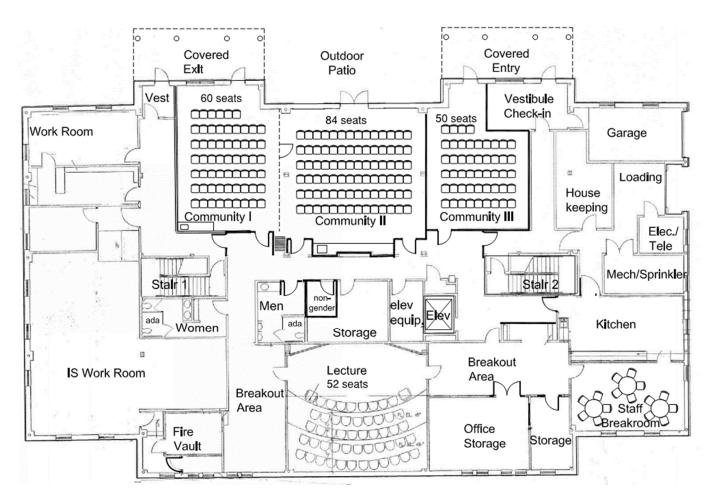
# PROJECT NOTES HUDSON ADMINISTRATION CENTER, PASCO BUILDING SPACE UTILIZATION STUDY PROJECT NO. 17087

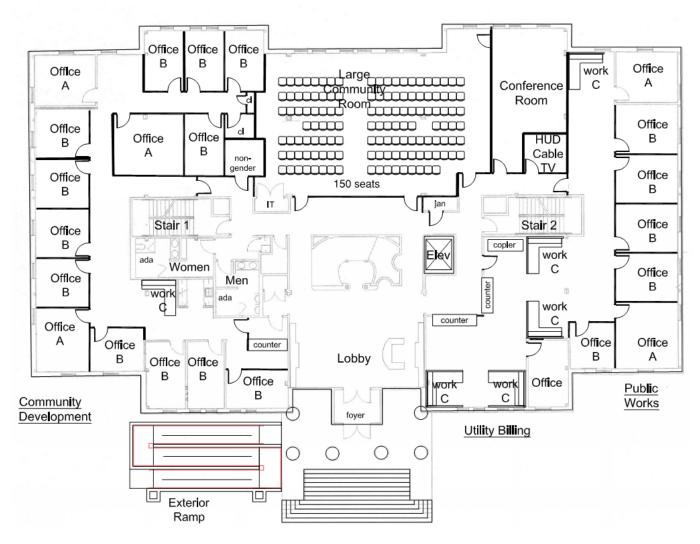
#### OCCUPANCY AND RESTROOM COUNTS



JUNE 23, 2017

- 1. Occupancy and Plumbing Fixture Counts
  - a. The challenge is both working within the confines of an existing building as well as justifying occupancy counts based on actual numbers versus the calculations required by code.
  - b. See attached Concept Building Space Program that reflects the Concept Diagrams prepared for the space utilization study.
    - i. There is a column for occupancy based on calculations from the 2015 OBC, as well as a column for actual or posted occupancy.
    - ii. The total occupancy using the OBC calculations is 881 persons.
    - iii. The anticipated actual or posted occupancy is 578 persons.
      - 1. These numbers for office areas reflect staff counts per offices or individual workstations.
      - 2. These numbers for community rooms reflect actual seating layouts see below.





c. Plumbing Fixture Counts: There are also two different uses in the building: A3 for community rooms and B for the remainder. The areas of A3 are 15% of the total. If they were 10% or less, they would be an accessory use to the B (Business) use.

i. Plumbing Fixture Requirements for A3 are:

Men's water closets: 1:125 Women's water closets: 1:65 Lavatories: 1:200

ii. Plumbing Fixture Requirements for B are:

Men's water closets: 1:50
Women's water closets: 1:50
Lavatories: 1:80

iii. If we use the actual/posted occupancies recommended, the following counts apply, and the planned fixtures are adequate:

	WC reg'd	WC actual	<u>Lav req'd</u>	<u>Lav actual</u>
Men	5	7	3	3
Women/Non-gender	6	8	3	8

iv. If we use the occupancy determined strictly from the code area calculations, we will need 1 more men's toilets, 2 more women's toilets, and 2 more men's lavs in the building.

	WC req'd	WC actual	<u>Lav reg'd</u>	<u>Lav actual</u>
Men	8	7	5	3
Women/Non-gender	10	8	5	8

v. The other consideration is that the community rooms may not be in use at the same time that the staff offices will be occupied. In that case we may be able to argue non-concurrent use and provide for the most restrictive use.

#### 2. Accessible Restrooms

- a. 2015 OBC Chapter 11 Accessibility, 1109.2 Toilet and Bathing Facilities states: "Each toilet room and bathing room shall be accessible."
- b. 2015 OBC Plumbing Code, Section 403.3.3 States:
  - "Location of toilet facilities in occupancies other than malls. In occupancies other than covered and open mall buildings, the required public and employee toilet facilities shall be located not more than one story above or below the space required to be provided with toilet facilities, and the path of travel to such facilities shall not exceed a distance of 500 feet."
    - i. Following this code statement, we could argue that since restrooms are not required for each floor, having those restrooms accessible may not be required. In that case we would recommend providing accessible restrooms on the two public floors: Lower Level and First Floor. HOWEVER since there are restroom provided on each floor, the code official may require that each be accessible.
    - ii. The space utilization plan allowed for each floor to have accessible restrooms.

### 3. RECOMMENDATION:

a. We recommend that the city provide the fixture count required for the actual or posted occupancy. We also recommend that each restroom is made to be handicapped accessible.



## CONCEPT BUILDING SPACE PROGRAM Hudson Administration Center Hudson, Ohio

				Program Net	Program Net	Occupant	Occupants	Posted/Actual
Space	Description	Notes	Qty	(Each)	(Total)	Load/sf	by Code	Occupants
1.00	GROUND FLOOR							
1.01	Vestibule 1		1	50	50			
	Vestibule/Check-in		1	180	180			
	Stair 1		1	160	160			
	Stair 2		1	170	170			
	Elevator		1	56	56			
	Elevator Equip		1	98	98			
	Garage		1	250	250	300	1	1
	Loading Area		1	130	130	300	1	1
1.08	Elec/Tele		1	80	80	300	1	1
1.08	Mechanical		1	150	150	300	1	1
1.08	Housekeeping		1	228	228	300	1	1
1.09	IS Work Room		1	1,353	1,353	300	5	5
1.09	IS Office		1	140	140	100	1	1
1.10	Fire Vault		1	130	130	300	1	1
1.11	Restrooms							
	Men	ADA 1 Toilet, 2 Urinals, 1 sinks	1	140	140			
	Women	ADA 2 Toilets, 2 sinks	1	160	160			
	Non-gender	ADA 1 toilet, 1 sink	1	60	60			
1.12	Work Room		1	286	286	100	3	0
1.13	Copy Room		1	200	200	100	2	0
1.14	Lecture Room	Tiered seating: 52 at chairs	1	896	896		52	52
1.15	Breakout Area 1	Adjacent to Lecture Room	1	360	360			
1.16	Breakout Area 2	Adjacent to Lecture Room	1	360	360			
1.17	Office Storage		1	354	354	300	1	1
1.17	Storage		1	150	150	300	1	1
1.18	Staff Break Room		1	380	380	15	25	18
1.19	Kitchen		1	360	360	100	4	4
1.20	Community Room 1	Capacity: 60 at chairs	1	714	714	7	102	60
1.21	Community Room 2	Capacity: 84 at chairs	1	930	930	7	133	84
1.22	Community Room 3	Capacity: 50 at chairs	1	620	620	7	89	50
1.23	Storage		1	180	180	300	1	1
				let Square Footage			423	283
				ation, Walls, Chases	2,722 12,047			
0.00	FIRST FLOOR		30Diolai Gi	oss square rootage	12,047			
2.00	FIRST FLOOR							
2.01	Vestibule		1	76	76			
	Lobby/Reception	Reception Desk	1	317	317	7	45	45
	Stair 1		1	158	158			
2.04	Stair 2		1		170			
2.05				170				
	Elevator		1	170 56	56			
	Restrooms		1	56	56			
	Restrooms Men	ADA 1 Toilet, 2 Urinals, 1 sinks	1	130	56 130			
	Restrooms Men Women	ADA 2 Toilets, 2 sinks	1 1	130 160	130 160			
2.06	Restrooms  Men  Women  Non-gender		1	130	130 160 60			
2.06	Restrooms  Men  Women  Non-gender  Utility/Billing	ADA 2 Toilets, 2 sinks	1 1 1	130 160 60	130 160 60 <b>593</b>	100	6	3
2.06	Restrooms  Men  Women  Non-gender  Utility/Billing  Private Office	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink	1 1 1	130 160 60	56 130 160 60 <b>593</b> 137	100	6	3
2.06	Restrooms  Men  Women  Non-gender  Utility/Billing  Private Office  Work Area / Workstations	ADA 2 Toilets, 2 sinks	1 1 1	130 160 60	56 130 160 60 <b>593</b> 137 456		-	
2.06	Restrooms  Men  Women  Non-gender  Utility/Billing  Private Office  Work Area / Workstations  Public Works	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink	1 1 1 1 1 1 1	130 160 60 137 456	56  130 160 60 593 137 456 622	100	6	3
2.06	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56 130 160 60 137 456	56  130 160 60 593 137 456 622 109		-	
2.06	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink	1 1 1 1 1 1 1	130 160 60 137 456	56  130 160 60 593 137 456 622 109 513	100	6	3
2.06	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter	1 1 1 1 1 1 1 1 1 1 1	56 130 160 60 137 456 109 513	56  130 160 60 593 137 456 622 109 513 1,320		-	
2.06	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	130 160 60 137 456 109 513	56  130 160 60 593 137 456 622 109 513 1,320 200	100	6	3
2.06	Restrooms  Men  Women  Non-gender  Utility/Billing  Private Office  Work Area / Workstations  Public Works  Private Office  Work Area / Workstations  Administrative Support  Private Office A  Private Office B	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 5	130 160 60 137 456 109 513	56  130 160 60 593 137 456 622 109 513 1,320 200 600	100	6	3
2.07	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	130 160 60 137 456 109 513	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520	100	6	7
2.07	Restrooms  Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter	1 1 1 1 1 1 1 1 1 1 1 5	56  130 160 60  137 456  109 513  200 120 520	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189	100	6	3
2.07	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter	1 1 1 1 1 1 1 1 1 1 5 1	56  130 140 60  137 456  109 513  200 120 520	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189	100	6	7
2.07	Restrooms  Men  Women  Non-gender  Utility/Billing  Private Office  Work Area / Workstations  Public Works  Private Office  Work Area / Workstations  Administrative Support  Private Office A  Private Office B  Work Area / Workstation  Community Development  Public Counter  Private Office A	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter	1 1 1 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	56  130 160 60  137 456  109 513  200 120 520  135 160	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135	100	6	7
2.07	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter Private Office A Private Office A	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation	1 1 1 1 1 5 5 1 1 1 1 4	56  130 160 60  137 456  109 513  200 120 520  135 160 130	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520	100	6	7
2.07	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter Private Office A Private Office B Work Area / Workstation	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter	1 1 1 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	56  130 160 60  137 456  109 513  200 120 520  135 160	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374	100	13	7
2.07	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter Private Office A Private Office B Work Area / Workstation	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation	1 1 1 1 1 1 5 1 1 1 4 1 1	56  130 160 60  137 456  109 513  200 120 520  135 160 130 374	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176	100	6	7
2.07	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter Private Office A Private Office A Private Office B Work Area / Workstation	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation	1 1 1 1 1 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1	56  130 160 60  137 456  109 513  200 120 520  135 160 130 374	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176 380	100	13	7
2.07	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter Private Office A Private Office B Work Area Engineering Private Office A Private Office B	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation	1 1 1 1 1 1 1 5 1 1 1 4 1 1 1 2 4 4	56  130 160 60  137 456  109 513  200 120 520  135 160 130 374	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176 380 520	100	13	7
2.07	Restrooms  Men  Women  Non-gender  Utility/Billing  Private Office  Work Area / Workstations  Public Works  Private Office  Work Area / Workstations  Administrative Support  Private Office A  Private Office B  Work Area / Workstation  Community Development  Public Counter  Private Office A  Private Office B  Work Area  Engineering  Private Office A  Private Office B  Private Office B  Private Office A  Private Office B  Private Office B  Private Office B  Private Office B  Private Office C	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation	1 1 1 1 1 1 1 5 1 1 1 1 4 1 1 2 4 4 4 4	56  130 140 60  137 456  109 513  200 120 520  135 160 130 374  190 130 124	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176 380 520 496	100	13	7
2.07	Restrooms  Men  Women  Non-gender  Utility/Billing  Private Office  Work Area / Workstations  Public Works  Private Office  Work Area / Workstations  Administrative Support  Private Office A  Private Office B  Work Area / Workstation  Community Development  Public Counter  Private Office A  Private Office B  Work Area  Engineering  Private Office A  Private Office B  Private Office B  Private Office A  Private Office B  Work Area  Engineering  Private Office B  Private Office C  Work Area	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56  130 140 60  137 456  109 513  200 120 520  135 160 130 374  190 130 124 630	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176 380 520 496 630	100	13	7
2.07 2.07 2.07 2.10	Restrooms  Men  Women  Non-gender  Utility/Billing  Private Office  Work Area / Workstations  Public Works  Private Office  Work Area / Workstations  Administrative Support  Private Office A  Private Office B  Work Area / Workstation  Community Development  Public Counter  Private Office A  Private Office B  Work Area  Engineering  Private Office A  Private Office B  Private Office B  Private Office C  Work Area  Secure Storage	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation	1 1 1 1 1 1 1 5 1 1 1 1 4 1 1 2 4 4 4 4	56  130 140 60  137 456  109 513  200 120 520  135 160 130 374  190 130 124	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176 380 520 496 630 1,50	100	13	7
2.07	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter Private Office A Private Office B Work Area / Workstation Community Development Private Office B Private Office A Private Office B Work Area Engineering Private Office B Private Office B Private Office C Work Area Secure Storage Meeting Rooms	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56  130 160 60  137 456  109 513  200 120 520  135 160 130 374  190 130 124 630 75	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176 380 520 496 630 150 2,240	100	13	7
2.07 2.07 2.07 2.10	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter Private Office A Private Office B Work Area Counter Private Office A Private Office B Work Area Engineering Private Office A Private Office C Work Area Secure Storage Meeting Rooms Large Community Room	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation  1 workstation  Capacity: 150 at chairs	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56  130 160 60  137 456  109 513  200 120 520  135 160 130 374  190 130 124 630 75	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176 380 520 496 630 150 2,240	100	13 12 22 243	7 7 11 11
2.07 2.07 2.07 2.10	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter Private Office A Private Office B Work Area / Workstation Community Development Private Office B Private Office A Private Office B Work Area Engineering Private Office B Private Office B Private Office C Work Area Secure Storage Meeting Rooms	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation	1 1 1 1 1 1 1 5 1 1 1 4 1 1 2 4 4 4 1 1 2 2 1 1 1 1 1	56  130 160 60  137 456  109 513  200 120 520  135 160 130 374  190 130 124 630 75  1,700 540	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176 380 520 496 630 150 2,240 1,700 540	100	6 13 12 22 243 36	7 7 11 150 30
2.07	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter Private Office A Private Office B Work Area Counter Private Office A Private Office B Work Area Engineering Private Office A Private Office C Work Area Secure Storage Meeting Rooms Large Community Room	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation  1 workstation  Capacity: 150 at chairs Capacity: 30 at table	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56  130 160 60  137 456  109 513  200 120 520  135 160 130 374  190 130 124 630 75  1,700 540  let Square Footage	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176 380 520 496 630 150 2,240 1,700 540	100	13 12 22 243	7 7 11 11
2.07 2.07 2.07 2.10	Restrooms Men Women Non-gender Utility/Billing Private Office Work Area / Workstations Public Works Private Office Work Area / Workstations Administrative Support Private Office A Private Office B Work Area / Workstation Community Development Public Counter Private Office A Private Office B Work Area Counter Private Office A Private Office B Work Area Engineering Private Office A Private Office C Work Area Secure Storage Meeting Rooms Large Community Room	ADA 2 Toilets, 2 sinks ADA 1 toilet, 1 sink  2 workstations, public counter  2 workstations, public counter  1 workstation  1 workstation  Capacity: 150 at chairs Capacity: 30 at table	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56  130 160 60  137 456  109 513  200 120 520  135 160 130 374  190 130 124 630 75  1,700 540	56  130 160 60 593 137 456 622 109 513 1,320 200 600 520 1,189 135 160 520 374 2,176 380 520 496 630 150 2,240 1,700 540 9,267 2,685	100	6 13 12 22 243 36	7 7 11 150 30

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Space	e Description	Notes	Qty	Program Net (Each)	Program Net (Total)	Occupant Load/sf	Occupants by Code	Posted/Actua Occupants
3.00	SECOND FLOOR							
3.01	Stair 1		1	158	158			
3.02	Stair 2		1	170	170			
3.03	Elevator		1	56	56			
3.04	Restrooms							
	Men	ADA 1 Toilet, 1 sink	1	80	80			
	Women	ADA 1 Toilet, 1 sink	1	80	80			
3.05	City Manager				798	100	8	3
	Private Office A		1	267	267			
	Private Office B		1	180	180			
	Private Restroom	1 toilet, 1 sink	1	26	26			
	Workstation/Circulation		1	325	325			
3.08	Administrative Directors				1,083	100	11	6
	Private Office A		2	200	400			
	Private Office B		3	130	390			
	Work Area/Circulation		1	293	293			
3.06	IS/Broad Band				1,588	100	16	7
	Private Office A		1	190	190			
	Private Office B		5	150	750			
	Work Area/Circulation		1	648	648			
3.07	Finance/HR				1,790	100	18	8
	Private Office A		1	190	190			
	Private Office B		5	150	750			
	Work Area/Circulation		1	520	520			
	Conference Room	Capacity: 12 at table	1	230	230			
	Secure Storage		1	100	100			
3.09	Conference Room	Capacity: 15 at table	1	336	336	15	22	15
			Subtotal N	let Square Footage	6,139		75	39
				Walls, Chases	2,129			
			Subtotal Gro	oss Square Footage	8,268			
			Total Gr	oss Square Footage	32,267		881	578

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# CONCEPT BUILDING SPACE PROGRAM: PLUMBING FIXTURES PER ACTUAL OCCUPANCY

PLUMBING FIXTURE COUNTS	<b>3</b>	wc rate M	wc rate W	lav rate	
use group A3		1:125	1:65	1:200	
use group B		1:50	1:50	1:80	
ACTUAL / POSTED OCCUPAN	ICY				
Ground Floor					
plumbing fixtures	occupants	wc rate	wc req	lav rate	lav req
men - A3	123	1:125	0.98	1:200	0.62
women - A3	123	1:65	1.89	1:200	0.62
men - B	19	1:50	0.37	1:80	0.23
women - B	19	1:50	0.37	1:80	0.23
men			1.35		0.85
women			2.26		0.85
1st floor					
plumbing fixtures	occupants	wc rate	wc req	lav rate	lav req
men - A3	75	1:125	0.60	1:200	0.38
women - A3	75	1:65	1.15	1:200	0.38
men - B	53	1:50	1.06	1:80	0.66
women - B	53	1:50	1.06	1:80	0.66
men			1.66		1.04
women			2.22		1.04
2nd floor					
plumbing fixtures	occupants	wc rate	wc req	lav rate	lav req
men	20	1:125	1	1:200	1
women	20	1:65	1	1:200	1
TOTAL BUILDING			closets	lavat	
		reqd	actual	reqd	actual
	men	4	7	3	3
	women	5	8	3	8

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# CONCEPT BUILDING SPACE PROGRAM: PLUMBING FIXTURES PER CODE AREA CALCULATIONS

PLUMBING FIXTURE C	OUNTS	wc rate M	wc rate W	lav rate	
use group A3		1:125	1:65	1:200	•
use group B		1:50	1:50	1:80	
CODE CALCULATIONS	8				
Ground Floor					
plumbing fixtures	occupants	wc rate	wc req	lav rate	lav req
nen - A3	188	1:125	2	1:200	1
women - A3	188	1:65	3	1:200	1
men - B	24	1:50	1	1:80	1
women - B	24	1:50	1	1:80	1
	men		3		2
1	women		4		2
st floor					
olumbing fixtures	occupants	wc rate	wc req	lav rate	lav req
nen - A3	121	1:125	2	1:200	1
vomen - A3	121	1:65	3	1:200	1
nen - B	70	1:50	2	1:80	1
vomen - B	70	1:50	2	1:80	1
	men		4		2
1	women		5		2
2nd floor					
olumbing fixtures	occupants	wc rate	wc req	lav rate	lav req
nen	37	1:125	1	1:200	1
/omen	37	1:65	1	1:200	1

	reqd	actual	reqd	actual
men	8	7	5	3
women	10	8	5	8

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