

Customer: <b>New Horizon Academy</b>	Address: <b>Vacant Lot, Parker, CO</b>		
Owner: <b>New Horizon Academy</b>			
Type of Occupancy: <b>Daycare Center</b>	Prepared by: <b>Amanda Kilbane</b>		
Legal Address: <b>Subdivision Douglas 234</b>	Filing: <b>6</b>	Lot: <b>11</b>	Block: <b>10</b>

**Use 2012 International Plumbing Code (2012 IPC)  
Commercial Property Sizing Water Service Lines and Meters**

Type of Unit	Residential (IPC Private)		Non-Residential (IPC Public)		X Number of Fixtures	= Extended Total
	Toilet		Toilet			
	Flush Tank	Flushometer Valve	Flush Tank	Flushometer Valve		
Bathroom group (Water Closet & Sink)	3.6	8	---	---	0	
Urinal, 1" Flushometer Valve	---	---	---	10	0	
Urinal, 3/4" Flushometer Valve	---	---	---	5	0	
Urinal, Flush Tank	---	---	---	3	0	
Water Closet, Flushometer Tank	2	2	2	2	16	32
Water Closet	2.2	6	5	10	0	
	Faucet		Faucet			
Bathtub		1.4		4	0	
Bidet		2		---	0	
Combination Fixture		3		---	0	
Kitchen Sink		1.4		4	2	8
Laundry Trays (1 to 3)		1.4		---	1	1.4
Lavatory		0.7 (qty 20)		2 (qty 3)	23	20
Hose Bibb		2.5		2.5	2	5
Service Sink		---		3	1	3
Hand Sink		1.4		1.4	19	26.6
	Automatic		Automatic			
Dishwashing Machine		1.4		---	1	1.4
Washine Machine (8 lb)		1.4		3	1	3
Washine Machine (15 lb)		---		4	0	
	Valve		Valve			
Drinking Fountain (3/8" Valve)		---		0.25	1	0.25
Shower Head		1.4		4	1	4
	Miscellaneous		Miscellaneous			

Total Fixture Value	105	0
Customer Peak Demand from Table E103.3 in International Plumbing Code	44.6	gpm
Add irrigation	0	gpm
Add fixed load	0	gpm
<b>TOTAL DEMAND</b>	<b>44.6</b>	<b>gpm</b>

**Notes:**

- 1) Use meter sizing table in AWWA-M22 for meter sizing, maximum 80% of meter capacity; 80% of capacity meter used.
- 2) For use with all new facilities. For renovations using existing facilities where new are added, follow 2009 uniform plumbing code, Appendix A.
- 3) Use Miscellaneous area for items not found on list. Provide back up information.
- 4) Fixed load include commercial dishmachine at maximum fill rate in GPM.
- 5) ECCV requires separate irrigation meters for commercial properties, unless variance is granted.

Customer: New Horizon Academy	Address:
Owner: New Horizon Academy	Vacant Lot, Parker, CO
Type of Occupancy: Daycare Center	Prepared by: Amanda Kilbane
Legal Address: Subdivision Douglas 234	Filing: 6 Lot: 11

**Use 2012 International Plumbing Code (2012 IPC)  
Commercial Property Sizing Sanitary Sewer Equivalents**

Type of Fixture	UPC Units		X	=
	Residential (IPC Private)	Residential (IPC Public)	# of Fixtures Use	Extended Total
Automatic Clothes Washers	2	3	1	3
Bathroom Group (1.6 gpf water closet)	5	5	0	
Bathroom Group (water closet flushing larger than 1.6 gpf)	6	6	0	
Bathtub	2	2	0	
Bidet	1	1	0	
Combination Sink and Tray	2	2	1	2
Dental Lavatory	1	1	0	
Dental Unit or Cuspidor	1	1	0	
Dishwashing Machine	2	2	1	2
Drinking Fountain	---	0.5	1	0.5
Emergency Floor Drain	0	0	14	0
Floor Drains *a	*a	*a	0	
Floor Sinks *a	*a	*a	4	8
Kitchen Sink	2	---	2	4
Kitchen Sink, with Food Waste Grinder and/or Dishwasher	2	---	0	
Laundry Tray (1 or 2 compartments)	2	2	1	2
Lavatory	1	1	23	23
Shower (5.7 gpm or less)	2	2	1	2
Shower (5.7 gpm to 12.4 gpm)	3	3	0	
Shower (12.3 gpm to 25.8 gpm)	5	5	0	
Shower (25.8 gpm to 55.6 gpm)	6	6	0	
Service Sink	2	2	1	2
Sink	2	2	19	38
Urinal	4	4	0	
Urinal, 1 gallon per flush or less	2	2	0	
Urinal, nonwater supplied	1/2	1/2	0	
Wash Sink (Circular or Multiple) each a set of faucets	2	2	0	
Water Closet, Flushometer Tank	4	4	16	64
Water Closet (1.6 gpf)	3	4	0	
Water Closet (Flushing greater than 1.6 gpf)	4	6	0	
Total Fixture Value				150.5 0

\*a: The drainage fixture unit load of an indirect waste receptor receiving the discharge of indirectly connected fixtures shall be the sum of the drainage fixture unit valves of the fixtures that discharge to the receptor, but no less than 2. Where waste receptors receive only clear-water, such receptors shall have a drainage fixture unit valve of 1/2.

**Note:**

1) For use with all new facilities. For renovations using existing facilities where new are added, follow 2009 uniform plumbing code, Appendix A.