

Building Data Summary

Project ID:	Aldi Parcel
Location:	WEST MAIN ST LOCUST, NC 28097
Scope of Work:	civil work
Date:	

Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
DIVISION 01 GENERAL REQUIREMENTS														
1		Supervision and Coordination	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 4,000.00	
2		Submittals and Shop drawings	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 1,500.00	
3		Final Cleaning	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 1,800.00	
4		Mobilization Costs	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 6,000.00	
5		Temporary Control & Facilities	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 3,500.00	
Subtotal (General Requirements)														\$ 16,800
DIVISION 02- SITE WORK/ EXISTING CONDITIONS														
EARTHWORK														
6		Clearing & Grubbing	SF	136164	3%	140249	\$ 0.15	\$ 21,037.34	0.002	\$ 60.00	\$ 0.12	\$ 16,829.87	\$ 37,867.21	
7		6" Topsoil Stripping Assumed	CY	2522	3%	2598	\$ 8.00	\$ 20,781.28	0.020	\$ 60.00	\$ 1.20	\$ 3,117.19	\$ 23,898.47	
8		Excess Topsoil	CY	2522	3%	2598	\$ -	\$ -	0.010	\$ 60.00	\$ 0.60	\$ 1,558.60	\$ 1,558.60	
9		Cut for mass grading	CY	2352	3%	2423	\$ 6.00	\$ 14,535.36	0.015	\$ 60.00	\$ 0.90	\$ 2,180.30	\$ 16,715.66	
10		Fill for mass grading	CY	20690	3%	21311	\$ 12.00	\$ 255,728.40	0.020	\$ 60.00	\$ 1.20	\$ 25,572.84	\$ 281,301.24	
		Net Fill	CY	18338	3%	18888	\$ 6.00	\$ 113,328.84	0.010	\$ 60.00	\$ 0.60	\$ 11,332.88	\$ 124,661.72	
SITE IMPROVEMENTS														
HEAVY DUTY ASPHALT PAVEMENT														
11		3.5" Heavy Duty Asphalt pavement	SF	37781	3%	38914	\$ 4.00	\$ 155,657.93	0.020	\$ 60.00	\$ 1.20	\$ 46,697.38	\$ 202,355.30	
12		8" Thick ABC Aggregate	CY	938	3%	966	\$ 30.00	\$ 28,969.67	0.030	\$ 60.00	\$ 1.80	\$ 1,738.18	\$ 30,707.85	
13		Compacted Subgrade	SF	37781	3%	38914	\$ 0.55	\$ 21,402.96	0.005	\$ 60.00	\$ 0.30	\$ 11,674.34	\$ 33,077.31	
LIGHT DUTY ASPHALT PAVEMENT														
14		2" Light Duty Asphalt pavement	SF	17056	3%	17567	\$ 2.20	\$ 38,648.08	0.015	\$ 60.00	\$ 0.90	\$ 15,810.58	\$ 54,458.66	
15		6" Thick ABC Aggregate	CY	316	3%	325	\$ 25.00	\$ 8,133.01	0.030	\$ 60.00	\$ 1.80	\$ 585.58	\$ 8,718.59	
16		Compacted Subgrade	SF	17056	3%	17567	\$ 0.55	\$ 9,662.02	0.005	\$ 60.00	\$ 0.30	\$ 5,270.19	\$ 14,932.21	
SIDEWALK														
17		4" Thick Concrete Sidewalk 4000 PSI	SF	1525	3%	1570	\$ 8.00	\$ 12,563.53	0.060	\$ 60.00	\$ 3.60	\$ 5,653.59	\$ 18,217.12	
18		4" Thick ABC Aggregate	CY	19	3%	19	\$ 25.00	\$ 479.86	0.020	\$ 60.00	\$ 1.20	\$ 23.03	\$ 502.89	
19		Control Joint	LF	244	3%	251	\$ 2.50	\$ 628.18	0.020	\$ 60.00	\$ 1.20	\$ 301.52	\$ 929.70	
20		Expansion Joint	LF	122	3%	126	\$ 2.50	\$ 314.09	0.020	\$ 60.00	\$ 1.20	\$ 150.76	\$ 464.85	
21		4" Edge Form	LF	633	3%	652	\$ 2.50	\$ 1,629.98	0.010	\$ 60.00	\$ 0.60	\$ 391.19	\$ 2,021.17	
TRANSFORMER PAD														
22		6" Thick Concrete Pad 4000 PSI	SF	52	3%	53	\$ 10.00	\$ 531.17	0.080	\$ 60.00	\$ 4.80	\$ 254.96	\$ 786.13	
23		4" Thick ABC Aggregate	CY	1	3%	1	\$ 25.00	\$ 16.23	0.020	\$ 60.00	\$ 1.20	\$ 0.78	\$ 17.01	
24		Control Joint	LF	8	3%	8	\$ 2.50	\$ 21.25	0.020	\$ 60.00	\$ 1.20	\$ 10.20	\$ 31.45	
25		Expansion Joint	LF	4	3%	4	\$ 2.50	\$ 10.62	0.020	\$ 60.00	\$ 1.20	\$ 5.10	\$ 15.72	
26		6" Edge Form	LF	29	3%	30	\$ 2.50	\$ 74.68	0.010	\$ 60.00	\$ 0.60	\$ 17.92	\$ 92.60	
CURB AND GUTTER														
27		18" Curb And Gutter	LF	2508	3%	2584	\$ 35.00	\$ 90,428.18	0.060	\$ 60.00	\$ 3.60	\$ 9,301.18	\$ 99,729.36	
MISC ITEMS														
28		Bollards	EA	9	3%	9	\$ 800.00	\$ 7,416.00	0.500	\$ 60.00	\$ 30.00	\$ 278.10	\$ 7,694.10	
PAVEMENT MARKING														
29		ADA Accessible Marking Symbol	EA	4	3%	4	\$ 290.00	\$ 1,194.80	0.250	\$ 60.00	\$ 15.00	\$ 61.80	\$ 1,256.60	
30		ADA Accessible Marking	LF	192	3%	197	\$ 1.50	\$ 296.13	0.010	\$ 60.00	\$ 0.60	\$ 118.45	\$ 414.58	
31		Parking Stall Marking	LF	1666	3%	1715	\$ 0.95	\$ 1,629.72	0.010	\$ 60.00	\$ 0.60	\$ 1,029.30	\$ 2,659.02	
Subtotal (Site Work/ Existing Conditions)														\$ 965,085
PROJECTED COST													\$	981,885
INSURANCE													3%	\$ 29,457
CONTINGENCY													5%	\$ 49,094
OVERHEAD AND PROFIT													15%	\$ 147,283
TAX													7.00%	\$ 56,358
SUGGESTED BID													\$	1,264,077

Note:

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Building Data Summary

Project ID:	Access Road
Location:	WEST MAIN ST LOCUST, NC 28097
Scope of Work:	civil work
Date:	

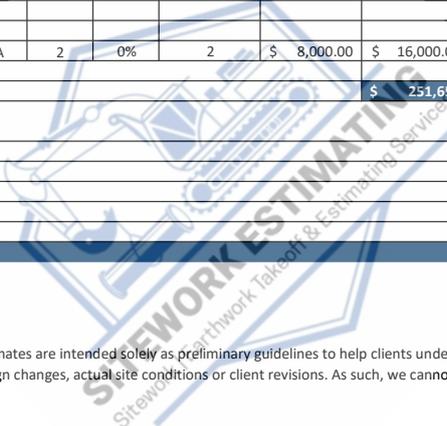
Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
DIVISION.01 GENERAL REQUIREMENTS														
1		Supervision and Coordination	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 2,000.00	
2		Submittals and Shop drawings	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 800.00	
3		Final Cleaning	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 1,200.00	
4		Mobilization Costs	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 3,000.00	
5		Temporary Control & Facilities	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 2,500.00	
Subtotal (General Requirements)													\$	9,500

DIVISION 02- SITE WORK/ EXISTING CONDITIONS														
EARTHWORK														
6		Clearing & Grubbing	SF	40996	0%	40996	\$ 0.15	\$ 6,149.40	0.002	\$ 60.00	\$ 0.12	\$ 4,919.52	\$ 11,068.92	
7		6" Topsoil Stripping Assumed	CY	759	0%	759	\$ 8.00	\$ 6,072.00	0.020	\$ 60.00	\$ 1.20	\$ 910.80	\$ 6,982.80	
8		Excess Topsoil	CY	759	0%	759	\$ -	\$ -	0.010	\$ 60.00	\$ 0.60	\$ 455.40	\$ 455.40	
		Cut for mass grading	CY	1320	0%	1320	\$ 6.00	\$ 7,920.00	0.015	\$ 60.00	\$ 0.90	\$ 1,188.00	\$ 9,108.00	
9		Fill for mass grading	CY	905	0%	905	\$ 12.00	\$ 10,860.00	0.020	\$ 60.00	\$ 1.20	\$ 1,086.00	\$ 11,946.00	
10		Net Fill	CY	415	0%	415	\$ 6.00	\$ 2,490.00	0.010	\$ 60.00	\$ 0.60	\$ 249.00	\$ 2,739.00	
SITE IMPROVEMENTS														
HEAVY DUTY ASPHALT PAVEMENT														
11		3.5" Heavy Duty Asphalt pavement	SF	26527	0%	26527	\$ 4.00	\$ 106,108.00	0.020	\$ 60.00	\$ 1.20	#####	\$137,940.40	
12		8" Thick ABC Aggregare	CY	658	0%	658	\$ 30.00	\$ 19,747.88	0.030	\$ 60.00	\$ 1.80	\$ 1,184.87	\$ 20,932.75	
13		Compacted Subgrade	SF	26527	0%	26527	\$ 0.55	\$ 14,589.85	0.005	\$ 60.00	\$ 0.30	\$ 7,958.10	\$ 22,547.95	
CURB AND GUTTER														
14		18" Curb And Gutter	LF	1326	0%	1326	\$ 35.00	\$ 46,410.00	0.060	\$ 60.00	\$ 3.60	\$ 4,773.60	\$ 51,183.60	
PAVEMENT MARKING														
15		Directional Arrow	EA	7	0%	7	\$ 120.00	\$ 840.00	0.600	\$ 60.00	\$ 36.00	\$ 252.00	\$ 1,092.00	
16		Stop bar	LF	10	0%	10	\$ 2.00	\$ 20.00	0.020	\$ 60.00	\$ 1.20	\$ 12.00	\$ 32.00	
17		Parking Stall Marking	LF	1666	0%	1666	\$ 0.90	\$ 1,499.40	0.010	\$ 60.00	\$ 0.60	\$ 999.60	\$ 2,499.00	
STORM SERVICES														
STORM PIPE														
18		42" RCP Storm Line	LF	50	0%	50	\$ 250.00	\$ 12,500.00	1.000	\$ 60.00	\$ 60.00	\$ 3,000.00	\$ 15,500.00	
19		Excavation	CY	103	0%	103	\$ -	\$ -	0.200	\$ 60.00	\$ 12.00	\$ 1,236.00	\$ 1,236.00	
20		Bedding Material	CY	10	0%	10	\$ 45.00	\$ 450.00	0.080	\$ 60.00	\$ 4.80	\$ 48.00	\$ 498.00	
21		Backfill	CY	74	0%	74	\$ -	\$ -	0.080	\$ 60.00	\$ 4.80	\$ 355.20	\$ 355.20	
MISC ITEMS														
22		42" Headwall	EA	2	0%	2	\$ 8,000.00	\$ 16,000.00	40.000	\$ 60.00	\$ 2,400.00	\$ 4,800.00	\$ 20,800.00	
Subtotal (Site Work/ Existing Conditions)													\$	251,657

PROJECTED COST													\$	326,417
INSURANCE													3%	\$ 9,793
CONTINGENCY													5%	\$ 16,321
OVERHEAD AND PROFIT													15%	\$ 48,963
TAX													7.00%	\$ 17,616
SUGGESTED BID													\$	419,109

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Building Data Summary

Project ID:	Strickland & Dunkin
Location:	WEST MAIN ST LOCUST, NC 28097
Scope of Work:	civil work
Date:	

Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
DIVISION.01 GENERAL REQUIREMENTS														
1		Supervision and Coordination	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ -	3,000.00
2		Submittals and Shop drawings	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ -	1,200.00
3		Final Cleaning	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ -	1,500.00
4		Mobilization Costs	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ -	3,500.00
5		Temporary Control & Facilities	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ -	3,200.00
Subtotal (General Requirements)													\$	12,400

DIVISION 02- SITE WORK/ EXISTING CONDITIONS														
EARTHWORK														
6		Clearing & Grubbing	SF	93034	0%	93034	\$ 0.15	\$ 13,955.10	0.002	\$ 60.00	\$ 0.12	\$ 11,164.08	\$ -	\$ 25,119.18
7		6" Topsoil Stripping Assumed	CY	1723	0%	1723	\$ 8.00	\$ 13,784.00	0.020	\$ 60.00	\$ 1.20	\$ 2,067.60	\$ -	\$ 15,851.60
8		Excess Topsoil	CY	1723	0%	1723	\$ -	\$ -	0.010	\$ 60.00	\$ 0.60	\$ 1,033.80	\$ -	\$ 1,033.80
9		Cut for mass grading	CY	4058	0%	4058	\$ 6.00	\$ 24,348.00	0.015	\$ 60.00	\$ 0.90	\$ 3,652.20	\$ -	\$ 28,000.20
10		Fill for mass grading	CY	881	0%	881	\$ 12.00	\$ 10,572.00	0.020	\$ 60.00	\$ 1.20	\$ 1,057.20	\$ -	\$ 11,629.20
		Net Fill	CY	3177	0%	3177	\$ 6.00	\$ 19,062.00	0.010	\$ 60.00	\$ 0.60	\$ 1,906.20	\$ -	\$ 20,968.20

SITE IMPROVEMENTS														
HEAVY DUTY ASPHALT PAVEMENT														
11		3.5" Heavy Duty Asphalt pavement	SF	19424	0%	19424	\$ 4.00	\$ 77,696.00	0.020	\$ 60.00	\$ 1.20	\$ 23,308.80	\$ -	\$ 101,004.80
12		8" Thick ABC Aggregate	CY	482	0%	482	\$ 30.00	\$ 14,460.00	0.030	\$ 60.00	\$ 1.80	\$ 867.61	\$ -	\$ 15,327.69
13		Compacted Subgrade	SF	19424	0%	19424	\$ 0.55	\$ 10,683.20	0.005	\$ 60.00	\$ 0.30	\$ 5,827.20	\$ -	\$ 16,510.40

LIGHT DUTY ASPHALT PAVEMENT														
14		2" Light Duty Asphalt pavement	SF	5241	0%	5241	\$ 2.20	\$ 11,530.20	0.015	\$ 60.00	\$ 0.90	\$ 4,716.90	\$ -	\$ 16,247.10
15		6" Thick ABC Aggregate	CY	97	0%	97	\$ 25.00	\$ 2,426.39	0.030	\$ 60.00	\$ 1.80	\$ 174.70	\$ -	\$ 2,601.09
16		Compacted Subgrade	SF	5241	0%	5241	\$ 0.55	\$ 2,882.55	0.005	\$ 60.00	\$ 0.30	\$ 1,572.30	\$ -	\$ 4,454.85

CONCRETE PATIO														
17		6" Thick Concrete Pad 4000 PSI	SF	1278	0%	1278	\$ 11.80	\$ 15,080.40	0.080	\$ 60.00	\$ 4.80	\$ 6,134.40	\$ -	\$ 21,214.80
18		6" Thick ABC Aggregate	CY	24	0%	24	\$ 25.00	\$ 600.00	0.020	\$ 60.00	\$ 1.20	\$ 28.80	\$ -	\$ 628.80
19		Control Joint	LF	204	0%	204	\$ 2.50	\$ 511.20	0.020	\$ 60.00	\$ 1.20	\$ 245.38	\$ -	\$ 756.58
20		Expansion Joint	LF	102	0%	102	\$ 2.50	\$ 255.60	0.020	\$ 60.00	\$ 1.20	\$ 122.69	\$ -	\$ 378.29
21		6" Edge Form	LF	140	0%	140	\$ 2.50	\$ 350.00	0.010	\$ 60.00	\$ 0.60	\$ 84.00	\$ -	\$ 434.00

CURB AND GUTTER														
22		18" Curb And Gutter	LF	2508	0%	2508	\$ 35.00	\$ 87,794.35	0.060	\$ 60.00	\$ 3.60	\$ 9,030.28	\$ -	\$ 96,824.63

DUMPSTER PAD														
23		6" Thick Concrete Pad 4000 PSI	SF	403	0%	403	\$ 11.80	\$ 4,755.40	0.080	\$ 60.00	\$ 4.80	\$ 1,934.40	\$ -	\$ 6,689.80
24		6" Thick ABC Aggregate	CY	7	0%	7	\$ 25.00	\$ 175.00	0.020	\$ 60.00	\$ 1.20	\$ 8.40	\$ -	\$ 183.40
25		Control Joint	LF	65	0%	65	\$ 2.50	\$ 162.50	0.020	\$ 60.00	\$ 1.20	\$ 78.00	\$ -	\$ 240.50
26		Expansion Joint	LF	32	0%	32	\$ 2.50	\$ 80.00	0.020	\$ 60.00	\$ 1.20	\$ 38.40	\$ -	\$ 118.40
27		6" Edge Form	LF	120	0%	120	\$ 2.50	\$ 300.00	0.010	\$ 60.00	\$ 0.60	\$ 72.00	\$ -	\$ 372.00

CONCRETE MEDIUM														
28		6" Thick Concrete Pad 4000 PSI	SF	103	0%	103	\$ 11.80	\$ 1,215.40	0.080	\$ 60.00	\$ 4.80	\$ 494.40	\$ -	\$ 1,709.80
29		6" Thick ABC Aggregate	CY	2	0%	2	\$ 25.00	\$ 50.00	0.020	\$ 60.00	\$ 1.20	\$ 2.40	\$ -	\$ 52.40
30		Control Joint	LF	17	0%	17	\$ 2.50	\$ 42.50	0.020	\$ 60.00	\$ 1.20	\$ 20.40	\$ -	\$ 62.90
31		Expansion Joint	LF	8	0%	8	\$ 2.50	\$ 20.00	0.020	\$ 60.00	\$ 1.20	\$ 9.60	\$ -	\$ 29.60
32		6" Edge Form	LF	140	0%	140	\$ 2.50	\$ 350.00	0.010	\$ 60.00	\$ 0.60	\$ 84.00	\$ -	\$ 434.00

PAVEMENT MARKING														
33		Directional Arrow	EA	18	0%	18	\$ 120.00	\$ 2,160.00	0.600	\$ 60.00	\$ 36.00	\$ 648.00	\$ -	\$ 2,808.00
34		Pavement Marking	LF	1346	0%	1346	\$ 0.90	\$ 1,211.40	0.020	\$ 60.00	\$ 1.20	\$ 1,615.20	\$ -	\$ 2,826.60
35		ADA Accessible Marking Symbol	EA	3	0%	3	\$ 180.00	\$ 540.00	0.800	\$ 60.00	\$ 48.00	\$ 144.00	\$ -	\$ 684.00
36		Stop bar	LF	53	0%	53	\$ 2.00	\$ 106.00	0.020	\$ 60.00	\$ 1.20	\$ 63.60	\$ -	\$ 169.60
37		ADA Accessible Marking	LF	104	0%	104	\$ 1.50	\$ 156.00	0.030	\$ 60.00	\$ 1.80	\$ 187.20	\$ -	\$ 343.20
38		Parking Stall Marking	LF	515	0%	515	\$ 0.90	\$ 463.50	0.010	\$ 60.00	\$ 0.60	\$ 309.00	\$ -	\$ 772.50

STORM SERVICES														
STORM PIPE														
39		24" HDPE Storm Line	LF	50	0%	50	\$ 75.00	\$ 3,750.00	0.080	\$ 60.00	\$ 4.80	\$ 240.00	\$ -	\$ 3,990.00
40		Excavation	CY	103	0%	103	\$ -	\$ -	0.200	\$ 60.00	\$ 12.00	\$ 1,236.00	\$ -	\$ 1,236.00
41		Bedding Material	CY	10	0%	10	\$ 45.00	\$ 450.00	0.080	\$ 60.00	\$ 4.80	\$ 48.00	\$ -	\$ 498.00
42		Backfill	CY	74	0%	74	\$ -	\$ -	0.080	\$ 60.00	\$ 4.80	\$ 355.20	\$ -	\$ 355.20

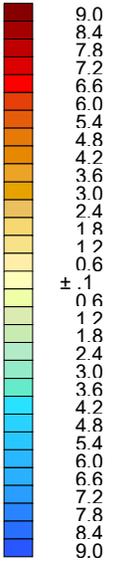
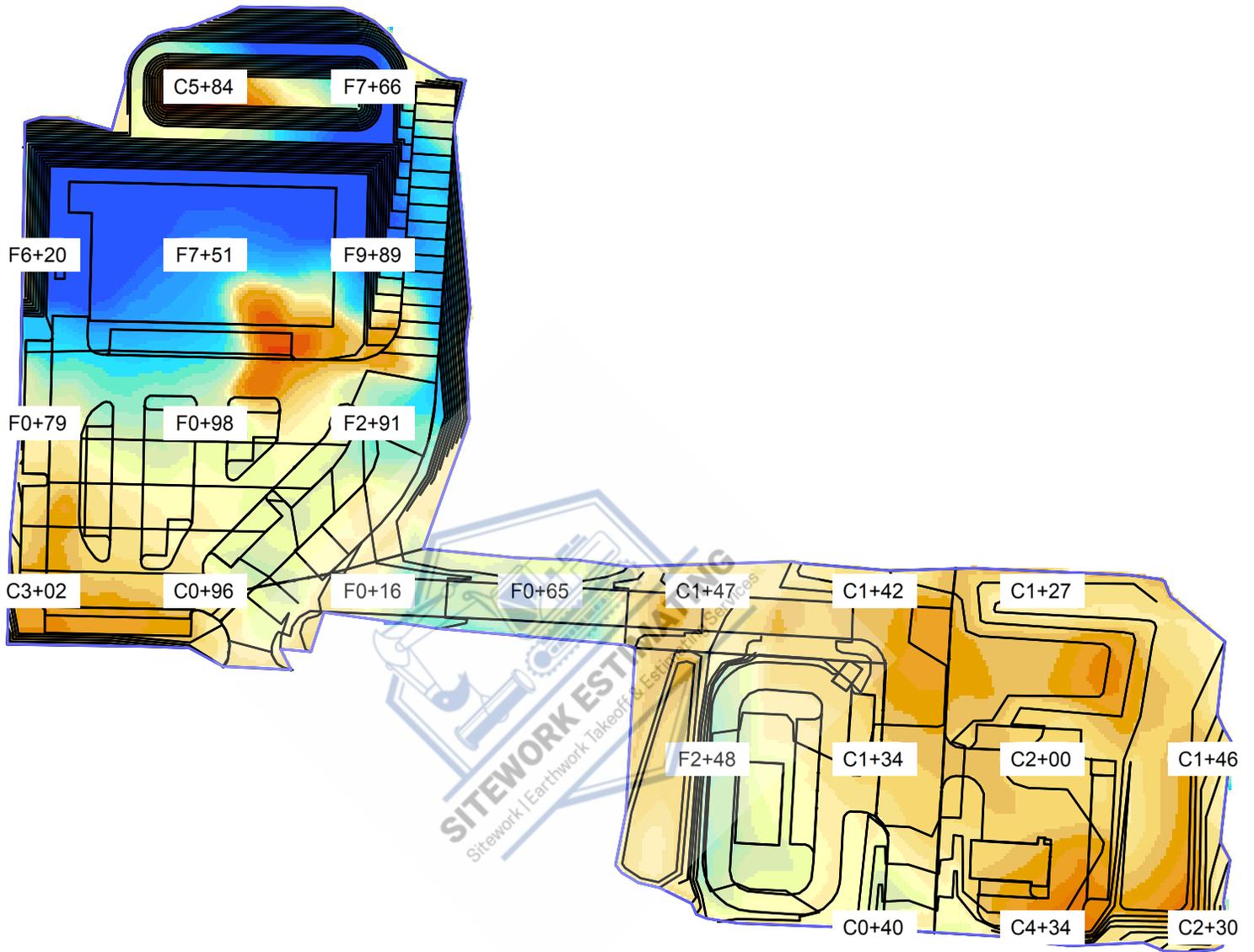
MISC ITEMS														
43		24" HDPE Flared End Section	EA	2	0%	2	\$ 950.00	\$ 1,900.00	4.000	\$ 60.00	\$ 240.00	\$ 480.00	\$ -	\$ 2,380.00
44		Drop Inlet Frame With Cover	EA	6	0%	6	\$ 1,200.00	\$ 7,200.00	6.000	\$ 60.00	\$ 360.00	\$ 2,160.00	\$ -	\$ 9,360.00
45		Storm Manhole Frame With Cover	EA	2	0%	2	\$ 2,000.00	\$ 4,000.00	8.000	\$ 60.00	\$ 480.00	\$ 960.00	\$ -	\$ 4,960.00
46		Curb Inlet Frame With Cover	EA	3	0%	3	\$ 1,300.00	\$ 3,900.00	10.000	\$ 60.00	\$ 600.00	\$ 1,800.00	\$ -	\$ 5,700.00

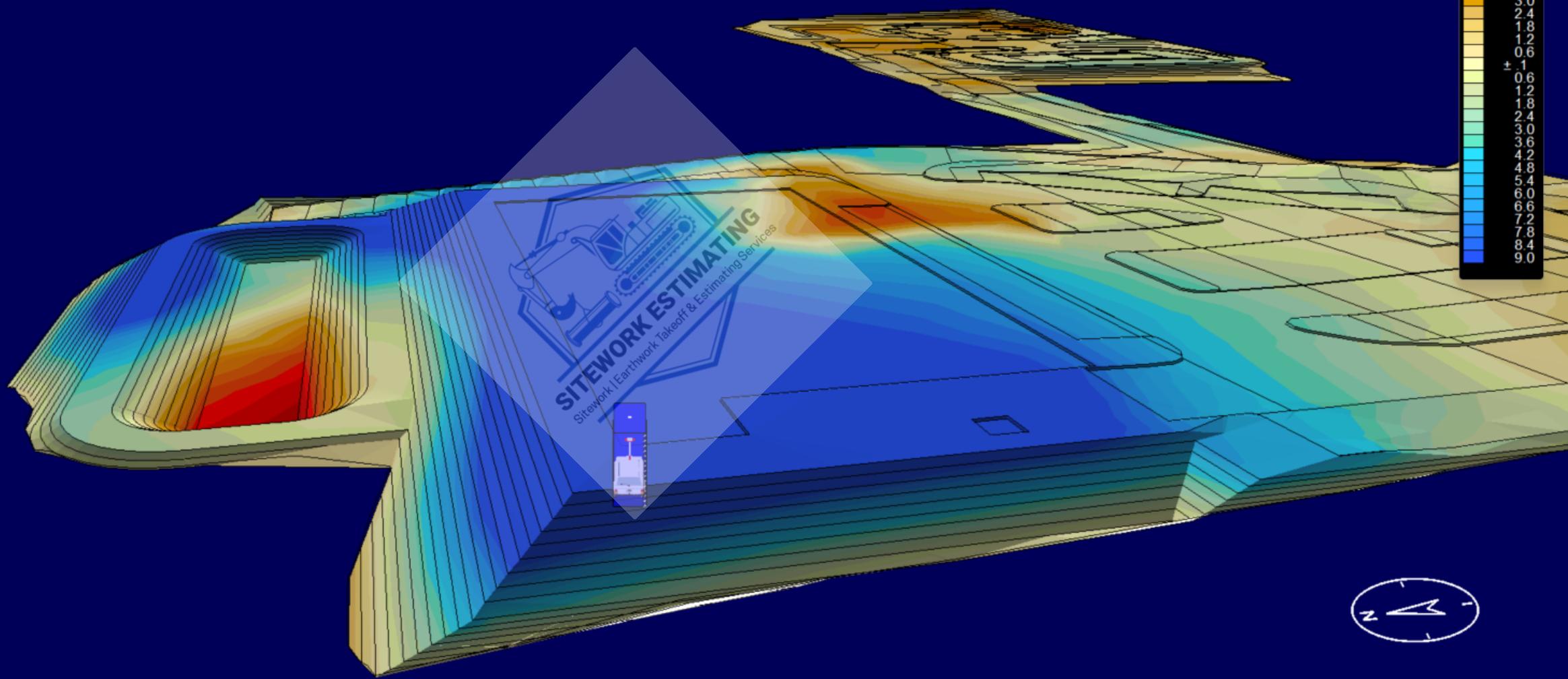
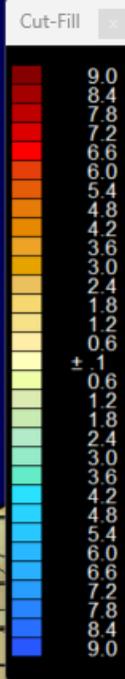
Subtotal (Site Work/ Existing Conditions)													\$	338,979	\$	85,982	\$	424,961
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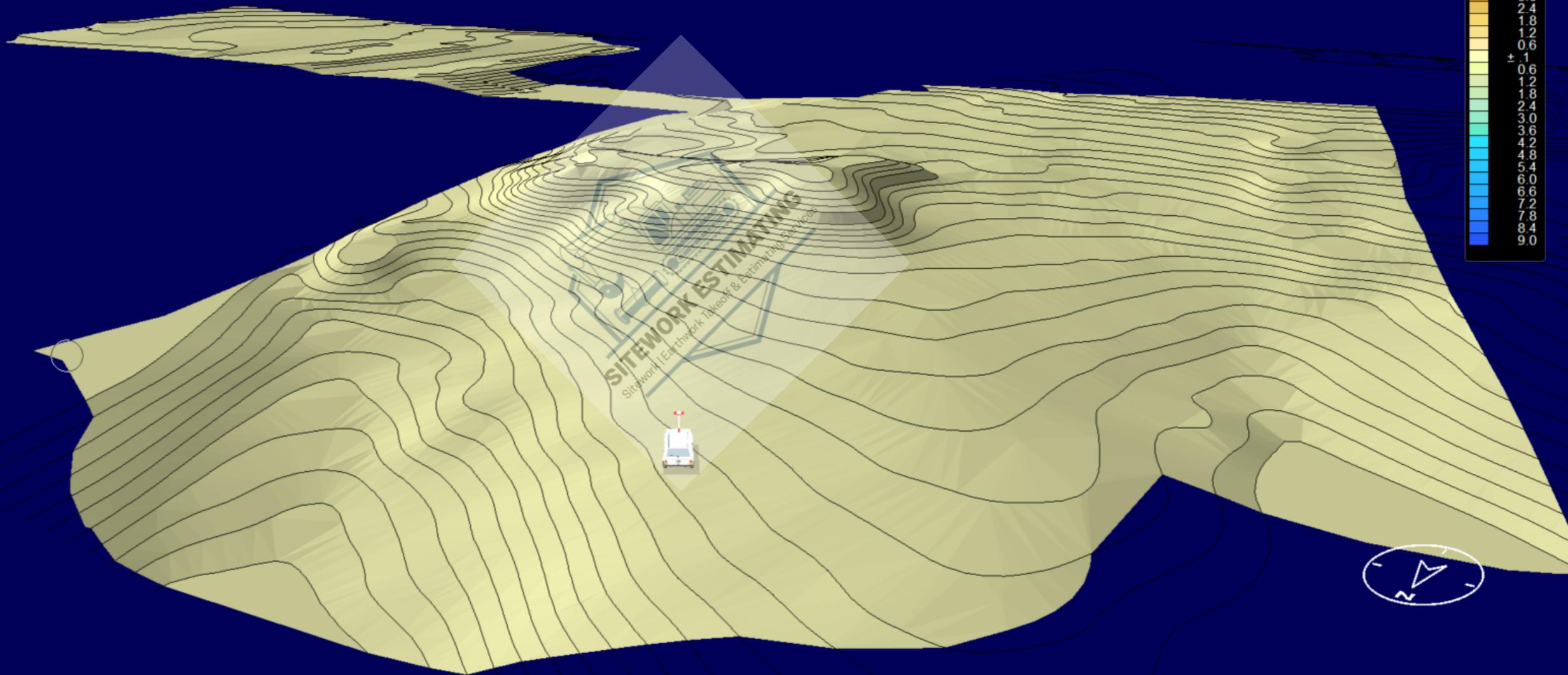
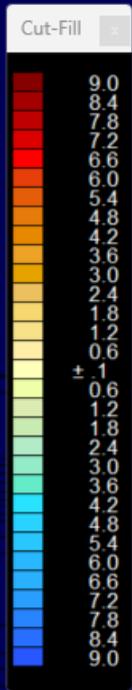
PROJECTED COST													\$	437,361
INSURANCE													3%	\$ 13,121
CONTINGENCY													5%	\$ 21,868
OVERHEAD AND PROFIT													15%	\$ 65,604
TAX													7.00%	\$ 23,729
SUGGESTED BID													\$	561,683

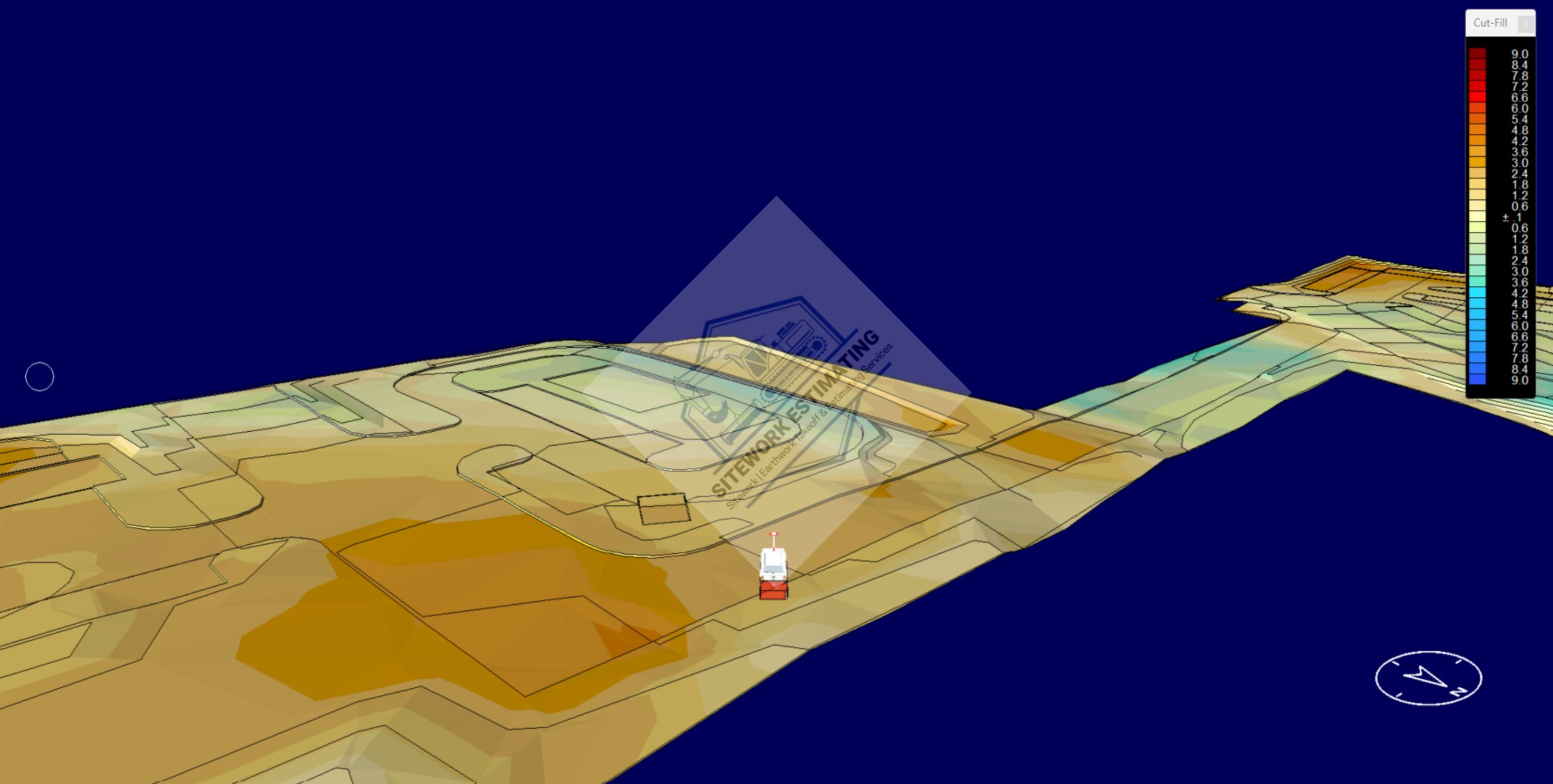
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- Prices can vary depending upon field conditions.
- We do not provide insurance, financial guarantees, or warranties of any kind. Our estimates are intended solely as preliminary guidelines to help clients understand the potential scope and cost of the work. They are not binding offers or fixed bid prices. Actual project costs may vary due to factors such as material availability, design changes, actual site conditions or client revisions. As such, we cannot be held liable for any discrepancies between the initial estimate and the final project cost.



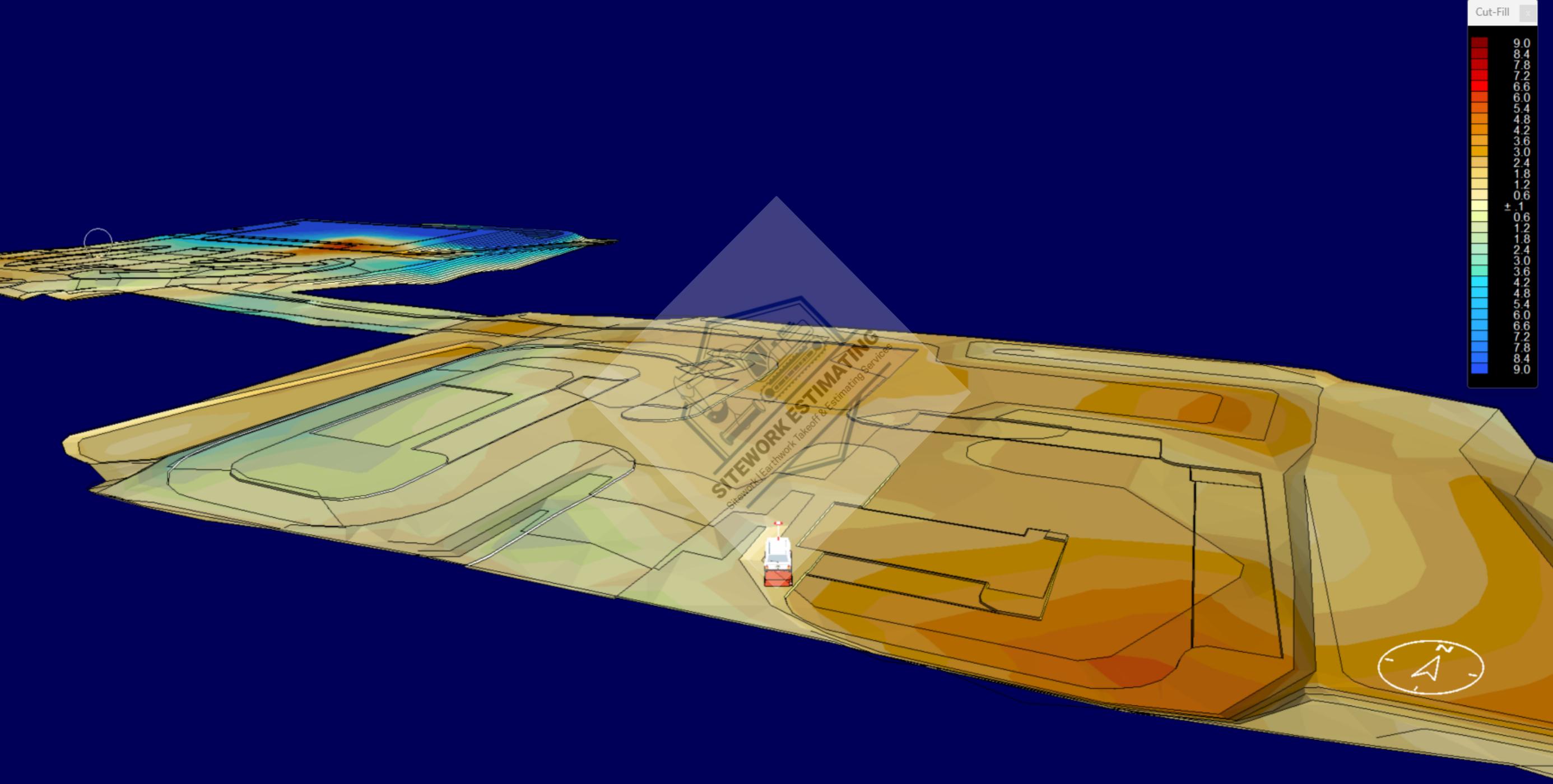


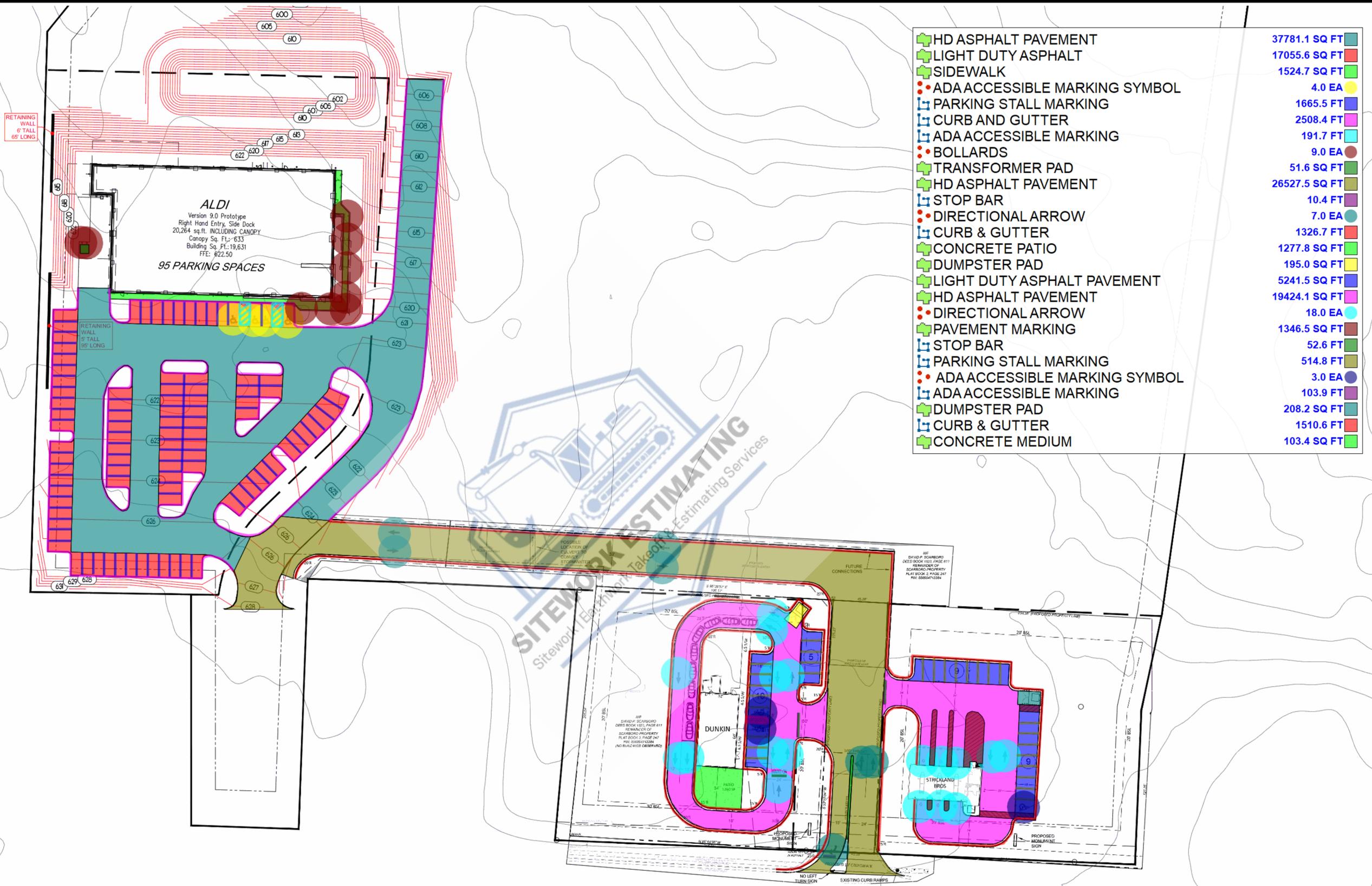




SITEWORK ESTIMATING
Sitework | Earthwork Takeoff & Estimating Services

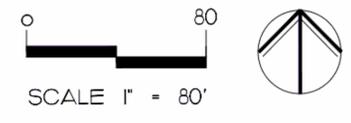






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PROPOSED ALDI
LOCUST, NC



CONCEPT
GRADING

GRADING SYMBOLS LEGEND

	EXISTING CONTOURS		EXISTING SPOT ELEVATION
	PROPOSED CONTOURS		PROPOSED SPOT ELEVATION
	EXISTING STORM SEWER (TO REMAIN)		PROPOSED STORM SEWER
	PROPOSED RETAINING WALL		JUNCTION BOX, JB (1011A)
	CURB INLET, CI (1019A TYPE E)		DOUBLE WING CATCH BASIN, DWCB (10340)
	DOUBLE CURB INLET, DCI		SINGLE WING CATCH BASIN, SWCB (10330)
	DROP INLET, DI (1019A TYPE A)		GRATE INLET (NYLOPAST), GI
	DOUBLE DROP INLET, DDI		SOLID JUNCTION BOX (NYLOPAST), SJB
	TRIPLE DROP INLET, TDI		CLEAN OUT, CO
	YARD INLET, YI		HEADWALL, HW (1001-B)
	OUTLET CONTROL BOX, OCB		FLARED END SECTION, FES (1120)
			SAFETY END SECTION, SES (1122)

BENCHMARKS

- TBM #1: _____ (ABBREVIATION), N-____, E-____, ELV-____, (NAD 83/NADV 88), _____ (LOCATION).
- TBM #2: _____ (DESCRIPTION), N-____, E-____, ELV-____, (NAD 83/NADV 88), _____ (LOCATION).

GRADING NOTES

- ALL AREAS TO RECEIVE PAVEMENT, STRUCTURES OR FILL MATERIAL SHALL BE STRIPPED OF ORGANIC MATERIAL, TOPSOIL, AND DEBRIS PRIOR TO CONSTRUCTION.
- ONCE STRIPPING HAS BEEN COMPLETED, ALL AREAS TO RECEIVE FILL SHOULD BE PROOF-ROLLED IN THE PRESENCE OF A REPRESENTATIVE OF THE SOILS ENGINEER. SOFT AREAS ENCOUNTERED DURING PROOF-ROLLING SHALL BE STABILIZED BY COMPACTION OR UNDERCUT.
- ALL FILL AREAS SHALL BE FREE OF ORGANIC OR OTHERWISE UNSUITABLE MATERIALS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER STANDARD PROCTOR ASTM D698 UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL REPORT AS LISTED BELOW. THE TOP TWO (2) FEET OF FILL UNDER STRUCTURES AND PAVEMENT SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY PER STANDARD PROCTOR ASTM D698 UNLESS OTHERWISE SPECIFIED BY THE GEOTECHNICAL REPORT AS LISTED BELOW.
- EARTHMOVING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE TO THE GEOTECHNICAL REPORT BY DATED _____ (COMPACTATION RECOMMENDATIONS). IF A CONFLICT EXISTS BETWEEN PLANS OR AND SPECIFICATIONS OR AND SOIL REPORT, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR CLARIFICATION.
- ALL SITE PREPARATION SHOULD BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. INSPECTIONS AND TESTING FOR ALL UNDERCUT AND FILL OPERATIONS AS WELL AS THE UTILIZATION OF ACCEPTABLE OFF-SITE BORROW MATERIALS SHOULD BE PERFORMED. THE OWNER, AT HIS OPTION, MAY HAVE DENSITY TESTS PERFORMED TO VERIFY THAT SPECIFIC COMPACTION IS OBTAINED.
- CUT OR FILL SLOPE SHOULD NOT BE STEEPER THAN 2H:1V. ALL PROPOSED SLOPES SHOULD BE OVERBUILT AND CUT BACK TO THE PROPOSED GRADES, EXPOSING THE FIRM COMPACTED INNER CORE. THE EXCAVATION FOR THE SLOPES SHOULD BE MONITORED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. VERTICAL CUTS EXCEED 5 FEET SHOULD BE BRACED AS REQUIRED BY OSHA REGULATIONS FOR SAFETY.
- SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SPOT ELEVATIONS WHICH DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS SHOWN ALONG CURB & GUTTER DESIGNATE THE PROPOSED GRADE AT THE LIP OF THE GUTTER UNLESS OTHERWISE NOTED.
- IF STRUCTURAL FILL IMPORT IS REQUIRED PREPARE THE BUILDING PAD, THE COMPACTED BUILDING PAD(S) MUST EXTEND A MINIMUM OF TEN (10) FEET BEYOND THE BUILDING FOOTPRINT, INCLUDING CANOPES OR OTHER STRUCTURAL APPENDAGES. UNTIL THE PERIMETER FOUNDATIONS AND WALLS ARE CONSTRUCTED AND BACKFILLED, THE EXTENDED PORTION OF THE BUILDING PAD SUBGRADE MAY THEN BE REMOVED/REGRADED TO MEET THE FINAL GRADE AND MATERIAL REQUIREMENTS.
- CONTRACTOR SHALL INSTALL APPROPRIATE EROSION CONTROL MEASURES PRIOR TO ANY LAND DISTURBANCE ACTIVITIES.
- THE CONTRACTOR SHALL ADJUST ALL MANHOLE COVERS, VALVE COVERS, CLEAN OUTS, VAULTS, BOXES, AND GRATES, EXISTING AND PROPOSED, TO "AS-CONSTRUCTED" FINISHED GRADE. GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO INVESTIGATE SUCH ADJUSTMENTS.
- PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, THE CONTRACTOR SHALL VERIFY THE INVERTS OF EXISTING STRUCTURES AND INFORM THE OWNER AND THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ALL PROPOSED DRAINAGE STRUCTURES ARE TO BE INSTALLED PER _____ COUNTY STANDARDS AND SPECIFICATIONS AS REQUIRED.
- THE CONTRACTOR SHALL PROVIDE TO THE OWNER AND ENGINEER OF RECORD, A SURVEYED "AS-BUILT" DRAWING OF EACH DETENTION FACILITY SHOWING POND TOPOGRAPHY (2' CONTOURS AND SPOT ELEVATIONS) AND SIZES AND INVERTS OF ALL OUTLET CONTROLS, AND APPURTENANCES. ADDITIONALLY, THE CONTRACTOR SHALL INCLUDE IN THE AS-BUILT DRAWINGS ALL NECESSARY IMPROVEMENTS, NOTES & CERTIFICATIONS REQUIRED BY THE PERMITTING AUTHORITY.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED AND EXISTING PIPES ARE TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS AFTER CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF DESIGN DRAWINGS SHOWING "AS-BUILT" CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE DESIGNER AND/OR THE CITY/COUNTY INSPECTOR UPON REQUEST. THE MARK-UPS SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE UTILIZED TO DEVELOP FINAL RECORD DRAWINGS.
- THE SEGMENTAL RETAINING WALL SHALL BE DESIGNED AND PERMITTED BY A REGISTERED PROFESSIONAL ENGINEER WHO SHALL BE UNDER CONTRACT WITH THE CONTRACTOR. 14 DAYS PRIOR TO THE ANTICIPATED START DATE OF THE WALL CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PACKAGE TO THE OWNER FOR REVIEW WHICH SHALL INCLUDE: A) PLAN, ELEVATION AND CROSS SECTION VIEWS OF EACH WALL; B) DETAILS FOR CAP BLOCKS, CONCRETE COPING, OR BARRIERS CONSTRUCTED AS PART OF THE WALL CONTRACT; AND C) BLOCK SAMPLE, IF REQUIRED BY ARCHITECT, FOR COLOR AND TEXTURE REVIEW. THE WALL SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE DRAINAGE/RUNOFF BASED UPON THE CONDITIONS OF THE DESIGN PLANS AND WITH A MAXIMUM SETBACK OF 0.875" PER 8" TALL BLOCK. WALL UNITS SHALL HAVE A VERTICAL FACE.

MATERIAL NOTES

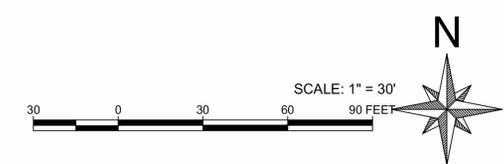
- STORM SEWER MATERIALS SHALL BE INSTALLED AS SHOWN ON THE PLANS.
- STORM SEWER MATERIAL DESIGNATIONS SHALL BE FURTHER DEFINED AS FOLLOWS:
 HDPE - HIGH DENSITY POLYETHYLENE PER AASHTO M284 OR ASTM F2306 (ADS N-12 OR EQUIVALENT), INSTALLED PER ASTM D2321
 HDPEWT - HDPE WATER TIGHT PER AASHTO M294 OR ASTM F2306 AND WITH JOINTS PER ASTM D3212 (ADS N-12 WT OR EQUIVALENT), INSTALLED PER ASTM D2321
 RCP - REINFORCED CONCRETE PIPE, CLASS PER ASTM C76/AASHTO M170 (MIN. CLASS III) AND JOINTS PER ASTM C443
 SRP - ALUMINIZED STEEL, TYPE 2, SPIRAL RIB (CORRUGATED METAL) PIPE PER AASHTO M36 AND M274 OR ASTM A760 AND A929, INSTALLED PER ASTM A798
 CMP - ALUMINIZED STEEL, TYPE 2 CORRUGATED METAL PIPE PER AASHTO M36 AND M274 OR ASTM A760 AND A929, INSTALLED PER ASTM A798
 BCCMP - BITUMINOUS COATED CORRUGATED METAL PIPE PER AASHTO M36 AND M274 OR ASTM A760 AND A929, COATED PER ASTM A798, AND INSTALLED PER ASTM A798
 PVC - SDR 26 PVC PER ASTM D3034
- PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION.
- ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I. UNLESS OTHERWISE NOTED.
- PROVIDE ANTI-SEEP COLLARS ON ALL PIPES AT OR EXCEEDING 20% SLOPE.
- PROVIDE WATER-TIGHT JOINTS ON ALL STORM SEWER PIPES AT OR EXCEEDING 20% SLOPE.
- PROVIDE ANTI-SEEP COLLARS ON ALL PIPES DISCHARGING THROUGH DETENTION POND EMBANKMENT.

	42" RCP CULVERT		50.3 FT
	42" HEADWALL		2.0 EA
	24" HDPE FLARED END SECTION		2.0 EA
	24" HDPE STORM PIPE		703.8 FT
	DROP INLET		6.0 EA
	STORM MH		2.0 EA
	CURB INLET		3.0 EA

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GRADING PLAN
LOCUST MASTER GRADING
 WEST MAIN ST
 LOCUST, NC 28097

C301
22153
JULY 29, 2022
 REVISIONS



Friday, July 29, 2022, 12:31:56pm (64x4-10)
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 User: jg
 Title: GRADING PLAN

Job: ALDI
Units: Ft-CY

Volume Report Subgrade vs. Stripped

Name	Group	Type	Code	Total Area	Cut Area	Fill Area	OnGrade Area	Cut Volume	Fill Volume	Cut Compaction Ratio	Fill Compaction Ratio	Cut Compacted	Fill Compacted	Export -Import	Per 0.1 ft
Access Road Sub: Access Road		Earthwork		40,996	24,115	14,727	2,154	1,320	905	1.00	1.00	1,320	905	415	152
Aldi parcel Sub: Aldi parcel		Earthwork		136,164	31,155	101,528	3,481	2,352	20,690	1.00	1.00	2,352	20,690	-18,338	506
Strickland and Dunkin Sub: Strickland and Dunkin		Earthwork		93,034	69,691	19,740	3,603	4,058	881	1.00	1.00	4,058	881	3,177	345
Regions Total:		Earthwork		270,194	124,961	135,995	9,238	7,730	22,476			7,730	22,476	-14,746	1,003
Name	Group	Type	Code	Plane Area	Slope Area	Depth	Volume								
TS_06"	TS_06"	Stripping		270,195	271,810	0.500	5,034								
Stripping Total		Stripping		270,195	271,810		5,034								

