

Project file data		Coordinate System	
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Comment 1:			
Comment 2:			
Comment 3:			

Areas of Interest		
AOI Name	Number of Boundaries	Total Area (ft ²)
New Addition & Parking	1	21,415.4
Parking Lot area	1	144,945.1
Street Curb & Entrance	1	4,251.6
Two or more of the areas of interest listed above overlap each other. That condition produces the possibility that some quantities may be counted more than once. For that reason, the quantities reported for each area of interest will not be totaled.		

Mass Earthwork Analysis

Volumes per Area of Interest (yd ³)				
Area of Interest	Available Bank Cut	Compacted Fill Required	Excess/Deficit	
New Addition & Parking	79.3	299.1	-219.8	
Parking Lot area	9,234.5	1,996.1	7,238.3	
Street Curb & Entrance	74.4	124.9	-50.5	
Remaining Area	8,110	3,580.1	4,529.9	

The above noted boundary overlap circumstance prevents a reliable summation of the total bank excess or deficit volumes.

Site Improvement Quantities

Area-Based Site Improvements

Site Improvement Name	Takeoff Category	Area		
Material Category: Name			Material Thickness	Material Volume
Site Improvement Category: Building Pad				
Area of Interest: New Addition & Parking				
Buiding Pad 8" conc 4" rock (New Building Addition)	Design	6235.7 ft ² (plan)		
Pavement: Concrete			8.0 in	154 yd ³
Pavement: 3/4" Crushed Aggregate			4.0 in	77 yd ³ (148 Ton)
Site Improvement Category: Landscaping/Topsoil				
Area of Interest: New Addition & Parking				
4" Topsoil Replacement (Island new addition parking)	Design	82.3 yd ² (plan)		
4" Topsoil Replacement (Island new addition parking1)	Design	149.6 yd ² (plan)		
Area of Interest: Parking Lot area				
4" Topsoil Replacement (Outside parking lot areas)	Design	1766.9 yd ² (plan)		
4" Topsoil Replacement (Outside parking lot areas2)	Design	1177.6 yd ² (plan)		
4" Topsoil Replacement (Outside parking lot areas3)	Design	4329.8 yd ² (plan)		
6" Topsoil Replacement (Parking island)	Design	115.8 yd ² (plan)		
6" Topsoil Replacement (Parking island1)	Design	81.3 yd ² (plan)		
6" Topsoil Replacement (Parking island10)	Design	56.5 yd ² (plan)		

6" Topsoil Replacement (Parking island11)	Design	115.9 yd ² (plan)		
6" Topsoil Replacement (Parking island2)	Design	54.3 yd ² (plan)		
6" Topsoil Replacement (Parking island3)	Design	54.3 yd ² (plan)		
6" Topsoil Replacement (Parking island4)	Design	52.0 yd ² (plan)		
6" Topsoil Replacement (Parking island5)	Design	54.3 yd ² (plan)		
6" Topsoil Replacement (Parking island6)	Design	54.3 yd ² (plan)		
6" Topsoil Replacement (Parking island7)	Design	117.9 yd ² (plan)		
6" Topsoil Replacement (Parking island8)	Design	54.3 yd ² (plan)		
6" Topsoil Replacement (Parking island9)	Design	54.3 yd ² (plan)		
Area of Interest: Street Curb & Entrance				
4" Topsoil Replacement (Outside parking lot areas2)	Design	0.1 yd ² (plan)		
4" Topsoil Replacement (Outside parking lot areas3)	Design	0.1 yd ² (plan)		
Site Improvement Category: Pavement				
Area of Interest: New Addition & Parking				
Asphalt Heavy Duty 3-9 (New Addition Parking area)	Design	1247.8 yd ² (plan)		
Pavement: Heavy Duty Asphalt			3.0 in	104 yd ³ (200 Ton)
Pavement: 3/4" Crushed Aggregate			9.0 in	312 yd ³ (600 Ton)
Sidewalk with gravel (Sidewalk around addition)	Design	1163.2 ft ² (plan)		
Pavement: Concrete			4.0 in	15 yd ³
Pavement: 3/4" Crushed Aggregate			4.0 in	14.4 yd ³ (28 Ton)

Area of Interest: Parking Lot area			
Asphalt Light Duty 2-8 (Light Asphalt area10)	Design	172.7 yd ² (plan)	
Pavement: Light Duty Asphalt		2.0 in	9.6 yd ³ (19 Ton)
Pavement: 3/4" Crushed Aggregate		8.0 in	38.4 yd ³ (74 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area11)	Design	186.9 yd ² (plan)	
Pavement: Light Duty Asphalt		2.0 in	10.4 yd ³ (20 Ton)
Pavement: 3/4" Crushed Aggregate		8.0 in	41.5 yd ³ (80 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area12)	Design	186.8 yd ² (plan)	
Pavement: Light Duty Asphalt		2.0 in	10.4 yd ³ (20 Ton)
Pavement: 3/4" Crushed Aggregate		8.0 in	41.5 yd ³ (80 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area13)	Design	122.7 yd ² (plan)	
Pavement: Light Duty Asphalt		2.0 in	6.8 yd ³ (14 Ton)
Pavement: 3/4" Crushed Aggregate		8.0 in	27.3 yd ³ (53 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area14)	Design	197.4 yd ² (plan)	
Pavement: Light Duty Asphalt		2.0 in	11 yd ³ (22 Ton)
Pavement: 3/4" Crushed Aggregate		8.0 in	43.9 yd ³ (85 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area15)	Design	214.8 yd ² (plan)	
Pavement: Light Duty Asphalt		2.0 in	11.9 yd ³ (23 Ton)
Pavement: 3/4" Crushed Aggregate		8.0 in	47.7 yd ³ (92 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area16)	Design	74.7 yd ² (plan)	

Pavement: Light Duty Asphalt			2.0 in	4.2 yd ³ (9 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	16.6 yd ³ (32 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area17)	Design	74.8 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	4.2 yd ³ (9 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	16.6 yd ³ (32 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area18)	Design	231.4 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	12.9 yd ³ (25 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	51.4 yd ³ (99 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area19)	Design	375.5 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	20.9 yd ³ (41 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	83.4 yd ³ (161 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area20)	Design	154.8 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	8.6 yd ³ (17 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	34.4 yd ³ (67 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area21)	Design	218.7 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	12.2 yd ³ (24 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	48.6 yd ³ (94 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area22)	Design	218.7 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	12.2 yd ³ (24 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	48.6 yd ³ (94 Ton)

Asphalt Light Duty 2-8 (Light Asphalt area23)	Design	218.7 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	12.2 yd ³ (24 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	48.6 yd ³ (94 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area3)	Design	235.5 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	13.1 yd ³ (26 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	52.3 yd ³ (101 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area4)	Design	384.9 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	21.4 yd ³ (42 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	85.5 yd ³ (165 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area5)	Design	252.2 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	14 yd ³ (27 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	56 yd ³ (108 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area6)	Design	384.6 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	21.4 yd ³ (42 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	85.5 yd ³ (165 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area7)	Design	187.1 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	10.4 yd ³ (20 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	41.6 yd ³ (80 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area8)	Design	220.2 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	12.2 yd ³ (24 Ton)

Pavement: 3/4" Crushed Aggregate			8.0 in	48.9 yd ³ (94 Ton)
Asphalt Light Duty 2-8 (Light Asphalt area9)	Design	188.9 yd ² (plan)		
Pavement: Light Duty Asphalt			2.0 in	10.5 yd ³ (21 Ton)
Pavement: 3/4" Crushed Aggregate			8.0 in	42 yd ³ (81 Ton)
Asphalt Heavy Duty 3-9 (Heavy Asphalt area)	Design	3639.6 yd ² (plan)		
Pavement: Heavy Duty Asphalt			3.0 in	303.3 yd ³ (583 Ton)
Pavement: 3/4" Crushed Aggregate			9.0 in	909.9 yd ³ (1748 Ton)
Asphalt Heavy Duty 3-9 (Heavy Asphalt area1)	Design	1448.7 yd ² (plan)		
Pavement: Heavy Duty Asphalt			3.0 in	120.7 yd ³ (232 Ton)
Pavement: 3/4" Crushed Aggregate			9.0 in	362.2 yd ³ (696 Ton)
Asphalt Heavy Duty 3-9 (Heavy Asphalt area25)	Design	1917.2 yd ² (plan)		
Pavement: Heavy Duty Asphalt			3.0 in	159.8 yd ³ (307 Ton)
Pavement: 3/4" Crushed Aggregate			9.0 in	479.3 yd ³ (921 Ton)
Area of Interest: Street Curb & Entrance				
Asphalt Heavy Duty 3-9 (Heavy Asphalt area1)	Design	1.8 yd ² (plan)		
Pavement: Heavy Duty Asphalt			3.0 in	0.1 yd ³ (1 Ton)
Pavement: 3/4" Crushed Aggregate			9.0 in	0.4 yd ³ (1 Ton)
Asphalt Heavy Duty 3-9 (Heavy Asphalt area24)	Design	76.2 yd ² (plan)		
Pavement: Heavy Duty Asphalt			3.0 in	6.3 yd ³ (13 Ton)
Pavement: 3/4" Crushed Aggregate			9.0 in	19 yd ³ (37 Ton)

Length with Cross-Sectional Area-Based Site Improvements

Site Improvement Name	Takeoff Category	Length	Cross-Sectional Area	
Material Category: Name		Material Volume		
Site Improvement Category: Pavement				
Area of Interest: New Addition & Parking				
Curb and Gutter	Design	386.9 ft (plan)	180.0 in ²	
Pavement: Curb Concrete				17.9 yd ³
Area of Interest: Parking Lot area				
Curb and Gutter	Design	3569.2 ft (plan)	180.0 in ²	
Pavement: Curb Concrete				165.2 yd ³
Area of Interest: Street Curb & Entrance				
Curb and Gutter	Design	1196.6 ft (plan)	180.0 in ²	
Pavement: Curb Concrete				55.4 yd ³

Length-Based Site Improvements

Site Improvement Name	Takeoff Category	Length
Material Category: Name		
Site Improvement Category: Storm Drainage		
Area of Interest: Parking Lot area		
18" RCP	Utilities	295.2 ft (plan)
Utilities: 18" RCP Storm Drain		296.0 ft (37 Stick)
24" RCP	Utilities	110.2 ft (plan)
Utilities: 24" RCP Storm Drain		111.0 ft (14 Stick)
42" RCP	Utilities	184.7 ft (plan)
Utilities: 42" RCP Storm Drain		184.7 ft

Count-Based Site Improvements

Site Improvement Name	Takeoff Category	Count
Site Improvement Category: Storm Drainage		
Area of Interest: Parking Lot area		
Storm Drainage Catch Basins 4'-8'	Utilities	10

Material Quantity Summary

Material Category: Name	Quantity	Supplemental Unit Conversion Factor
Pavement: 3/4" Crushed Aggregate	3174.5 yd ³ (6110 Ton)	1 yd ³ = 1.92 Ton
Pavement: Concrete	169 yd ³	---
Pavement: Curb Concrete	238.5 yd ³	---
Pavement: Heavy Duty Asphalt	694.2 yd ³ (1336 Ton)	1 yd ³ = 1.92 Ton
Pavement: Light Duty Asphalt	250.5 yd ³ (493 Ton)	1 yd ³ = 1.92 Ton
Utilities: 18" RCP Storm Drain	296.0 ft (37 Stick)	1 Stick = 8 ft
Utilities: 24" RCP Storm Drain	111.0 ft (14 Stick)	1 Stick = 8 ft
Utilities: 42" RCP Storm Drain	184.7 ft	---

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