



007-000375

150, Allaire Ave.

Tel. (908) 461-4556

street

Private

Tel. (732) 302-9591

FAX: (____)

Tel. ()

Contact

— Contact —
T. 2

FAX: (408) 213-9789

FAX: (136) 306-1111

This is Branch Brook Pools

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

1. Number of Stories _____
2. Height of Structure _____
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 _____
 no _____
11. Max. Live Load _____
12. Max. Occupancy Load _____

1. ☐ Minor Work
2. ☐ New Building
3. ☐ Addition
4. ☐ a. Repair
☐ b. Alteration
☐ c. Renovation
☐ d. Reconstruction
5. ☒ Fire Protection
6. ☐ Plumbing
7. ☒ Electrical
8. ☐ Elevator Devices
9. ☐ Asbestos Abat. Subch. 8
10. ☐ Lead Hazard Abatement
11. ☒ Demolition

TOTAL COSTS

1. ☐ Partial Releases

2. ☐ Prototype Processing

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

A.RESIDENTIAL

1. State Specific Use:
2. Use Group:
3. Change in Use Group, indicate Former:
4. No. of dwelling units: All Units Income Restricted

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:



FIRE PROTECTION SUBCODE TECHNICAL SECTION

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 1170 Lot 10.05 Qualification Code _____
Work Site Location 1686 RT 68 W BRICK N.J.

Owner in Fee _____
Address 100 SANDRINO DR MANCHESTER CT 06040
Tel (866) 649-3606
Contractor J. P. P. & Sons Mechanical Contr.
Address 334 SILVER LAKE DR TOWN RIVER NJ
Tel (732) 864-9503 FAX () 115694
Fire Protection Equipment, NJ Div of Fire Safety Permit No. 156694
Fire Protection Equipment, NJ Div of Fire Safety Installer No. C2-F55
Fire Alarm Contractor No. _____
Federal Emp. No. 22-2446-024

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present _____ Proposed _____ Fire Alarm System: [] New OR [] Existing
Constr. Class: Present _____ Proposed _____ Location of Panel: _____
Heating System: [] New OR [] Existing [] HVAC Fire Suppression/Standpipe System: _____
Type: [] Gas [] Oil [] Electric [] Solar [] New OR [] Existing
[] Other _____ Location of Main Control Valve: Left Corner
Location: _____

Fuel Storage Tank:

Fuel Type: [] Flammable OR [] Combustible Capacity _____

Total Cost of Fire Protection Work \$ 5,000.

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

Joint Plan Review Required:

[] Building [] Plumbing

[] Electric [] Elevator

[x] Fire Plans Approved

Date: 2-13-07

Approved by: [Signature]

SUBCODE APPROVAL

[] CO [] CCO [] CA

Date: 10-2-07

Approved by: [Signature]

INSPECTIONS

Type:	Failure	Failure	Approval	Initial
Alarm System				
Suppression Sys.				
Standpipe				
Fire Pump				
Pre-Eng. System				
Mechanical				
Smoke Control				
TCO				
Flam/Combust Tanks				
Fireplace Venting				
Final				
Other				



Date Received

Control #

Date Issued

Permit #

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Applicant's Signature/Contractor's Signature

[x] Certified Contractor

[] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK: RAISE 4" SPRINKLER MAIN AND 14" BRANCH LINE ABOVE NEW CEILING.

Water Supply Source Town

Method of Alarm/Suppression System Supervision _____

NUMBER

FEE (Office Use Only)

Flammable/Combustible Tanks

Alarm Systems

[] System

[] 110v Interconnected

[] CO Detectors/110v

Alarm Devices (i.e., smoke, heat, pulls, water/flow)

Supervisory Devices (i.e., tampers, low/high air)

Signaling Devices (i.e., horn/strobes, bells)

Other Devices _____

TOTAL

Suppression Systems

Fire Pump _____ GPM Type _____

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet) Replace 48

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO₂ Suppression

Foam Suppression

FM200 Suppression

Other _____

Other Systems

Kitchen Hood Exhaust System

Smoke Control System

Fired Appliances [] Gas OR [] Oil

Fireplace Venting/Metal Chimney

Other _____

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$

U.C.C.F140
(rev. 1/04)

1 White = Inspector Copy
3 Pink = Office Copy

2 Canary = Office Copy
4 Gold = Applicant Copy

CERTIFICATION IN LIEU OF OATH

I. 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 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 Precision Bldg. & Const LLC

Address 941 E. Main St

Bridgewater N.J.

Telephone (232) 302-9595

Signature [Signature]

III. ☐ LEAD HAZARD ABATEMENT: include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

Stock area pendant heads should be upright
uprights to low around rack storage
old restrooms **COMMERCIAL**

head in back room under mezz. to be replaced.

Floor area need escution plates,

office over pendant heads. no ceiling
need 2 hrs. test

need insp. report certifying system.

all ceiling tiles in place. unable to inspect piping (floor area)

need sprinklers closet under mezz., ~~the west side of the building~~
of main sales desk. head to be added outside.

5-1807 met w/ Ed Smith from Branchbrook Corp.
ref to above.

① Feen

MEMO TO FILE
Ref: Branch Brook Pools
1686 Route 88 West
Block: 1170 Lot: 10.03
May 18, 2007

On Thursday May 17, 2007 at 10:00am I met with Edward Smith, director of facilities, regarding permit #07-0206, for reference to work on the sprinkler system during renovations. While on site I was advised by Ed Smith that the construction company, Precision Builders were no longer contracted by himself and he was going to be getting a new contractor to do all the remaining work to the sprinkler system to the building. Once done speaking with Ed we then walked the facility to go over some maintenance issues that also needed to be corrected. I cleared from the scene at approximately 11:30am this same date

RJP/kb



**FIRE PROTECTION SUBCODE
TECHNICAL SECTION**

Change of

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 1170 Lot 10.03 Qualification Code
Work Site Location 1686 Rt. 88 Brick N.J. 08724-

Owner in Fee Branch Brook Pool 3030

Address 1686 Rt. 88 Brick N.J.

Tel () 333-9211 FAX () 331-1690

Contractor Bravante Automatic Sprinkler Corp.

Address 333 West Main St. Boonton N.J. 07005

Tel () 973-331-9211 FAX () 973-331-1690

Fire Protection Equipment, NJ Div of Fire Safety Permit No. # P00133

Fire Protection Equipment, NJ Div of Fire Safety Installer No. 153959

Federal Emp. No. 22-368-5020

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present Proposed Fire Alarm System: [] New or [X] Existing

Constr. Class: Present Proposed Location of Panel: Fire Suppression/Standpipe System:

Heating System: [] New or [] Existing [] HVAC [] New or [] Existing

Type: [] Gas [] Oil [] Electric [] Solar [] New or [] Existing

Location: [] Other Location of Main Control Valve:

Fuel Storage Tank: Flammable or [] Combustible Capacity

Fuel Type: [] Flammable or [] Combustible

Total Cost of Fire Protection Work \$

JOB SUMMARY (Office Use Only)

PLAN REVIEW [X] No Plans Required [] Plans Required

Joint Plan Review Required: [] Building [] Plumbing [] Electric [] Elevator

Date: 7/28/07 Approved by: [Signature]

SUBCODE APPROVAL [] CO [] CCO [] DCA



COINTEGRATOR
only
Date Received 07-02-00
Control # 74

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner and am authorized to make this application. [Signature]

Applicant's Signature/Contractor's Signature [] Exempt Applicant

D. TECHNICAL SITE DATA Relocate branch lines to pitch of roof for proper head coverage

Water Supply Source 4"

Method of Alarm/Suppression System Supervision Flow Switch/Tamper

Flammable/Combustible Tanks

Alarm Systems [] System [] 110v Interconnected [] CO Detectors/110v

Alarm Devices (i.e., smoke, heat, pulls, water/flow)

Supervisory Devices (i.e., tampers, low/high air)

Signaling Devices (i.e., horns/strobes, bells)

Other Devices

TOTAL

Suppression Systems

Fire Pump GPM Type

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO₂ Suppression

Foam Suppression

FM200 Suppression

Date Issued
Permit #

Administrative Surcharge \$

Minimum Fee \$

State Permit Surcharge Fee \$

TOTAL FEE \$

1 White = Inspector Copy

2 Canary = Office Copy

3 Pink = Office Copy

4 Gold = Applicant Copy

Bravante Automatic Sprinkler Corp.

Protecting Life and Property
333 West Main Street
Boonton, New Jersey 07005
Phone 973-331-9211 Fax 973-331-1690

000133

REPORT OF FIRE SPRINKLER SYSTEM INSPECTION

INSPECTION REPORT #

1

PAGE 1 OF 2

REPORT TO: Branch Brook Pools				LOCATION INSPECTED: Branch Brook			
STREET: 100 Sanrico Drive				1686 Route 88 West, Brick N.J.			
CITY / STATE / ZIP: Manchester, Conn. 06042				INSPECTOR: George Bender			
ATTENTION: Ed Smith				DATE: 9-7-07			

1. GENERAL		YES	N/A	NO
(To be answered by the Owner or Owner's representative)				
a.	Have there been any changes in the occupancy classification, machinery or operations since the last inspection?			X
b.	Have there been any changes or repairs to the fire protection systems since the last inspection?			X
c.	If a fire has occurred since the last inspection, have all damaged sprinkler system components been replaced?		X	
d.	Has the piping in all dry systems been checked for proper pitch within the past five years?		X	
	Date last checked? (Checking is recommended at least every 5 years)		X	
e.	Has the piping in all systems been checked for obstructive materials?		X	
	Date last checked? (Checking is recommended at least every 5 years)		X	
f.	Have all fire pumps been tested to their full capacity through the use of hose streams or flow meters within the past 12 months?		X	
g.	Are gravity, surface or pressure tanks protected from freezing?		X	
h.	Are any of the sprinklers 50 years old or older? (Testing and/or replacement are recommended for such sprinklers?)			X
i.	Are any extra high temperature solder sprinklers regularly exposed to temperatures near 300°F?		X	
B. (To be answered by the inspector)				
a.	Have the sprinkler systems been extended to all visible areas of the building?	X		
b.	Does there appear to be proper clearance between the top of all storage and the sprinkler deflector?	X		
c.	Are the building areas protected by a wet system, heated, including its blind attics and perimeter areas, where accessible?	X		
d.	Are all visible exterior openings protected against the entrance of cold air?	X		

2. CONTROL VALVES													
a.	Are all sprinkler system main control valves and all other valves in the appropriate open or closed position?												
b.	Are all control valves sealed or supervised in the open position?												

LOCATION OF VALVES	NO. OF VALVES	TYPE OF Control VALVE	Easily Accessible		Signs Installed		Valves Open		Secured Sealed/Locked/Supvd.			Supervision Operational	
			Yes	No	Yes	No	Yes	No	Yes	No	How	Yes	No
CITY CONNECTION	X												
VAULT	X												
PUMP	X												
SECTIONAL	X												
SYSTEM	2	O.S. & Y.	X			X		X		X		SUP	X

3. WATER SUPPLIES													
a. Water supply source? CITY													

Waterflow Test Results Made During This Inspection									
Test Pipe Located	Size Test Pipe	Static Pressure Before	Flow Pressure	Static Pressure After	Test Pipe Location	Size Test Pipe	Static Pressure Before	Flow Pressure	Static Pressure After
Riser	2"	70	55	65					

REPORT OF FIRE SPRINKLER SYSTEM INSPECTION

INSPECTION REPORT #

PAGE 2 OF 2

4. TANKS, PUMPS, FIRE DEPARTMENT CONNECTIONS					YES	N/A	NO
a.	Do fire pumps, gravity, surface or pressure tanks appear to be in good external condition?					X	
b.	Are gravity, surface and pressure tanks at the proper pressure and/or water levels?					X	
c.	Are fire dept. Connections in satisfactory condition, couplings free, caps or plugs in place and check valves tight?				X		
d.	Are fire dept. Connections visible and accessible?				X		
5. WET SYSTEMS							
a.	No. of 1 Make & Model 6" Star						
b.	Are cold weather valves in the appropriate open or closed position?					X	
c.	Has the owner or owner's representative been advised that cold weather valves are not recommended by NFPA?					X	
d.	Have all the antifreeze systems been tested?					X	
e.	Date antifreeze systems were tested						
f.	The antifreeze tests indicate protection to						
	System	#1	#2	#3	#4	#5	
g.	Did alarm valves, waterflow alarm indicators and retards test satisfactorily?				X		
6. DRY SYSTEMS							
a.	No. Of Systems? Make & Model: Date last trip tested:						
b.	Is the air pressure and priming water level(s) normal?					X	
c.	Did the air compressor operate satisfactorily?					X	
d.	Were all low points drained during the inspection?					X	
e.	Did all quick opening devices operate satisfactorily?					X	
f.	Did all the dry valves operate satisfactorily during the inspection?					X	
g.	Do dry valves appear to be protected from freezing?						
h.	Is the dry valve house heated?					X	
7. ALARMS							
a.	Did the water motors and gong operate during testing?					X	
b.	Did the electric alarms operate during testing?				X		
c.	Did the supervisory alarms operate during testing?				X		
8. SPRINKLERS - PIPING							
a.	Do sprinklers generally appear to be in good external condition?				X		
b.	Do sprinklers generally appear to be free of corrosion, paint or loading and visible obstructions?				X		
c.	Are extra sprinkler available on the premises?				X		
d.	Does the exterior condition of piping, drain valves, check valves, hangers, pressure gauges, open sprinklers and strainers appear to be satisfactory.				X		
e.	Does the hand hose on the sprinkler system appear to be in satisfactory condition?					X	
9. EXPLANATION OF "NO" ANSWERS (For Sections 1b thru 8e).							
There are heads needed under the HVAC air ducts.							
There are some heads that are painted and old.							
There are heads in the back warehouse that are to low from the roof deck.							



PERMIT UPDATE

Date Update Issued 2/27/2007
Control # C-07-000591
Permit # 07-0206+B

IDENTIFICATION Block: 1170 Lot: 10.03 Qualifier _____
Work Site Location: 1686 ROUTE 88 WEST 150 ALLAIRE AVENUE Contractor PRECISION BLDG & CONS LLC
Brick Township, NJ Address 941 E MAIN STREET BRIDGEWATER NJ
Owner in Fee WKR INVESTMENTS% M DAVIS, CONTROLLER
Address 313 REGINA AVE RAHWAY NJ 07065 Telephone: (732) 302-9595
Telephone: _____ Lic. No. or Bldrs. Reg. No. _____
Federal Employee No. 22-3363420

Is hereby granted permission to perform the following work:

- | | | |
|--|--|--|
| ☒ BUILDING | ☐ PLUMBING | ☐ LEAD HAZARD ABATEMENT |
| ☐ ELECTRICAL | ☐ FIRE PROTECTION | ☐ DEMOLITION |
| ☐ ELEVATOR DEVICES | ☐ ASBESTOS ABATEMENT
(Subchapter 8 only) | ☐ OTHER |

DESCRIPTION OF WORK:

ALTERATION REMOVE EXISTING SLOT - BOARD AND PEG BOARDS FROM WALLS,
SPACKLE AND PAINT, CHANGE CEILING TILES AND ELECTRICAL LIGHTS. UPDATE +B
FRAME WALLS OVER EXST. STORE FRONT, BUILD BREAKRM & SERVICE RM, PARTITIONS,
2 DOORS, FINISH TRIM.

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 \$4,500

Construction Official _____

Date _____

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$108
Electrical	\$0
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$6
CO Fee	
Other	\$0
Total	\$114
Check No.	1018
Cash	\$0
Credit	\$0
Collected By	Inspection Account

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

CAM DESIGN GROUP ARCHITECTS

155 Route 94 • Blairstown, New Jersey 07825 • 908-362-7212 • FAX 908-362-7265

TO:	Frank Mizer	FROM:	Chuck Maillet
FAX NUMBER:	732-262-8954	DATE:	2/21/07
COMPANY:		TOTAL NO. OF PAGES INCLUDING COVER:	2
PHONE NUMBER:	732-262-1008	SENDER'S REFERENCE NUMBER:	
RE:	NAMCO	YOUR REFERENCE NUMBER:	

☐ URGENT ☒ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY
☐ PER YOUR REQUEST ☒ PLEASE SEE ATTACHED ☐ CALL TO CONFIRM RECEIPT

NOTES/COMMENTS:

[illegible]

ORIGINAL SENT VIA:

U.S. MAIL

☐ **FED-EX**

☐ OTHER

☐ NOT SENT

CAM

CAM DESIGN GROUP ARCHITECTS

155 Route 94 • Blairstown, New Jersey 07825 • 908-362-7212 • FAX 908-362-7265

February 20, 2007

Mr. Frank Mizer
Construction Official
Brick Township
Municipal Building
401 Chambers Bridge Road
Brick Township, NJ 08723

Re: NAMCO Inc, LLC
Interior Alterations
Block 1170, Lots 10.03, 11, 12
Project No: C07-03

Dear Mr. Mizer:

Please accept this letter in reference to the construction project at the above store location for NAMCO in Brick Township.

The interior partition wall to be constructed at the planned "break room" shall be constructed to the underside and attached to the new suspended acoustical ceiling grid.

Please call should you have any questions.

Sincerely yours,
CAM Design Group Architects



Charles A. Maillet, AIA

cc: Bill Atkins, NAMCO

*How is fresh Air Pen-OK
introduced?
Called 1:35
Left Message*

Elect

Fire

Plumbing

(Please mark subcode)

CONTROL NUMBER 000375

TOWNSHIP OF BRICK
APPLICATION REVIEW PROCESS

(1686 R788)

ADDRESS OF APPLICATION: 150 Allaire Ave (Branch Brook Pk)

DATE REVIEWED: 2-20-07

REVIEWED BY: FM

CONTACT CALLED/FAXED: 558-3294 Jamie" LEFT message

① Application Notes New Room To 130 Break Room.

No Details Counter? Retain? Sink?

Must provide Required CFM Fresh Air Per Rehab Code

Waiting for letter

Architects Jamie on 2-20-07

per 25. on

2-25



PERMIT UPDATE

Date Update Issued 2/13/2007
Control # C-07-000419
Permit # 07-0206+A

IDENTIFICATION Block: 1170 Lot: 10.03 Qualifier
Work Site Location: 1686 ROUTE 88 WEST Brick Township, NJ Contractor PRECISION BLDG & CONS LLC
Address 941 E MAIN STREET BRIDGEWATER NJ
Owner in Fee WKR INVESTMENTS% M DAVIS, CONTROLLER
Address 313 REGINA AVE RAHWAY NJ 07065 Telephone: (732) 302-9595
Lic. No. or Bldrs. Reg. No.
Telephone: Federal Employee No. 22-3363420

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☐ ELECTRICAL ☒ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

FIRE ALTERATIONS REMOVE EXISTING SLOT - BOARD AND PEG BOARDS FROM WALLS,
SPACKLE AND PAINT, CHANGE CEILING TILES AND ELECTRICAL LIGHTS.
UPDATE +A REPLACE WET SPRINKLER HEADS.

Note: If construction does not commence within one (1) year of date of issuance, or it
construction ceases for a period of six (6) months, this permit is void.
Estimated Cost of Work \$5,000

Construction Official

Date

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$0
Plumbing	\$0
Fire Protection	\$130
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$7
CO Fee	
Other	\$0
Total	\$137
Check No.	10597
Cash	\$0
Credit	\$0
Collected By	Inspection Account

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- ☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and/or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- ☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- ☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- ☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.

Bldg

Elect

Fire

Plumbing

(Please mark subcode)

CONTROL NUMBER 060419

TOWNSHIP OF BRICK
APPLICATION REVIEW PROCESS

ADDRESS OF APPLICATION: 4086 rt. 55 W.

DATE REVIEWED: 2-5-07

REVIEWED BY: Ann Gister

CONTACT CALLED/FAXED: Spoke w/ President of Const. Council 2-2-07

1) need hydraulic codes.

J. PECORA & SONS
MECHANICAL CONTRACTORS
334 Silver Lagoon Drive
Toms River, New Jersey 08753
(732) 864-9503

ATT: Stephanie

THIS DOCUMENT IS PRINTED ON WATERMARKED PAPER WITH A MULTI-COLORED
BACKGROUND AND MULTIPLE SECURITY FEATURES. PLEASE VERIFY AUTHENTICITY



State of New Jersey
Department of Community Affairs
Division of Fire Safety



Hereby Issues To

ANTHONY PECORA

The Following Certification As

FIRE SPRINKLER SYSTEM

02/24/2004 to 04/30/2007

Issue Date Lapse Date

155694

ID Number

Susan B. Linn
Commissioner

Thank you,
Anthony Pecora

Brick Township401 Chambersbridge Rd
Brick, NJ 08723

(732) 262-1027



Payment Date 2/2/2007

Transaction # PMT-07-00

Receipt # 482

Issued To

Description

Date Printed 2/2/2007

Cash	\$0.00
Check	\$4,000.00
Charge	\$0.00
Total	\$4,000.00

02/02/07 12:59PM 001558#2072

XX02 SERV.002

#0206

PENALTY

\$4000.00

CHECK

~~\$4000.00~~



CONSTRUCTION PERMIT

Date Issued 2/2/2007
Control # C-07-000375
Permit # 07-0206

IDENTIFICATION Block: 1170 Lot: 10.03 Qualifier _____
Work Site Location: 1686 ROUTE 88 WEST Brick Township, NJ Contractor PRECISION BLDG & CONS LLC
Address 941 E MAIN STREET BRIDGEWATER NJ
Owner in Fee WKR INVESTMENTS% M DAVIS, CONTROLLER
Address 313 REGINA AVE RAHWAY NJ 07065 Telephone: (732) 302-9595
Telephone: _____ Lic. No. or Bldrs. Reg. No. _____
Federal Employee No. 22-3363420

Is hereby granted permission to perform the following work:

- ☒ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

ELECTRICAL ALTERATIONS, INTERIOR ALTERATION(S) REMOVE EXISTING SLOT - BOARD AND PEG BOARDS FROM WALLS, SPACKLE AND PAINT, CHANGE CEILING TILES AND ELECTRICAL LIGHTS.

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

Estimated Cost of Work \$90,000

[Signature] 2-2-2007
Construction Official Date

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$1,380
Electrical	\$65
Plumbing	\$0
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$121
CO Fee	
Other	\$0
Total	\$1,566
Check No.	6341
Cash	\$0
Credit	\$0
Collected By	Inspection Account

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within three business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



STOP CONSTRUCTION ORDER

Permit Number

Date Issued

Violation Number V-07-00381

212 - also sent to:
J Pecora & Son
(Fire)
HiTech (Elect)

IDENTIFICATION

Work Site Location: 150 ALLAIRE AVE Brick Township, NJBlock: 1170 Lot: 10.03 Qualification Code: _____Owner in Fee: WKR INVESTMENTS% M DAVIS, CONTROLLEROwner Address: 313 REGINA AVE RAHWAY NJ 07065Agent/Contractor PRECISION BLDG & CONS LLCAddress 941 E MAIN STREET BRIDGEWATER NJTo: ☒ Owner☒ Other:☒ Agent/ContractorDATE OF INSPECTION: 2/1/2007 DATE OF THIS NOTICE: 2/2/2007

ACTION

You are hereby **ORDERED** to **STOP**

☒ Building ☒ Electrical ☐ Plumbing ☒ Fire Protection ☐ Mechanical ☐ Elevator ☒ All Construction
at the above Location as of 2/1/2007 until further notice from this enforcing agency.

This **ORDER** is entered pursuant to N.J.A.C. 5:23-2.31(d) for violation of Working without a permit NJAC 5:23.2.14(a)

which provides:

No building, electrical, fire permits issued. Also no fire sprinkler permit applied for

Permission to resume construction may be obtained from this enforcing agency after the following conditions are met:

Further, take **NOTICE** that failure to comply with this **ORDER** may result in the assessment of penalties of up to \$2,000.00
per day per violation, and a certificate of occupancy will not be issued until such penalty has been paid.

If necessary, the enforcing agency will concurrently seek the Order of a court of competent jurisdiction restraining further work at
the above location.

If you wish to contest this **ORDER**, you may request a hearing before the Construction Board of Appeals of
the County of Ocean within 15 days of receipt of this **ORDER**
as provided by N.J.A.C. 5:23 A-2.1. The Application of the Construction Board of Appeals may be used for this purpose.

Your application for appeal must be in writing, setting forth your name and address, the address of the building or site in
question, the permit number, the specific sections of the Regulations in question, and the extent and nature of the relief
sought by you. You may append any documents that you consider useful.

The fee for an appeal is \$100.00 and should be forwarded with your application to the Construction

Board of Appeals Office at: **CONSTRUCTION BOARD OF APPEALS**
2 Mott Place
Toms River, NJ 08753

If you have any questions concerning this matter, please call: (732) 262-1027

By Order of

SubCode OfficialDate: 2-2-07



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Construction Violation

Identification

Work Site Location: 150 ALLAIRE AVE Brick Township, NJ
Block: 1170
Lot: 10.03
Owner: WKR INVESTMENTS%M DAVIS, CONTROLLER
Owner Address: 313 REGINA AVE RAHWAY NJ 07065
Telephone:
Agent: PRECISION BLDG & CONS LLC
Agent Address: 941 E MAIN STREET BRIDGEWATER NJ
Telephone: (732) 302-9595

Infraction Details

Subcode:
Issuing Officer: Daniel Newman
Issue Date:
Infraction: Stop Construction Order
Statute: N.J.A.C. 5:23 Uniform Construction Code Regulations Working without a permit NJAC 5:23.2.14(a)
Infraction Summary: No building, electrical, fire permits issued. Also no fire sprinkler permit applied for
Certified Mail Number: 7004 1350 0000 4669 7114

Enforcement Details

Inspection Date: 2/1/2007
Notice Date: 2/2/2007
Compliance Date: 2/2/2007
Compliance Inspection Date:
Compliance Summary:

JAN. 26. 2007 1:54PM BRANCHBROOK#38

NO. 9382 P. 2

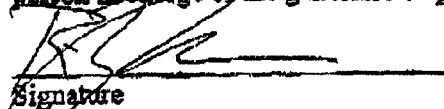
*Applicable to Ordinance 720-92**This form must be handed in with permit application or a permit will not be issued***TOWNSHIP OF BRICK****Debris Form**Work Site Address: 1686 RT. 88 W

Block: _____ Lot: _____

Contractor: PRECISION BUILDING CONSTRUCTION, LLCContractor's Address: 941 E. Main St., Ste 200, Bridgewater NJ 08807Type of Construction (minor, new home): Commercial interior - Pennamark RetailType of Debris (shingles, siding, wood, etc.): ceiling tiles, sheetrock, 2x4 studsParty responsible for removal: MARPAL DISPOSALDumpster size: 30 yd.Destination of debris: Dumpster on site Marpal Disposal, Tinton Falls

Any recyclable material must be delivered to an approved recycling center and receipts provided to the Building Department along with tipping receipts for non-recyclable.

Generator's Certification: Under penalty of criminal and civil prosecution for the making or submission of false statements, representations or omissions, I declare, on behalf of the generator that the contents of this document are fully and accurately described above and have been disposed of in accordance with all applicable State and Federal laws and regulations, and that I have been authorized in writing, to make such declaration by the person in charge of the generator's operation.


Signature1/26/07
DateRICK ZAACK
Print Name

1170/10.03

K & E FIRE PROTECTION CORP.



MAIN OFFICE
14 PLAZA NINE
MANALAPAN, NJ 07726
(732) 303-1717

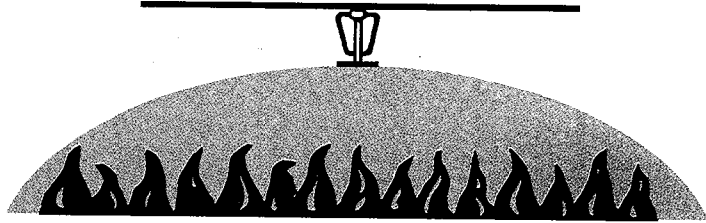
COMPUTER DIVISION
K & E GAMATRON CORP.
(732) 303-1647

**HYDRAULIC CALCULATION
DIVISION**
K & E HY TECK CORP.
(732) 303-1647

FACSIMILE:
(732) 780-6310

WEBSITE:
www.kefire.com

sales@kefire.com
info@kefire.com
engineering@kefire.com



February 21, 2007

Precision Building & Construction, LLC
941 East Main Street
Bridgewater, NJ 08801

Re: Branch Brook Pools
1686 Rte 88 West
Brick, NJ 08723

Dear Sirs:

This is to confirm that I personally appeared today at the above address and conducted a water flow test. The test was witnessed by Joseph Juanillo, Project Manager of the Brick Township MUA and were as follows:

The Static was 70 on hydrant #1.
The Flow was 1000 on hydrant #2.
The Residential was 61 back on hydrant #1
The water was flowed out of a 2 1/2" outlet.

(See attached water supply graph.)

If you should have any questions, please feel free to contact me direct.

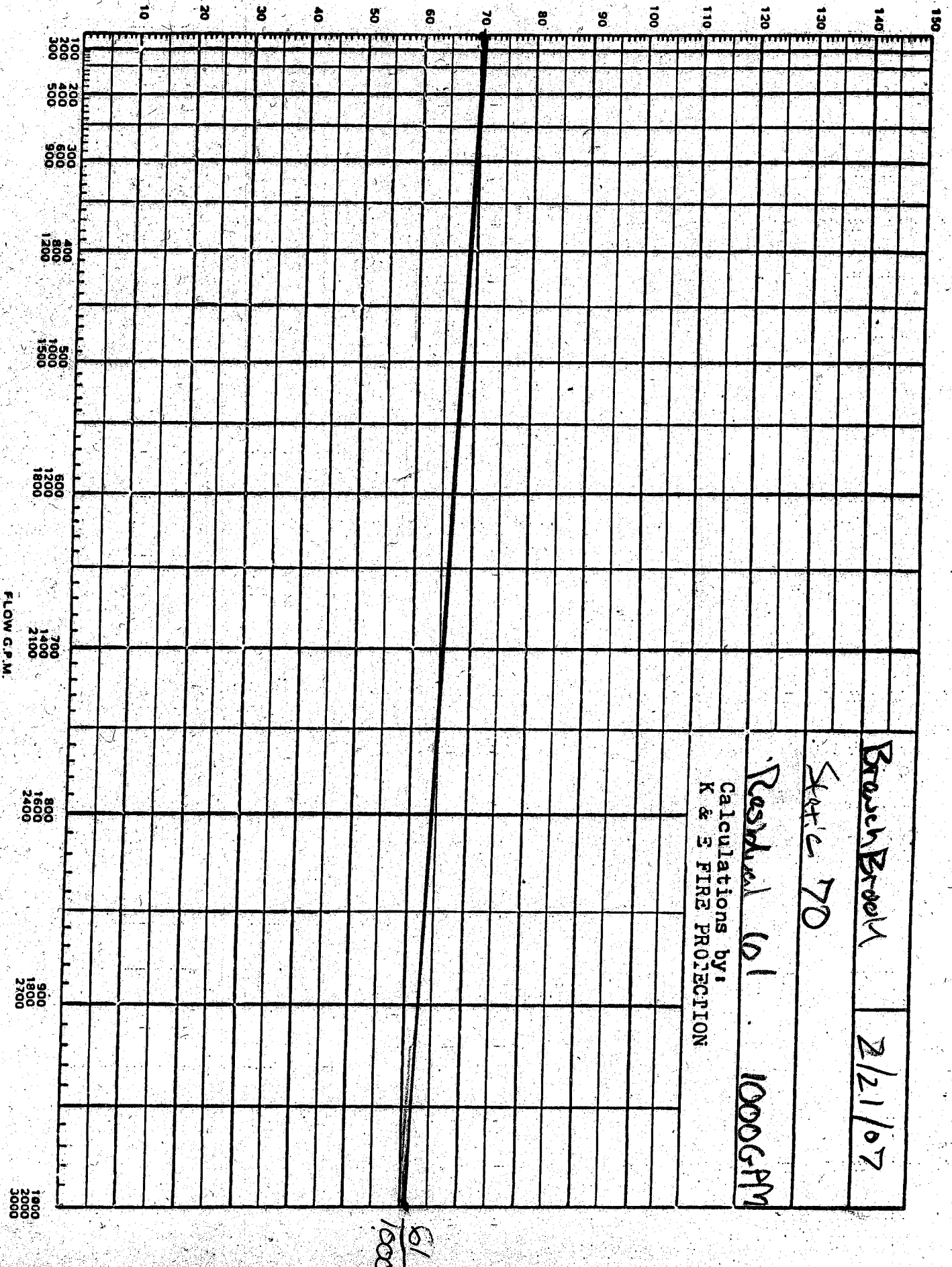
Very truly yours,

A handwritten signature in black ink, appearing to read "Jason Lasky".

Jason Lasky
Draftsman/Designer
K&E Fire Protection Corp

WATER SUPPLY GRAPH

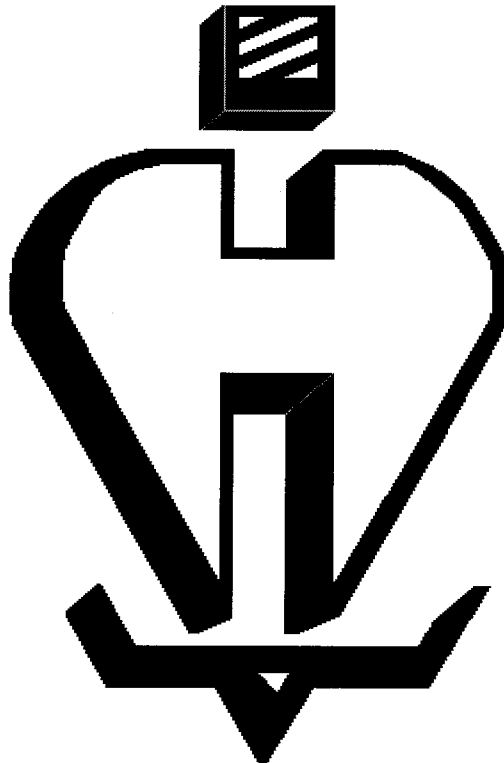
PRESSURE - P.S.I.



Job Name : BRANCHBROOK
Building :
Location :
System :
Contract :
Data File : branchbr.WX1

K&E FIRE PROTECTION
14 PLAZA NINE
MANALAPAN, NJ 07726

... Fire Protection by Computer Design



Water Supply Curve (C)

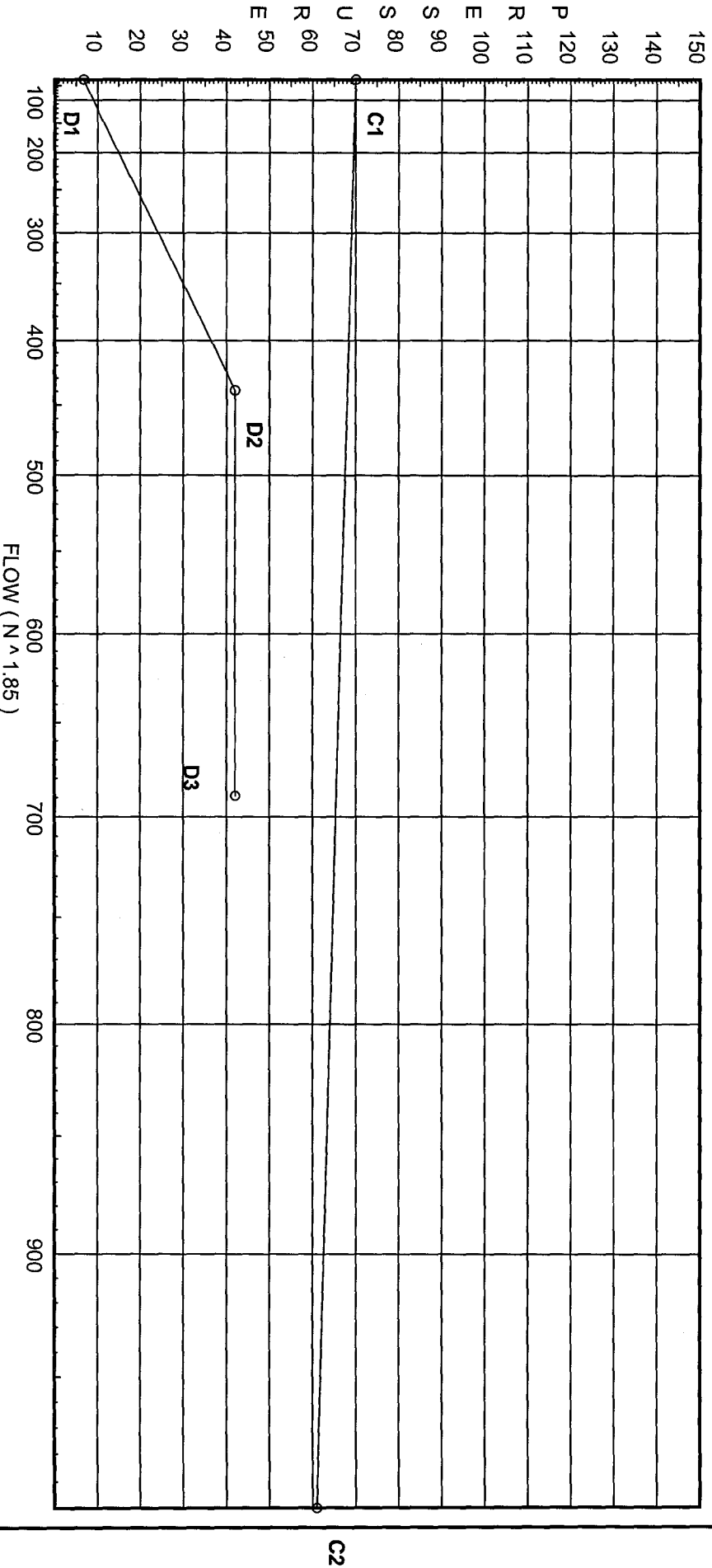
K&E FIRE PROTECTION
BRANCHBROOK

City Water Supply:

C1 - Static Pressure : 70
C2 - Residual Pressure: 61
C2 - Residual Flow : 1000

Demand:

D1 - Elevation : 6.713
D2 - System Flow : 439.132
D2 - System Pressure : 42.036
Hose (Adj City) : 250
Hose (Demand) : 689.132
D3 - System Demand : 23.444
Safety Margin : 23.444



Fittings Used Summary

K&E FIRE PROTECTION
BRANCHBROOK

Fitting Legend																									
Abbrev.	Name	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12	14	16	18	20	24				
E	90° Standard Elbow	2	2	2	3	4	5	6	7	8	10	12	14	18	22	27	35	40	45	50	61				
T	90° Flow thru Tee	3	4	5	6	8	10	12	15	17	20	25	30	35	50	60	71	81	91	101	121				

Units Summary

Diameter Units
Length Units
Flow Units
Pressure Units

Inches
Feet
US Gallons per Minute
Pounds per Square Inch

Pressure / Flow Summary - STANDARD

K&E FIRE PROTECTION
BRANDBROOKPage 3
Date 022107

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
D001	15.5	5.6	21.03	na	25.68	0.2	120	7.0
D002	15.5	5.6	20.96	na	25.64	0.2	120	7.0
D003	15.5	5.6	21.0	na	25.66	0.2	120	7.0
S004	15.5	5.6	18.98	na	24.4	0.2	120	7.0
S005	15.5	5.6	18.64	na	24.18	0.2	120	7.0
S006	15.5	5.6	18.5	na	24.09	0.2	120	7.0
S007	15.5	5.6	18.51	na	24.09	0.2	120	7.0
S008	15.5	5.6	18.73	na	24.24	0.2	120	7.0
S009	15.5	5.6	18.87	na	24.32	0.2	120	7.0
S010	15.5	5.6	18.52	na	24.1	0.2	120	7.0
D011	15.5	5.6	18.39	na	24.02	0.2	120	7.0
S012	15.5	5.6	18.4	na	24.02	0.2	120	7.0
S013	15.5	5.6	18.62	na	24.16	0.2	120	7.0
S014	15.5	5.6	18.84	na	24.31	0.2	120	7.0
S015	15.5	5.6	18.5	na	24.09	0.2	120	7.0
S016	15.5	5.6	18.37	na	24.0	0.2	120	7.0
S017	15.5	5.6	18.37	na	24.0	0.2	120	7.0
S018	15.5	5.6	18.59	na	24.15	0.2	120	7.0
24	15.0		24.28	na				
48	15.0		24.32	na				
49	15.0		19.94	na				
50	15.0		19.71	na				
51	15.0		19.7	na				
52	15.0		19.84	na				
53	15.0		20.2	na				
42	15.0		24.47	na				
43	15.0		20.06	na				
44	15.0		19.83	na				
45	15.0		19.82	na				
46	15.0		19.96	na				
47	15.0		20.32	na				
38	15.0		24.82	na				
39	15.0		22.46	na				
40	15.0		22.41	na				
41	15.0		22.48	na				
37	15.0		25.31	na				
36	15.0		25.82	na				
35	15.0		26.34	na				
34	15.0		26.86	na				
33	15.0		27.39	na				
32	15.0		27.92	na				
31	15.0		28.46	na				
30	15.0		29.01	na				
29	15.0		29.59	na				
28	15.0		30.19	na				
27	15.0		30.84	na				
26	15.0		31.54	na				
25	15.0		32.32	na				
1	15.0		19.68	na				
22	15.0		19.68	na				
23	15.0		19.91	na				
2	15.0		19.82	na				
3	15.0		20.18	na				
4	15.0		24.15	na				
5	15.0		24.17	na				
6	15.0		24.31	na				
7	15.0		24.7	na				
8	15.0		25.25	na				
9	15.0		25.8	na				
10	15.0		26.33	na				
11	15.0		26.86	na				
12	15.0		27.38	na				

Flow Summary - Standard

K&E FIRE PROTECTION
BRANCHBROOK

Page 4
Date 022107

Node No.	Elevation	K-Fact	Pt Actual	Pn	Flow Actual	Density	Area	Press Req.
13	15.0		27.9	na				
14	15.0		28.41	na				
15	15.0		28.91	na				
16	15.0		29.39	na				
17	15.0		29.84	na				
18	15.0		30.26	na				
19	15.0		30.63	na				
20	15.0		31.03	na				
21	15.0		34.12	na				
TEST	0.0		42.04	na	250.0			

The maximum velocity is 10.43 and it occurs in the pipe between nodes 26 and 25

Final Calculations - Hazen-Williams

K&E FIRE PROTECTION
BRANCHBROOK

Page 5
Date 022107

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
D001 to 41	25.68 25.68	1.049 120 0.2065	1T 5.0 0.0 0.0	1.000 5.000 6.000	21.026 0.217 1.239			K Factor = 5.60 Vel = 9.53	
	0.0 25.68					22.482		K Factor = 5.42	
D002 to 40	25.64 25.64	1.049 120 0.2060	1T 5.0 0.0 0.0	1.000 5.000 6.000	20.958 0.217 1.236			K Factor = 5.60 Vel = 9.52	
	0.0 25.64					22.411		K Factor = 5.42	
D003 to 39	25.66 25.66	1.049 120 0.2063	1T 5.0 0.0 0.0	1.000 5.000 6.000	21.001 0.217 1.238			K Factor = 5.60 Vel = 9.53	
	0.0 25.66					22.456		K Factor = 5.41	
S004 to 47	24.40 24.4	1.049 120 0.1880	1T 5.0 0.0 0.0	1.000 5.000 6.000	18.979 0.217 1.128			K Factor = 5.60 Vel = 9.06	
	0.0 24.40					20.324		K Factor = 5.41	
S005 to 46	24.18 24.18	1.049 120 0.1848	1T 5.0 0.0 0.0	1.000 5.000 6.000	18.636 0.217 1.109			K Factor = 5.60 Vel = 8.98	
	0.0 24.18					19.962		K Factor = 5.41	
S006 to 45	24.09 24.09	1.049 120 0.1835	1T 5.0 0.0 0.0	1.000 5.000 6.000	18.504 0.217 1.101			K Factor = 5.60 Vel = 8.94	
	0.0 24.09					19.822		K Factor = 5.41	
S007 to 44	24.09 24.09	1.049 120 0.1837	1T 5.0 0.0 0.0	1.000 5.000 6.000	18.508 0.217 1.102			K Factor = 5.60 Vel = 8.94	
	0.0 24.09					19.827		K Factor = 5.41	
S008 to 43	24.24 24.24	1.049 120 0.1857	1T 5.0 0.0 0.0	1.000 5.000 6.000	18.730 0.217 1.114			K Factor = 5.60 Vel = 9.00	
	0.0 24.24					20.061		K Factor = 5.41	
S009 to 53	24.32 24.32	1.049 120 0.1868	1T 5.0 0.0 0.0	1.000 5.000 6.000	18.866 0.217 1.121			K Factor = 5.60 Vel = 9.03	
	0.0 24.32					20.204		K Factor = 5.41	
S010 to 52	24.10 24.1	1.049 120 0.1837	1T 5.0 0.0 0.0	1.000 5.000 6.000	18.524 0.217 1.102			K Factor = 5.60 Vel = 8.95	

Final Calculations - Standard

K&E FIRE PROTECTION
BRANCHBROOK

Page 6
Date 022107

Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	0.0 24.10					19.843			K Factor = 5.41	
D011 to 51	24.02	1.049 120	1T	5.0 0.0	1.000 5.000	18.392 0.217			K Factor = 5.60	
	24.02	0.1825		0.0	6.000	1.095			Vel = 8.92	
	0.0 24.02					19.704			K Factor = 5.41	
S012 to 50	24.02	1.049 120	1T	5.0 0.0	1.000 5.000	18.396 0.217			K Factor = 5.60	
	24.02	0.1825		0.0	6.000	1.095			Vel = 8.92	
	0.0 24.02					19.708			K Factor = 5.41	
S013 to 49	24.16	1.049 120	1T	5.0 0.0	1.000 5.000	18.616 0.217			K Factor = 5.60	
	24.16	0.1845		0.0	6.000	1.107			Vel = 8.97	
	0.0 24.16					19.940			K Factor = 5.41	
S014 to 3	24.31	1.049 120	1T	5.0 0.0	1.000 5.000	18.843 0.217			K Factor = 5.60	
	24.31	0.1865		0.0	6.000	1.119			Vel = 9.02	
	0.0 24.31					20.179			K Factor = 5.41	
S015 to 2	24.09	1.049 120	1T	5.0 0.0	1.000 5.000	18.500 0.217			K Factor = 5.60	
	24.09	0.1835		0.0	6.000	1.101			Vel = 8.94	
	0.0 24.09					19.818			K Factor = 5.41	
S016 to 1	24.00	1.049 120	1T	5.0 0.0	1.000 5.000	18.367 0.217			K Factor = 5.60	
	24.0	0.1823		0.0	6.000	1.094			Vel = 8.91	
	0.0 24.00					19.678			K Factor = 5.41	
S017 to 22	24.00	1.049 120	1T	5.0 0.0	1.000 5.000	18.372 0.217			K Factor = 5.60	
	24.0	0.1822		0.0	6.000	1.093			Vel = 8.91	
	0.0 24.00					19.682			K Factor = 5.41	
S018 to 23	24.15	1.049 120	1T	5.0 0.0	1.000 5.000	18.590 0.217			K Factor = 5.60	
	24.15	0.1843		0.0	6.000	1.106			Vel = 8.97	
	0.0 24.15					19.913			K Factor = 5.41	
*P-6										
24 to 4	-21.00	3.26 120	2E	18.815 0.0	205.410 18.815	24.276 0.0				
	-21.0	-0.0006		0.0	224.225	-0.127			Vel = 0.81	
	0.0									

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	-21.00				24.149				K Factor = -4.27	
*P-9										
48	-51.46	1.682	1T	9.9	48.500	24.321				
to		120		0.0	9.900	0.0				
49	-51.46	-0.0750		0.0	58.400	-4.381			Vel = 7.43	
49	24.16	1.682		0.0	10.000	19.940				
to		120		0.0	0.0	0.0				
50	-27.3	-0.0232		0.0	10.000	-0.232			Vel = 3.94	
50	24.02	1.682		0.0	10.000	19.708				
to		120		0.0	0.0	0.0				
51	-3.28	-0.0004		0.0	10.000	-0.004			Vel = 0.47	
51	24.02	1.682		0.0	10.000	19.704				
to		120		0.0	0.0	0.0				
52	20.74	0.0139		0.0	10.000	0.139			Vel = 2.99	
52	24.10	1.682		0.0	6.200	19.843				
to		120		0.0	0.0	0.0				
53	44.84	0.0582		0.0	6.200	0.361			Vel = 6.47	
53	24.32	1.682	1T	9.9	20.700	20.204				
to		120		0.0	9.900	0.0				
5	69.16	0.1296		0.0	30.600	3.966			Vel = 9.99	
	0.0									
	69.16				24.170				K Factor = 14.07	
*P-12										
42	-51.66	1.682	1T	9.9	48.500	24.473				
to		120		0.0	9.900	0.0				
43	-51.66	-0.0755		0.0	58.400	-4.412			Vel = 7.46	
43	24.24	1.682		0.0	10.000	20.061				
to		120		0.0	0.0	0.0				
44	-27.42	-0.0234		0.0	10.000	-0.234			Vel = 3.96	
44	24.09	1.682		0.0	10.000	19.827				
to		120		0.0	0.0	0.0				
45	-3.33	-0.0005		0.0	10.000	-0.005			Vel = 0.48	
45	24.09	1.682		0.0	10.000	19.822				
to		120		0.0	0.0	0.0				
46	20.76	0.0140		0.0	10.000	0.140			Vel = 3.00	
46	24.17	1.682		0.0	6.200	19.962				
to		120		0.0	0.0	0.0				
47	44.93	0.0584		0.0	6.200	0.362			Vel = 6.49	
47	24.40	1.682	1T	9.9	20.700	20.324				
to		120		0.0	9.900	0.0				
6	69.33	0.1302		0.0	30.600	3.983			Vel = 10.01	
	0.0									
	69.33				24.307				K Factor = 14.06	
*P-15										
38	-36.87	1.682	1T	9.9	48.500	24.820				
to		120		0.0	9.900	0.0				
39	-36.87	-0.0405		0.0	58.400	-2.364			Vel = 5.32	

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv. Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
39 to 40	25.66 -11.21	1.682 120 -0.0045		0.0 0.0 10.000	22.456 0.0 -0.045			Vel = 1.62	
40 to 41	25.64 14.43	1.682 120 0.0071		0.0 0.0 10.000	22.411 0.0 0.071			Vel = 2.08	
41 to 7	25.68 40.11	1.682 120 0.0473	1T	9.9 0.0 46.810	36.910 9.900 2.214	22.482 0.0		Vel = 5.79	
	0.0 40.11					24.696		K Factor = 8.07	
*P-18									
37 to 8	-3.34 -3.34	1.682 120 -0.0005	2T	19.799 0.0 125.209	105.410 19.799 -0.060	25.314 0.0		Vel = 0.48	
	0.0 -3.34					25.254		K Factor = -0.66	
*P-21									
36 to 9	-2.10 -2.1	1.682 120 -0.0002	2T	19.799 0.0 125.209	105.410 19.799 -0.026	25.822 0.0		Vel = 0.30	
	0.0 -2.10					25.796		K Factor = -0.41	
*P-24									
35 to 10	-1.24 -1.24	1.682 120 -0.0001	2T	19.799 0.0 125.209	105.410 19.799 -0.009	26.339 0.0		Vel = 0.18	
	0.0 -1.24					26.330		K Factor = -0.24	
*P-27									
34 to 11	-0.85 -0.85	1.682 120 0.0	2T	19.799 0.0 125.209	105.410 19.799 -0.005	26.862 0.0		Vel = 0.12	
	0.0 -0.85					26.857		K Factor = -0.16	
*P-30									
33 to 12	-1.09 -1.09	1.682 120 -0.0001	2T	19.799 0.0 125.209	105.410 19.799 -0.007	27.388 0.0		Vel = 0.16	
	0.0 -1.09					27.381		K Factor = -0.21	
*P-33									
32 to 13	-1.85 -1.85	1.682 120 -0.0002	2T	19.799 0.0 125.209	105.410 19.799 -0.020	27.920 0.0		Vel = 0.27	
	0.0								

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
	-1.85					27.900			K Factor = -0.35	
*P-36										
31 to 14	-2.99 -2.99	1.682 120 -0.0004	2T	19.799 0.0 0.0	105.410 19.799 125.209	28.460 0.0 -0.049			Vel = 0.43	
	0.0 -2.99					28.411			K Factor = -0.56	
*P-39										
30 to 15	-4.51 -4.51	1.682 120 -0.0008	2T	19.799 0.0 0.0	105.410 19.799 125.209	29.013 0.0 -0.104			Vel = 0.65	
	0.0 -4.51					28.909			K Factor = -0.84	
*P-42										
29 to 16	-6.41 -6.41	1.682 120 -0.0016	2T	19.799 0.0 0.0	105.410 19.799 125.209	29.587 0.0 -0.199			Vel = 0.93	
	0.0 -6.41					29.388			K Factor = -1.18	
*P-45										
28 to 17	-8.70 -8.7	1.682 120 -0.0028	2T	19.799 0.0 0.0	105.410 19.799 125.209	30.190 0.0 -0.350			Vel = 1.26	
	0.0 -8.70					29.840			K Factor = -1.59	
*P-48										
27 to 18	-11.42 -11.42	1.682 120 -0.0046	2T	19.799 0.0 0.0	105.410 19.799 125.209	30.836 0.0 -0.580			Vel = 1.65	
	0.0 -11.42					30.256			K Factor = -2.08	
*P-51										
26 to 19	-14.56 -14.56	1.682 120 -0.0073	2T	19.799 0.0 0.0	105.410 19.799 125.209	31.538 0.0 -0.910			Vel = 2.10	
	0.0 -14.56					30.628			K Factor = -2.63	
*P-54										
25 to 20	-16.67 -16.67	1.682 120 -0.0093	2E 2T	9.9 19.799 0.0	108.410 29.699 138.109	32.315 0.0 -1.288			Vel = 2.41	
	0.0 -16.67					31.027			K Factor = -2.99	
*P-57										
1 to 22	3.20 3.2	1.682 120 0.0004		0.0 0.0 0.0	10.000 0.0 10.000	19.678 0.0 0.004			Vel = 0.46	

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
22 to 23	24.01 27.21	1.682 120 0.0231		0.0 0.0 0.0	10.000 0.0 10.000	19.682 0.0 0.231				
23 to 24	24.14 51.35	1.682 120 0.0747	1T	9.9 0.0 0.0	48.500 9.900 58.400	19.913 0.0 4.363		Vel =	3.93	
24 to 48	21.00 72.35	3.26 120 0.0056		0.0 0.0 0.0	8.000 0.0 8.000	24.276 0.0 0.045		Vel =	2.78	
48 to 42	51.46 123.81	3.26 120 0.0152		0.0 0.0 0.0	10.000 0.0 10.000	24.321 0.0 0.152		Vel =	4.76	
42 to 38	51.66 175.47	3.26 120 0.0289		0.0 0.0 0.0	12.000 0.0 12.000	24.473 0.0 0.347		Vel =	6.74	
38 to 37	36.87 212.34	3.26 120 0.0412		0.0 0.0 0.0	12.000 0.0 12.000	24.820 0.0 0.494		Vel =	8.16	
37 to 36	3.34 215.68	3.26 120 0.0423		0.0 0.0 0.0	12.000 0.0 12.000	25.314 0.0 0.508		Vel =	8.29	
36 to 35	2.11 217.79	3.26 120 0.0431		0.0 0.0 0.0	12.000 0.0 12.000	25.822 0.0 0.517		Vel =	8.37	
35 to 34	1.24 219.03	3.26 120 0.0436		0.0 0.0 0.0	12.000 0.0 12.000	26.339 0.0 0.523		Vel =	8.42	
34 to 33	0.85 219.88	3.26 120 0.0438		0.0 0.0 0.0	12.000 0.0 12.000	26.862 0.0 0.526		Vel =	8.45	
33 to 32	1.09 220.97	3.26 120 0.0443		0.0 0.0 0.0	12.000 0.0 12.000	27.388 0.0 0.532		Vel =	8.49	
32 to 31	1.84 222.81	3.26 120 0.0450		0.0 0.0 0.0	12.000 0.0 12.000	27.920 0.0 0.540		Vel =	8.56	
31 to 30	2.99 225.8	3.26 120 0.0461		0.0 0.0 0.0	12.000 0.0 12.000	28.460 0.0 0.553		Vel =	8.68	
30 to 29	4.51 230.31	3.26 120 0.0478		0.0 0.0 0.0	12.000 0.0 12.000	29.013 0.0 0.574		Vel =	8.85	
29 to 28	6.41 236.72	3.26 120 0.0502		0.0 0.0 0.0	12.000 0.0 12.000	29.587 0.0 0.603		Vel =	9.10	
28 to 27	8.70 245.42	3.26 120 0.0538		0.0 0.0 0.0	12.000 0.0 12.000	30.190 0.0 0.646		Vel =	9.43	

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
27 to 26	11.42 256.84	3.26 120 0.0585		0.0 0.0 0.0	12.000 0.0 12.000	30.836 0.0 0.702				Vel = 9.87
26 to 25	14.56 271.4	3.26 120 0.0648		0.0 0.0 0.0	12.000 0.0 12.000	31.538 0.0 0.777				Vel = 10.43
25 to 21	16.67 288.07	4.26 120 0.0197	1E 2T	13.167 52.668 0.0	25.910 65.835 91.745	32.315 0.0 1.803				Vel = 6.48
	0.0 288.07					34.118				K Factor = 49.32
*P-60										
1 to 2	20.80 20.8	1.682 120 0.0140		0.0 0.0 0.0	10.000 0.0 10.000	19.678 0.0 0.140				Vel = 3.00
2 to 3	24.08 44.88	1.682 120 0.0582		0.0 0.0 0.0	6.200 0.0 6.200	19.818 0.0 0.361				Vel = 6.48
3 to 4	24.31 69.19	1.682 120 0.1297	1T	9.9 0.0 0.0	20.700 9.900 30.600	20.179 0.0 3.970				Vel = 9.99
4 to 5	-21.00 48.19	3.26 120 0.0026		0.0 0.0 0.0	8.000 0.0 8.000	24.149 0.0 0.021				Vel = 1.85
5 to 6	69.17 117.36	3.26 120 0.0137		0.0 0.0 0.0	10.000 0.0 10.000	24.170 0.0 0.137				Vel = 4.51
6 to 7	69.32 186.68	3.26 120 0.0324		0.0 0.0 0.0	12.000 0.0 12.000	24.307 0.0 0.389				Vel = 7.18
7 to 8	40.11 226.79	3.26 120 0.0465		0.0 0.0 0.0	12.000 0.0 12.000	24.696 0.0 0.558				Vel = 8.72
8 to 9	-3.34 223.45	3.26 120 0.0452		0.0 0.0 0.0	12.000 0.0 12.000	25.254 0.0 0.542				Vel = 8.59
9 to 10	-2.10 221.35	3.26 120 0.0445		0.0 0.0 0.0	12.000 0.0 12.000	25.796 0.0 0.534				Vel = 8.51
10 to 11	-1.24 220.11	3.26 120 0.0439		0.0 0.0 0.0	12.000 0.0 12.000	26.330 0.0 0.527				Vel = 8.46
11 to 12	-0.85 219.26	3.26 120 0.0437		0.0 0.0 0.0	12.000 0.0 12.000	26.857 0.0 0.524				Vel = 8.43
12 to 13	-1.09 218.17	3.26 120 0.0433		0.0 0.0 0.0	12.000 0.0 12.000	27.381 0.0 0.519				Vel = 8.39

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Hyd. Ref. Point	Qa Qt	Dia. "C" Pf/Ft	Fitting or Eqv.	Ln.	Pipe Ftng's Total	Pt Pe Pf	Pt Pv Pn	*****	Notes	*****
13 to 14	-1.85 216.32	3.26 120 0.0426		0.0 0.0 0.0	12.000 0.0 12.000	27.900 0.0 0.511			Vel = 8.31	
14 to 15	-2.99 213.33	3.26 120 0.0415		0.0 0.0 0.0	12.000 0.0 12.000	28.411 0.0 0.498			Vel = 8.20	
15 to 16	-4.51 208.82	3.26 120 0.0399		0.0 0.0 0.0	12.000 0.0 12.000	28.909 0.0 0.479			Vel = 8.03	
16 to 17	-6.40 202.42	3.26 120 0.0377		0.0 0.0 0.0	12.000 0.0 12.000	29.388 0.0 0.452			Vel = 7.78	
17 to 18	-8.71 193.71	3.26 120 0.0347		0.0 0.0 0.0	12.000 0.0 12.000	29.840 0.0 0.416			Vel = 7.45	
18 to 19	-11.41 182.3	3.26 120 0.0310		0.0 0.0 0.0	12.000 0.0 12.000	30.256 0.0 0.372			Vel = 7.01	
19 to 20	-14.57 167.73	3.26 120 0.0266		0.0 0.0 0.0	15.000 0.0 15.000	30.628 0.0 0.399			Vel = 6.45	
20 to 21	-16.67 151.06	3.26 120 0.0219	3E	28.223 0.0 0.0	112.830 28.223 141.053	31.027 0.0 3.091			Vel = 5.81	
21 to TEST	288.07 439.13	6.357 120 0.0061	1Eq	6.287 0.0 0.0	64.000 5.000 69.000	34.118 7.496 0.422			* Fixed loss = 1.000 Vel = 4.44	
	250.00 689.13					42.036			Qa = 250.00 K Factor = 106.29	

137 2006 110 68 431

Constituent Contact Report

☐ Zoning Application deemed complete
Initialed: _____ Date: _____

☐ Zoning Application approved
Initialed: _____ Date: _____

☐ Zoning permit updates:
