

Hamilton Commons
plan dated 10/12/2017

Takeoff by:	M. Finken
Summary by:	R. Decker
Checked by:	R. Decker
Date:	2/2/2018

Abbreviations: BCY = bank cubic yards (or Raw Volumes) SF = square feet LCY = loose cubic yards (swell factor) B.O.C. = bottom of concrete CCY = compacted cubic yards (#,###) = negative number SG = subgrade AS = as shown	Earth_Swell	1.250
	Rock_Swell	1.600
	(Compaction & Swell Assumptions)	
	BCY%	87.50% Existing
	LCY%	70.00% Swelled

See Note 2

Earthwork File: 7506 Hamilton Commons (Sect A1-A3) (See Note 1)													VOLUMES ADJUSTED FOR SWELL & COMPACTION ASSUMPTIONS						Approx. Grade Adjust to Balance
DISTURBANCE AREA & STRIPPING							RAW CUT & FILL VOLUMES						Earth	Rock	Proposed	LOOSE CUBIC YARDS			
Subgrade	Surface Area	Total	Area	6" Strip	Cut Earth	Cut Rock	Total Cut	Fill	Balance	Swell	Swell	Compaction	Cut	Fill	Balance				
SF	SF	SF	Acres	BCY	BCY	BCY	BCY	BCY	BCY	1.250	1.600	Percent	LCY	LCY Required	LCY				
ALL AREAS																			
Building Area with 4' clearance and 2H:1V slopes where possible and variable other areas, including shoring along street	elev. 87.97'	28,620	28,620	0.66	530	6,153	3,822	9,975	0	9,975	7,691	6,115	95.00%	13,806	0	13,806	+ 13.02'		
adjust for overlap area		(28,620)	(28,620)	(0.66)	(530)	0	0	0	0	0	0	0	95.00%	0	0	0	+ 0.00'		
Landscape Areas	0.50'	10,329	10,329	0.24	191	6	0	6	1,180	(1,174)	8	0	90.00%	8	1,517	(1,509)	- 3.94'		
Pavement Areas	0.88'	43,057	43,057	0.99	797	73	0	73	2,265	(2,192)	91	0	95.00%	91	3,074	(2,983)	- 1.87'		
Concrete Pad Areas	1.00'	1,322	1,322	0.03	24	16	0	16	72	(56)	20	0	95.00%	20	98	(78)	- 1.59'		
Sidewalk Areas	0.67' & 1.08'	12,842	12,842	0.29	238	32	0	32	2,192	(2,160)	40	0	95.00%	40	2,975	(2,935)	- 6.17'		
Building Areas NOTE: Shoring may be required along entire east and partial south walls.	elev. 87.97'	25,644	25,644	0.59	475	2	0	2	706	(704)	3	0	95.00%	3	958	(955)	- 1.01'		
adjust for non topsoil strip		0	0	0.00	(527)	0	0	0	0	0	0	0	95.00%	0	0	0			
î.		0	0	0.00	0	0	0	0	0	0	0	0	95.00%	0	0	0			
TOTALS		93,194	0	93,194	2.14	1,198	6,282	3,822	10,104	6,415	3,689	7,853	6,115		13,968	8,622	5,346	+ 1.55'	
										Excess topsoil =	1,003						Excess topsoil swelled 25% =	1,254	
										Total Excess (Borrow) Material =	4,692						Total Excess (Borrow) Material =	6,600	+ 1.91'

NOTES:

1 TOPSOIL volumes are NOT included in the RAW and ADJUSTED cut & fill volumes. All earth volumes are calculated, after stripping and to proposed subgrade.

Redistribute Topsoil, 6" thick	1,170	SY
• Topsoil Required	6"	195 BCY
• Excess (Borrow) Topsoil	1,003	BCY

2 The last column shows the approximate finish grade adjustment required to achieve a balanced site.

3 Pavement areas above are not to be used for exact pavement areas -- e.g. islands are sometimes included within pavement earthwork areas.

This takeoff has been prepared by Walsh Estimating Service, a division of Maracorp International:
Although we have been careful to assure that all items are correct, we make no guarantee beyond the cost of our work. The contractor has the final responsibility for completeness and accuracy in the preparation of his bid.
By acceptance of this takeoff, the purchaser agrees to the following statement:
"I do hereby release and hold harmless Walsh Estimating Service, Maracorp International, Ed Walsh, and his employees from any and all errors and omissions beyond the invoiced value of services rendered."

JOB: 7506 Hamilton Commons SECTION: A1 Basement Excavation

#	Desc	Strip			
7	topsoil	.5			
	topsoil		Area =	12025 SqFt	Balance Change per Ft = 445 CY
			Material	Thickness Ft	Volume CY
			topsoil	.5	223.
Totals for Strip Area # 7					
			Area =	12025 SqFt	Balance Change per Ft = 445 CY
			Material		Volume CY
			topsoil		223

#	Desc	Strip			
8	pave and conc	.33			
	pave and conc		Area =	14454 SqFt	Balance Change per Ft = 535 CY
			Material	Thickness Ft	Volume CY
			pave and conc	.33	177.
Totals for Strip Area # 8					
			Area =	14454 SqFt	Balance Change per Ft = 535 CY
			Material		Volume CY
			pave and conc		177

#	Desc	Strip			
9	building	.33			
	building		Area =	1966 SqFt	Balance Change per Ft = 73 CY
			Material	Thickness Ft	Volume CY
			building	.33	24.
Totals for Strip Area # 9					
			Area =	1966 SqFt	Balance Change per Ft = 73 CY
			Material		Volume CY
			building		24

#	Desc	Strip			
10	topsoil	.5			
	topsoil		Area =	167 SqFt	Balance Change per Ft = 6 CY
			Material	Thickness Ft	Volume CY
			topsoil	.5	3.
Totals for Strip Area # 10					
			Area =	167 SqFt	Balance Change per Ft = 6 CY
			Material		Volume CY

Section Strip Area Report

JOB: 7506 Hamilton Commons SECTION: A1 Basement Excavation
topsoil 3

Desc

ALL Strip Areas

Area =	28612 SqFt	Balance Change per Ft =	1060 CY
Material	Volume CY		
topsoil	226		
pave and conc	177		
building	24		

Section Subgrade Report

JOB: 7506 Hamilton Commons SECTION: A1 Basement Excavation

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
4ft Slope 2H:1V			2 Bank	3523	2462	1061
			Compacted	3523	2462	1061

Totals for Subgrade # 1 Area = 13862 SqFt Balance Change per Ft = 513 CY

#	Desc	Elevation (Ft)	Fill (CY)	Cut (CY)	Common	Rock
12	B_Bsmnt	87.97	0 Bank	6452	3691	2761
			Compacted	6452	3691	2761

Totals for Subgrade # 12 Area = 14758 SqFt Balance Change per Ft = 547 CY

Desc	Fill (CY)	Cut (CY)	Common	Rock
ALL Subgrades	2 Bank	9975	6153	3822
	Compacted	9975	6153	3822

Area = 28620 SqFt Balance Change per Ft = 1060 CY

JOB: 7506 Hamilton Commons SECTION: A2 Sht 5 Final Grading 5 of

#	Desc	Strip			
1	topsoil	.5			
	topsoil		Area =	52412 SqFt	Balance Change per Ft = 1941 CY
			Material	Thickness Ft	Volume CY
	topsoil	.5			971.
Totals for Strip Area # 1					
			Area =	52412 SqFt	Balance Change per Ft = 1941 CY
			Material		Volume CY
	topsoil				971

#	Desc	Strip			
3	pave and conc	.33			
	pave and conc		Area =	11925 SqFt	Balance Change per Ft = 442 CY
			Material	Thickness Ft	Volume CY
	pave and conc	.33			146.
			Area =	72 SqFt	Balance Change per Ft = 3 CY
			Material	Thickness Ft	Volume CY
	pave and conc	.33			1.
			Area =	22 SqFt	Balance Change per Ft = 1 CY
			Material	Thickness Ft	Volume CY
	pave and conc	.33			.
Totals for Strip Area # 3					
			Area =	12020 SqFt	Balance Change per Ft = 445 CY
			Material		Volume CY
	pave and conc				147

#	Desc	Strip			
5	topsoil	.5			
	topsoil		Area =	179 SqFt	Balance Change per Ft = 7 CY
			Material	Thickness Ft	Volume CY
	topsoil	.5			3.
Totals for Strip Area # 5					
			Area =	179 SqFt	Balance Change per Ft = 7 CY
			Material		Volume CY
	topsoil				3

#	Desc	Strip
7	hole	.

Section Strip Area Report

JOB: 7506 Hamilton Commons SECTION: A2 Sht 5 Final Grading 5 of

Totals for Strip Area # 7	Area =	12025 SqFt	Balance Change per Ft =	445 CY
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#	Desc	Strip
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8	hole	.
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Totals for Strip Area # 8	Area =	14454 SqFt	Balance Change per Ft =	535 CY
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#	Desc	Strip
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9	hole	.
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Totals for Strip Area # 9	Area =	1966 SqFt	Balance Change per Ft =	73 CY
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#	Desc	Strip
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10	hole	.
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Totals for Strip Area # 10	Area =	167 SqFt	Balance Change per Ft =	6 CY
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Desc

ALL Strip Areas

Area =	93223 SqFt	Balance Change per Ft =	3453 CY
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Material	Volume CY
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topsoil	974
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pave and conc	147
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JOB: 7506 Hamilton Commons SECTION: A2 Sht 5 Final Grading 5 of

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
1	L_Site	.5	721 Bank Compacted	6 6 6 6	6 6	0 0

Totals for Subgrade # 1 Area = 8018 SqFt Balance Change per Ft = 297 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
2	C_Paver	1.08	1698 Bank Compacted	21 21 21 21	21 21	0 0

Totals for Subgrade # 2 Area = 7939 SqFt Balance Change per Ft = 294 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
3	C_Apron	1.	0 Bank Compacted	16 16 16 16	16 16	0 0

Totals for Subgrade # 3 Area = 792 SqFt Balance Change per Ft = 29 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
6C_SwalkROW		.67	261 Bank Compacted	8 8 8 8	8 8	0 0

Totals for Subgrade # 6 Area = 3171 SqFt Balance Change per Ft = 117 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
7	P_Site	.88	2265 Bank Compacted	73 73 73 73	73 73	0 0

Totals for Subgrade # 7 Area = 43057 SqFt Balance Change per Ft = 1595 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
8	C_SwalkSite	.67	233 Bank Compacted	3 3 3 3	3 3	0 0

Totals for Subgrade # 8 Area = 1732 SqFt Balance Change per Ft = 64 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
9	C_Pad	1.	72 Bank Compacted	0 0 0 0	0 0	0 0

Totals for Subgrade # 9 Area = 530 SqFt Balance Change per Ft = 20 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
10	L_Island	.5	459 Bank Compacted	0 0 0 0	0 0	0 0

Totals for Subgrade # 10 Area = 2311 SqFt Balance Change per Ft = 86 CY

#	Desc	Elevation (Ft)	Fill (CY)	Cut (CY)	Common	Rock
12	B_Bsmnt	87.97	0 Bank Compacted	0 0 0 0	0 0	0 0

Totals for Subgrade # 12 Area = 14725 SqFt Balance Change per Ft = 545 CY

#	Desc	Elevation (Ft)	Fill (CY)	Cut (CY)	Common	Rock
13	B_Bldg	99.97	706 Bank Compacted	2 2 2 2	2 2	0 0

Section Subgrade Report

JOB: 7506 Hamilton Commons SECTION: A2 Sht 5 Final Grading 5 of

 Totals for Subgrade # 13 Area = 10919 SqFt Balance Change per Ft = 404 CY

Desc	Fill (CY)	Cut (CY)	Common	Rock
ALL Subgrades	6415	Bank 128	128	0
		Compacted 128	128	0

Area = 93194 SqFt Balance Change per Ft = 3452 CY

JOB: 7506 Hamilton Commons SECTION: A3 Backfill Breakout

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
1	L_Site	.5	256 Bank Compacted	0 0	0 0	0 0

Totals for Subgrade # 1 Area = 8018 SqFt Balance Change per Ft = 297 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
2	C_Paver	1.08	1579 Bank Compacted	1 1	0 0	1 1

Totals for Subgrade # 2 Area = 7939 SqFt Balance Change per Ft = 294 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
3	C_Apron	1.	0 Bank Compacted	0 0	0 0	0 0

Totals for Subgrade # 3 Area = 792 SqFt Balance Change per Ft = 29 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
6C_SwalkROW		.67	152 Bank Compacted	0 0	0 0	0 0

Totals for Subgrade # 6 Area = 3171 SqFt Balance Change per Ft = 117 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
7	P_Site	.88	249 Bank Compacted	3 3	0 0	3 3

Totals for Subgrade # 7 Area = 43057 SqFt Balance Change per Ft = 1595 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
8	C_SwalkSite	.67	118 Bank Compacted	0 0	0 0	0 0

Totals for Subgrade # 8 Area = 1732 SqFt Balance Change per Ft = 64 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
9	C_Pad	1.	0 Bank Compacted	0 0	0 0	0 0

Totals for Subgrade # 9 Area = 530 SqFt Balance Change per Ft = 20 CY

#	Desc	Depth (Ft)	Fill (CY)	Cut (CY)	Common	Rock
10	L_Island	.5	394 Bank Compacted	0 0	0 0	0 0

Totals for Subgrade # 10 Area = 2311 SqFt Balance Change per Ft = 86 CY

#	Desc	Elevation (Ft)	Fill (CY)	Cut (CY)	Common	Rock
12	B_Bsmnt	87.97	0 Bank Compacted	0 0	0 0	0 0

Totals for Subgrade # 12 Area = 14725 SqFt Balance Change per Ft = 545 CY

#	Desc	Elevation (Ft)	Fill (CY)	Cut (CY)	Common	Rock
13	B_Bldg	99.97	482 Bank Compacted	1 1	0 0	1 1

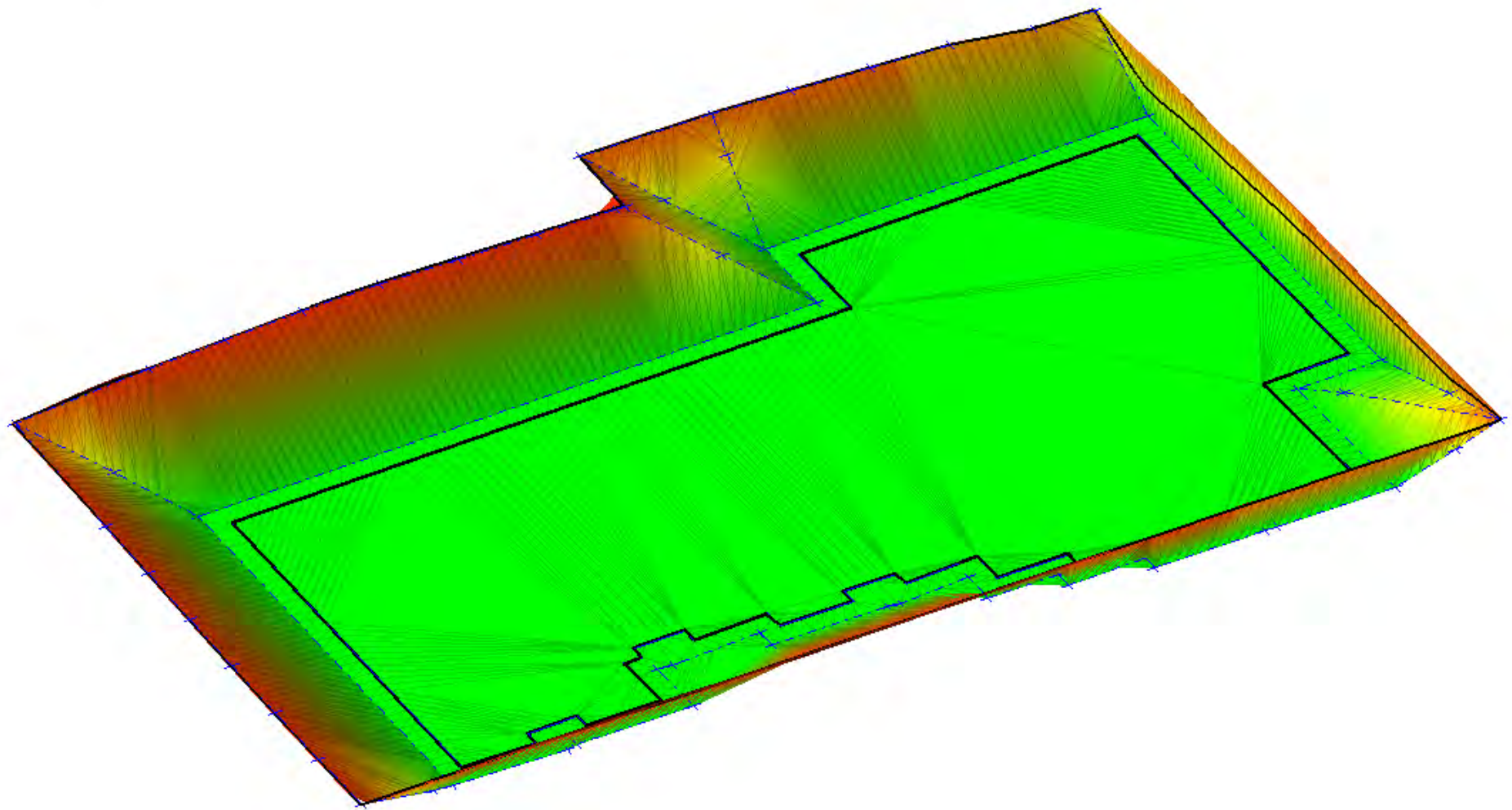
Section Subgrade Report

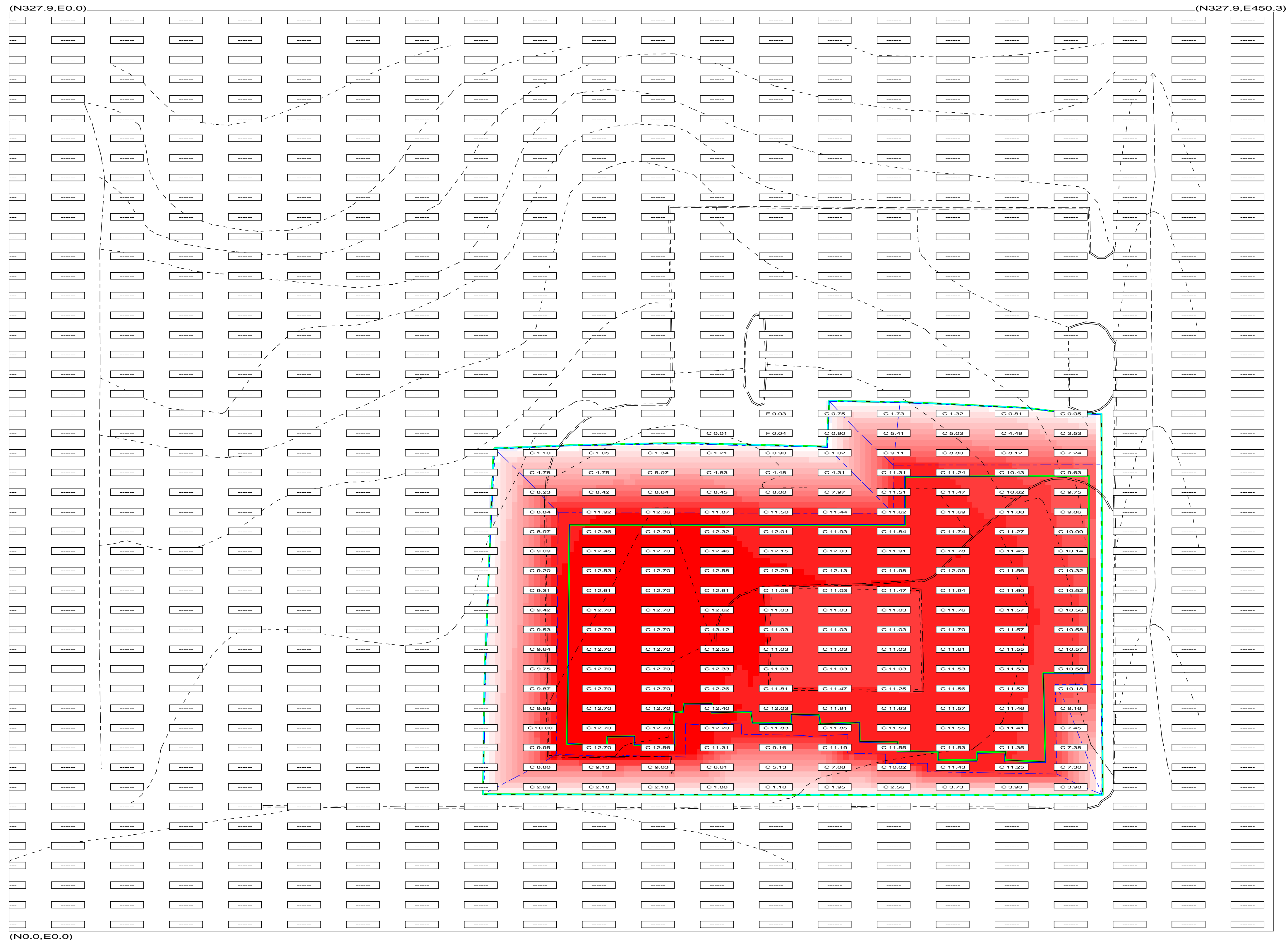
JOB: 7506 Hamilton Commons SECTION: A3 Backfill Breakout

Totals for Subgrade # 13 Area = 10919 SqFt Balance Change per Ft = 404 CY

Desc	Fill (CY)	Cut (CY)	Common	Rock
ALL Subgrades	3231	6	0	6
	Bank	6	0	6
	Compacted	6	0	6

Area = 93194 SqFt Balance Change per Ft = 3452 CY





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(N327.9,E450.3)

(N0.0,E0.0)

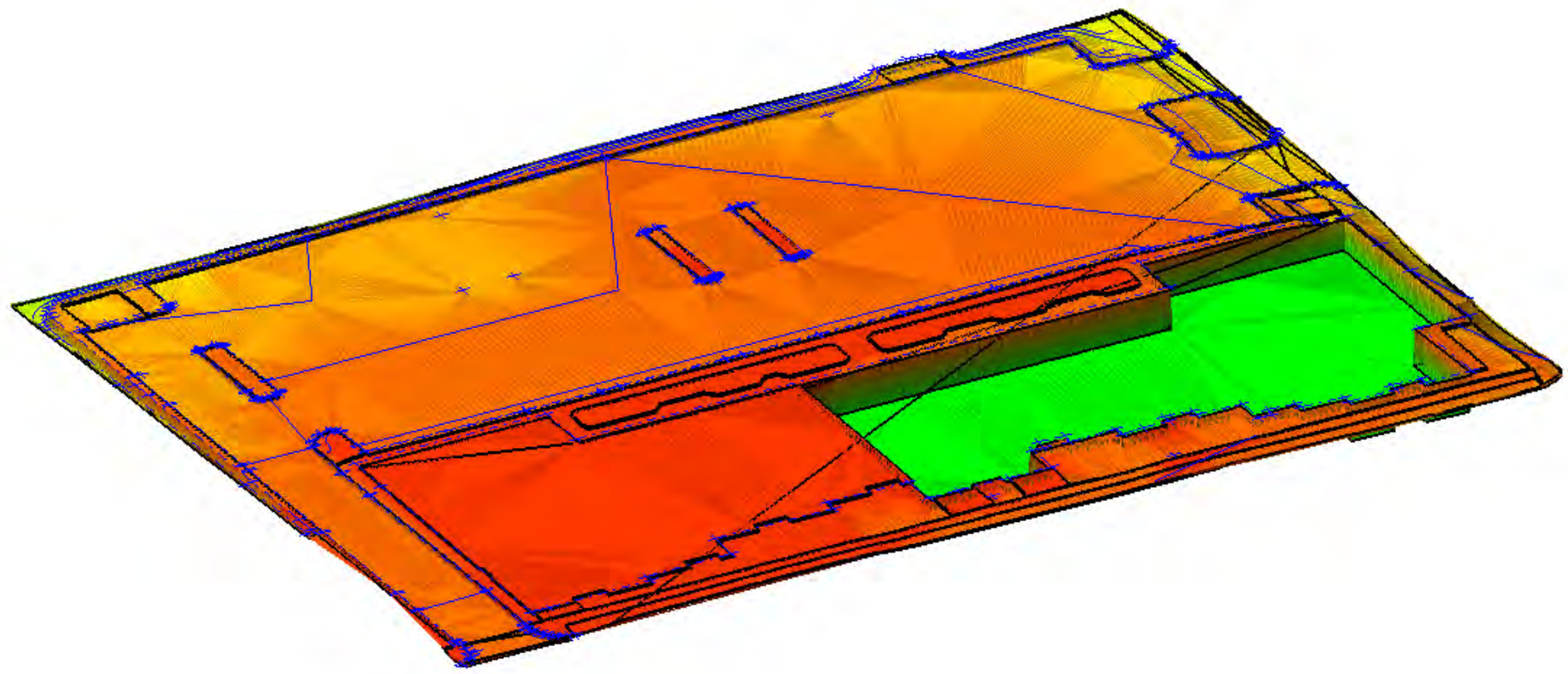
Existing GRIDS:
 Proposed Cut & Fill Depth

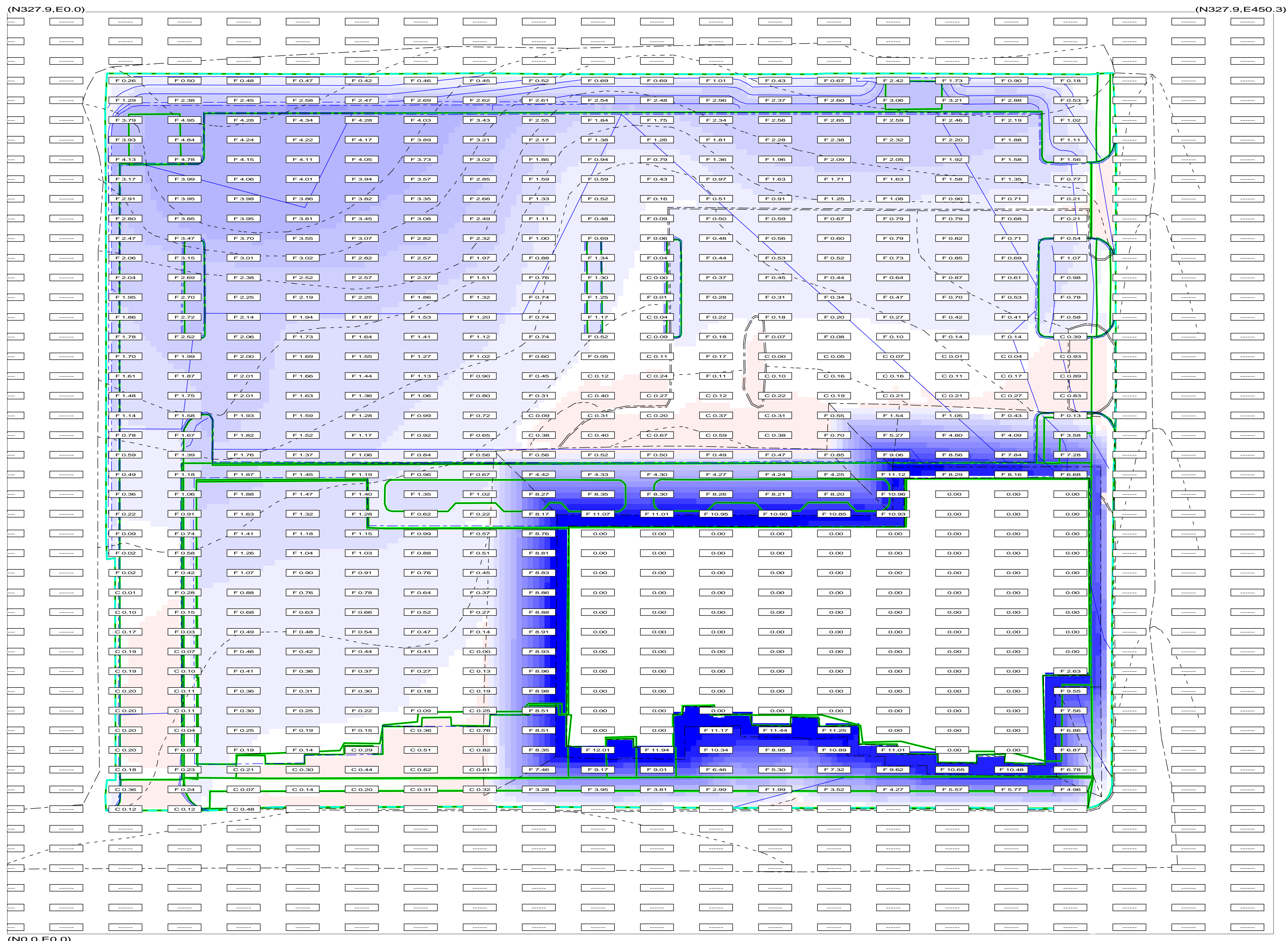
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 Y-SCALE: 20. ft/in
 RUN DATE: 02-02-2018 RUN TIME: 15:24:27
 COMPANY:
 ESTIMATOR:



Existing GRIDS:
Strat 2 Depth
Proposed

JOB: 7506
SECTION: A1
X-SCALE: 20. ft/in
Y-SCALE: 20. ft/in
RUN DATE: 02-02-2018 RUN TIME: 15:25:25
COMPANY:
ESTIMATOR:





Existing GRIDS:
Proposed Cut & Fill Depth

JOB: 7506
SECTION: A2
X-SCALE: 20. ft/in
Y-SCALE: 20. ft/in
RUN DATE: 02-02-2018 RUN TIME: 15:31:35
COMPANY:
ESTIMATOR: