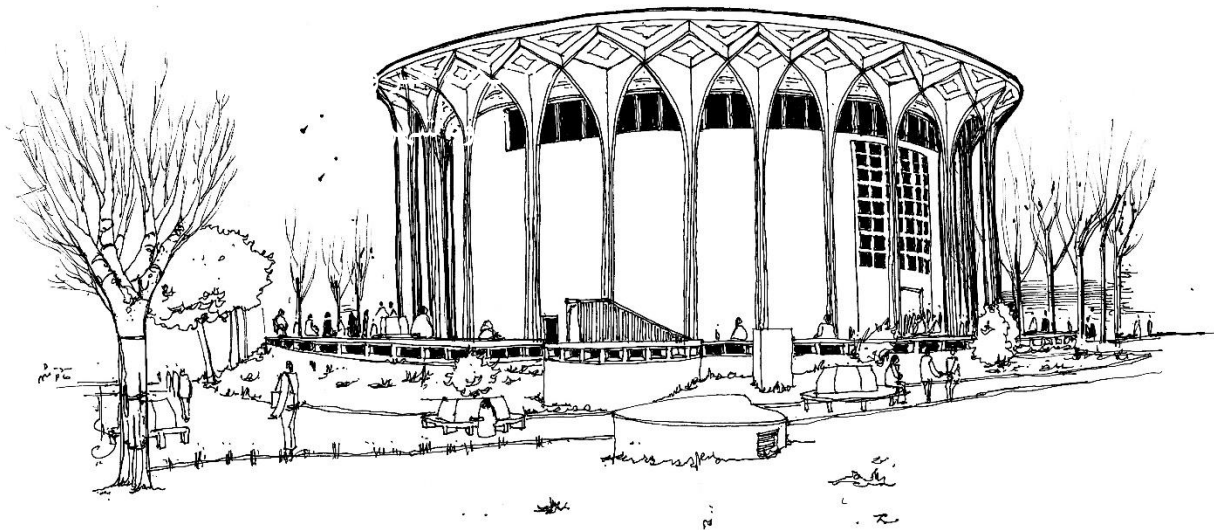




Tarbiat Modares University  
Faculty of Arts  
Department of Urban  
Planning

# Designing the Tehran Theatre Shahr Plaza and its surrounding spaces emphasizing on current activities



KAVEH BAGHBEH

ADVISOR:

PROF. MOHAMMADREZA POURJAFAR

CONSULTED BY:

Dr. EHSAN RANJBAR

APPROACHES

SITE  
INTRODUCTION

SITE  
RECOGNITION

OBSEVATION

ASSESSMENT

DESIGN

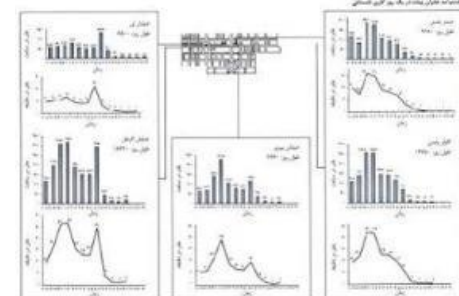
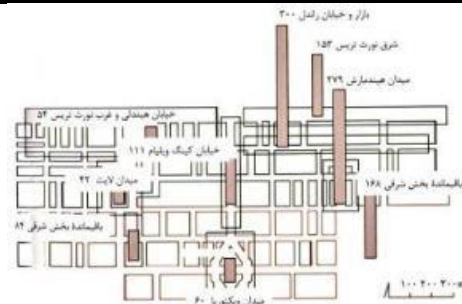
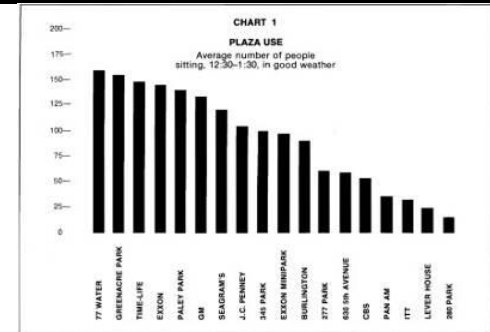
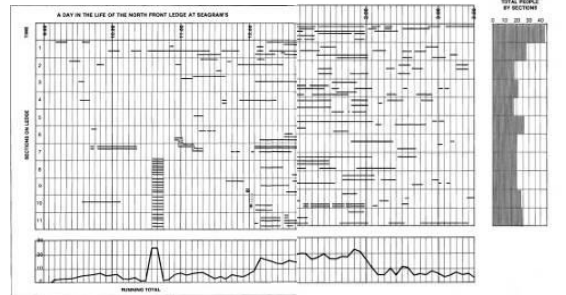
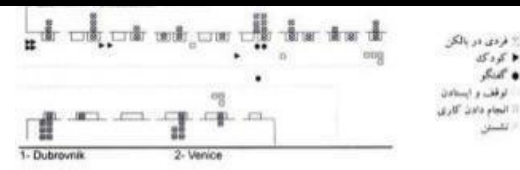
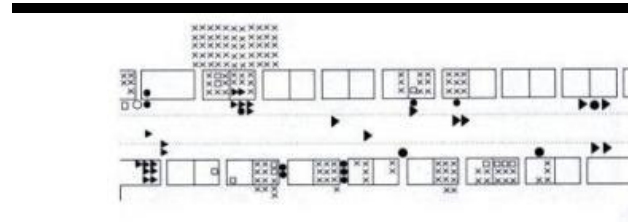
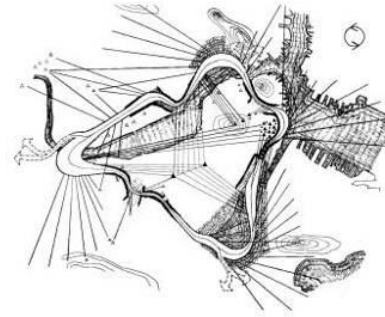
## Main questions of research:

- How are different activities effective on each other in a public space?
- How is the form of a public space related to the current activities in it?
- Is Theatre Shahr Plaza responsive to its current activities and to what people need in there?
- Emphasizing the relation between form and activities in a public space, What can we do as an urban designer to make Theatre Shahr Plaza useful, active and popular?

## Research Process:

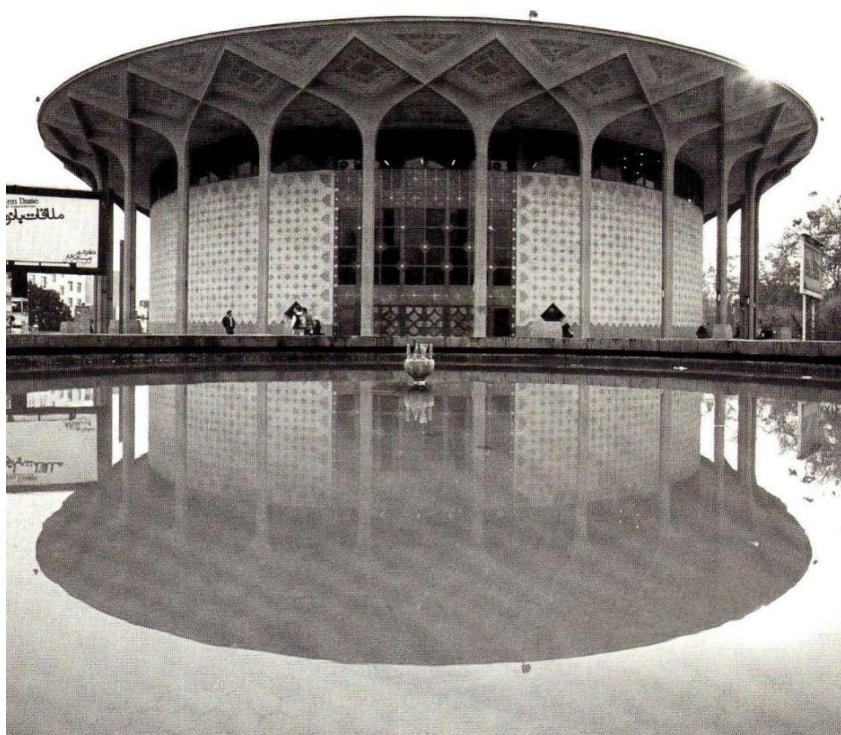
1. Understanding the types of activities and how they are done in public spaces
2. Exploring key attributes of a successful public plaza in relation to its activities
3. Analyzing formal and functional characteristics of Theatre Shahr Plaza
4. Observing current activities in this Plaza and assessing how much these activities occur
5. Valuation how responsive is the plaza to the assessed activities
6. Design public space in order to increase its responsiveness to the occurring activities in it

# Approaches in activity assessment in public spaces:





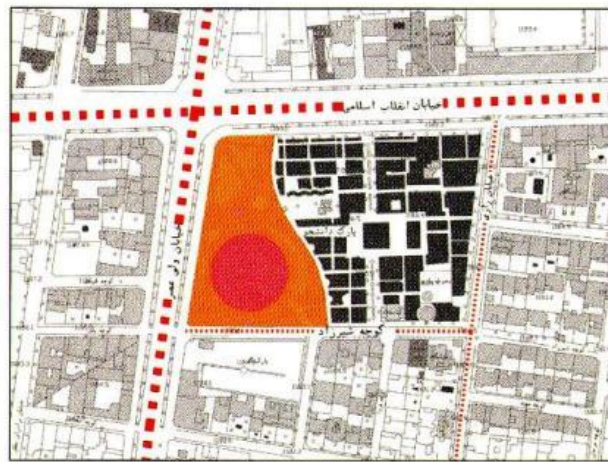
- **The City Theater** (Teātr-e Šahr) is a performing arts complex in Tehran, the capital of Iran. It was built with the initiative of Shahbanu Farah Pahlavi under the rule of Mohammad Reza Pahlavi, the last Shah of Iran.
- It contains several performance spaces including the halls of Charsou, Qashqai, Saye, and the main hall. The complex was designed by architect Ali Sardar Afkhami in the 1960s, and opened in 1972. After the 1979 Revolution, the Ministry of Culture and Islamic Guidance has overseen its operation.



EMPLOYER	Plan and Budget Organization of Iran
DESIGN	Ali Sardar Afkhami
Beneficiary	Ministry of Culture and Islamic Guidance
Construction date	1960
Functional land use	Cultural
Site area	27250 Square meter
Building lot area	5600 Square meter
Number of Slabs	4 floors (3 above ground and 1 basement)
Lot area ratio	30%
Building structure	Concrete frames and slabs



# INTRODUCTION



Main Access

Secondary Access

شریان اصلی  
دسترسی فرعی



The building is on the South east Corner of Vali-asr street junction with Enghelab Street.

The site is surrounded by Commercial plots on the north and west sides by the streets, Daneshju civic park at east and a local access at south.



Bulding Location

Residential

Educational

Administrative

Commercial

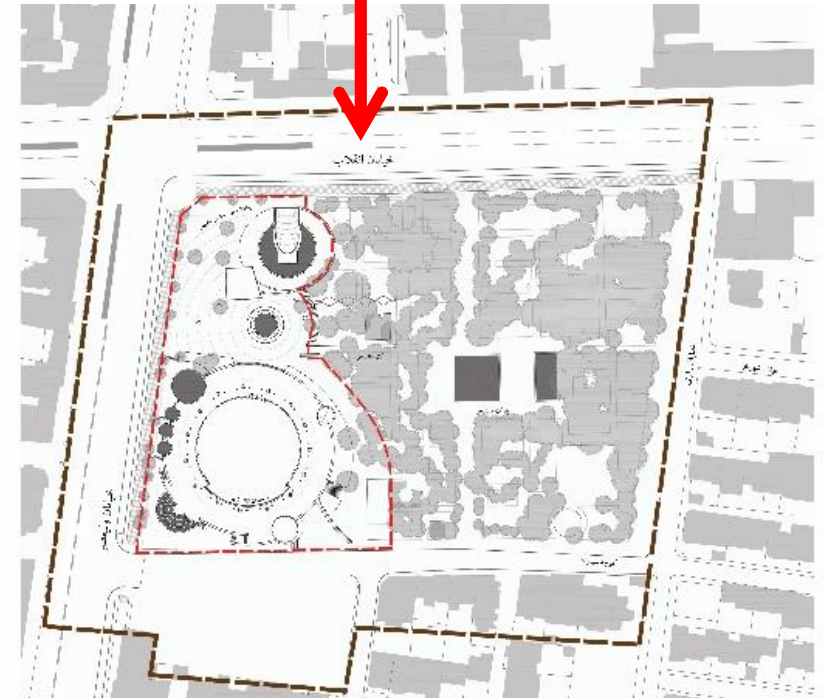
Green Zone

Commercial-Administrative

Site Location

Parking

موقعیت بنا  
کاربری مسکونی  
کاربری آموزشی  
کاربری اداری  
کاربری تجاری  
فضای سبز  
کاربری تجاری-اداری  
محدوده پیرامون بنا  
پارکینگ



محدوده پلازا  
محدوده پلافلور مؤثر

# SITE RECOGNITION

## Visual and Formal Elements

### Entrances

Main Entrance  
Park entrance  
Local access  
Theatre's western straight access  
other accesses

### Seats

Individual seats  
ledges

### Pathways

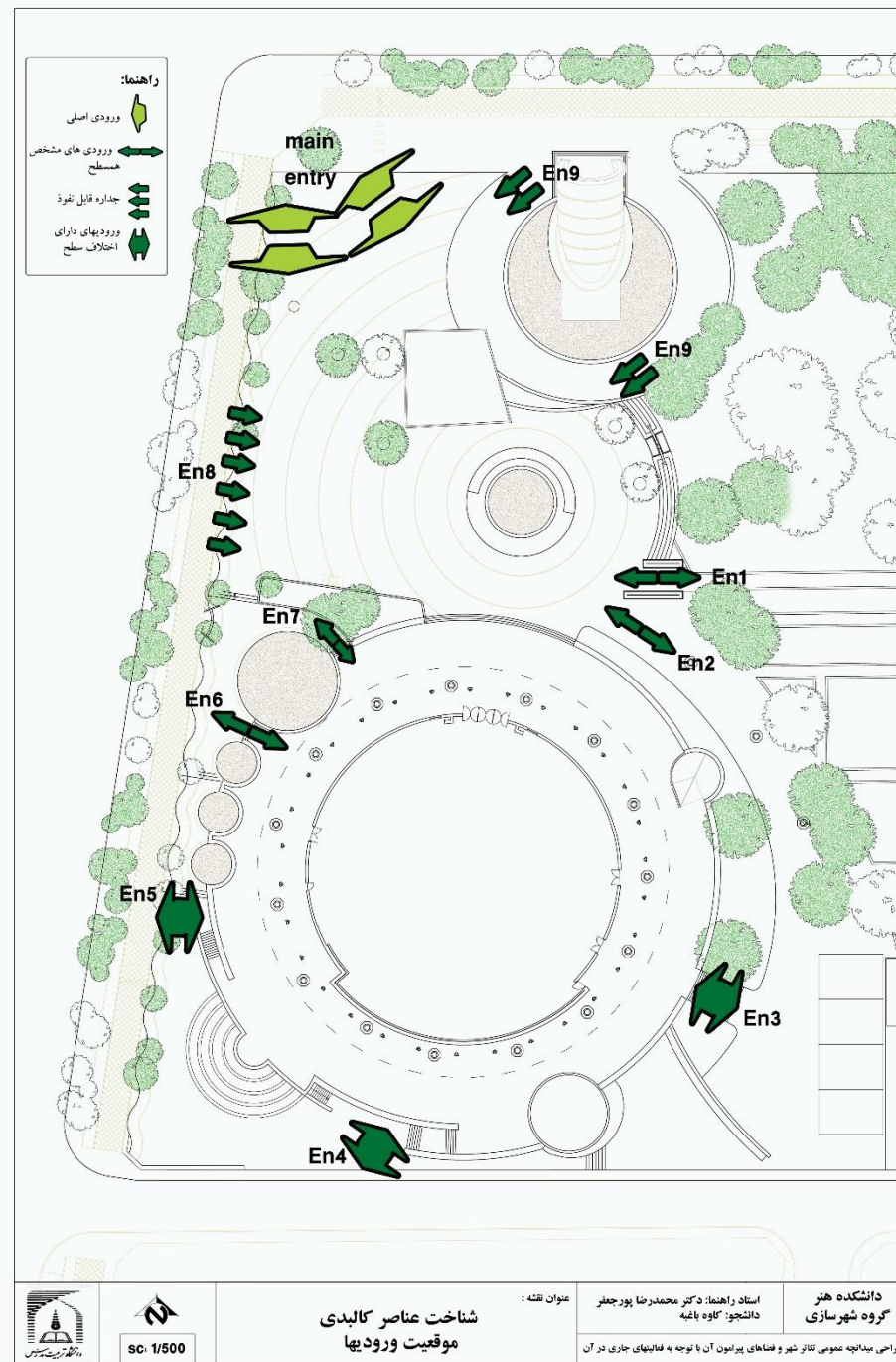
### Landmarks

Sculptures  
Main pool of the plaza  
Side pools on the western side

### Pavements and edges

Vali-asr street pedestrian  
Enghelab street pedestrian  
Front steps of theatre  
Building facades

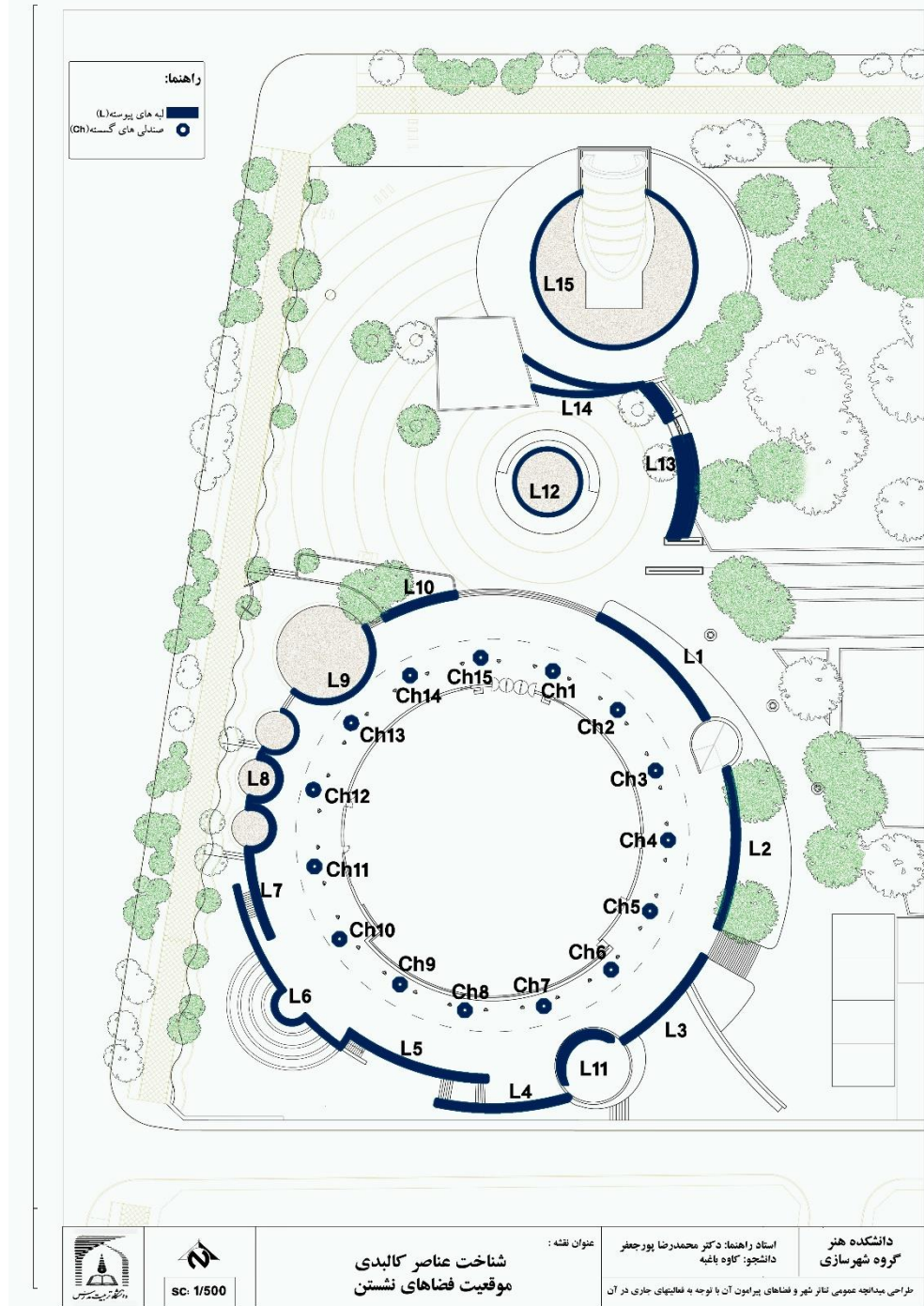
### Greens and Plantations





# SITE RECOGNITION

Visual and Formal Elements	Entrances	<div>Main Entrance</div> <div>Park entrance</div> <div>Local access</div> <div>Theatre's western straight access</div> <div>other accesses</div>
	Seats	<div>Individual seats</div> <div>ledges</div>
	Pathways	
	Landmarks	<div>Sculptures</div> <div>Main pool of the plaza</div> <div>Side pools on the western side</div>
	Pavements and edges	<div>Vali-asr street pedestrian</div> <div>Enghelab street pedestrian</div> <div>Front steps of theatre</div> <div>Building facades</div>
	Greens and Plantations	





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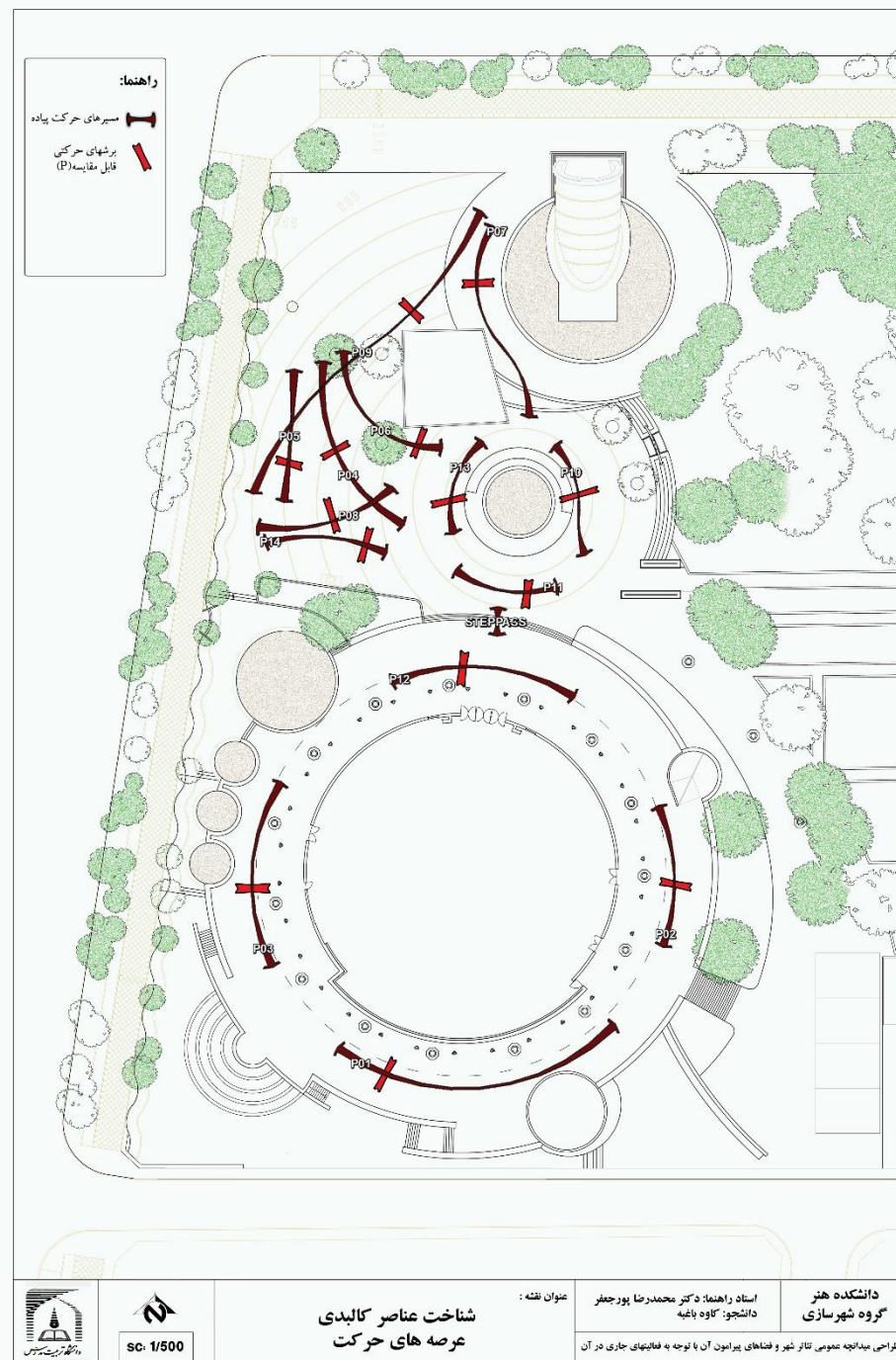
### Landmarks

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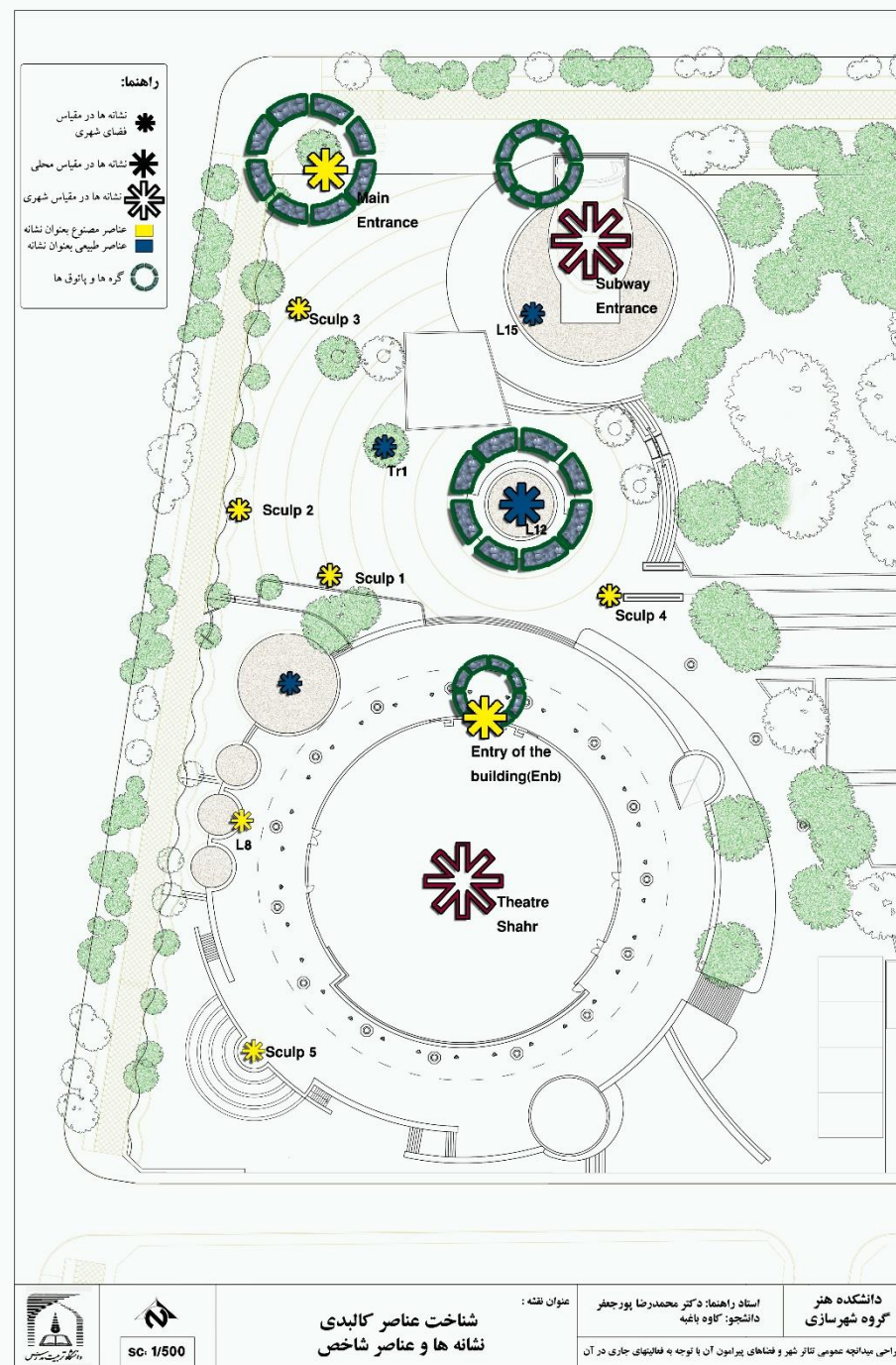
### Greens and Plantations



# SITE RECOGNITION

## Visual and Formal Elements

Entrances	Main Entrance
	Park entrance
	Local access
	Theatre's western straight access
	other accesses
Seats	Individual seats
	ledges
Pathways	
Landmarks	Sculptures
	Main pool of the plaza
	Side pools on the western side
Pavements and edges	Vali-asr street pedestrian
	Enghelab street pedestrian
	Front steps of theatre
	Building facades
Greens and Plantations	





# SITE RECOGNITION

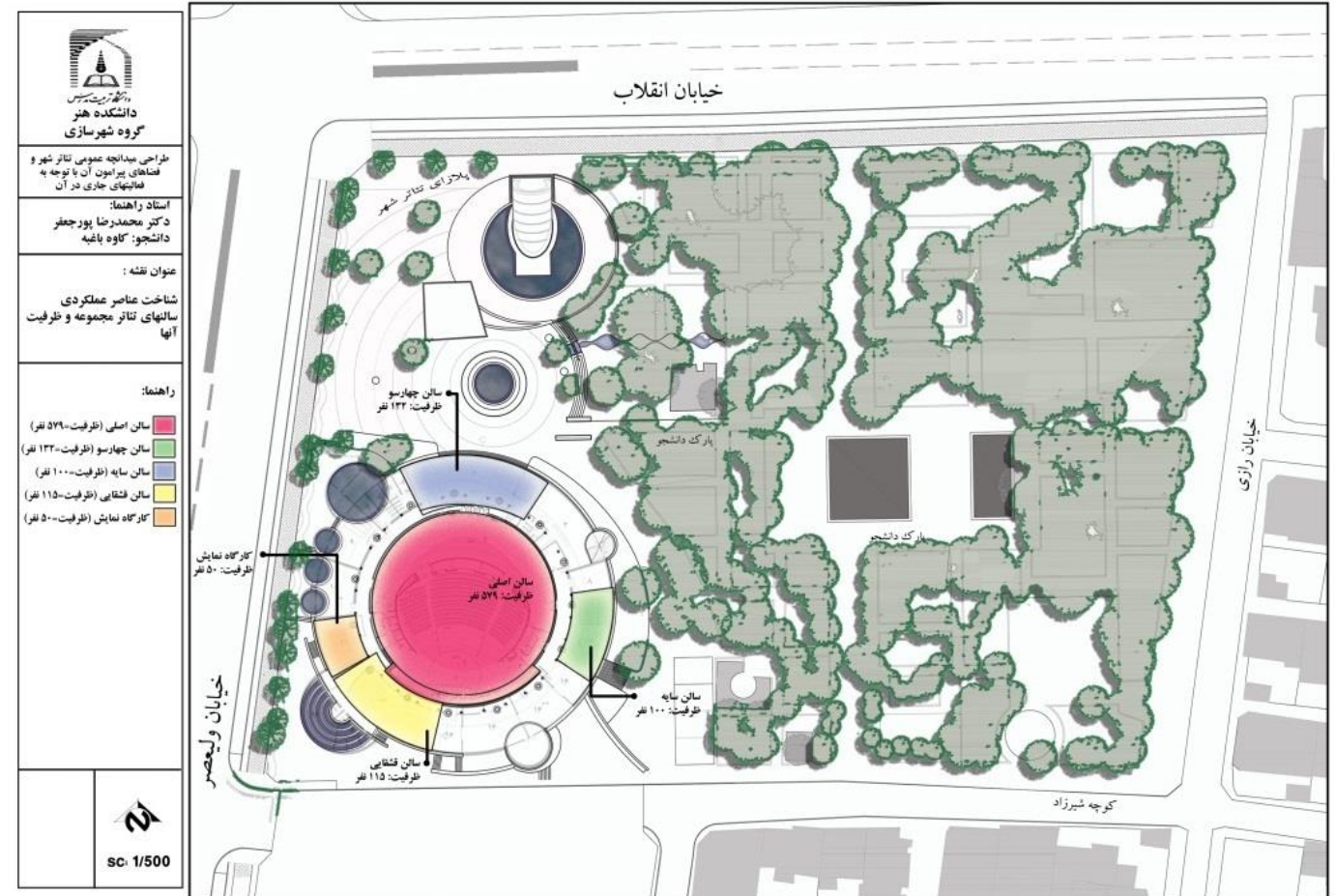
## Functional Elements

### Functions inside Plaza

- Main theatre hall
- Environmental performing arts
- Library and offices
- Seasonal outdoor galleries
- Food shops
- restrooms

### Surrounding Functions

- Daneshju Park
- Reza Computers and Notebooks shopping center
- Vali-asr Mosque
- Talare Vahdat Theatre
- Vali-asr long pedestrian aux
- Enghelab cultural aux





## SITE RECOGNITION

# Functional Elements

## Functions inside Plaza

Main theatre hall

## Environmental performing arts

Library and offices

## Seasonal outdoor galleries

Food shops

restrooms

## Surrounding Functions

Daneshju Park

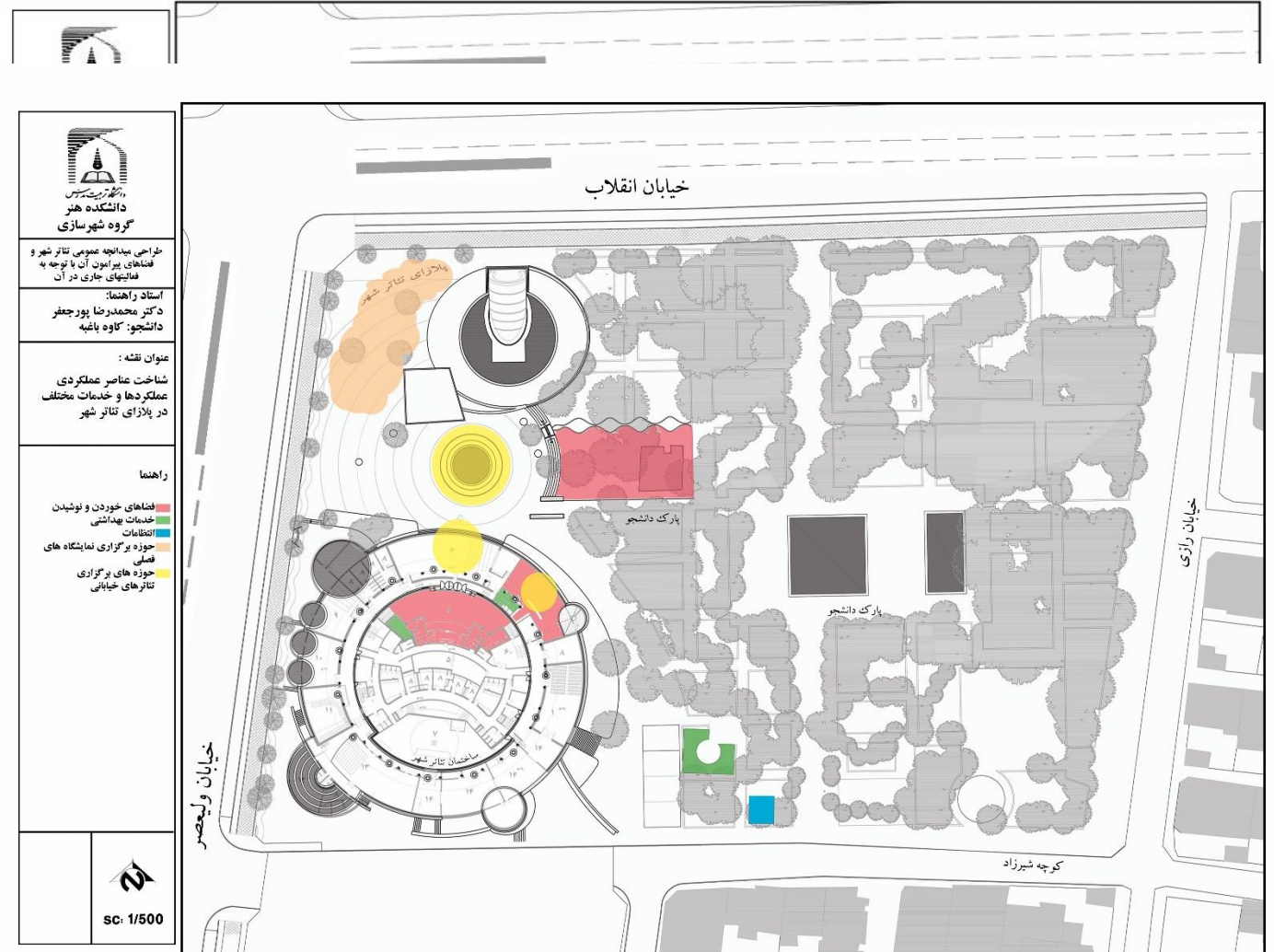
Reza Computers and Notebooks  
shopping center

## Vali-asr Mosque

Talare Vahdat Theatre

Vali-asr long pedestrian aux

Enghelab cultural aux



# SITE RECOGNITION

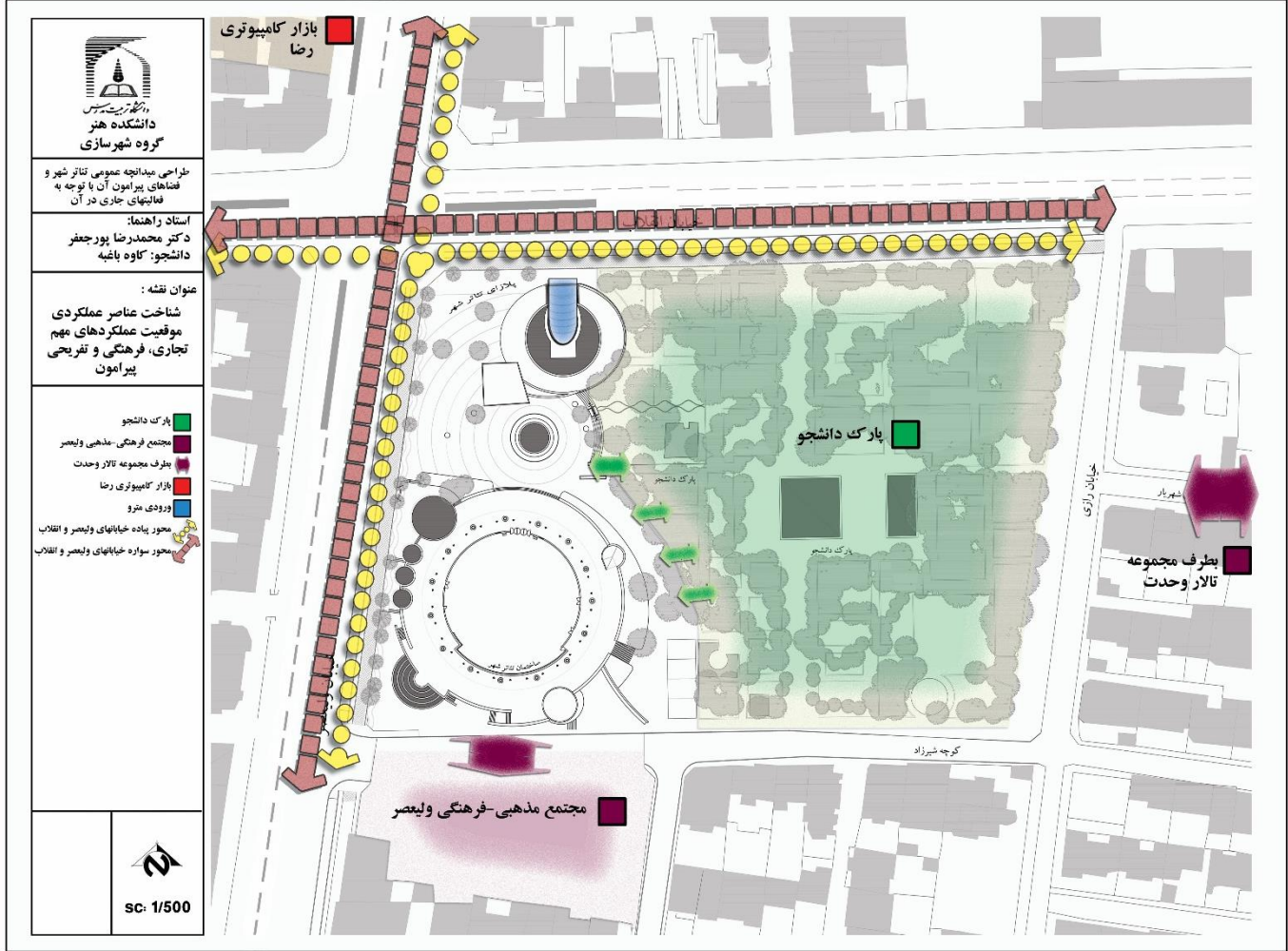
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# SITE RECOGNITION

## Perceptual Elements

### Identity of Place

Cultural Identity

Historical background

Social character

Memorable events

### Image of place

Formal legibility

Functional legibility

Enclosure

Spatial proportions

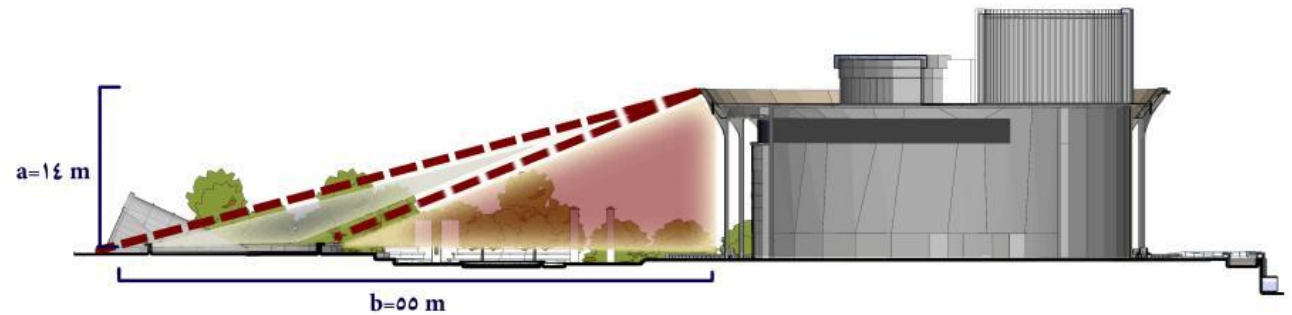
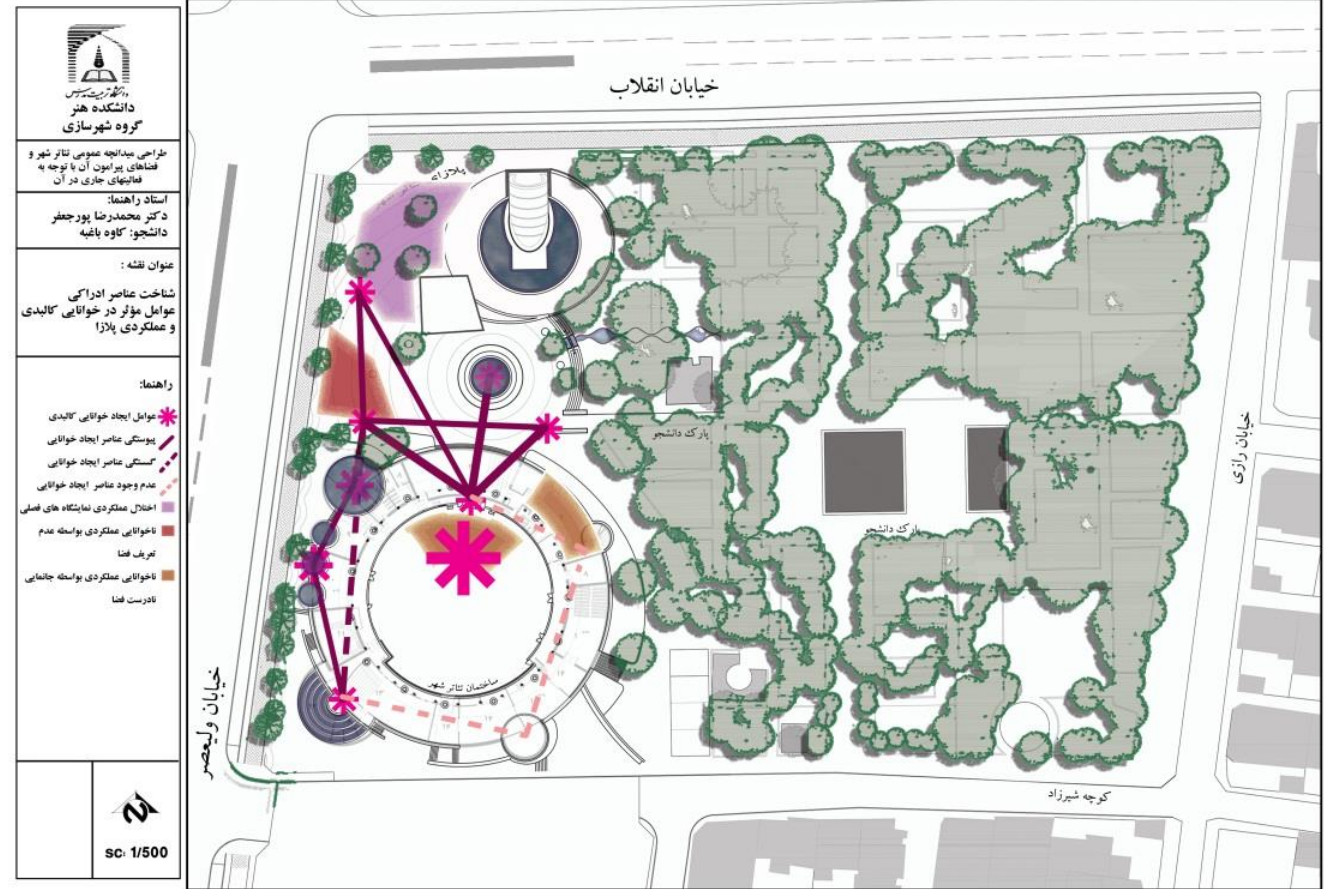
Orientation of place

### Mental Comfort

Protection from bad  
People

Protection from vehicles

Feeling safe from others  
and security officers





# SITE RECOGNITION

## Ecological and climatic Elements

Getting  
protected  
from bad  
weather

## Hot and cold weather

Dazzling sun

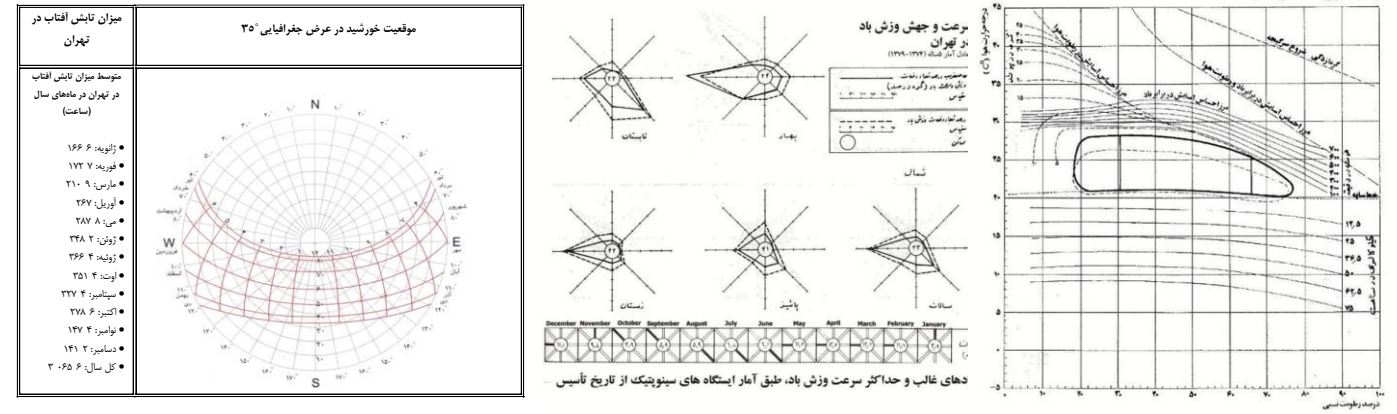
## Winds and blizzards

## Rain and snow

## Getting benefits of nice weathers

Mild sunshine and shadows

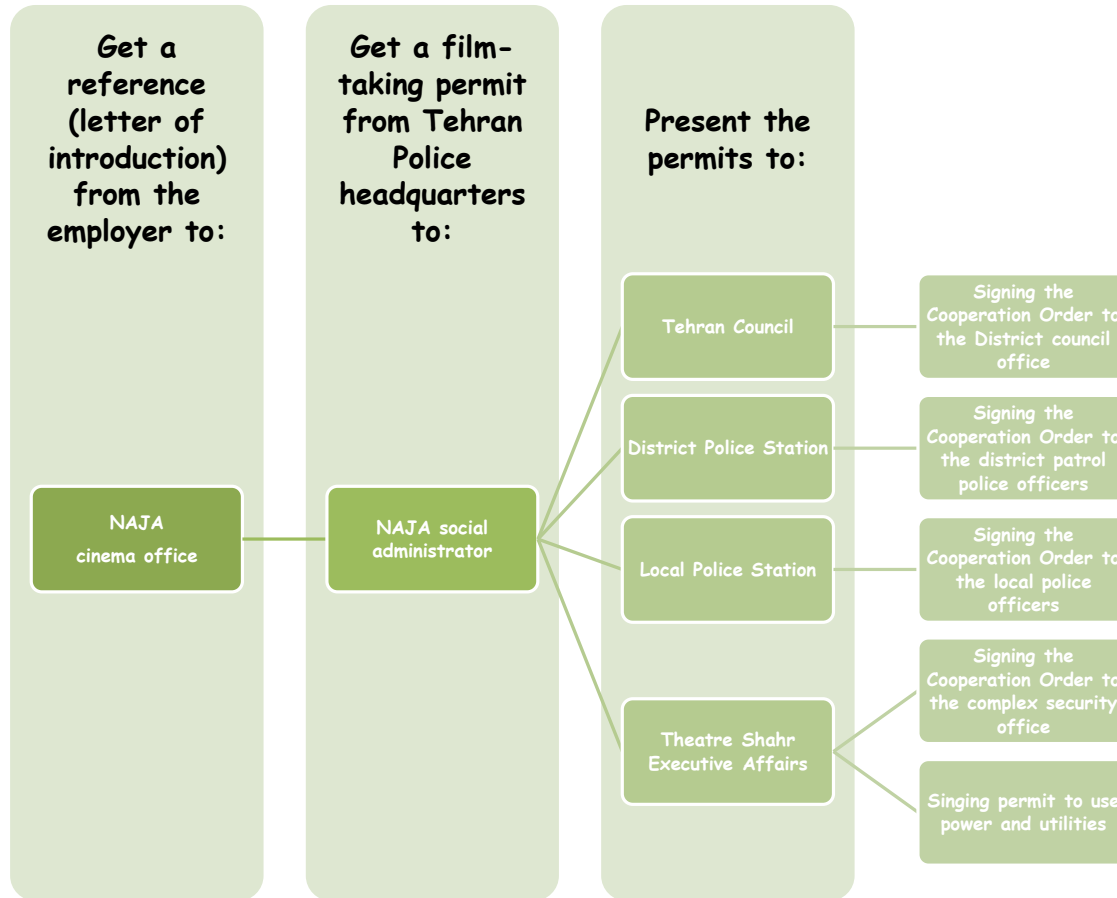
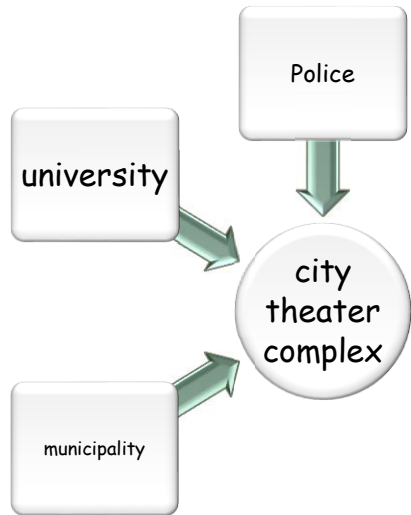
Mild breezes and natural ventilation



### Tehran weather (c)

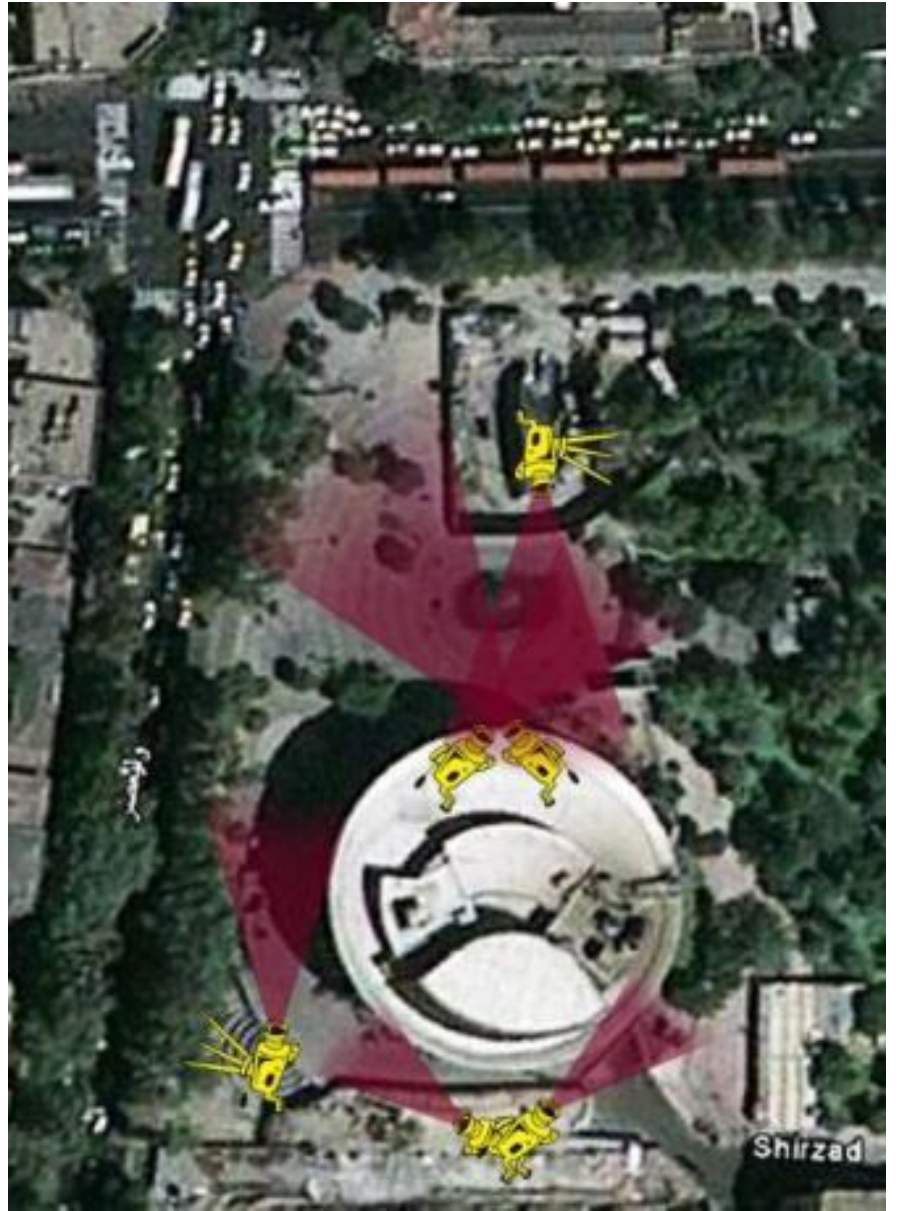
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Warmest days	17	21	25	30	35	40	42	40	37	31	25	21	22
Average of warm days	5	8	13	21	26	33	36	35	31	23	15	8	21
Average of cold days	-1	1	5	12	16	22	25	24	21	14	7	2	12
Coldest days	-12	-8	-7	1	3	10	15	12	11	3	-3	-7	-12
Rain (mm)	43	38	38	33	15	3	2	2	3	10	25	30	23

# Observation of public activities



- The best option for observation in urban space is capturing activities by filming and extracting observation data from it
- which can examine activities from various angles with minimum mistake and the possibility of reviewing events when necessary
- about the type of maps and studies, Yan Gel's diagrams and studies which shows differences in the type, amount and aggregation of urban space usage has been chosen as the best alternative and used in evaluation maps.
- The final days of filming that were used were:
  - Friday 10th of December as a holiday
  - Sunday 12st of December as a normal day

OBSERVATION





## Primary achievements:

- Activities such as sports, street theater performances, etc. are only highlighted at certain times, and can be analyzed only qualitatively.
- In groups of two and three people, along with any of these activities, the activity of talking and social communication is also carried out.
- During the assessment period, there were no specific cultural and economic activities in the area
- Since there is no possibility of separating people who are in different places for waiting or pausing and resting, only the physical effects of the use of people in the Plaza have been evaluated.

In evaluating the films, the following activities were evaluated and assessed:

- ✓ Sitting on the ledges
- ✓ Sitting on the seats
- ✓ Pause and wait as standing in certain points
- ✓ Crossing the people from the movement area
- ✓ The usage amount of entrances
- ✓ Circulation and roaming activity of people in different areas of the Plaza

Information on how the activities are carried out:

- ✓ The start and end times of an activity
- ✓ The number of people doing this activity divided into both men and women
- ✓ The age category of people doing activities
- ✓ The type and quality of people's activities
- ✓ Other activities simultaneously with an activity

### Types of activities in the city theatre plaza

essential activities	Selective activities	Social activities
<ul style="list-style-type: none"> <li>• Children's play</li> <li>• Meetings and talks</li> <li>• Musical performances and street theatres               <ul style="list-style-type: none"> <li>• Theatrics</li> </ul> </li> <li>• Dramatic movements</li> <li>• Exercise and walking</li> </ul>	<ul style="list-style-type: none"> <li>• Pause and rest (standing in certain places)</li> <li>• Watching others and surrounding sights               <ul style="list-style-type: none"> <li>• Walking</li> </ul> </li> <li>• Sitting on the edges and chairs</li> <li>• Painting Plaza Plot and City Theater Building               <ul style="list-style-type: none"> <li>• Use of eating and drinking spaces</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Commuting</li> <li>• Buy tickets</li> <li>• Using ATM</li> <li>• Advertising</li> <li>• Waiting for friends</li> <li>• Use of health services</li> </ul>

تعداد گروه های عابر در مسیرهای واقع در پلازای تئاتر شهر

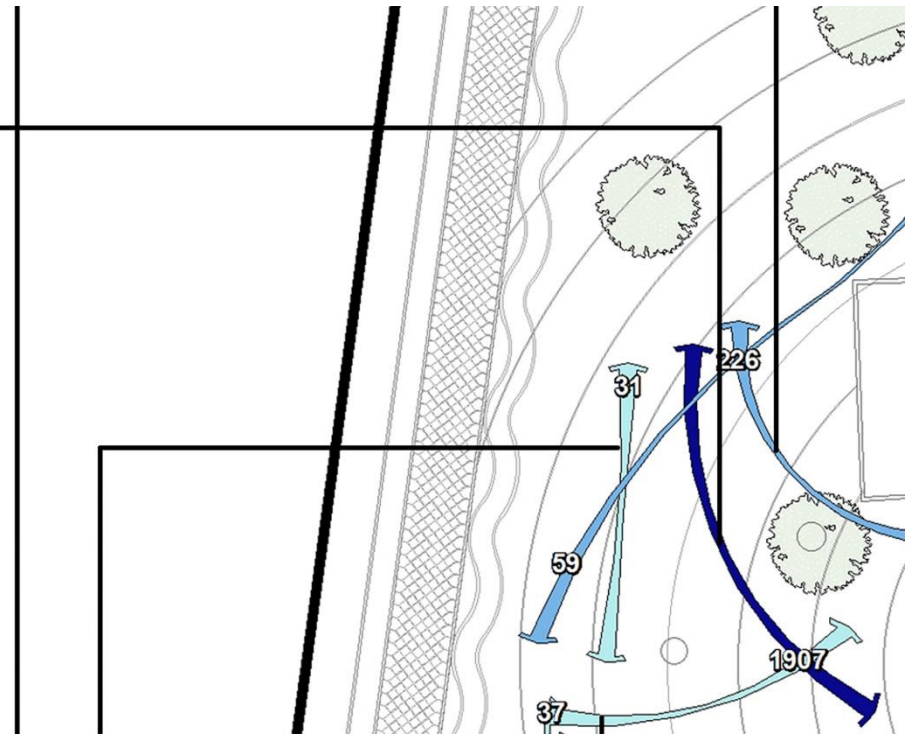
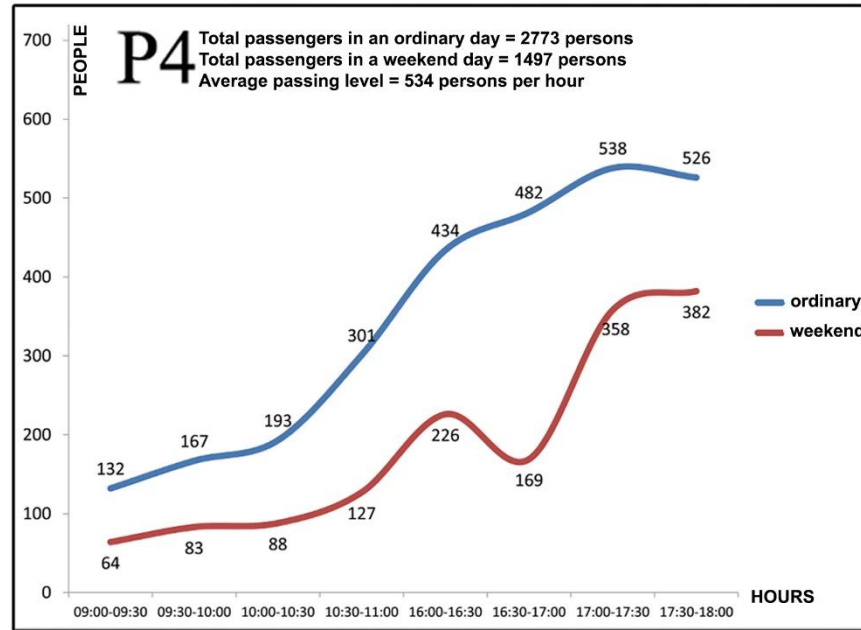
Area Code	Length	View	9.19				9.21				Morning		Evening		Ordinary		Weekend		Total	
			9-10	10-11	16-17	17-18	9-10	10-11	16-17	17-18	Sum	Activity Level Per Hour	Sum	Activity Level Per Hour	Sum	Activity Level Per Hour	Sum	Activity Level Per Hour	Sum	Activity Level Per Hour
L01	14.32	BUILDING	0:00:00	0:23:41	0:19:48	0:00:00	1:43:16	0:17:08	1:26:08	0:07:30	2:24:05	0:36:01	1:53:26	0:28:21	3:34:02	0:53:31	0:43:29	0:10:52	4:17:31	0:32:11
L02	15.73	BUILDING	0:01:14	0:00:49	2:19:39	2:16:36	0:04:03	0:00:00	2:45:00	1:51:33	0:06:06	0:01:32	9:12:48	2:18:12	4:40:36	1:10:09	4:38:18	1:09:35	9:18:54	1:09:52
L03	11.21	BUILDING	0:00:00	0:00:00	0:58:01	0:27:23	0:07:06	0:00:38	0:37:39	1:04:14	0:07:44	0:01:56	3:07:17	0:46:49	1:49:37	0:27:24	1:25:24	0:21:29	3:15:01	0:24:23
L05	13.98	BUILDING	0:04:01	0:03:07	0:06:40	4:15:22	0:17:33	0:07:37	0:24:08	0:58:32	0:32:18	0:08:04	5:44:42	1:26:10	1:47:50	0:26:57	4:29:10	1:07:17	6:17:00	0:47:07
L06	17.25	BUILDING	0:00:00	0:36:27	1:08:43	8:03:12	0:15:14	0:12:00	0:42:45	0:14:28	1:03:41	0:15:55	10:09:08	2:32:17	1:24:27	0:21:07	9:48:22	2:27:06	11:12:49	1:24:06
L07	8.38	BUILDING	0:00:00	0:00:00	0:17:52	0:00:30	0:00:00	0:32:51	0:14:07	0:00:00	0:32:51	0:08:13	0:32:29	0:08:07	0:46:58	0:11:44	0:18:22	0:04:35	1:05:20	0:08:10
L08	21.51	BUILDING	0:00:00	0:13:06	0:32:37	1:32:44	0:00:00	0:20:29	1:42:25	1:18:08	0:33:35	0:08:24	5:05:54	1:16:29	3:21:02	0:50:15	2:18:27	0:34:37	5:39:29	0:42:26
L09	13.15	BUILDING	0:00:00	0:00:00	0:03:38	0:13:38	0:00:00	0:00:00	0:06:42	0:00:00	0:00:00	0:00:00	0:23:58	0:06:00	0:06:42	0:01:40	0:17:16	0:04:19	0:23:58	0:03:00
L11	8.40	BUILDING	0:00:00	0:00:50	0:01:39	0:03:22	0:00:00	0:00:00	0:03:42	0:00:00	0:00:50	0:00:13	0:08:43	0:02:11	0:03:42	0:00:56	0:05:51	0:01:28	0:09:33	0:01:12
L12	18.84	PLAZA	0:18:21	0:04:48	0:00:36	0:18:41	1:19:10	1:56:52	4:04:22	1:31:37	3:39:11	0:54:48	5:55:16	1:28:49	8:52:01	2:13:00	0:42:26	0:10:36	9:34:27	1:11:48
L13	13.30	PLAZA	0:12:14	0:41:01	4:48:46	4:00:51	0:07:46	1:46:22	7:19:35	6:17:26	2:47:23	0:41:51	22:26:38	5:36:40	15:31:09	3:52:47	9:42:52	2:25:43	25:14:01	3:09:15
L14	10.18	PLAZA	0:00:00	0:02:06	0:02:11	0:00:00	0:52:19	1:15:12	0:12:29	0:51:15	2:09:37	0:32:24	1:05:55	0:16:29	3:11:15	0:47:49	0:04:17	0:10:36	3:15:32	0:24:26
L15	41.29	PLAZA	0:02:48	0:22:38	0:00:00	0:08:32	0:13:37	0:43:03	0:18:00	2:02:00	1:22:06	0:20:31	2:28:32	0:37:08	3:16:40	0:49:10	0:33:58	0:08:29	3:50:38	0:28:50
Total	207.54	-	0:38:38	2:28:33	10:40:10	21:20:51	5:00:04	7:12:12	19:57:02	16:16:43	15:19:27	3:49:52	68:14:46	17:03:42	48:26:01	12:06:30	35:08:12	8:47:03	83:34:13	10:26:47
Ch01	3.15	PLAZA	0:18:20	0:01:24	0:40:40	0:02:10	0:21:41	0:00:00	3:16:30	4:41:35	0:41:25	0:10:21	8:40:55	2:10:14	8:19:46	2:04:56	1:02:34	0:15:38	9:22:20	1:10:17
Ch02	3.15	PLAZA	0:49:48	0:02:24	0:15:45	0:00:16	0:00:00	0:00:00	1:53:55	0:24:46	0:52:12	0:13:03	2:34:42	0:38:41	2:18:41	0:34:40	1:08:13	0:17:30	3:26:54	0:25:52
Ch04	3.15	PLAZA	0:00:00	0:09:13	0:00:58	0:00:00	0:11:51	0:29:13	0:00:00	0:00:00	0:50:17	0:12:34	0:00:58	0:00:14	0:41:04	0:10:16	0:10:11	0:02:33	0:51:15	0:06:24
Ch05	3.15	BUILDING	0:06:06	0:27:19	0:36:38	0:16:12	0:21:42	0:55:56	0:57:07	0:28:32	1:51:03	0:27:46	2:18:29	0:34:37	2:43:17	0:40:49	1:26:15	0:21:34	4:09:32	0:31:11
Ch06	3.15	BUILDING	0:00:00	0:19:41	0:06:58	0:19:10	0:19:21	0:13:37	1:58:47	1:14:12	0:52:39	0:13:10	3:39:07	0:54:47	3:45:57	0:56:29	0:45:49	0:11:27	4:31:46	0:33:58
Ch08	3.15	BUILDING	0:05:40	0:55:50	1:14:59	1:14:24	0:11:38	0:05:27	1:33:24	1:32:58	1:18:35	0:19:39	5:35:45	1:23:56	3:23:27	0:50:52	3:30:53	0:52:43	6:54:20	0:51:48
Ch09	3.15	BUILDING	0:02:30	0:40:09	0:00:00	0:04:11	0:28:35	0:20:08	0:42:22	0:57:14	1:31:22	0:22:51	1:43:47	0:25:57	2:28:19	0:37:05	0:46:50	0:11:43	3:15:09	0:24:24
Ch10	3.15	BUILDING	0:00:32	0:17:51	0:10:00	0:00:00	0:14:15	0:00:00	0:00:58	0:00:00	0:32:38	0:08:09	0:10:58	0:02:45	0:15:13	0:03:48	0:28:23	0:07:06	0:43:36	0:05:27
Ch11	3.15	PLAZA	0:00:00	0:03:00	0:00:00	0:00:29	0:00:00	0:58:05	0:30:36	0:16:48	1:01:05	0:15:16	0:47:53	0:11:58	1:45:29	0:26:22	0:03:29	0:00:52	1:48:58	0:13:37
Ch12	3.15	PLAZA	0:00:00	0:00:00	0:49:56	0:07:38	0:00:00	0:12:30	0:22:08	0:02:55	0:12:30	0:03:08	1:22:37	0:20:39	0:37:33	0:09:23	0:57:34	0:14:23	1:35:07	0:11:53
Ch15	3.15	PLAZA	0:00:17	0:27:46	0:00:00	0:00:00	0:00:00	0:00:00	3:46:27	5:50:52	0:28:03	0:07:01	9:37:19	2:24:20	9:37:19	2:24:20	0:28:03	0:07:01	1:05:22	1:15:40
Total	34.65	-	1:23:13	3:24:37	3:55:54	2:04:30	2:09:03	3:14:56	15:02:14	15:29:52	10:11:49	2:32:57	36:32:30	9:08:07	35:56:05	8:59:01	10:48:14	2:42:03	46:44:19	5:50:32

Area Code	Direction	Beginning	Ending	9.19				9.21					Morning	Activity Level per Morning Hour	Evening	Activity Level per Evening Hour	Ordinary	Activity Level per Hour	Weekend	Activity Level per Hour	Total
				9-10	10-11	16-17	17-18	9-10	10-11	16-17	17-18										
P01	E			10	21	81	180	32	33	86	105	96	48	452	226	256	128	292	146	548	
	W			9	13	131	128	25	36	57	67	83	41.5	383	191.5	185	92.5	281	140.5	466	
P02	N			11	32	76	121	40	39	126	181	122	61	504	252	386	193	240	120	626	
	S			25	26	73	124	40	46	110	192	137	68.5	499	249.5	388	194	248	124	623	
P03	N			23	26	104	103	22	50	109	155	121	60.5	471	235.5	336	168	256	128	592	
	S			14	22	130	134	31	55	157	206	122	61	627	313.5	449	224.5	300	150	749	
P04	N			51	54	96	214	100	180	257	358	385	192.5	925	462.5	895	447.5	415	207.5	1310	
	S			74	110	177	273	168	245	356	401	597	298.5	1207	603.5	1170	585	634	317	1804	
P05	N			0	6	9	12	4	1	31	1	11	5.5	53	26.5	37	18.5	27	13.5	64	
	S			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
P06	N			9	9	16	22	18	23	47	49	59	29.5	134	67	137	68.5	56	28	193	
	S			5	14	19	21	19	18	26	39	56	28	105	52.5	102	51	59	29.5	161	
P07	N			8	7	16	27	18	31	62	77	64	32	182	91	188	94	58	29	246	
	S			15	27	51	64	31	50	56	45	123	61.5	216	108	182	91	157	78.5	339	
P08	N			1	4	6	5	4	7	0	16	16	8	27	13.5	27	13.5	16	8	43	
	S			1	1	11	9	5	5	2	7	12	6	29	14.5	19	9.5	22	11	41	
P09	N			1	1	0	1	2	6	0	19	10	5	20	10	27	13.5	3	1.5	30	
	S			2	2	3	1	4	14	0	27	22	11	31	15.5	45	22.5	8	4	53	
P10	N			25	24	46	58	51	62	131	118	162	81	353	176.5	362	181	153	76.5	515	
	S			26	42	70	74	94	103	148	148	265	132.5	440	220	493	246.5	212	106	705	
P11	E			108	137	162	75	296	277	422	481	818	409	1140	570	1476	738	482	241	1957	
	W			75	93	369	214	195	252	436	455	615	307.5	1474	737	1338	669	751	375.5	2089	
P12	E			28	39	54	44	56	88	246	271	211	105.5	615	307.5	661	330.5	165	82.5	826	
	W			26	37	130	34	46	72	228	276	181	90.5	668	334	622	311	227	113.5	849	
P13	N			0	0	2	3	1	2	2	9	3	1.5	16	8	14	7	5	2.5	19	
	S			0	0	5	5	0	7	8	8	7	3.5	26	13	23	11.5	10	5	33	
P14	E			0	0	9	5	0	0	40	0	0	0	54	27	40	20	14	7	54	
	W			0	0	13	8	0	0	0	13	0	0	34	17	13	6.5	21	10.5	34	
STEPS	STEPS IN			15	25	82	29	44	79	60	297	163	81.5	468	234	480	240	151	75.5	631	
	STEPS OUT			23	35	83	31	58	79	32	194	195	97.5	340	170	363	181.5	172	86	535	
TOTAL													4656	2328	11493	5746.5	10714	5357	5435	2717.5	16149

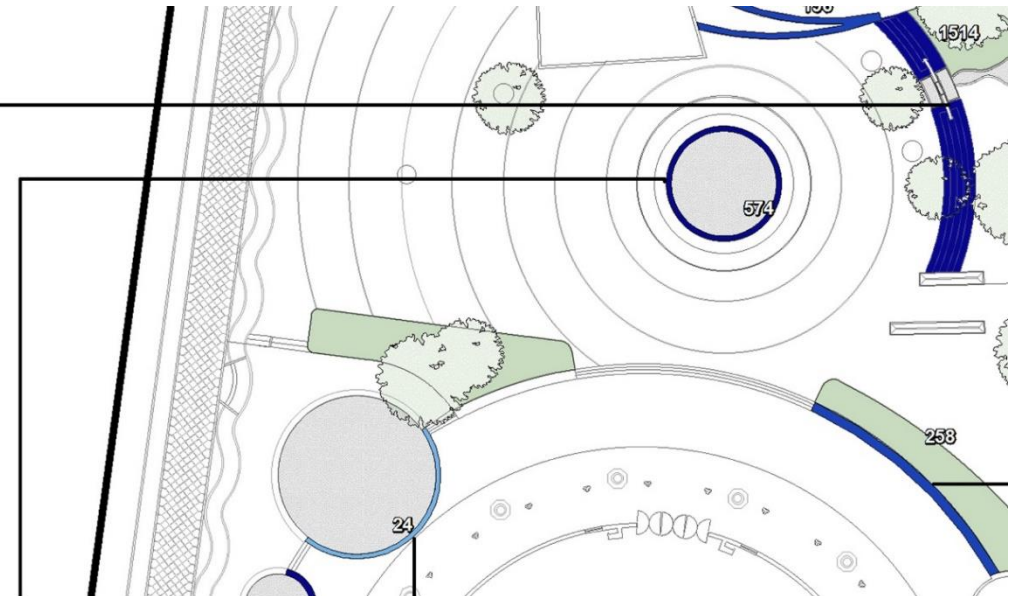
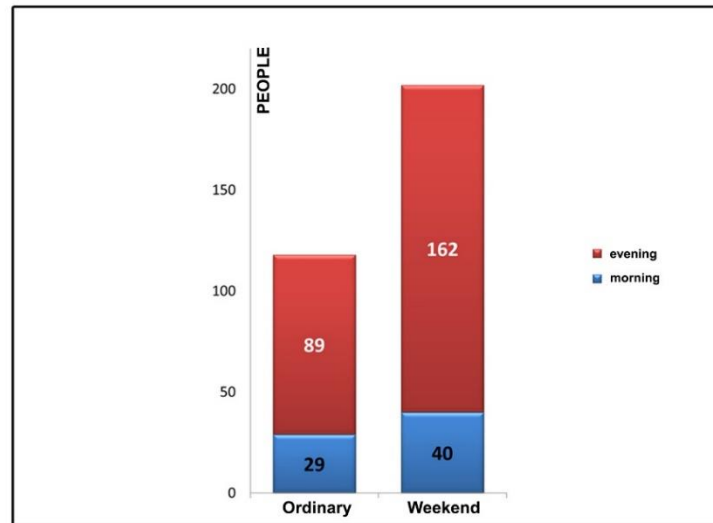


مدت استفاده از سندانج های واقع در پلاژی تانتر شهر																																			طول زمان استفاده										چند تا گروه های چند نفره										فراوانی گروه های سنسلی										اد افراد استفاده کننده از آبه های واقع در پلاژی تانتر ش										دوامت استفاده از سندانج های واقع در پلاژی تانتر شهر									
Area Code	Morning	Evening	Ordinary	Weekend	Total	Total Men	Total Women	Ordinary	Weekend	Total A	Total O	Total Ch	Total K	Total Y	9.19				9.21				9.19				9.21				Morning		Evening		Ordinary		Weekend		Sum	Activity Level Per Hour																																												
															1	2	3	>3	1	2	3	>3	0-5 mins	5-10 mins	10-15 mins	15-60 mins	Over 60 mins	0-5 mins	5-10 mins	10-15 mins	15-60 mins	Over 60 mins	Sum	Activity Level Per Hour	Sum	Activity Level Per Hour	Sum	Activity Level Per Hour			Sum	Activity Level Per Hour																																										
Ch01	7	52	49	10	59	55	19	61	13	19	4	0	1	50	7	3			38	10	1		5	3	1	1	0	20	14	2	13	0	0.41:25	0.10:21	8:40:53	2:10:14	8:19:46	2:04:36	1:02:34	0:15:38	9:22:20	1:10:17																																										
Ch02	3	18	16	5	21	16	18	29	5	6	1	0	2	25	5			7	6	2	1	3	0	0	2	0	8	2	1	5	0	0.52:12	0.13:03	2:34:42	0:38:41	2:18:41	0:34:40	1:08:13	0:17:03	3:26:54	0:25:52																																											
Ch03	3	2	1	4	5	5	1	1	5	4	0	0	0	2	3	1		1				1	2	0	1	0	0	0	0	0	1	0	0.30:02	0.07:30	0:46:13	0:11:33	0:38:00	0:09:30	0:38:15	0:09:34	1:16:15	0:09:32																																										
Ch04	5	1	4	2	6	7		5	2	3	1	0	0	0	3	2		3	1			1	1	0	0	0	0	3	0	0	1	0	0.50:17	0.12:34	0:00:58	0:00:14	0:41:04	0:10:16	0:10:11	0:02:33	0:51:15	0:06:24																																										
Ch05	16	22	28	10	38	65	18	67	16	9	7	0	0	67	4	6		4	13	8	3	4	3	2	1	0	17	4	3	4	0	1:51:03	0:27:46	2:18:29	0:34:37	2:43:17	0:40:49	1:26:15	0:21:34	4:09:32	0:31:11																																											
Ch06	9	28	24	13	37	37	29	43	23	12	2	0	5	47	5	6	2	9	12	2	1	10	2	0	1	0	10	6	2	6	0	0:52:39	0:13:10	3:39:07	0:54:47	3:45:57	0:56:29	0:45:49	0:11:27	4:31:46	0:33:58																																											
Ch08	10	36	25	21	46	60	51	74	37	2	0	0	3	106	7	13		1	5	9	3	8	14	0	2	5	0	15	6	1	3	0	1:18:35	0:19:39	5:35:45	1:23:56	3:23:27	0:50:52	3:30:53	0:52:43	6:54:20	0:51:48																																										
Ch09	8	10	10	8	18	21	10	15	16	3	1	0	0	27	2	4	2	5	5			5	1	1	1	0	4	2	0	4	0	1:31:22	0:22:51	1:43:47	0:25:57	2:28:19	0:37:05	0:46:50	0:11:43	3:15:09	0:24:24																																											
Ch10	4	2	2	4	6	8	2	5	5	2	0	0	0	8	3	1		1				2	0	1	1	0	1	0	1	0	0	0:32:38	0:08:09	0:10:58	0:02:45	0:15:13	0:03:48	0:28:23	0:07:06	0:43:36	0:05:27																																											
Ch11	3	13	14	2	16	19	9	25	3	2	0	0	0	26	1	1		6	3	3		2	0	0	0	0	9	2	2	0	1	1:01:05	0:15:16	0:47:53	0:11:58	1:45:29	0:26:22	0:03:29	0:00:52	1:48:58	0:13:37																																											
Ch12	2	8	6	4	10	9	7	9	7	2	2	0	0	0	14	2	1	1	4	1	1		0	2	0	2	0	3	2	0	1	0	0:12:30	0:03:08	1:22:37	0:20:39	0:37:33		0:14:23	0:14:23	1:35:07	0:11:53																																										
Ch13	2	0	0	2	2		4	0	4	0	0	0	0	0			2					2	0	0	0	0	0	0	0	0	0	0:02:38	0:00:40	0:00:00	0:00:00	0:00:00	0:02:48	0:00:40	0:02:38	0:00:20																																												
Ch14	0	20	20	0	20	24	9	33	0	0	0	0	0	33				11	7	1	1	0	0	0	0	0	14	3	1	2	0	0:00:00	0:00:00	1:54:29	0:28:37	1:54:29	0:28:37	0:00:00	0:00:00	1:54:29	0:14:19																																											
Ch15	5	47	47	5	52	60	20	75	5	16	2	1	0	61	5			27	12	8		3	0	2	0	0	21	8	6	10	2	0:28:03	0:07:01	9:37:19	2:24:20	9:37:19	2:24:20	0:28:03	0:07:01	10:05:22	1:15:40																																											
L01	6	21	22	5	27	7	31	28	10	3	2	0	0	33	4			1	16	6		0	3	2		12	2	5	3		2:24:05	0:36:01	1:53:26	0:28:21	3:34:02	0:53:31	0:43:29	0:10:52	4:17:31	0:32:11																																												
L02	4	60	36	28	64	19	84	63	40	16	3	0	0	84	17	10	1	18	11	5	2	20	2	5		1	23	3	8	2		0:06:06	0:01:32	9:12:48	0:12:48	4:40:36	1:10:09	4:38:18	1:09:35	9:18:54	1:09:52																																											
L03	4	20	15	9	24	11	30	24	17	9	0	0	1	31	3	4	2	7	7	1	0	4	1	2	2		10	1	3	1		0:07:44	0:01:56	3:07:17	0:46:49	1:49:37	0:27:24	1:25:24	0:21:21	3:15:01	0:24:23																																											
L05	7	41	23	25	48	36	50	38	48	8	6	0	2	70	12	7	3	3	11	10	1	1	18	1	5	1		15	2	1	5		0:32:18	0:08:04	5:44:42	1:26:10	1:47:50	0:26:57	4:29:10	1:07:17	6:17:00	0:47:07																																										
L06	10	79	19	70	89	26	108	30	104	10	7	0	5	112	42	22	6	9	9	1	0	53	2	7	5	3	13	2	2	2		1:03:41	0:15:55	10:09:08	2:32:17	1:24:27	0:21:07	9:48:22	2:27:06	11:12:49	1:24:06																																											
L07	2	13	6	9	15	8	25	6	27	3	1	0	2	27	2	2	2	3	6			0	7		2		3	1	1	1		0:32:51	0:08:13	0:32:29	0:08:07	0:46:58	0:11:44	0:18:22	0:04:35	1:05:20	0:08:10																																											
L08	4	36	29	11	40	16	43	41	18	0	2	0	2	55	4	7		17	12			0	5	1	3	2	14	6	3	6		0:33:35	0:08:24	5:05:54	1:16:29	3:21:02	0:50:15	2:18:27	0:34:37	5:39:29	0:42:26																																											
L09	0	5	1	4	5	3	4	1	6	0	0	0	0	7	2	2		1				0	3		1					1		0:00:00	0:00:00	0:23:58	0:06:00	0:06:42	0:01:40	0:17:16	0:04:19	0:23:58	0:03:00																																											
L11	1	7	2	6	8	5	11	8	8	0	1	0	0	15	4	2			1			1	6				2					0:00:50	0:00:13	0:08:43	0:02:11	0:03:42	0:00:56	0:05:51	0:01:28	0:09:33	0:01:12																																											
L12	33	50	58	25	83	11	104	82	33	28	3	2	1	81	21	1	2	1	38	18	1	1	23				31	2	13	12		3:39:11	0:54:48	5:55:16	1:28:49	8:52:01	2:13:00	0:42:26	0:10:36	9:34:27	1:11:48																																											
L13	56	164	136	84	220	66	254	202	118	44	14	2	6	254	56	23	4	1	84	40	10	2	51	11	15	7		85	9	24	18		2:47:23	0:41:51	22:26:38	5:36:40	15:31:09	3:52:47	9:42:52	2:25:43	25:14:01	3:09:15																																										
L14	12	13	23	2	25	7	22	26	3	13	0	0	0	16	1	1		20	3			2					14	3	5	1		2:09:37	0:32:24	1:05:55	0:16:29	3:11:15	0:47:49	0:04:17	0:01:04	3:15:32	0:24:26																																											
L15	36	24	37	23	60	10	76	58	28	31	3	0	2	50	19	3	1		27	8		2	20				30	1	5	1		1:22:06	0:20:31	2:28:32	0:37:08	3:16:40	0:49:10	0:33:58	0:08:29	3:50:38	0:28:50																																											
Y21	12	69	55	26	81	28	114	104	38	37	8	1	3	93	18	12		8	35	22	3	44	8	5	2	11		53	1	1		0:07:44	0:01:56	7:53:25	1:58:21	1:10:30	0:17:37	6:50:39	1:42:40	8:01:09	1:00:09																																											
Y22	9	18	17	10	27	6	27	21	12	13	3	0	0	17	8	4		13	8			9	1				14			3		0:39:31	0:09:33	1:53:52	0:28:28	2:10:50	0:42:43	0:22:33	0:05:38	2:33:23	0:19:10																																											
Y23	14	26	21	19	40	15	38	28	25	12	4	3	0	34	13	12		16	8			4	18				21					0:21:09	0:05:17	0:24:01	0:06:00	0:29:58	0:07:30	0:15:12	0:03:48	0:45:10	0:05:39																																											
NA	26	333	313	44	339	125	388	452	61	145	9	1	5	533	32	18	3	8	226	126	45	55	25	4	2	11	2	296	17	1	1		0:23:40	0:05:55	17:37:55	4:24:29	7:21:06	1:50:16	10:40:29	2:40:07	18:01:33	2:15:12																																										
SA	7	0	0	7	7	7	0	7	5	1	0	0	1	7					5	2												0:23:46	0:05:56	0:00:00	0:00:00	0:00:00	0:23:46	0:05:56	0:23:46	0:02:58																																												
EA	6	26	21	11	32	7	42	37	12	11	0	0	0	7	31	10	2		8	22	3	4	11				20	1				0:11:13	0:02:48	0:24:02	0:06:00	0:14:59	0:03:45	0:20:16	0:05:04	0:35:15	0:04:24																																											
WA	2	1	0	3	3		5	0	5	4	0	0	0	1	1	4			1	1			4	1	1							0:09:35	0:02:24	0:35:42	0:08:56	0:00:00	0:00:00	0:45:17	0:11:19	0:45:17	0:05:40																																											
M01	17	3	16	4	20	3	23	21	5	17	1	0	1	7	3	2		11	10			4					15			1		0:52:30	0:13:08	0:06:20	0:01:35	0:51:14	0:12:49	0:07:36	0:01:54	0:58:50	0:07:21																																											
M02	38	15	47	6	53	20	48	57	11	25	1	1	2	39	2	6	3		38	16	3		6				43	1	1	2		1:50:44	0:27:41	0:10:49	0:02:42	1:52:22	0:28:06	0:09:11	0:02:18	2:01:33	0:15:12																																											
M03	10	6	14	2	16	5	23	22	6	12	0	1	2	13				4	10	6		6	2				14					0:11:23	0:02:51	0:02:56	0:00:44	0:12:53	0:03:13	0:01:26	0:00:22	0:14:19	0:01:47																																											

# ASSESSMENT



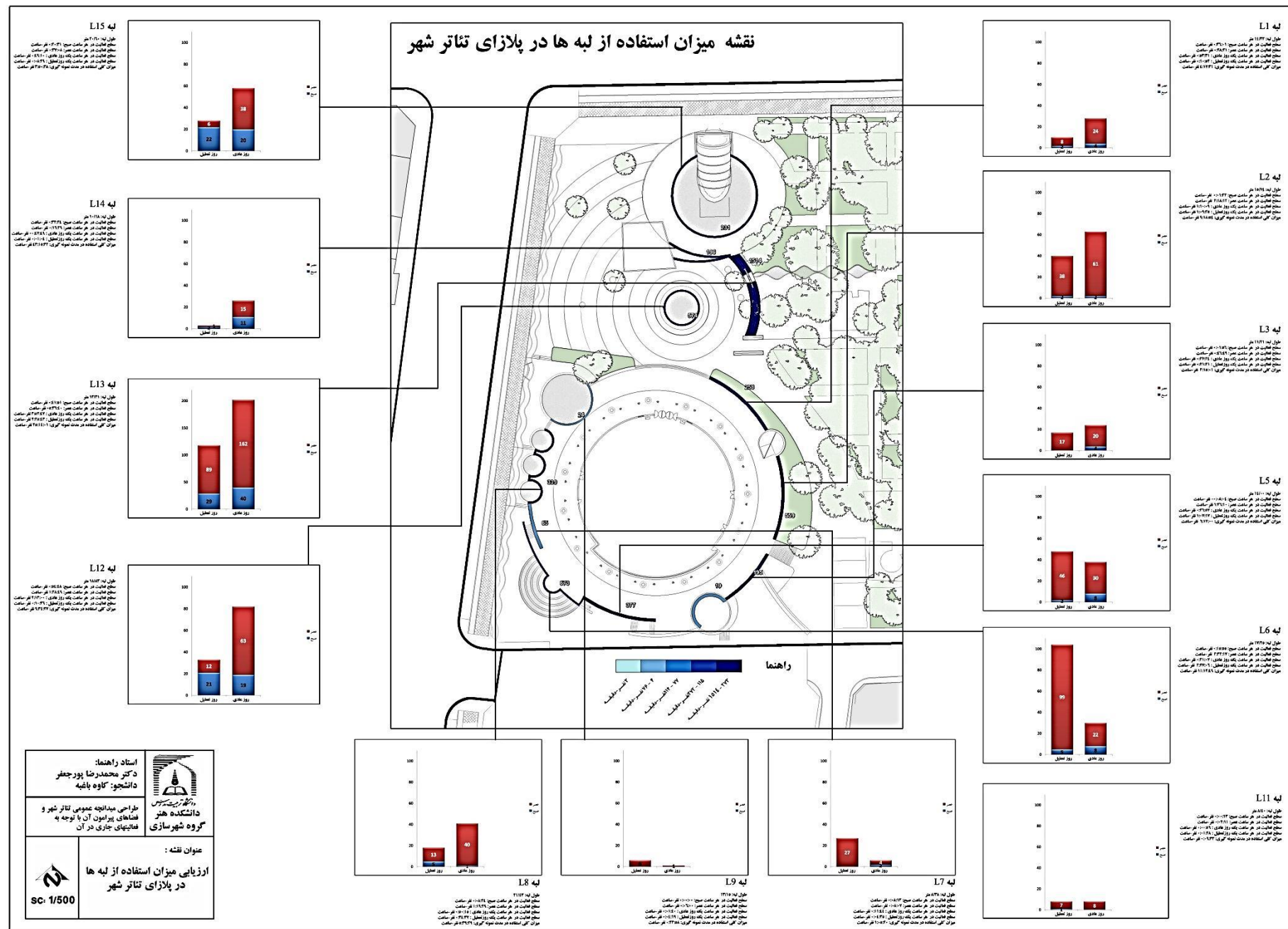
**L13**  
Ledge Length = 13.31 m  
Activity Level per hour in the morning = 00:41:51 ph  
Activity Level per hour in the evening = 05:36:40 ph  
Activity Level per hour for ordinary days = 03:52:47 ph  
Activity Level per hour for weekends = 02:25:43 ph  
Total use in observation period = 25:14:01 ph





# ASSESSMENT

- Concavity
- Being in sight
- Nice views in front
- Geometric allegiance with plaza
- Providing various eye levels
- Dominance over its back



**نقشه میزان استفاده از صندلی ها در پلازای تئاتر شهر**

**استاد راهنما:**  
دکتر محمدرضا پورجعفر  
دانشجو: کاوه باغچه

**مراجعه، پدیدار و طراحی:**  
معماری، پیرامون آن و توجه به  
فناهای جاری در آن

**عنوان نقشه:**  
ارزیابی میزان استفاده از  
صندلی ها در پلازای تئاتر شهر

**Scale:** 1/500

**Ch1 صندلی**  
روز عادی: 9  
روز تعطیل: 57

**Ch2 صندلی**  
روز عادی: 29  
روز تعطیل: 7

**Ch3 صندلی**  
روز عادی: 29  
روز تعطیل: 7

**Ch4 صندلی**  
روز عادی: 29  
روز تعطیل: 7

**Ch5 صندلی**  
روز عادی: 21  
روز تعطیل: 8

**Ch6 صندلی**  
روز عادی: 8  
روز تعطیل: 35

**Ch7 صندلی**  
روز عادی: 8  
روز تعطیل: 20

**Ch8 صندلی**  
روز عادی: 7  
روز تعطیل: 28

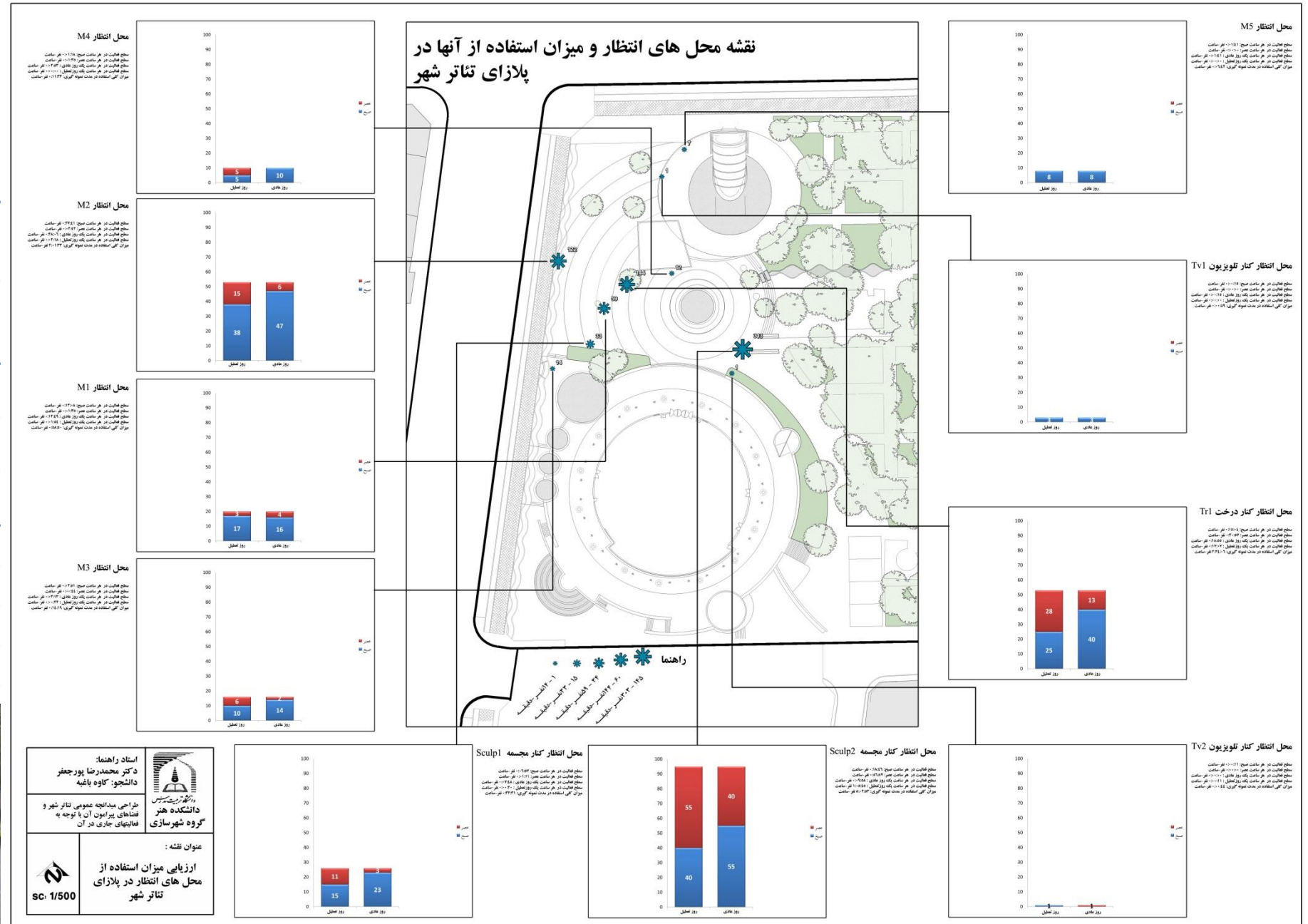
**Ch9 صندلی**  
روز عادی: 7  
روز تعطیل: 8

**Ch10 صندلی**  
روز عادی: 4  
روز تعطیل: 23

**رأیها**  
0-2: بسیار کم  
3-9: کم  
10-19: متوسط  
20-29: بسیار زیاد



# ASSESSMENT



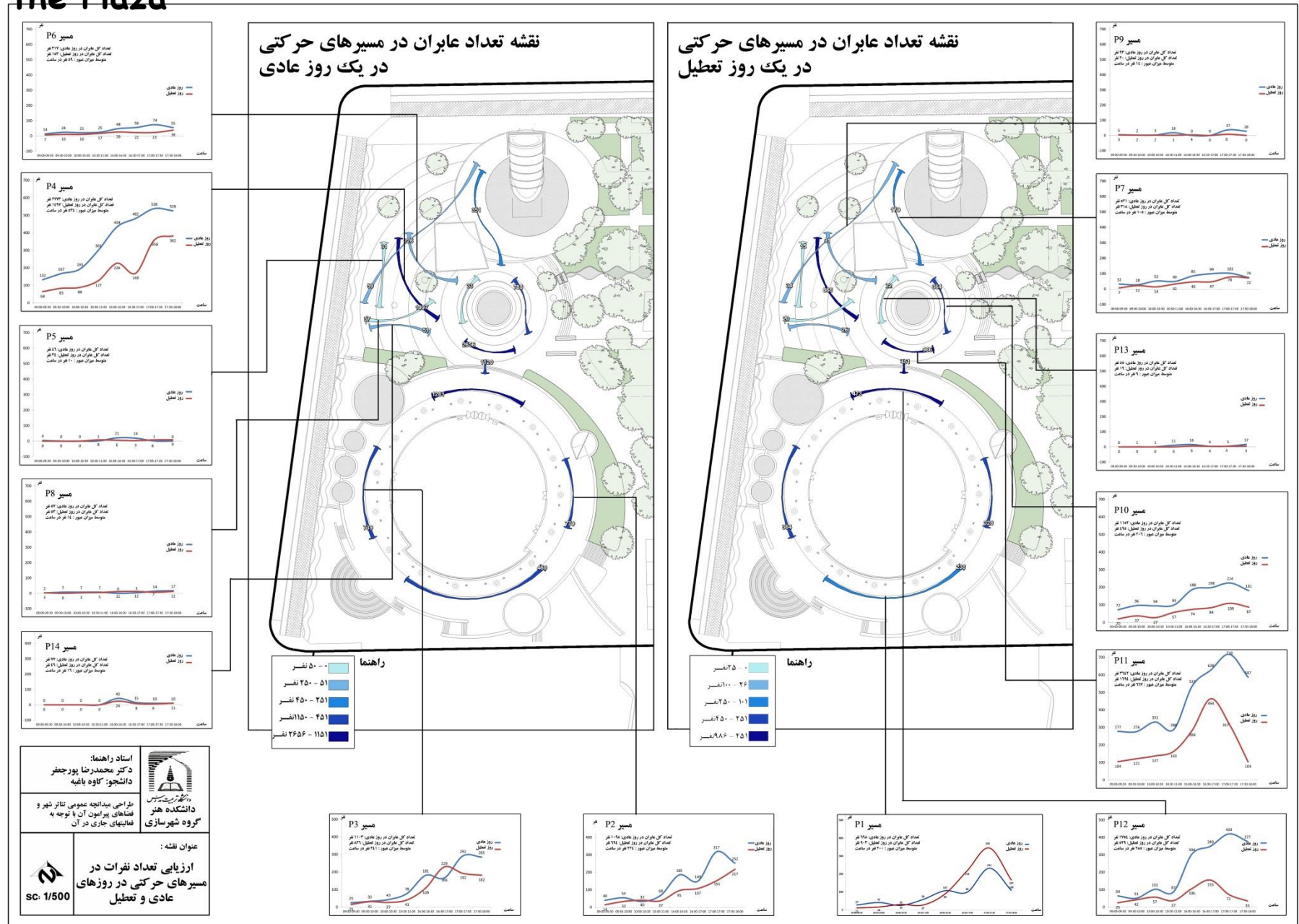
- Two zones have the most use: the northern side of the building colonnade beside the entrance and the southeast corner of the building beside the subsidiary entries
- Backside colonnade of the building is a very cozy place for young fellows for doing unconventional public activities (Girls like there for smoking, Couples like the for kissing, etc.).
- The seats were not in use as well as the ledges after all.
- On Weekends the use of ledges rose up to 8 times more than ordinary days, while it showed no relative change in use of individual seats.
- Regarding the amount of activities at the backside Colonnade, A public space needs both visible in touch spaces and cozy invisible corners
- By being eccentric, the entrance at the north side of the building and beside the main pool has become a unique landmark place for people to wait and set public appointments



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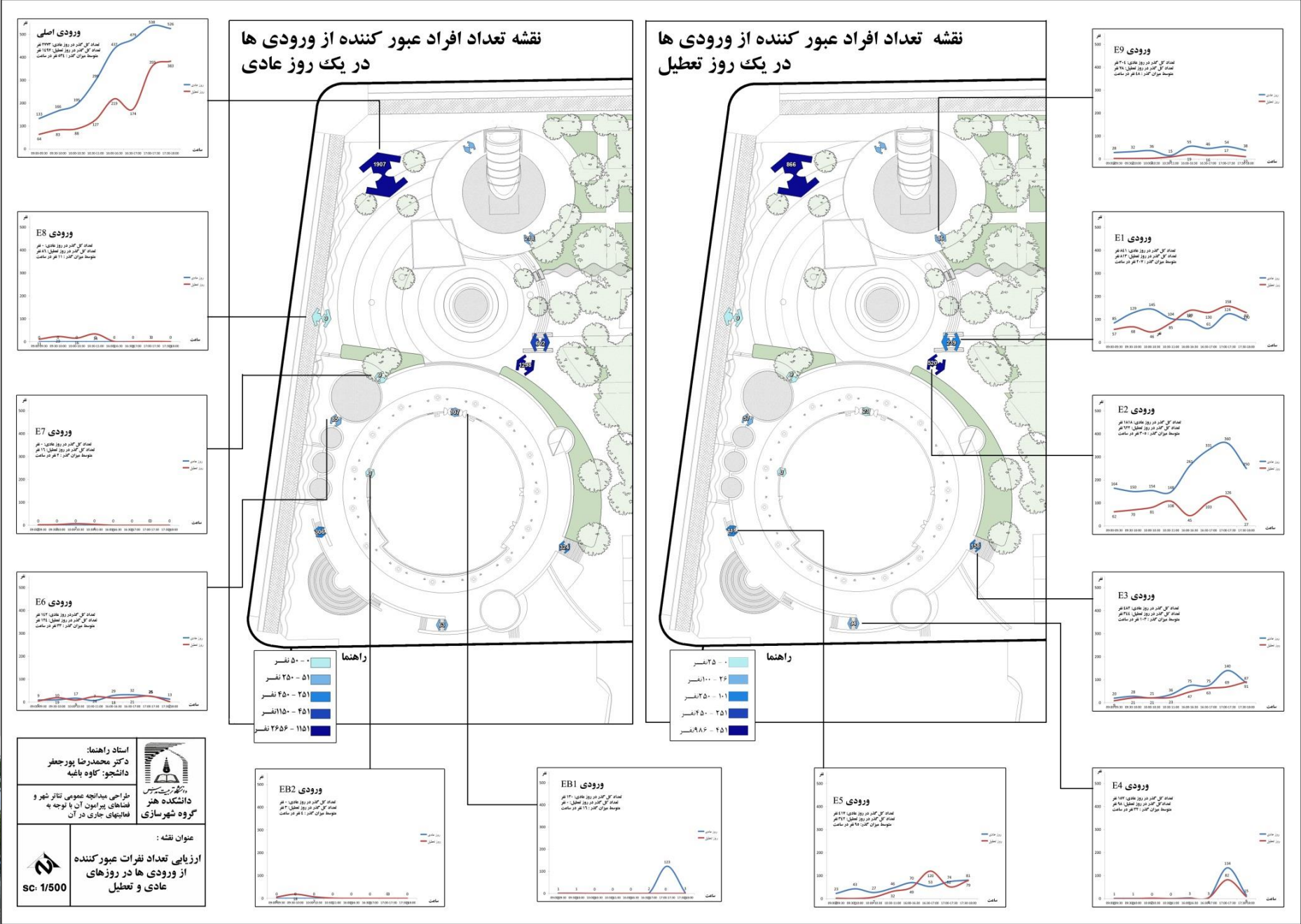
## Assessment the amount of using the pathways in the Plaza

- Passing is the most popular use in plazas. Does it effect other activities in the plaza? Have designers really wanted these places to be pathways?
- Pathways around the building and its colonnade (p1,p2,p3 & p12) and the pathway from the junction corner to the building (p4) are the most useful paths in the plaza
- There are lots of opportunities to provide cultural and social performances along the pathways, specially the useful ones



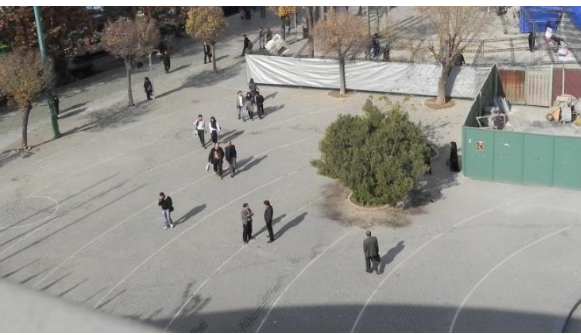
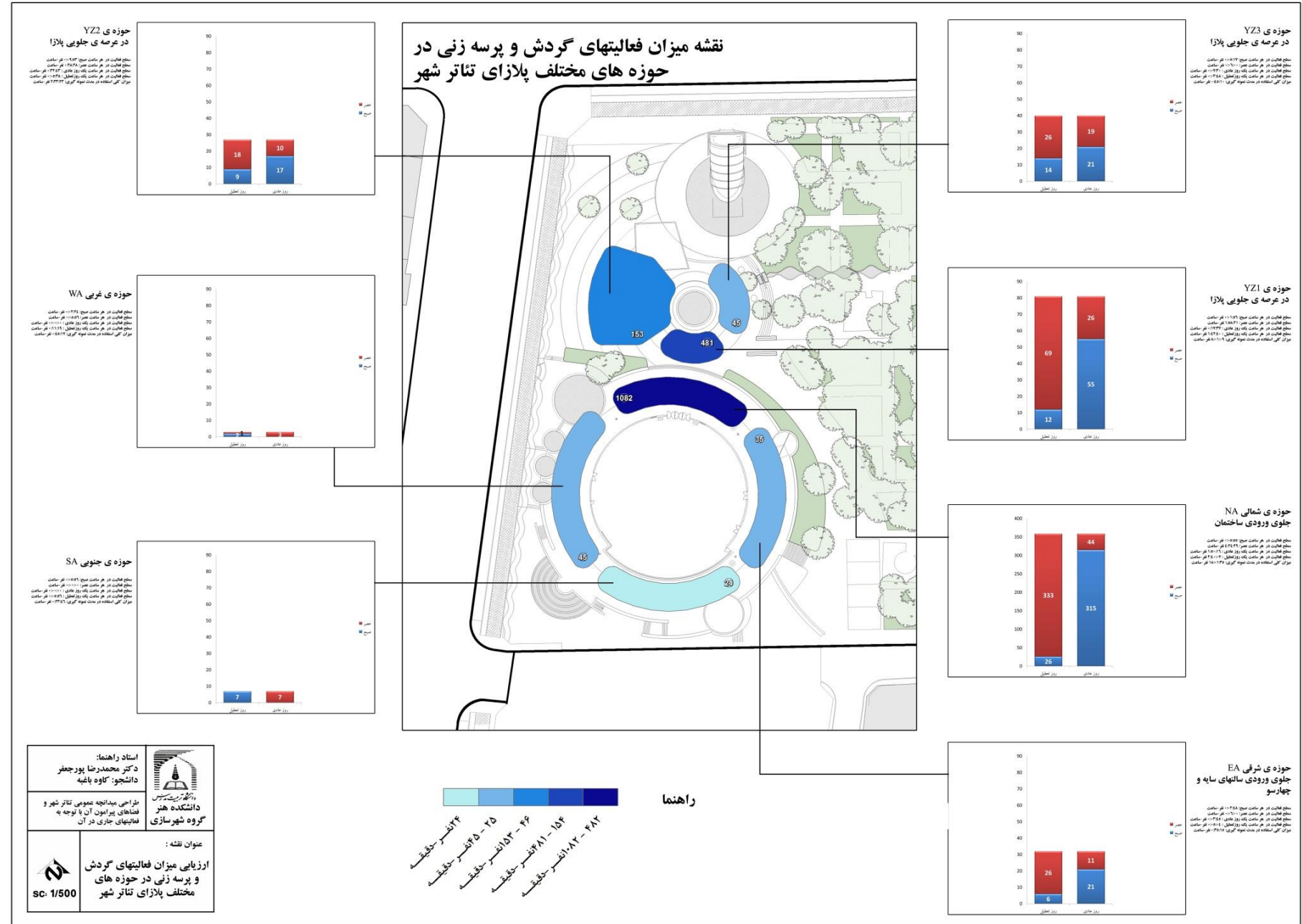
# Assessment the amount of using the Entrances of the Plaza

- E7, E8 & E9 are not very useful entrances and very few people are coming or leaving from there. So they can be closed or integrated.
- Most useful entrance is the main entrance at the junction corner.





## Assessment the amount of using plaza as a wandering place



- Most popularity and use is in the northern corridor of theater building.
- There exists an ATM, ticket selling office and the most important, Building's main hall Entrance which stands as a unique façade in front of the plaza.
- The building's southern corridor is the least popular space for wandering, regarding to the lack of nice surrounding views, lack of shadings and the narrow and curved pathway environment.

## Other occurring activities in the Plaza

- All kinds of performing arts happen in this plaza. You only have to come in the right time.
- Parkour, biking, morning exercises and jogging are very usual and common activities in theatre shahr plaza
- So there are very potential uses in a plaza that urban designers can explore and provide adequate furniture in a public space

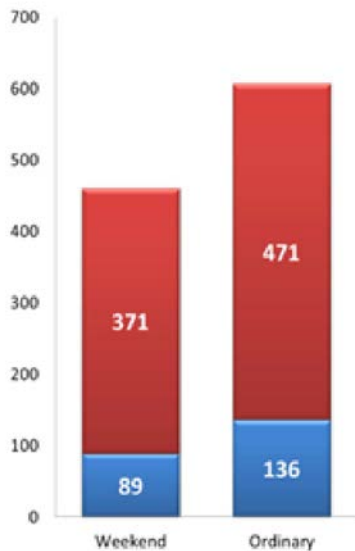




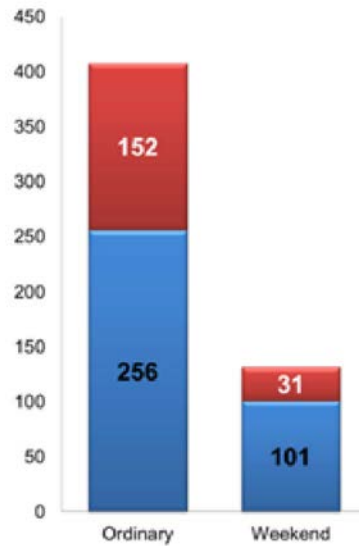
## Men and Women Use Ratio

- We all know: Where the women prefer to be is always more nice and more safe
- Women prefer ledges than seats in this plaza. This reveals the fact that formal characteristics of ledges are more responsive to public needs.
- Pathways in the plaza are more used by men. So the pavement design and other related characteristics of public realm here must be revised.

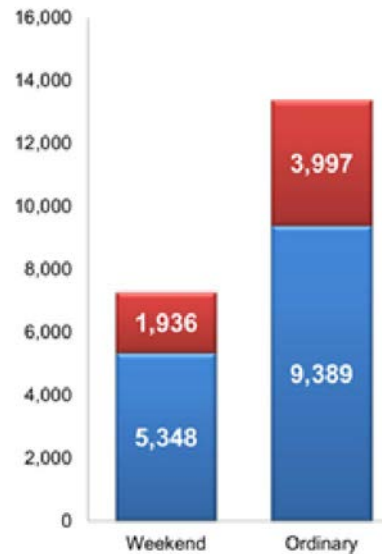
■ Women  
■ Men



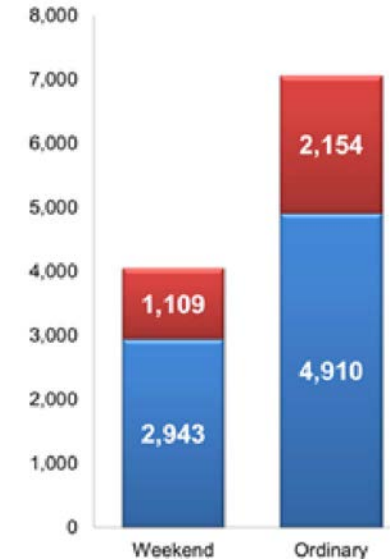
Ledge use



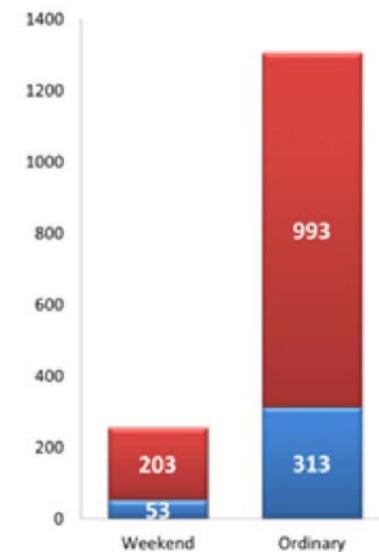
Seat use



Paths



Entries



Waiting and Wandering

# ASSESSMENT

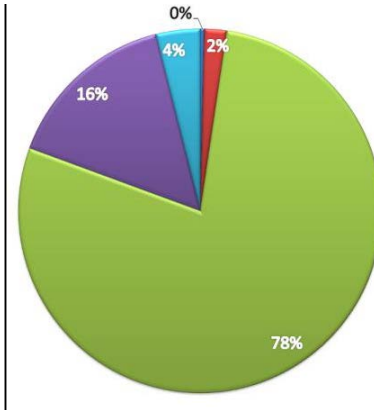
## Ages:

- Child
- Kid
- Young
- Adult
- Old

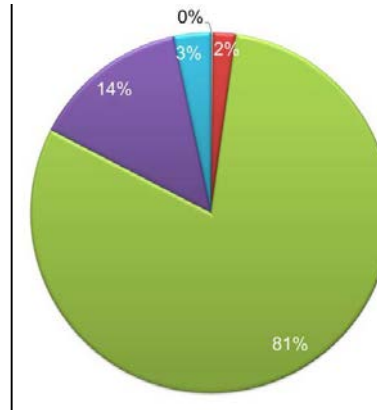
Observing shows that among 367 children who had passed along the plaza pathways (alone or with parents) only 32 of them found attractions inside plaza for longer stay.

This 10% can rise easily through designing suitable urban furniture.

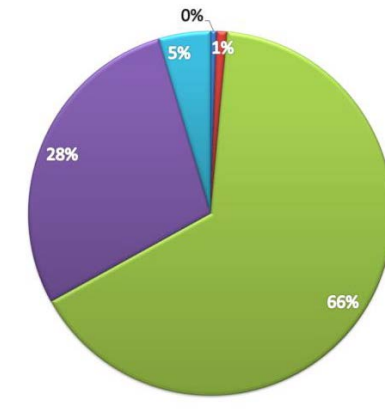
گروه های سنی	کد	محدوده سنی (تقریبی)
کودک	Ch	۰-۸
نوجوان	K	۸-۱۸
جوان	Y	۱۸-۳۰
میانسال	A	۳۰-۵۰
سالمند	O	بیشتر از ۵۰



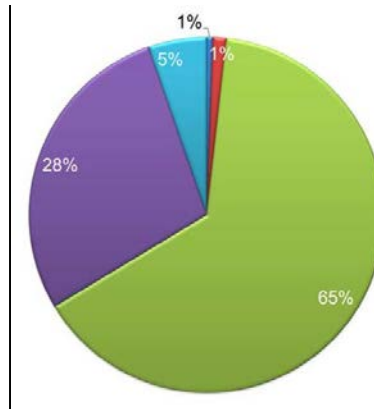
Ledge use



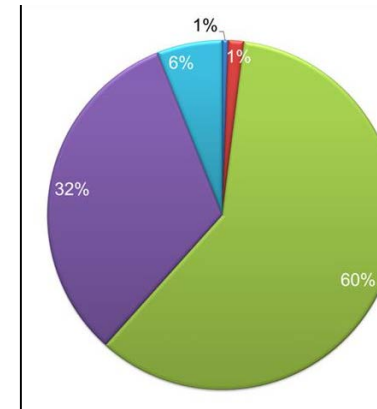
Seat use



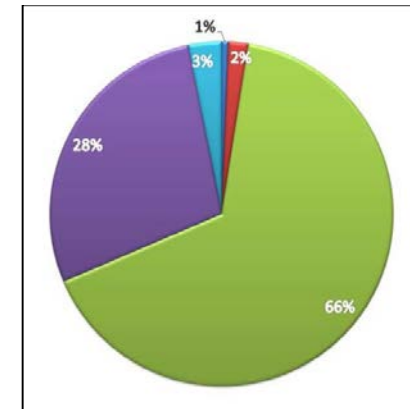
Waiting



Paths



Entries



Wandering



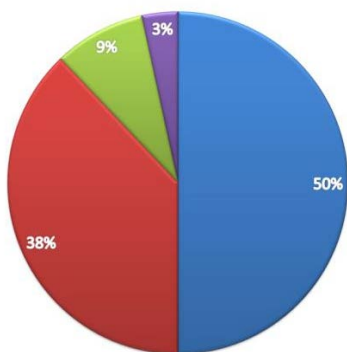
## Number of people involved:

Almost half of people using this plaza are alone. 35% are couples only a few groups of more than 2 are created in this plaza.

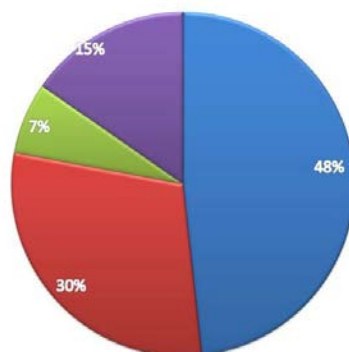
Lonely people on the ledges usually do waiting, looking around, reading, smoking or talking by phone at the same time.

Talking, smoking, eating and rehearsing are the most popular activities of couples.

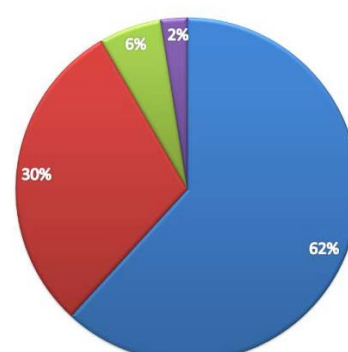
Waiting for a show to begin in the building is common among all groups of users. Specially in evening hours



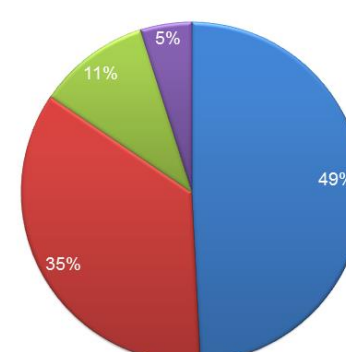
waiting



wandering



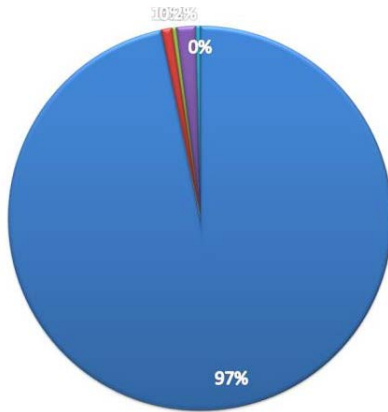
Ledge use



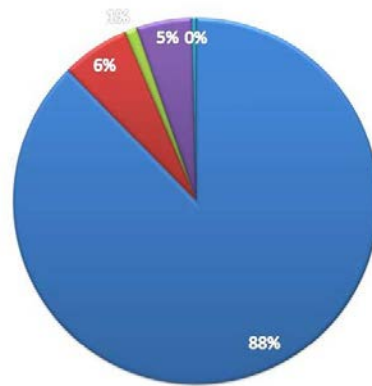
Seat use

## Times and periods of use

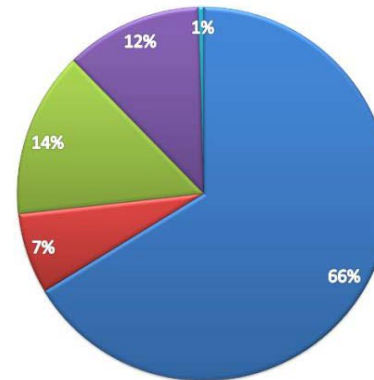
- If a performance is on a gig in the plaza, People would stay in the plaza at least until it ends.
- Ledges which more people choose to use, also have more use duration by them.
- Designing a ledge not only is about optimization of all aspects of its formal characteristics, but also includes decorating a nice view in front of it.



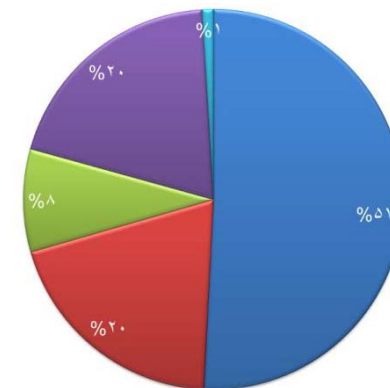
waiting



wandering



Ledge use



Seat use

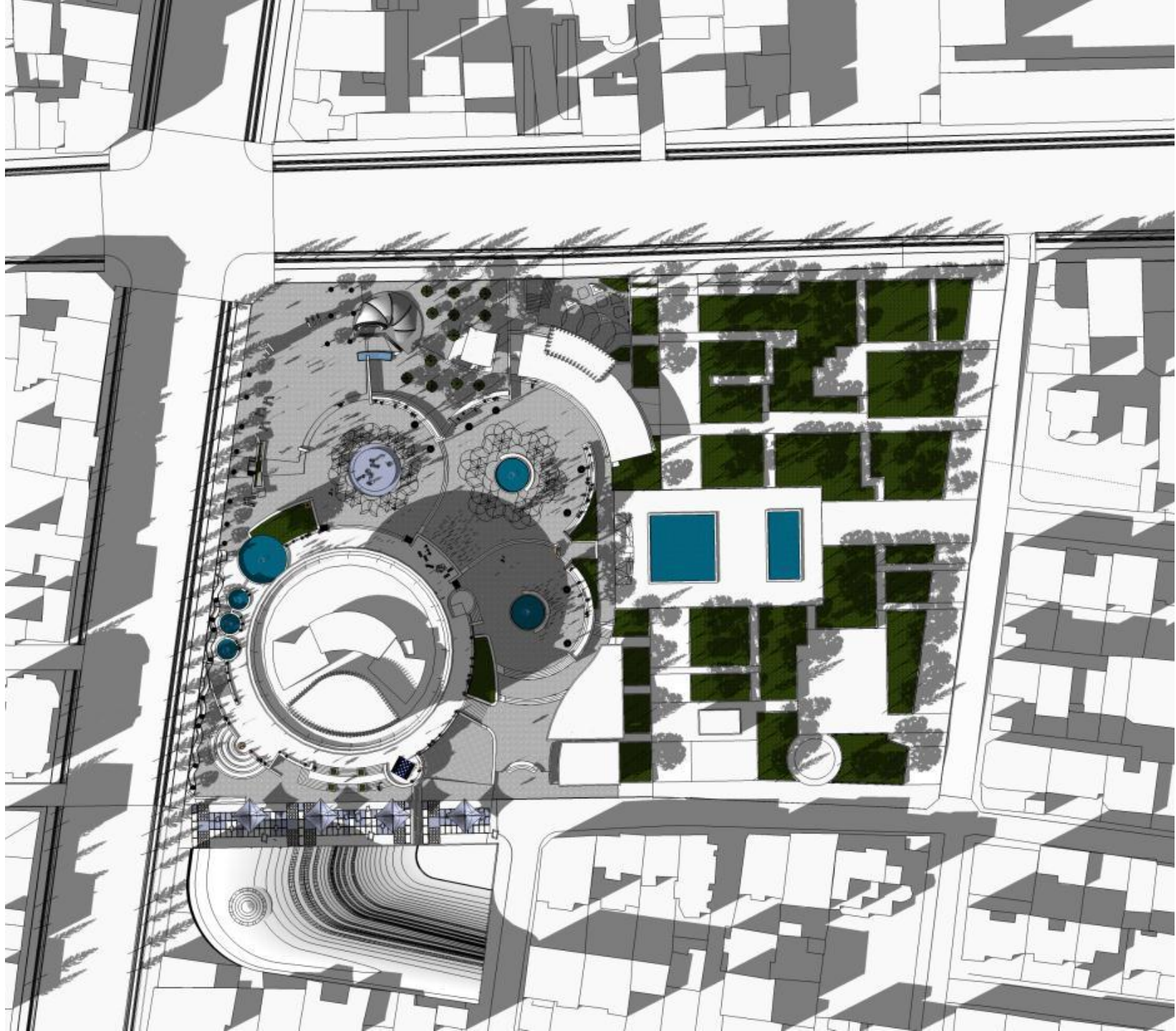


## Visions

- Developing the theatre's identifying scale as the National Cultural Centre for Performing arts.
- Redesigning the plaza to include memorable, vast and pleasant public spaces for people.
- Designing facilities to increase public interactions, small chats among all ages and all genders so that people feel calm and happy being among each other.

## Objectives

- Encouraging Cultural performances in the public plaza
- Providing spatial facilities to absorb social and cultural networks
- support free public performing arts by providing free gathering spaces in the plaza
- Increasing safety and sociability in the public space
- Reorganizing public services (retails, food, restrooms, etc.)
- Increasing environmental responsiveness of the plaza to its occurring activities and climatic situations
- Paying special attention to elders, children and women in designing urban furniture and facilities
- Encouraging the public gatherings in groups of at least 3 persons













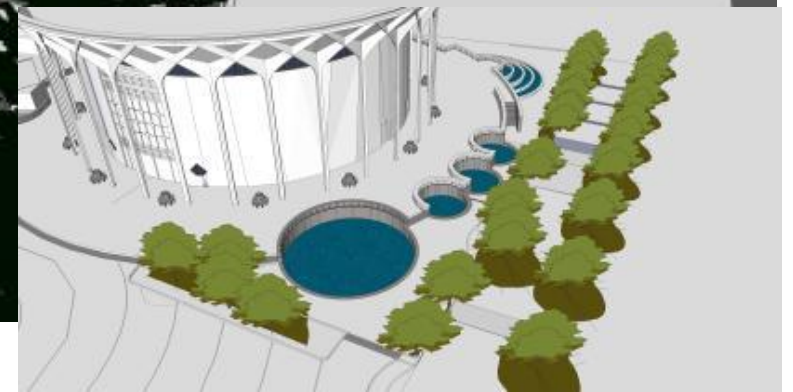






EXISTING SITUATION





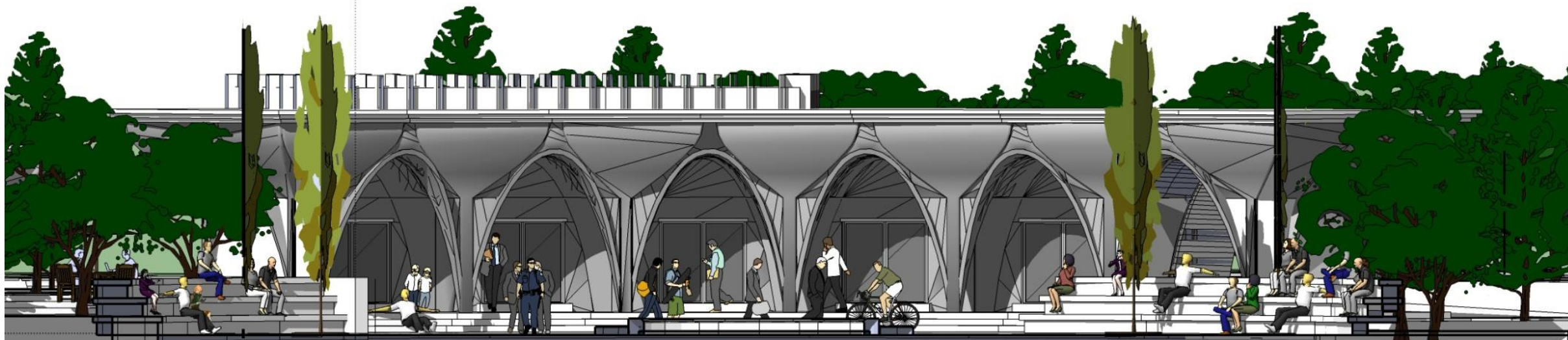
EXISTING SITUATION





**EXISTING SITUATION**











**APPRECIATE  
YOUR  
ATTENTION**