



CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI and VII

I. IDENTIFICATION

1. Proposed Work-site at: SPORTS AUTHORITY BROOK PLAZA
2. Name of Owner in Fee: FEDERAL REALTY TRUST Tel. 301 998 8000
Address 1626 EVERSON ST. ROCKVILLE MD 20852
street municipality zip code
3. Ownership in Fee: Public _____ Private _____
4. Principal Contractor: QUALIFIED TILE PROT. INC. Tel. 908 647-5654
Address 146 MTN. AVE WARREN NJ. 07059
- License No. OR, if new home, Builder Reg. No. _____ Exp. Date _____
- Federal Emp. No. _____ Social Security No. _____
5. Architect or Engineer KLE FINE Tel. 908 303-1212
Address _____
6. Responsible Person in Charge of Work PAUL STEPHAN'S Tel. 908 647-5654

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$		
2. Electrical			
3. Plumbing			
4. Fire Protection			
5. Elevator Devices			
6. Subtotal	\$		
7. Less 20% for State Plan Review			
8. Subtotal	\$		
9. DCA Training Fee			
10. Subtotal	\$		
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$	<u>641</u>	

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories _____
2. Height of Structure _____ ft.
3. Area—Largest Floor _____ sq. ft.
4. New Building Area _____ sq. ft.
5. Volume of New Structure _____ cu. ft.
6. Construction Classification _____
7. Total Land Area Disturbed _____ sq. ft.
8. Flood Hazard Zone _____
9. Base Flood Elevation _____ ft.
10. Wetlands yes _____ sq. ft.
no _____
11. Max. Live Load _____
12. Max. Occupancy Load _____

II. PROPOSED WORK

1. ☐ Minor work (single trade)
2. ☐ Small Job (\$5,000 and no prior approvals)
3. ☐ New Building
4. ☐ Addition
5. ☐ Alteration
6. ☒ Fire Protection
7. ☒ Plumbing
8. ☐ Electrical
9. ☐ Elevator Devices
10. ☐ Asbestos Abatement
11. ☐ Demolition
- TOTAL COSTS

Est. Cost

25,000
1,000

26,000

OPTIONAL (for office use only)

Plans Rec'd By	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer

III. DO YOU WANT: (optional) 1 ☐ Partial Releases 2 ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/
Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers
8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

1. ☐ Hotels (R-1)
2. ☐ Multi-Family (R-2)
3. ☐ Two-Family (R-3) BOCA
4. ☐ Two-Family (R-4) CABO
5. ☐ One-Family (R-3) BOCA
6. ☐ One-Family (R-4) CABO

No of dwelling units:

Before Construction _____

After Construction _____

Net gain or loss _____

B. NON-RESIDENTIAL

1. State Specific Use:
2. Use Group:
3. Change in Use Group, Indicate Former:

IFICATION IN LIEU OF OATH

OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION

(to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☐ Check if contractor.

Agent Name _____

Address _____

Telephone (____) _____

Signature _____ Date _____

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Fire Department									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Dept. of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Dept. of Environmental Protect.									
☐ Utility Dig No.									
☐ Other									
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

Name of Code & Edition	Name of Code & Edition	Other
Building _____	Energy _____	
Electrical _____	Barrier Free _____	
Plumbing _____	Flood Hazard _____	
Fire Protection _____	As Built Elevation Cert. _____	
Mechanical _____	Other _____	

X. CERTIFICATES ISSUED (office use only)

DATE EXPIRED

☐ Temporary Certificate of Occupancy	No. _____	_____
☐ Temporary Certificate of Occupancy	No. _____	_____
☐ Continued Certificate of Occupancy	No. _____	_____
☐ Certificate of Occupancy	No. _____	_____
☐ Certificate of Approval	No. _____	_____
☐ None		



CONSTRUCTION PERMIT

Date Issued
Control #
Permit #

3/13/97

457-97

IDENTIFICATION Block 671 Lot 1, 4, 12

Work Site Location SPORTS AUTHORITY

Contractor Qualified Fire Prot.

Owner in Fee FEDERAL REALTY

Address _____

Address _____

Tele. (____) _____

Tele. (____) _____

Lic. No. or Bldrs. Reg. No. _____ Exp. Date _____

Federal Emp. No. _____

or Social Security No. _____

Is hereby granted permission to perform the following work:

☐ BUILDING ☒ PLUMBING ☐ OTHER _____

☐ ELECTRICAL ☒ FIRE PROTECTION

☐ ELEVATOR DEVICES

DESCRIPTION OF WORK:

Wet Fire Sprinkler System

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$ 26000

J. Curcio 330/22
CONSTRUCTION OFFICIAL

U.C.C. Form F-170C

PAYMENTS (Office Use Only)		457#
Building	<u>BUILDING</u>	1.00
Plumbing	<u>PLUMBING</u>	1.00
Electrical	<u>ELECTRICAL</u>	1.00
Fire Protection	<u>FIRE PROTECTION</u>	1.00
Other	<u>OTHER</u>	1.00
DCA Training Fee	<u>21</u>	3.00
Cert. of Occ.	<u>BUILDING</u>	3.00
Other	<u>PLUMBING</u>	3.00
Total	<u>TOTAL</u>	26.00
Check No.	<u>7250.00</u>	2.00
Cash	<u>TOTAL</u>	64.00
Collected By:	<u>[Signature]</u>	

K&E FIRE PROTECTION CORPORATION
14 PLAZA NINE
MANALAPAN, NEW JERSEY 07726

HYDRAULIC CALCULATIONS

FOR

SPORTS AUTHORITY
BRICK TWP. NEW JERSEY

FILE NUMBER: SPORT.1
03-12-1997

-DESIGN DATA-

OCCUPANCY CLASSIFICATION:	RACK STORAGE
DENSITY:	.39 gpm/sq. ft.
AREA OF APPLICATION:	2000 sq. ft.
COVERAGE PER SPRINKLER:	100 sq. ft.(max)
NUMBER OF SPRINKLERS CALCULATED:	26 heads
TOTAL SPRINKLER WATER FLOW REQUIRED:	813.7 gpm
TOTAL WATER REQUIRED (including hose):	1313.7 gpm
FLOW & PRESSURE (at base of riser):	1313.7 gpm @ 45.8 psi
SPRINKLER ORIFICE SIZE:	17/32inch
NAME OF CONTRACTOR:	QUALIFIED FIRE PROTECTION
NAME OF DESIGNER:	K&E FIRE PROTECTION
AUTHORITY HAVING JURISDICTION:	LOCAL OFFICIALS



SPRINKLER SYSTEM HYDRAULIC ANALYSIS

Page 1

Date: 03-12

SPORT.1

JOB TITLE: SPORTS AUTHORITY

WATER SUPPLY DATA

SOURCE NODE TAG	STATIC PRESS. (PSI)	RESID. PRESS. (PSI)	FLOW @ (GPM)	AVAIL. PRESS. (PSI)	TOTAL DEMAND (GPM)	REQ'D PRESS. (PSI)
SRC	60.0	49.0	1640.0	52.7	1313.7	45.8

AGGREGATE FLOW ANALYSIS:

TOTAL FLOW AT SOURCE	1313.7 GPM
TOTAL HOSE STREAM ALLOWANCE AT SOURCE	500.0 GPM
OTHER HOSE STREAM ALLOWANCES	0.0 GPM
TOTAL DISCHARGE FROM ACTIVE SPRINKLERS	813.7 GPM

NODE ANALYSIS DATA

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
1	21.0	- - - -	26.9	- - -
2	23.0	K= 8.20	14.2	30.9
3	23.0	K= 8.20	13.6	30.3
4	23.0	K= 8.20	13.4	30.0
5	23.0	K= 8.20	13.2	29.8
6	23.0	K= 8.20	13.2	29.8
7	23.0	K= 8.20	13.3	29.9
8	23.0	K= 8.20	13.7	30.3
9	23.0	K= 8.20	16.1	32.9
10	21.0	- - - -	23.9	- - -
11	21.0	- - - -	26.9	- - -
12	23.0	K= 8.20	14.4	31.1
13	23.0	K= 8.20	13.8	30.5
14	23.0	K= 8.20	13.5	30.2
15	23.0	K= 8.20	13.3	29.9
16	23.0	K= 8.20	13.3	29.9
17	23.0	K= 8.20	13.4	30.1
18	23.0	K= 8.20	13.8	30.4
19	23.0	K= 8.20	16.2	33.0
20	21.0	- - - -	23.9	- - -
21	21.0	- - - -	26.9	- - -
22	23.0	K= 8.20	14.4	31.2
23	23.0	K= 8.20	13.9	30.5
24	23.0	K= 8.20	13.6	30.2
25	23.0	K= 8.20	13.4	30.0
26	23.0	K= 8.20	13.4	30.0
27	23.0	K= 8.20	13.5	30.1
28	23.0	K= 8.20	13.9	30.5
29	23.0	K= 8.20	16.3	33.1
30	21.0	- - - -	24.1	- - -
31	21.0	- - - -	27.0	- - -
32	23.0	K= 8.20	23.2	39.5
33	23.0	K= 8.20	23.2	39.5
34	23.0	- - - -	23.3	- - -

JOB TITLE: SPORTS AUTHORITY

NODE ANALYSIS DATA (cont'd)

NODE TAG	ELEVATION (FT)	NODE TYPE	PRESSURE (PSI)	DISCHARGE (GPM)
35	21.0	- - - -	24.6	- - - -
36	21.0	- - - -	27.0	- - - -
37	21.0	- - - -	25.1	- - - -
38	21.0	- - - -	27.1	- - - -
39	21.0	- - - -	25.5	- - - -
40	21.0	- - - -	27.2	- - - -
41	21.0	- - - -	25.9	- - - -
42	21.0	- - - -	27.3	- - - -
43	21.0	- - - -	26.3	- - - -
44	21.0	- - - -	27.4	- - - -
45	21.0	- - - -	26.6	- - - -
46	21.0	- - - -	27.5	- - - -
47	21.0	- - - -	26.9	- - - -
48	21.0	- - - -	27.6	- - - -
49	21.0	- - - -	27.1	- - - -
50	21.0	- - - -	27.7	- - - -
51	21.0	- - - -	27.3	- - - -
52	21.0	- - - -	27.8	- - - -
53	21.0	- - - -	27.5	- - - -
54	21.0	- - - -	28.0	- - - -
55	21.0	- - - -	27.7	- - - -
56	21.0	- - - -	28.1	- - - -
57	21.0	- - - -	27.9	- - - -
58	21.0	- - - -	28.3	- - - -
59	21.0	- - - -	28.0	- - - -
60	21.0	- - - -	28.4	- - - -
61	21.0	- - - -	28.2	- - - -
62	21.0	- - - -	28.5	- - - -
63	21.0	- - - -	28.3	- - - -
64	21.0	- - - -	28.7	- - - -
65	21.0	- - - -	28.4	- - - -
66	21.0	- - - -	28.9	- - - -
67	21.0	- - - -	28.5	- - - -
68	21.0	- - - -	29.0	- - - -
69	21.0	- - - -	28.6	- - - -
70	21.0	- - - -	29.2	- - - -
71	21.0	- - - -	28.7	- - - -
72	21.0	- - - -	29.4	- - - -
73	21.0	- - - -	28.7	- - - -
74	21.0	- - - -	31.5	- - - -
75	21.0	- - - -	31.5	- - - -
76	21.0	- - - -	28.8	- - - -
77	21.0	- - - -	31.5	- - - -
SRC	0.0	SOURCE	45.8	813.7
78	21.0	- - - -	28.8	- - - -
79	21.0	- - - -	31.5	- - - -
80	21.0	- - - -	28.8	- - - -
81	0.0	- - - -	41.9	- - - -
82	0.0	- - - -	44.9	- - - -

JOB TITLE: SPORTS AUTHORITY

PIPE DATA

PIPE TAG		ELEV. (FT)	NOZ. (K)	PT (PSI)	DISC. (GPM)	Q(GPM)	DIA(IN)	LENGTH (FT)	PRESS.	
END	NODES					VEL(FPS)	HW(C)		SUM.	(PSI)
						F.L./FT				
Pipe: 1										
1		21.0	0.0	26.9	0.0	115.1	2.067	PL 54.0	PF	11.9
2		23.0	8.2	14.2	30.9	11.0	120	FL 43.0	PE	0.9
							0.122	TL 97.0	PV	0.8
Pipe: 2										
2		23.0	8.2	14.2	30.9	84.2	2.067	PL 8.3	PF	0.6
3		23.0	8.2	13.6	30.3	8.1	120	FL 0.0	PE	0.0
							0.068	TL 8.3	PV	0.4
Pipe: 3										
3		23.0	8.2	13.6	30.3	53.9	2.067	PL 8.3	PF	0.2
4		23.0	8.2	13.4	30.0	5.2	120	FL 0.0	PE	0.0
							0.030	TL 8.3	PV	0.2
Pipe: 4										
4		23.0	8.2	13.4	30.0	23.9	2.067	PL 8.3	PF	0.2
5		23.0	8.2	13.2	29.8	2.3	120	FL 20.0	PE	0.0
							0.007	TL 28.3	PV	0.0
Pipe: 5										
5		23.0	8.2	13.2	29.8	-5.8	2.067	PL 8.3	PF	0.0
6		23.0	8.2	13.2	29.8	0.6	120	FL 0.0	PE	0.0
							0.000	TL 8.3	PV	0.0
Pipe: 6										
6		23.0	8.2	13.2	29.8	-35.6	2.067	PL 8.3	PF	0.1
7		23.0	8.2	13.3	29.9	3.4	120	FL 0.0	PE	0.0
							0.014	TL 8.3	PV	0.1
Pipe: 7										
7		23.0	8.2	13.3	29.9	-45.5	2.067	PL 8.3	PF	0.4
8		23.0	8.2	13.7	30.3	6.3	120	FL 0.0	PE	0.0
							0.043	TL 8.3	PV	0.3
Pipe: 8										
8		23.0	8.2	13.7	30.3	-95.8	2.067	PL 8.3	PF	2.5
9		23.0	8.2	16.1	32.9	9.2	120	FL 20.0	PE	0.0
							0.087	TL 28.3	PV	0.6
Pipe: 9										
9		23.0	8.2	16.1	32.9	-128.8	2.067	PL 26.0	PF	6.9
10		21.0	0.0	23.9	0.0	12.3	120	FL 20.0	PE	0.9
							0.150	TL 46.0	PV	1.0
Pipe: 10										
11		21.0	0.0	26.9	0.0	115.1	6.065	PL 9.2	PF	0.0
1		21.0	0.0	26.9	0.0	1.3	120	FL 0.0	PE	0.0
							0.001	TL 9.2	PV	0.0
Pipe: 11										
11		21.0	0.0	26.9	0.0	116.8	2.067	PL 53.0	PF	11.6
12		23.0	8.2	14.4	31.1	11.2	120	FL 40.0	PE	0.9
							0.125	TL 93.0	PV	0.8
Pipe: 12										
12		23.0	8.2	14.4	31.1	85.7	2.067	PL 8.3	PF	0.6
13		23.0	8.2	13.8	30.5	8.2	120	FL 0.0	PE	0.0
							0.071	TL 8.3	PV	0.5
Pipe: 13										
13		23.0	8.2	13.8	30.5	55.2	2.067	PL 8.3	PF	0.3
14		23.0	8.2	13.5	30.2	5.3	120	FL 0.0	PE	0.0
							0.031	TL 8.3	PV	0.2

JOB TITLE: SPORTS AUTHORITY

PIPE DATA (cont'd)

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	F.L./FT	(FT)	SUM.	(PSI)
Pipe: 14					25.1	2.067	PL	8.3	PF	0.2
14	23.0	8.2	13.5	30.2	2.4	120	FL	20.0	PE	0.0
15	23.0	8.2	13.3	29.9		0.007	TL	28.3	PV	0.0
Pipe: 15					-4.9	2.067	PL	8.3	PF	0.0
15	23.0	8.2	13.3	29.9	0.5	120	FL	0.0	PE	0.0
16	23.0	8.2	13.3	29.9		0.000	TL	8.3	PV	0.0
Pipe: 16					-34.8	2.067	PL	8.3	PF	0.1
16	23.0	8.2	13.3	29.9	3.3	120	FL	0.0	PE	0.0
17	23.0	8.2	13.4	30.1		0.013	TL	8.3	PV	0.1
Pipe: 17					-64.9	2.067	PL	8.3	PF	0.3
17	23.0	8.2	13.4	30.1	6.2	120	FL	0.0	PE	0.0
18	23.0	8.2	13.8	30.4		0.042	TL	8.3	PV	0.3
Pipe: 18					-95.3	2.067	PL	8.3	PF	2.4
18	23.0	8.2	13.8	30.4	9.1	120	FL	20.0	PE	0.0
19	23.0	8.2	16.2	33.0		0.086	TL	28.3	PV	0.6
Pipe: 19					-128.3	2.067	PL	26.0	PF	6.9
19	23.0	8.2	16.2	33.0	12.3	120	FL	20.0	PE	0.9
20	21.0	0.0	23.9	0.0		0.149	TL	46.0	PV	1.0
Pipe: 20					128.8	4.026	PL	9.2	PF	0.1
20	21.0	0.0	23.9	0.0	3.2	120	FL	0.0	PE	0.0
10	21.0	0.0	23.9	0.0		0.006	TL	9.2	PV	0.1
Pipe: 21					231.9	6.065	PL	9.2	PF	0.0
21	21.0	0.0	26.9	0.0	2.6	120	FL	0.0	PE	0.0
11	21.0	0.0	26.9	0.0		0.002	TL	9.2	PV	0.0
Pipe: 22					116.6	2.067	PL	53.0	PF	11.6
21	21.0	0.0	26.9	0.0	11.1	120	FL	40.0	PE	0.9
22	23.0	8.2	14.4	31.2		0.125	TL	93.0	PV	0.8
Pipe: 23					85.4	2.067	PL	8.3	PF	0.6
22	23.0	8.2	14.4	31.2	8.2	120	FL	0.0	PE	0.0
23	23.0	8.2	13.9	30.5		0.070	TL	8.3	PV	0.4
Pipe: 24					54.9	2.067	PL	8.3	PF	0.3
23	23.0	8.2	13.9	30.5	5.3	120	FL	0.0	PE	0.0
24	23.0	8.2	13.6	30.2		0.031	TL	8.3	PV	0.2
Pipe: 25					24.7	2.067	PL	8.3	PF	0.2
24	23.0	8.2	13.6	30.2	2.4	120	FL	20.0	PE	0.0
25	23.0	8.2	13.4	30.0		0.007	TL	28.3	PV	0.0
Pipe: 26					-5.3	2.067	PL	8.3	PF	0.0
25	23.0	8.2	13.4	30.0	0.5	120	FL	0.0	PE	0.0
26	23.0	8.2	13.4	30.0		0.000	TL	8.3	PV	0.0

JOB TITLE: SPORTS AUTHORITY

PIPE DATA (cont'd)

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	F.L./FT	(FT)	SUM.	
									(PSI)	
Pipe: 27						-35.3	2.067	PL	8.3	PF
26	23.0	8.2	13.4	30.0	3.4	120	FL	0.0	PE	0.0
27	23.0	8.2	13.5	30.1		0.014	TL	8.3	PV	0.1
Pipe: 28						-65.5	2.067	PL	8.3	PF
27	23.0	8.2	13.5	30.1	6.3	120	FL	0.0	PE	0.0
28	23.0	8.2	13.9	30.5		0.043	TL	8.3	PV	0.3
Pipe: 29						-96.0	2.067	PL	8.3	PF
28	23.0	8.2	13.9	30.5	9.2	120	FL	20.0	PE	0.0
29	23.0	8.2	16.3	33.1		0.087	TL	28.3	PV	0.6
Pipe: 30						-129.1	2.067	PL	26.0	PF
29	23.0	8.2	16.3	33.1	12.3	120	FL	20.0	PE	0.9
30	21.0	0.0	24.1	0.0		0.151	TL	46.0	PV	1.0
Pipe: 31						257.1	4.026	PL	9.2	PF
30	21.0	0.0	24.1	0.0	6.5	120	FL	0.0	PE	0.0
20	21.0	0.0	23.9	0.0		0.021	TL	9.2	PV	0.3
Pipe: 32						348.5	6.065	PL	9.7	PF
31	21.0	0.0	27.0	0.0	3.9	120	FL	0.0	PE	0.0
21	21.0	0.0	26.9	0.0		0.005	TL	9.7	PV	0.1
Pipe: 33						48.9	2.067	PL	96.0	PF
31	21.0	0.0	27.0	0.0	4.7	120	FL	20.0	PE	0.9
32	23.0	8.2	23.2	39.5		0.025	TL	116.0	PV	0.1
Pipe: 34						9.4	2.067	PL	8.3	PF
32	23.0	8.2	23.2	39.5	0.9	120	FL	0.0	PE	0.0
33	23.0	8.2	23.2	39.5		0.001	TL	8.3	PV	0.0
Pipe: 35						-30.1	2.067	PL	8.3	PF
33	23.0	8.2	23.2	39.5	2.9	120	FL	0.0	PE	0.0
34	23.0	0.0	23.3	0.0		0.010	TL	8.3	PV	0.1
Pipe: 36						-30.1	2.067	PL	23.0	PF
34	23.0	0.0	23.3	0.0	2.9	120	FL	20.0	PE	0.9
35	21.0	0.0	24.6	0.0		0.010	TL	43.0	PV	0.1
Pipe: 37						386.2	4.026	PL	9.7	PF
35	21.0	0.0	24.6	0.0	9.7	120	FL	0.0	PE	0.0
30	21.0	0.0	24.1	0.0		0.045	TL	9.7	PV	0.6
Pipe: 38						397.4	6.065	PL	10.3	PF
36	21.0	0.0	27.0	0.0	4.4	120	FL	0.0	PE	0.0
31	21.0	0.0	27.0	0.0		0.006	TL	10.3	PV	0.1
Pipe: 39						31.3	2.067	PL	136.0	PF
36	21.0	0.0	27.0	0.0	3.0	120	FL	40.0	PE	0.0
37	21.0	0.0	25.1	0.0		0.011	TL	176.0	PV	0.1

JOB TITLE: SPORTS AUTHORITY

PIPE DATA (cont'd)

PIPE TAG		ELEV. (FT)	NOZ. (K)	PT (PSI)	DISC. (GPM)	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
END	NODES					VEL(FPS)	HW(C)	(FT)	SUM.	(PSI)
							F.L./FT			
Pipe: 40										
37		21.0	0.0	25.1	0.0	416.3	4.026	PL 10.3	PF	0.5
35		21.0	0.0	24.6	0.0	10.5	120	FL 0.0	PE	0.0
							0.051	TL 10.3	PV	0.7
Pipe: 41										
38		21.0	0.0	27.1	0.0	428.7	6.065	PL 10.3	PF	0.1
36		21.0	0.0	27.0	0.0	4.8	120	FL 0.0	PE	0.0
							0.007	TL 10.3	PV	0.2
Pipe: 42										
38		21.0	0.0	27.1	0.0	27.8	2.067	PL 136.0	PF	1.6
39		21.0	0.0	25.5	0.0	2.7	120	FL 40.0	PE	0.0
							0.009	TL 176.0	PV	0.0
Pipe: 43										
39		21.0	0.0	25.5	0.0	385.0	4.026	PL 10.3	PF	0.5
37		21.0	0.0	25.1	0.0	9.7	120	FL 0.0	PE	0.0
							0.044	TL 10.3	PV	0.6
Pipe: 44										
40		21.0	0.0	27.2	0.0	456.5	6.065	PL 10.3	PF	0.1
38		21.0	0.0	27.1	0.0	5.1	120	FL 0.0	PE	0.0
							0.008	TL 10.3	PV	0.2
Pipe: 45										
40		21.0	0.0	27.2	0.0	24.7	2.067	PL 136.0	PF	1.2
41		21.0	0.0	25.9	0.0	2.4	120	FL 40.0	PE	0.0
							0.007	TL 176.0	PV	0.0
Pipe: 46										
41		21.0	0.0	25.9	0.0	357.2	4.026	PL 10.3	PF	0.4
39		21.0	0.0	25.5	0.0	9.0	120	FL 0.0	PE	0.0
							0.039	TL 10.3	PV	0.5
Pipe: 47										
42		21.0	0.0	27.3	0.0	481.2	6.065	PL 10.3	PF	0.1
40		21.0	0.0	27.2	0.0	5.3	120	FL 0.0	PE	0.0
							0.009	TL 10.3	PV	0.2
Pipe: 48										
42		21.0	0.0	27.3	0.0	21.8	2.067	PL 136.0	PF	1.0
43		21.0	0.0	26.3	0.0	2.1	120	FL 40.0	PE	0.0
							0.006	TL 176.0	PV	0.0
Pipe: 49										
43		21.0	0.0	26.3	0.0	332.5	4.026	PL 10.3	PF	0.3
41		21.0	0.0	25.9	0.0	8.4	120	FL 0.0	PE	0.0
							0.034	TL 10.3	PV	0.5
Pipe: 50										
44		21.0	0.0	27.4	0.0	503.0	6.065	PL 10.3	PF	0.1
42		21.0	0.0	27.3	0.0	5.6	120	FL 0.0	PE	0.0
							0.010	TL 10.3	PV	0.2
Pipe: 51										
44		21.0	0.0	27.4	0.0	19.3	2.067	PL 136.0	PF	0.8
45		21.0	0.0	26.6	0.0	1.8	120	FL 40.0	PE	0.0
							0.004	TL 176.0	PV	0.0
Pipe: 52										
45		21.0	0.0	26.6	0.0	310.7	4.026	PL 10.3	PF	0.3
43		21.0	0.0	26.3	0.0	7.8	120	FL 0.0	PE	0.0
							0.030	TL 10.3	PV	0.4

JOB TITLE: SPORTS AUTHORITY

PIPE DATA (cont'd)

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES		(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	(FT)	SUM.	
							F.L./FT		(PSI)	
	Pipe: 53					522.3	6.065	PL 10.3	PF	0.1
46		21.0	0.0	27.5	0.0	5.8	120	FL 0.0	PE	0.0
44		21.0	0.0	27.4	0.0		0.011	TL 10.3	PV	0.2
	Pipe: 54					17.0	2.067	PL 136.0	PF	0.5
46		21.0	0.0	27.5	0.0	1.6	120	FL 40.0	PE	0.0
47		21.0	0.0	26.9	0.0		0.004	TL 176.0	PV	0.0
	Pipe: 55					291.4	4.026	PL 10.3	PF	0.3
47		21.0	0.0	26.9	0.0	7.3	120	FL 0.0	PE	0.0
45		21.0	0.0	26.6	0.0		0.026	TL 10.3	PV	0.4
	Pipe: 56					539.2	6.065	PL 10.3	PF	0.1
48		21.0	0.0	27.6	0.0	6.0	120	FL 0.0	PE	0.0
46		21.0	0.0	27.5	0.0		0.011	TL 10.3	PV	0.2
	Pipe: 57					15.0	2.067	PL 136.0	PF	0.5
48		21.0	0.0	27.6	0.0	1.4	120	FL 40.0	PE	0.0
49		21.0	0.0	27.1	0.0		0.003	TL 176.0	PV	0.0
	Pipe: 58					274.4	4.026	PL 10.3	PF	0.2
49		21.0	0.0	27.1	0.0	6.9	120	FL 0.0	PE	0.0
47		21.0	0.0	26.9	0.0		0.024	TL 10.3	PV	0.3
	Pipe: 59					554.3	6.065	PL 10.3	PF	0.1
50		21.0	0.0	27.7	0.0	6.2	120	FL 0.0	PE	0.0
48		21.0	0.0	27.6	0.0		0.012	TL 10.3	PV	0.3
	Pipe: 60					13.3	2.067	PL 136.0	PF	0.4
50		21.0	0.0	27.7	0.0	1.3	120	FL 40.0	PE	0.0
51		21.0	0.0	27.3	0.0		0.002	TL 176.0	PV	0.0
	Pipe: 61					259.4	4.026	PL 10.3	PF	0.2
51		21.0	0.0	27.3	0.0	6.5	120	FL 0.0	PE	0.0
49		21.0	0.0	27.1	0.0		0.021	TL 10.3	PV	0.3
	Pipe: 62					567.6	6.065	PL 10.3	PF	0.1
52		21.0	0.0	27.8	0.0	6.3	120	FL 0.0	PE	0.0
50		21.0	0.0	27.7	0.0		0.012	TL 10.3	PV	0.3
	Pipe: 63					12.0	2.067	PL 136.0	PF	0.3
52		21.0	0.0	27.8	0.0	1.1	120	FL 40.0	PE	0.0
53		21.0	0.0	27.5	0.0		0.002	TL 176.0	PV	0.0
	Pipe: 64					246.1	4.026	PL 10.3	PF	0.2
53		21.0	0.0	27.5	0.0	6.2	120	FL 0.0	PE	0.0
51		21.0	0.0	27.3	0.0		0.019	TL 10.3	PV	0.3
	Pipe: 65					579.5	6.065	PL 10.3	PF	0.1
54		21.0	0.0	28.0	0.0	6.4	120	FL 0.0	PE	0.0
52		21.0	0.0	27.8	0.0		0.013	TL 10.3	PV	0.3

JOB TITLE: SPORTS AUTHORITY

PIPE DATA (cont'd)

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	F.L./FT	(FT)	SUM.	
									(PSI)	
Pipe: 66										
54	21.0	0.0	28.0	0.0	10.9	2.067	FL	136.0	PF	0.3
55	21.0	0.0	27.7	0.0	1.0	120	FL	40.0	PE	0.0
						0.002	TL	176.0	PV	0.0
Pipe: 67										
55	21.0	0.0	27.7	0.0	234.1	4.026	FL	10.3	PF	0.2
53	21.0	0.0	27.5	0.0	5.9	120	FL	0.0	PE	0.0
						0.018	TL	10.3	PV	0.2
Pipe: 68										
56	21.0	0.0	28.1	0.0	590.5	6.065	FL	10.3	PF	0.1
54	21.0	0.0	28.0	0.0	6.6	120	FL	0.0	PE	0.0
						0.013	TL	10.3	PV	0.3
Pipe: 69										
56	21.0	0.0	28.1	0.0	10.3	2.067	FL	136.0	PF	0.2
57	21.0	0.0	27.9	0.0	1.0	120	FL	40.0	PE	0.0
						0.001	TL	176.0	PV	0.0
Pipe: 70										
57	21.0	0.0	27.9	0.0	223.2	4.026	FL	10.3	PF	0.2
55	21.0	0.0	27.7	0.0	5.6	120	FL	0.0	PE	0.0
						0.016	TL	10.3	PV	0.2
Pipe: 71										
58	21.0	0.0	28.3	0.0	600.8	6.065	FL	10.3	PF	0.1
56	21.0	0.0	28.1	0.0	6.7	120	FL	0.0	PE	0.0
						0.014	TL	10.3	PV	0.3
Pipe: 72										
58	21.0	0.0	28.3	0.0	10.0	2.067	FL	136.0	PF	0.2
59	21.0	0.0	28.0	0.0	1.0	120	FL	40.0	PE	0.0
						0.001	TL	176.0	PV	0.0
Pipe: 73										
59	21.0	0.0	28.0	0.0	212.9	4.026	FL	10.3	PF	0.2
57	21.0	0.0	27.9	0.0	5.4	120	FL	0.0	PE	0.0
						0.015	TL	10.3	PV	0.2
Pipe: 74										
60	21.0	0.0	28.4	0.0	610.8	6.065	FL	10.3	PF	0.1
58	21.0	0.0	28.3	0.0	6.8	120	FL	0.0	PE	0.0
						0.014	TL	10.3	PV	0.3
Pipe: 75										
60	21.0	0.0	28.4	0.0	10.2	2.067	FL	136.0	PF	0.2
61	21.0	0.0	28.2	0.0	1.0	120	FL	40.0	PE	0.0
						0.001	TL	176.0	PV	0.0
Pipe: 76										
61	21.0	0.0	28.2	0.0	202.8	4.026	FL	10.3	PF	0.1
59	21.0	0.0	28.0	0.0	5.1	120	FL	0.0	PE	0.0
						0.014	TL	10.3	PV	0.2
Pipe: 77										
62	21.0	0.0	28.5	0.0	621.0	6.065	FL	10.3	PF	0.1
60	21.0	0.0	28.4	0.0	6.9	120	FL	0.0	PE	0.0
						0.015	TL	10.3	PV	0.3
Pipe: 78										
62	21.0	0.0	28.5	0.0	10.7	2.067	FL	136.0	PF	0.3
63	21.0	0.0	28.3	0.0	1.0	120	FL	40.0	PE	0.0
						0.002	TL	176.0	PV	0.0

JOB TITLE: SPORTS AUTHORITY

PIPE DATA (cont'd)

PIPE TAG	END	ELEV.	NOZ.	PT	DISC.	Q(GPM)	DIA(IN)	LENGTH	PRESS.	
NODES	(FT)	(K)	(PSI)	(GPM)	VEL(FPS)	HW(C)	F.L./FT	(FT)	SUM.	
									(PSI)	
Pipe: 79						192.6	4.026	PL 10.3	PF	0.1
63	21.0	0.0	28.3	0.0	4.9	120	FL	0.0	PE	0.0
61	21.0	0.0	28.2	0.0		0.012	TL	10.3	PV	0.2
Pipe: 80						631.7	6.065	PL 10.3	PF	0.2
64	21.0	0.0	28.7	0.0	7.0	120	FL	0.0	PE	0.0
62	21.0	0.0	28.5	0.0		0.015	TL	10.3	PV	0.3
Pipe: 81						11.6	2.067	PL 136.0	PF	0.3
64	21.0	0.0	28.7	0.0	1.1	120	FL	40.0	PE	0.0
65	21.0	0.0	28.4	0.0		0.002	TL	176.0	PV	0.0
Pipe: 82						181.9	4.026	PL 10.3	PF	0.1
65	21.0	0.0	28.4	0.0	4.6	120	FL	0.0	PE	0.0
63	21.0	0.0	28.3	0.0		0.011	TL	10.3	PV	0.1
Pipe: 83						643.3	6.065	PL 10.3	PF	0.2
66	21.0	0.0	28.9	0.0	7.1	120	FL	0.0	PE	0.0
64	21.0	0.0	28.7	0.0		0.016	TL	10.3	PV	0.3
Pipe: 84						12.0	2.067	PL 136.0	PF	0.4
66	21.0	0.0	28.9	0.0	1.1	120	FL	60.0	PE	0.0
67	21.0	0.0	28.5	0.0		0.002	TL	196.0	PV	0.0
Pipe: 85						170.3	4.026	PL 10.3	PF	0.1
67	21.0	0.0	28.5	0.0	4.3	120	FL	0.0	PE	0.0
65	21.0	0.0	28.4	0.0		0.010	TL	10.3	PV	0.1
Pipe: 86						655.3	6.065	PL 10.3	PF	0.2
68	21.0	0.0	29.0	0.0	7.3	120	FL	0.0	PE	0.0
66	21.0	0.0	28.9	0.0		0.016	TL	10.3	PV	0.4
Pipe: 87						13.3	2.067	PL 136.0	PF	0.4
68	21.0	0.0	29.0	0.0	1.3	120	FL	60.0	PE	0.0
69	21.0	0.0	28.6	0.0		0.002	TL	196.0	PV	0.0
Pipe: 88						158.3	4.026	PL 10.3	PF	0.1
69	21.0	0.0	28.6	0.0	4.0	120	FL	0.0	PE	0.0
67	21.0	0.0	28.5	0.0		0.009	TL	10.3	PV	0.1
Pipe: 89						663.7	6.065	PL 10.3	PF	0.2
70	21.0	0.0	29.2	0.0	7.4	120	FL	0.0	PE	0.0
68	21.0	0.0	29.0	0.0		0.017	TL	10.3	PV	0.4
Pipe: 90						14.8	2.067	PL 136.0	PF	0.5
70	21.0	0.0	29.2	0.0	1.4	120	FL	60.0	PE	0.0
71	21.0	0.0	28.7	0.0		0.003	TL	196.0	PV	0.0
Pipe: 91						145.0	4.026	PL 10.3	PF	0.1
71	21.0	0.0	28.7	0.0	3.7	120	FL	0.0	PE	0.0
69	21.0	0.0	28.6	0.0		0.007	TL	10.3	PV	0.1

JOB TITLE: SPORTS AUTHORITY

PIPE DATA (cont'd)

PIPE TAG	END NODES	ELEV. (FT)	NOZ. (K)	PT (PSI)	DISC. (GPM)	Q(GPM) VEL(FPS)	DIA(IN) HW(C) F.L./FT	LENGTH (FT)	PRESS. SUM. (PSI)
Pipe: 92						683.5	6.065	PL 10.3	PF 0.2
72		21.0	0.0	29.4	0.0	7.6	120	FL 0.0	PE 0.0
70		21.0	0.0	29.2	0.0		0.017	TL 10.3	PV 0.4
Pipe: 93						16.5	2.067	PL 136.0	PF 0.7
72		21.0	0.0	29.4	0.0	1.6	120	FL 60.0	PE 0.0
73		21.0	0.0	28.7	0.0		0.003	TL 196.0	PV 0.0
Pipe: 94						130.2	4.026	PL 10.3	PF 0.1
73		21.0	0.0	28.7	0.0	3.3	120	FL 0.0	PE 0.0
71		21.0	0.0	28.7	0.0		0.006	TL 10.3	PV 0.1
Pipe: 95						700.0	6.065	PL 58.0	PF 2.1
74		21.0	0.0	31.5	0.0	7.8	120	FL 58.0	PE 0.0
72		21.0	0.0	29.4	0.0		0.018	TL 116.0	PV 0.4
Pipe: 96						113.7	6.065	PL 2.0	PF 0.0
74		21.0	0.0	31.5	0.0	1.3	120	FL 30.0	PE 0.0
75		21.0	0.0	31.5	0.0		0.001	TL 32.0	PV 0.0
Pipe: 97						38.0	2.067	PL 92.0	PF 2.7
75		21.0	0.0	31.5	0.0	3.6	120	FL 80.0	PE 0.0
76		21.0	0.0	28.8	0.0		0.016	TL 172.0	PV 0.1
Pipe: 98						113.7	4.026	PL 9.7	PF 0.0
76		21.0	0.0	28.8	0.0	2.9	120	FL 0.0	PE 0.0
73		21.0	0.0	28.7	0.0		0.005	TL 9.7	PV 0.1
Pipe: 99						75.6	6.065	PL 9.0	PF 0.0
75		21.0	0.0	31.5	0.0	0.8	120	FL 0.0	PE 0.0
77		21.0	0.0	31.5	0.0		0.000	TL 9.0	PV 0.0
Pipe: 100						37.9	2.067	PL 92.0	PF 2.7
77		21.0	0.0	31.5	0.0	3.6	120	FL 80.0	PE 0.0
78		21.0	0.0	28.8	0.0		0.016	TL 172.0	PV 0.1
Pipe: 101						75.7	4.026	PL 9.0	PF 0.0
78		21.0	0.0	28.8	0.0	1.9	120	FL 0.0	PE 0.0
76		21.0	0.0	28.8	0.0		0.002	TL 9.0	PV 0.0
Pipe: 102						37.8	6.065	PL 9.0	PF 0.0
77		21.0	0.0	31.5	0.0	0.4	120	FL 0.0	PE 0.0
79		21.0	0.0	31.5	0.0		0.000	TL 9.0	PV 0.0
Pipe: 103						37.8	2.067	PL 92.0	PF 2.7
79		21.0	0.0	31.5	0.0	3.6	120	FL 80.0	PE 0.0
80		21.0	0.0	28.8	0.0		0.016	TL 172.0	PV 0.1
Pipe: 104						37.8	4.026	PL 9.0	PF 0.0
80		21.0	0.0	28.8	0.0	1.0	120	FL 0.0	PE 0.0
78		21.0	0.0	28.8	0.0		0.001	TL 9.0	PV 0.0

JOB TITLE: SPORTS AUTHORITY

WATER SUPPLY CURVE

