

BLOCK 672

LOT 12

QUALIFICATION CODE

ADDRESS (SITE)

PERMIT NO.

348697

RECEIVED

OCT 28 1997



CONSTRUCTION PERMIT APPLICATION T.G.I.F.

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

20K

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ 3760		
2. Electrical			
3. Plumbing	670	120	
4. Fire Protection	1160		93
5. Elevator Devices			
6. Subtotal	\$ 5190		
7. Less 20% for State Plan Review			
8. Subtotal	\$		
9. DCA Training Fee	139		
10. Subtotal			
11. Cert. of Occupancy			
12. Other 2PA + PP	\$30		
13. TOTAL	\$ 5359		93

VI. BUILDING/SITE CHARACTERISTICS

- Number of Stories
- Height of Structure
- Area - Largest Floor
- New Building Area
- Volume of New Structure
- Construction Classification
- Total Land Area Disturbed
- Flood Hazard Zone
- Base Flood Elevation
- Wetlands
- Max. Live Load
- Max. Occupancy Load

(office use only)

I. IDENTIFICATION

- Proposed Work Site at: 705 Hwy 70
- Name of Owner in Fee: Bricktown Pub Tel: (717) 624 8227
Address: 2 Woodland Dr Dallas PA 18612
- Ownership in Fee: Public Private
- Principal Contractor: D.K. Arch. & Eng. Tel: (954) 941-3329
Address: 1701 E ATLANTIC BLVD Pompano Beach FLA
- License No. OR, if new home, Builder Reg. No. Exp. Date
- Federal Employee No. FAX: ()
- Architect or Engineer: SAME Tel: ()
- Address
- Responsible Person in Charge of Work
- Tel: () FAX: ()

II. PROPOSED WORK

- ☐ Minor Work
- ☐ New Building
- ☐ Addition
- ☒ Alteration
- ☒ Fire Protection
- ☒ Plumbing
- ☐ Electrical
- ☐ Elevator Devices
- ☐ Asbestos Abat. Subch. 8
- ☐ Lead Hazard Abatement
- ☐ Demolition

Est. Cost

150000
5000
16000

Plans Rec'd by

Date Rec'd

Rejection Date

Approval Date

Re-viewer

Resubmission Dates

Approval Rejection

Re-viewer

TOTAL COSTS

174000

OPTIONAL (for office use only)

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

- ☐ Elevators/Escalators/Lifts/Dumbwaiters/Moving Walks
- ☐ High Pressure Boilers
- ☐ Pressure Vessels
- ☐ Refrigeration Systems
- ☐ Cross-Connections/Backflow Preventers
- ☐ Hazardous Uses/Places of Assembly
- ☐ Sprinklers
- ☐ Smoke Control Systems in Open Wells
- ☐ Underground Storage Tanks

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

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

No. of dwelling units:

- Before Construction
After Construction
Net Gain or Loss

B. NON-RESIDENTIAL

- State Specific Use: RESTAURANT
- Use Group: A-3
- Change in Use Group, Indicate Former:

INTERIOR APT. EXISTING
update OK suppression FOOTPRINT

2/4/98

FOOTPRINT

ENC 10/29/97

10/29/97

AHBT FINAL APPROVAL

LDS BR 10109780

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:

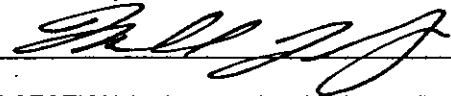
C.3. ☐ Electrical C.4. ☐ Plumbing

- 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.

X Signature



Date 10-28-97

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 _____

Address _____

Telephone (_____) _____

Signature _____

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

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	
☐ Zoning Officer									IMPORTANT A.H.B.T. EXEMPT
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Department of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Department of Environmental Protection									
☐ Utility Dig No.									
☐									

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

Name of Code & Edition

Name of Code & Edition

Building _____
Electrical _____
Plumbing _____
Fire Protection _____
Mechanical _____

Energy _____
Barrier Free _____
Flood Hazard _____
As Built Elevation Cert. _____
Other _____

Other _____

X. CERTIFICATES ISSUED (office use only)

- ☒ Temporary Certificate of Occupancy
☐ Temporary Certificate of Compliance
☐ Continued Certificate of Occupancy
☐ Certificate of Compliance
☐ Certificate of Occupancy
☐ Certificate of Approval

DATE ISSUED

DATE EXPIRED

DATE REISSUED

DATE EXPIRED

No. 3480

2/27/98

4/17/98

Steve

No. _____

Sing

No. _____

No. _____

No. _____

No. _____

Clearance Certificate



CERTIFICATE

Date Issued 4-17-98
Control #
Permit # 3486-97

IDENTIFICATION

Block 672 Lot 12
Work Site Location 705 Highway 70
Owner in Fee Bridgetown Drive Inc.
Address 2 Woodland Dr.
Dallas, Pa. 19612
Tele. ()
Contractor W.W. Architects
Address 1701 E. Atlantic Blvd
Dominion Beach, Fl 33060
Tele. ()
Lic. No. or Bldrs. Reg. No.
Federal Emp. No.
or Social Security No.

Home Warranty No.
Use Group
Maximum Live Load
Description of Work/Use:

Alterations to existing bldg.

TCIF RESTURANT
Type of Warranty Plan: [] State [] Private
Construction Classification
Maximum Occupancy Load

CERTIFICATE OF OCCUPANCY/APPROVAL

☐ CERTIFICATE OF OCCUPANCY

This serves notice that said building, structure, or equipment has been constructed or installed in accordance with the New Jersey Uniform Construction Code, and is approved for use and/or occupancy.

☐ CERTIFICATE OF APPROVAL

☐ CERTIFICATE OF CONTINUED OCCUPANCY

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☒ TEMPORARY CERTIFICATE OF OCCUPANCY

If this is a Temporary Certificate of Occupancy the following conditions must be met no later than July 17, 1998 or the owner will be subject to a fine or order to vacate: Pending compliance with Brick township planning board

Fee \$
Paid [] Check No.
Collected by:

CONSTRUCTION OFFICIAL

[Signature]



CERTIFICATE

Date Issued 2-27-98
Control #
Permit # 3486-97

IDENTIFICATION

Block 672 Lot 12
Work Site Location 705 Highway 70
Owner in Fee Bricktown Dubs Inc.
Address 2 Woodland Dr.
Dallas, Pa 18612
Tele. ()
Contractor D.K Architects
Address 1701 E. Atlantic Blvd.
Pompano Beach, FL 33060
Tele. ()
Lic. No. or Bldg. Reg. No.
Federal Emp. No.
or Social Security No.

Home Warranty No. N/A
Use Group A-3
Maximum Live Load
Description of Work/Use:

Alterations to existing building
"TGIF RESTAURANT"

Type of Warranty Plan: [] State [] Private
Construction Classification
Maximum Occupancy Load

CERTIFICATE OF OCCUPANCY/APPROVAL

☐ CERTIFICATE OF OCCUPANCY

This serves notice that said building, structure, or equipment has been constructed or installed in accordance with the New Jersey Uniform Construction Code, and is approved for use and/or occupancy.

☐ CERTIFICATE OF APPROVAL

☐ CERTIFICATE OF CONTINUED OCCUPANCY
This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

XXXXX ☐ TEMPORARY CERTIFICATE OF OCCUPANCY

If this is a Temporary Certificate of Occupancy the following conditions must be met no later than April 17, 1998 or the owner will be subject to a fine or order to vacate:
Pending compliance with Electrical and Engineering.

3/5/98

Fee \$
Paid [] Check No.
Collected by:

CONSTRUCTION OFFICIAL



CERTIFICATE

Date Issued 7-17-98
Control #
Permit # 97-3486

IDENTIFICATION

Block 672 Lot 12
Work Site Location 705 Highway 70
Owner in Fee Bricktown Pubs Inc.
Address 2 Woodland Dr.
Dallas, Pa
Tele. () 18612
Contractor D.K. Architects
1701 E. Atlantic Blvd.
Address Pompano Beach, Fl. 33060
Tele. ()
Lic. No. or Bldrs. Reg. No.
Federal Emp. No.
or Social Security No.

Home Warranty No. N/A
Use Group A-3
Maximum Live Load
Description of Work/Use:

Alterations to existing building
"TGIF RESTAURANT"

Type of Warranty Plan: [] State [] Private
Construction Classification
Maximum Occupancy Load

CERTIFICATE OF OCCUPANCY/APPROVAL

☐ CERTIFICATE OF OCCUPANCY

This serves notice that said building, structure, or equipment has been constructed or installed in accordance with the New Jersey Uniform Construction Code, and is approved for use and/or occupancy.

☐ CERTIFICATE OF APPROVAL

☐ CERTIFICATE OF CONTINUED OCCUPANCY

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

XXXX ☒ TEMPORARY CERTIFICATE OF OCCUPANCY

If this is a Temporary Certificate of Occupancy the following conditions must be met no later than September 17, 1998 or the owner will be subject to a fine or order to vacate:
Pending compliance with Engineering.

Fee \$
Paid [] Check No.
Collected by:

CONSTRUCTION OFFICIAL

UCC NEW JERSEY
CERTIFICATE

IDENTIFICATION

Block 672 Lot 12 Qual 0
Work Site Location 705 HWY 70
INT. ALI EXT. FOOTPRINT
Owner in Fee/Occupant MEIZ ENTER
Address 2 WOODLAND DR.
DALLAS PA., NJ
Telephone ()
Contractor D K ARCH.
Address 1701 E ATLANTIC BLVE.
POMPANO BEACH, F. 33060-
Telephone () Fax ()
Lic. No. or Bldrs. Reg. No.
Federal Emp. No. 74-13329

Home Warranty No.
Type of Warranty Plan: [] State [] Private
Use Group U
Maximum Live Load 0
Construction Classification
Maximum Occupancy Load 0
Description of Work/Use:

INTERIOR REMODELING

[] CERTIFICATE OF OCCUPANCY
This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

[] CERTIFICATE OF CLEARANCE - LEAD ABATEMENT 5:17
This serves notice that based on written certification, lead abatement has been performed as per BlAC 5:17, to the following extent:
[] Total removal of lead-based paint hazards in scope of work
[] Partial or limited time period () years; see file

[] CERTIFICATE OF APPROVAL
This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved.
If the permit was issued for minor work, this certificate has based upon that was visible at the time of inspection.

[] CERTIFICATE OF CONTINUED OCCUPANCY
This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

[X] TEMPORARY CERTIFICATE OF OCCUPANCY/COMPLIANCE
If this is a Temporary Certificate of Occupancy or Compliance, the following conditions must be met no later than October 19, 1998 or the owner will be subject to fine or order to vacate:
PENDING COMPLIANCE W/ BRICKTWP PLANNING BOARD

[] CERTIFICATE OF COMPLIANCE
This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until , .

Fee \$ 0
Paid [X] Check No. 999
Collected by: CS



CERTIFICATE

Date Issued 10-20-98
Control #
Permit # 97-3486

IDENTIFICATION

Block 672 Lot 12
Work Site Location 705 Highway 70
Owner in Fee Bricktown Babs Inc.
Address 2 Woodland Drive
Dallas, Pa. 19612
Tele. ()
Contractor D.K. Architects
Address 1701 E. Atlantic Blvd.
Pompano Beach, Fl. 33060
Tele. ()
Lic. No. or Bldrs. Reg. No.
Federal Emp. No.
or Social Security No.

Home Warranty No. N/A
Use Group A-3
Maximum Live Load
Description of Work/Use:

Alterations to existing building

"TGIF RESTAURANT"

Type of Warranty Plan: [] State [] Private
Construction Classification
Maximum Occupancy Load

CERTIFICATE OF OCCUPANCY/APPROVAL

☐ CERTIFICATE OF OCCUPANCY

This serves notice that said building, structure, or equipment has been constructed or installed in accordance with the New Jersey Uniform Construction Code, and is approved for use and/or occupancy.

☐ CERTIFICATE OF APPROVAL

☐ CERTIFICATE OF CONTINUED OCCUPANCY
This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

XXXX ☒ TEMPORARY CERTIFICATE OF OCCUPANCY

If this is a Temporary Certificate of Occupancy the following conditions must be met no later than November 20, 1998 or the owner will be subject to a fine or order to vacate:

Compliance with Brick Twp. Planning Board & Engineering

Fee \$
Paid [] Check No.
Collected by:

CONSTRUCTION OFFICIAL



CONSTRUCTION PERMIT

Date Issued 11-18-97
Control #
Permit # 3486-97

IDENTIFICATION Block 107A Lot 12
Work Site Location 705 Hwy 70 Contractor DK Architect
Owner in Fee Brick House Builders Inc. Address Perpigne Blvd
Address Dallas, TX Tele. ()
Tele. () 674-8737 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:

*interior alt. exterior
finish*

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 \$ 174000.-
U.C.C. Form F-170C
CONSTRUCTION OFFICIAL

PAYMENTS (Office Use Only)	
Building	<u>3460.-</u>
Plumbing	<u>690.-</u>
Electrical	
Fire Protection	<u>160.-</u>
Other	
Other	
DCA Training Fee	<u>139.-</u>
Cert. of Occ.	
Other	<u>244 FF 30.-</u>
Total	<u>5459.-</u>
Check No.	
Cash	
Collected By:	<u>MD</u>

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 work installed conforms to the approved plans and 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 given.

☐ Required inspections for all subcodes for one and two family dwellings are the following:

1. The bottom of footing trenches before placement of footings, except that in the case 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 and connections prior to covering with finish or infill material; plumbing underground services, rough piping, water service, sewer, septic services and storm drains; electrical rough wiring, panels and service installations; insulation installations;
4. Installation of all finished materials, sealings of exterior joints; plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

☐ 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. Any violations of the approved plans and/or permit will be noted and the holder of the permit notified of discrepancies.

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

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



CONSTRUCTION PERMIT

Date Issued

Control #

Permit #

PD.

97-3486

34697 + C

IDENTIFICATION Block

672

Lot

12

Work Site Location

TGIFRIDA

Contractor

Mon-oc Mechanical Inc

Address

118 RIVER AVE

Owner in Fee

BRICKTOWN PUBS

Address

118 RIVER AVE LAKELWOOD, NJ 08701

Address

Tele.

(732) 367-5111

Lic. No. or Bldrs. Reg. No.

B01851

Exp. Date

1999

Federal Emp. No.

22-3072055

##0004**

or Social Security No.

3486**

Is hereby granted permission to perform the following work:

[] BUILDING

[X] PLUMBING

[] OTHER

[] ELECTRICAL

[] FIRE PROTECTION

DESCRIPTION OF WORK:

ADD & MODIFY EXISTING PLUMBING FIXTURES

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 \$

500.5

CONSTRUCTION OFFICIAL

U.C.C. Form F-170A

1 WHITE - OFFICE

2 CANARY - TAX ASSESSOR

3 PINK - JACKET

4 GOLD - APPLICANT

PAYMENTS (Office Use Only) 672 #

Building

120.5

Plumbing

12.5

Electrical

PLUMBING

Fire Protection

TOTAL

Other

CHECK

Other

CHANGE

DCA Training Fee

NO. 5 00000005

Cert. of Occ.

00000005

Other

Total

120.5

Check No.

3321

Cash

Collected By:

7

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

02/05/98 NO. 5 0011A005
BLOCK 672 #
LOT 12 #
FIRE
D.C.A.
TOTAL
CHECK
CHANGE
92 1 93 93 0 13
3486##
0004

UCC NEW JERSEY
PERMIT UPDATE

02-05-97
Update Issued 01/01/54
Control #
Permit # 97-3486+D
Permit Issued 11/24/97

IDENTIFICATION Block 672 Lot 12

Work Site Location 705 HWY 70
FIRE SUPPRESSION
Owner in Fee BRICKTOWN PUBS
Address 709 RT 70
BRICKS PA., NJ 08723-
Telephone (732)262-0937

Contractor OXYGEN SUPPLY CO INC
Address 1368 RTE 9
LAKEWOOD, NJ 08701-
Telephone (908)370-2330
Lic. No. or Bldrs. Reg. No. Exp. Date / /
Federal Emp. No. 22-2111640
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 Chemical

Estimated Cost of Work \$ 800

PAYMENTS (Office Use Only)
Building 0
Electrical 0
Plumbing 0
Fire Protection 92
Elevator Devices 0
Other
DCA Training Fee 1
Cert. of Occ. 0
Other
Total 93
Check No. # 25722
Cash
Collected By: *[Signature]*

[Signature]
CONSTRUCTION OFFICIAL

[Signature]

Buck



PERMIT UPDATE

Date Update Issued 980227
Control # 911403
Permit #
Date Permit Issued 971210

IDENTIFICATION Block 672 Lot 12
Work Site Location COR: CHAMBER BRIDGE Contractor GILLIGAN & NARDONE, LLC
Route #70 Address 888 DERRY DRIVE
Owner in Fee BRICKTOWN DUBS TOWER TOMS RIVER, NJ
Address 206 BLIND LN. Tel. (202) 270-3800
DALLAS TX Lic. No. or Bldrs. Reg. No. 4759
Tel. (212) 674 8737 Fed. Emp. No. 22-2381158

Is hereby granted permission to perform the following work:

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

DESCRIPTION OF WORK:

2-200AMP MCB PANEL 6- 1/4 HP FAN? EVAP FAN
1-75KVA TRANSFORMER 10- LITER
10- Receptacles

Estimated Cost of Work \$ 1000.

Construction Official

Date

U.C.C. F190
(rev. 3/96)

1 WHITE—INSPECTOR COPY 2 CANARY—OFFICE COPY 3 PINK—OFFICE COPY 4 GOLD—APPLICANT COPY

PAYMENTS (Office Use Only)

Building _____
Electrical _____
Plumbing _____
Fire Protection _____
Elevator Devices _____
Other _____
DCA Training Fee _____
Cert. of Occupancy _____
Other _____
Total 185.-
Check No. 1523
Cash _____
Collected by _____

T.G.I.F.



**BUILDING
SUBCODE
TECHNICAL SECTION**



Date Received 11-18-97
Date Issued _____
Control # _____
Permit # 3486-97

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

Block 672 Lot 12
Work Site Location CHAMBERS BRIDGE ROAD, ROUTE 70
705 HWY 70
Owner in Fee BRICKTOWN PUBS INC
Address 2 WOODLAND DR
DALLAS TX 75212
Tele. (214) 674 8737
Contractor DK ARCHITECT
Address 1701 E ATLANTIC BLVD
POMPADOUR BEACH FL 33060
Tele. (854) 941 3329
Lic. No. or Bldrs. Reg. No. _____
Federal Emp. No. _____ or Social Security No. _____

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.

Signature _____

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

INTERIOR REMODELING OF EXISTING BLDG;
EXTERIOR CHANGE OF FACADE (COMPLIANCE
WITH TGI FRIDAY'S EXTERIOR APPEARANCE).

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)
☐ No Plans Req.			Type:	Failure Failure Approval Initial
☒ All	<u>10-5-97</u>	<u>FM</u>	Footing	<u>for. Tracer Batten Wall 12/10/97</u>
☐ Footing			Foundation	<u>12/17/97</u>
☐ Foundation			Slab	<u>1/26-31-97</u>
☐ Frame			Frame	<u>1/7/98</u>
☐ Other			Insulation	
Joint Plan Review Required:			Finishes:	
☐ Elec. ☐ Plumb. ☐ Fire			Energy	
SUBCODE APPROVAL			Mechanical	
☐ CO ☐ CCO ☐ LCA			TCO	
Date: <u>2-27-98</u>			Other	<u>FOOTING FREEZER BOX 12-5-97</u>
Approved By: <u>FM</u>			Final	<u>2-20-98</u>

TYPE OF WORK:

- ☐ New Building
☐ Addition
☐ Alteration
☐ Roofing
☐ Siding
☐ Fence _____ Height (6' or over)
☐ Sign _____ Sq. Ft.
☐ Pool
☐ Asbestos Abatement
☒ Other INTERIOR & EXTERIOR
☒ Other INTERIOR DEMOLITION
☐ Demolition

(Office Use Only)

FEE

\$ _____

B. BUILDING CHARACTERISTICS

Use Group Present A Proposed A
Constr. Class Present _____ Proposed _____
No. of Stories ONE
Height of Structure 20' Ft.
Area—Largest Floor 4,301 Sq. Ft.
New Bldg. Area/All Floors 4,301 Sq. Ft.
Volume of New Structure _____ Cu. Ft.
Total Land Area Disturbed _____ Sq. Ft.

Est. Cost of Bldg. Work:

1. New Bldg. \$ _____
2. Alteration \$ _____
3. Total (1+2) \$ _____

Administrative Surcharge

Paid ☐ Check # _____ Minimum Fee \$ _____
Collected by: _____ DCA TRAINING FEE \$ _____
TOTAL FEE \$ _____

12/18/97

12/18/97 Footing OK (FND)

2-3-98 Above Ceiling OK-JC

2-20-98 Architect TO Certify Additional Loading
ON Joist For New ROOF A/C unit.
T/CO FOR 10 DAYS
Need Grab Bars in Toilet & Cage on Ladder



ELECTRICAL SUBCODE TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

Brick

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

Block 672 Lot 12
Work Site Location CHAMBERS BRIDGE RD & RT. #70
BRICKTOWN, NJ.
Owner in Fee/Occupant BRICKTOWN PUBS INC. / T&T Fridays
Address 2 WOODLAND DRIVE
DALLAS, PA - 18612
Tele. (212) 674-8737
Contractor GILLIGAN & NARDINI ELEC. INC.
Address 888 DERRY DR.
TOMS RIVER NJ 08753
Tele. (732) 270-3800 Fax ()
Lic. No. 4759
Federal Emp. No. 22-2381158

B. ELECTRICAL CHARACTERISTICS

Use Group Present RESTAURANT Proposed RESTAURANT
[] Pole/Pad # [] Temporary [] Other
Building Occupied as Utility Co.
Est. Cost of Elec. Work \$ 120,000.

D. TECHNICAL SITE DATA

QTY. SIZE ITEMS
164 Lighting Fixtures
126 Receptacles
11 Switches
8 Detectors
100-47114 Light Poles
10 Motors—Fract: HP
21 Emergency & Exit Lights
25 Communications Points
12 Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

2 C 3.6 KW CHESD MOTOR
1 Q 3.9 KW STORAGE POOL/SPA/HOT TUB
1 C 11 KW COPPER MAKEUP
1 C 11 KW KW Oven/Surface Unit Convection
1 15 KW Elec. Water Heater
1 3 KW Elec. Dryer/Receptacle
5 14-1 KW Dishwasher
1 10 HP Garbage Disposal
4 3 KW Central A/C Unit
1 1140A HP/KW Space Heater/Air Handler
3 400 A KW Baseboard Heat
8 102 HP Motors 1/+ HP
1 17.6 KW KW Transformer/Generator
4 200A AMP Service
7.6 KW 4 21 AMP Subpanels
1 102 AMP Motor Control Center
1 17.6 KW KW Elec. Sign/Outline Light
4 200A KW A/C CONTROL
7.6 KW 4 21 SUB PANELS

FEE (Office Use Only)

DEC 10 97 01 14 03

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)
[] No Plans Required			Type:	Failure Failure Approval Initial
Joint Plans Review Required:			Rough	<u>OVER</u>
[] Building [] Plumbing			Temp. Serv.	<u>1/20/98 5433</u> <u>2/3/98 5477</u>
[] Fire [] Elevator			Constr. Serv.	<u>OVER</u> <u>12/10/97 5433</u>
[X] Elec. Plans Approved			TCO	<u>OVER</u> <u>12/10/97 5433</u>
Date: <u>971105</u>			Other	<u>OVER</u> <u>12/10/97 5433</u>
Approved by: _____			Service	<u>OVER</u> <u>12/10/97 5433</u>
			Final	<u>I 2/10/98 5433</u> <u>3/5/98 5433</u>
			Temp. Cut-in-Card Date Issued	<u>2/3/98 5433</u>
			Final Cut-in-Card Date Issued	<u>3/5/98 5477</u>

SUBCODE APPROVAL

[] CO [] CCO [] CA
Date: 3/5/98
Approved by: 5477

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 and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

Licensed Electrical Contractor [] Exempt Applicant

U.C.C. F120
(rev. 3/96)

1 White = Inspector Copy
3 Pink = Office Copy

2 Canary = Office Copy
4 Gold = Applicant

Administrative Surcharge \$
Minimum Fee \$ 1562-
DCA Training Fee \$ 96-
RPF TOTAL FEE \$ 1598-

1484



ELECTRICAL SUBCODE TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

Back

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

Block 672 Lot 12
Work Site Location TGI FRIDAYS - CHAMBERS BRIDGE RD RT 70 BRICK NJ
Owner in Fee/Occupant South Jersey Pubs
Address CHAMBERS BRIDGE RD RT 70 BRICK NJ

Tele. ()
Contractor ADT Security Systems
Address 2540 RTE 130 CRANFORD NJ

Tele. (609) 860 2146 Fax (609) 860 2150
Lic. No. _____
Federal Emp. No. 581814102

B. ELECTRICAL CHARACTERISTICS

Use Group Present _____ Proposed _____
[] Pole/Pad # _____ [] Temporary [] Other _____
Building Occupied as _____ Utility Co. _____
Est. Cost of Elec. Work \$ _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)			
[] No Plans Required			Type:	Failure	Failure	Approval	Initial
Joint Plan Review Required:			Rough			2/2/98	5433
[] Building [] Plumbing			Temp. Serv.				
[] Fire [] Elevator			Constr. Serv.				
[] Elec. Plans Approved			TCO			2/27/98	5433
Date: _____			Other			3/5/98	5433
Approved by: _____			Service				
			Final				

SUBCODE APPROVAL

[] CO [] CCO [] CA
Date: 3/5/98
Approved by: [Signature] 5433

Temp. Cut-in-Card Date Issued _____

Final Cut-in-Card Date Issued _____

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 and perform the work listed on this application.

[Signature]
Applicant's Signature/Contractor's Seal and Signature

[] Licensed Electrical Contractor [] Exempt Applicant

D. TECHNICAL SITE DATA

QTY.	SIZE	ITEMS
		Lighting Fixtures
		Receptacles
		Switches
		Detectors
		Light Poles
		Motors—Fract. HP
		Emergency & Exit Lights
		Communications Points
		Alarm Devices/F.A.C. Panel
		TOTAL NUMBERS
		Pool Permit/with UW Lights
		Storable Pool/Spa/Hot Tub
		KW Elec. Range/Receptacle
		KW Oven/Surface Unit
		KW Elec. Water Heater
		KW Elec. Dryer/Receptacle
		KW Dishwasher
		HP Garbage Disposal
		KW Central A/C Unit
		HP/KW Space Heater/Air Handler
		KW Baseboard Heat
		HP Motors 1/+ HP
		KW Transformer/Generator
		AMP Service
		AMP Subpanels
		AMP Motor Control Center
		KW Elec. Sign/Outline Light

FEE (Office Use Only)

JAN 28 1998 0 0 0 7 00

\$ _____

Administrative Surcharge \$ _____
CK 0200336211 Minimum Fee \$ _____
DCA Training Fee \$ _____
491 RT TOTAL FEE \$ 40.



ELECTRICAL 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 672 Lot 12
Work Site Location Chambers Bridge Rd & Rt. #70
Owner in Fee/Occupant B. Rickman, NJ.
Address 2 Wainland Drive
Tel. (212) 674-8737
Contractor Giuliano & Nardini Elec. Inc.
Address 7045 River Rd. NJ 08753
Tel. (732) 320-3800 Fax ()
Lic. No. 4759
Federal Emp. No. 22-2381158
B. ELECTRICAL CHARACTERISTICS
Use Group Present RESTAURANT Proposed RESTAURANT
[] Pole/Pad # [] Temporary [] Other
Building Occupied as Utility Co.
Est. Cost of Elec. Work \$ 120,000

JOB SUMMARY (Office Use Only)	
PLAN REVIEW	Date Initial
[] No Plans Required	INSPECTIONS
Joint Plan Review Required:	Type: Failure Failure Approval Initial
[] Building [] Plumbing	Rough <u>12/18/85</u> <u>5477</u>
[] Fire [] Elevator	Temp. Serv. <u>12/18/85</u> <u>5477</u>
[X] Elec. Plans Approved	Const. Serv. <u>04/86</u> <u>5477</u>
Date: <u>9/11/85</u>	TCO <u>04/86</u> <u>5477</u>
Approved by: <u> </u>	Other <u>04/86</u> <u>5477</u>
	Service <u>04/86</u> <u>5477</u>
SUBCODE APPROVAL	Final <u>12/18/85</u> <u>5477</u>
LTCO [] CCO [] CA	Temp. Cut-in-Card Date Issued <u>2/3/98</u> <u>5477</u>
Date: <u>9/11/85</u>	Final Cut-in-Card Date Issued <u>3/5/98</u> <u>5477</u>
Approved by: <u> </u>	

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 and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

Licensed Electrical Contractor [] Exempt Applicant



Date Received
Date Issued
Control #
Permit #

D. TECHNICAL SITE DATA

QTY.	SIZE	ITEMS
164		Lighting Fixtures
126		Receptacles
11		Switches
8		Detectors
100-4200		Light Poles
10		Motors—Fract. HP
21		Emergency & Exit Lights
25		Communications Points
12		Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

26	3.6 kW	Pool Permits with UV Lights
16	3.9 kW	Storage Tanks with UV Lights
15	11 kW	KW Oven/Surface Thrift Circuits
1		KW Elec. Water Heater
1	1.5	KW Elec. Dryer/Receptacle
1	3	KW Dishwasher
1	14-1	KW Garbage Disposal
1	12	KW Central A/C Unit
1		HP/KW Space Heater/Air Handler
1		KW Baseboard Heat
4	3	HP Motors 1/4 HP
1	1140A	KW Transformer/Generator
3	400A	AMP Service
8	1.3	AMP Motor Control Center
1	17.6 kW	KW Elec. Sign/Outline Light
4	200A	SUBS. Panels
7.6 kW	4.97	

Administrative Surcharge	\$
Minimum Fee	\$ 1500
DCA Training Fee	\$ 96
RPF TOTAL FEE	\$ 1596

FEE (Office Use Only)

DEC 10 97 01 14 03

(12/10/97 APPROX 270 FT FROM SCRAM TO POLE.

- 3 @ 4" POWER, 1 @ 4" TEL, 1 @ 2" TV

- 1" FOR SIGN. APPROVED 5433

- 12/12/97 NEED AVAILABLE FAULT CURRENT & LOAD CALC INSIDE SLAB APPROVED 5433

- 12/12/97 PARTIAL RW - TRANSITION FROM SCRAM PVC TO EMT IN NEW WALL FRAMING

- 12/30/97 KITCHEN WALLS IN EMT APPROVED 5433

- 1/5/98 PARTIAL RW - BAR AREA - EMT

- 1/7/98 PARTIAL RW - FINE ALUMIN KITCHEN BAR AREA

- 1/8/98 OK - NEEDS PERMITS

- 1/9/98 PARTIAL RW - EAST WALL KITCHEN TO S WALL

- 1/9/98 " " WEST WALL " " " "

- 1/12/98 " " South " & BOOTHS " " " "

- 1/15/98 " " " " " " " "

- APPROVED - CURRENT AT SCRAM - 65K IS SCRAM RATING / 40K ACTUAL

- 1/20/98 PROPOSED FOR EQUIPMENT ON BACK ORDER

- 1/26/98 SERVICE I & NEED AVAILABLE FAULT I

- 2/2/98 (2) AVAILABLE PERMITS & SECURE ALL CABLE

- 2/2/98 (3) PARTIAL RW - BAR AREA COMPLETE.

- 2/2/98 STILL ABOVE 5433

- 2/2/98 CEILING - D. AREA OK 5433. FILE FOR ALL WORK

- 3/4/98 SAME & SEE ATTACHED 5433

- 3/5/98 FINAL OK - SEE PERMIT 1644 FOR SIGN

DESIGNED BY 11103

T.G.I.F.



**FIRE PROTECTION
SUBCODE
TECHNICAL SECTION**



Date Received 11-18-97
Date Issued _____
Control # _____
Permit # 3486-97

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-8000.

Block 692 Lot 12
Work Site Location CHAMBERS BRIDGE ROAD, ROUTE 90
705 HWY 70
Owner in Fee BRICKTOWN PUBS INC
Address 2 WOODMAN RD
DALLAS TX 75212
Tele. (714) 674-8737
Contractor D K ARCH. F&E
Address 701 E ATLANTIC BLVD
DOMINIC BEACH FL 33060
Tele. (954) 541-3329
Lic. No. _____
Federal Emp. No. _____ or Social Security No. _____

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present RESTAURANT Proposed RESTAURANT
Constr. Class. Present _____ Proposed _____
Heating Systems ☒ New ☐ Existing
Type: ☒ Gas ☐ Oil ☒ Electrical ☐ Solar
☐ Other _____
Location: _____
Total Est. Cost of Fire Prot. Work \$ \$8000 ☐ Other _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW:	INSPECTIONS:	Dates (Month/Day)			
		Failure	Failure	Approval	Initial
☐ No Plans Required	Type:				
Joint Plan Review Required:	Suppression Test				
☐ Bldg. ☐ Plumb.	Fire Alarm Test	<u>2/2/98</u>			
☐ Elec. ☐ Elevator	Smoke Test				
☐ Fire Plans Approved	Mechanical				
Date: <u>11-18-97</u>	TCO				
Approved by: _____	Other <u>close</u>				
SUBCODE APPROVAL:	Other				
☐ CO ☐ CCO ☐ CA	Other				
Date: _____	Other				
Approved by: _____	Other				

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.

SD do not per contractor
Not wired for
shut down remote
inst and extca
strobe by west exit door naded.

D. TECHNICAL SITE DATA

Description of Work

Water Supply Source N/A
Method of Valve Supervision N/A
Local Alarm Supervision N/A
Central Supervision N/A
Proprietary Supervision N/A

Flammable Liquid Storage Tanks () Capacity N/A Fuel _____
Combustible Liquid Storage Tanks () Capacity N/A Fuel _____
L.P.G. Storage Tanks () Capacity N/A Fuel _____
L.N.G. Storage Tanks () Capacity N/A Fuel _____

	Number
Wet Sprinkler Heads	<u>0</u>
Dry Sprinkler Heads	<u>0</u>
TOTAL <u>Need list on lunch</u>	
Smoke Detectors	<u>9</u>
Heat Detectors	<u>0</u>
TOTAL	<u>9</u>
Stand Pipes	<u>0</u>
Kitchen Hood Exhaust Systems	<u>1</u>
Pre-Engineered Systems	
CO ₂ Suppression	
Halon Suppression	
Foam Suppression	
Dry Chemical	<u>✓</u>
Wet Chemical	
Gas or Oil Fired Appliance - REST.	<u>5</u>
OTHER HVAC EQUIP - GAS	<u>9</u>

FEE (Office Use Only)

35-
35
46-
92
230
322

Administrative Surcharge \$ _____
Paid ☐ Check # _____ Minimum Fee \$ _____
DCA Training Fee \$ _____
Collected by: _____ TOTAL FEE \$ 760

above ceiling

Insp

done 2/6/98

OK

but

Pelco band insulation

not done around hood duct to roof

check same on final also

remote light fix all duct Detectors required

told them to relocate all STD within

3' of any air vent only

CF 2/3/98

Rit Hood duct insulated with 2 hours
rated material of 20 roof

tested

fire alarm
2/25/98

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
FIRE PROTECTION
SUBCODE
TECHNICAL SECTION

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

Block 672 Lot 12
Work Site Location 705 RT 70

ALARM & SMOKE DETECTORS

Owner in Fee D'ONOFRIO, DAN

Address RT 37 & 166 DOVER HALL

TOMS RIVER, NJ 08753-

Tele. (732) 349-2710

Contractor ADT SECURITIES

Address 2540 RT 130

CRANFORD, NJ

Tele. (609) 260-2146

Lic. No. or Bldgs. Reg. No.

Federal Emp. No. 58-1814102

or Social Security No.

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present Proposed A-3

Construction Class Present Proposed

Heating Systems [] New [] Existing

Type: [] Gas [] Oil [] Electrical [] Radiant

[] Other

Location:

Total Est Cost of Fire Prot. Work \$ 4,500 [] Other

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

Joint Plan Review Required: Type Failure Failure Approval Initial

[] Bidg [] Elevator

[] Plumb [] Elevator

[] Fire Plans Approved

Date:

Approved By:

SUBCODE APPROVAL

[] CO [] CCO

Date:

Approved By:

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.

Fire Alarm only

Update

Date Received 01/08/98
Date Issued 1/30/98
Control # 0073-13-149348644
Permit #

D. TECHNICAL SITE DATA

Description of Work

Water Supply Source

Method of Valve Supervision

Local Alarm Supervision

Central Supervision

Proprietary Supervision

Flammable Liquid Storage Tanks

Combustible Liquid Storage Tanks

L.P.G. Storage Tanks

L.R.G. Storage Tanks

Wet Sprinkler Heads

Dry Sprinkler Heads

TOTAL

Smoke Detectors

Heat Detectors

TOTAL

Stand Pipes

Kitchen Hood Exhaust Systems

Pre-Engineered Systems

CO2 Suppression

Halon Suppression

Foam Suppression

Dry Chemical

Wet Chemical

Gas or Oil Fired Appliance

Other 17 ALARM/SMOKE

Other

Administrative Surcharge

Paid [] Check \$

Minimum Fee

Collected by:

DCA Training Fee

Fire Alarm Systems
100% first Required

45.00

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
FIRE PROTECTION
SUBCODE
TECHNICAL SECTION

Date Received 01/29/98
Date Issued 01/01/54
Control #
Permit # 97-3486+B

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

Block 672 Lot 12

Work Site Location 705 HWY 70

WET SPRINKLER HEADS

Owner in Fee METZ ENTER

Address 2 WOODLAND DR.

DALLAS PA., NJ 18612-

Tele. (212) 674-8737

Contractor MON-OC MECH INC

Address 1306 RIVER AVE

LAKEMOOD, NJ 08701-

Tele. (908) 367-5111

Lic. No. or Bldrs. Reg. No.

Federal Emp. No. 22-3072035

or Social Security No.

D. TECHNICAL SITE DATA

Description of Work

Water Supply Source

Method of Valve Supervision

Local Alarm Supervision

Central Supervision

Proprietary Supervision

Flammable Liquid Storage Tanks

Combustible Liquid Storage Tanks

L.P.G. Storage Tanks

L.M.G. Storage Tanks

Number FEE (Office Use Only)

Wet Sprinkler Heads

Dry Sprinkler Heads

Smoke Detectors

Heat Detectors

TOTAL

Stand Pipes

Kitchen Hood Exhaust Systems

Pre-Engineered Systems

CO2 Suppression

Halon Suppression

Foam Suppression

Dry Chemical

Wet Chemical

Gas or Oil Fired Appliance

Other 4 WET SPRINKLER

Other

Administrative Surcharge

Paid [] Check #

Collected by:

Minimum Fee

TOTAL FEE

DCA Training Fee

SIGNATURE

U.C.C. Form F-1408

8. FIRE PROTECTION CHARACTERISTICS

Use Group Present B Proposed U

Construction Class Present Proposed

Heating Systems [X] New [] Existing

Type: [X] Gas [] Oil [] Electrical [] Solar

[] Other

Location: ROOF TOP

Total Est Cost of Fire Prot. Work \$ 1,200 [] Other

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

Joint Plan Review Required:

[] Bldg [] Street

[] Plumb [] Elevator

[] Fire Plans Approved

Date:

Approved By:

SUBCODE APPROVAL

[] CO [] CCO

Date:

Approved By:

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.

SIGNATURE

Full discharge test with agent
Required 10% PWD
TOWNSHIP OF BRICK UCC NEW JERSEY
401 CHAMBERS BRIDGE RD Manufacture FIRE PROTECTION
DIVISION OF INSPECTIONS SUBCODE
TECHNICAL SECTION

60 days

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

Block 672 Lot 12
Work Site Location 705 HWY 70

FIRE SUPPRESSION

Owner in Fee BRICKTOWN PUBS
Address 709 RT 70

BRICKS PA, NJ 08723-

Tele. (332) 262-0937

Contractor OXYGEN SUPPLY CO INC

Address 1368 RTE 9

LAKEWOOD, NJ 08701-

Tele. (908) 370-2330

Lic. No. of Bldgs. Reg. No.

Federal Emp. No. 22-2111640

or Social Security No. 1

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present A-3 Proposed A-3

Construction Class Present A-3 Proposed A-3

Heating Systems [] New [] Existing

Type: [] Gas [] Oil [] Electrical [] Solar

[] Other

Location:

Total Est Cost of Fire Prot. Work \$ 800 [] Other

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

Joint Plan Review Required:

[] 81dg [] Elect

[] Plumb [] Elevator

[] Fire Plans Approved

Date: 2/9/98

Approved By: [Signature]

SUBCODE APPROVAL

[] CO [] CCO [] CA

Date:

Approved By:

INSPECTIONS

Type Failure Failure Approval Initial

Supper Test

F-Alarm Test

Smoke Test

Mechanical

TCO

Other

Other

Other

Dates (Month/Day)

Failure Failure Approval Initial

Supper Test

F-Alarm Test

Smoke Test

Mechanical

TCO

Other

Other

Other

D. TECHNICAL SITE DATA

Description of Work

Water Supply Source

Method of Valve Supervision

Local Alarm Supervision

Central Supervision

Proprietary Supervision

Flammable Liquid Storage Tanks

Combustible Liquid Storage Tanks

L.P.G. Storage Tanks

L.N.G. Storage Tanks

Wet Sprinkler Heads

Dry Sprinkler Heads

TOTAL

Smoke Detectors

Heat Detectors

TOTAL

Stand Pipes

Kitchen Hood Exhaust Systems

Pre-Engineered Systems

CO2 Suppression

Halon Suppression

Foam Suppression

Dry Chemical

Wet Chemical

Gas or Oil Fired Appliance

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Other

Date Received 02/04/98
Date Issued 01/01/54
Control #
Permit # 97-3486+D

Install to Manufacturers
spec(s) have installation
instruction on site for
inspection

Number FEE (Office Use Only)

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

Paid [] Check #
Collected by: Administrative Surcharge \$
Minimum Fee \$
TOTAL FEE \$
DCA Training Fee \$

92.43
1

SIGNATURE

U.C.C. Form F-140B

1000-10-0-00000000
 1000-10-0-00000000
 1000-10-0-00000000
 1000-10-0-00000000

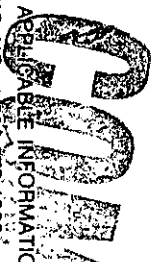
SECTION 3
 SECTION 3
 SECTION 3
 SECTION 3

SECTION 3
 SECTION 3
 SECTION 3
 SECTION 3

Tested system

- (1) leaked two edons need letter from supply repair made in 8-13-81
- (2) Add Remote light 8-13-81 and 8-13-81 light west door for better free
- (3)

T.G. 1. F.



PLUMBING
SUBCODE
TECHNICAL SECTION



Date Received 11-18-99
Date Issued
Control #
Permit # 3486-99

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION WHEN CHANGING CONTRACTORS. NOTIFY THIS OFFICE. CALL UTILITY DIG NO. 1-800-272-2000.

Block 642 CHAMBERS BRIDGE ROAD, ROUTE 70 Lot 12
Work Site Location
Owner in Fee B&C Team Pubs Inc
Address 24000400 RD 18612
Tel. (773) 674-8737 733-344-544
Contractor D R Architect Mon-O-C Mechanical
Address 1701 E 91st Ave 1118 RUCOL AVE
Bannockburn 33060 LAKEWOOD 7505704
Tel. (847) 941-3329 732-567511
Lic. No. 73101851
Federal Emp. No. of Social Security No. 22-3072055

B. PLUMBING CHARACTERISTICS

Use Group Present RESTAURANT Proposed RESTAURANT
Building Sewer Size 4" EXIST./NEW Public Sewer Private Septic N.A.
Water Service Size 2" EXIST. Public Water Private Well N.A.
Estimated Cost of Plumbing Work \$ 6,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW:	INSPECTIONS	Dates (Month/Day)
☐ No Plans Required	Type:	Failure Failure Approval Initial
Joint Plan Review Required:	Slab	12-8-97
☐ Bldg. ☐ Elec.	Rough	1-2-98
☐ Fire ☐ Elevator	Water	
☐ Plumb. Plans Approved	Sewer	
Date: 11/14/99	Fixtures	2-26-98
Approved by: [Signature]	Gas Equipment	2-26-98
	Gas Piping	2-11-99
	Solar	
	TCO	
SUBCODE APPROVAL:		
☐ CO ☐ CCO ☐ CCA		
Approved By: [Signature]		
Date: 12-26-99		

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 and perform the work listed on this application.

Signature—Contractor Seal

☒ Licensed Plumbing Contractor ☐ Exempt Applicant

D. TECHNICAL SITE DATA (List all fixtures.)

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
0	Water Closet (3 EXIST.)	10
0	Urinal/Bidet (2 EXIST.)	
1 (NEW)	Bath Tub	
1 (NEW)	Lavatory (2 EXIST.)	10
0	Shower	
27	Floor Drain	270
9	Sink	90
1	Dishwasher	10
0	Drinking Fountain	
0	Washing Machine	
0	Hose Bibb	
1	Water Heater	35
0	Fuel Oil Piping	
21454324	Gas Piping (3" EXIST.)	175
0	Steam Boiler	
0	Hot Water Boiler	
0	Sewer Pump	
0	Interceptor/Separator	35
1 (EXIST.)	Backflow Preventer	35
1 (EXIST.)	Greasetrap	
0	Water Cooled A/C	
	or Refrigeration Unit	
EXIST.	Sewer Connection	
EXIST.	Water Service Connection	
0	Active Solar System	
	Other	

Paid ☐ Check #	Administrative Surcharge \$
	Minimum Fee \$
DCA Training Fee \$	
Collected by: TOTAL \$	670

- 12-9-97- ① Missing Vent by bar
- ② Floor drain S trapped

OK to begin backfilling rest of line DN

2-2-98
 aerial valve to pit equipment lead
 gauge not holding

2-20-98
~~Regr~~ a/c cond not opened as yet
 Dye test are before ga cock on roof with
 H & C old covered on land read by employee
 both

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
PLUMBING
SUBCODE
TECHNICAL SECTION

Date Received 02/04/98
Date Issued 02/04/98
Control #
Permit # 97-3486+C

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

Block 672 Lot 12
Work Site Location 705 HWY 70 T&E FRIDAY
MODIFY PLUMB FIXTURES

Owner in Fee MEZZ ENTER
Address 2 WOODLAND DR.
DALLAS PA., NJ

Tele. ()
Contractor MON-OC MECH INC
Address 1306 RIVER AVE
LAKEWOOD, NJ 08701-

Tele. (908)367-5111
Lic. No. or Bids. Reg. No. 45101851
Federal Emp. No. 22-3072055
or Social Security No.

B. PLUMBING CHARACTERISTICS
Use Group Present B
Building Sewer Size
Water Sewer Size
Estimated Cost of Plumbing Work \$ 500

JOB SUMMARY (Office Use Only)
PLAN REVIEW
☐ No Plans Required
Joint Plan Review Required:
☐ Bidg ☐ Elect
☐ Fire ☐ Elevator
☐ Plumb. Plans Approved
Date:

Approved By:
SUBCODE APPROVAL
☐ CO ☐ CCO ☐ CA
Approved By:
Date:

D. TECHNICAL SITE DATA (List all fixtures.)

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
0	Water Closet	0
1	Urinal / Bidet	10
0	Bath Tub	0
4	Lavatory	40
0	Shower	0
0	Floor Drain	0
0	Sink	0
0	Dishwasher	0
0	Drinking Fountain	0
0	Washing Machine	0
0	Hose Bib	0
0	Water Heater	0
0	Fuel Oil Piping	0
0	Gas Piping	0
0	Steam Boiler	0
0	Hot Water Boiler	0
0	Sewer Pump	0
0	Interceptor / Separator	0
0	Backflow Preventer	0
0	Grease Trap	0
0	Water Cooled A/C	0
2	or Refrigeration Unit	70
0	Sewer Connection	0
0	Water Service Connection	0
0	Active Solar System	0
0	Other	0

INSPECTIONS
Type Failure Failure Approval Initial
Slab
Rough
Water
Sewer
Fixtures
Gas Equip.
Gas Piping
Solar
TCO

Paid ☐ Check #
Collected by:
Administrative Surcharge \$ 0
Minimum Fee \$ 0
TOTAL FEE \$ 120

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
and perform the work listed on this application.

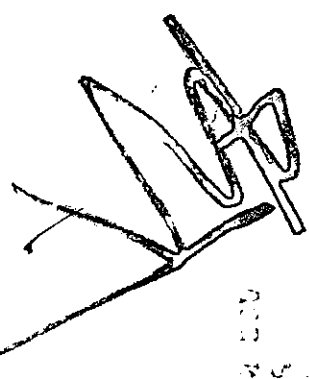
☐ Licensed Plumbing Contractor ☐ Exempt Applicant
Signature-Contractor Seal

U.C.C. Form P-130B

STATE OF CALIFORNIA
COUNTY OF ALBANY
CITY OF ALBANY

PLUMBING
11/10/01
3/1/06
AND 10/1/02

PLUMBING
C.C. 10/1/01
11/10/01
3/1/06
AND 10/1/02



TOWNSHIP OF BRICK

ZONING PERMIT

Date of Issue: October 28, 1997 1997 - 2694

Block 672 Lot 12 Zone B-3, H.D.

Property Address: 705 Route 70

Owner: Metz Enterprises (Phone): (717) 675-8100

Applicant: Michael Metz (Phone): Same

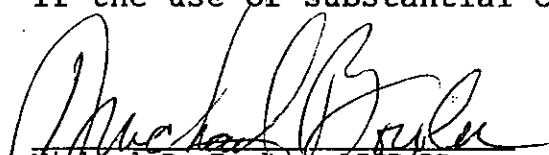
Existing Use: "Wall Street" restaurant.

Proposed Use: "T.G.I. Friday's" restaurant.

Proposed Construction (if any): Interior remodeling and facade alterations.

Conditions: No increase in the number of customer seats.

This permit shall be null, void and of no effect if any of the facts contained in the application upon the basis of which this permit was granted are false or untrue in any material respect. This permit shall expire one (1) year after the date of issuance if the use or substantial construction has not been commenced.


Michael P. Fowler, AICP/PP
Municipal Planner


Sean Kinnevy
Zoning Officer

CERTIFICATE OF COMPLIANCE

BLOCK 672 LOT 12 SITE ADDRESS 1100 E. 1st St. #10
TYPE OF SITE Commercial TYPE OF BUSINESS Restaurant
Residential/Commercial ☒
APPLICANT Donna Pabo PHONE NUMBER 717 671-5137
APPLICANT ADDRESS 2 Woodland Dr. CITY & STATE PA 19104
CASE # _____ NAME OF BUSINESS TRIF

INCLUSIONARY DEVELOPMENT

☐ Affordable Fee Required _____ Date _____
Down Payment _____ Date _____
Balance _____ Date _____
Pd. in Full _____ Date _____
☐ Market Rate No Fee Required

MANDATORY DEVELOPER FEES

☐ Residential is .005%

☒ Commercial is .01%

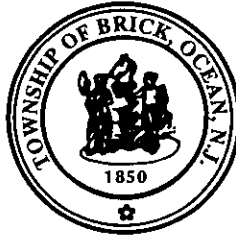
Estimated Assessment: 11,150.00 (11,150.00) Date 10-21-07
Required Deposit on Estimate \$ 347.50 Date 10-21-07
Check # 1411 Receipt # 2117
Actual Assessment: _____ Date _____
Actual Required Fee: \$ _____
Minus Deposit of Estimate \$ _____
Balance Due \$ _____
Amount Paid in Full \$ _____ Date _____
Check # _____ Receipt # _____

I hereby certify that the above applicant has complied with all rules and regulations of the Office of Affordable Housing and has paid all required fees and charges.

Carol A. Wolfe
Affordable Housing Administrator

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:

Michael A. Thulen, President
Stephen C. Acropolis
Martin J. Anton
Victor Cantillo
Helen Fayad
Lee Hartman
Mary Lou Powner

Office of Affordable Housing
Carol A. Wolfe
Affordable Housing Administrator
(908) 262-1048

CASE # _____

APPROVAL DATE: _____
(Planning Board/BOA)

DATE: 10-21-97

TO: Frederick R. Millman, CTA
Tax Assessor

FROM: Carol A. Wolfe
Affordable Housing Administrator

RE: BLOCK 172 LOT 172 SITE ADDRESS 703 S. A. 70

TYPE OF SITE Commercial TYPE OF BUSINESS TRIF
(Residential/Commercial)

APPLICANT B. Stein Pub. CITY & STATE Dallas, Pa.

☒ Please review the attached application for an **estimated** assessed value for the proposed construction.

The **estimated** assessed value for the construction at the above referenced site is:

\$ _____

Frederick R. Millman, CTA, Tax Assessor

Date

☐ Please review the attached application for a final assessed value for the construction at the above referenced site:

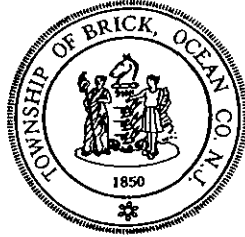
\$ _____

Frederick R. Millman, CTA, Tax Assessor

Date

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

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Michael A. Thulen

Office of Affordable Housing
Carol A. Wolfe
Affordable Housing Administrator
(732) 262-1048
FAX (732) 262-8954
<http://gbshost.com/brick>

October 29, 1997

Brick Town Pubs
2 Woodland Drive
Dallas, PA 18612

RE: Mandatory Development Fee
Block 672 Lot 12; 705 Route 70

To Whom it May Concern:

The Township of Brick has enacted Ordinance 354-2C-93 in conjunction with our Fair Share Plan, which was certified by the New Jersey Council on Affordable Housing on February 3, 1993.

This Ordinance requires that commercial development applicants pay a fee in the amount of one percent of the assessed value per project. The municipal Tax Assessor has estimated the value of the work to be completed under the construction permit application received on October 28, 1997, for the above block and lot at \$169,500.00, resulting in an estimated fee of \$1,695.00.

Therefore, it is required that one half of the estimated fee (\$847.50) be submitted in the form of a check payable to the Township of Brick for deposit into the Affordable Housing Trust Fund. The balance is to be collected prior to issuance of the Certificate of Occupancy.

May I suggest that you contact this office approximately two weeks prior to your request for a C.O. to allow adequate time for the Assessor to conduct a final evaluation of the site.

If you have any questions, please contact me.

Sincerely,

Carol A. Wolfe
Affordable Housing Administrator

CAW/da

TOWNSHIP OF BRICK
OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723

COPY



Joseph C. Scarpelli, Mayor

Township Council:

Mary Lou Powner, President
Stephen C. Acropolis
Victor Cantillo
Helen Fayad
Lee Hartman
Thomas G. Maiorino
Michael A. Thulen

Department of Engineering

Municipal Engineer
(908) 262-1038
Fax: (908) 920-4850

DATE:

10/28/97

Municipal Engineer
401 Chambers Bridge Road
Brick NJ 08723

RE: Block: 692 Lot: 12

Dear Sir;

I, MICHAEL J MOTE
(Name)

of

BRICKTON P&S INC
2 WOODLAND DR
DALLAS TX 75212
(Address)

request to be exempted from the plot plan requirement as outlined in the Brick Land Use Book, Chapter 190.31, part B. The property (please circle one) is / is not located in a flood zone.

Respectfully yours

[Signature]
Applicant's signature

717-674-8737
Phone #

1. Submit survey showing location of addition with proposed dimensions, grading. If driveway is being added, show type, width and length.
2. Proof that the property is not located in a Flood Hazard Area.

NOTE: Any excavations to be removed from the Township requires a mining permit.

OFFICE USE

Approved ☒

DATE:

10/29/97

BY:

[Signature]

Rejected

DATE:

BY:

REMARKS:

COPY

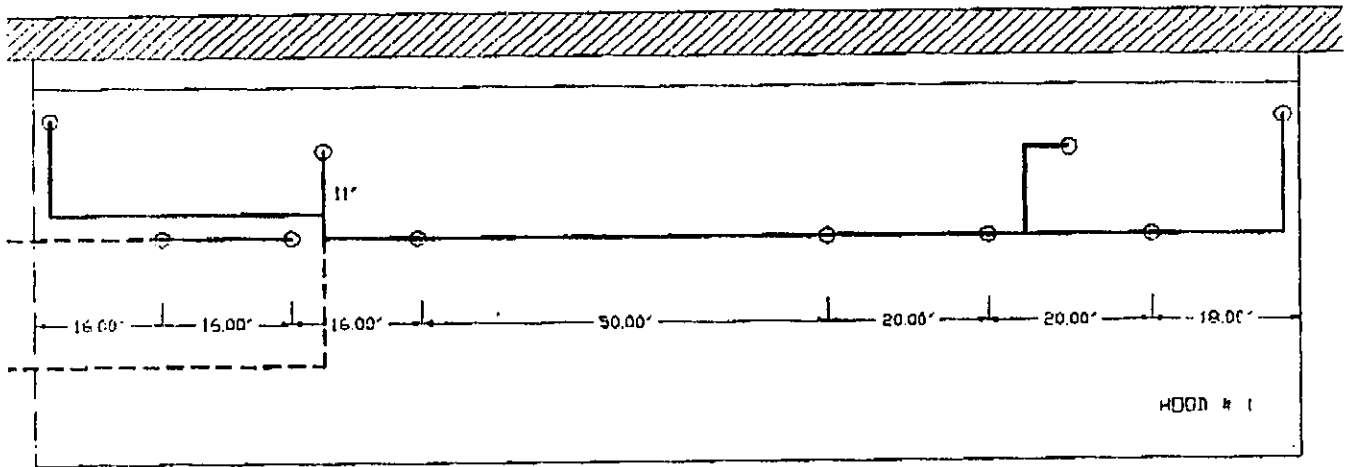
190-31. Plot plan (Added 12-28-80 by Ord. No. 354-2P-80;
amended 6-12-84 by Ord. NO. 354-2XXX-84)

A. Except where approval has been obtained after application under Part 3 or 4 of this chapter, no principal building or addition to a principal building shall be constructed in the Township of Brick except after approval by the Township Engineer of a plot plan to be submitted in accordance with the following specifications.

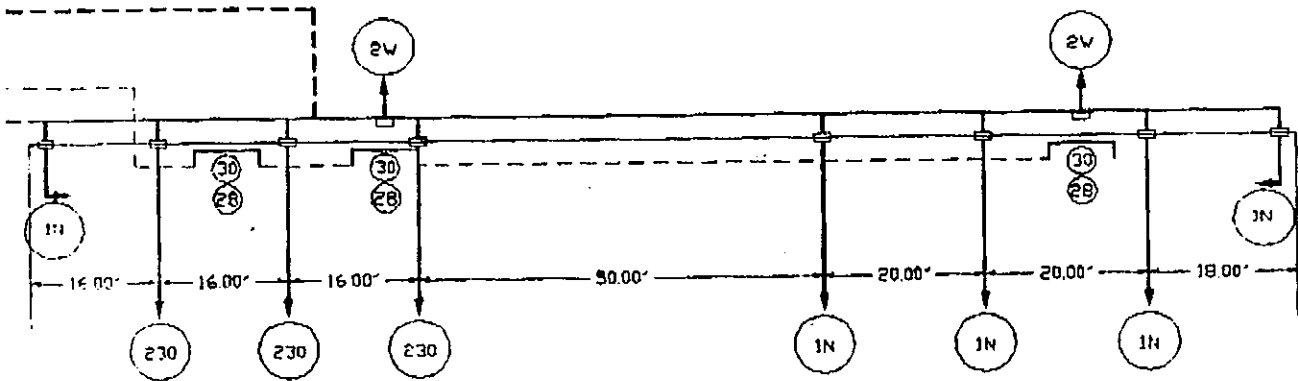
- (1) Such plot plan shall be a survey of the lot in question showing the existing topography of the lot and the proposed location and elevation of the building and/or addition and the proposed grading. Existing topography and proposed grading shall at a minimum, consist of elevations at the property corners and the corners of the proposed building and/or addition. In the event that there is more than a two-foot difference in lot elevations, contours at one-foot intervals shall be shown. The existing topography of the lots immediately adjacent to the lot in question and the road fronting such lot shall also be indicated on the plot plan.
- (2) Such plot plan shall include the following additional information:
 - (a) The width and type of pavement on the road in front of the proposed building and/or addition.
 - (b) The proposed method of drainage from the property in question.
 - (c) The proposed garage and first floor elevations.
- (3) Plot plans must be prepared by a licensed engineer or land surveyor and shall bear his signature and seal. Surveys and topographical information certified to National Geodetic Vertical Datum must be prepared by a licensed land surveyor and shall bear his signature and seal.
- (4) Building or additions in a flood hazard area shall be in compliance with the National Flood Insurance Program (NFIP) as regulated by Federal Emergency Management Agency (FEMA).

B. Exemption from the plot plan requirement for an addition is subject to the approval of the Township Engineer, said exemption to be contingent upon:

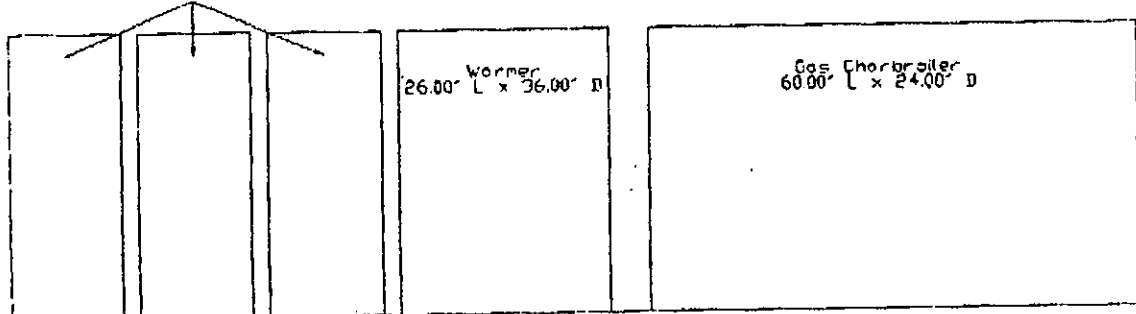
- (1) Proof that the subject addition is not in a flood hazard area.
- (2) A survey locating the existing dwelling.
- (3) a site inspection by a Brick Township Engineering Inspector to verify that the proposed addition will not create a drainage problem.

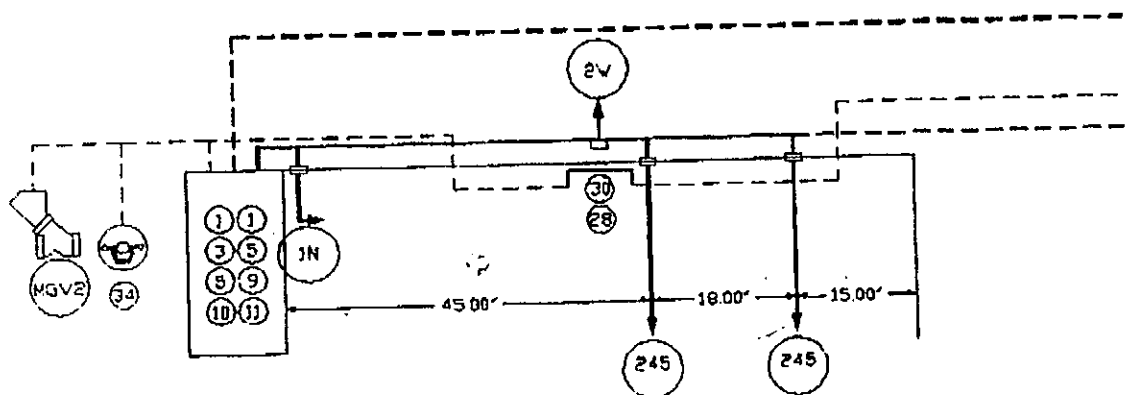
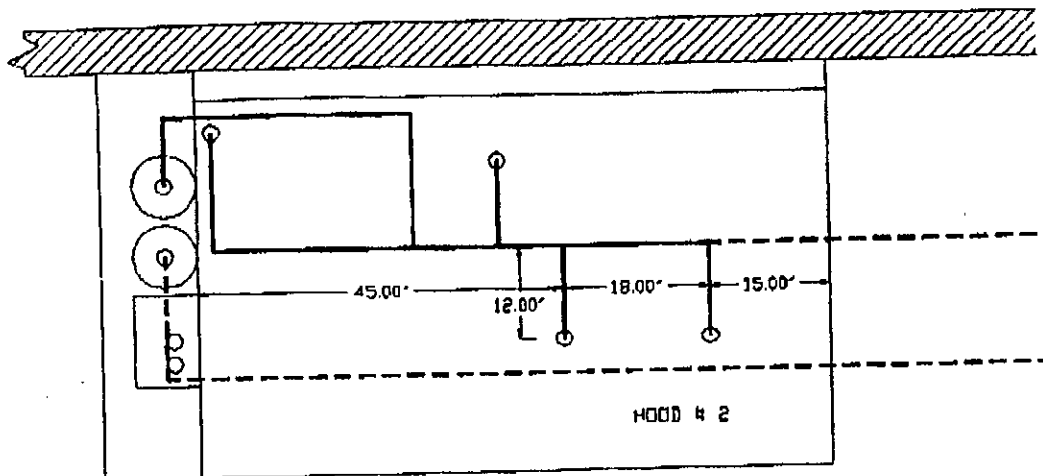


EW



3 - Fryers w/ Drip Board
14.00' L x 21.00' D Each
High Proximity





Chesometer
36.00" L

Pizza Oven

Range-Med
36.00" L x 26.00" D
High Proximity

System Size: ANSUL-3.0/3.0 Tank System - Total System FP = 22.00

Hood # 1 13' 0" Long x 54" Wide x 24" High
Duct # 1 Size: 10" x 14"
Duct # 2 Size: 10" x 14"
Hood # 2 6' 6" Long x 54" Wide x 24" High
Duct # 1 Size: 10" x 14"

NOTES

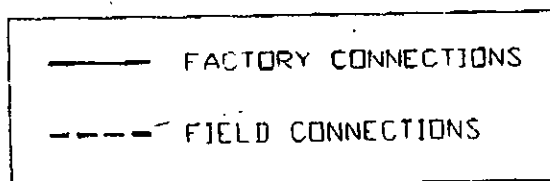
- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS

LEGEND - FIRE CABINET ANSUL SYSTEM

- | | |
|------|------------------------------------|
| 1 | 3 GALLON TANK ASSEMBLY |
| 2 | 1.5 GALLON TANK ASSEMBLY |
| 3 | DEM AUTOMAN BRACKET |
| 4 | REGULATOR ACTUATOR AND 3 GAL. TANK |
| 5 | ANSULEX LIQUID AGENT (3 GAL.) |
| 6 | ANSULEX LIQUID AGENT (1.5 GAL.) |
| 7 | CARTRIDGE (101-10) |
| 8 | CARTRIDGE (101-20) |
| 9 | CARTRIDGE (101-30) |
| 10 | TEST LINK |
| 11 | DOUBLE MICROSWITCH |
| 2W | DUCT NOZZLE (56928) |
| 1W | NOZZLE ASSEMBLY (56927) |
| 1WS | NOZZLE ASSEMBLY (415567) |
| 1F | NOZZLE ASSEMBLY (418555) |
| 1N | NOZZLE ASSEMBLY (56930) |
| 1NS | NOZZLE ASSEMBLY (415566) |
| 1/2N | NOZZLE ASSEMBLY (56929) |
| 3N | NOZZLE ASSEMBLY (76782) |
| 245 | NOZZLE ASSEMBLY (418118) |
| 230 | NOZZLE ASSEMBLY (418117) |
| 2120 | NOZZLE ASSEMBLY (418121) |
| 290 | NOZZLE ASSEMBLY (418120) |
| 260 | NOZZLE ASSEMBLY (418119) |
| 28 | DETECTOR BRACKET |
| 29 | LOW TEMP FUSIBLE LINK |
| 30 | HIGH TEMP FUSIBLE LINK |
| MGV | MECHANICAL GAS VALVE |
| EGV | ELECTRICAL GAS VALVE |
| 34 | REMOTE MANUAL PULL STATION |



BRICK TOWNSHIP

Plan Review	Class	Date	By
-------------	-------	------	----

Zoning			
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Plumbing			
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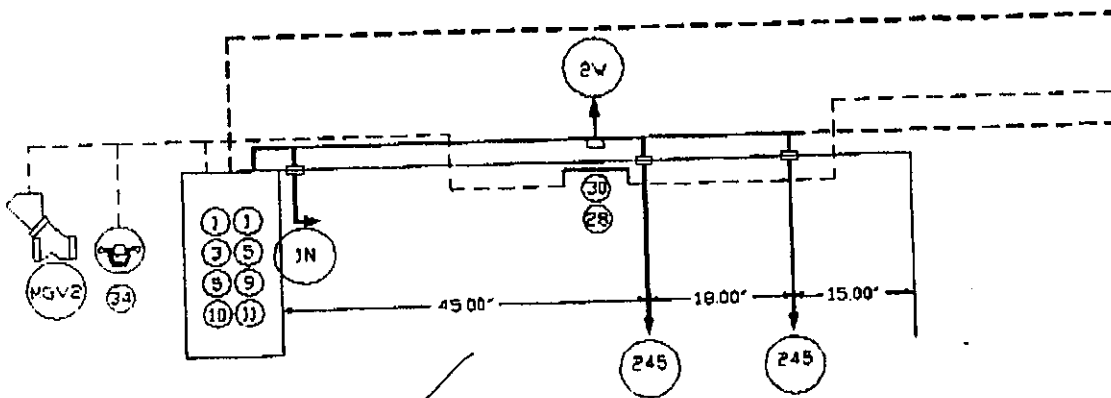
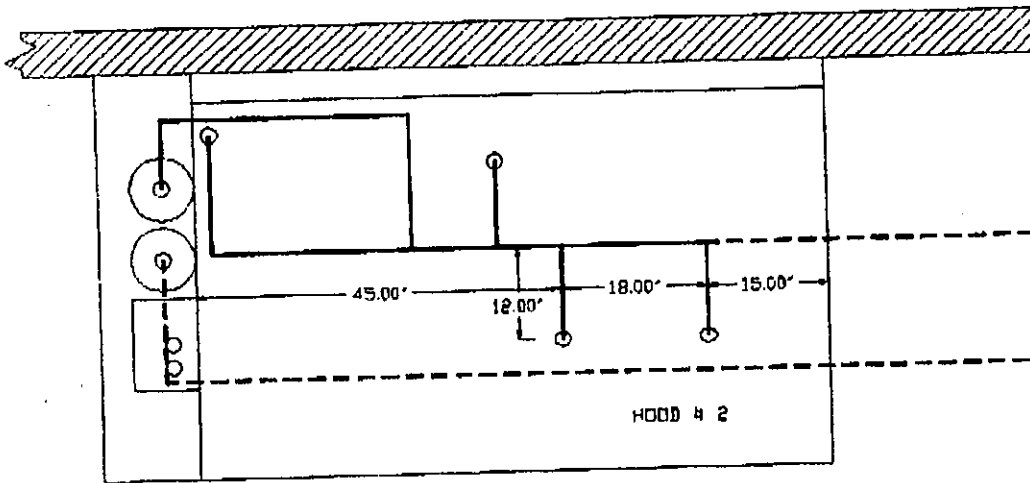
Building			
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Fire			
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Energy			
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Electrical			
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2/4/98

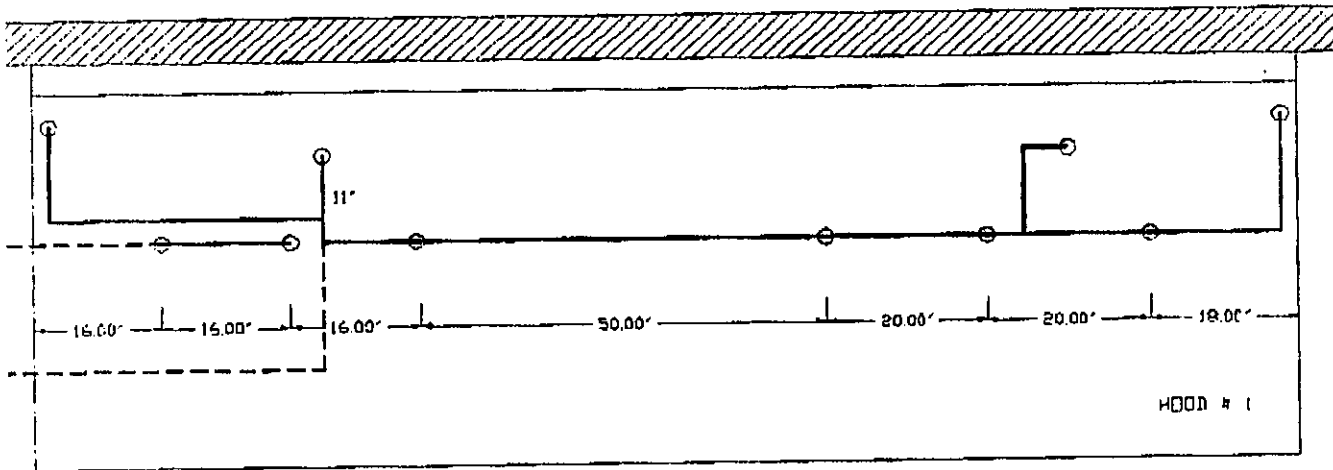


Cheesemelter
36.00" L

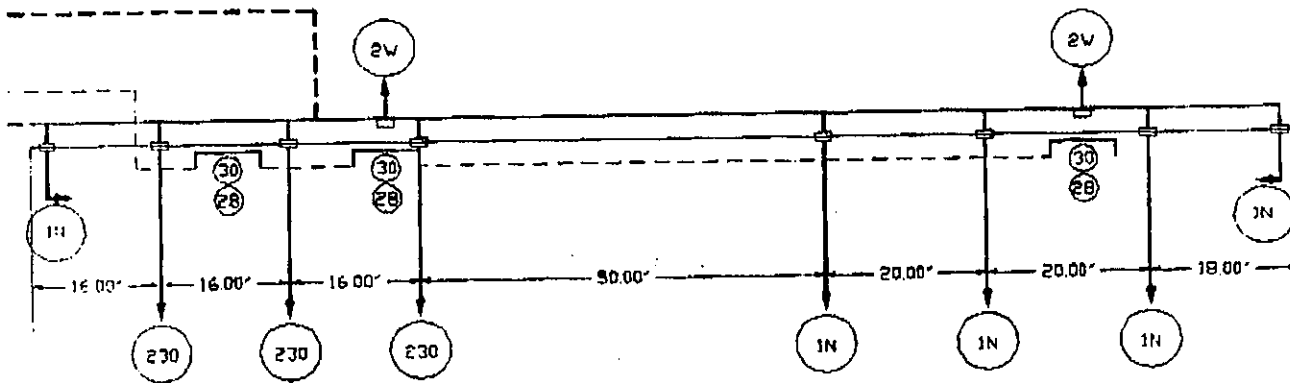
Pizza Oven

Range-Med
36.00" L x 26.00" D
High Proximity

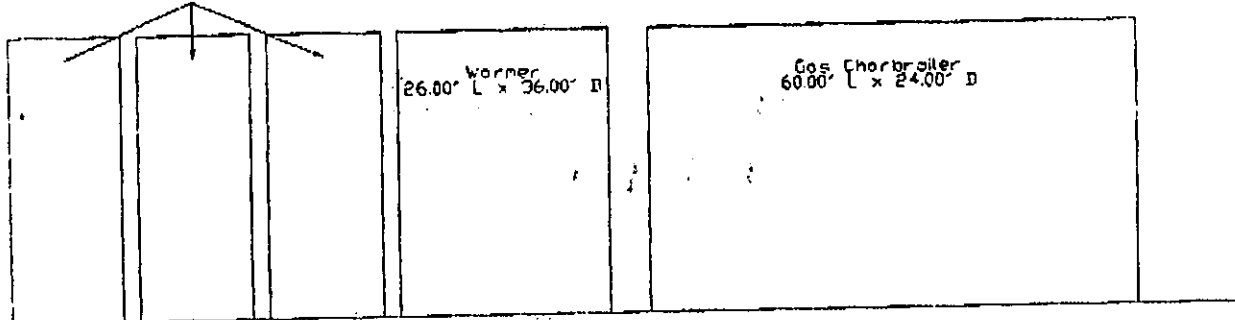
09-3186647



EW



3 - Fryers w/ Drip Board
14.00' L x 21.00' D Each
High Proximity



System Size: ANSUL-3.0/3.0 Tank System - Total System FP = 22.00

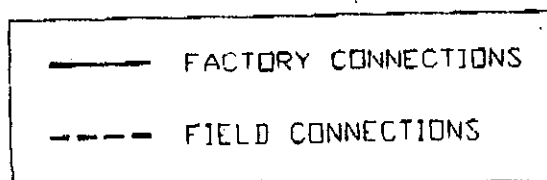
Hood # 1 13' 0" Long x 54" Wide x 24" High
Duct # 1 Size: 10" x 14"
Duct # 2 Size: 10" x 14"
Hood # 2 6' 6" Long x 54" Wide x 24" High
Duct # 1 Size: 10" x 14"

NOTES

- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS
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LEGEND - FIRE CABINET ANSUL SYSTEM

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- 2 1.5 GALLON TANK ASSEMBLY
- 3 DEM AUTOMAN BRACKET
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- 1F NOZZLE ASSEMBLY (418555)
- 1N NOZZLE ASSEMBLY (56930)
- 1NS NOZZLE ASSEMBLY (415566)
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- 3N NOZZLE ASSEMBLY (76782)
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- 28 DETECTOR BRACKET
- 29 LOW TEMP FUSIBLE LINK
- 30 HIGH TEMP FUSIBLE LINK
- MGV MECHANICAL GAS VALVE
- EGV ELECTRICAL GAS VALVE
- 34 REMOTE MANUAL PULL STATION



Oxygen Supply Co., Inc.

1368 Route 9
Lakewood, New Jersey 08701
Phone (908) 370-2330
Fax (908) 370-8521

FAX COVER SHEET

TO:

Mary Leekneel

FROM:

Oxygen Supply Co.

DATE:

2/25/98

TIME:

1:18

MESSAGE:

As Requested from
T.G.I.F.

TOTAL PAGES INCLUDING COVER SHEET

2

OXYGEN SUPPLY CO., Inc.

Fire Protection Division

1368 RIVER AVE. (Rt. 9) • LAKEWOOD, NJ 08701
(908) 370-2330 FAX (908) 370-8521



TO: T.G.T. Fridays
709 Rt 70

Rick

CUSTOMER ORDER NO.	INVOICE NO.	FOR NEW EQUIPMENT ONLY: Customer's initials verify that he or she has received operating instructions.
13186	2/20/98	
TEAMS: <i>Ch</i>	DATE	
24% WILL BE CHARGED PER MONTH ON PAST DUE ACCOUNTS	THERE WILL BE A MINIMUM 20% HANDLING CHARGE ON ALL RETURNED MERCHANDISE.	

SHIP	NET	ARTICLES DELIVERED OR SERVICES RENDERED	SIZE	SERV.	TEST	RECH.	PRICE	TOTAL
		DRY CHEMICAL ☐ REG. ☐ ABC ☐ PK ☐ PRESS. ☐ CART. NITROGEN NONFLAMMABLE GAS UN1008						
		DRY CHEMICAL ☐ REG. ☐ ABC ☐ PK ☐ PRESS. ☐ CART. NITROGEN NONFLAMMABLE GAS UN1008						
		DRY CHEMICAL ☐ REG. ☐ ABC ☐ PK ☐ PRESS. ☐ CART. NITROGEN NONFLAMMABLE GAS UN1008						
		DRY CHEMICAL ☐ REG. ☐ ABC ☐ PK ☐ PRESS. ☐ CART. NITROGEN NONFLAMMABLE GAS UN1008						
		DRY CHEMICAL ☐ REG. ☐ ABC ☐ PK ☐ PRESS. ☐ CART. CARBON DIOXIDE NONFLAMMABLE GAS UN1003						
		☐ BREATHING AIR CYLS ☐ SCUBA COMPRESSED AIR NONFLAMMABLE GAS UN1002						
		☐ WATER ☐ ANTI-FREEZE ☐ LOW DRAIN ☐ PRESS. ☐ CTRG NITROGEN NONFLAMMABLE GAS UN1008						
		CARBON DIOXIDE ☐ FIRE EXTINGUISHER ☐ COMM. CYL. CARBON DIOXIDE NONFLAMMABLE GAS UN1003						
		CARBON DIOXIDE ☐ FIRE EXTINGUISHER ☐ COMM. CYL. CARBON DIOXIDE NONFLAMMABLE GAS UN1003						
		HALON TYPE NITROGEN NONFLAMMABLE GAS UN1008						
		OXYGEN U.S.F. Lb # OXYGEN NONFLAMMABLE GAS UN1002						
		Replaced leading 90° elbow						
		Replaced hose for fire hose						

SYSTEM TYPE: *Boiler* SIZE: *Boiler* RECOMMENDATIONS OR REPAIRS: *Boiler*

APPLIANCES: ☐ GAS ☐ ELECTRIC ☐ MANUAL PULL ☐ FLAT GRILL ☐ DEEP FRYER ☐ BROILER ☐ STOVE

OTHER: *Cher Boiler*

24% WILL BE CHARGED PER MONTH ON PAST DUE ACCOUNTS

DATE: *2/20/98*

IN CASE OF CHEMICAL EMERGENCY WHILE IN TRANSIT CALL CHEMICAL MONITORING 1-800-457-4280

- 1. CHECK PRESSURE GAUGE, PIPING & CONDUT. NOZZLE POSITIONING, EXHAUST FAN
- 2. TEST SYSTEM OPERATION FROM TERMINAL LINK, MANUAL AND REMOTE PULL OPERATION
- 3. THERE ARE NO VISIBLE SIGNS THAT SYSTEM HAS BEEN FIRED OR TAMPERED WITH
- 4. PERSONNEL HAS BEEN INSTRUCTED ON MANUAL OPERATION OF SYSTEM
- 5. INSPECTION AND SERVICE TAG ON CYLINDER, REMOTE MANUAL PULL
- 6. CERTIFICATE OF INSPECTION GIVEN TO CUSTOMER UPON RECEIPT OF PAYMENT
- 7. A COPY OF CERTIFICATE TO BE MAILED TO FIRE INSPECTOR JURISDICTION:

RECEIVED BY: *Cher* REPRESENTATIVE

RECEIVED BY: *Cher* SERVICEMAN'S SIGNATURE

Record of Completion

Name of Protected Property: TGI FridaysAddress: 705 Rt 70 Brick, NJ

Rep. of Protected Prop. (name/phone): _____

Authority Having Jurisdiction: _____

Address/Phone Number: _____

1. Type(s) of System or Service

____ NFPA 72, Chapter 3 — Local

If alarm is transmitted to location(s) off premises, list where received: _____

____ NFPA 72, Chapter 3 — Emergency Voice/Alarm Service

Quantity of voice/alarm channels: _____ Single: _____ Multiple: _____

Quantity of speakers installed: _____ Quantity of speaker zones: _____

Quantity of telephones or telephone jacks included in system: _____

____ NFPA 72, Chapter 4 — Auxiliary

Indicate type of connection:

Local energy: _____ Shunt: _____ Parallel telephone: _____

Location and telephone number for receipt of signals: _____

____ NFPA 72, Chapter 4 — Remote Station

Alarm: _____

Supervisory: _____

____ NFPA 72, Chapter 4 — Proprietary

If alarms are retransmitted to public fire service communications center or others, indicate location and telephone number of the organization receiving alarm: _____

Indicate how alarm is retransmitted: _____

☒ NFPA 72, Chapter 4 — Central Station

The Prime Contractor: _____

ADT Security Services

Central Station Location: _____

CLARKSTON, GA.

Means of transmission of signals from the protected premises to the central station:

____ McCulloh _____ Multiplex _____ One-Way Radio

☒ Digital Alarm Communicator _____ Two-Way Radio _____ Others

Means of transmission of alarms to the public fire service communications center:

(a) _____

(b) _____

System Location: _____

	Organization Name/Phone	Representative Name/Phone
Installer	<u>ADT Security Services</u>	_____
Supplier	<u>" "</u>	_____
Service Organization	<u>" "</u>	_____

Location of Record (As-Built) Drawings: _____

Location of Owners Manuals: _____

Location of Test Reports: _____

A contract, dated _____, for test and inspection in accordance with NFPA standard(s) No(s). _____,

dated _____, is in effect.

Figure 1-7.2.1 Record of Completion.

2. Record of System Installation

(Fill out after installation is complete and wiring checked for opens, shorts, ground faults, and improper branching, but prior to conducting operational acceptance tests.)

This system has been installed in accordance with the NFPA standards as shown below, was inspected by _____ on _____, includes the devices shown below, and has been in service since _____.

☒ NFPA 72, Chapters 1 3 4 5 6 7 (circle all that apply)

☒ NFPA 70, National Electrical Code, Article 760

☒ Manufacturer's Instructions

Other (specify): _____

Signed: [Signature]

Date: 2-24-98

Organization: ADT

3. Record of System Operation

All operational features and functions of this system were tested by _____ on _____, and found to be operating properly in accordance with the requirements of:

☒ NFPA 72, Chapters 1 3 4 5 6 7 (circle all that apply)

☒ NFPA 70, National Electrical Code, Article 760

☒ Manufacturer's Instructions

Other (specify): _____

Signed: [Signature]

Date: 2-24-98

Organization: ADT

4. Alarm-Initiating Devices and Circuits (use blanks to indicate quantity of devices)

MANUAL

(a) _____ Manual Stations ☒ Noncoded, Activating _____ Transmitters _____ Coded

(b) _____ Combination Manual Fire Alarm and Guard's Tour Coded Stations

AUTOMATIC

Coverage: Complete: _____ Partial: _____

(a) _____ Smoke Detectors _____ Ion ☒ Photo

(b) _____ Duct Detectors _____ Ion ☒ Photo

(c) _____ Heat Detectors ☒ FT _____ RR _____ FT/RR _____ RC

(d) _____ Sprinkler Waterflow Switches: _____ Transmitters _____ Noncoded, Activating _____ Coded

(e) 1 Other (list): Connection to Ansul System

5. Supervisory Signal-Initiating Devices and Circuits (use blanks to indicate quantity of devices)

GUARD'S TOUR

(a) _____ Coded Stations

(b) _____ Noncoded Stations, Activating _____ Transmitters

(c) _____ Compulsory Guard Tour System Comprised of _____ Transmitter Stations and _____ Intermediate Stations

NOTE: Combination devices recorded under 4(b) and 5(a).

SPRINKLER SYSTEM

(a) _____ Coded Valve Supervisory Signaling Attachments

Valve Supervisory Switches, Activating _____ Transmitters

(b) _____ Building Temperature Points

(c) _____ Site Water Temperature Points

(d) _____ Site Water Supply Level Points

Electric Fire Pump:

(e) _____ Fire Pump Power

(f) _____ Fire Pump Running

(g) _____ Phase Reversal

Engine-Driven Fire Pump:

(h) _____ Selector in Auto Position

(i) _____ Engine or Control Panel Trouble

(j) _____ Fire Pump Running

Engine-Driven Generator:

(k) _____ Selector in Auto Position

(l) _____ Control Panel Trouble

(m) _____ Transfer Switches

(n) _____ Engine Running

Figure 1-7.2.1 Record of Completion (continued).

Other Supervisory Function(s) (specify): _____

6. Alarm Notification Appliances and Circuits

Quantity of indicating appliance circuits connected to the system: _____

Types and quantities of alarm indicating appliances installed:

- (a) _____ Bells _____ Inch
 (b) _____ Speakers
 (c) _____ Horns
 (d) _____ Chimes
 (e) _____ Other: _____
 (f) _____ Visual Signals Type: 24vdc Strobes
 _____ with audible _____ w/o audible
 (g) _____ Local Annunciator

7. Signaling Line Circuits

Quantity and Style (see NFPA 72, Table 3-6) of signaling line circuits connected to system:

Quantity: _____ Style: _____

8. System Power Supplies

- (a) Primary (Main): Nominal Voltage: 110 VAC Current Rating: _____
 Overcurrent Protection: Type: Circuit Breaker Current Rating: _____
 Location: _____
 (b) Secondary (Standby):
 _____ Storage Battery: Amp-Hour Rating _____
 _____ Calculated capacity to drive system, in hours: _____ 24 _____ 60
 _____ Engine-driven generator dedicated to fire alarm system:
 Location of fuel storage: _____
 (c) Emergency or Standby System used as backup to Primary Power Supply, instead of using a Secondary Power Supply:
 _____ Emergency System described in NFPA 70, Article 700
 _____ Legally Required Standby System described in NFPA 70, Article 701
 _____ Optional Standby System described in NFPA 70, Article 702, which also meets the performance requirements of Article 700 or 701

9. System Software

- (a) Operating System Software Revision Level(s): _____
 (b) Application Software Revision Level(s): _____
 (c) Revision Completed by: _____ (name) (firm)

10. Comments:

 (signed) for Central Station or Alarm Service Company (title) (date)
 Frequency of routine tests and inspections, if other than in accordance with the referenced NFPA standard(s):
Bi-Monthly Inspections

System deviations from the referenced NFPA standard(s) are: _____

 (signed) for Central Station or Alarm Service Company (title) (date)
 Upon completion of the system(s) satisfactory test(s) witnessed (if required by the authority having jurisdiction):

 (signed) representative of the authority having jurisdiction (title) (date)

Figure 1-7.2.1 Record of Completion (continued).

CERTIFICATE of INSPECTION

NO 004171

THIS IS TO CERTIFY THAT THE FIRE EXTINGUISHING SYSTEM PROTECTING:

T.G.I. FRIDAYS 709 RT. 70 BRICK, NJ

NAME ADDRESS

WAS INSPECTED IN 2/98 AND LEFT IN OPERATING CONDITION.
DATE

THIS CERTIFICATE EXPIRES IN 8/98
DATE

Oxygen Supply Co., Inc.

1368 Route 9

Lakewood, N.J. 08701

(732) 370-2330

by:

Thomas McElroy
Thomas McElroy, Pres.

WHITE - CUSTOMER'S COPY

CANARY - INSURANCE COPY
PINK - FIRE INSPECTION COPY

James T. Smith Engineering Company

426 Penn Avenue, Drexel Hill, PA 19026-1498
610-623-2550 - voice 610-623-7559 - fax
jsmithengr@aol.com - email

B. 672
L. 12

February 25, 1998

Department of Building Inspection
Township of Brick, NJ
401 Chambers Bridge Road
Brick, NJ 08723

Attention: Frank Mizer - Building Inspector
732-262-8954 - fax

RE: Alterations/Addition
T.G.I. Friday's
Lakewood, Brick Township, NJ

SUBJECT: Permit #3486-97
Steel Bar Joist Review

Dear Mr. Mizer:

We have reviewed the capacity of the steel bar joists as requested by Thomas H. Di'Giorgio of DK Architects/Planners, Inc. for the purpose of determining the allowable loads and if the loads imposed by the electrical conduit and piping would cause an overstress condition.

It is our opinion after reviewing the loadings, the size and spans of the bar joists that the bar joists/roof structure is capable of supporting the loads being imposed.

We were informed that this was an existing building undergoing interior renovations. During these interior renovations piping and conduit was suspended from the existing bar joists, some small air handling units were added to the roof.

We were informed that the drawings of the original building construction were not available for our review. Rich Babauskas, of Mr. Di'Giorgio's office called from Lakewood, NJ (732-262-0937) and over the phone, along with sketches faxed to me, described the bar joists as being as follows.

Bar joists spanning 44 ft. 2 in., center to center of supporting walls, were 30 in. deep, spaced at 3 ft. 0 in. on center, top and bottom chord $1 \frac{3}{4} \times 1 \frac{3}{4} \times 3/16$, web member bent bar $\frac{3}{4}$ in. diameter. The first of the 30 in. deep short span bar joists, was produced in 1971 and is listed in the Steel Joist Institute Standard Load Tables, May 10, 1971, as a J Series Joist. We have assumed this joist to be a 30J7 spaced at 3 ft. 0 in. in center.

J.T.S. 11/11/95

The other joists, spanning 27 ft. 8 in. perpendicular to the 44 ft. 2 in. span, were 18 in. deep spaced at 5 ft. 0 in. centers, with a 2 x 2 x 3/16 in. angles top chord, with 2 - 3/4 in. diameter rods for the bottom chord, with a 5/8 in. web. In areas where there was roofing mounting equipment the joist spacing was reduced to 2 ft. 2 in. on center.

The description of this joist and assuming that this was a building addition constructed after 1977 was assumed to be a "H" Series Joist, 18H8's.

It is our opinion that the 30 in. deep joist spaced at 5 ft. 0 in. centers has a reserve capacity of 36 psf, far greater than that that could be imposed by standard piping or electrical work. They could also support a concentrated load along with the uniform live load of over 2,000 lbs.

The 18 in. deep joist spaced at 5 ft. centers has a reserve capacity of 38 psf, and the 18 in. joists spaced at 2 ft. 2 in. has a reserve capacity of 140 psf.

We have based our design loads on the following.

Roof live loads are the values that act vertically upon the projected area. It is generally considered necessary to provide for occasional loading due to presence of workers and materials during construction or repair operations.

The roof live load (L_r) when the roof slope is less than 4 in. vertical to 12 in. horizontal is 20 psf.

The snow loads (S) have been based on the ground snow load of 20 psf., exposure factor of 0.7, and an importance factor of 1.0 allowance for drifting and sliding loads. For roofs with slopes less than 9 in. vertical to 12 in. horizontal the snow load is 14 psf.

Snow loads include allowance for drifting and sliding loads as the information we have reviewed indicates there are adjacent walls and/or higher roofs adjacent to the area under consideration.

Ponding has not been considered in this design as we have been informed that the roof drainage system complies with the BOCA National Plumbing Code and that the roof drainage overflow system is adequately maintained to prevent ponding. We have been advised there is no ponding on the present roof.

The Dead Loads have been estimated based on the assumptions noted in this report. Please review, and notify us if any of these assumptions are incorrect or if any changes have been made that would increase the dead load allowance.

James T. Smith Engineering Company

Page 2 of 3

JAMES T. SMITH, P.E.
Professional Engineer
State of New Jersey
License No. 16249

c.c. Tom Di'Giorgio

JTS:mlm
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25-Feb-98 1:42 PM

The Dead Loads for the roof have been estimated as follows:

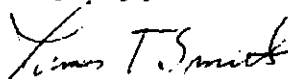
Roof Membrane System	4 psf
Construction	4 psf
Ceiling Finish	4 psf
Miscellaneous - Piping & Electrical	3 psf
Total Roof Dead Load	15 psf

Based on the information we received from field measurements from Mr. Di'Giorgio's representative, it is our opinion that this roof structure can safely support the loads required by the BOCA/New Jersey State Building Code and still have a reserve capacity more than enough to accept additional piping and roof mounted equipment loads of less than 500 lbs. without any problem.

We are faxing you unsealed copies of our computations and letters. A sealed copy, with the embossed seal of Professional Engineer in the State of New Jersey, will follow in the regular mail.

If you have any questions or if I can be of any further service to you in this matter, please do not hesitate to call.

Very truly yours,



James T. Smith, P.E.
Professional Engineer
State of New Jersey
License No. 16249

c.c. Tom Di'Giorgio

JTS:mim
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File Name Design Steel Joist
ON-GOING CORPUTATION

JAMES T. SMITH ENGINEERING CO.

Printed 2-23-98
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Project Title: IGF Fridays Restaurant

Location: Lakewood Brick Twp. N.

Client: DK Architects

Project No: 037-047

Disk Name:	057-D1George
25-Feb-98	Initial Effort

25-Feb-98 Latest Revision

Task: Joint Design / Review With 2 Concentrated Loads & Drill Loads

Disk Name: 053 JOI Steel Joist

Designer: Jim Smith

**Boon National Building Code
Steel Joist Institute Specifications
Design & Review Joist Without Ca**

$$X = \begin{pmatrix} -b \pm (b^2 - 4ac)^{1/2} \\ 2a \end{pmatrix}$$

John T. Miller

[illegible]

610-623-2554

426 Penn Ave Drexel Hill PA 19026-1413

Steel Bar Joist Design/Review PAGE 1 of 3

File Name: Design Steel Joist
JONES ENGINEERING

JAMES T. SMITH ENGINEERING CO.

Printed 2/25/98
1:23 PM

Project Title: TGFF Friday's Restaurant
Location: Lakewood Brick Top NJ
Client: DK Architects
Project No: 0374047
Disk Name: 0374-DKComp
25-Feb-98 Initial Effort
25-Feb-98 Latest Revision

Task: Joist Design / Review With 2 Concentrated Loads & Jolt Loads
Disk Name: 053 JOI Steel Joist
Designer: Jim Smith

Boon National Building Code
Steel Joist Institute Specifications
Design & Review Joist Without Ca

$$V = C \quad K = (b + (b + 4a)^{1/3}) / 2a$$

$$X = \quad KX + b + c = 0$$

Location	Mark		Deflection Limitation Live Load	Deflection Limitation Tidal Load	Deflection L+Reserve w L Eqv max Limit plf in in	Deflection L+D+Reserve w D+L Eqv max Limit plf in in	Deflection S+Reserve w D+L Eqv max Limit plf in in	Deflection Reserve Load w L Eqv max plf in in	
Roof	J1	DEFLECTION WITHIN LIMITS	L/ 240 Of the Span	L/ 180 Of the Span	60 1.25 2.21 60 1.25 2.21	119 1.69 2.94 119 1.69 2.94	42 42	109 0.81 109 0.81	
Roof	J2	DEFLECTION WITHIN LIMITS	L/ 240 Of the Span	L/ 180 Of the Span	60 1.25 2.21 60 1.25 2.21	119 1.69 2.94 119 1.69 2.94	42 42	109 0.81 109 0.81	
Roof	J3	DEFLECTION WITHIN LIMITS	L/ 240 Of the Span	L/ 180 Of the Span	106 0.92 1.38 45 0.96 1.38	185 1.19 1.84 17 1.08 1.84	70 30	191 0.60 303 0.84	
Roof	J4	DEFLECTION WITHIN LIMITS	L/ 240 Of the Span	L/ 180 Of the Span					
Location	Joist Rows Type Of Span Size Bdg #	Horizontal Bridging L/R = 300 Herz Bdg L/R = 200 Ding Bdg	Bearing Plate					f 1/8	SF Fp/Fp
Roof									
Roof	J1	3018 3 4 8	Horizontal Bridge	250 2.624 10 8 6 55 3.5 0.27 48.0 2.78 4.6					
Roof	J2	3018 3 4 8	Horizontal Bridge	250 2.624 10 8 6 55 3.5 0.27 48.0 2.78 4.6					
Roof	J3	3018 3 4 8	Horizontal Bridge	250 2.624 10 8 6 55 3.5 0.27 48.0 2.78 4.6					
Roof	J4	18H7 2 26 7	Horizontal Bridge	250 2.565 10 8 6 53 3.5 0.27 48.0 2.78 4.7					
Roof	J5	18H8 0 28 8	Horizontal Bridge	250 1.209 5 8 6 25 3.5 0.19 48.0 1.78 9.9					

James T. Smith Engineering Company

DATE: 2/25/98 15:16:24

610423-2550

436 Penn Ave Dracut Hall PA 19026-1417

Steel Bar Joist Design / Review PAGE 3 of 3

Project Title	TOFF Fridays Restaurant		
Location:	Lakewood Brick Twp NJ		
Client:	DK Architects		
Project No:	037-047	Task:	
Disk Name:	03-DKcorgio	Disk Name:	Joist Design / Review With 2 Concentrated Loads & Drift Loads
25-Feb-98	Initial Effort	Designer:	053 JCI Steel Joist
	Latest Revision		Jim Smith

**Boca National Building Code
Steel Joist Institute Specifications
Design & Review Joist Without Ca**

$$V=0 \quad x = (-b \pm (b^2 - 4ac)^{1/2}) / 2a$$

$$X = ax^2 + bx + c = 0$$

Location	Reaction	Reaction Balance										Reaction Left in pounds per foot of Support	Reaction Right in pounds per foot of Support							
	Left S	Right S	Left L	Right L	Left D	Right D	Left S+D	Right S+D	Left L+D	Right L+D	L-D	S		L	D	T	L	D	TL	
Roof																				
Roof	Blank																			
Roof	11	928	928	1,325	1,325	1,299	1,299	2,226	2,226	2,624	2,624	OK	OK	442	433	875	442	433	875	
Roof	12	928	928	1,325	1,325	1,299	1,299	2,226	2,226	2,624	2,624	OK	OK	442	433	875	442	433	875	
Roof	13	928	928	1,325	1,325	1,299	1,299	2,226	2,226	2,624	2,624	OK	OK	442	433	875	442	433	875	
Roof	14	968	968	1,383	1,383	1,181	1,181	2,150	2,150	2,565	2,565	OK	OK	277	236	513	277	236	513	
Roof	15	420	420	599	599	610	610	1,036	1,036	1,209	1,209	OK	OK	277	282	558	277	282	558	
Location		Reserve Capacity										Max Concentrated Load Without Uniform Live Load		Max Uniform Live Load						
Roof	Blank																			
Roof	11	Reserve Capacity =	109	36	Controlled By Moment															
Roof	12	Reserve Capacity =	109	36	Controlled By Moment															
Roof	13	Reserve Capacity =	109	36	Controlled By Moment															
Roof	14	Reserve Capacity =	191	38	Controlled By Reaction															
Roof	15	Reserve Capacity =	303	140	Controlled By Reaction															
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	14	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Roof	15	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	
Location																				
Roof	11	Dist From LEFT	V=0	V=0	V=0	+M	-M	+M	+M	-M	-M	-M	-M	-M	-M	-M	-M	-M	-M	
Roof	12	LAD	S	S+D	L	D	L+D	S	S+D	L	L+D	L	L+D	L	L+D	L	L+D	L	L+D	
Roof	13	V=0																		

James T. Smith Engineering Company

426 Penn Avenue, Drexel Hill, PA 19026-1498
610-623-2550 - voice 610-623-7559 - fax
jsmithengr@aol.com - email

612 12

February 25, 1998

Department of Building Inspection
Township of Brick, NJ
401 Chambers Bridge Road
Brick, NJ 08723

Attention: Frank Mizer - Building Inspector
732-262-8954 - fax

RE: Alterations/Addition
T.G.I. Friday's
Lakewood, Brick Township, NJ

SUBJECT: Permit #3486-97

Steel Bar Joist Review

Dear Mr. Mizer:

We have reviewed the capacity of the steel bar joists as requested by Thomas H. Di'Giorgio of DK Architects/Planners, Inc. for the purpose of determining the allowable loads and if the loads imposed by the electrical conduit and piping would cause an overstress condition.

It is our opinion after reviewing the loadings, the size and spans of the bar joists that the bar joists/roof structure is capable of supporting the loads being imposed.

We were informed that this was an existing building undergoing interior renovations. During these interior renovations piping and conduit was suspended from the existing bar joists, some small air handling units were added to the roof.

We were informed that the drawings of the original building construction were not available for our review. Rich Babauskas, of Mr. Di'Giorgio's office called from Lakewood, NJ (732-262-0937) and over the phone, along with sketches faxed to me, described the bar joists as being as follows.

Bar joists spanning 44 ft. 2 in., center to center of supporting walls, were 30 in. deep, spaced at 3 ft. 0 in. on center, top and bottom chord $1\frac{3}{4} \times 1\frac{3}{4} \times 3/16$, web member bent bar $\frac{3}{4}$ in. diameter. The first of the 30 in. deep short span bar joists, was produced in 1971 and is listed in the Steel Joist Institute Standard Load Tables, May 10, 1971, as a J Series Joist. We have assumed this joist to be a 30J7 spaced at 3 ft. 0 in. in center.

The other joists, spanning 27 ft. 8 in. perpendicular to the 44 ft. 2 in. span, were 18 in. deep spaced at 5 ft. 0 in. centers, with a 2 x 2 x 3/16 in. angles top chord, with 2 - 3/4 in. diameter rods for the bottom chord, with a 5/8 in. web. In areas where there was roofing mounting equipment the joist spacing was reduced to 2 ft. 2 in. on center.

The description of this joist and assuming that this was a building addition constructed after 1977 was assumed to be a "H" Series Joist, 18H8's.

It is our opinion that the 30 in. deep joist spaced at 5 ft. 0 in. centers has a reserve capacity of 36 psf, far greater than that that could be imposed by standard piping or electrical work. They could also support a concentrated load along with the uniform live load of over 2,000 lbs.

The 18 in. deep joist spaced at 5 ft. centers has a reserve capacity of 38 psf, and the 18 in. joists spaced at 2 ft. 2 in. has a reserve capacity of 140 psf.

We have based our design loads on the following.

Roof live loads are the values that act vertically upon the projected area. It is generally considered necessary to provide for occasional loading due to presence of workers and materials during construction or repair operations.

The roof live load (L_r) when the roof slope is less than 4 in. vertical to 12 in. horizontal is 20 psf.

The snow loads (S) have been based on the ground snow load of 20 psf., exposure factor of 0.7, and an importance factor of 1.0 allowance for drifting and sliding loads. For roofs with slopes less than 9 in. vertical to 12 in. horizontal the snow load is 14 psf.

Snow loads include allowance for drifting and sliding loads as the information we have reviewed indicates there are adjacent walls and/or higher roofs adjacent to the area under consideration.

Ponding has not been considered in this design as we have been informed that the roof drainage system complies with the BOCA National Plumbing Code and that the roof drainage overflow system is adequately maintained to prevent ponding. We have been advised there is no ponding on the present roof.

The Dead Loads have been estimated based on the assumptions noted in this report. Please review, and notify us if any of these assumptions are incorrect or if any changes have been made that would increase the dead load allowance.

The Dead Loads for the roof have been estimated as follows:

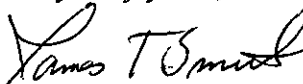
Roof Membrane System	4 psf
Construction	4 psf
Ceiling Finish	4 psf
Miscellaneous - Piping & Electrical	3 psf
Total Roof Dead Load	15 psf

Based on the information we received from field measurements from Mr. Di'Giorgio's representative, it is our opinion that this roof structure can safely support the loads required by the BOCA/New Jersey State Building Code and still have a reserve capacity more than enough to accept additional piping and roof mounted equipment loads of less than 500 lbs. without any problem.

We are faxing you unsealed copies of our computations and letters. A sealed copy, with the embossed seal of Professional Engineer in the State of New Jersey, will follow in the regular mail.

If you have any questions or if I can be of any further service to you in this matter, please do not hesitate to call.

Very truly yours,



James T. Smith, P.E.
Professional Engineer
State of New Jersey
License No. 16249

c.c. Tom Di'Giorgio

JTS:mlm
TGIF-Brick2.037.doc
25-Feb-98 1:42 PM

Project Title : TGIF Fridays Restaurant
Location : Lakewood Brick Twp, NJ
Client : DK Architects
Project No : 037-047
Disk Name : 037-DKGeorgio
25-Feb-98 Initial Effort
25-Feb-98 Latest Revision

Task : Joist Design / Review With 2 Concentrated Loads & Drift Loads
Disk Name : 053_JOI Steel Joist
Designer : Jim Smith

Boeca National Building Code
Steel Joist Institute Specifications
Design & Review Joist Without Ca

$$V=0 \quad x = (b \pm (b^2 - 4ac)^{1/2}) / 2a$$

$$X = ax^2 + bxc + c = 0$$

James T. Smith

Location	Mark	Joist Type	Safety Factor	Check	M	R	d	D	Can't Left End	Span	Can't Right End	Space-Ing	Uniform Loads on Cantilever										Deflection Limitation Live or Snow Load	Deflection Limitation Total Load					
													Uniform Loads					Ends of Beam											
													L	D	Add	Joist Weight	Left L	D	TL	Right L	D	TL							
Location	Mark	Snow Loading		Roof Slope		Trib Area	Query #1		Query #2		Slope Of Hip		Mem Of Inertia																
		Pg	Ce	Vert	Horz		Yes	No	Yes	No	Roof	Vert		Horz	deg														
Roof	J1	20	0.7	1.0	0.25	12	1.2	133	NO	0.00	0.00	0.00	NO	0.25	12	1.2	1.2	398.9	Drift or Slide Loads not Considered	Drift or Slide Loads not Considered	398.9	Drift or Slide Loads not Considered							
Roof	J2	20	0.7	1.0	0.25	12	1.2	133	NO	0.00	0.00	0.00	NO	0.25	12	1.2	1.2	398.9	Drift or Slide Loads not Considered	Drift or Slide Loads not Considered	398.9	Drift or Slide Loads not Considered							
Roof	J3	20	0.7	1.0	0.25	12	1.2	133	NO	0.00	0.00	0.00	NO	0.25	12	1.2	1.2	398.9	Drift or Slide Loads not Considered	Drift or Slide Loads not Considered	398.9	Drift or Slide Loads not Considered							
Roof	J4	20	0.7	1.0	0.25	12	1.2	138	NO	0.00	0.00	0.00	NO	0.25	12	1.2	1.2	143.5	Drift or Slide Loads not Considered	Drift or Slide Loads not Considered	143.5	Drift or Slide Loads not Considered							
Roof	J5	20	0.7	1.0	0.25	12	1.2	60	NO	0.00	0.00	0.00	NO	0.25	12	1.2	1.2	164.3	Drift or Slide Loads not Considered	Drift or Slide Loads not Considered	164.3	Drift or Slide Loads not Considered							
Location	Mark	Concentrated Loads				Concentrated Loads				Concentrated Load on Cantilever				Main Span TOTAL				Snow	Uniform Loads on Cantilever										
		P1 From Left				P2 From Left				Left End of Beams				Right End of Beams					Ends of Beam										
Roof	Mark	L	D	P1	Al	B1	L	D	P2	A2	B2	L	D	TL	L	D	TL	L	D	TL	L	D	TL	L	D	TL	L	D	TL
Roof	J1	0	0	0	0.00	44.17	0	0	0	0.00	44.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof	J2	0	0	0	0.00	44.17	0	0	0	0.00	44.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof	J3	0	0	0	0.00	44.17	0	0	0	0.00	44.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof	J4	0	0	0	0.00	27.67	0	0	0	0.00	27.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof	J5	0	0	0	0.00	27.67	0	0	0	0.00	27.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Location	Cs	Pf	Ps	L	hd	Sliding Snow Increase	hd	hb	Wd	D	Drift Max	Pf	Pm	Added To Basic Pf Or Ps	Start of Drift Load from Left End	Main Span TOTAL	Snow	Uniform Loads on Cantilever											
																		Ends of Beam											
Roof	NA	14.0 - NA	20	NA	NA	NA	0.84	NA	16.6	NA	14.0	NA	0.0	0.00	0.00	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof	NA	14.0 NA	20	NA	NA	NA	0.84	NA	16.6	NA	14.0	NA	0.0	0.00	0.00	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof	NA	14.0 NA	20	NA	NA	NA	0.84	NA	16.6	NA	14.0	NA	0.0	0.00	0.00	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof	NA	14.0 NA	20	NA	NA	NA	0.84	NA	16.6	NA	14.0	NA	0.0	0.00	0.00	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Roof	NA	14.0 NA	20	NA	NA	NA	0.84	NA	16.6	NA	14.0	NA	0.0	0.00	0.00	NA	0	0	0	0	0	0	0	0	0	0	0	0	0

Project Title: TGIF Friday's Restaurant
Location: Lakewood Brick Twp NJ
Client: DK Architects
Project No: 037-047
Disk Name: 037-DJ-Geo
25-Feb-98 Initial Effort
25-Feb-98 Latest Revision

Task: Joist Design / Review With 2 Concentrated Loads & Drift Loads
Disk Name: 033 JOI Steel Joist
Designer: Jim Smith

Boon National Building Code
Steel Joist Institute Specifications
Design & Review Joist Without Ca

$$V=0 \quad X=(b \pm (b^2 - 4ac)^{1/2})/2a$$

$$X= \quad ax^2 + bx + c = 0$$

James T. Smith

Location	Reaction	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Reaction Balance	Reaction Left in pounds per foot of Support	Reaction Right in pounds per foot of Support	
Roof	Mark	S	S	L	L	D	D	S+D	S+D	L+D	L+D	S	L	D	TL
Roof	J1	928	928	1,325	1,325	1,299	1,299	2,226	2,226	2,624	2,624	OK	442	433	875
Roof	J2	928	928	1,325	1,325	1,299	1,299	2,226	2,226	2,624	2,624	OK	442	433	875
Roof	J3	928	928	1,325	1,325	1,299	1,299	2,226	2,226	2,624	2,624	OK	442	433	875
Roof	J4	968	968	1,383	1,383	1,181	1,181	2,150	2,150	2,565	2,565	OK	277	236	513
Roof	J5	420	420	599	599	610	610	1,030	1,030	1,209	1,209	OK	277	282	558
Location		Reserve Capacity										Max. Concentrated Load Without Uniform Live Load	Max. Concentrated Load With Uniform Live Load		
Roof	Mark														
Roof	J1	Reserve Capacity =	109	36	Controlled By Moment										
Roof	J2	Reserve Capacity =	109	36	Controlled By Moment										
Roof	J3	Reserve Capacity =	109	36	Controlled By Moment										
Roof	J4	Reserve Capacity =	191	38	Controlled By Reaction										
Roof	J5	Reserve Capacity =	303	140	Controlled By Reaction										
Location															
Roof	J1	Dist From LEFT													
Roof	J2	L&D	S	S+D	L	D	L+D	S	S+D	L	D	L+D			
Roof	J3	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0	V=0			
Roof	J4														
Roof	J5														
Location															
Roof	J1	22.08	22.08	22.1	176	172	348	123	295	0	0	0	0	0	0
Roof	J2	22.08	22.08	22.1	176	172	348	123	295	0	0	0	0	0	0
Roof	J3	22.08	22.08	22.1	176	172	348	123	295	0	0	0	0	0	0
Roof	J4	13.83	13.83	13.8	115	98	213	80	178	0	0	0	0	0	0
Roof	J5	13.83	13.83	13.8	50	51	100	35	85	0	0	0	0	0	0
Location															
Roof	J1	3018	4.60												
Roof	J2	3018	4.60												
Roof	J3	3018	4.60												
Roof	J4	18H7	2.08												
Roof	J5	18H8	5.35												
Location															
Roof	J1	3018	4.60												
Roof	J2	3018	4.60												
Roof	J3	3018	4.60												
Roof	J4	18H7	2.08												
Roof	J5	18H8	5.35												

Project Title: TGIF Fridays Restaurant
Location: Lakewood Brick Twp, NJ
Client: DK Architects
Project No: 037-047
Disk Name: 037-DKGeorgio
25-Feb-98 Initial Effort
25-Feb-98 Latest Revision

Task: Joist Design / Review With 2 Concentrated Loads & Drift Loads
Disk Name: 053_JOI Steel Joist
Designer: Jim Smith

Boca National Building Code
Steel Joist Institute Specifications
Design & Review Joist Without Ca

$$V=0 \quad x = (b \pm (b^2 - 4ac)^{1/2})/2a$$

$$X = ax^2 + bx + c = 0$$

James T. Smith

Location	Mark		Deflection Limitation Live Load	Deflection Limitation Total Load	Deflection L+Reserve w L Equiv max Limit plf in in	Deflection L+D+Reserve w D+L Equiv max Limit plf in in	Deflection S+Reserve w D+L Equiv max Limit plf in in	Deflection Reserve Load w L Equiv max plf in
Roof	J1	DEFLECTION WITHIN LIMITS	L/ 240	Of the Span L/ 180	60 1.25 2.21 119 1.69 2.94	42 42 42	109 0.81	
Roof	J2	DEFLECTION WITHIN LIMITS	L/ 240	Of the Span L/ 180	60 1.25 2.21 119 1.69 2.94	42 42 42	109 0.81	
Roof	J3	DEFLECTION WITHIN LIMITS	L/ 240	Of the Span L/ 180	60 1.25 2.21 119 1.69 2.94	42 42 42	109 0.81	
Roof	J4	DEFLECTION WITHIN LIMITS	L/ 240	Of the Span L/ 180	60 0.92 1.38 185 1.19 1.84	70 70 30	191 0.60 303 0.84	
Location		Joist Rows Type Of Span Size Chord ft	Horizontal Bridging L/R <= 300 Horiz Bdg L/R <= 200 Diag Bdg		Bearing Plate L Length Of Plate Parallel To Joist W Width Of Plate Parallel To Joist Fp React Req L w Fp N T A psi K in			

Members

Gary Casperson, *Chairman*
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Seymour J. Kagan, *Counsel*



OCEAN COUNTY HEALTH DEPARTMENT

P.O. Box 2191
Toms River, NJ 08754-2191
(908) 341-9700

Joseph J. Przywara
Public Health Coordinator

February 25, 1998

ATTN: CONSTRUCTION CODE OFFICIAL
Township of Brick
401 Chambers Bridge Road
Brick, NJ 08723

RE: PROPOSED FLOOR PLANS
Block 672 Lot 12
T. G. I. F.
709 Route 70
Brick, NJ 08723

Dear Sir,

I have reviewed the floor plans for the above referenced proposed food establishment and have found them to be in substantial compliance with Chapter XII, the New Jersey State Retail Food Code.

If you should have any questions, please feel free to contact me at this office.

Sincerely,


Steve Klaniecki
Sanitary Inspector

SK:bd

CC: Township of Brick Board of Health



OCEAN COUNTY HEALTH DEPARTMENT

No: _____

SANITARY INSPECTION REPORT

BLK 672 Lot 12

ESTABLISHMENT INFORMATION

PHONE # 262-0937		ESTABLISHMENT CODE 22	GOODS ☐ DESTROYED ☒ EMBARGOED
ESTABLISHMENT TRADING NAME T. G. I. F.		EVALUATION ☒ SATISFACTORY ☐ CONDITIONALLY SATISFACTORY ☐ UNSATISFACTORY	
NUMBER AND STREET 709 Rt. 70		WATER SUPPLY ☒ Public - Community ☐ Individual (Public - Non-Community)	
CITY OR MUNICIPALITY Brick	ZIP CODE 08723		
ESTABLISHMENT LICENSE NO. To Be Obtained	COMMUN. CODE 1500	RISK II	

OWNER INFORMATION

(Complete this section only if different from establishment information)

NAME OF OWNER(S), CORPORATION OR REGISTERED AGENT

Brick Twp. Pub

NUMBER AND STREET

2 Woodland Drive

CITY OR MUNICIPALITY

Dallas

STATE

PA

ZIP CODE

18612

COMMUN. CODE

—

TIME (2400 HOURS)

DATE

2-23-98

BEGIN

0825

END

0910

COMPLAINT NO.

COMPLAINT REC.

COMPLAINT INSPECTED

INSPECTION TYPE	TYPE OF ESTABLISHMENT
☐ COMPLAINT	☒ RETAIL
☐ INITIAL INSPECTION	☐ WHOLESALE
☐ REINSPECTION	☐ VENDING MACHINE NO. OF MACHINES
☒ PLAN REVIEW	☐ FROZEN DESSERTS
☐ CONFERENCE	☐ OTHER

Joseph J. Przywara
Health Officer
Sunset Avenue
P.O. Box 2191
Toms River, N.J. 08754-2191
Telephone No. 732-341-9700
609-978-9715

Tobacco O, V, NA.

NAME OF INSPECTING OFFICIAL (Print)

Steve Klarnecki

SIGNATURE OF INSPECTING OFFICIAL

Steve Klarnecki

PERMANENT
REG. NO.

B-1463

DETAILED DATA SHEET

Establishment Trading Name T. G. I. F	Establishment License No. TO BE OBTAINED	Date 2-23-98
Signature of Inspecting Official <i>[Signature]</i>	Municipality Bracon	Time - (2400 Hours) Begin 0825
REQ. NO.	REMARKS (Please specify area)	
	THE ATTACHED PLAN HAS BEEN FOUND TO BE IN SATISFACTORY COMPLIANCE WITH CHAPTER XII, NOTE: THIS DEPARTMENT IS TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO INTENDW OPERATION FOR A PRE-OPERATIONAL INSPECTION.	

H.D. 67

Page

of

Pages

WE

DELIVER

914-1116



GO-GETTERS

DELIVERY SERVICE, INC.

DELIVERY MENU • We Accept Credit Cards

DELIVERY PROVIDED BY



JACK DANIEL'S @ ENTREES

(All with a cup of soup or house salad)

Jack Daniel's @ Steak w/ Loaded Baked Potato.....	\$15.29	Jack Daniel's @ Pork Chops w/ Mashed Potatoes ...	\$12.99
Jack Daniel's @ Ribs w/ Onion Rings.....	\$13.29	Jack Daniel's @ Chicken w/ Loaded Baked Potato ..	\$10.99
Jack Daniel's @ Salmon.....	\$13.49	Jack Daniel's @ Shrimp & Steak w/Mashed Potato ..	\$16.49
Jack Daniel's @ Shrimp & Chicken /Mashed Potatoes.....	\$10.99	Jack Daniel's @ Shrimp & Pork Chops w/Potatoes ..	\$12.79
Jack Daniel's @ Shrimp & Glazed Ribs w/Onion Rings.....	\$10.99		

APPETIZERS

Cajun Angels	\$7.49	Loaded Potato Skins	\$6.99	Friday's Three For All	\$9.29
Friday's Mushrooms.....	\$4.99	Half Order.....	\$5.29	Friday's Thin Onion Rings.....	\$3.59
Creamy Spinach & Artichoke Dip	\$5.69	Jalapeno Poppers	\$4.99	Fried Mozzarella	\$5.49
Thai Chicken	\$5.99	Fried Calamari	\$5.99	Friday's Quesadilla	\$5.99
		Pot Stickers	\$5.99	With Grilled Chicken.....	Add \$1.79
		Buffalo Wings	\$5.79		

NACHOS

Nine-Layer Dip	\$5.99	Friday's Nachos	\$6.99
With Grilled Chicken or Beef	Add \$1.79	Cheddar Cheese Nachos	\$4.99

SOUPS & COMBINATIONS

Onion Soup	Bowl \$3.99	Cup \$2.99	Soup and Salad	\$5.69
Broccoli Cheese Soup	Bowl \$3.99	Cup \$2.99	Sandwich and Soup	\$5.99
Soup of the Day	Bowl \$3.99	Cup \$2.99	Sandwich and Salad	\$5.99

SALADS

Friday's House Salad	\$3.79	Caesar Salad	\$5.99	Cajun-Fried Chicken Salad ..	\$8.19
With Cheese & Bacon add \$1.09		Grilled Chicken Caesar Salad	\$8.49	Cobb Salad	\$7.19
With Shrimp	add \$1.99	Blackened Tuna Caesar Salad	\$7.99	Cantonese Chicken Salad ..	\$8.19
SALAD DRESSINGS: Creamy Bleu Cheese • Fat Free California French • Fat Free Ranch • Honey Mustard • Fat Free Honey Mustard • Hot Bacon Mustard • House (Italian dressing with crumbled bleu cheese) • Italian • Oil & Vinegar • Orange Sesame • Ranch • Thousand Island					

FRIDAY'S LITE

Salad & Baked Potato	\$4.99	Pacific Coast Chicken	\$6.99
Friday's Gardenburger	\$6.79	Fresh Vegetable Medley	\$6.79
Pacific Coast Tuna	\$6.99		

SANDWICHES

(All sandwiches are served with Friday's Fries)

French Dip	\$7.59	Pilly Cheese Steak Wrapper	\$7.39	Club-Style Croissant	\$7.59
Friday's Club	\$6.49	Grilled Chicken Wrapper	\$7.39	Blackened-Cajun Chicken	\$7.59
Char-grilled Chicken	\$7.39	Texas Torpedo Wrapper	\$7.39	Smoked Turkey Reuben	\$7.59
Veggie Wrapper	\$6.99	Szechuan Steak Wrapper	\$7.39	California Char-grilled Turkey ..	\$6.59

PASTA

(Served with your choice of Soup or Salad and Hot Garlic Bread)

Blackened Chicken Alfredo .. \$9.99	Dion Chicken with Pasta	\$9.29	Linguini with Shrimp	\$10.49
Spicy Cajun Chicken Pasta .. \$9.99	Broken Noodles	\$9.29	Fettuccini Alfredo.....	\$7.99

SOUTHWESTERN

Char-grilled Fajitas	\$10.29	Chicken Enchiladas.....	\$7.99
----------------------------	---------	-------------------------	--------

FOR DELIVERY CALL 914-1116 • ~Ask About Our Party Platters~

HAMBURGERS

(All sandwiches are served with Friday's Fries)

Hamburger	\$6.19	Wednesday Burger	\$6.59	Saturday Burger	\$6.59
Cheeseburger	\$6.39	Sautéed onions and mushrooms with a thick layer of melted mozzarella cheese		Melted cheddar cheese and	
Bacon Cheeseburger	\$6.59	Thursday Burger	\$6.59	Sautéed mushrooms, crisp bacon and melted Swiss cheese	
Monday Burger	\$6.59	Sautéed mushrooms, crisp bacon and melted Swiss cheese		Friday Burger	\$6.59
Meltd cheddar cheese, sautéed mushrooms and Burgundy wine sauce		Tuesday Burger	\$6.59	Sautéed mushrooms, crisp bacon and melted American cheese	
Burgundy wine sauce					

Name Your Own Burger: Choose up to four ingredients \$6.69 - Each additional add 39¢
American cheese • Avocado • Bacon • Bell Peppers • Black beans • Bleu cheese • Burgundy wine sauce • Cajun seasoning • Canadian bacon • Cheddar cheese • Guacamole • Jalapenos • Monterey Jack cheese • Mozzarella cheese • Mushrooms • Onions • Salsa • Swiss cheese

PIZZADILLA'S

Pepperoni Pizzadilla	\$6.69	Sausage Pizzadilla	\$6.69
Spinach & Feta Pizzadilla	\$6.69	Cheese Pizzadilla	\$5.99

Name Your Own Pizzadilla: Add your own toppings to our Pizzadilla. Each item, add 69¢
Black olives • Canadian bacon • Fresh tomato • Mozzarella cheese • Mushrooms • Onions • Pepperoni • Peppers • Pineapple • Sausage

STEAKS AND RIBS

(A loaded baked potato may be substituted for Friday's Fries on the following entrees, add 99¢)

Triple Sticks™	\$10.39	Baby Back Ribs	\$12.29
Steak on a Stick Platter	\$6.79	Friday's Steak Aussie	\$12.29

The steak items below include roasted vegetables, choice of potato and cup of soup or House Salad with garlic bread.

New York Strip	\$15.29	Steak on a Stick Dinner	\$9.79
Mushroom Steak Mushroom	\$11.29	Center Cut Filet Mignon	\$16.29

SEAFOOD

(A loaded baked potato may be substituted for Friday's Fries, add 99¢)

Jack Daniel's Shrimp.....	\$13.49	Fish and Chips	\$7.29
Shrimp Friday's	\$11.29	Cajun Angels Dinner	\$11.49

CHICKEN

(A loaded baked potato may be substituted for Friday's Fries, add 99¢)

Herb Grilled Chicken	\$9.99	Chicken Fingers	\$7.69
Cajun Chicken Fingers	\$7.69	Mushrooms, Chicken and Mushrooms	\$10.99

EXTRAS

Friday's Fries	\$2.49	Black Beans & Brown Rice	\$1.69	Chef's Vegetable Selection ..	\$1.69
Friday's Onion Rings	\$3.59	Rice Pilaf	\$1.09	Friday's Colelaw	\$1.09
Loaded Baked Potato	\$2.59	Roasted Vegetables	\$1.69	Garlic Bread Sticks	\$.99

DESSERTS

Oreo @ Madness	\$3.79	Chocolate Caramel Crunch Cake	\$3.69	Friday's Sundae	\$3.69
Rockslide Pie	\$3.69	Pie-in-the-Sky	\$3.69	Praline Cheesecake	\$3.69
Fat Free Cheesecake	\$2.99	Mocha Mud Pie	\$3.79	Carrot Cake	\$3.69

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council

Helen Fayad, President
Stephen C. Acropolis
Martin J. Anton
Victor Cantillo
Lee Hartman
Mary Lou Powner
Michael A. Thulen

Department of Administration & Finance

Division of Inspections
Joseph Curiazza
Acting Construction Official
(908) 262-1024
Fax (908) 920-4850
<http://gbs.com/brick>

February 27, 1998

TO WHOM IT MAY CONCERN:

As of this date, February 27, 1998, the Building Department
will not issue a temporary certificate of occupancy until
Affordable Housing is satisfied.

Joseph Curiazza
Construction Official

**OFFICE OF AFFORDABLE HOUSING
CERTIFICATE OF COMPLIANCE**

BLOCK 672 LOT 12 SITE ADDRESS 105 RT 70
TYPE OF SITE Residential / Commercial TYPE OF BUSINESS None
APPLICANT DV Development PHONE NUMBER 609-341-1100
APPLICANT ADDRESS 112 Canal Street Dr CITY & STATE Camden NJ 08101
PERMIT # _____ NAME OF BUSINESS TDI Development

INCLUSIONARY DEVELOPMENT

◇ Affordable	Fee Required _____	Date _____
	Down Payment _____	Date _____
	Balance _____	Date _____
	Paid In Full _____	Date _____
◇ Market Rate	No Fee Required	

MANDATORY DEVELOPER FEES

- ◇ Residential is .005 %
X Commercial is .01 %

Estimated Assessment \$ 12,000.00 Date 1-1-97
Estimated Required Fee \$ 120.00
Required Deposit on Estimate \$ 60.00 Date 1-9-98
Check # 6202476 Receipt # 3213
Actual Assessment \$ 12,000.00 Date 2-27-98
Actual Required Fee \$ 120.00
Minus Deposit of Estimate \$ 60.00
Balance Due \$ 60.00 Date 3-2-98
Check # 6003 Receipt # 3726
Amount Paid In Full \$ 120.00

Fees Imposed To Date _____
Fees Reached \$15,000 _____ Date _____

I hereby certify that the above applicant has complied with all rules and regulations of the Office of Affordable Housing and has paid all required fees and charges.

Carol A. Wolfe
Affordable Housing Administrator

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY

401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:

Michael A. Thulen, President

Stephen C. Acropolis

Martin J. Anton

Victor Cantillo

Helen Fayad

Lee Hartman

Mary Lou Powner

Office of Affordable Housing

Carol A. Wolfe

Affordable Housing Administrator

(732) 262-1048

CASE # _____

APPROVAL DATE: _____

(Planning Board/BOA)

DATE: 1-6-98

TO: Frederick R. Millman, CTA
Tax Assessor

FROM: Carol A. Wolfe
Affordable Housing Administrator

RE: BLOCK 672 LOT 12 SITE ADDRESS 705 RT. 70

TYPE OF SITE Commercial TYPE OF BUSINESS TGIF - Signs
(Residential/Commercial)

APPLICANT DYS Industries CITY & STATE Burlington, NJ 08016

☒ Please review the attached application for an **estimated** assessed value for the proposed construction.

The **estimated** assessed value for the construction at the above referenced site is:

\$ 12,000

Butler
Frederick R. Millman, CTA, Tax Assessor

1-7-97

Date

☒ Please review the attached application for a final assessed value for the construction at the above referenced site:

\$ 12,000

Butler
Frederick R. Millman, CTA, Tax Assessor

2/27/98

Date

CERTIFICATE OF COMPLIANCE

BLOCK 672 LOT 12 SITE ADDRESS 705 R. 70-10
TYPE OF SITE Commercial TYPE OF BUSINESS Interior Alteration
Residential/Commercial
APPLICANT Bricktown Pubs PHONE NUMBER 717-674-8737
APPLICANT ADDRESS 2 Woodland Dr. CITY & STATE Dallas Pa
CASE # _____ NAME OF BUSINESS TEIF

INCLUSIONARY DEVELOPMENT

☐ Affordable Fee Required _____ Date _____
Down Payment _____ Date _____
Balance _____ Date _____
Pd. in Full _____ Date _____
☐ Market Rate No Fee Required

MANDATORY DEVELOPER FEES

☐ Residential is .005%

☒ Commercial is .01%

Estimated Assessment: 169500⁰⁰ (1695⁰⁰) Date 10-29-97
Required Deposit on Estimate \$ 847.50 Date 10-31-97
Check # 1496 Receipt # 9973
Actual Assessment: 169500.00 Date 3-27-98
Actual Required Fee: \$ 1695.00
Minus Deposit of Estimate \$ 847.50
Balance Due \$ 847.50
Amount Paid in Full \$ 1175.00 Date 3-2-98
Check # 1003 Receipt # 3326

I hereby certify that the above applicant has complied with all rules and regulations of the Office of Affordable Housing and has paid all required fees and charges.

OF 1000 for

Balance Due \$ 847.50

Carol A. Wolfe
Affordable Housing Administrator

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:

Michael A. Thulen, President
Stephen C. Acropolis
Martin J. Anton
Victor Cantillo
Helen Fayad
Lee Hartman
Mary Lou Powner

Office of Affordable Housing
Carol A. Wolfe
Affordable Housing Administrator
(908) 262-1048

CASE # _____

APPROVAL DATE: _____
(Planning Board/BOA)

DATE: 10-29-97

TO: Frederick R. Millman, CTA
Tax Assessor

FROM: Carol A. Wolfe
Affordable Housing Administrator

RE: BLOCK 672 LOT 12 SITE ADDRESS 705 Route 70

TYPE OF SITE Commercial TYPE OF BUSINESS TGIF
(Residential/Commercial)

APPLICANT Bricktown Pubs CITY & STATE Dallas, Pa

☒ Please review the attached application for an **estimated** assessed value for the proposed construction.

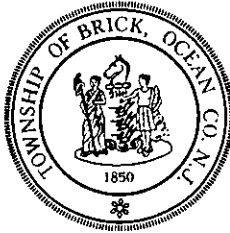
The **estimated** assessed value for the construction at the above referenced site is:

\$ 169,500
[Signature]
Frederick R. Millman, CTA, Tax Assessor
10/28/97
Date

☒ Please review the attached application for a final assessed value for the construction at the above referenced site:

\$ 169,500
[Signature]
Frederick R. Millman, CTA, Tax Assessor
2/27/98
Date

TOWNSHIP OF BRICK
OCEAN COUNTY, NEW JERSEY
401 CHAMBERS BRIDGE ROAD, BRICK, N.J. 08723



Joseph C. Scarpelli, Mayor

Township Council:

Victor Cantillo – President
Martin J. Anton
Helen Fayad
Gregory S. Kavanagh
Mary Lou Powner
Kathy M. Russell
Frederick J. Underwood, Sr.

Department of Administration & Finance

Division of Inspections

Joseph Curiazza

Construction Official

(732) 262-1024

Fax (732) 262-8954

<http://www.gbshost.com/brick>

DATE: 3-11-98

RE: 5;23-1.4 PRIOR APPROVALS

LOCATION 705 HICKORY 70

BLOCK 672 LOT 12

AFFIDAVIT:

I MICHAEL J MEID hereby request a partial filing to proceed with construction of only a Dumpster Enclosure at the above referenced location at my own risk. I understand and acknowledge that the issuance of this prior approval is subject to further approvals as are normally required. I understand that adjustments may be necessary in order to comply with the approved plot plan. The below department approvals are required prior to issuance.

[Signature]
APPLICANT

[Signature: Thomas K. Powner]
SIGNATURE OF TOWNSHIP ENGINEER
OR ASSISTANT ENGINEER

3/11/98
DATE

[Signature: Frank Meier JPC]
SIGNATURE OF BUILDING SUBCODE OFFICIAL

3/11/98
DATE

For further information...

on these products,
including nonstandard
sizes, contact

USG Interiors, Inc.
Dept 346
125 South Franklin
Street
P.O. Box 4470
Chicago, IL 60680-4470

Sales Offices
Alabama
Birmingham
(800) 223-1410

Indiana
Wabash
(800) 348-0633

Washington
Tacoma
(800) 426-8127

Information on
THERMAFIBER SAFB
Commercial Blankets is
also available from
United States Gypsum
Company

Product Information
and Literature:
1-800-USG-4YOU
(874-4868)

Sales Offices
Arizona
Phoenix
(602) 886-0795

California
Fremont
(510) 792-4400
Glendale
(818) 956-1882

Florida
Jacksonville
(904) 764-3293
Miami
(305) 557-4501

Georgia
Atlanta
(404) 393-0770

Hawaii
Honolulu
(808) 591-8815

Illinois
Chicago
(312) 606-5488

Indiana
Indianapolis
(317) 848-1513

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New Orleans
(504) 241-2020

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(617) 241-8530

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(313) 569-1900

Minnesota
Bloomington
(612) 854-4233

Missouri
St. Louis
(314) 349-0980

New York
Albany
(518) 458-7437
Stony Point
(914) 786-2820

North Carolina
Charlotte
(704) 552-7402

Ohio
Chesterland
(216) 729-1956

Oregon
Beaverton
(503) 626-8864

Pennsylvania
Philadelphia
(410) 355-2200
Pittsburgh
(800) 289-4874

Tennessee
Nashville
(615) 361-8419

Texas
Dallas
(214) 490-0771
Houston
(713) 666-0751

Utah
Salt Lake City
(801) 266-4975

Virginia
Richmond
(804) 285-7528

International Division
Chicago
(312) 606-5491

Please file
TG IF

For health and safety information see Material Safety Data Sheet (MSDS) and Health and Safety Aspects of Man-made Fiber available from USG Interiors, Inc. and United States Gypsum Company representatives and offices.

Metric Specification—USG Corporation, through its operating subsidiaries, will provide metric conversions on its products and systems to help specifiers match metric design sizes. In addition, some products are available in metric dimensions from selected manufacturing plants. Refer to *SA-100 Construction Selector* for additional information and a Table of Metric Equivalents.

Trademarks—The following are trademarks of USG Interiors, Inc. or a related company: FIRECODE®, HRESPAN, AC-1, SHEETROCK®, SMOKE SEAL, THERMAFIBER®.

Note: All products described here may not be available in all geographic markets. Consult your local sales office or representative for information.

Notice: We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

USG Interiors, Inc.
Thermafiber Division
125 South Franklin Street
P.O. Box 4470
Chicago, Illinois 60680-4470
SA-707/rev. 1-94 Printed in U.S.A.

18

Products meet:

ASTM C665

Federal Specification HH-I-521F—

- Curtain Wall Insulation as Types I and III (.02 perm, tested in accordance with ASTM E96 procedure)
- Safing Insulation as Type I
- Mineral Fireproofing as Type I
- SAFB Blankets as Type I
- FS-15 Blankets as Type I
- FS-25 Blankets as Type III, Class A

ASTM C612

Federal Specification HH-I-558B—

- Curtain Wall Insulation (all) as Classes 1 and 2 (.02 perm, tested in accordance with ASTM E96 procedure)
- Curtain Wall Insulation (CW 70, CW 90) as Classes 3 and 4 (.02 perm, tested in accordance with ASTM E96 procedure)
- Safing Insulation as Classes 1 and 2
- Mineral Fireproofing as Classes 1, 2, 3 and 4

ASTM E814

UL Standard 1479

- Safing Insulation used in conjunction with SMOKE SEAL Compound

ASTM C553

- THERMAFIBER Insulations adsorb less than 1% moisture by weight and volume

Products are approved by:

New York City Board of Standards & Appeals

- Curtain Wall Insulation, .02 perm, tested in accordance with ASTM E96 procedure (under BSA 214-73-SM & accepted by MEA-209-82)
- FIRESPAN Curtain Wall Insulation, MEA 189-93-M, MEA 190-93-M

- Safing Insulation (619-48-SM & 39-74-SM)
- Mineral Fireproofing (under BSA 619-48-SM & accepted by MEA: 70-71-M [4-hr. col.], 28-75-M [3-hr. col.], 25-74-M [2-hr. col.], 24-74-M & 138-75-M [beams])

State of Wisconsin Code

- Kitchen Duct Fireproofing (Section 64.67[6])

Good Design Practices

- 1 Vapor Retarders**—In air conditioned buildings in localities where high humidity and temperatures predominate, consideration should be given to placing the vapor retarder on warm or outside of wall to prevent moisture condensation within the insulation.
- 2 Ceilings**—Insulation should be carefully fitted around—not over—recessed light fixtures. Covering fixtures with insulation causes heat to build up, which could possibly result in fire.
- 3 Glass Spandrels**—To prevent possible moisture or condensation problems, minimum 1" air space is required between glass spandrels and insulation behind them.

- 4 Exterior Walls**—Penetrations in exterior walls for windows, doors, outlets, HVAC, etc., must be sealed with sealant or tape. Foil tape also should be used in foil-faced curtain wall applications to close joints and repair damaged areas. Mechanical attachment of safing and curtain wall insulation is required to avoid dislodging because of air movement, particularly in furred exterior walls without sheathing or backing.

- 5 Test Data**—USG Interiors, Inc. will provide certified test data for published fire, sound and structural systems designed and constructed according to its published specifications. Tests are conducted on curtain wall assemblies fire-protected with these products to meet performance requirements specified by various agencies. *System performance following any substitution of materials or compromise in assembly design cannot be certified and may result in failure under critical conditions.*

Thermal Resistance Values* (R = I/C)

For use in calculating heat transmission coefficients (u)

Insulation Values

Blanket Thickness	SAFB	Product & R Value	
		FS-25 (Foil Faced)	FS-15 (Unfaced)
6"	22	22	22
5K"	19	19	19
3K"	13	13	13
3"	11	11	11
2"	7.41	N/A	7.41
1K"	5.6	N/A	5.6
1"	4	N/A	4

*Based on listings in ASHRAE Handbook of Fundamentals (1985).

Material Values

1/2" insulating sheathing	2.06	asphalt shingle roofing	0.44
1/2" insulating sheathing	1.12	1/2" gypsum panels	0.45
1/2" gypsum sheathing	0.45	1/2" plaster base	0.32
1" extruded polystyrene insulation ⁽¹⁾	5.00	1/2" sanded plaster	0.09
1/2" plywood	0.82	1/2" plaster with light wt. aggregate	0.32
1/2" plywood	0.83	portland cement with aggregate (per in.)	0.20
1/2" hardboard	0.34	4" common brick	0.80
1/2" softwood (pine)	0.34	4" face brick	0.44
1/2" hardwood	0.88	8" clay tile	1.85
1" x 8" wood drop/siding	0.79	8" concrete block with sand aggregate	1.11
1/2" x 10" beveled wood siding	1.05	vapor-permeable felt	0.06
exterior stucco (1" thick)	0.20	vapor retarder plastic film	negl.
1/2" built-up roofing	0.33	carpet and fiber pad	2.08
wood shingle roofing	0.84	floor tile— asphalt, vinyl	0.05

(1) Thermal resistance for extruded polystyrene insulation at 40° F mean temperature is 5.4; data based on certified test.

Thermal Conductivity (according to ASTM C518)

Product Designation	K ⁽¹⁾ @75°F btu · in. hr. · sq ft · °F	For insulation only															
		1" thick	1 1/2" thick	2" thick	2 1/2" thick	3" thick	3 1/2" thick	4" thick	5" thick	6" thick	7" thick	8" thick	9" thick	10" thick	11" thick	12" thick	14" thick
CW 40	0.25 ⁽¹⁾	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CW 70	0.24 ⁽¹⁾	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CW 90	0.23 ⁽¹⁾	4.3	0.23	6.5	0.15	8.7	0.11	10.9	0.081	13.0	0.076	15.2	0.066	17.4	0.057	—	—
CW FIRESPAN 40	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
CW FIRESPAN 90	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Safing	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mineral Fireproofing	0.23	4.3	—	6.5	—	8.7	—	10.9	—	13.0	—	15.2	—	17.4	—	—	—
1" SAFB	0.25	4.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
All other SAFB	0.27	—	—	5.6	—	7.4	—	9.3	—	11.1	—	13.0	—	14.8	—	18.4	—
1" FS-15	0.25	4.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
All other FS-15	0.27	—	—	5.6	—	7.4	—	9.3	—	11.1	—	13.0	—	14.8	—	19.4	—
FS-25	0.27	—	—	—	—	—	—	—	—	11.1	—	13.0	—	14.8	—	19.4	—

(1) Applies to both standard color and dark curtain wall insulation.

(2) R = thickness ÷ K.

(3) U value shown is for insulation only. However, in practice U values represent the overall heat transmission of all components in an assembly (U = 1 ÷ Total R).

Surface Burning Characteristics (According to ASTM E84)

Product Designation	Flame Spread	Smoke Developed
CW Regular (Unfaced) ⁽¹⁾	15	0
CW Foil-Faced ⁽¹⁾	25	0
CW FIRESPAN (Unfaced)	15	0
CW FIRESPAN (Foil-Faced)	25	0
Safing Regular (Unfaced)	15	0
Safing Foil-Faced	25	0
Mineral Fireproofing (Unfaced)	15	0
Mineral Fireproofing Foil-Faced	25	0
Kitchen Duct Fireproofing Foil-Faced	25	0
FS-15 Blankets	15	0
FS-25 Blankets	25	0
SAFB	15	0
SMOKE SEAL Compound	5	0

All products have a class A interior finish rating per NFPA 101, life safety code.

(1) Applies to both standard color and dark curtain wall insulation.

Air Space Values*

	Type of Surface	
	Non-Reflective	Reflective
Heat flow up		
1/2" space	0.75	1.57
1" space	0.77	1.66
3/4" space	0.84	2.01
Heat flow down		
1/2" space	0.91	2.54
1" space	1.02	3.52
3/4" space	1.22	8.17
Heat flow horizontal		
1/2" space	0.90	2.48
1" space	0.94	2.77
3/4" space	0.91	2.55

*Based on 50° F mean temperature and 30° F temperature differential.

Air Surface Values

	Type of Surface	
	Non-Reflective	Reflective
Inside, heat flow up (still air)	0.61	1.32
Inside, heat flow down (still air)	0.92	4.55
Inside, heat flow horizontal (still air)	0.68	1.70
Outside, (15 mph wind)	0.17	—
Outside, (7.5 mph wind)	0.25	—

Fire Resistance Rated noncombustible as defined by NFPA Standard 220 when tested according to ASTM E136.

Product Density

Product Designation	Nom. Density —pcf	Approximate Density Tolerance —pcf ⁽¹⁾			Application Method
		Tacoma	Birmingham	Wabash	
CW 40 ⁽¹⁾	4.0	±0.5	-0.5 +1.0	2"	see tests for req'd. attachment
CW 70 ⁽¹⁾	6.0	±0.75	-0.75 +2.0	1 1/2"	
CW 90 ⁽¹⁾	8.0	±1.0	-1.0 +2.0	1"	
Safing	4.0	±0.5	-0.5 +1.0	4"	brackets or safing clips
Mineral Fireproofing	9.0	±1.5	-1.5 +2.0	2", 2 1/2"	snap-on wire clips or weld-on studs
1" SAFB	4.0	±0.5	-0.5 +1.0	1"	friction fit between studs
All other SAFB	2.5	±0.5	-0.5 +1.0	1 1/2"	friction fit between studs
1" FS-15	4.0	±0.5	-0.5 +1.0	1"	friction fit between studs
All other FS-15	2.5	±0.5	-0.5 +1.0	1 1/2"	friction fit between studs
FS-25	3.0	±0.5	-0.5 +1.0	3"	friction fit between studs

(1) Applies to both standard color and dark curtain wall insulation.

(2) On package weight basis.

- **THERMAFIBER FS-15 Commercial Blankets**, when installed in exterior walls, reduce heat transmission, saving energy and improving occupant comfort. They are ideal for commercial wood- and steel-stud assemblies and exterior Z-furring. Flame spread rating is 15, smoke developed 0.
- **THERMAFIBER FS-25 Commercial Blankets** provide thermal and sound control properties and are also foil-faced with an FSP vapor retarder. They are intended for most exposed-insulation and vapor-control situations such as floor/ceilings, walls or crawl spaces. Flame spread rating is 25, smoke developed 5.



Product Data Insulating Value information

Sizes & Shipping Points

Product Designation	Birmingham, AL		Standard Sizes		Webesh, IN		Standard Sizes		Tacoma, WA		Standard Sizes	
	Min. Thick.	Max. Thick.	Width(1)	Length(1)	Min. Thick.	Max. Thick.	Width(1)	Length(1)	Min. Thick.	Max. Thick.	Width	Length
CW-40 ⁽¹⁾	2"	6"	24"	36" 48" 60"	2"	6"	24"	36" 48" 60"	2"	6"	24"	48"
CW-70 ⁽¹⁾	1 1/2"	5"	24"	36" 48" 60"	1 1/2"	6"	24"	36" 48" 60"	1 1/2"	2 1/2"	24"	48"
CW-90 ⁽¹⁾	1"	4"	24"	36" 48" 60"	1"	5"	24"	36" 48" 60"	1"	2"	24"	48"
THERMAFIBER CW FIRESPAN 40	3"	6"	24"	36" 48" 60"	3"	6"	24"	36" 48" 60"	—	—	—	—
90	2"	4"	24"	36" 48" 60"	2"	5"	24"	36" 48" 60"	—	—	—	—
Safing ⁽¹⁾	4"	4"	24"	48"	4"	4"	24"	48" & 60"	4"	4"	24"	48"
SMOKE SEAL Compound	30 oz. cartridge, 5 gal. pails				30 oz. cartridge, 5 gal. pails				30 oz. cartridge, 5 gal. pails			
Mineral Fireproofing	1"	4"	24"	48"	1"	4"	24"	48" & 60"	—	—	—	—
Kitchen Duct Fireproofing	2 1/2"	2 1/2"	24"	48"	2 1/2"	2 1/2"	24"	48"	—	—	—	—
SAFB	1"	3"	16", 24"	48"	1"	3"	16", 24"	48" & 60"	1"	3"	16", 24"	48"
FS-15	1"	6"	16", 24"	48"	1"	6"	16", 24"	48"	1"	6"	16", 24"	48"
FS-25	3"	6"	16", 24"	48"	3"	6"	16", 24"	48"	3"	6"	16", 24"	48"

NOTE: Dimension tolerances—width $\pm 1/4"$, length $\pm 1/4"$, thickness $\pm 1/4"$, $\pm 1/8"$ (Tacoma products $\pm 1/4"$, $\pm 1/8"$).

(1) Aluminum-foil facing, available from all plants; also dark curtain wall insulation, available from Wabash or Birmingham plants.

(2) Consult sales representative for additional sizes. SAFB density 1" = 4 lb., all others = 2.5 lb.

THERMAFIBER Sound and Fire Control Insulations

Sound Attenuation Fire Blankets THERMAFIBER sound attenuation fire blankets (SAFB) are effective barriers to sound transmission for improved privacy and productivity in the workplace. They are particularly useful in partitions requiring fire ratings and as overlayment for ceilings to improve acoustics.

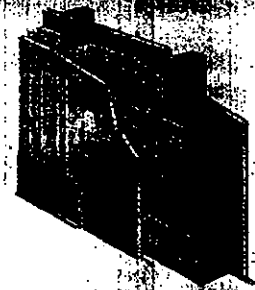
Depending on the particular assembly and application, partition STC ratings have been improved up to nine points by installing THERMAFIBER SAFB in the stud cavity. The insulation also has been shown to improve MTC ratings for low-frequency sound attenuation, isolating sounds from machinery, mechanical equipment and music.

THERMAFIBER SAFB are superior to glass fiber in sound attenuation. In fact, low-density glass fiber insulation must be nearly twice as thick as standard THERMAFIBER SAFB to provide the same attenuation.

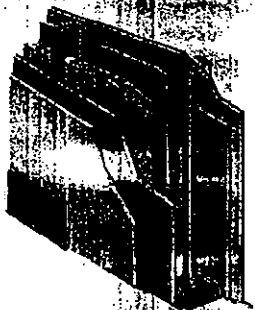
THERMAFIBER 3" SAFB with 2 layers resilient attached drywall one side, 2 layers direct attached drywall other side.
Sound test TL-87-153: 61 STC, 58 MTC.
UL Design U-455: 3-hour rating.



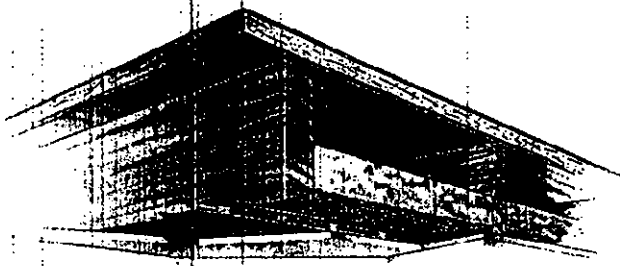
THERMAFIBER 3" SAFB with 1 layer resilient attached drywall one side, 1 layer direct attached drywall other side.
Sound test 88N-780903: 50 STC.
UL Design U-311: 1-hour rating.



THERMAFIBER 1 1/2" SAFB with 2 layers direct attached drywall both sides.
Sound test SA-800421: 55 STC.
UL Design U-412: 1-hour rating.



THERMAFIBER 3" SAFB with 2 layers resilient attached drywall on ceiling side, gypsum Type F pumped flooring, carpet and pad on floor side.
Sound test TL-90-40: 59 STC, 54 MTC.
UL Design I-541: 2-hour rating.



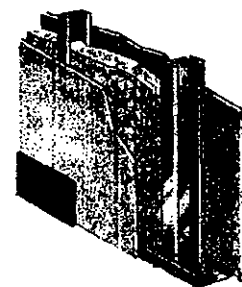
Creased THERMAFIBER SAFB
Creased THERMAFIBER SAFB offer the most economical drywall sound systems in the 50 to 55 STC range. These fire-rated systems are ideal for party and corridor walls in hotels, motels, offices, and multi-family dwellings.

The creased THERMAFIBER SAFB system is a patented insulation blanket assembly that is 1" wider than regular blankets. After the blanket is installed in the partition cavity, a 1" vertical slit is field-cut partially through the center of the blanket, allowing it to be creased. Compressing the extra width into the stud cavity buckles the center, exerting pressure against both studs and drywall. This pressure dampens sound vibrations and boosts the partition's STC rating.

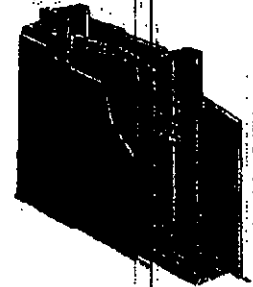
For example, a single-layer drywall partition with Creased THERMAFIBER SAFB has the same STC rating as an unbalanced drywall partition with standard SAFB.

For further information about THERMAFIBER SAFB and Creased SAFB, request IW-885, SAFB System Performance. For information about plaster and drywall partition systems construction for sound control, consult United States Gypsum Company publications SA-919 and SA-920 in Sections 09250 and 09200 respectively of Sweet's General Building and Renovation File.

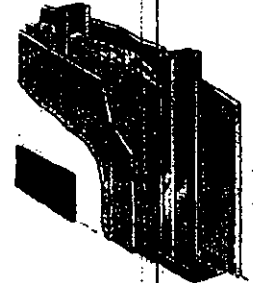
THERMAFIBER 3" Creased SAFB with 1 layer direct attached drywall on each side.
Sound test TL-85-128: 51 STC.
UL Design U-485: 1-hour rating.



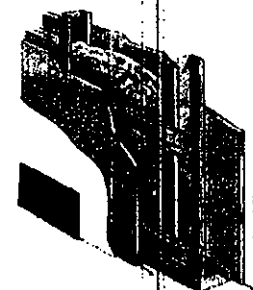
THERMAFIBER 3" Creased SAFB with 1 layer resilient attached drywall one side, 1 layer direct attached drywall other side.
Sound test SA-850415: 55 STC.
UL Design U-451: 1-hour rating.



THERMAFIBER 3" Creased SAFB with 1 layer direct attached gypsum base and veneer finish both sides.
Sound test SA-860620: 50 STC.
UL Design U-485: 1-hour rating.



THERMAFIBER 3" Creased SAFB with 1 layer resilient attached gypsum base and veneer finish one side, 1 layer direct attached gypsum base and veneer finish other side.
Sound test SA-860625: 55 STC.
UL Design U-451: 1-hour rating.



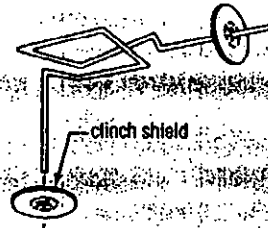
THERMAFIBER Mineral Fiber Structural Fireproofing

Fire can weaken structural steel framing in high-rise buildings. THERMAFIBER mineral structural fireproofing is a semi-rigid, asbestos-free felt that is noncorrosive to steel and aluminum and insulates structural framing from the heat of fire. Ease of installation and minimal clean-up make it superior to spray-on fireproofing materials.

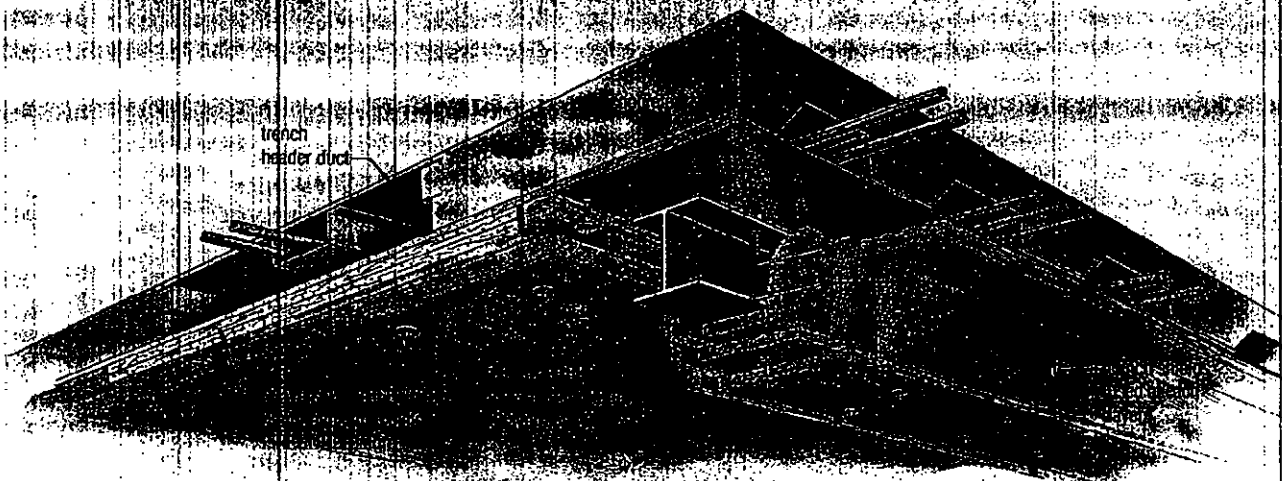
Eight UL designs are available with fire ratings as follows: 4-hr.—No. X304; 3-hr.—Nos. X306, N304, D301; 2-hr.—Nos. X305, N305, N304, D915, D302.

To estimate protection required for different size steel structural members, consult American Iron and Steel Institute (AISI) brochure "Designing Fire Protection for Steel Columns." AISI is headquartered in Washington, D.C.

12-ga. Snap-on Flange Clip (available from Wabash, IN)



12-ga. weld-on clips and 10-ga. cap-type stud welding pins are available from outside vendors.



Fire Ratings & UL Designs

Fire Rating	Description	UL Design No. **	Column or Beam Size
4 hr.	Mineral Fireproofing—single-layer 2" thick batts around column impaled on 1/8" steel wire studs welded to column, clip-on stud or strap-attached barbed battens.	X304	W14 x228
3 hr.	Mineral Fireproofing—double-layer 2" thick batts around column impaled on 1/8" steel wire studs welded to column, clip-on stud or strap-attached barbed battens.	X306	W10 x49
3 hr.†	Mineral Fireproofing—double-layer 2" thick around beam attached with stud welding pins or 12-ga. flange clips and clinch shields spaced 12" o.c. max.—2 1/4" concrete on fluted steel floor units—additional pieces of mineral fireproofing stuffed between crests of fluted deck and beam.	N304	W8 x24
3 hr.††	Mineral Fireproofing—single-layer 1 1/2" thick under floor deck and trench header with double-layer 1/2" SHEETROCK brand Gypsum Panels, FIRECODE C-Core, under trench header—triple-layer 1 1/2" thick mineral fireproofing around beam—fireproofing and panels attached with stud welding pins and clinch shields—2 1/2" concrete on fluted steel floor units.	D301	W6 x12
2 hr.	Mineral Fireproofing—single-layer 2 1/4" thick batts around column impaled on 1/8" steel wire studs welded to column, clip-on stud or strap-attached barbed battens.	X305	W10 x49
2 hr.	Mineral Fireproofing—double-layer 2" thick around beam attached with stud welding pins or 12-ga. flange clips and clinch shields spaced 16" o.c. max.—3 1/4" concrete on fluted steel floor units.†	D915	W8 x13
2 hr.	Mineral Fireproofing—single-layer 2" thick around beam attached with stud welding pins or 12-ga. flange clips and clinch shields spaced 12" o.c. max.—2 1/4" concrete on fluted steel floor units—additional pieces of mineral fireproofing stuffed between crests of fluted deck and beam.	N305	W8 x24
2 hr.†††	Mineral Fireproofing—single-layer 1" thick under floor deck and trench header with double-layer 1/2" SHEETROCK brand Gypsum Panels, FIRECODE C-Core, under trench header—triple-layer 1" thick mineral fireproofing around beam—fireproofing and panels attached with stud welding pins and clinch shields—2 1/2" concrete on fluted steel floor units.	D302	W6 x12
1 1/2 hr.	Mineral Fireproofing—single-layer 2" thick around beam attached with stud welding pins or 12-ga. flange clips and clinch shields spaced 12" o.c. max.—2 1/4" concrete on fluted steel floor units.	N304	W8 x24

† Restrained beam rating; unrestrained beam rating is 2 hr. †† Beam rating 4 hr. ††† Beam rating 3 hr. ** Design prefix designates columns (X), Beams (N), Floors (D)

THERMAFIBER safing insulation fills the void between slab edge and curtain wall insulation to contain fire. Foil-faced insulation impedes the passage of smoke and noxious gases.

THERMAFIBER safing insulation also is the principal fire-resistant material used to fill poke-through openings. (See Fire/Smoke-Stop System page 5.)

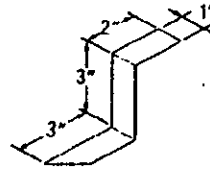
THERMAFIBER safing insulation system components include 4" thick by 24" wide blankets of insulation and specially designed safing impaling clips. Blankets are field cut and installed with safing clips or wire support brackets. Strips of insulation must be cut min. 1/2" wider than the opening to ensure a compression fit.

When safing is installed between the floor slab and curtain wall insulation which spans from mullion to mullion,

a supplementary backing/reinforcement member must be installed to prevent compression force of safing insulation from bowing curtain wall insulation.

Performance Tested In addition to extensive fire testing, THERMAFIBER safing insulation has also been tested for sound attenuation. An assembly was constructed to simulate a 6" thick concrete floor with a 6" opening between the slab and the exterior wall. The opening was filled with 4" thick, 4-lb./cu. ft. density THERMAFIBER safing insulation covered top and bottom with steel plates. This assembly produced a rating of STC 49, outperforming an assembly where the opening was filled with 2-lb./sq. ft. lead. Filling the space with concrete produced an assembly rating of STC 54.

THERMAFIBER Safing Impaling Clip



THERMAFIBER safing insulation is the preferred forming material for UL Designs U900D, U900J, U900K, U900X, and U900Y.



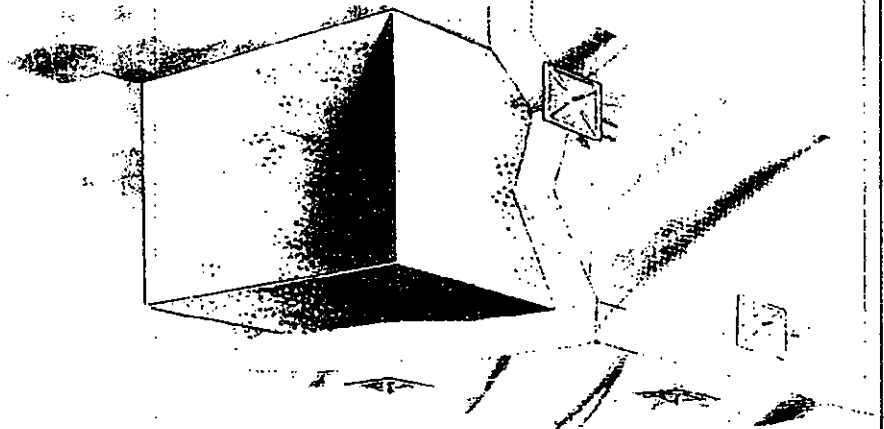
THERMAFIBER safing insulation is cut wider than the opening to ensure compression fit. Installs easily with wire support brackets or safing clips. Available with foil backing to impede smoke and noxious gases.

Safing Insulation Fire Containment

3 hr. Sparclret panel containing CW insulation and forming one end of the furnace—safe-off area sealed with 8"x4" THERMAFIBER safing strip—
WJE-71460 Dated 11-30-71

THERMAFIBER kitchen duct fireproofing protects buildings against fires that occur in kitchen grease ducts. The semi-rigid batt comes 2 1/2" thick, 8-lb./cu. ft. density, and is faced with aluminum foil. The THERMAFIBER kitchen duct fireproofing is applied around the 16-ga. steel duct, impaled on mechanically attached pins and secured with sheet metal shields. Tested in accordance with Section 64.67(6) of the State of Wisconsin Code (CEG Report 9-12-77), assembly provides a 2-hr. rating.

This product is also UL-Labelled per ASTM E84 for its surface burning characteristics.



In multi-story buildings, THERMAFIBER CW FIRESpan insulation prevents fire from breaking through exterior spandrel panels and spreading from floor to floor.

Fire test investigations of three THERMAFIBER curtain wall fire containment systems were conducted at the USG Corporation Research Center in Libertyville, Illinois. The tests were witnessed by Underwriters Laboratories, Inc. (UL), and the test results were reported in UL Special Services Reports dated January 8, 1993 and January 11, 1993, and a pending test report. All three assemblies were tested under positive pressure in the furnace.

The purpose of these fire test investigations was twofold. First, USG Interiors, Inc. sought to work with UL in the joint development of a test method to evaluate curtain wall fire containment systems. Because there is currently no UL or ASTM standard for testing curtain wall fire containment systems, the referenced reports are not UL-Classified or UL-listed; however, it is hoped that the test method will eventually be adopted as a UL or ASTM standard. Second, USG Interiors, Inc. sought to evaluate the relative performance of THERMAFIBER fire containment systems as utilized in typical curtain wall construction.

In actual curtain wall installations, fire can spread vertically through the safe-off area while simultaneously spreading outside of the building as a buoyant hot gas plume projecting out through the shattered vision glass and impinging on the curtain wall/vision glass assembly of the floor above. Individual evaluations of the safe-off area and the horizontal fire resistance of the spandrel panel as separate conditions are insufficient to describe the overall performance of the system as installed. Accordingly, the purpose of the test method is to evaluate the interdependent elements of a perimeter fire containment system as a whole.

The performance of the fire containment system depends

equally on protecting the curtain wall system elements that provide vertical separation and ensuring no fire spread at the safe-off region. The external exposure to flame requires that adequate vertical separation be maintained between the vision glass of a floor and that of the floor above to prevent direct ignition of the contents of the floor above.

The external exposure also causes differential heating of the curtain wall structural elements which induces thermal expansion within the system. It is our belief that this fire test method accurately simulates this exposure and demonstrates that the curtain wall fire containment system being tested can withstand and accommodate this exposure.

**UL Report Dated
January 11, 1993
2-Hr.-Rated, Aluminum-Framed,
Glass Curtain Wall System**

The assembly consisted of an aluminum-framed glass spandrel panel curtain wall protected with 2" thick THERMAFIBER CW FIRESpan-90 curtain wall insulation, a concrete floor slab and 4" thick THERMAFIBER safing insulation (see drawing on page 11). The assembly was subjected to a standardized fire exposure test with the furnace temperature adjusted to follow the time-temperature curve specified in ANSI/UL 263, Standard for Fire Tests of Building Construction and Materials (ASTM E119, NFPA No. 2511). The assembly prevented the passage of flames and the occurrence of flaming above the concrete slab for a period of 125 minutes. The temperatures that developed during the fire exposure test for this assembly are summarized in the following table.

Location	Maximum Temperature °F	TC No.
On structural angles	1225	002
On safing materials	801	009
On unexposed surface glass face	1898	017
On mullion cover below slab	1474	025
On containment wall	1320	027

**UL Report Dated
January 8, 1993
1-Hr.-Rated, Aluminum-Framed,
Aluminum Curtain Wall System**

The assembly consisted of an aluminum-framed aluminum spandrel panel curtain wall protected with 3" thick THERMAFIBER CW FIRESpan-40 curtain wall insulation, a concrete floor slab and 4" thick THERMAFIBER safing insulation (see drawing on page 10). The assembly was subjected to a standardized fire exposure test with the furnace temperature adjusted to follow the time-temperature curve specified in ANSI/UL 263, Standard for Fire Tests of Building Construction and Materials (ASTM E119, NFPA No. 2511). The assembly prevented the passage of flames and the occurrence of flaming above the concrete slab for a period of 62 minutes. The temperatures that developed during the fire exposure test for this assembly are summarized in the following table.

Location	Maximum Temperature °F	TC No.
On structural angles	1200	002
On safing material	1000	011
On unexposed surface glass face	1715	017
On mullion cover below slab	1598	025
On containment wall	1320	027

Note that in both of the FIRESpan curtain wall insulation fire tests the maximum temperature on the non-fire floor occurred on the top of the safing insulation. It is important to note that, in an actual fire, a knee wall would enclose this region from the top of the slab edge up to the window sill. The knee wall is typically surfaced with gypsum wallboard. Therefore, a better representation of heat transfer through this system would be obtained by including a knee wall construction and by placing thermocouples on both the interior and exterior face of the gypsum wallboard of the knee wall.

The top of the safing material reached 801°F only after two full hours of ANSI/UL 263 (ASTM E119, NFPA No. 2511) fire

exposure. A heat flow analysis was conducted to estimate the finish temperature of a knee wall construction. The surface temperature of a ½" regular SHEETROCK® brand gypsum panel and steel stud-framed knee wall was calculated based on the safing insulation thermocouple readings and a 6" distance (diagonal) to the inside face of the wallboard. Based on the gypsum board's calculation and these calculations, it was concluded that the finish temperatures should not exceed 250°F above ambient temperatures as prescribed in the ASTM E119 standard.

**UL Classification and Design
No. Pending**

2-Hr.-Rated, UL Gypsum Sheathing, Curtain Wall Fire Containment System

The assembly consisted of a 3½" 20-gauge steel-stud-framed spandrel panel protected by 3" thick THERMAFIBER CW FIRESpan-40 curtain wall insulation in the stud cavity, ½" SHEETROCK brand FIRECODE gypsum sheathing screw-attached to the exterior face, ½" SHEETROCK brand FIRECODE Gypsum Panels screw-attached to the interior face, a concrete floor slab, 4" thick THERMAFIBER safing insulation, and a steel-stud-framed gypsum knee wall enclosing the top of the insulated safe-off gap. The assembly prevented the passage of flames and the occurrence of flaming above the concrete slab for a period of 132 minutes. At no time during this test did the temperature on the face of the knee wall or the curtain wall above the floor slab exceed 250°F above ambient.

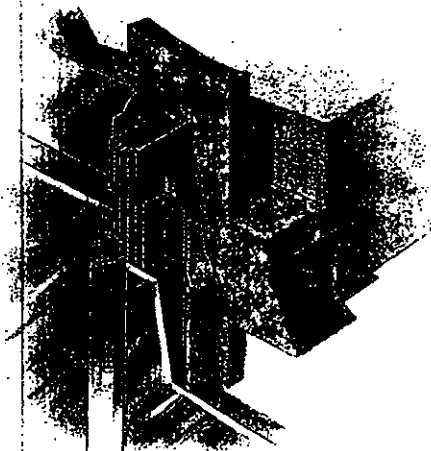
For detail drawings and further information on these tests, request IW-902 and IW-903 for tests dated January 11, 1993 and January 8, 1993 respectively. The test report for the gypsum sheathing curtain wall fire containment system will be available during the first quarter 1994.

Gypsum Sheathing Curtain Wall Fire Containment

- 2 hr. Gypsum sheathing spandrel panels, 5/8" thick, secured to 3x4" 20-ga. steel stud framing—3" THERMAFIBER CW FIRESPAN 40 curtain wall insulation—gypsum sheathing is SHEETROCK brand FIRECODE gypsum sheathing screw attached to exterior face of framing—concrete floor slab—4" THERMAFIBER safing insulation—steel stud framed gypsum knee wall encloses top of the insulated safe-off area. UL Classification and Design No. pending.

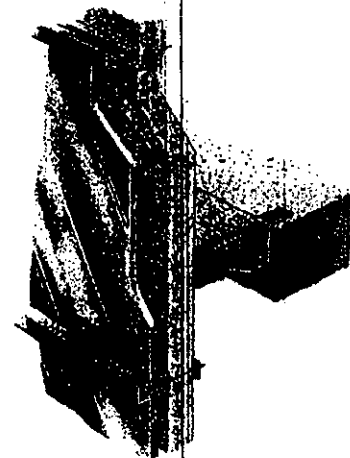
UL Classification and Design No. pending**UL Report Dated 1-11-93**

2-hour

**CEG 12-20-89****Glass Curtain Wall Fire Containment**

- 3 hr. Tempered vision-glass spandrel panel, 3'2"x6'2 1/4", 1/2" thick, in alum frame—2" CW-90 Dark Curtain Wall Insulation—impaled on pins secured with shields at top and bottom—CEG 4-2-81
- 2 hr. Heat-strengthened glass spandrel panel, 1/2" thick, secured to aluminum mullions at 5' o.c. with pressure plates—recessed UL-labeled 2" THERMAFIBER CW FIRESPAN 90 Insulation attached over impaling pins with sheet metal shields 12" o.c. to 2"x2" steel angles screw attached to mullions—mullions covered with 6" wide, 1" thick THERMAFIBER CW FIRESPAN 90 Insulation impaled 12" o.c. on same pins supporting 2" THERMAFIBER CW FIRESPAN 90 Insulation—1"x1"x22 ga. steel angle spanning horizontally embedded in 2" THERMAFIBER CW FIRESPAN 90 Insulation at horizontal splice of blankets—safe-off area between furnace and assembly was sealed with 4" thick UL-labeled THERMAFIBER safing insulation with safing clips.—
UL Report Dated 1-11-93
- 2 hr. Tempered glass spandrel panel, 4'8"x5'9", 1/2" thick, in alum frame—2" CW-90 Foil-Faced Curtain Wall Insulation—impaled on pins secured with shields—WJE-72481
- 2 hr. Tempered glass spandrel panel, 3/4" thick, secured to alum mullions at 5' o.c. with pressure plates—recessed 2" CW-90 Foil-Faced Curtain Wall Insulation screw attached with sheet metal shields 12" o.c. to 1/2"x1 1/4"x1 1/4" alum angles screw attached to mullions—mullions covered with 6" wide, 1" thick CW-90 Foil-Faced Curtain Wall Insulation screw attached 12" o.c. Safe off area between furnace and assembly was sealed with 4" THERMAFIBER safing installed from underside of floor slab using safing clips mechanically attached to underside of floor slab—CEG 12-20-89
- 2 hr. Tempered glass spandrel panel, 3/4" thick, secured to alum mullions at 5' o.c. with pressure plates—recessed 2" CW-90 Foil-Faced Curtain Wall Insulation screw attached with sheet metal shields 12" o.c. to 1/2"x1 1/4"x1 1/4" alum angles screw attached to mullions—mullions covered with 6" wide, 1" thick CW-90 Foil-Faced Curtain Wall insulation screw attached 12" o.c. Safe-off area between furnace and assembly was sealed with 4" thick THERMAFIBER safing topped off with 1" THERMAFIBER SMOKE SEAL compound in lieu of safing clips—CEG 1-10-90
- 1 hr. Heat-strengthened black glass spandrel panel 3'3"x5'9", 1/2" thick, in alum mullion frame—2" CW-90 Foil-Faced Curtain Wall Insulation inserted in mullions—support clips at floor slab—CEG 8-6-81
- 1 hr. Tempered solar gray glass panel 5'1 1/2"x6'10", 1/2" thick, set in alum mullion frame—2"x4"x5" CW-90 Curtain Wall Insulation—impaled on wire clips secured with shields 24" o.c.—CEG 7-25-85

1. Because safe off area was less than 2", safing insulation was friction fit and topped off with 1" of SMOKE SEAL compound in lieu of safing clips.

CEG 7-25-85

10

Typical Fire Containment Design/Tests

Current fire testing procedures are designed to evaluate a specific element (wall, beam or floor-ceiling). However, containing fire at an exterior wall requires fire resistance of the entire insulating system protecting both the spandrel and

the intersection of the floor at the spandrel. In the absence of an established fire testing procedure, USG Interiors developed a test to measure the fire containment of a complete curtain wall and saffing insulation assembly.

Aluminum Curtain Wall Fire Containment

5 hr.	Aluminum spandrel panel 5'x6'9", 1/4" thick, bolted to aluminum frame—2" CW-90 Foil-Faced Curtain Wall Insulation—weld-on pins with speed clips spaced 12" o.c.—CEG 4-23-90
2 hr.	Aluminum spandrel panel 4'x6'9", 0.247" thick, bolted to frame—2" CW-40 Foil-Faced Curtain Wall Insulation—8d aluminum, weld-on pins with speed clips 14" vert, 12" horiz.—USG 10-10-71
2 hr.	Aluminum spandrel panel 5'x6'9", 1/4" thick, bolted to frame—2" CW-90 Curtain Wall Insulation—weld-on pins with speed clips approx. 12" o.c.—WJE 72455
1 hr.	Aluminum spandrel panel, 1/4" thick, secured to aluminum mullions at 5' o.c. with pressure plates—recessed UL-labeled 3" THERMAFIBER CW FIRESPAN 40 Insulation attached over impaling pins with sheet metal shields 12" o.c. to 3/4" x 2 1/2" steel angles screw attached to mullions—mullions covered with 6" wide, 1 1/2" thick UL-labeled 1" THERMAFIBER CW FIRESPAN 90 Insulation impaled 12" o.c. on same pins supporting UL-labeled 3" THERMAFIBER CW FIRESPAN 40 Insulation—1 1/2" x 2 1/2" ga. steel angle supporting horizontally embedded in UL-labeled 3" THERMAFIBER CW FIRESPAN 40 Insulation at horizontal splice of blankets—safe-off area between furnace and assembly was sealed with 4" thick UL-labeled THERMAFIBER saffing insulation with saffing clips.—UL Report Dated 1-8-93
1 hr.	Exterior aluminum and steel panel 4'5'x6'9" secured in frame—1 1/2" CW-90 Curtain Wall Insulation—impaling pins and speed clips near center and top.—USG 5-3-71
1. Conducted to establish an end-point for THERMAFIBER insulation in a typical curtain wall assembly, but after 5 hr., 5 min. without failure or physical change (except color), test was terminated to avoid furnace damage.	

UL Report Dated 1-8-93



1-hour



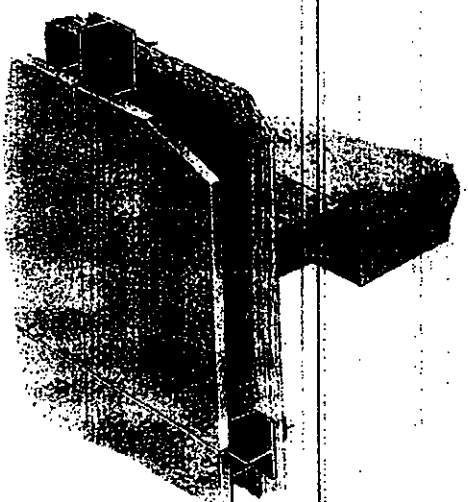
Granite Curtain Wall Fire Containment

3 hr.	Granite spandrel panel, 1 1/2" thick, kerfed top and bottom and inserted in alum extrusions secured to alum mullions at 5' o.c.—recessed 2" CW-90 Foil-Faced Curtain Wall Insulation screw attached with sheet metal shields at 12" o.c. to 1 1/2" x 1 1/2" 20 ga. galv steel angles screw attached to mullions—mullions covered with 6" wide, 1 1/2" thick CW-90 Foil-Faced Curtain Wall Insulation screw attached 12" o.c. 2" safe-off area between furnace and assembly was sealed with 4" THERMAFIBER saffing compression fit and secured with saffing clips modified to 1 1/2" length.—CEG 4-23-90
2 hr.	Granite spandrel panel, 1 1/2" thick, secured to 2 1/2" x 2 1/2" x 1/4" steel angle frame 3'8'x6'6"—2" CW-90 Foil-Faced Curtain Wall Insulation—weld-on pins with speed clips spaced 12" o.c. around frame.—CEG 10-8-81
2 hr.	Granite spandrel panel, 1 1/2" thick, kerfed top and bottom and inserted in alum extrusions secured to alum mullions at 5' o.c.—recessed 2" CW-90 Foil-Faced Curtain Wall Insulation screw attached with sheet metal shields at 12" o.c. to 1 1/2" x 1 1/2" 20 ga. galv steel angles screw attached to mullions—mullions covered with 6" wide, 1 1/2" thick CW-90 Foil-Faced Curtain Wall Insulation screw attached 12" o.c. Safe-off area between furnace and assembly was sealed with 4" Thermafiber saffing secured with saffing clips.—CEG 1-15-90
1 hr.	Granite spandrel panel, 1 1/2" thick, inserted in alum mullion frame 3'7'x6'6"—horizontal metal furring channel between mullions—2 1/2" CW-40 Curtain Wall Insulation behind channel—1/2" SHEETROCK® brand Gypsum Panels, FIRECODE C Core, applied and screw attached to channel.—CEG 7-27-81

CEG 4-23-90; CEG 1-15-90



CEG 7-27-81



Note: Technical art and text describe the test assembly in general.

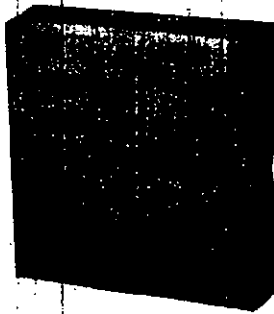
United States Gypsum Company and USG Interiors, Inc. developed fire containing exterior curtain wall systems and continue to be leaders in this field. THERMAFIBER insulation, an integral component in curtain wall systems for more than 20 years, provides fire resistance, sound isolation and thermal performance.

The exterior spandrel component is usually a panel of aluminum, porcelainized steel, structural glass, concrete, marble or granite and backed with insulation for thermal control. To ensure spandrel integrity, the insulation backing must be a positive fire-stopping material.

Three distinct THERMAFIBER curtain wall insulation products turn spandrel panels into fire barriers. Designed for quick mechanical attachment, these noncorrosive mineral fiber insulations function equally well in exterior column covers and in window and track fillers. Blankets are available in three densities: 4 lb./cu. ft. — CW 40; 6 lb./cu. ft. — CW 70; 8 lb./cu. ft. — CW 90.

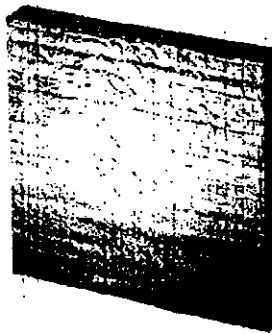
THERMAFIBER CW FIRESPAN curtain wall insulation is available as FIRESPAN-40 and FIRESPAN-90. See test reports on page 12.

Regular Curtain Wall or FIRESPAN Insulation



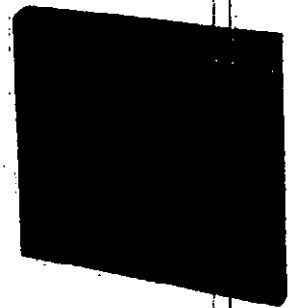
Regular Curtain Wall Insulation comes as semi-rigid blankets of unfaced felt for backing spandrel panels of opaque material where no vapor retarder is needed.

FSP Curtain Wall or FIRESPAN Insulation



FSP Curtain Wall Insulation is the same as regular curtain wall insulation with a tough scrim-reinforced foil facing that serves as a vapor retarder. The facing also adds durability for field installation.

Dark Curtain Wall or FIRESPAN Insulation



Dark Curtain Wall Insulation is similar to regular curtain wall insulation except it has a darker color for backing dark-colored glass spandrel panels. Using dark insulation instead of light insulation improves the look of the assembly. Because the combined effects of color and shading can be unpredictable, a full-scale mock-up of the insulated spandrel is required to ensure desired appearance.

Smoke Chamber Test

Smoke inhalation causes 80% of all fire deaths, and 65% of fire deaths occur away from the fire room. These facts indicate that, while building assemblies perform sufficiently well to contain a fire to the room of origin, many are inadequate to contain smoke and fire gases.

One reason that building assemblies provide adequate fire containment performance is that this performance can be evaluated by a test procedure, ASTM E119. But there is no consensus test method to evaluate the ability of fire walls to contain smoke.

Building assemblies with through-penetrations can be evaluated by test procedure ASTM E814, which measures fire containment when utility services pass between units. However, no standard exists to measure the ability to contain smoke to the fire side of through-penetration assemblies.

In 1990, a new smoke containment test was developed at the USG Corporation Research Center at Libertyville, Illinois. This test evaluates the ability of through-penetration and curtain wall details to contain smoke to the fire side of an assembly.

A new airtight smoke containment test chamber was designed to measure the temperature, air volume and pressure subjected to the penetration details. The chamber was fabricated of stainless steel to form a double-layer open-topped box measuring 25"x25"x16" inside and

28"x28"x17 1/2" outside. The space between the two skins was filled with high-temperature insulation. The box was fitted with thermocouples, an electric resistance heater, and piping and measuring devices for air delivery to the chamber. All openings in the shell were sealed with high-temperature sealant. A shelf angle was installed completely around the interior perimeter so that test specimens placed in the box would divide it into upper and lower chambers. Airtight performance of both chambers was tested and verified.

Three details were constructed to test the condition of a pipe passing through a concrete floor fitted with the THERMAFIBER Fire/Smoke-Stop System. Cured, sealed concrete slabs were cored with 2", 4" and 6" diameter holes. The pipe passing through the holes was surrounded by 2" THERMAFIBER saffing measured from the base of the concrete slab. 2" SMOKE SEAL compound was applied over the saffing and leveled to the top of the slab.

- Test Specimen 1—2" diam. hole passing 1" diam. pipe.
- Test Specimen 2—4" diam. hole passing 2" diam. pipe.
- Test Specimen 3—6" diam. hole passing 2" diam. pipe.

Gas Volume Rate at Maximum Fire Pressure

Test Specimen	Gas Volume Rate of Flow (Standard Cubic Feet per Minute)
THERMAFIBER Fire/Smoke-Stop System	
Test Specimen 1 (2" diam. hole/1" diam. pipe)	0.53
Test Specimen 2 (4" diam. hole/2" diam. pipe)	0.58
Test Specimen 3 (6" diam. hole/2" diam. pipe)	0.70
Curtain Wall System	
Test Specimen 4 (Foil-faced saffing with SMOKE SEAL around perimeter)	0.43
Test Specimen 5 (Unfaced saffing with 1/2" SMOKE SEAL topping)	0.80

Two details were constructed to test the condition of a curtain wall fitted with THERMAFIBER saffing sealed with SMOKE SEAL compound and located a distance from the floor edge. Two cured, sealed concrete slabs were cast, each with a 16"x6" slot. A 16" length of 1" CW 90 foil-faced THERMAFIBER curtain wall insulation was secured along the long edge of the slot.

- Test Specimen 4—Slot was filled with foil-faced THERMAFIBER saffing and installed foil-face up. Interfaces between the saffing and the slab and curtain wall insulation foil face were both caulked with SMOKE SEAL compound.
- Test Specimen 5—Slot was filled with unfaced THERMAFIBER saffing to the top 1/2". Top 1/2" was filled with SMOKE SEAL compound.

Result: Overpressures measured in actual fire conditions range from 10 to 40 pascals (0.0015 to 0.0058 psi) above atmospheric pressure. These overpressures would tend to drive the smoke and fire gases from the fire room to adjoining rooms. Five details were tested in which the overpressures were varied. The following table shows the volume of gas passed through these fire details per unit time at an overpressure of 40 pascals, the maximum overpressure expected in an actual fire.



Smoke chamber test of curtain wall detail.



Smoke chamber test of THERMAFIBER Fire/Smoke-Stop System.

THERMAFIBER Fire/Smoke-Stop System

UL System No. CAJ1020
(formerly UL No. 165)

Ratings: F-2 hr. and 3 hr.
T-0 hr. and 1/4 hr.
(see item 3 below)

1. **Floor or Wall Assembly**—Min. 4 1/2" thick lightweight or normal weight concrete floor. Min. 6 1/2" thick lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks. See Concrete Block (CAZT) category in Fire Resistance Directory for names of manufacturers.

2. **Steel Sleeve**—Optional. Schedule 40 (or heavier) steel sleeves.

3. **Steel Pipe or Conduit**—Nom. 4" diam. (or smaller) electrical metallic tubing, nom. 6" diam. (or smaller) rigid steel conduit or nom. 6" diam. (or smaller) Schedule 10S (or heavier) steel pipe.

The T and F ratings of the system are dependent upon the diam. of the pipe or conduit and annular space between the pipe or conduit and the periphery of the opening as shown in the table below.

Max. Diam. of Steel Pipe or Conduit (in.)	Annular Space (in.)	F Rating (hr.)	T Rating (hr.)
1 1/2	2 1/2	0	3
4	3	0	3
6	4	0	2

4. **Forming Material***—Min. 2 1/2" thick UL-labeled THERMAFIBER safing, friction fitted into the opening.
USG Interiors, Inc.—Type SAFING.

5. **Fill, Void or Cavity Material***—Min. 2" layer of SMOKE SEAL compound that is applied with a caulking gun and installed flush with the top surface.

In concrete block wall assemblies, the forming material (Item 4) shall be centered in the opening depth and the SMOKE SEAL compound shall be installed symmetrically.
USG Interiors, Inc.—Type SMOKE SEAL Compound.

* Bearing the UL Classification Marking

Through-penetration firestop system no. CAJ1020 is in accordance with UL Standard 1479 and ASTM E814. Tests have shown that the system performs under fire-fighting conditions including a 30 psi pressure hose stream. In the ratings for this system, the F rating is based on (1) preventing flame passage through the system and (2) resistance to the hose stream after fire exposure. The T rating is based on (1) resisting flame passage through the system, (2) preventing individual temperature rise on non-fire side of 325°F above ambient temperatures and (3) resisting the hose stream.

UL System No. WL1064

Ratings: F-2 hr.
T-0 hr.

1. **Wall Assembly**—The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs**—Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom. 2" by 4" lumber spaced 16 in. o.c. Steel studs to be min. 2 1/2" wide spaced max. 24" o.c.

B. **Wallboard, Gypsum**—Two layers of 1/2" thick gypsum wallboard, as specified in the individual Wall and Partition Designs.

2. **Pipe or Conduit**—Nom. 3 1/2" diam. (or smaller) Schedule 10 (or heavier) steel pipe, steel conduit or electrical metal tubing (EMT) to be centered within opening. The annular space shall be min. 1/4" to max. 3/4". Pipe or conduit to be rigidly supported on both sides of wall assembly.

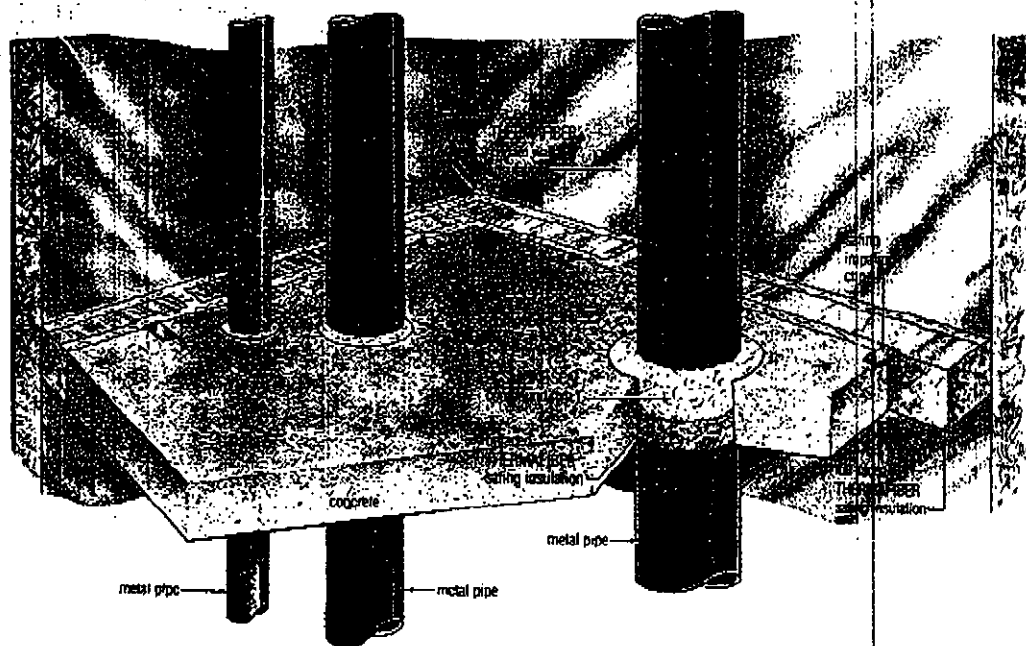
3. **Forming Material***—Min. 2 1/2" thickness of THERMAFIBER safing firmly packed into annular space and stud cavity in area of wall opening as a permanent form. THERMAFIBER safing to be recessed min. 1/4" from both surfaces of wall to accommodate the caulk fill material.

USG Interiors, Inc.—Type SAF.

4. **Fill, Void or Cavity Material***—Caulk—Min. 1/4" thickness of SMOKE SEAL compound applied within the annulus, flush with both surfaces of the wall.

USG Interiors, Inc.—Type SS.

Thermafiber Fire/Smoke-Stop System for Perimeter and Poke Through Protection



THERMAFIBER Fire/Smoke-Stop Systems

PERIMETERS

Comprehensive Protection for Complete Mid- and High-Rise Safety—Perimeters

The first priority in building safety is containment of fire and smoke in the area of origin. For mid- and high-rise buildings, especially, this requires (1) eliminating the "flue opening" between the floor slab and spandrel panel; (2) constructing a fire containment barrier that causes the flames exiting the vision area on one floor to be diverted and cooled so that they cannot ignite combustibles on the floor above and (3) blocking smoke and flames through poke-through openings.

The USG Interiors Fire Smoke-Stop System protects both perimeters and poke-through openings by combining THERMAFIBER saffing insulation, THERMAFIBER curtain wall insulation and THERMAFIBER SMOKE SEAL compound.

How the THERMAFIBER Fire/Smoke-Stop System Works

THERMAFIBER curtain wall and saffing insulations have been used for many years.

However, experience has shown smoke to be a more life-threatening than fire.

The Fire/Smoke-Stop System for perimeter protection combines foil-faced insulation with a specially designed fire and smoke resistant sealant to form an effective barrier to the passage of smoke as well as fire.

At slab perimeters, THERMAFIBER SMOKE SEAL compound is used to seal the foil backing of THERMAFIBER saffing insulation to both the foil backing of THERMAFIBER curtain wall insulation and the floor slab (see photo 1). The sealed foil completely bridges the top of the opening between the slab and the curtain wall, effectively eliminating the passage of smoke through this area.

Unfaced THERMAFIBER saffing insulation can also be used at slab perimeters; it is topped off with a 1/2" layer of SMOKE SEAL compound.

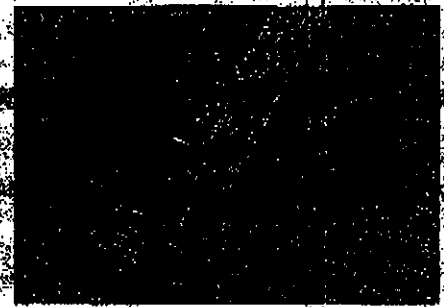
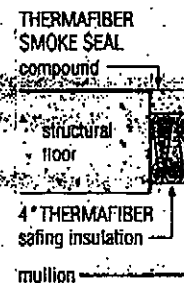


Photo 1 THERMAFIBER Fire/Smoke-Stop System includes foil-faced curtain wall and saffing insulations plus THERMAFIBER SMOKE SEAL compound to seal all joints.



PENETRATIONS

Comprehensive Protection for Complete Mid- and High-Rise Safety—Penetrations

For poke-through openings in 4" or greater thickness floor slabs, a 2" thickness of unfaced THERMAFIBER saffing insulation is friction fitted into the opening around a metal penetrant and a 2" layer of THERMAFIBER SMOKE SEAL compound is applied on top with a caulking gun or trowel to seal the opening (see photos 2 and 3).

The THERMAFIBER Fire/Smoke-Stop Systems are classified by Underwriters Laboratories, Inc., only as fire-stop systems as No. CAJ1020 (formerly UL165) and as No. WL1064.

For other floor penetrations and wall penetrations requiring a UL classification and meeting E814 parameters, see SA-727, USG Firestop System for Wall and Floor Penetrations. This catalog describes through-penetration USG Firestop Systems constructed of THERMAFIBER saffing insulation and new Firecode compound for UL Systems No. WL1065, WL1063, CAJ 0032, CAJ1081, CAJ 3045, WL-1027, WL-3023, WL-7002, WL-2036, WL-3034, WL-1039, WL-2023 and WL-7001. UL also witnessed a fire test of a construction joint assembly using a USG Firestop Assembly.

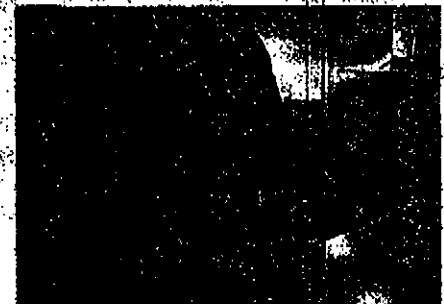


Photo 2 THERMAFIBER saffing provides a fire barrier at poke-through openings.

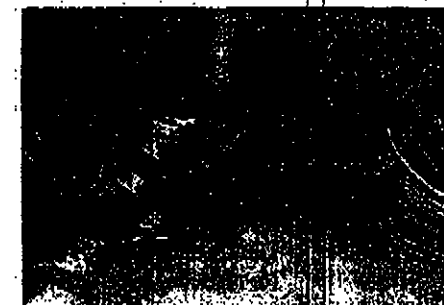


Photo 3 THERMAFIBER SMOKE SEAL compound applied to THERMAFIBER saffing insulation effectively blocks particulate, smoke and air movement. System carries UL Classification CAJ1020 for through-penetration firestops.

THERMAFIBER saffing insulation is classified as forming material for use in through-penetration firestops by Underwriters Laboratories, Inc.

UL Listed 62L3
For Forming
Materials



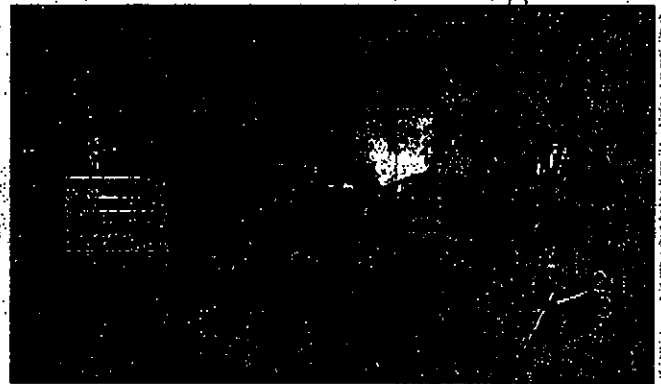
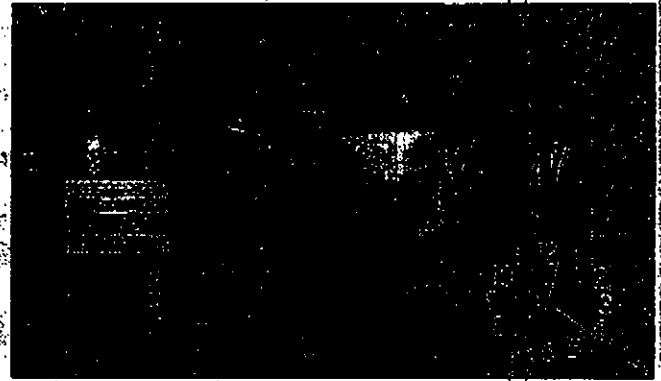
Typical Fire Containment Designs/Tests

In February 1989, USG Interiors tested a curtain wall assembly with an unprotected granite panel to determine whether granite panels need fire protection in curtain wall assemblies. THERMAFIBER safing insulation was used to safe-off the opening between the floor slab and the granite panel. During the fire exposure, numerous cracks formed in the 3-cm (about 1-in.) thick granite panel, beginning at seven minutes into the test. The cracks went completely through the granite, demonstrating that even noncombustible materials like granite require fire protection. Previous tests have shown that THERMAFIBER curtain wall insulation provides this protection and prevents fire from penetrating the curtain wall and spreading to the floor above.

In another curtain wall test, glass spandrel panels were fire tested with glass fiber curtain wall insulation and THERMAFIBER safing insulation. Because of the glass fiber's inability to resist

high temperatures, it began to melt at ten minutes and resulted in the glass spandrel panel shattering at 21 minutes, 45 seconds. The THERMAFIBER safing insulation fell out intact (see photos on page 8). This test demonstrated that, in order to be effective, curtain wall assemblies protected with THERMAFIBER safing insulation must also contain THERMAFIBER curtain wall insulation, which can provide protection at temperatures of 2,000°F.

USG Interiors, Inc. has also conducted fire tests to measure the performance of THERMAFIBER curtain wall insulation against glass fiber and polyurethane insulations for protecting aluminum spandrel panels. Fire tested at temperatures up to 2,080°F, the THERMAFIBER insulation effectively resisted the passage of flame. It kept aluminum spandrel panel temperature well below melt point until the test was terminated more than 5 hours later. Other insulation types failed in 26 minutes or less (see table, opposite).



Typical Fire Containment System Fire test (USG 9-29-83) of typical curtain wall spandrel detail (above) demonstrates weakness in combining glass-fiber curtain wall insulation with THERMAFIBER Safing Insulation; the glass-fiber spandrel insulation melted in 10 minutes; the glass spandrel shattered in 21 minutes, 47 seconds. THERMAFIBER Safing Insulation fell out intact.

Fire-Containment Time Comparison

Insulation Type	ASTM E119 Test Time ⁽¹⁾
High-melt-point	
THERMAFIBER curtain wall insulation	5 hr., 5 min. ⁽²⁾
Low-melt-point	
Glass fiber (6-pcf density)	26 min. ⁽³⁾
Glass fiber (4-pcf density)	12 min. ⁽³⁾
Polyurethane (flame-resistant type)	2 min. ⁽³⁾

(1) Time duration of test to point at which panel is breached, allowing passage of flame and hot gases; test controlled in accordance with ASTM E119 time/temperature curve.

(2) Test of 1/2" thick aluminum curtain wall panel with insulation exposed to fire, witnessed by The Consulting Engineers Group Inc., Feb. 18, 1974. No melting or disintegration after 5 hr., 5 min. When temperature reached 2,080°F, the aluminum panel was still intact. However, to avoid furnace damage, the test was terminated.

(3) Test of 1/2" curtain wall panel with insulation exposed to fire, witnessed by Wiss, Janney, Elstner Associates, Inc., Oct. 18-20, 1972.

For additional information and details on fire containment tests, see Curtain Wall Insulation folder IW-082.

Superior Fire Containment Performance

Performance Tested A full-scale fire test was conducted to compare the effectiveness of THERMAFIBER curtain wall insulation vs. glass fiber curtain wall insulation. The side-by-side test was conducted in a two-story, outdoor testing facility at the USG Corporation Research Center in Libertyville, Illinois.

The structure was divided vertically to form two separate units. Each was faced with identical curtain walls comprised of aluminum spandrel panels and vision glass mounted to aluminum mullion framing. Only the insulation was different. Wood cribs with 7.5 lbs. of Class A combustibles for each sq. ft. of floor area were used to fuel the tests. A synopsis of the test is shown below.

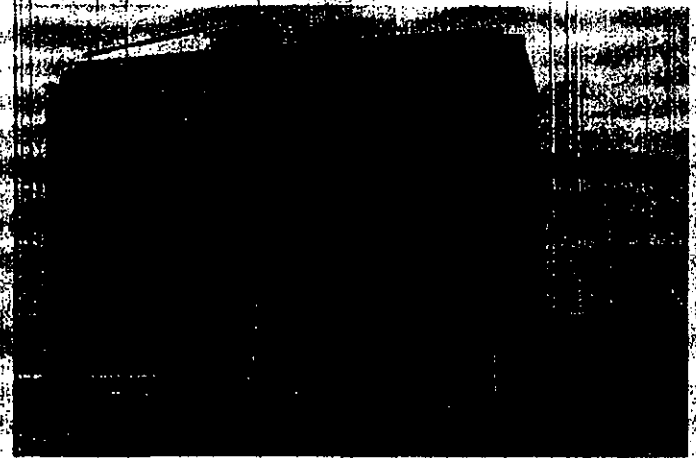
Close-up inspection of the curtain wall assemblies following the test indicated that when the first spandrel panel on the glass fiber unit failed, the glass fiber insulation had already disintegrated, and the wall had been breached at the floor/wall intersection and along the vertical joints of the glass fiber curtain wall insulation. (See photo, bottom left.) As a result of the disintegration of the glass fiber insulation, the safing detail was also compromised. This created openings between the structural floor and the curtain wall and provided another path for the spread of fire. No visible

deterioration or separation took place on the THERMAFIBER curtain wall or safing insulation on the THERMAFIBER insulation unit (see photo, bottom right).

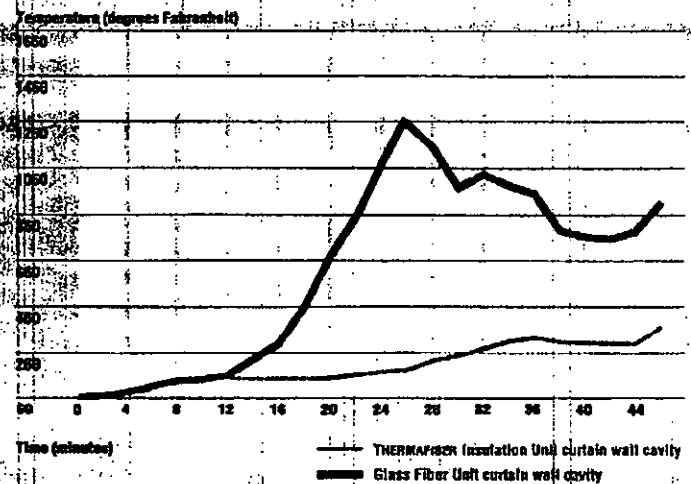
A comparison of the results showed that, on the glass fiber unit, all three aluminum spandrel panels melted, while all of the spandrel panels on the THERMAFIBER insulation unit remained intact and stayed in place. On the glass fiber unit, all three of the window heads melted while none of the THERMAFIBER insulation unit window heads showed any evidence of melting. Glass fiber insulation below the second floor disintegrated and fell away while the THERMAFIBER insulation remained intact below and above the second floor level.

Analysis of the temperatures monitored by the thermocouples also provided an insight into the performance of the two insulation systems (see graph, opposite).

The data generated during this test demonstrated that fire containment can be achieved using THERMAFIBER curtain wall insulation for protection of spandrel panels and supporting structural members and THERMAFIBER safing insulation for perimeter fire-stopping. However, this containment cannot be realized using thermal insulations having low melt points, such as glass fiber.



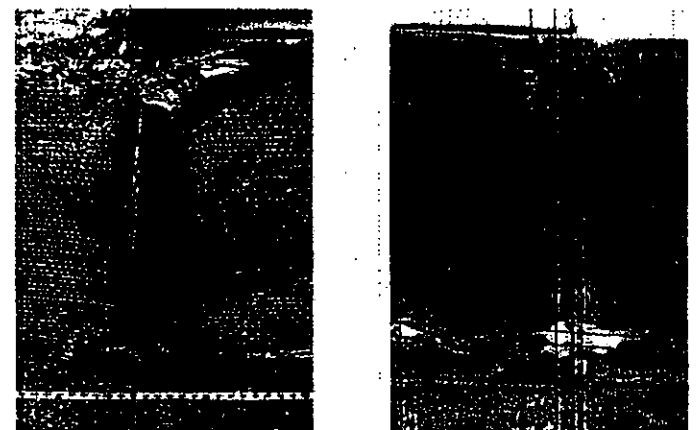
In a comparative test, glass fiber curtain wall insulation disintegrated, dislodging spandrel panel 21 minutes into test (right). There was no visible damage to curtain wall on THERMAFIBER insulation unit (left).



Graph above shows temperatures of thermocouples placed at mid-thickness of curtain wall insulation at second floor levels of both units.

8 min. 50 sec.	First lower-floor vision glass panel shatters.
14 min.	Last lower-floor vision glass panel shatters.
16 min.	Window head melts on glass fiber unit.
20 min.	Aluminum spandrel panels melt on glass fiber unit.
21 min.	Window head on glass fiber unit falls, and middle spandrel panel is dislodged.
24 min.	Middle spandrel panel on glass fiber unit falls, showing partially disintegrated insulation above second floor.
25 min. 20 sec.	Second spandrel panel on glass fiber unit is dislodged.
31 min.	Part of third spandrel panel on glass fiber unit falls away.
46 min.	Test is terminated. No visible deterioration or separation of THERMAFIBER curtain wall insulation took place.

For a detailed report of this fire test, contact your USG Interiors representative for THERMAFIBER Insulations. Contain Fire in Aluminum Curtain Walls. Publication IW-846.



Inspection following test shows disintegration and horizontal breach of glass fiber insulation (left), while THERMAFIBER insulation shows no sign of damage (right).

Superior Fire Containment Products

3

The superior fire protection of THERMAFIBER insulation comes from its composition of mineral fibers with an ability to resist temperatures over 2,000°F (1,100 °C). By contrast, glass fiber insulations begin to disintegrate at about 1,050°F (565 °C).

THERMAFIBER insulations are rated "noncombustible" as defined by NFPA Standard 220. With foil facing and SMOKE SEAL compound, THERMAFIBER insulations also impede the passage of smoke.

THERMAFIBER insulations contain no asbestos. They are moisture-resistant, noncorrosive, nondeteriorating, mildew-proof and vermin-proof. If exposed to damp conditions, THERMAFIBER insulations adsorb less than one percent moisture.

The exceptional durability of THERMAFIBER insulations provides long-term retention of insulating values. Clean, positive mechanical attachment of dry units offers installation convenience and economy in any weather and at any temperature.

SMOKE SEAL compound, a fire-resistant sealant, is used in conjunction with curtain wall and/or saffing insulations to make the THERMAFIBER Fire/Smoke-Stop System the most comprehensive, yet economical, system available for controlling both fire and smoke. It is conveniently applied with standard caulking guns or trowel applied from bulk pails.

Adequate protection against the spread of fire at the curtain wall requires that both curtain wall and saffing insulations provide maximum protection in containing fire. The use of glass fiber insulation alone or in combination with THERMAFIBER insulation simply cannot provide the same level of protection as a total THERMAFIBER system.

THERMAFIBER curtain wall insulations protect spandrel panels and restrict the spread of fire to floors above.

THERMAFIBER saffing insulations fill the opening between the slab perimeter and the curtain wall insulation to inhibit the spread of fire through this opening.

Life-safety goals can only be reached by using high-melt-point products for both curtain wall insulation and saffing. High-melt-point products include mineral fiber. THERMAFIBER saffing insulation and curtain wall insulation but do not include glass fiber insulations. Use of low-melt-point curtain wall insulation in conjunction with saffing may result in failure of the life-safety system.

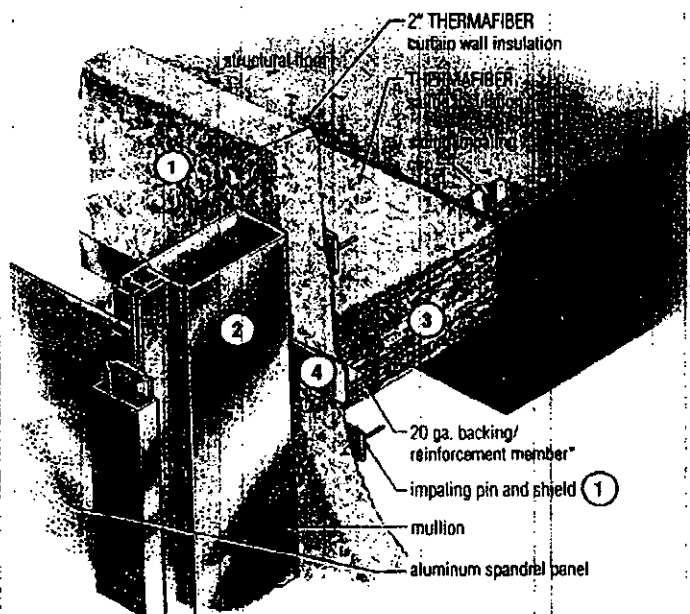
CURTAIN WALL CHECKLIST

The following checklist contains important details that must be included in a THERMAFIBER fire containment system.

1. THERMAFIBER curtain wall insulation must be attached using mechanically secured impaling pins, screws, or other positive mechanical attachment method.
2. Curtain wall insulation must protect aluminum mullions from fire.
3. Saffing insulation is compression fit (min. 1/8" wider than opening) into safe-off area (2"-8") and supported with saffing "Z" clips. When safe-off area is less than 2" wide only saffing insulation may be friction fit and topped off with 1" layer of SMOKE SEAL compound in lieu of saffing clips.

4. A backing/reinforcement member is placed horizontally in back of the curtain wall insulation at saffing line and is mechanically attached horizontally mullion to prevent bowing of curtain wall insulation due to pressure applied from compression fit saffing insulation. Typical reinforcement members include hat channels, "L" angles and "T" angles, which may be obtained from outside fabricators.

THERMAFIBER Life-Safety System Detail Used on Outdoor Fire Test (See page 4)



* may be obtained from outside fabricators

TABLE OF CONTENTS**THERMAFIBER Life-Safety Insulations**

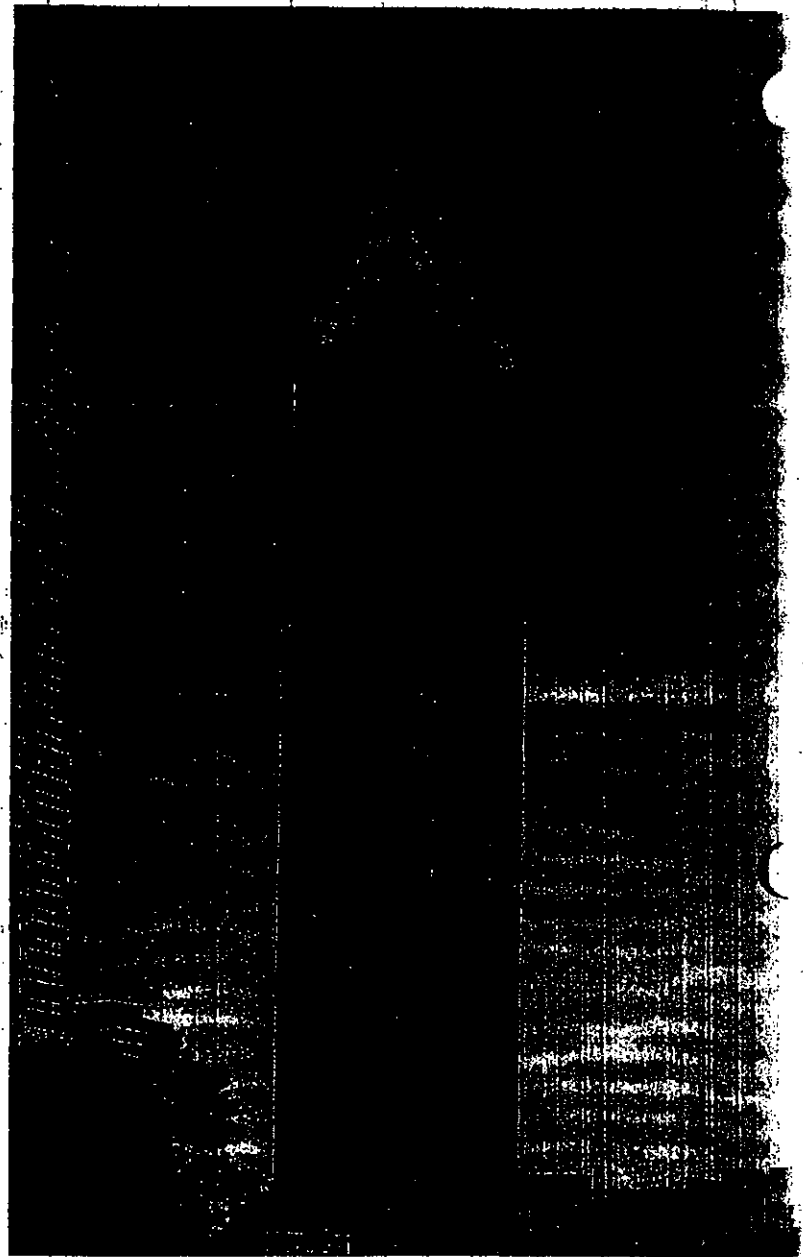
- 3 Superior Fire Containment Products
- 4 Superior Fire Containment Performance
- 6 Fire/Smoke-Stop Systems
- 9 Curtain Wall Insulations
- 13 Safing Insulation
- 13 Kitchen Duct Fireproofing
- 14 Structural Fireproofing

THERMAFIBER Thermal and Sound Control Insulations

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- 17 Thermal Conductivity
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- 18 Specification Compliance
- 18 Good Design Practices
- 19 Architectural Specifications



Above:
NationsBank Plaza
Atlanta, Georgia
Architect: Kevin Roche John Dinkeloo & Associates
Owner: NationsBank and Cousins Properties Inc.

On the cover
Capital Holding Center
Louisville, Kentucky
Architect: John Burger Architects & Associates
Owner: Hines Interests Limited Partnership

THERMAFIBER

Life-Safety Fire Containment Systems

USG Interiors, Inc.



USG

Mammoth Mechanical Corp.
1213 River Ave.
Lakewood, New Jersey 08701
(732) 364-6444
(732) 364-7087

FAX COVER SHEET

TO: BUILDING DEPT. GARY LICKNACK
FIRE Subcode off.

FROM: John

ANSWER REQUESTED ASAP

PLACE ORDER THAT FOLLOWS

PER YOUR REQUEST PLEASE FIND THE FOLLOWING

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MEMBER NJ AND FLA BAR
JERRY J. DASTI
CRAIG L. WELLERSON
CERTIFIED CRIMINAL TRIAL ATTORNEY
GREGORY P. MCGUCKIN

COUNSELLORS AT LAW
THE CLOCK TOWER BUILDING
620 WEST LACEY ROAD
POST OFFICE BOX 1057
FORKED RIVER, NEW JERSEY 08731

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(732) 349-2446
(732) 295-3000

FACSIMILE NUMBER
(609) 971-7093

ROBERT E. ULAKY
MEMBER NJ AND PA BAR
ELIZABETH LARKINS MACKOLIN
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PLEASE REFER TO:

February 5, 1998

Outdoor Advertising Systems vs.
Brick Township Zoning Board

SENT VIA FACSIMILE AND REGULAR MAIL

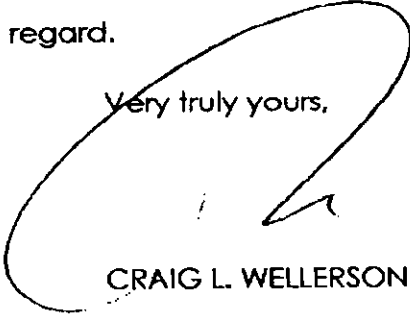
Ms. Christine Papa, Secretary
BRICK TOWNSHIP ZONING BOARD
401 Chambersbridge Road
Bricktown, New Jersey 08723

Dear Ms. Papa:

With regard to the above captioned matter, I request that this application be extended to April 16th, 1998. Please be advised we will waive the statutory time limitations.

Thank you for your courtesy in this regard.

Very truly yours,


CRAIG L. WELLERSON

CLW/nla
cc: Bill Holle

DASTI, MURPHY & WELLERSON, P.C.
620 West Lacey Road
Post Office Box 1057
Forked River, New Jersey 08731

FAX SHEET

DATED: 2/5/98

NO. OF PAGES INCLUDING COVER SHEET: 2

TO: Christine Papa

PHONE #:

FAX #: 732-262-8954

FROM: CRAIG L. WELLERSON

PHONE #: 609-971-1010

FAX #: 609-971-7093

CLW/na

REMARKS:

☐ URGENT

☒ FOR YOUR REVIEW

☐ REPLY ASAP

☐ PLEASE COMMENT

Re: Outdoor Advertising Application

(NLA)

TABLE OF CONTENTS**THERMAFIBER Life-Safety Insulations**

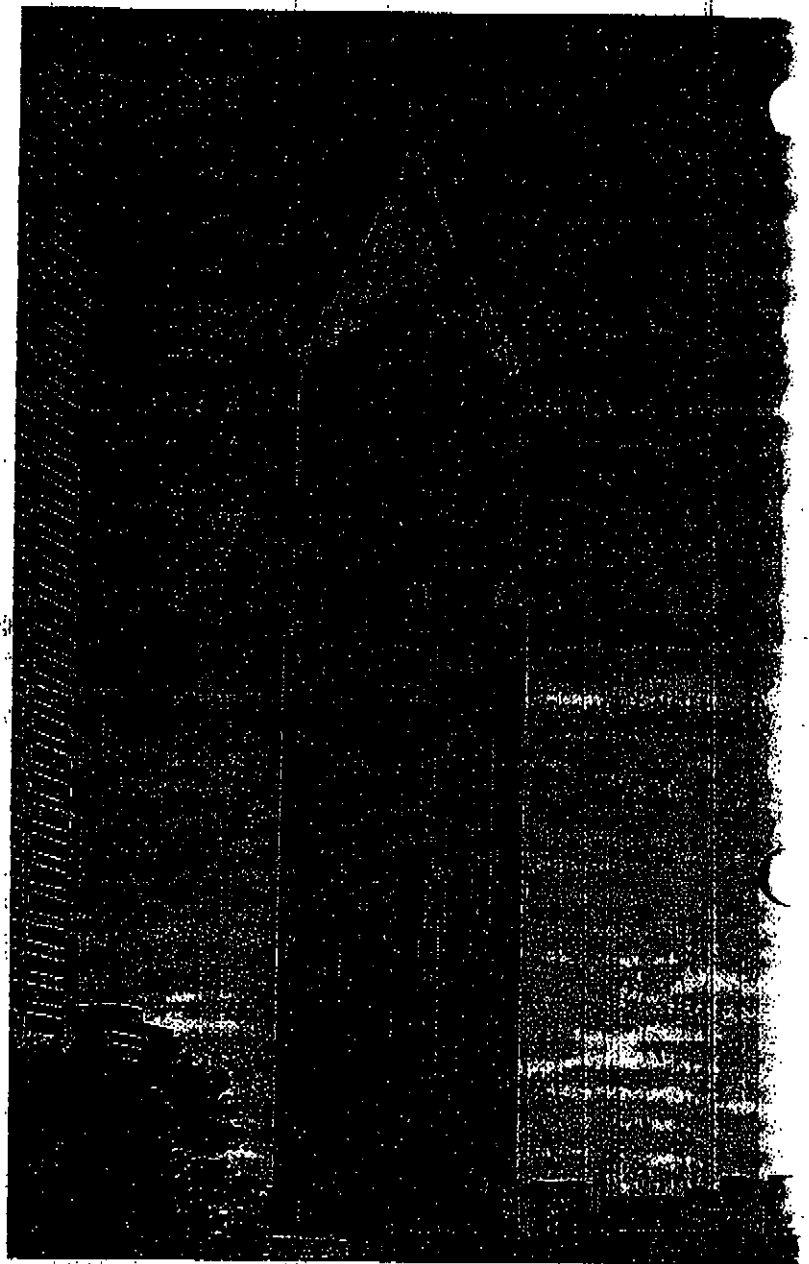
- 3 Superior Fire Containment Products
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**Above:**

*NationsBank Plaza
Atlanta, Georgia
Architect: Kevin Roche John Dinkeloo & Associates
Owner: NationsBank and Cousins Properties Inc.*

On the cover

*Capital Holding Center
Louisville, Kentucky
Architect: John Burger Architects & Associates
Owner: Hines Interests Limited Partnership*

THERMAFIBER

Life-Safety Fire Containment Systems

S A 7 0 7

USG Interiors, Inc



USG

Mammoth Mechanical Corp.
1213 River Ave.
Lakewood, New Jersey 08701
(732) 364-6444
(732) 364-7087

FAX COVER SHEET

TO: BUILDING DEPT. GARY LICKNACK
FIRE Subcode off.

FROM: John

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FROM MAMMOUTH MECHANICAL CORP. TO

2621328 P.02

THERMAFIBER

**Life-Safety Fire
Containment Systems**

USG Interiors, Inc.



USG

02-05-1998 10:00AM FROM MAMMOUTH MECHANICAL CORP. TO

2621328 P.03

17

Thermal Resistance Values* (R = I/C) For use in calculating heat transmission coefficients (u)

Insulation Values

Blanket Thickness	SAFB	Product & R Value	
		FS-25 (Foil Faced)	FS-15 (Unfaced)
8"	22	22	22
5 1/4"	19	19	19
3 1/4"	13	13	13
3"	11	11	11
2"	7.41	N/A	7.41
1 1/2"	5.5	N/A	5.5
1"	4	N/A	4

*Based on listings in ASHRAE Handbook of Fundamentals (1985).

Material Values

3/4" insulating sheathing	2.06	asphalt shingle roofing	0.44
1/2" insulating sheathing	1.52	1/2" gypsum panels	0.45
1/2" gypsum sheathing	0.45	1/2" plaster base	0.32
1" extruded polystyrene insulation**	5.00	1/2" studded plaster	0.09
1/4" plywood	0.62	1/2" plaster with light wt. aggregate	0.32
1/2" plywood	0.93	portland cement with aggregate (per in.)	0.20
1/2" hardboard	0.34	4" common brick	0.80
1/2" softwood (pine)	0.94	4" face brick	0.44
1/2" hardwood	0.68	8" clay tile	1.00
1" x 8" wood drop siding	0.79	8" concrete block with sand aggregate	1.11
1" x 10" beveled wood siding	1.05	vapor-permeable felt	0.06
exterior stucco (1" thick)	0.20	vapor retarder plastic film	negl.
1" built-up roofing	0.33	carpet and fiber pad	2.08
wood shingle roofing	0.94	floor tile—asphalt, vinyl	0.05

(1) Thermal resistance for extruded polystyrene insulation at 30° F mean temperature is 5.4; data based on certified test.

Air Space Values*

	Type of Surface	
	Non-Reflective	Reflective
Heat flow up		
1" space	0.75	1.57
1 1/2" space	0.77	1.66
3 1/2" space	0.84	2.01
Heat flow down		
1 1/2" space	0.91	2.54
1" space	1.02	3.52
3 1/2" space	1.22	8.17
Heat flow horizontal		
1" space	0.90	2.46
1 1/2" space	0.94	2.77
3 1/2" space	0.91	2.55

*Based on 60° F mean temperature and 30° F temperature differential.

Air Surface Values

	Type of Surface	
	Non-Reflective	Reflective
Inside, heat flow up (still air)	0.61	1.32
Inside, heat flow down (still air)	0.92	4.56
Inside, heat flow horizontal (still air)	0.68	1.70
Outside, (15 mph wind)	0.17	—
Outside, (7.5 mph wind)	0.25	—

Thermal Conductivity (according to ASTM C518)

Product	Thickness (in.)	Thermal Conductivity (k)	Thermal Resistance (R)
CW FireSPAN 40	0.25	0.25	4.0
CW FireSPAN 20	0.25	0.25	4.0
Safing	0.25	0.25	4.0
Mineral Fireproofing	0.23	0.23	4.3
SAFB	0.25	0.25	4.0
SAFR	0.27	0.27	3.7
All other FS-15	0.27	0.27	3.7
FS-25	0.27	0.27	3.7

(1) Applies to both standard color and dark curtain wall insulation.

(2) R = thickness ÷ k.

(3) U value shown is for insulation only. However, in practice U values represent the overall heat transmission of all components in an assembly (U = 1 ÷ Total R).

Surface Burning Characteristics (According to ASTM E84)

Product Designation	Flame Spread	Smoke Developed
CW Regular (Unfaced)	15	0
CW Foil-Faced	25	0
CW FireSPAN (Unfaced)	15	0
CW FireSPAN (Foil-Faced)	25	0
Safing Regular (Unfaced)	15	0
Safing Foil-Faced	25	0
Mineral Fireproofing (Unfaced)	15	0
Mineral Fireproofing Foil-Faced	25	0
FS-15 Blankets	15	0
SAFB	15	0
SMOKE SEAL Compound	5	0

All products have a Class A interior finish rating per NFPA 101, life safety code.

(1) Applies to both standard color and dark curtain wall insulation.

Fire Resistance Rated noncombustible as defined by NFPA Standard 220 when tested according to ASTM E136.

Product Density

Product Designation	Nom. Density — pcf	Approximate Density Tolerances	Min. Thick.	Application Method
CW 40	4.0	±0.5	0.5 ± 1.0	2"
CW 20	6.0	±0.75	0.75 ± 2.0	1 1/2"
CW 90	8.0	±1.0	1.0 ± 2.0	1"
Safing	4.0	±0.5	0.5 ± 1.0	2"
Mineral Fireproofing	9.0	±1.5	1.5 ± 3.0	1 1/2"
SAFR	2.5	±0.5	0.5 ± 1.0	1"
All other FS-15	2.5	±0.5	0.5 ± 1.0	1 1/2"
FS-25	3.0	±0.5	0.5 ± 1.0	3"

(1) Applies to both standard color and dark curtain wall insulation.

(2) On package weight basis.

02-05-1998 10:01AM FROM MAMMOUTH MECHANICAL CORP. TO

2621328 P.04

13

THERMAFIBER safing insulation fills the void between slab edge and curtain wall insulation to

a supplementary backing/reinforcement member must be installed to prevent compression

THERMAFIBER Safing Impaling Clip

through openings (See F.I. 57 Smoke-Stop System page 5.)

insulation system components include 4" thick by 24" wide blankets of insulation and specially designed safing impaling clips. Blankets are field cut and installed with safing clips or wire support brackets. Strips of insulation must be cut min. 1/8" wider than the opening to ensure a compression fit.

When safing is installed between the floor slab and curtain wall insulation which

attention. An assembly was constructed to simulate a 6" opening between the slab and the exterior wall. The opening was filled with 4" thick, 4-lb./cu. ft. density THERMAFIBER safing insulation covered top and bottom with steel plates. This assembly produced a rating of STC 49, outperforming an assembly where the opening was filled with 2-lb./sq. ft. lead. Filling the space with concrete produced an assembly rating of STC 54

THERMAFIBER safing insulation is the Designs U900D, U900J, U900K, U900X, and U900Y.



THERMAFIBER safing insulation is cut wider than the opening to ensure compression fit. Insulation

THERMAFIBER kitchen duct fireproofing is applied around the 16-ga. steel duct, impaled on mechanically attached pins and secured with sheet metal shields. Tested in accordance with Section 64.67(6) of the

surface burning characteristics



02-05-1998 10:05AM

FROM MAMMOUTH MECHANICAL CORP. TO

2621328 P.01

19

Part 1: General

1.1 Scope—Specify to meet project requirements.

1.2 Qualifications

All materials, unless otherwise indicated, shall be supplied by USG Interiors, Inc. or United States Gypsum Company (THERMAFIBER sound attenuation fire blankets) and shall be installed according to current printed directions.

1.3 Delivery and Storage of Materials

All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure to the elements. Damaged or deteriorated materials shall be removed from the premises.

1.4 Design Conditions

THERMAFIBER (curtain wall) (safety) (Fire/Smoke-Stop System) (mineral fireproofing) (sound attenuation fire blanket) (FS-15) (FS-25) Insulation shall be (1) (2) (3) (4) (5)-hr. fire-tested under simulated field conditions using ASTM E119 guidelines.

Part 2: Products**2.1 Life-Safety Insulation****2.1.1 Curtain Wall**

THERMAFIBER mineral fiber curtain wall insulation, (CW-40)(CW-70)(CW-90), () thick, () wide, () long, type [(regular)] [dark] color, unfaced, non-vapor retarding) (FSP, scrim-poly reinforced foil-facing vapor retarder). THERMAFIBER CW FIRESPAN (40) (90), () thick, () wide, () long, UL-labeled.

2.1.2 Siding

THERMAFIBER mineral fiber siding insulation, regular color, (unfaced) (vapor retarding foil-faced) with galvanized steel siding clips, UL-labeled.

2.1.3 Sealing Compound

THERMAFIBER SMOKE SEAL compound, smoke-resistant, in (30-oz. cartridges) (5-gal. pails).

2.2 Fireproofing Insulation**2.2.1 Structural**

THERMAFIBER mineral fiber fireproofing, 9-lb./ft.³ density, (unfaced) (foil-faced), (1) (2) (2 1/2) inches thick, 24" wide by (48) (60) inches long.

2.2.2 Kitchen Duct

THERMAFIBER mineral fiber fireproofing, 9-lb./ft.³ density, (foil-faced), 2 1/2" thick, 24" wide by 48" long.

2.3 Sound Insulation

THERMAFIBER sound attenuation fire blankets, (1) (1 1/2) (2) (2 1/2) (3) inches thick, (16) (24) (26) inches wide, 48" long, unfaced.

2.4 Thermal Insulation

THERMAFIBER commercial blankets, (1) (1 1/2) (2) (3) (3 1/2) (5 1/4) (6) inches thick, (15) (16) (23) (24) inches wide, () long, Type (FS-15, unfaced) (FS-25, faced).

Part 3: Execution**3.1 Curtain Wall Insulation or Fire-SPAN Application**

Mechanically attach CW insulation to inside of spandrel panels with fasteners approved by the architect.

3.2 Curtain wall insulation must protect aluminum Mullions from fire.

3.3 A backing/reinforcement

member must be placed horizontally in back of the curtain wall insulation to prevent bowing of curtain wall insulation due to pressure applied from compression fit siding insulation. Typical reinforcement members include hat channels, "L" and "T" angles.

3.4 Siding Insulation Application

Install THERMAFIBER siding insulation (of proper size, 2"-8" max opening, in safe-off area foil side up between THERMAFIBER curtain wall insulation and floor slabs), on siding clips spaced as needed, 24" o.c. max. (3 clips per 4" batt), leaving no voids. Cut siding wider (1/4" min.) than opening to ensure compression fit. Compress or install on wire hangers in all floor slab openings, to seal completely around telephone cables, ducts, piping or other utilities.

3.5 Fire-Resistant Sealant Application

Seal all joints with 3/4" bead of THERMAFIBER SMOKE SEAL compound. Top off siding insulation in all poke-through openings with minimum 2" depth of THERMAFIBER SMOKE SEAL compound.

3.6 Sound Attenuation Fire Blanket Application

Install THERMAFIBER sound attenuation fire blankets in stud cavities of sound-rated partitions and where required to achieve fire-rated design. Friction fit securely between studs. Butt ends of blankets closely together and fill all voids.

3.7 Ceiling Overlayment Application

Install THERMAFIBER sound attenuation fire blankets over ceiling panels (1 1/2" single or double layer over entire ceiling) (3" over entire ceiling) extending 48" beyond all partitions and tightly fit around all grillage, hangers and other vertical penetrations.

3.8 FS-15 Application

Position THERMAFIBER FS-15 commercial blanket vertically against wall surface. Hold in place with a Z furring channel according to directions. Position next blanket so that it abuts attached furring member, and hold in place with next furring channel.

3.9 FS-25 Application

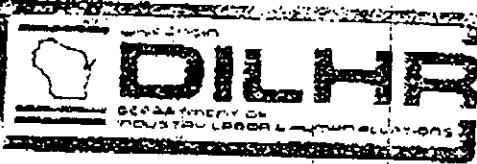
Install THERMAFIBER FS-25 commercial blankets in stud cavities where specified. Friction fit securely between studs. Install insulation between floor joists and support blankets with wire mesh, woven tie-wire or flexible metal rods. Butt ends of blankets closely together and fill all voids. For poke-through penetrations, install THERMAFIBER siding insulation in opening.

02-05-1998 10:06AM
1-17-1997 9:00AM

FROM MANMOUTH MECHANICAL CORP. TO
FROM THERMAFIBER LLC 8002947076

2621328 P.02

P. 2



Approval #

890010-1
(Replaces 83010)

Safety & Buildings Division
201 E. Washington Ave.
P.O. Box 7969
Madison, WI 53707

Wisconsin Building Material Approval

Material

USG Thermafiber Felt with FSP Facing

Manufacturer

USG Interiors, Inc.
101 South Wacker Drive
Chicago, IL 60606

APPROVAL

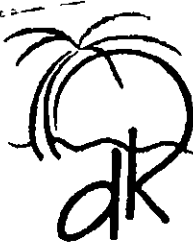
The USG Thermafiber Felt manufactured by USG Interiors, Inc. has been evaluated for conformance to the 1986/87 edition of the Wisconsin Administrative, Building and Heating, Ventilating and Air Conditioning Code, Chapters ILHR 50-64. It is approved for use as an insulating material meeting the requirements established in Section ILHR 64.67 (5)(f) 1. and 2. of the Wisconsin Administrative Code and for a two-hour kitchen exhaust duct material described in Section ILHR 64.67 (5)(f) 2.

LIMITATIONS OF APPROVAL

This approval is valid as long as the Thermafiber Felt is installed according to this approval.

This approval number must be provided when building plans proposing the use of this material are submitted for review.

This approval is valid until December 31, 1994, unless a manufacturing change is made to the product or a reexamination of the approval is deemed necessary by the department.



design kontraktors, inc.
general contractors CGC 054344

Transmittal

project: TGI Friday's Restaurant
address: 709 Route 70 ~ Brick, NJ 08723

project #: 97062
date: 2-5-98

to: Gary Licknick Fire Sub Code

sent via: Ex 262-8954

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() IN ACCORDANCE WITH YOUR REQUEST _____

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(☒) REVIEW () RECORD () USE
() _____

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- () DRAWINGS () SHOP DRAWINGS PRINTS () PROPOSAL
() SPECIFICATIONS () DRAWING REPRODUCIBLES () INVOICE
() CHANGE ORDER () PRODUCT LITERATURE () OTHER

COPIES	DESCRIPTION	DATED
5	USG Thermafiber Felt with FSP Facing	

REMARKS

If you have any questions please call us. 732-262-0937 Ex 732-262-1328

Please Review and call me if this product is acceptable for wrapping the Exhaust Duct

CC: file _____

SIGNED: _____

Robert Franklin

1701 EAST ATLANTIC BLVD. • POMPAHO BEACH, FLORIDA 33060 • PHONE: 954/941-3329 • FAX: 954/941-3335

E-MAIL: dkgroup@safari.net

=====

S U M M A R Y

O F

H Y D R A U L I C

C A L C U L A T I O N S

F O R

T.G.I. FRIDAY'S

Chambersbridge Rd. & Rt. 70E Brick, NJ 08723-Job No:97114

=====

Submitted By

Mon-Oc Fire Protection - 1118 River Avenue - Lakewood, NJ 08701

=====

Design Specifications	Water Supply Information	System Demand
Density : 0.150	68.00 psi @ 0.00 gpm	44.84 psi
Design Area: 300.00	61.00 psi @ 2410.00 gpm	@ 75.2 gpm
		+ 250.0 gpm Hose
Total Demand: 325.2 gpm @ 44.84 psi		
System safety factor: 22.98 psi		

Notes: _____

FRICION LOSS THROUGH 1/2" WATTS #909 RPZ BACKFLOW PREVENTER ≈ 11 PSI.

TOTAL DEMAND = 325.2 GPM @ 55.84 PSI

SAFETY FACTOR = 11.98 PSI.

Carl A. McNeal
1-29-98

List of Fitting Abbreviations

Example: "E2TC" = one Std. Elbow, two Std. Tee, and one Check Va

Code:Description	Code:Description	Code:Description	Code:Description
A : Alarm Va	H : 45 Elbow	O :	V :
B : Butt'flyVa	I :	P :	W :
C : Check Va	J :	Q :	X :
D : DryPipeVa	K :	R :	Y :
E : Std. Elbow	L : LongTurnEl	S :	Z :
F : Deluge Va	M :	T : Std. Tee	
G : Gate Va	N :	U :	

Summary of Sprinkler and Hose Flows

Job No:97114

T.G.I. FRIDAY'S

Design density: .15

Supplied flow and pressure is based on 44.84 psi available at supply
(67.83 psi is actually available)

Ref. Pt.	PRESSURE			K Factor	FLOW		Percent Excess	Ref. Pt.
	Pt	Pv	Pn		Actual	Minimum		
=====	=====	=====	=====	=====	=====	=====	=====	=====
S01	7.13		7.13	5.62	15.0	15.0	0.0%	S01
S02	7.60		7.60	5.62	15.5	15.0	3.3%	S02
S03	15.32		15.32	5.62	22.0	14.9	47.7%	S03
S04	16.24		16.24	5.62	22.6	14.9	51.7%	S04

Flow and Pressure Summary

Job No:971114

T.G.I. FRIDAY'S

Elev. ft.	REF. POINT	Flow gpm	Pt psi	Pf psi	Pe psi	Pt psi	REF. POINT	Elev. ft.	F R I C T I O N L O S S				C A L C U L A T I O N S				Velocity fps
									Length	Fitting	Length	Total	Pf/ft	Diam	C	Flow	
10.00	L01 <<	30.5 <<	8.09	9.95	0.00	18.04	L02	10.00	26.00	2ET	9.00	35.00	0.284	1.049	120	30.5	11.3
10.00	L01 >>	15.0 >>	8.09	-0.96	0.00	7.13	S01	10.00	10.50	E	2.00	12.50	0.077	1.049	120	15.0	5.6
10.00	L01 >>	15.5 >>	8.09	-0.49	0.00	7.60	S02	10.00	1.00	T	5.00	6.00	0.081	1.049	120	15.5	5.7
10.00	L02 <<	75.2 <<	18.04	4.36	0.00	22.40	M01	10.00	5.00	2E	6.00	11.00	0.396	1.380	120	75.2	16.1
10.00	L02 >>	22.0 >>	18.04	-2.72	0.00	15.32	S03	10.00	7.50	2T	10.00	17.50	0.155	1.049	120	22.0	8.1
10.00	L02 >>	22.6 >>	18.04	-1.80	0.00	16.24	S04	10.00	1.00	2T	10.00	11.00	0.164	1.049	120	22.6	8.4
10.00	M01 <<	75.2 <<	22.40	3.74	3.47	29.61	M02	2.00	10.00	2E2G	10.00	20.00	0.187	1.610	120	75.2	11.8
2.00	M02 <<	75.2 <<	29.61	12.18	3.04	44.84	M03	-5.00	250.00	3EGT	39.29	289.29	0.042	2.009	150	75.2	7.6

Path No:1 Remote to Supply

Principal path

Feeds Path:2 at Pt:L01, Path:3 at Pt:L02, Path:4 at Pt:L02

```

=====
Ref Elev.  Pressure (psi)  K   Flow  (gpm)  Veloc Diam. Actual Fitting Fitting Total Frict.Loss  Elev. Loss  Next Ref
Pt.  ft.    Pt  Pv    Pn Factor Added  Total  fps   in.  Length Summary Length Length per.ft Total  Psi  (ft.)  Press Pt.
=====
                                           (C=120)
S01 10.00  7.13          7.13 5.62  15.0   15.0  5.56 1.049 10.50 E      2.00  12.50 0.077 0.96              8.09 L01
L01 10.00  8.09          8.09      15.5   30.5 11.30 1.049 26.00 2ET      9.00  35.00 0.284 9.95              18.04 L02
L02 10.00 18.04         18.04      44.7   75.2 16.08 1.380  5.00 2E      6.00  11.00 0.396 4.36              22.40 M01
M01 10.00 22.40         22.40      75.2 11.81 1.610 10.00 2E2G     10.00  20.00 0.187 3.74 3.47 ( 8.00 )29.61 M02
                                           (C=150)
M02  2.00 29.61         29.61      75.2  7.59 2.009 250.00 3EGT     39.29 289.29 0.042 12.18 3.04 ( 7.00 )44.84 M03
M03 -5.00 44.84
=====

```

Path K-Factor = 11.23

Path No:2 Arm Piece

Fed by path No.1

```

=====
Ref Elev.  Pressure (psi)  K   Flow  (gpm)  Veloc Diam. Actual Fitting Fitting Total Frict.Loss  Elev. Loss  Next Ref
Pt.  ft.    Pt  Pv    Pn Factor Added  Total  fps   in.  Length Summary Length Length per.ft Total  Psi  (ft.)  Press Pt.
=====
                                           (C=120)
S02 10.00  7.60          7.60 5.62  15.5   15.5  5.74 1.049  1.00 T      5.00   6.00 0.081 0.49              8.09 L01
L01 10.00  8.09
=====

```

Path K-Factor = 5.45

Path No:3 Arm Piece

Fed by path No.1

```

=====
Ref Elev.  Pressure (psi)  K   Flow  (gpm)  Veloc Diam. Actual Fitting Fitting Total Frict.Loss  Elev. Loss  Next Ref
Pt.  ft.    Pt  Pv    Pn Factor Added  Total  fps   in.  Length Summary Length Length per.ft Total  Psi  (ft.)  Press Pt.
=====
                                           (C=120)
S03 10.00 15.32         15.32 5.62  22.0   22.0  8.15 1.049  7.50 2T      10.00  17.50 0.155 2.72              18.04 L02
L02 10.00 18.04
=====

```

Path K-Factor = 5.18

Path No:4 Arm Piece

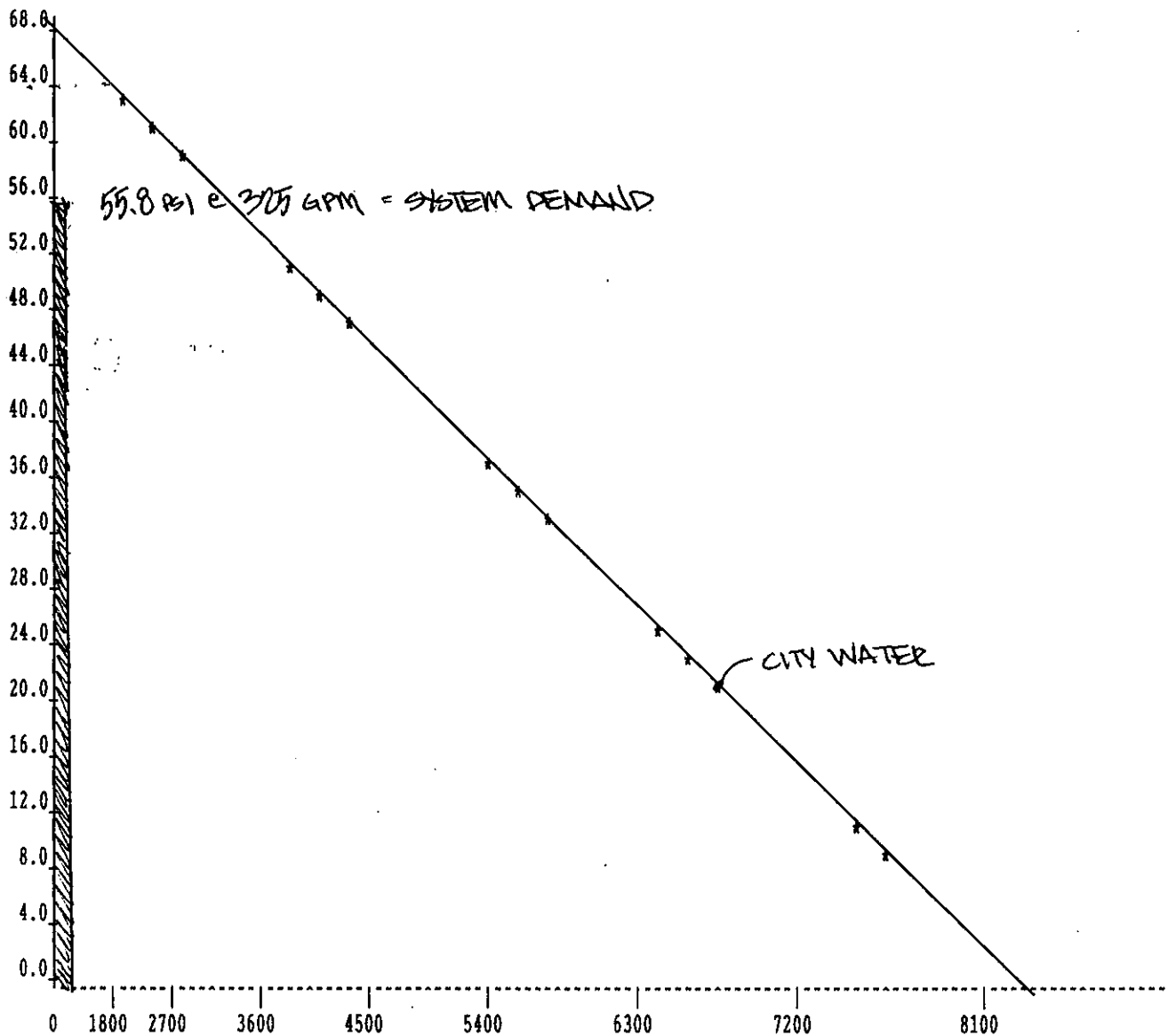
Fed by path No.1

```

=====
Ref Elev.  Pressure (psi)  K    Flow  (gpm)  Veloc Diam. Actual Fitting Fitting Total Frict.Loss  Elev. Loss  Next Ref
Pt. ft.    Pt  Pv    Pn  Factor Added  Total  fps   in.  Length Summary Length Length per.ft Total  Psi  (ft.)  Press Pt.
=====
                                           (C=120)
S04 10.00 16.24      16.24  5.62  22.6    22.6  8.39 1.049  1.00 2"      10.00  11.00 0.164  1.80                18.04 L02
L02 10.00 18.04
=====

```

Path K-Factor = 5.33



Pressure vs. Flow
 68.00 0.00
 61.00 2410.00
 0 8236.57

T.G.I. FRIDAY'S
 Chambersbridge Rd. & Rt. 70E
 Brick, NJ 08723

Job Number: 97114
 1/27/98

CAM

BRICK TGIF TEMPERARY C.O.

DATE: 4/17/98
TO: JOESPH CURIAZZA, CONSTRUCTION OFFICIAL
FROM: MIKE METZ
RE: BRICK TGIF 705 HIGHWAY 70 BLOCK 673 LOT 12

DEAR MR.CURIAZZA

AS YOU KNOW WE ARE OPERATING UNDER A TEMERARY C.O. THAT WAS ISSUED PENDING ENGINEERING AND BOARD APPROVAL OF OUR MINOR SITE PLAN MODIFICATION. AT THIS POINT ALL APPLICATIONS HAVE BEEN MADE AND WE ARE AWAITING REVIEW AND APPROVAL OF THE PLANNING BOARD.

AT THIS TIME WE ARE REQUESTING A 90 EXTENTION OF THE EXISTING TEMPERARY C.O. UNTIL ALL APPROVALS ARE OBTAINED. I CAN BE REACH AT 717-674-8737 IF YOUR HAVE ANY QUESTION. MIKE FOWLER HAS ALSO BEEN VERY HELPFUL IN THIS PROCESS AND IS UP TO SPEED WITH ALL DEVELOPMENTS TO DATE SHOULD YOU HAVE ANY QUESTIONS I CANNOT ANSWER.

THANK YOU IN ADVANCE FOR YOUR HELP AND AGAIN FEEL FREE TO CONTACT ME AT ANYTIME THE NUMBER ABOVE HAS VOICE MAIL WHICH I CHECK ON AN HOURLY BASIS 7 DAYS A WEEK.

1496

SOUTH JERSEY PUBS INC.

STORE ACCOUNT
2 WOODLAND DRIVE
DALLAS, PA 1861260-46660
313PAY
TO THE
ORDER OF

Township of Brick

10/31 19 97

\$ 897.50

Eight hundred & forty seven dollars 50/100

DOLLARS

Commonwealth Bank

a division of
Meridian

FOR

Tom S. Guler

⑈001496⑈ ⑆031300465⑆ ⑆5194⑈3481⑈

Lee Hartman
Mary Lou Powner
Michael A. Thulen

To: Scott M. Pezarras, Chief Financial Officer

From: Carol A. Wolfe, Affordable Housing Administrator

Re: Affordable Housing Fees

Date: 10-31-97

Business/Development: TGIF

Owner/Applicant: South Jersey Pubs Inc

Property Address: 705 Route 70

Block: 672 Lot: 12

DEPOSIT RECEIVED

Mandatory Development Fee

Commercial

Residential

Inclusionary Development Fee

Check Number 1496

Estimated Fee \$ ~~1695.00~~ 1695.00

Deposit Amount \$ 847.50

FINAL PAYMENT PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY

Mandatory Development Fee

Commercial

Residential

Inclusionary Development Fee

Check Number: _____

Final Fee: \$ _____

Less Deposit: \$ _____

Final Payment \$ _____

FOR DEPOSIT ONLY-AFFORDABLE HOUSING TRUST ACCOUNT # 4880071456

Collection of said fees as authorized by Township Ordinance
354-2C-93, is pursuant to N.J.S.A. 52:27D-301 et seq. And N.J.A.C.
5:92-18 et seq.

Received in Treasurer's Office by:

Signature Michael A. ThulenDate 10/31/97

AHBT PRELIMINARY APPROVAL

Applicable to Ordinance 728-92
This form must be handed in with permit application or a permit will not be issued.

TOWNSHIP OF 'BRICK

705 Hwy 20
CHAMBERS BRIDGE ROAD, ROUTE 10 672 12
Work Site Address Block Lot

METZ ENTERPRISES, 2 WOODLAND DRIVE, DALLAS, PA. 18612
Owner's Name, Address, Phone (917) 675.8100

DK CONTRACTORS, 1701 EAST ATLANTIC BLVD, ROMANO BCH, FL 33060
Contractor's Name, Address, Phone (954) 941-3329

Construction EXISTING BUILDING : INTERIOR REMODELING
Describe type (Single -family home, etc.)

Demolition INTERIOR WALLS, GLASS ENCLOSURE
Describe type (Structure, roof, siding, etc.)

Describe type and estimated quantity of material

Name, address and phone of party responsible for removal of debris:

UNKNOWN AT THIS TIME WILL SUBMIT

Size of dumpster:

Destination of discarded debris:

Hauler's DEP Permit No.:

**Note: Any recyclable material, including, but not limited to:
corrugated cardboard, vegetative waste, concrete, asphalt, clean wood,
etc., must be delivered to an approved recycling center, and receipts
provided to the Township of Brick along with tipping receipts for
non-recyclable material.

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 or recycled in
accordance with all applicable State and Federal laws and regulations, and
that I have been authorized, in writing, to make such declarations by the
person in charge of the generator's operation.

X Printed/Typed Name Signature Date 10-28-97

FOR OFFICE USE ONLY

MUST BE COMPLETED BEFORE CERTIFICATE OF OCCUPANCY OR CERTIFICATION OF APPROVAL IS ISSUED

Recycling tonnage receipts attached?

Certified tipping receipts attached?

**Note: Receipts must show certified weights, date of disposal and name and address
of disposal center.

DISTRIBUTION LIST:

1. Original to Code Enforcement Officer
2. Construction Code Office
3. Applicant

SITE LOCATION RT 70 + Chambers Rd BLOCK 672 LOT 12 DESCRIPTION OF WORK Plumbing & WPDOTE
OWNER 761 Fe Day PHONE 262-0937-367544 ADDRESS Spencer RT 70 + Chambers Rd STATE NJ ZIP 07923

BUILDING INSPECTION

Contractor _____ Phone (____) _____
Address _____
LIC # _____ FEDERAL EMP. NO. (or SSN#) _____
CERTIFICATION IN LIEU OF OATH

I HEREBY CERTIFY THAT I AM THE (AGENT OF) OWNER OF RECORD AND AM AUTHORIZED TO MAKE THIS APPLICATION AND PERFORM THE WORK LISTED ON THIS APPLICATION.

SIGNATURE _____

ESTIMATED COST OF BUILDING WORK

NEW BUILDING (1) \$ _____ ALTERATION (2) \$ _____
ADDITION (3) \$ _____ TOTAL (1+2+3) \$ _____

BUILDING CHARACTERISTICS

USE GROUP	PRESENT	PROPOSED
CONSTRUCTION CLASS	PRESENT	PROPOSED
NO. OF STORIES	HT. OF STRUCTURE	FT.
AREA: LARGEST FLOOR	SO. FT.	
TOTAL BLDG. AREA: ALL FLOORS	SO. FT.	
VOLUME OF STRUCTURE	CU. FT.	
TOTAL LAND AREA DISTURBED	SO. FT.	

FOR OFFICE USE ONLY		
TYPE OF WORK	COST	MISC.
NEW BLDG.		FENCE
ADDITION		SIGN
ALTERATION		POOL
ROOFING		ASBESTOS ABATEMENT
SIDING		DCA
DEMOLITION		TOTAL

SUBCODE OFFICIAL: _____

☐ Approved

☐ Disapproved

COMMENTS _____

PLUMBING INSPECTION

Contractor Moss-OC Mechanical Inc
Address 1115 Kriebel Ave, Lakewood Phone (732) 3675111
LIC # 810157 FEDERAL EMP. NO. (or SSN#) 28
CERTIFICATION IN LIEU OF OATH

I HEREBY CERTIFY THAT I AM THE (AGENT OF) OWNER OF RECORD AND AM AUTHORIZED TO MAKE THIS APPLICATION AND PERFORM THE WORK LISTED ON THIS APPLICATION.

SIGNATURE (Contractor's Seal) _____

Estimated Cost of Plumbing Work:

Sewer Size EXIST Water Size EXIST \$ 500.00

TECHNICAL SITE DATA (List all fixtures)

NO.	FIXTURE/EQUIPMENT	NO.	FIXTURE/EQUIPMENT
1	Water Closet	10	Steam Boiler
	Urinal		Hot Water Boiler
	Bath Tub		Sewer Pump
4	Lavatory	40	Interceptor/Separator
	Shower		Backflow Preventer
	Floor Drain		Grease Trap
	Sink		Water Cooled A/C
	Dishwasher	2	or Refrigeration Unit
	Drinking Fountain		Sewer Connection
	Washing Machine		Water Service Connection
	Hose Bibb		Active Solar System
	Water Heater		Other
	Fuel Oil Piping		Other
	Gas Piping		Other

SUBCODE OFFICIAL: _____

☒ Approved

☐ Disapproved

COMMENTS _____

FIRE INSPECTION

Contractor _____ Phone (____) _____
Address _____
LIC # _____ FEDERAL EMP. NO. (or SSN#) _____
CERTIFICATION IN LIEU OF OATH

I HEREBY CERTIFY THAT I AM THE (AGENT OF) OWNER OF RECORD AND AM AUTHORIZED TO MAKE THIS APPLICATION AND PERFORM THE WORK LISTED ON THIS APPLICATION.

SIGNATURE (Contractor's Seal) _____

Estimated Cost of Fire Prot. Work:

Heating Type () GAS () OIL () ELECTRICAL () SOLAR \$ _____
Location: _____ Heating System () NEW () EXISTING.

TECHNICAL SITE DATA (Description of Work)

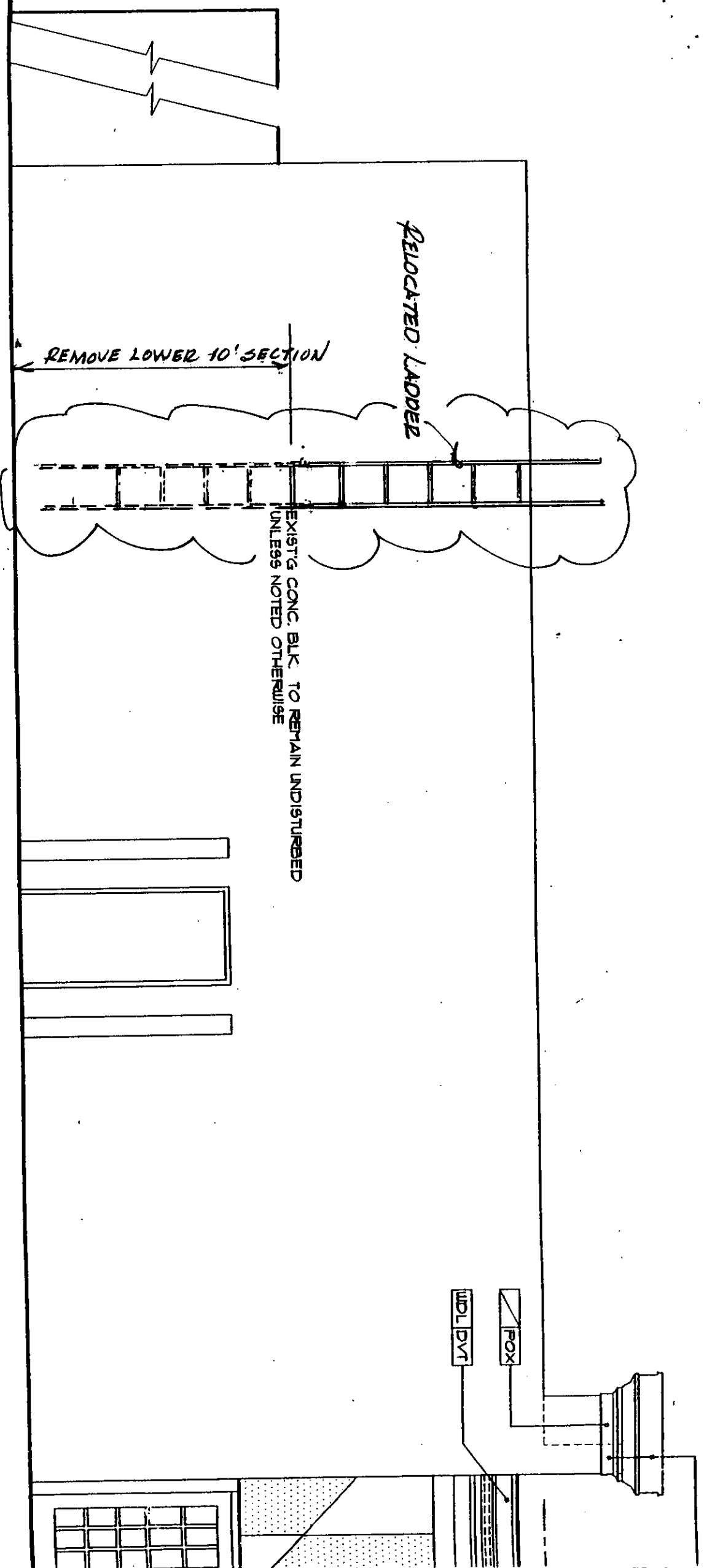
WATER SUPPLY SOURCE			
METHOD OF VALVE SUPERVISION			
LOCAL ALARM SUPERVISION			
CENTRAL SUPERVISION			
PROPRIETARY SUPERVISION			
Flammable Liquid Storage Tanks	☐ Capacity _____	Fuel _____	
Combustible Liquid Storage Tanks	☐ Capacity _____	Fuel _____	
L.P.G. Storage Tanks	☐ Capacity _____	Fuel _____	
L.N.G. Storage Tanks	☐ Capacity _____	Fuel _____	
NO. ITEM	NO.	ITEM	
		Pre-Engineered System	
		CO ₂ Suppression	
		Dry Sprinkler Heads	
		Dry Sprinkler Heads	
		TOTAL	
		Smoke Detectors	
		Heat Detectors	
		TOTAL	
		Stand Pipes	
		Kitchen Hood Exhaust System	

SUBCODE OFFICIAL: _____

☐ Approved

☐ Disapproved

COMMENTS _____



A6.03 SIDE ELEVATION

SCALE: 1/8" = 1'-0"

RELOCATED / MODIFIED LADDER TO ROOF

IGLE RESTAURANT Alterations & Additions

CHAMBERS BRIDGE ROAD, BRICK, N.J.

PERMIT # 3406-97

REVISION

THOMAS H. DIGIORGIO

REGISTERED ARCHITECT

N.J. C-5308

Handwritten signature

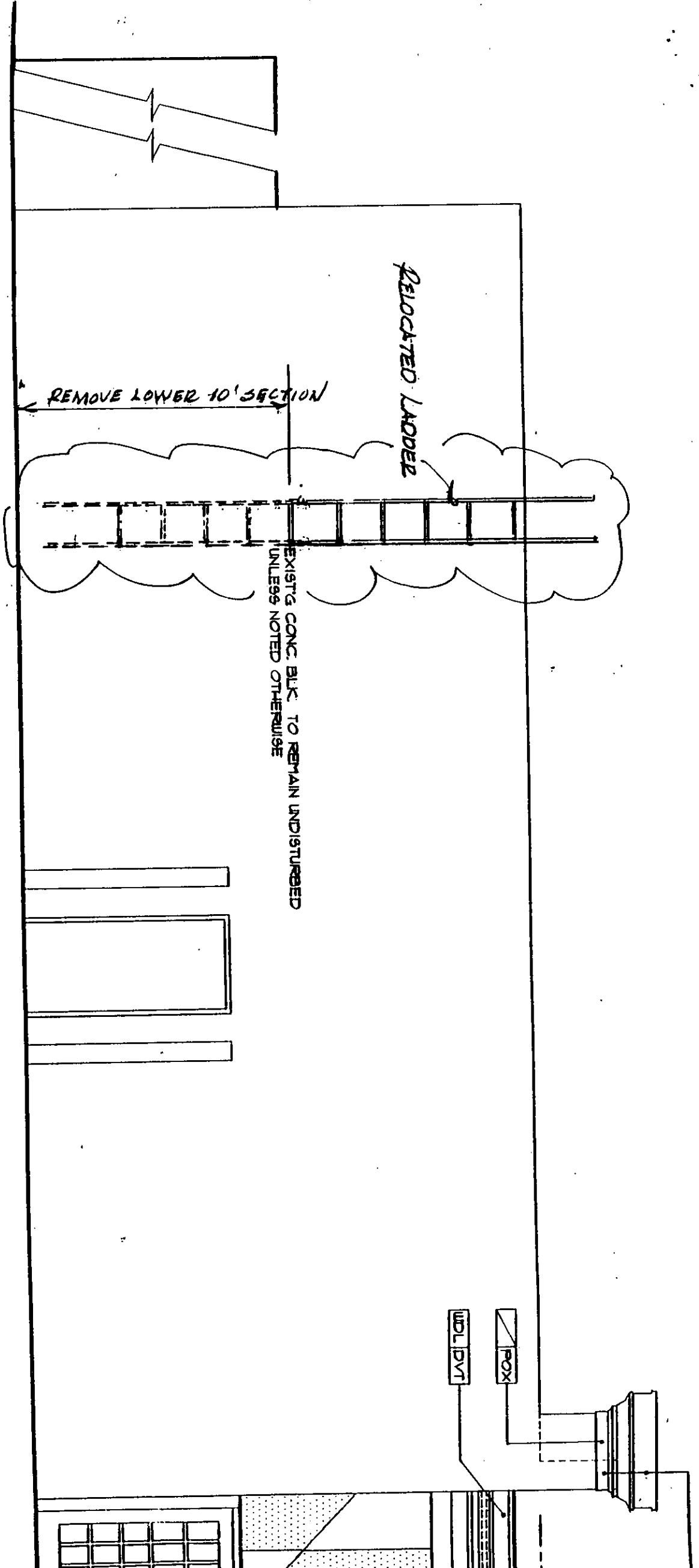
design kollaborative

dk architects/planners, inc.

1701 E. ATLANTIC BLVD., FORT LAUDERDALE, FL 33305

DATE: 2-24-98

16997



EXIST'G CONC. BLK. TO REMAIN UNDISTURBED
UNLESS NOTED OTHERWISE

A6.03 SIDE ELEVATION

SCALE: 1/8" = 1'-0"

RELOCATED / REORIENTED LADDER TO ROOF

REVISED

GILF RESTAURANT Alteration & Addition
CHARLES BRIDGE ROAD, BRIDGE, N.J.
PERMIT # 3486-97

THOMAS H. DIGIORGIO
REGISTERED ARCHITECT
N.J. C-5508

[Signature]

design collaborator
architects/planners, inc.
100 E. ATLANTIC BLVD., FORT LAUDERDALE, FL 33301
TEL: 754-466-1111
FAX: 754-466-1112

BRICK TOWNSHIP PUBS, INC. 02/98
709 ROUTE 70
BRICK, NJ 08723

1003

3-1/310

PAY
TO THE
ORDER OF

DATE 2/27/98

Township of Brick
Nine hundred seven

\$ 907.50

DOLLARS



FOR Affordable Housing

For 3rd

⑈001003⑈ ⑆031000011⑆ 14204 10385⑈

Mary Lou Powner
Kathy M. Russell
Frederick J. Underwood, Sr.

To: Scott M. Pezarras, Chief Financial Officer
From: Carol A. Wolfe, Affordable Housing Administrator
Re: Affordable Housing Fees
Date: 3-2-98

Business/Development: TGI Fridays
Owner/Applicant: Brick Township Pubs, Inc.
Property Address: 705 Route 70
Block: 672 Lot: 12

DEPOSIT RECEIVED
Mandatory Development Fee
Commercial
Residential
Inclusionary Development Fee

Check Number _____
Estimated Fee \$ _____

Deposit Amount \$ _____

FINAL PAYMENT PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY

Mandatory Development Fee
Commercial
Residential
Inclusionary Development Fee

Check Number: 1003
Final Fee: \$ 1815.00
Less Deposit: \$ 907.50

Final Payment \$ 907.50

FOR DEPOSIT ONLY-AFFORDABLE HOUSING TRUST ACCOUNT # 4880071456

Collection of said fees as authorized by Township Ordinance
354-2C-93, is pursuant to N.J.S.A. 52:27D-301 et seq. And N.J.A.C.
5:92-18 et seq.

Received in Treasurer's Office by:

Signature

3-2-98
Date

AHBT FINAL APPROVAL

BRICK TOWNSHIP PUBS, INC. 02/98
709 ROUTE 70
BRICK, NJ 08723

1003

3-1/310

PAY
TO THE
ORDER OF

DATE

2/27/98

\$ 907.50

DOLLARS



CoreStates
Bank

FOR

affordable housing

[Signature]

⑈001003⑈ ⑆03100001⑆ 14204 10385⑈

Mary Lou Powner
Kathy M. Russell
Frederick J. Underwood, Sr.

To: Scott M. Pezarras, Chief Financial Officer
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Re: Affordable Housing Fees
Date: 3-2-98

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Owner/Applicant: Brick Township Pubs, Inc.
Property Address: 705 Route 70
Block: 672 Lot: 12

DEPOSIT RECEIVED

Mandatory Development Fee
Commercial
Residential
Inclusionary Development Fee

Check Number _____
Estimated Fee \$ _____

Deposit Amount \$ _____

FINAL PAYMENT PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY

Mandatory Development Fee
Commercial
Residential
Inclusionary Development Fee

Check Number: 1003
Final Fee: \$ 1815.00
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Received in Treasurer's Office by:

[Signature]
Signature

3-2-98
Date