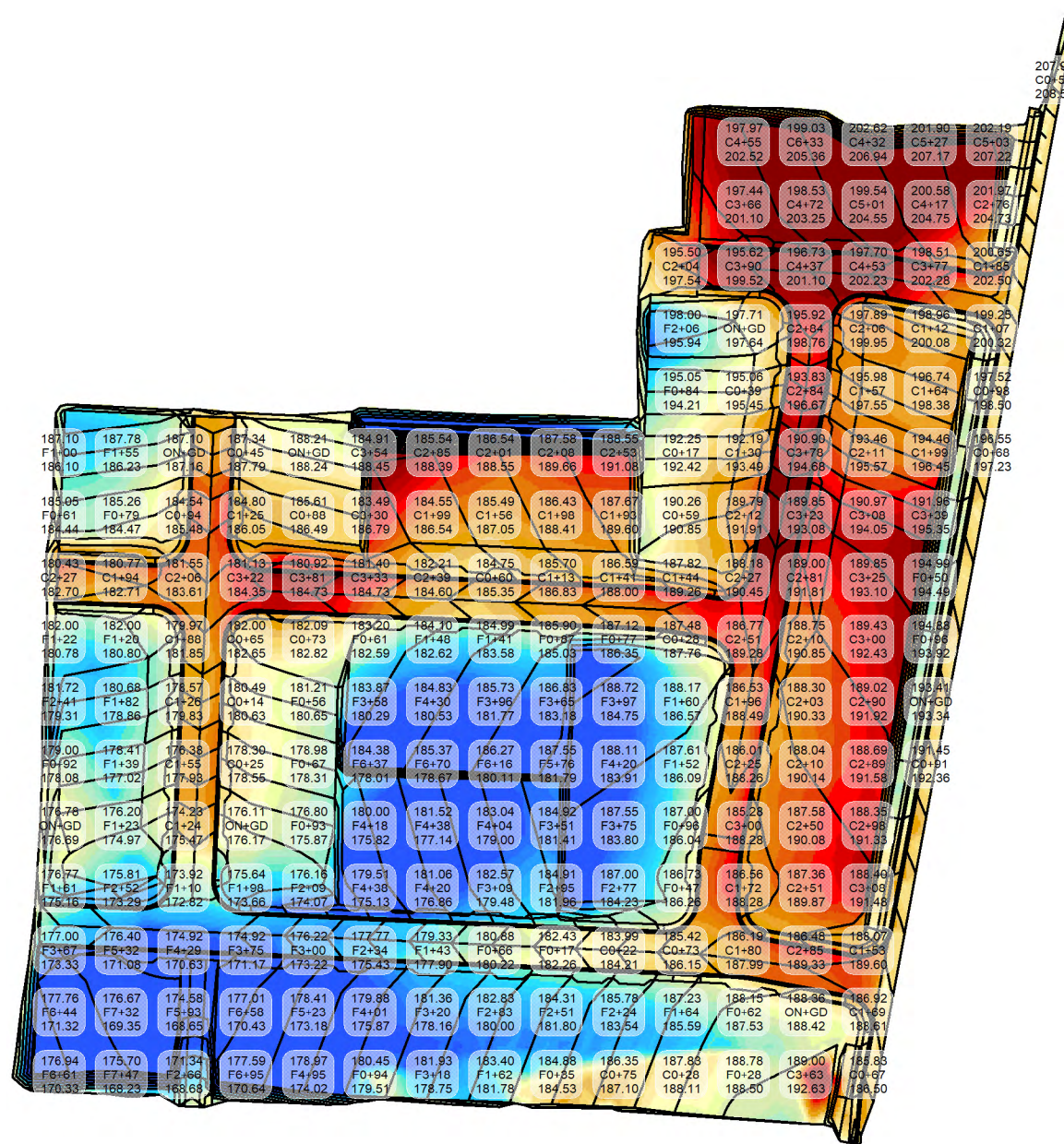
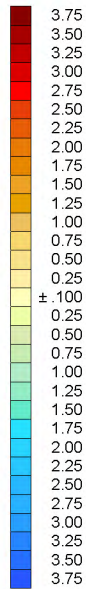
**DIRTLOGIC** LLC

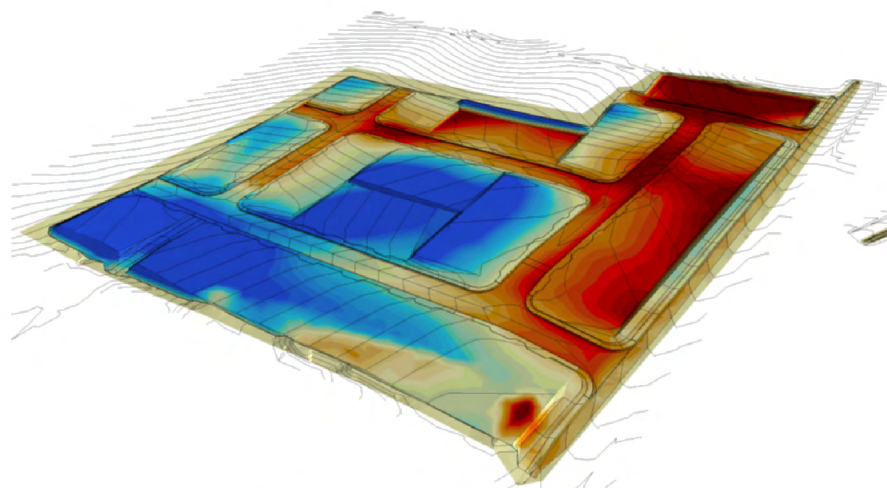
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DIRTLOGIC, LLC.  
1-877-775-6442  
[PLANS@DIRTLOGIC.COM](mailto:PLANS@DIRTLOGIC.COM)

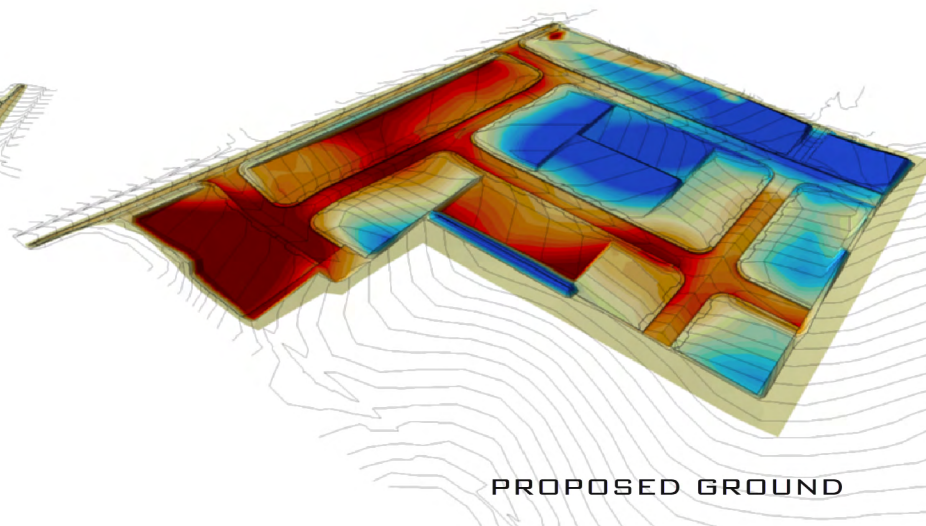
DirtLogic - Subdivision - Sample Takeoff  
**SECTIONAL AREA LAYOUT**



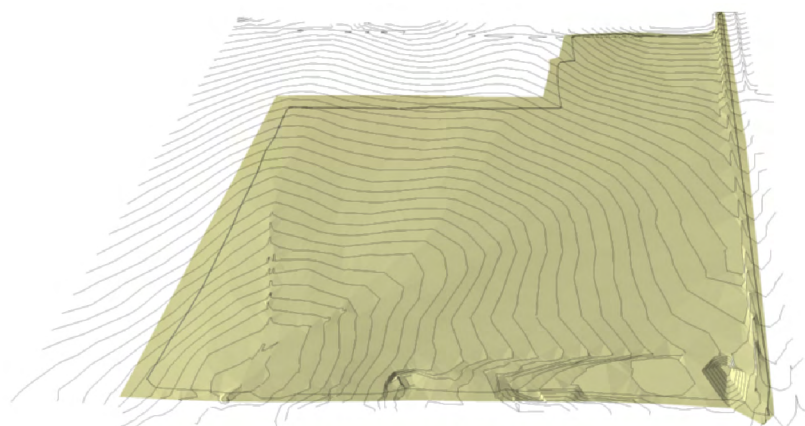




PROPOSED GROUND



PROPOSED GROUND



EXISTING GROUND

[ NOT TO SCALE ]

**DIRTLOGIC** LLC

"Take the guesswork out of dirtwork"

DIRTLOGIC, LLC.  
1-877-775-6442  
[PLANS@DIRTLOGIC.COM](mailto:PLANS@DIRTLOGIC.COM)

DirtLogic - Subdivision - Sample Takeoff  
**3D VIEWS**



## Q.C. CHECKLIST

Here is a series of checks we have run that you can also use.

### Title Page:

- ☐ Project name is correct and descriptive
- ☐ Spelling of Project name is correct
- ☐ Date is correct

### Summary:

- ☐ Project name matches name on Title Page
- ☐ Quantities in the Site Summary, Site Strippings and Balance Summary compare to the Job Total on the Volume Report
- ☐ Stripping depths are correct and Named appropriately
- ☐ Additional Notes are correctly documented

### Material Areas (Summary page 2):

- ☐ Naming Scheme complies to [DirtLogic Standards](#)
- ☐ Sectional Depths are correct and the Section Breakout equates to total Sectional Depth listed
- ☐ Material Types are correctly listed along the Section Breakout
- ☐ Slope Areas and Volumes compare to the Volume Report
- ☐ All Exclusions and Notes are listed correctly (if any)

### Volume Report:

- ☐ Surface Comparison is correct for this particular project's needs
- ☐ Project Name matches name on Title Page
- ☐ Units are correct
- ☐ Date is correct
- ☐ No Negatives or 0's are found throughout entire Volume Report where they shouldn't be
- ☐ Regions Total S.F. should be relatively close in comparison to the Sections Total S.F.
- ☐ Naming Scheme complies to [DirtLogic Standards](#)
- ☐ Sectional Depths are consistent throughout

### Sectional Area Layout:

- ☐ Legend Hatch Type compares to AreaHatch Types
- ☐ Scale and North Arrow are correct
- ☐ Project name matches name on Title Page

### Cut/Fill Grid Map/3D Views:

- ☐ Layout complies to [DirtLogic Standards](#)
- ☐ Project Name matches name on Title Page
- ☐ Building Pad/s is flat across entire area
- ☐ No unusual Cut/Fill Depths are shown

### Electronic Files:

- ☐ Compare Agtek files, AutoCAD Files and Plan Sheets for discrepancies
- ☐ Terrain Modeling is clean and complete in Design and Existing Surface (Walls, Pads, Curbs, etc.)
- ☐ Project Daylights at Perimeter where it is supposed to
- ☐ No Over-Lapping Regions (Alt+F)
- ☐ **"Follow Up"**

Technician:

Initial: XXXXXX

Date: XXXXXX



## DirtLogic Breakdown Report : Help Guide

A

B

C

D

E

F

G

H

I

J

K

L

Volume Report  
Subgrade vs. Stripped

	Total	Area Cut	Fill	OnGrade	Volume Cut	Fill	Comp/Ratio Cut	Fill	Compact Cut	Fill	Export -Import	Change Per .1 Ft
Building Pad	2,946	2,946	0	0	990	0	1.00	1.00	990	0	990	11
Drive Entrance	874	872	0	2	161	0	1.00	1.00	161	0	161	3
Garage Pad	3,265	3,265	0	0	1,371	0	1.00	1.00	1,371	0	1,371	12
Planter	141	141	0	0	19	0	1.00	1.00	19	0	19	1
Sidewalk	186	117	44	25	3	0	1.00	1.00	3	0	3	1
Sidewalk	2,883	2,583	200	100	234	4	1.00	1.00	234	4	230	11
Sidewalk Sub:	3,069	2,700	244	125	237	4			237	4	233	12
Regions Total	10,295	9,924	244	127	2,778	4			2,778	4	2,774	39
Unspecified	9,258	7,003	1,764	491	567	39	1.00	1.00	567	39	528	34
Job Total	19,553	16,927	2,008	618	3,345	43			3,345	43	3,302	73

Stripping Qtys	Plane Area	Slope Area	Depth	Volume
6in Strip	19,546	20,117	0.500	373

Sectional Qtys	Plane Area	Slope Area	Depth	Volume
Building Pad	2,946	2,947	1.000	109

## What is a Breakdown Report?

A breakdown report is a report of the total compilation of all the information that has been imputed into the our earthwork-engineering programs.

- A. This is the total square foot area of the regions. (Regions are individual features i.e. Roads, Sidewalks, Buildings, etc. these are used to quantify areas and to find sub-grade)
- B. This shows how much of that region's total square foot area is in a cut and how much is in a fill.
- C. This identifies the cubic yardage of cut/fill that lies within those regions.
- D. This is the fill ratio that can be added to the fill quantity upon request for figuring dirt expansion.
- E. This is the total cubic yardage of export/import that lies within a specific region.
- F. This is the cubic yardage change per raising/lowering the regions or the entire site .1 ft. (useful for developing a balanced site)
- G. This is the Subtotal of all the regions combined.
- H. The unspecified is all the area that does not lie within a specified region, but is still part of the job.
- I. This is the subtotal of the regions and the unspecified combined. It is the overall quantities for the entire job.
- J. This includes the name, depth, area, and cubic yardage of site strippings.
- K. This is the breakdown of the regions, which gives the thickness of the section to sub-grade, the area of the region, and the volume of material that lies within that region.
- L. This is the actual area, taking into account slopes.



*"Take the **guesswork** out of **dirtwork**!"*

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## Disclaimer

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- **DirtLogic (DL) take-offs are created as per the grading plans during estimating phase of this project. If a Geotech report is available DL will use it to verify Clear and Grubbing depths.**
- DirtLogic runs it's take-offs to the **bottom of rock, not the bottom of structural fill unless otherwise noted in this report.**
- **Please note** that variations in graphical representations may have been employed to promote clarity of the plans. Variations may include the size, location, orientation or omission of various plan entities. Anyone using this information should verify conformance to the approved plans, details, specifications and any subsequent revisions thereto. The user accepts all responsibility for the use and/or propagation of this information.
- **Lengths, Counts, Areas and Depths herein**, are taken from Engineer produced drawings and are not produced in our office or by our employees. However, we do our best to search out any errors that might occur but don't guarantee that there aren't any. We note any assumptions that might be made by us due to lack of information provided. The information DL provides in these reports is only as good as the information DL is provided with. DL is not responsible for changes made during construction that differ from plans used during the estimating phase of this project unless otherwise noted in this report.
- **Quality Assurance** measures are taken very seriously here using Proprietary software developed by DirtLogic, LLC. and are only proven to work within our defined scope of work; **being within the limits of grading only.** Takeoff software cannot calculate anything outside of that defined scope, so we can't insure that any quantities given outside of that scope will be correct and accounted for. Any quantities that might be included outside of our scope are given as a convenience, and should be verified before use as we don't always have all project specifications and are limited to what has been supplied to us by the client or Engineer.
- The **CUSTOMER** is advised to check all electronic media for computer viruses before loading the files. The customer is fully responsible for intercepting and disabling viruses, if any, that may be inadvertently transmitted with the electronic files and hereby agrees to indemnify and hold DirtLogic, LLC. Harmless from and against all claims of any type or nature asserted by customer or any party as a result of viruses inadvertently transmitted with the electronic files.

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