



CONSTRUCTION PERMIT APPLICATION

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

Famous Dave's

I. IDENTIFICATION

- Proposed Work Site at: 990 Cedar Bridge Ave. Brick N.J. BLDG 4A
- Name of Owner in Fee: 1/6 Paramount Realty, LLC Tel. ()
Address 1195 Route 70, Lakewood N.J. 08701
street municipality zip code
- Ownership in Fee: Public ☐ Private ☒
- Principal Contractor: DESIGN LINE CONSTRUCTION Tel. (732) 935-1440
Address 442 RT. 355, BLDG A, EATONTOWN, NJ 01124
License No. OR, if new home, Builder Reg. No. 22-3345372 Exp. Date 8-22-02
Federal Employee No. 22-3345372 FAX: (732) 935-1532
5. Architect or Engineer The Roberts Group, PSC Tel. (859) 276-2006
Address 237-C Southland Drive Lexington, KY 40503
6. Responsible Person in Charge of Work Robert Farnelli
Tel. (917) 796-1156 FAX (908) 874-4064

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ <u>2070</u>	<u>1590</u>	<u>35</u>
2. Electrical		<u>515</u>	
3. Plumbing			
4. Fire Protection			
5. Elevator Devices			
6. Subtotal	\$		
7. Less 20% for State Plan Review			
8. Subtotal	\$		
9. DCA Training Fee	<u>157</u>		
10. Subtotal		<u>418</u>	
11. Cert. of Occupancy	<u>20</u>		<u>50</u>
12. Other			
13. TOTAL	\$ <u>2675-</u>	<u>2105</u>	<u>50</u>

VI. BUILDING/SITE CHARACTERISTICS

- Number of Stories 21' 3"
- Height of Structure 21' 3" ft.
- Area — Largest Floor 6,000 sq. ft.
- New Building Area 6,000 sq. ft.
- Volume of New Structure 82,800 cu. ft.
- Construction Classification 5B
- Total Land Area Disturbed 6.250 sq. ft.
- Flood Hazard Zone C
- Base Flood Elevation N/A ft.
- Wetlands yes ☐ no ☒
- Max. Live Load FLOOR: 100 PSF; ROOF 20 PSF
- Max. Occupancy Load 263

(office use only)

New Comm' | Bldg

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

Plans Rec'd by

Date Rec'd

Rejection Date

Approval Date

Re-viewer

Resubmission Dates

Approval

Rejection

Re-viewer

TOTAL COSTS

III. DO YOU WANT: (optional)

- ☒ Partial Releases
- ☐ Prototype Processing

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 40
After Construction 40
Net Gain or Loss 0

B. NON-RESIDENTIAL

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

CERTIFICATION IN LIEU OF OATH

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

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

Mark the following applicable boxes:

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

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

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

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

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

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

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

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

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

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

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

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

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

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

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

☒ Check if contractor.

Agent Name DESIGN LINE CONSTRUCTION SERVICES, INC

Address 442 ROUTE 355, BLDG A, 3RD FL.
EATONTOWN, NJ 01724

Telephone (132) 935-1440

Signature Shreen Praney

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									
☐ 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 _____ Energy _____ Other _____

Electrical _____ Barrier Free _____

Plumbing _____ Flood Hazard _____

Fire Protection _____ As Built Elevation Cert. _____

Mechanical _____ Other _____

X. CERTIFICATES ISSUED (office use only)

	DATE ISSUED	DATE EXPIRED	DATE REISSUED	DATE EXPIRED
☐ Temporary Certificate of Occupancy	No. _____	_____	_____	_____
☐ Temporary Certificate of Compliance	No. _____	_____	_____	_____
☐ Continued Certificate of Occupancy	No. _____	_____	_____	_____
☐ Certificate of Compliance	No. _____	_____	_____	_____
☐ Certificate of Occupancy	No. _____	_____	_____	_____
☐ Certificate of Approval	No. _____	_____	_____	_____
☐ Lead Abatement Clearance Certificate	No. _____	_____	_____	_____

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY

CERTIFICATE

Date Issued 06/06/2003
Control #
Permit # 02-3221.2

IDENTIFICATION

Block 670 Lot 9.02 Qual
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A
NEW RESTAURANT FAROUS DAV
Owner in Fee/Occupant EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-
Telephone () -
Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-
Telephone (732)935-1440 Fax (732)935-1475
Lic. No. or Bldgs. Reg. No.
Federal Emp. No. 22-3345372

Home Warranty No. NA
Type of Warranty Plan: [] State [X] Private
Use Group A-3
Maximum Live Load 0
Construction Classification
Maximum Occupancy Load 0
Description of Work/Use:

NEW RESTAURANT BLDG 4-A "FAROUS DAVES"
FOOTING AND FOUNDATION ONLY PER DAN NEWMAN OK
08-20-02

[X] 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 was performed as per NJAC 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 other work, this certificate was based upon what 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.

[] TEMPORARY CERTIFICATE OF OCCUPANCY/COMPLIANCE

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

[] 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 \$ 418
Paid [X] Check No. 3091
Collected by: MJR

CONSTRUCTION OFFICIAL
O.C.C. F260 (rev. 3/96)

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Date Issued 06/06/2003
Control #
Permit # 02-3221.2

IDENTIFICATION

UCC NEW JERSEY
CERTIFICATE

Block 670 Lot 9.02 Qual
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A
Owner in Fee/Occupant NEW RESTAURANT FAMOUS DAV
Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-
Telephone () -
Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-
Telephone (732)935-1440 Fax (732)935-1475
Lic. No. or Bldgs. Reg. No.
Federal Emp. No. 22-3345372

Home Warranty No. NA
Type of Warranty Plan: [] State [X] Private
Use Group A-3
Maximum Live Load 0
Construction Classification
Maximum Occupancy Load 0
Description of Work/Use:

NEW RESTAURANT BLDG 4-A "FAMOUS DAVES"
FOOTING AND FOUNDATION ONLY PER DAN NEWMAN OK
08-20-02

[X] 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 was performed as per NJAC 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 was based upon what was visible at the time of inspection.

[] CERTIFICATE OF CONTINUED OCCUPANCY

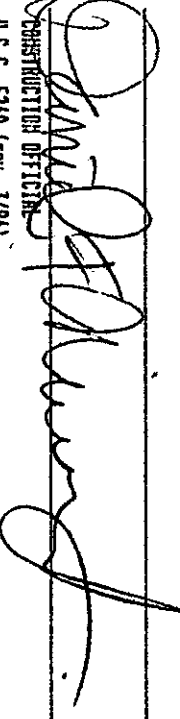
This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

[] TEMPORARY CERTIFICATE OF OCCUPANCY/COMPLIANCE

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

[] 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 ,


CONSTRUCTION OFFICIAL
U.C.C. 7260 (rev. 3/96)

Fee \$ 418
Paid [X] Check No. 3091
Collected by: MUR

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

IDENTIFICATION

UCC NEW JERSEY
CERTIFICATE

Date Issued 06/02/2003
Control #
Permit # 02-3221

Block 670 Lot 9.02 Bual
Work Site Location 960 CEDARBIDGE AVE-BLDG 4-A
NEW RESTAURANT FAMOUS DAVE
Owner in Fee/Occupant EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-
Telephone () -
Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-
Telephone (732)935-1440 Fax (732)935-1475
Lic. No. or Bldgs. Reg. No.
Federal Emp. No. 22-3345372

[] 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.

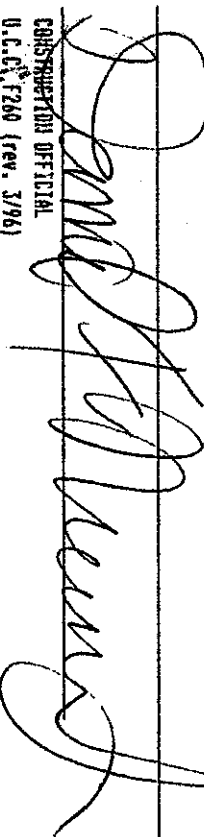
[] CERTIFICATE OF APPROVAL

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 was based upon what was visible at the time of inspection.

[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 June 6, 2003 or the owner will be subject to fine or order to vacate:

COOKING EQUIP. MUST FINAL ALL SUBCODES & ENG.


CONSTRUCTION OFFICIAL
U.C.C. #266 (rev. 3/96)

Home Warranty No.
Type of Warranty Plan: [] State [] Private
Use Group A-3
Maximum Live Load 0
Construction Classification
Maximum Occupancy Load 0
Description of Work/Use:

"FAMOUS DAVES"
EMPLOYEE TRAINING IN DINING ROOM ONLY, NO EMPLOYEES
IN KITCHEN, ~~NO USE OF COOKING EQUIPMENT~~

[] CERTIFICATE OF CLEARANCE - LEAD ABATEMENT 5:17

This serves notice that based on written certification, lead abatement was performed as per NJAC 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 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.

[] 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 \$ 418
Paid [X] Check No. 3091
Collected by: MJR

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Date Issued 06/02/2003
Control #
Permit # 02-3221

IDENTIFICATION

UCC NEW JERSEY
CERTIFICATE

Block 670 Lot 9.02 Qual
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A
NEW RESTAURANT FAMOUS DAVE
Owner in Fee/Occupant EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-
Telephone () -
Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-
Telephone (732)935-1440 Fax (732)935-1475
Lic. No. or Bldrs. Reg. No.
Federal Emp. No. 22-3345372

Home Warranty No.
Type of Warranty Plan: [] State [] Private
Use Group A-3
Maximum Live Load 0
Construction Classification
Maximum Occupancy Load 0
Description of Work/Use:

"FAMOUS DAVES"
EMPLOYEE TRAINING IN DINING ROOM ONLY, NO EMPLOYEES
IN KITCHEN, ~~NO USE OF COOKING EQUIPMENT~~

[] 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 was performed as per NJAC 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 was based upon what 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 June 6, 2003 or the owner will be subject to fine or order to vacate:

COOKING EQUIP. MUST FINAL ALL SUBCODES & ENG.

[] 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 ___.

CONSTRUCTION OFFICIAL
U.C.C., F260 (rev. 3/96)

Fee \$ 418
Paid [X] Check No. 3091
Collected by: MJR



APPLICATION FOR CERTIFICATE

Samuel Davis

Date Received
Date Permit Issued
Control #
Permit #
Date Issued

IDENTIFICATION

Block 670 Lot 9.02
Work Site Location Cedar Bridge Contractor Res. G. L. Inc. Const.
Address 442 KF 35
Owner in Fee Samuel Davis Address 442 KF 35
Address 960 Cedarbridge Ave Tel. (732) 935-1440
Tel. (732) 262-2485 License No. _____
Federal Employee No. _____

ACTION

- ☒ CERTIFICATE OF OCCUPANCY
☐ CERTIFICATE OF CONTINUED OCCUPANCY
☐ LEAD HAZARD ABATEMENT CERTIFICATE OF CLEARANCE
☐ TEMPORARY CERTIFICATE OF OCCUPANCY

USE GROUP _____ Previous _____ Current _____

FINAL COST OF CONSTRUCTION:

\$ X 1,200,000.⁰⁰

(Include value of any new structure, all on-site improvements, built-in furnishings and fixtures and all integral equipment exclusive of process or manufacturing equipment.)

A set of "As Built" or amended drawings is required if the building or structure deviates from the approved plans filed with the construction permit. Use space below to describe any deviations from approved plans:

NONE

If you are requesting a Temporary Certificate of Occupancy, please explain why in the space below.

DESCRIPTION OF WORK/USE:

I hereby attest, that to the best of my knowledge, all work has been completed in accordance with the approved plans, permit, and Regulations. Incomplete items listed on a Temporary Certificate of Occupancy will be completed by the date on the Certificate

SIGNED: _____

OWNER/AGENT

- ☐ OWNER
☒ AGENT

TOWNSHIP OF ELLIJ
401 CHAMBERS DRIVE RD
DIVISION OF INSPECTORS

Date Issued 08/23/2002
Control #
Permit # 02-3221

USE NEW JERSEY
CONSTRUCTION
PERMITS

IDENTIFICATION Sheet 670 Lot 2.02

Part Site Location 940 CROMWELL AVE-CLUB 4-7
Owner in Fee NEW RESIDENTIAL PARKS INC
Address 1155 ROUTE 70 SUITE 200
LAUREL, NJ 08701-
Telephone 1 1 -
Contractor KENNER LITE CONSTRUCTION
Address 8 E INDUSTRIAL WAY AND FLOOR
EASTRIDGE, NJ 0728-
Telephone (732) 933-1400
Lic. No. or Bldgs. Reg. No.
Federal Exp. No. 22-322372

Is hereby granted permission to perform the following work:
☐ BUILDING ☐ PLUMBING ☐ LEAD HAZARD ABATEMENT
☐ ELECTRICAL ☐ FIRE PROTECTION ☐ DETENTION
☐ ELEVATOR SERVICES ☐ ASBESTOS ABATEMENT ☐ OTHER
 (Subchapter 9 only)
 DESCRIPTION OF WORK:
 NEW RESIDENTIAL CLUB 4-7 FURNISH DAVES
 FOOTING AND FOUNDATION ONLY PER NEW JERSEY OR 00-20-02

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 \$ 423,000
 Construction Official
 Date 08/23/2002

U.C.C. 1710 (rev. 3/92)

PARENTS (Office Use Only)
 Building 2,070
 Electrical 0
 Plumbing 0
 Fire Protection 0
 Elevator Devices 0
 Other 157
 New State Permit Fee 157
 Cert. of Occupancy 618
 Other 211
 Total 2,445
 Check No. 3091
 Cash
 Collected By 6072

08/23/2002 15:34 PM 00000084276
 2002 SARV.002
 62070.00
 6157.00
 6418.00
 915.00
 615.00
 CHECK
 62245725 - (TAX)

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Update Issued 08/27/2002
Control #
Permit # 02-12210A
Permit Issued 08/23/2002

DEPT NEW JERSEY
PERMIT UPDATE

IDENTIFICATION Block 618 Lot 4.02

Qual

Work Site Location 960 CEDARBRIDGE AVE-BLDG A-A

PLS A FILE

Owner in Fee EIGHTEENTH VENTURE

Address 1125 ACUTE IN SUITE 2000

LAKEWOOD, NJ 08701-

Telephone ()

Contractor DESIGN LINE CONSTRUCTION

Address 8 E INDUSTRIAL WAY 2ND FLOOR

FAIRHURST, NJ 07724-

Telephone (732) 835-1550

Lic. No. or Bldgs. Reg. No.

Federal Emp. No. 22-345372

I am hereby granted permission to perform the following work:

- ☒ BUILDINGS ☒ PLUMBING ☐ LEAD HAZARD ABATEMENT
- ☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
- ☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT ☐ OTHER

(Subchapter 8 only)

DESCRIPTION OF WORK:

BUILDING REVIEW ONLY FOR FAHQS DAVES
FOOTING AND FOUNDATION ALREADY ISSUED

Estimated Cost of Work \$ 162,001

Construction Official

08/27/2002

Date

O.C.C. #190 (rev. 3/98)

08/27/02 1:29PM 00000046347
BUILDING \$150.00
ELECTRIC \$55.00
SEPTICAL \$2105.00
CHECK \$0.00
CHARGE \$0.00

PAYMENTS (Office Use Only)
Building \$
Electrical 1,598
Plumbing 515
Fire Protection 0
Elevator Devices 0
Other
OCA State Permit Fee 0
Cert. of Occupancy 0
Other
Total 2,105
Check No. 3082
Cash
Collected By TL

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Update Issued 01/21/2003
Control #
Permit # 02-3221+B
Permit Issued 08/23/2002

UCC NEW JERSEY
PERMIT UPDATE

IDENTIFICATION Block 670 Lot 9.02 Qual
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A
CHANGE OF FOOTPRINT
Owner in Fee EIGHTEENTH VENTURE
Address 1125 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-
Telephone () -
Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-
Telephone (732) 935-1440
Lic. No. or Bids. Reg. No.
Federal Emp. No. 22-3345372

Is hereby granted permission to perform the following work:

- [X] BUILDING [] PLUMBING [] LEAD HAZARD ABATEMENT
[] ELECTRICAL [] FIRE PROTECTION [] DEMOLITION
[] ELEVATOR DEVICES [] ASBESTOS ABATEMENT [] OTHER
(Subchapter 8 only)

DESCRIPTION OF WORK:

CHANGE OF FOOTPRINT - NO CHANGE IN SQUARE FOOTAGE

PAYMENTS (Office Use Only)

Building 35
Electrical 0
Plumbing 0
Fire Protection 0
Elevator Devices 0
Other
OCA State Permit Fee 0
Cert. of Occupancy 0
Other 249
Total 284
Check No. 571
Cash
Collected By AJP

Estimated Cost of Work \$ 10

Construction Official [Signature]

01/21/2003
Date

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Update Issued 02/26/2003
Control #
Permit # 02-3221+C
Permit Issued 08/23/2002

UCC NEW JERSEY
PERMIT UPDATE

IDENTIFICATION Block 670 Lot 9.02 Equal

Work Site Location 960 CEDARBRIDGE AVE-2LPS 4-A
Owner in Fee HET CHEMICAL (FIRE)
Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-
Telephone () -
Contractor RELIABLE FIRE PROTECTION
Address 123 WHITE OAK LANE-50,
OLD BRIDGE, NJ
Telephone ()
Lic. No. or Bldgs. Reg. No.
Federal Emp. No. 22-3103000

Is hereby granted permission to perform the following work:

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

DESCRIPTION OF WORK:

HET CHEMICAL FOR FAKOUS DAVES

Estimated Cost of Work \$ 4,000

Construction Official

02/26/2003

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

Date

PAYMENTS (Office Use Only)

Building	0
Electrical	0
Plumbing	0
Fire Protection	184
Elevator Devices	0
Other	
DCA State Permit Fee	0
Cert. of Occupancy	0
Other	
Total	184
Check No.	1032
Cash	
Collected By	JB

02/26/03 10:42AM 00000087003

XX06 SERV CO.

#023221

FIRE

CHECK

0-200-10-1000

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Update Issued 06/03/2003
Control #
Permit # 02-3221+P
Permit Issued 08/23/2002

UCC NEW JERSEY
PERMIT UPDATE

IDENTIFICATION Block 670 Lot 9.02

Qual

Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A
MUSIC SYSTEM (ELECTRIC)
Owner in Fee EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-
Telephone () -

Contractor AG ELECTRIC INC
Address 2 MAYPINK LANE
HOWELL, NJ 07731-
Telephone (732)458-9638
Lic. No. or Bldrs. Reg. No. 10285
Federal Emp. No.

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:
COMMUNICATION POINTS FOR MUSIC SYSTEM

Estimated Cost of Work \$ 450

Construction Official *Deanna J. Carr*

06/03/2003
Date

PAYMENTS (Office Use Only)

Building 0
Electrical 40
Plumbing 0
Fire Protection 0
Elevator Devices 0
Other
DCA State Permit Fee 0
Cert. of Occupancy 0
Other
Total 40
Check No. X
Cash X
Collected By AJP

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Update Issued 06/02/2003
Control #
Permit # 02-3221+E
Permit Issued 08/23/2002

UCC NEW JERSEY
PERMIT UPDATE

IDENTIFICATION Block 670 Lot 9.02 Dual
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A
Owner in Fee EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKEHURST, NJ 08701-
Telephone () -
Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-
Telephone (732) 935-1440
Lic. No. or Bldgs. Reg. No.
Federal Emp. No. 22-3365372

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:
FIRE WORK

PAYMENTS (Office Use Only)
Building 0
Electrical 0
Plumbing 0
Fire Protection 736
Elevator Devices 0
Other
DCA State Permit Fee 0
Cert. of Occupancy 0
Other
Total 736
Check No. 3932
Cash
Collected By ERP

Estimated Cost of Work \$ 1,500
Construction Official
06/02/2003

Date

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

06/02/03 10:22AM 000000H0630
#023221
FIRE
CHECK
\$736.00
\$736.00
XX07 SERV.007

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
PLUMBING
SUBCODE
TECHNICAL SECTION

Date Received 07/19/2002
Date Issued 8/19/02
Control # C22-70-1
Permit # 02-322

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

D. TECHNICAL SITE DATA (List all fixtures.)

Block 670 Lot 9.02 Parcel
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A

PLS/ELEC/FIRE REVIEW

Owner in Fee EIGHTEENTH VENTURE

Address 1195 ROUTE 70 SUITE 2000

LAKEWOOD, NJ 08701-

Tele. (732)264-3666 Fax (732)471-1116

Contractor APOLLO SENER & PLUMBING

Address 110 WEST FRONT ST.

KEYPORT, NJ 07735-

Tele. (332)264-3666

Lic. No. or Bldgs. Reg. No.

Federal Emp. No. 22-2347261

B. PLUMBING CHARACTERISTICS

Use Group Present Proposed A-1
Building Sener Size [] Public Sener [] Private Septic
Water Sener Size [] Public Water [] Private Well
Estimated Cost of Plumbing Work \$ 37,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

Joint Plan Review Required:

[] Bldg [] Elect

[] Fire [] Elevator

[] PLEB. Plans Approved

Date: 8-22-02

Approved By: [Signature]

SUBCODE APPROVAL

[] CO [] CCO [] CA

Approved By:

Date:

INSPECTIONS

Type Failure Failure Approval Initial

Slab

Rough

Water

Sener

Fixtures

Gas Equip.

Gas Piping

Solar

TCO

NO.

FIGURE/EQUIPMENT

Water Closet

Urinal / Bidet

Bath Tub

Lavatory

Shower

Floor Drain

Sink

Dishwasher

Drinking Fountain

Washing Machine

Hose Bib

Water Heater

Fuel Oil Piping

Gas Piping

Steam Boiler

Hot Water Boiler

Sener Pump

Interceptor / Separator

Backflow Preventer

Greasetrapp

Sener Connection

Water Service Connection

Stacks

Other 1-HOP SINK

Other 4-HAND SINK

FEE (Office Use Only)

70

10

0

60

0

140

60

10

0

0

20

0

0

25

0

0

0

0

35

35

35

0

0

10

40

Administrative Surcharge \$ 0

Minimum Fee \$ 0

TOTAL FEE \$ 515

DCA Training Fee \$ 0

Paid [] Check \$

Collected by:

Signature/Contractor Seal

[] Licensed Plumbing Contractor [] Exempt Applicant

**TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD.
DIVISION OF INSPECTIONS**

**UCC MEN JERSEY
PLUMBING
SUBCODE
TECHNICAL SECTION**

Date Received 07/19/2002
Date Issued 8/14/02
Control # C22-70-1
Permit # 10-322

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

D. TECHNICAL SITE DATA (List all fixtures.)

Block 679 Lot 9.02
Work Site Location 960 CEDARHURST AVE-ALDIE 4-A
PLA/ELEC/FIRE REVIEW
Owner in Fee EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LARCHMONT, NJ 08701-
Tele. (332)264-3666 Fax (332)471-1116
Contractor ABRAHAM SENEN & PLUMBING
Address 110 WEST FRONT ST.
KEENONT, NJ 07735
Tele. (332)264-3666
Lic. No. or Bids. Reg. No.
Federal Exp. No. 22-2347261

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
7	Water Closet	70
1	Urinal / Bidet	10
0	Bath Tub	0
6	Lavatory	60
0	Shower	0
14	Floor Drain	140
6	Sink	60
1	Dishwasher	10
0	Drinking Fountain	0
0	Washing Machine	0
3	Hose Bib	30
0	Water Heater	0
0	Fuel Oil Piping	0
1	Gas Piping	25
0	Steam Boiler	0
0	Hot Water Boiler	0
0	Sewer Pump	0
0	Interceptor / Separator	0
1	Backflow Preventer	35
0	Grass/soilrad	35
0	Senior Connection	0
0	Water Service Connection	0
0	Stacks	0
0	Other 1-HOP SINK	10
0	Other 4-HAND SINK	40

B. PLUMBING CHARACTERISTICS
Use Group Present Proposed A-1
Building Sewer Sizo [] Public Sewer [] Private Septic
Water Sensor Sizo [] Public Water [] Private Well
Estimated Cost of Plumbing Work \$ 57,000

JOB SUMMARY (Office Use Only)
PLAN REVIEW
[] No Plans Required
Joint Plan Review Required:
[] Bldg [] Elect
[] Fire [] Elevator
[] Plumb. Plans Approved
Date: _____
Approved By: _____
SUBCODE APPROVAL
[] CO [] CCO [] CA
Approved By: _____
Date: _____

INSPECTIONS	Dates (Month/Day)	Failure	Approval Initial
Type			
Slab			
Rough			
Water			
Sewer			
Fixtures			
Gas Equip.			
Gas Piping			
Solar			
TCO			

C. CERTIFICATION IN LIEU OF DATA
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.

Paid [] Check \$ _____
Collected by: _____
Administrative Surcharge \$ 0
Minibus Fee \$ 0
TOTAL FEE \$ 515
DCA Training Fee \$ 0

Signature/Contractor Seal
[] Licensed Plumbing Contractor [] Exempt Applicant

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
PLUMBING
SUBCODE
TECHNICAL SECTION

Date Received 07/19/2002
Date Issued 8/6/02
Control # C22-70-1
Permit # 02-322 +4

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

D. TECHNICAL SITE DATA (list all fixtures.)

Block 670 Lot 9.02 Qual
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A
PLS/ELEC/FIRE REVIEW

NO.

FEE (Office Use Only)

Owner in fee EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-
Tele. (732)264-3666 Fax (732)471-1116
Contractor APOLLO SEWER & PLUMBING
Address 110 WEST FRONT ST.
KEYPORT, NJ 07735-
Tele. (732)264-3666
Lic. No. or Bldrs. Reg. No.
Federal Emp. No. 22-2347261

Water Closet	70
Urinal / Bidet	10
Bath Tub	0
Lavatory	60
Shower	0
Floor Drain	140
Sink	60
Dishwasher	10
Drinking Fountain	0
Washing Machine	0
Hose Bib	20
Water Heater	0
Fuel Oil Piping	0
Gas Piping	25
Steam Boiler	0
Hot Water Boiler	0
Sewer Pump	0
Interceptor / Separator	0
Backflow Preventer	35
Greasetrapp	35
Sewer Connection	0
Water Service Connection	0
Stacks	0
Other 1-NOP SINK	10
Other 4-HAND SINK	40

8. PLUMBING CHARACTERISTICS

Use Group Present Proposed A-3
Building Sewer Size [] Public Sewer [] Private Septic
Water Sewer Size [] Public Water [] Private Well
Estimated Cost of Plumbing Work \$ 57,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required
Joint Plan Review Required:

[] Bldg [] Elect
[] Fire [] Elevator

[] Plumb. Plans Approved

Date: 8-22-02

Approved by:

SUBCODE APPROVAL

CO [] CC0 []
Approved by: 6-5-03

INSPECTIONS

Dates (Month/Day)

Type

Failure Failure Approval Initial

Slab

3-7-01

Rough

4-2-01

Water

5-12-01

Sewer

5-12-01

Fixtures

Gas Equip.

4-21-01

Gas Piping

6-2-02

Solar

5-22-02

TO

5-22-02

Paid [] Check #
Collected by:

Administrative Surcharge \$
Minimum Fee \$
TOTAL FEE \$ 515
DCA Training Fee \$ 0

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.

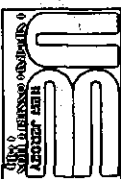
Signature/Contractor Seal
[] Licensed Plumbing Contractor [] Exempt Applicant

- Q
- ① Metered faucets
 - ② H.C. Shaker on Museum
 - ③ Cank all Fixtures
 - ④ Ten 2 copper backflow
 - ⑤ Meter supports
 - ⑥ Soda backflow
 - ⑦ Pipe cond to F.D.
 - ⑧ Strainers for all floor sinks

6-2-03

Faucets H.C.

INCHES



FIRE
SUBCODE
TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

2-26-03
02-3221+C

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

Block 670 Lot 9.02
Work Site Location 950 CEDAR BRIDGE AVE.

BAIRD, NJ 08844

Owner In Fee FAMOUS DAVES

Address 950 CEDAR BRIDGE AVE.

BAIRD, NJ 08844

Tele. () RELIABLE FIRE PROTECTION INC.

Contractor 123 WHITE OAK LAKE SUITE 225

Address 020 BRIDGE, NJ 08857

Tele. () 732 607-1500 Fax () 732 607-1515

Lic. No. 22-3103000

Federal Emp. No. 22-3103000

B. FIRE PROTECTION CHARACTERISTICS

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

Total Cost of Fire Protection Work \$ 4,000.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW	INSPECTIONS	Dates (Month/Day)	Initial
☐ No Plans Required	Type:	Failure	Approval
Joint Plan Review Required:	Alarm System		
☐ Building ☐ Plumbing	Suppression Sys.		
☐ Electric ☐ Elevator	Standpipe		
☒ Fire Plans Approved	Fire Pump		
Date: <u>2/14/03</u>	Pre-Eng. System		
Approved by: <u>DB</u>	Mechanical		
SUBCODE APPROVAL	Smoke Control		
☐ CO ☐ CCO ☐ CA	TCO		
Date: <u>2/14/03</u>	Final		
Approved by: <u>DB</u>	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.

Signature [Signature]

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

Water Supply Source Method of Alarm/Suppression System Supervision

Storage Tanks

Type: ☐ Flammable Liquid ☐ Combustible Liquid

☐ LPG ☐ LNG Capacity Fuel

Alarm Systems ☐ 110V Interconnected NUMBER

☐ System

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

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

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

Other Devices

TOTAL

Suppression Systems

Fire Pump GPM Type

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO₂ Suppression

Foam Suppression

Halon Suppression

Other

Kitchen Hood Exhaust System

Smoke Control System

Gas ☐ or Oil ☐ Fired Appliances

Other

Other

Administrative Surcharge \$

Minimum Fee \$

DCA Training Fee \$

TOTAL FEE \$

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
FIRE PROTECTION
SUBCODE
TECHNICAL SECTION

Date Received 05/28/2003
Date Issued 04/01/1994
Control #
Permit # 02-3221+E 6/2/03

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

Block 670 Lot 9.02 Qual
Work Site Location 960 CEDARBRIDGE AVE BLDG 4-A

Owner in Fee EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKENOOD, NJ 08701-
FIRE WORK *Family*

Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-
Tele. (732) 935-1440

Lic. No. or Bldgs. Reg. No.
Federal Emp. No. 22-3345372

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present A-3 Proposed A-3
Constr Class Present Proposed
Heating Systems [X] New [] Existing [] HVAC
Type: [X] Gas [] Oil [] Elect [] Solar
[] Other
Location: ROOF TOP UNITS
Total Est Cost of Fire Prot Work \$ 1,500

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[] No Plans Required
Joint Plan Review Required:
[] Bldg [] Elect
[] Plumb [] Elevator
[] Fire Plans Approved
Date: 6-3-03
Approved By: *[Signature]*
SUBCODE APPROVAL
[] CO [] CCG [] CA

INSPECTIONS
Type Alarm Sys
Suppr Test
Standpipe
Fire Pump
Preeng Sys
Mechanical
Smoke Ctl
TCO
Final
Other
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

D. TECHNICAL SITE DATA

Description of Work:
Water Supply Source
Method of Alarm/Suppr Sys Superv
Storage Tanks
Type: [] Flammable liquid [] Combust liquid
[] LPG [] LNG Capacity 0 Fuel
Alarm Systems [] 110v Interconnected NUMBER
[] System

Alarm Devices (smoke, heat, pulls, water/flow) 0
Supervisory Devices (tamper, low/high air) 0
Signalling Devices (horn/strobes, bells) 0
Other Devices 0
TOTAL 0
Suppression Systems
Fire Pump 0 GPM Type
Dry Pipe/Alarm Valves 0
Pre-action Valves 0
Sprinkler Heads (dry and wet) 0
Standpipes 0
Pre-Engineered Systems
Wet Chemical 0
Dry Chemical 0
CO2 Suppression 0
Foam Suppression 0
Halon Suppression 0
Other 0

Kitchen Hood Exhaust System 2
Smoke Control System 0
Gas [X] or Oil [] Fired Appliances 8
Other 5 ROOF TOP UNITS 230
Other GAS FIREPLACE 46
FEE (Office Use Only)

Paid [] Check \$
Collected by: \$
Administrative Surcharge \$
Minimum Fee \$
TOTAL FEE \$ 736
DCA State Permit Fee \$

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
FIRE PROTECTION
SUBCODE
TECHNICAL SECTION

Date Received 05/28/2003
Date Issued 04/01/1994
Control #
Permit # 02-3221+E 6/2/03

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING

CONTRACTORS, NOTIFY THIS OFFICE, CALL UTILITY DIG NO: 1-800-272-1000
Block 670 Lot 9.02 Qual
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A
FIRE WORK
Owner in Fee EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-
Tele. ()
Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
FAIRHURTON, NJ 07724-
Tele. (322)935-1440
Lic. No. or Bldrs. Reg. No.
Federal Emp. No. 22-3345372

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present A-3 Proposed A-3
Constr Class Present Proposed
Heating Systems [X] New [] Existing [] HVAC
Type: [X] Gas [] Oil [] Elect [] Solar
[] Other
Location: ROOF TOP UNITS
Total Est Cost of Fire Prot Work \$ 1,500

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[] No Plans Required
Joint Plan Review Required:
[] Bldg [] Elect
[] Plumb [] Elevator
[] Fire Plans Approved
Date: 6-2-03
Approved By: [Signature]
SUBCODE APPROVAL
[] CO [] CCO [] CA
Date: _____
Approved By: _____
INSPECTIONS
Type Alarm Sys
Suppr Test
Standpipe
Fire Pump
PreEng Sys
Mechanical
Smoke Ctl
TCO
Final
Other

Dates (Month/Day)
Failure Failure Approval Initial

D. TECHNICAL SITE DATA

Description of Work:
Water Supply Source
Method of Alarm/Suppr Sys Superv
Storage Tanks
Type: [] Flammable liquid [] Combust liquid
[] LPG [] LNG Capacity 0 Fuel
Alarm Systems [] 110V Interconnected NUMBER
[] System
Alarm Devices (smoke, heat, pulls, water/flood) 0
Supervisory Devices (tamper, low/high air) 0
Signalling Devices (horn/strobes, bells) 0
Other Devices 0
TOTAL 0
Suppression Systems
Fire Pump 0 GPM Type 0
Dry Pipe/Alarm Valves 0
Pre-action Valves 0
Sprinkler Heads (dry and wet) 0
Standpipes 0
Pre-engineered Systems 0
Wet Chemical 0
Dry Chemical 0
CO2 Suppression 0
Foam Suppression 0
Halon Suppression 0
Other 0

FEE (Office Use Only)

Kitchen Hood Exhaust System 2
Smoke Control System 0
Gas [X] or Oil [] Fired Appliances 8
Other 5 ROOFTOP UNITS 368
Other GAS FIREPLACE 230
46

Paid [] Check # Administrative Surcharge \$
Minimum Fee \$
Collected by: TOTAL FEE \$ 736
OCA State Permit Fee \$

Signature

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
FIRE PROTECTION
SUBCODE
TECHNICAL SECTION

Date Received 05/28/2003
Date Issued 01/01/1954
Control #
Permit # 02-3221+E 6/2/03

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

Block 670 lot 9.02 Qual

Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-H

FIRE WORK

Owner in Fee EIGHTEENTH VENTURE

Address 1195 ROUTE 70 SUITE 2000

LAKEWOOD, NJ 08701-

Tele. ()

Contractor DESIGN LINE CONSTRUCTION

Address 8 E INDUSTRIAL WAY 2ND FLOOR

EAHONTOWN, NJ 07724-

Tele. (332) 935-1440

Lic. No. or Bldgs. Reg. No.

Federal Emp. No. 22-3345372

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present A-3 Proposed A-3

Constr Class Present Proposed

Heating Systems [X] New [] Existing [] HVAC

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

[] Other

Location: ROOF TOP UNITS

Total Est Cost of Fire Prot Work \$ 1,500

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

Joint Plan Review Required:

[] Bldg [] Elect

[] Plumb [] Elevator

[] Fire Plans Approved

Date: 6-2-03

Approved By: [Signature]

SUBCODE APPROVAL

[] CO [] CCG [] CA

Date:

Approved By:

Final

Other

INSPECTIONS

Type

Alarm Sys

Suppr Test

Standpipe

Fire Pump

Prefing Sys

Mechanical

Smoke Ctl

TCO

Final

Other

Dates (Month/Day)

Failure Failure Approval Initial

Fire Alarm System

New [] Existing []

Location of Panel:

Fire Suppression/Standpipe Sys

New [] Existing []

Location of Main Control Valve

D. TECHNICAL SITE DATA

Description of Work:

Water Supply Source

Method of Alarm/Suppr Sys Superv

Storage Tanks

Type: [] Flammable liquid [] Combust liquid

[] LPG [] LNG Capacity 0 Fuel

Alarm Systems [] 110V Interconnected NUMBER

[] System

Alarm Devices (smoke, heat, pulls, water/flow)

Supervisory Devices (tamper, low/high air)

Signalling Devices (horn/strobes, bells)

Other Devices

TOTAL

Suppression Systems

Fire Pump 0 GPM Type

Dry Pipe/Alarm Valves

Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO2 Suppression

Foam Suppression

Halon Suppression

Other

Kitchen Hood Exhaust System

Smoke Control System

Gas [X] or Oil [] Fired Appliances

Other 5 ROOFTOP UNITS

Other GAS FIREPLACE

Administrative Surcharge \$

Paid [] Check #

Minimum Fee \$

Collected by: TOTAL FEE \$

DCA State Permit Fee \$

FEE (Office Use Only)

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
FIRE PROTECTION
SUBCODE
TECHNICAL SECTION

Date Received 01/30/2003
Date Issued 5/24/03
Control # C31-96
Permit # 03-2207

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

Block 670 Lot 9.02 Qual

Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A

Owner in fee EIGHTEENTH VENTURE
ALARM DEVICE/SMOKE

Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-

Tele. ()

Contractor LOCKRITE SECURITY

Address 1 CODDINGTON AVE
PLAINFIELD, NJ 07060-

Tele. ()

Lic. No. or Bldrs. Reg. No.

Federal Emp. No. 22-2382859

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present B Proposed B
Constr Class Present Proposed
Heating Systems [] New [] Existing [] HVAC
Type: [] Gas [] Oil [] Elect [] Solar
[] Other

Location:
Total Est Cost of Fire Prot Work \$ 3,490

Fire Alarm System
New [] Existing []
Location of Panel:
Fire Suppression/Standpipe Sys
New [] Existing []
Location of Main Control Valve

C. SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required
Joint Plan Review Required:
[] Bldg [] Elect
[] Plumb [] Elevator

Date: 5-23-03
Approved By: [Signature]

SUBCODE APPROVAL
[] CO [] CCO [] CA
Date: 5-23-03
Approved By: [Signature]

Approved By: [Signature]

Approved By: [Signature]

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:

Water Supply Source

Method of Alarm/Suppr Sys Superv

Storage Tanks

Type: [] Flammable liquid [] Combust liquid
[] LPG [] LNG Capacity 0 Fuel

Alarm Systems [] 110V Interconnected NUMBER
[] System

Alarm Devices(smoke,heat,pulls,water/flow) 5-5-pulls
Supervisory Devices (tamper,low/high air) 0
Signalling Devices (horn/strobes, bells) 0-6 strobes/14 bells
Other Devices 0

TOTAL 5

Suppression Systems
Fire Pump 0 GPM Type 0

Dry Pipe/Alarm Valves 0
Pre-action Valves 0
Sprinkler Heads (Dry and Wet) 0

Standpipes 0
Pre-engineered Systems 0
Wet Chemical 0

Dry Chemical 0
CO2 Suppression 0
Foam Suppression 0

Halon Suppression 0
Other 0

Kitchen Hood Exhaust System 0
Smoke Control System 0
Gas [] or Oil [] Fired Appliances 0

Other 0
Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

Other 0

FEE (Office Use Only)

Administrative Surcharge \$ 0

Paid [] Check # Minimum Fee \$ 0

Collected by: TOTAL FEE \$ 35

DCA State Permit Fee \$ 3

1.1.1 Hose Duct
Detectors do not
start down

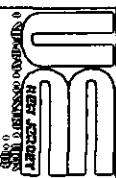
Kitchen Fire
= Label Hose and fast pen
= manul pen fast ok

COMMENTS

- Super

- Make Hvac
Trouble Work only

-



FIRE SUBCODE TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

2-26-03
02-3221+c

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

Block 670 Lot 902
Work Site Location 950 CEDAR BRIDGE AVE.

Owner in Fee FAHNS DAVES
Address 950 CEDAR BRIDGE AVE

BAVER, NJ 08844

Tele. () RELIABLE FIRE PROTECTION INC.

Address 123 WHITE OAK LAKE SUITE 225

OLD BRIDGE, NJ 08857

Tele. (732) 607-1500 Fax (732) 607-1515

Lic. No. 22-3103000

Federal Emp. No. 22-3103000

B. FIRE PROTECTION CHARACTERISTICS

Use Group Present Proposed

Constr. Class Present Proposed

Heating Systems Gas New Existing HVAC

Type: Gas Oil Electric Solar

Location: Other

Total Cost of Fire Protection Work \$ 4,000.00

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 [Signature]

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK:

Water Supply Source Water

Method of Alarm/Suppression System Supervision Supervision

Storage Tanks

Type: Flammable Liquid Combustible Liquid

LPG LNG Capacity Fuel

Alarm Systems Interconnected System

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

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

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

Other Devices

TOTAL

Suppression Systems

Pre-action Valves

Dry Pre-action Valves

Sprinkler Heads (Dry and Wet)

Standpipes

Pre-engineered Systems

Wet Chemical

Dry Chemical

CO₂ Suppression

Foam Suppression

Halon Suppression

Other

Kitchen Hood Exhaust System

Smoke Control System

Gas or Oil Fired Appliances

Other

Administrative Surcharge

Minimum Fee

DCA Training Fee

TOTAL FEE

U.C.C. F140

(rev. 3/96)

FEE (Office Use Only)

Huber NO Permits
 Mach. Duct Det
 Alarms (Test)

- Coking appliances

- Exterior finish

- Test Emer. Exit lights

- Pump test
 - shut down alarms
 - alarm circuit

Permit for Smoker
 w/ all specs

106

- Occupancy load
 #s

- Truss roof sign
 fireplace

12 Trencher
 13 RPS
 93 Stair X
 15K

000 263

181 Seath
 37 KAK
 19 KHT
 82

181 Seath
 37 RAN
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TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
ELECTRICAL
SUBCODE
TECHNICAL SECTION

Date Received 07/19/2002
Date Issued 7/19/02
Control # C22-70-1
Permit # 62-3321

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

D. TECHNICAL SITE DATA

FEE (Office Use Only)

Block 670 Lot 2.02 Subd 1-4

PLS/ELECT/FIRE REVIEW

Owner in Fee EIGHTHENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701

Tel: (732) 458-9639 Fax ()
Contractor AG ELECTRIC INC

Address 2 HAYMARK LANE
ROSEL, NJ 07231

Tel: (732) 458-9639
Lic. No. or Bids. Reg. No. 10285

Federal Emp. No.

D. ELECTRICAL CHARACTERISTICS

Use Group - Present Proposed A-1
[] Pole/Pad [] Temporary [] Other
Building Occupied as Utility Co.
Estimated Cost of Electrical Work \$ 105,000

JOB SUMMARY (Office Use Only)

INSPECTIONS Dates (Month/Day)

PLAN REVIEW
[] No Plans Required
Joint Plan Review Required:
[] Bldg [] Plumb
[] Fire [] Elevator
[] Elect Plans Approved
Date: 7/19/02
Approved By: [Signature]
SUBCODE APPROVAL
[] CU [] CCU [] CA
Date: _____
Approved By: _____

NO.	SIZE	ITEM	
220		Lighting Fixtures	
70		Receptacles	
50		Switches	
0		Detectors	
0		Light Poles	
0		Motors-Fract HP	
0		Emergency & Exit Lights	
0		Communications Points	
0		Alarm Devices/F.A.C. Panel	
370		TOTAL WIREFEES	105
0		Pool Permits/with UV lights	0
0		Storable Pool/Spa/Hot Tub	0
0		KU Elect Range/Receptacle	0
0		KU Oven/Surface Unit	0
0		KU Elect Water Heater	0
0		KU Elect Dryer/Receptacle	0
1	175	KU Dishwasher	200
0		HP Garbage Disposal	0
5	10	KU Central A/C Unit	45
0		HP/KU Space Heater/Air Handler	0
4	265	Baseboard Heat	800
0		HP Motors 1/4 HP	0
0		KU Transformer/Generator	0
0		AMP Service	200
1	1000	AMP Subpanels	160
4	225	AMP Motor Control Center	0
0		KU Elect Sign/Outline Light	0
0		Other 2-SUBPANEL 1000H	80
0		Other	0

C. CERTIFICATION IN LIEU OF OATH
I hereby certify that I am the (agent of) owner of record and am authorized to take this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature
[] Licensed Electrical Contractor [] Exempt Applicant

Paid [] Check \$ _____
Collected by: _____
Administrative Surcharge \$ _____
Minimum Fee \$ _____
TOTAL FEE \$ 1,590
OCA Training Fee \$ _____

Date Received 07/19/2002
Date Issued 8/12/02
Control # C22-70-1
Permit # 07 3351

Permit # 27

FEE (Office Use Only)

FEE (Office Use Only)

105

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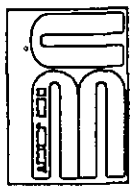
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C.G. F120 (rev. 3/96)

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**ELECTRICAL
SUBCODE
TECHNICAL SECTION**



Date Received
Date Issued
Control #
Permit #

4/21/03
622-70
02-3221

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

Block 670 Lot 9.02
Work Site Location 960 Cambridge Ave Bld 4-A

Owner In Fee/Occupant Edifice Wdr UBDAE
Address 1195 Mt So 1r 2000

Tel. (232) 458-9638
Contractor A. G. Electrical Inc.

Address 41 Woodview dr
Tel. (232) 458-9638

Fax (232) 458-9638
Lc. No. 10285

Federal Emp. No. _____
B. ELECTRICAL CHARACTERISTICS

Use Group Present A-3 Proposed A-3
[] Pole/Pad # _____ [] Temporary update

Building Occupied as _____ Utility Co. _____
Est. Cost of Elec. Work \$ _____

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
[X] Licensed Electrical Contractor [] Exempt Applicant

JOB SUMMARY (Office Use Only)
PLAN REVIEW Date Initial

Joint Plan Review Required: _____
[] Building [] Plumbing _____
[] Fire [] Elevator _____

Date: 5/2/03 Approved by: AS
SUBCODE APPROVAL

[] CO [] CCO [] CA
Date: _____
Approved by: _____

Temp. Cut-In-Card Date Issued _____
Final Cut-In-Card Date Issued _____

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 UV Lights
Storable Pool/Spa/Hot Tub
KW Elec. Range/Receptacle
KW Oven/Surface Unit
KW Elec. Water Heater circulator
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 1/2 HP
KW Transformer/Generator
AMP Service
AMP Subpanels
AMP Motor Control Center 1.7030
2000 KW Elec. Sign/Outline Light 1-F.D.
2000 KW Elec. Sign/Outline Light 1-F.D.
1 15000 DCA Boston Heater
2-20-Hmd/4000 11000
MAKE UP AIR 20 AMP
5-EXFNS 2000 34

4-note NO 1500 Board 11000
4-units 1000 watt wall 11000 Force Heat

U.C.C. F120 (rev. 3/98)
1 White = Inspector Copy
2 Green = Office Copy
3 Pink = Office Copy
4 Gold = Applicant Copy

TOTAL FEE \$ _____

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
ELECTRICAL
SUBCODE

TECHNICAL SECTION

Date Received 06/02/2003
Date Issued 01/01/1954
Control # 06-03-03
Permit # 02-3221+F

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

Block 670 Lot 9.02 Qual _____
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A

MUSIC SYSTEM (ELECTRIC)

Owner in Fee EIGHTEENTH VENTURE

Address 1195 ROUTE 70 SUITE 2000

LAKEHOD, NJ 08701

Tele. ()

Contractor AG ELECTRIC INC

Address 2 HAYPINK LANE

HOBELL, NJ 07731

Tele. (732) 458-9638

Lic. No. or Bldrs. Reg. No. 10285

Federal Emp. No. _____

B. ELECTRICAL CHARACTERISTICS

Use Group - Present A-3 Proposed A-3

[] Pole/Pad # [] Temporary [] Other

Building Occupied as Utility Co.

Estimated Cost of Electrical Work \$ 450

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☒ No Plans Required

☐ Joint Plan Review Required:

[] Bldg [] Plumb

[] Fire [] Elevator

[] Elect Plans Approved

Date: 6/2/03

Approved By: [Signature]

SUBCODE APPROVAL

[] CO [] CCO [] CA

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 and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature

[] Licensed Electrical Contractor [] Exempt Applicant

D. TECHNICAL SITE DATA

NO. SIZE

ITEM

FEE (Office Use Only)

Lighting Fixtures

Receptacles

Switches

Detectors

Light Poles

Motors-Frac HP

Emergency & Exit Lights

Communications Points

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with UV lights

Storable Pool/Spa/Hot Tub

KN Elect Range/Receptacle

KN Oven/Surface Unit

KN Elect Water Heater

KN Elect Dryer/Receptacle

KN Dishwasher

HP Garbage Disposal

KN Central A/C Unit

HP/KN Space Heater/Air Handler

Baseboard Heat

HP Motors 1/4 HP

KN Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KN Elect Sign/Outline Light

Other

Other

Administrative Surcharge \$

Minidow Fee \$

TOTAL FEE \$

DCA State Permit Fee \$

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
ELECTRICAL
SUBCODE

TECHNICAL SECTION

Date Received 06/02/2003
Date Issued 01/01/1954
Control # 06-03-03
Permit # 02-3221+F

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

D. TECHNICAL SITE DATA

FEE (Office Use Only)

Block 670 Lot 9.02 Qual

Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A

MUSIC SYSTEM (ELECTRIC)

Owner in Fee EIGHTEENTH VENTURE

Address 1195 ROUTE 70 SUITE 2000

LAKEWOOD, NJ 08701-

Tele. ()

Contractor AG ELECTRIC INC

Address 2 MAYPINK LANE

HOMEEL, NJ 07731-

Tele. (312) 458-9638

Lic. No. or Bldrs. Reg. No. 10285

Federal Emp. No.

B. ELECTRICAL CHARACTERISTICS

Use Group - Present A-3 Proposed A-3

[] Pole/Pad [] Temporary [] Other

Building Occupied as Utility Co.

Estimated Cost of Electrical Work \$ 450

JOBS SUMMARY (Office Use Only)

PLAN REVIEW

No Plans Required

Joint Plan Review Required:

[] Bldg [] Plumb

[] Fire [] Elevator

[] Elect Plans Approved

Date: 6-2-03

Approved By: [Signature]

SUBCODE APPROVAL

[] CO [] CCO [] CA

Date:

Approved By:

INSPECTIONS

Type Failure Dates (Month/Day) Initial

Rough

Temp Serv

Const Serv

TCO

Other

Service

Final

Temp. Cut-in-Card Date Issued

Final Cut-in-Card Date Issued

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 UM Lights

Storable Pool/Spa/Hot Tub

KW Elect Range/Receptacle

KW Oven/Surface Unit

KW Elect Water Heater

KW Elect Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

Baseboard Heat

HP Motors 1/4 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elect Sign/Outline Light

Other

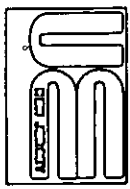
Administrative Surcharge

Minimum Fee

TOTAL FEE

DCA State Permit Fee

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



**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 670 960 9.02
Work Site Location 960 9.02
Owner In Fee/Occupant Electric UB DATE
Address 1195 87th St 2000
Statewood NJ 08701
Tel: (732) 958-9638
Contractor A. G. Electric Inc.
Address 41 Woodview dr
Statewood NJ 07731
Tel: (732) 958-9638 Fax ()
Lic. No. 10285
Federal Emp. No.
B. ELECTRICAL CHARACTERISTICS
Use Group Present A-3 Proposed A-3
Building Occupied as Temporary update
Est. Cost of Elec. Work \$

COMMERCIAL



Date Received 6/2/03
Date Issued 6-22-70
Control # 02-3221
Permit # 12

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 1/2 HP
- KW Transformer/Generator
- AMP Service
- AMP Subpanels
- AMP Motor Control Center

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial

Joint Plan Review Required:

- ☐ No Plans Required
- ☐ Building ☐ Plumbing
- ☐ Fire ☐ Elevator
- ☐ Elec. Plans Approved

Date: 6/2/03 Approved by: AS

SUBCODE APPROVAL

☐ CO ☐ CCO ☒ CA

Date: 6/30/03 Approved by: LM

INSPECTIONS

Type:	Failure	Failure	Approval	Initial
Rough				
Temp. Serv.				
Constr. Serv.				
TCO				
Other				
Service				
Final				
Temp. Cut-in-Card Date Issued				
Final Cut-in-Card Date Issued				

Note NO Baseboard Heat
4-units 1000 watt wall heat

FEE (Office Use Only)

Administrative Surcharge	\$
Minimum Fee	\$
DCA Training Fee	\$
TOTAL FEE	\$

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

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
ELECTRICAL
SUC CODE
TECHNICAL SECTION

Date Received 06/02/2003
Date Issued 01/01/1954
Control # 02-03-03
Permit # 02-3221+F

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

D. TECHNICAL SITE DATA

FEE (Office Use Only)

Block 670 Lot 9.02 Qual
Work Site Location 960 CEDARBIDGE AVE-BLDG 4-A
Owner in Fee EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701
Tele. ()
Contractor AG ELECTRIC INC
Address 2 MAPLE LANE
HOMELL, NJ 07731
Tele. (732) 458-9638
Lic. No. or Bldgs. Reg. No. 10285
Federal Emp. No.

NO.	SIZE	ITEM
0		Lighting Fixtures
0		Receptacles
0		Switches
0		Detectors
0		Light Poles
0		Motors-Fract HP
0		Emergency & Exit Lights
0		Communications Points
0		Alarm Devices/F.A.C. Panel
48		TOTAL NUMBERS
0		Pool Permit/with UW Lights
0		Storable Pool/Spa/Hot Tub
0		KW Elect Range/Receptacle
0		KW Oven/Surface Unit
0		KW Elect Water Heater
0		KW Elect Dryer/Receptacle
0		KW Dishwasher
0		HP Garbage Disposal
0		KW Central A/C Unit
0		HP/KW Space Heater/Air Handler
0		Baseboard Heat
0		HP Motors 1/4 HP
0		KW Transformer/Generator
0		AMP Service
0		AMP Subpanels
0		AMP Motor Control Center
0		KW Elect Sign/Outline Light
0		Other

B. ELECTRICAL CHARACTERISTICS
Use Group - Present A-3 Proposed A-3
[] Pole/Pad # [] Temporary [] Other
Building Occupied as Utility Co.
Estimated Cost of Electrical Work \$ 450

JOB SUMMARY (Office Use Only)

PLAN REVIEW

☒ No Plans Required
Joint Plan Review Required:

INSPECTIONS
Type Failure Failure Approval Initial

[] Bldg [] Plumb
[] Fire [] Elevator
[] Elect Plans Approved
Date: 6-20-03

Approved By: [Signature]
SUBCODE APPROVAL
[] CO [Signature] CA
Date: 6-30-03

Approved By: [Signature]
Final
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.

Paid [] Check #
Collected by: Administrative Surcharge \$
Minimum Fee \$
TOTAL FEE \$ 40
DCA State Permit Fee \$

Applicant's Signature/Contractor's Seal and Signature
[] Licensed Electrical Contractor [] Exempt Applicant

TOWNSHIP OF BRICK
404 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

Access From

COOPER & SONS
DAVES

UCC NEW JERSEY
ELECTRICAL
SUBCODE
TECHNICAL SECTION

Date Received 07/19/2002
Date Issued 8/12/02
Control # C22-70-1
Permit # 02-322/7A

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

Block 670 Lot 9.02 Qual

Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A

PLG/ELEC/FIRE REVIEW ALL CARACCIOLLO

Owner in Fee EIGHTEENTH VENTURE SUPER-CELL

Address 1195 ROUTE 70 SUITE 2000 732-887-0868

LAKEMOOD, NJ 08701-

Tele. (332)458-9638 Fax ()

Contractor AG ELECTRIC INC. RICK

Address 2 MAYPINK LANE

HOMELL, NJ 07731-

Tele. (332)458-9638

Lic. No. or Bldrs. Reg. No. 10285

Federal Emp. No.

COMMERCIAL

B. ELECTRICAL CHARACTERISTICS
Use Group - Present Proposed A-3
[] Pole/Pad # [] Temporary [] Other
Building Occupied as Utility Co.
Estimated Cost of Electrical Work \$ 105,000

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[] No Plans Required
Joint Plan Review Required:

[] Bldg [] Plumb
[] Fire [] Elevator

Elect Plans Approved
Date: 8/15/02
Approved By: [Signature]

SUBCODE APPROVAL
CO [] CC [] CA
Date: 6/30/03
Approved By: [Signature]

INSPECTIONS
Type Failure Dates (Month/Day)
Rough 4/4/03 TO
Temp Serv 3/6/03 TO
Service 5/20/03 TO
Final 6/30/03
Temp. Cut-in-Card Date Issued 5/20/03
Final Cut-in-Card Date Issued

0. TECHNICAL SITE DATA
NO. SIZE

ITEM

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 UM Lights

Storable Pool/Spa/Hot Tub

KW Elect Range/Receptacle

KW Oven/Surface Unit

KW Elect Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

Baseboard Heat

HP Motors 1/4 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elect Sign/Outline Light

Other 2-SUBPANEL 100AM

Other

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 UM Lights

Storable Pool/Spa/Hot Tub

KW Elect Range/Receptacle

KW Oven/Surface Unit

KW Elect Dryer/Receptacle

KW Dishwasher

HP Garbage Disposal

KW Central A/C Unit

HP/KW Space Heater/Air Handler

Baseboard Heat

HP Motors 1/4 HP

KW Transformer/Generator

AMP Service

AMP Subpanels

AMP Motor Control Center

KW Elect Sign/Outline Light

Other 2-SUBPANEL 100AM

Other

FEE (Office Use Only)

5.14 up date

Phone Sign
Data
UCC

Administrative Surcharge \$

Minimum Fee \$

TOTAL FEE \$ 1,590

DCA Training Fee \$

4-4-03 WALLS - Ceiling.

NO METAL STUD WALL IN KITCHEN YET

4/10/03 PARTIAL RW - COOKLINE WALL ONLY OK SS
REMOVED BE ABOUT NEEDED FOR
AVAILABLE GALT CURRENT INFORMATION
BEFORE TO CALL FOR TEMP SERVICE

② TEMP SERVICE INCOMPLETE

4/21/03

R/W METAL STUD WALL

5/15/03 PARTIAL
OPEN CEILING APPROVED

5/16/03 REST OPEN CEILING APPROVED

FILL UP DATES FOR ALL WORK -
SPONSOR TO BE RE WARD FOR PERMITS
HARDWARE EQUIPMENT

5/19/03 CALLED RICK RE WARD FOR
PERMITS FOR ALL EQUIPMENT
INSTALLED

100401328

Change of Contractor



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 670 Lot 02
Work Site Location 960 Cedarbridge Av. Bldg. 4-A
Owner in Fee/Occupant Brick North Venture
Address 1195 Rt. 70 Suite 2000
Lakewood N.J. 08701
Tele. (732) 458-4638
Contractor Oscar's Electrical Service, Inc.
Address 253 River Av. 08701
Lakewood N.J.
Tele. (732) 363-6642 Fax (732) 901-0106
Lic. No. 8019
Federal Emp. No. 223148825
B. ELECTRICAL CHARACTERISTICS
Use Group Present _____ Proposed _____
☐ Pole/Pad # _____ ☐ Temporary ☐ Other _____
Building Occupied as _____ Utility Co. _____
Est. Cost of Elec. Work \$ 4000-

JOB SUMMARY (Office Use Only)
PLAN REVIEW Date Initial INSPECTIONS Type: Failure Failure Approval Initial
☐ No Plans Required
Joint Plan Review Required: _____
☐ Building ☐ Plumbing Temp. Serv. _____
☐ Fire ☐ Elevator Constr. Serv. _____
☐ Elec. Plans Approved TCO _____
Date: _____ Other _____
Approved by: _____ Service _____
Final _____
SUBCODE APPROVAL
☐ CO ☐ CCO ☒ CA
Date: 6-30-03 Temp. Cut-in-Card Date Issued _____
Final Cut-in-Card Date Issued _____
Approved by: VNA 5-20-03 6-30-03

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

D. TECHNICAL SITE DATA



Date Received
Date Issued
Control #
Permit #

QTY	SIZE	ITEMS
		Lighting Fixtures
		Receptacles
		Switches
		Detectors
		Light Poles
		Motors—Frac. HP
		Emergency & Exit Light
		Communications Points
		Alarm Devices/F.A.C. Panel
		TOTAL NUMBERS
		Pool Permit/with UV 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 1/4 HP
		KW Transformer/Generator
		AMP Service - only
		AMP Subpanels
		AMP Motor Control Center
		KW Elec. Sign/Outline Light

Administrative Surcharge \$
Minimum Fee \$
DCA Training Fee \$
TOTAL FEE \$

FEE (Office Use Only)

02-3221+A
02-3221+A

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
ELECTRICAL
SUBCODE
TECHNICAL SECTION

Date Received 01/30/2003
Date Issued 5/18/03
Control # C31-96
Permit # 03-2207

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

D. TECHNICAL SITE DATA

FEE (Office Use Only)

Block 670 Lot 9.02 Qual

NO. SIZE

ITEM

Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A

Lighting fixtures

Receptacles

Owner in Fee EIGHTEENTH VENTURE

Switches

Detectors

Address 1195 ROUTE 70 SUITE 2000

Light Poles

Motors-Fract HP

LAKEMOOD, NJ 08701-

Emergency & Exit Lights

Communications Points

Tele. ()

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Contractor LOCKRITE SECURITY

Pool Permit/with UM Lights

Storable Pool/Spa/Hot Tub

Address 1 CDDINGTON AVE

KW Elect Range/Receptacle

KW Oven/Surface Unit

PLAINFIELD, NJ 07060-

KW Elect Water Heater

KW Elect Dryer/Receptacle

Tele. ()

KW Dishwasher

HP Garbage Disposal

Lic. No. or Bldrs. Reg. No.

KW Central A/C Unit

HP/KW Space Heater/Air Handler

Federal Emp. No. 22-2382859

Baseboard Heat

HP Motors 1/4 HP

B. ELECTRICAL CHARACTERISTICS

KW Transformer/Generator

AMP Service

Use Group - Present 8 Proposed 8

AMP Subpanels

AMP Motor Control Center

[] Pole/Pad # [] Temporary [] Other

KW Elect Sign/Outline Light

Other

Building Occupied as Utility Co.

Other

Estimated Cost of Electrical Work \$ 3,490

Other

JOB SUMMARY (Office Use Only)

Other

PLAN REVIEW

Other

Joint Plan Review Required:

Other

[] Bldg [] Plumb

Other

[] Fire [] Elevator

Other

[] Elect Plans Approved

Other

Date: 2/19/03

Other

Approved By: [Signature]

Other

SUBCODE APPROVAL

Other

[] CO [] CCO [] CA

Other

Date: 6/30/03

Other

Approved By: [Signature]

Other

Final

Other

Temp. Cut-in-Card Date Issued

Other

Final Cut-in-Card Date Issued

Other

Approved By: [Signature]

Other

C. CERTIFICATION IN LIEU OF OATH

Other

I hereby certify that I am the (agent of) owner of record and am authorized

Other

to make this application and perform the work listed on this application.

Other

Applicant's Signature/Contractor's Seal and Signature

Other

[] Licensed Electrical Contractor [] Exempt Applicant

Other

Paid [] Check #

Collected by:

Administrative Surcharge \$

Minimum Fee \$

TOTAL FEE \$

DCA State Permit Fee \$

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

Other



**ELECTRICAL
SUBCODE
TECHNICAL SECTION**



Date Received
Date Issued
Control #
Permit #

5/29/03

03-2204

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

Block 670 Lot 9.01 Building 4A

Work Site Location BRICK NJ

Owner In Fee/Occupant NORTH COUNTRY TRADING / FAMOUS DAVE'S REST

Address 24 VIET DR HILLSBOROUGH NJ 08844

Tele. (732) 262-7485

Contractor TELECOM GLOBAL SERVICES

Address 354 MONROE AVE

KENILWORTH NJ 07033

Tele. (908) 272-2008 Fax (908) 272-1989

Lic. No. 222 755 285

Federal Emp. No. 222 755 285

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

☒ No Plans Required Type: Rough Failure Approval Initial

Joint Plan Review Required: Temp. Serv. Constr. Serv. TCO Other Service Final

☐ Building ☐ Plumbing ☐ Fire ☐ Elevator

☐ Elec. Plans Approved Date: 5/29/03

Approved by:

SUBCODE APPROVAL

☐ CO ☐ CCO ☒ CA

Date: 6/30/03

Approved by:

Temp. Cut-In-Card Date Issued 6/30/03

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.

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—Frac. HP

Emergency & Exit Lights

Communications Points

Alarm Devices/F.A.C. Panel

TOTAL NUMBERS

Pool Permit/with UV Lights

Storage Pool/Spa/Hot Tub

KW Elec. Range/Receptacle

KW Over/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)

\$ 35

Administrative Surcharge	\$
Minimum Fee	\$
DCA Training Fee	\$
TOTAL FEE	\$ <u>35</u>

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
BUILDING
SUBCODE
TECHNICAL SECTION

Date Received 07/19/2002
Date Issued 8/23/02
Control # C22-70
Permit # 02-3221

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

Block 670 Lot 9.02
Qual
Work Site Location 960 CEDARBIDGE AVE-BLDG 4-A
NEW RESTAURANT FAMOUS DAVE

Owner in Fee EIGHTEENTH VENTURE
Address 1193 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-

Tele. ()
Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-

Tele. (732) 935-1440 Fax (732) 935-1475
Lic. No. or Bldgs. Reg. No.
Federal Emp. No. 22-3345872

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)
☒ All	8/20/02		Type	Failure
☐ Footing			Footing	Initial
☐ Foundation			Foundation	
☐ Frame			Slab	
☐ Other			Frame	
Joint Plan Review Required:			Barrierfree	
☐ Elect ☐ Plumb ☐ Fire			Insulation	
SUBCODE APPROVAL ☐ Elev			Finishes	
☐ CO ☐ CCO ☐ CA			Energy	
			Mechanical	
			TCO	
			Other	
			Final	
			Barrierfree	

B. BUILDING CHARACTERISTICS

Use Group	Present	A-3	Proposed	A-3
Constr. Class	Present		Proposed	
No. of Stories	1		2	
Height of Structure	21 Ft.		425.000	
Area Largest Floor	6,000 Sq. Ft.		425.000	
New Bldg. Area/All Floors	6,000 Sq. Ft.		425.000	
Volume of New Structure	92,800 Cu. Ft.		425.000	
Total Land Area Disturbed	0 Sq. Ft.		425.000	

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

NEW RESTAURANT BLDG 4-A "FAMOUS DAVES"
FOOTING AND FOUNDATION ONLY PER DAN NEWMAN OK 08-20-02

Need Truss Drawings Showing
Bracing Before Further Work.

TYPE OF WORK	FEE (Office Use Only)
☒ New Building	2,070
☐ Addition	0
☐ Alteration	0
☐ Roofing	0
☐ Siding	0
☐ Fence	0
☐ Sign	0
☐ Pool	0
☐ Asbestos Abatement Subchapter 8	0
☐ Lead Haz. Abatement NJAC 5:17	0
☐ Other	0
☐ Demolition	0

Est. Cost of Bldg. Work:	Administrative Surcharge
1. New Bldg. \$ 425.000	\$ 0
2. Alteration \$ 0	\$ 0
3. Total (1+2) \$ 425.000	\$ 0
	\$ 2,070
	\$ 157

**TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS**

**UCC-NEW JERSEY
BUILDING
SUBCODE
TECHNICAL SECTION**

Date Received 07/19/2002
Date Issued 8/13/02
Control # C22-70
Permit # 07-3551

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

Block 610 Lot 3.02
Qual
Work Site Location 960 CEDARHURST AVE-BLOC 4-A
NEW RESTAURANT FAMOUS DAY
Owner in Fee EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKENOOD, NJ 08701
Tele. ()
Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724
Tele. (732) 935-1440 Fax (732) 935-1475
Lic. No. of Bldgs. Reg. No.
Federal Emp. No. 22-3345372

JOB SUMMARY (Office Use Only)
PLAN REVIEW Date Initial
☒ No Plans Req. 8-20-02 JTB
☒ All
☐ Footing
☐ Foundation
☐ Slab
☐ Frame
☐ Other
Joint Plan Review Required:
☐ Elect ☐ Plumb ☐ Fire
SUBCODE APPROVAL ☐ Elev
☐ CO ☐ CCO ☐ CA
Date:
Approved By:

INSPECTIONS	Dates (Month/Day)	Initial
Type	Failure	Failure Approval
Footing		
Foundation		
Slab		
Frame		
Barrierfree		
Insulation		
Finishes		
Energy		
Mechanical		
TCO		
Other		
Final		
Barrierfree		

B. BUILDING CHARACTERISTICS
Use Group Present A-3 Proposed A-3
Const. Class Present Proposed
No. of Stories 1
Height of Structure 21 Ft.
Area Largest Floor 9,000 Sq. Ft.
New Bldg. Area/All Floors 9,000 Sq. Ft.
Volume of New Structure 82,800 Cu. Ft.
Total Land Area Disturbed 9 Sq. Ft.

Est. Cost of Bldg. Work:
1. New Bldg. \$ 425,000
2. Alteration \$ 0
3. Total (1+2) \$ 425,000
Industrialized Building:
☐ State Approved
☐ HUD

C. CERTIFICATION IN LIEU OF CATH
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**

NEW RESTAURANT BLOC 4-A "FAMOUS DAYES"
FOOTING AND FOUNDATION ONLY PER DAN HERMAN OK 08-20-02

*Need Truss Drawings showing
Permitting Before Further Work*

TYPE OF WORK	FEE (Office Use Only)
☒ New Building	2,070
☐ Addition	0
☐ Alteration	0
☐ Roofing	0
☐ Siding	0
☐ Fence 0 Height (exceeds 6')	0
☐ Sign 0 Sq. Ft.	0
☐ Pool	0
☐ Asbestos Abatement Subchapter 8	0
☐ Lead Haz. Abatement NJAC 5:17	0
☐ Other	0
☐ Demolition	0

Paid ☐ Check \$ Administrative Surcharge \$
Collected by: Minimum Fee \$
TOTAL FEE \$ 2,070
OCA State Permit Fee \$ 157
U.C.C. #110 (rev. 3/96)

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
BUILDING
SUBCODE
TECHNICAL SECTION

Date Received 08/20/2002
Date Issued 8/21/02
Control # C22-70-1
Permit # 02-3221

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

Block #10 Lot 9.02 Qual
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A

Owner in Fee EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
BLDG/PLG/ELEC REVIEW

Tele. ()
LAKEMOOD, NJ 08701-

Contractor DESIGN LINE CONSTRUCTION
Address 9 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-

Tele. (732)935-1440 Fax (732)935-1475
Lic. No. of Bldgs. Reg. No.
Federal Emp. No. 22-3345372

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial
☒ All 8-20-02 EJA

INSPECTIONS	Dates (Month/Day)	Initial
Type	Failure	Failure Approval
☒ Footing		
☐ Foundation		
☐ Frame		
☐ Other		
Joint Plan Review Required:		
☐ Elect ☐ Plumb ☐ Fire		
SUBCODE APPROVAL ☐ Elev		
☐ CO ☐ CCO ☐ CA		
Date:		
Approved By:		
TCO		
Other		
Final		
Barrierfree		

B. BUILDING CHARACTERISTICS	Present	Proposed A-3	Est. Cost of Bldg. Work:
Use Group			
Constr. Class	Present	Proposed	
No. of Stories	0	0	1. New Bldg. \$
Height of Structure	0 Ft.	0 Ft.	2. Alteration \$
Area Largest Floor	0 Sq. Ft.	0 Sq. Ft.	3. Total (1+2) \$
New Bldg. Area/All Floors	0 Sq. Ft.	0 Sq. Ft.	
Volume of New Structure	0 Cu. Ft.	0 Cu. Ft.	Industrialized Building:
Total Land Area Disturbed	0 Sq. Ft.	0 Sq. Ft.	☐ State Approved
			☐ HUD

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

BUILDING REVIEW ONLY FOR FAMOUS DAVES
FOOTING AND FOUNDATION ALREADY ISSUED

Need Truss Drawings
Showing Blocking

TYPE OF WORK	Height (exceeds 6')	FEE (Office Use Only)
☐ New Building		
☐ Addition		
☒ Alteration		
☐ Roofing		
☐ Siding		
☐ Fence	0	
☐ Sign	0 Sq. Ft.	
☐ Pool		
☐ Asbestos Abatement Subchapter 6		
☐ Lead Haz. Abatement NJAC 5:17		
☐ Other		
☐ Demolition		

Paid ☐ Check # Administrative Surcharge \$
Collected by: Minimum Fee \$
TOTAL FEE \$
DCA State Permit Fee \$
U.C.C. F110 (rev. 3/96)

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
BUILDING
SUBCODE
TECHNICAL SECTION

Date Received 08/20/2002
Date Issued 8/27/02
Control # C22-76-1
Permit # 112-322/

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

Block 019 Lot 9.02 Qual
Work Site Location 560 CEDARBRIDGE AVE-BLDG 4-A
BLDG/PLG/ELEC REVIEW

Owner in Fee EIGHTEENTH VENTURE
Address 1195 ROUTE 70 SUITE 2000
LAKESIDE, NJ 08701-

Tele. ()
Contractor DESIGN LINE CONSTRUCTION
Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-

Telco. (732)935-1440 Fax (732)935-1475
Lic. No. of Bldrs. Reg. No.
Federal Emp. No. 22-3345372

JOB SUMMARY (Office Use Only)

PLAN REVIEW	Date	Initial	INSPECTIONS	Dates (Month/Day)
☐ No Plans Req.			Type	Failure Failure Approval Initial
☒ All <u>22-02 EFW</u>			Footings	
☐ Footing			Foundation	
☐ Foundation			Slab	
☐ Frame			Frame	
☐ Other			BarrierFree	
Joint Plan Review Required:			Insulation	
☐ Eject ☐ Plumb ☐ Fire			Finishes	
SUBCODE APPROVAL ☐ Elev			Energy	
☐ CO ☐ CCO ☐ CA			Mechanical	
Date:			TCO	
Approved By:			Other	
			Final	
			BarrierFree	

B. BUILDING CHARACTERISTICS

Use Group	Present	Proposed	A-3	Est. Cost of Bldg. Work:
Constr. Class	Present	Proposed		1. New Bldg. \$
No. of Stories	0	0		2. Alteration \$
Height of Structure	0 ft.	0 ft.		3. Total (+/-) \$
Area Largest Floor	0 Sq. Ft.	0 Sq. Ft.		
New Bldg. Area/All Floors	0 Sq. Ft.	0 Sq. Ft.		
Volume of New Structure	0 Cu. Ft.	0 Cu. Ft.		
Total Land Area Disturbed	0 Sq. Ft.	0 Sq. Ft.		

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

BUILDING REVIEW ONLY FOR FABRIC DATES
FOOTING AND FOUNDATION ALREADY ISSUED

NERD TRUSS DRAWINGS
Showing Blocking

TYPE OF WORK	FEE (Office Use Only)
☐ New Building	\$
☐ Addition	\$
☒ Alteration	\$
☐ Roofing	\$
☐ Siding	\$
☐ Fence	\$
☐ Sign	\$
☐ Pool	\$
☐ Asbestos Abatement Subchapter 9	\$
☐ Lead Haz. Abatement NJAC 5:17	\$
☐ Other	\$
Other	\$
☐ Demolition	\$

Administrative Surcharge \$

Minimum Fee \$

TOTAL FEE \$

DCJ State Permit Fee \$

U.C.C. F110 (rev. 3/96)

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
BUILDING
SUBCODE
TECHNICAL SECTION

Date Received 12/20/2002
Date Issued 01/01/1954
Control # 01-21-03
Permit # 02-3221+B

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

Block 670 Lot 9.02 Bual
Work Site Location 960 CEDARBRIDGE AVE-Bldg 4-A
NEW RESTAURANT FAMOUS DAVE

Owner in Fee EIGHTEENTH VENTURE

Address 1195 ROUTE 70 SUITE 2000

LAKENOOD, NJ 08701-

Tale. ()

Contractor DESIGN LINE CONSTRUCTION

Address 8 E INDUSTRIAL WAY 2ND FLOOR

EATONTOWN, NJ 07724-

Tale. (732)935-1440 Fax (732)935-1475

Lic. No. of Bldrs. Reg. No.

Federal Emp. No. 22-3345372

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial

☒ No Plans Req. 1-16-03 Eng

☒ All

☐ Footing

☐ Foundation

☐ Frame

☐ Other

Joint Plan Review Required:

☐ Elect ☐ Plumb ☐ Fire

SUBCODE APPROVAL ☐ Elev

☐ CD ☐ CCO ☐ CA

Date:

Approved By:

INSPECTIONS

Type

Footing

Foundation

Slab

Frame

BarrierFree

Insulation

Finishes

Energy

Mechanical

TCO

Other

Final

BarrierFree

Dates (Month/Day)

Failure Failure Approval Initial

Est. Cost of Bldg. Work:

1. New Bldg. \$ 10

2. Alteration \$ 0

3. Total (1+2) \$ 10

Industrialized Building:

☐ State Approved

☐ HUD

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

CHANGE OF FOOTPRINT - NO CHANGE IN SQUARE FOOTAGE

FEE (Office Use Only)

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

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\$ 0

\$ 0

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
BUILDINGS
SUBCODE
TECHNICAL SECTION

Date Received 12/20/2002
Date Issued 01/01/1954
Control 0 01-21-03
Permit 0 02-3821+8

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

Block 670 Lot 9.02 Dual

Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A

NEW RESTAURANT FARIUS DAY

Owner in Fee EIGHTEENTH VENTURE

Address 1195 ROUTE 70 SUITE 2000

LAKEWOOD, NJ 08701-

Tele. ()

Contractor DESIGN LINE CONSTRUCTION

Address 8 E INDUSTRIAL WAY 2ND FLOOR

EAUNTON, NJ 07724-

Tele. (732) 935-1440 Fax (732) 935-1475

Lic. No. or Bldg. Reg. No.

Federal Emp. No. 22-3345372

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial

☒ No Plans Req.

☒ All

☒ Footing

☐ Foundation

☐ Frame

☐ Other

Joint Plan Review Required:

☐ Elect ☐ Plumb ☐ Fire

SUBCODE APPROVAL ☐ Elev

☐ CO ☐ CCO ☐ CA

Date:

Approved By:

INSPECTIONS

Type

Footing

Foundation

Slab

Frame

BarrierFree

Insulation

Finishes

Energy

Mechanical

TCO

Other

Final

BarrierFree

Dates (Month/Day)

Failure Failure Approval Initial

Est. Cost of Bldg. Work:

1. New Bldg. \$ 10

2. Alteration \$ 0

3. Total (1+2) \$ 10

TYPE OF WORK

☒ New Building

☐ Addition

☐ Alteration

☐ Roofing

☐ Siding

☐ Fence

☐ Sign

☐ Pool

☐ Asbestos Abatement Subchapter 8

☐ Lead Haz. Abatement NJAC 5:17

☐ Other

Other

☐ Demolition

FEE (Office Use Only)

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C. CERTIFICATION IN LIEU OF DATA
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

CHANGE OF FOOTPRINT - NO CHANGE IN SQUARE FOOTAGE

Administrative Surcharge \$ 0
Planning Fee \$ 35
TOTAL FEE \$ 35
Collected by: \$ 0
OCA State Permit Fee \$ 0

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
BUILDINGS
SUBCODE
TECHNICAL SECTION

Date Received 12/20/2002
Date Issued 01/01/1994
Control 0
Permit # 02-3221*B

01-21-03

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

Block 670 Lot 9.02 Subd

Block Site Location 960 CEDARBRIDGE AVE-BLKS 4-4

NEW RESTAURANT FARMUS DAY

Owner in Fee EIGHTEENTH VENTURE

Address 1195 ROUTE 70 SUITE 2000

LAKEWOOD, NJ 08701-

Tele. ()

Contractor DESIGN LINE CONSTRUCTION

Address 8 E INDUSTRIAL WAY 2ND FLOOR

EDMUNDS, NJ 07724-

Tele. (732) 735-1440 Fax (732) 735-1475

Lic. No. or Bldg. Reg. No.

Federal Eqp. No. 22-3345372

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial

☒ No Plans Req. 1-16-03 EMM

☒ All

☐ Footing

☐ Foundation

☐ Frame

☐ Other

Joint Plan Review Required:

☐ Elect ☐ Plumb ☐ Fire

SUBCODE APPROVAL ☐ Elev

☐ CD ☐ CCO ☐ CA

Date:

Approved By:

INSPECTIONS

Type

Footing

Foundation

Slab

Frame

Barrierfree

Insulation

Finishes

Energy

Mechanical

TCO

Other

Final

Barrierfree

Dates (Month/Day)

Failure

Failure

Approval

Initial

TYPE OF WORK

☒ New Building

☐ Addition

☐ Alteration

☐ Roofing

☐ Siding

☐ Fence

☐ Sign

☐ Pool

☐ Asbestos Abatement Subchapter 8

☐ Lead Haz. Abatement NJAC 5:17

☐ Other

Other

☐ Demolition

C. CERTIFICATION IN LIEU OF DATA
I hereby certify that I as the (agent of) owner
of record and am authorized to make this application.

Signature

D. TECHNICAL SITE DATA
DESCRIPTION OF WORK

CHANGE OF FOOTPRINT - NO CHANGE IN SQUARE FOOTAGE

FEE (Office Use Only)

\$

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Administrative Surcharge \$
Paid ☐ Check # \$
Collected by: \$
Hudson Fee \$
TOTAL FEE \$
DCA State Permit Fee \$

Called 1/17/03

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
BUILDING
SUBCODE
TECHNICAL SECTION

Date Received 12/20/2002
Date Issued 01/01/1954
Control # 01-21-03
Permit # 02-3221+B

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

Block 670 Lot 9.02
Work Site Location 960 CEDARBRIDGE AVE-BLUB 4-A
NEW RESTAURANT FAMOUS DAW

Owner in Fee EIGHTEENTH VENTURE

Address 1195 ROUTE 70 SUITE 2000
LAKEWOOD, NJ 08701-

Tele. ()

Contractor DESIGN LINE CONSTRUCTION

Address 8 E INDUSTRIAL WAY 2ND FLOOR
EATONTOWN, NJ 07724-

Tele. (732) 935-1440 Fax (732) 935-1475

Lic. No. or Bldrs. Reg. No.

Federal Emp. No. 22-3345372

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial

☒ No Plans Req. 1-16-03 EM

☒ All

☐ Footing

☐ Foundation

☐ Frame

☐ Other

Joint Plan Review Required:

☐ Elect ☐ Plumb ☐ Fire

SUBCODE APPROVAL ☐ Elev

☐ CD ☐ CC0 ☐ CA

Date:

Approved By:

INSPECTIONS

Type

Footing

Foundation

Slab

Frame

BarrierFree

Insulation

Finishes

Energy

Mechanical

TC0

Other

Final

BarrierFree

Dates (Month/Day)

Failure Failure Approval Initial

B. BUILDING CHARACTERISTICS

Use Group Present A-3 Proposed A-3

Constr. Class Present Proposed

No. of Stories 0

Height of Structure 0 Ft.

Area Largest Floor 0 Sq. Ft.

New Bldg. Area/All Floors 0 Sq. Ft.

Volume of New Structure 0 Cu. Ft.

Est. Cost of Bldg. Work:

1. New Bldg. \$ 10

2. Alteration \$ 0

3. Total (1+2) \$ 10

Industrialized Building:

☐ State Approved

☐ HUD

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

CHANGE OF FOOTPRINT - NO CHANGE IN SQUARE FOOTAGE

TYPE OF WORK

☒ New Building

☐ Addition

☐ Alteration

☐ Roofing

☐ Siding

☐ Fence 0 Height (exceeds 6')

☐ Sign 0 Sq. Ft.

☐ Pool

☐ Asbestos Abatement Subchapter 8

☐ Lead Haz. Abatement NJAC 5:17

☐ Other

Other

☐ Demolition

FEE (Office Use Only)

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

\$ 0

Administrative Surcharge

\$ 0

Minimum Fee

\$ 35

TOTAL FEE

\$ 35

DCA State Permit Fee

\$ 0

TOWNSHIP OF BRICK
401 CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS

UCC NEW JERSEY
BUILDING
SUBCODE
TECHNICAL SECTION

Date Received 07/19/2002
Date Issued 8/23/02
Control # C23-10
Permit # 3221

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

Block 670 Lot 9.02 Qwa1
Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A

NEW RESTAURANT FAMOUS DAVE

Owner in Fee EIGHTEENTH VENTURE

Address 1195 ROUTE 70 SUITE 2000

LAKEWOOD, NJ 08701-

Tele. () -

Contractor DESIGN LINE CONSTRUCTION

Address 8 E INDUSTRIAL WAY 2ND FLOOR

EATONTOWN, NJ 07724-

Tele. (732) 935-1440 Fax (732) 935-1475

Lic. No. or Bldrs. Reg. No.

Federal Emp. No. 22-3345372

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial

☒ No Plans Req.

☒ All

☐ Footing

☐ Foundation

☐ Frame

☐ Other

Joint Plan Review Required:

☐ Elect ☐ Plumb ☐ Fire

SUBCODE APPROVAL ☐ Elev

Date: 8-6-03

Approved By: [Signature]

INSPECTIONS

Type

Failure

Dates (Month/Day)

Approval Initial

Footing

Foundation

Slab

Frame

BarrierFree

Insulation

Finishes

Energy

Mechanical

TCO

Need Truss Drawings showing
Acid Paving Before Further Work

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

NEW RESTAURANT BLDG 4-A "FAMOUS DAVES"
FOOTING AND FOUNDATION ONLY PER DAN NEWMAN OK 08-20-02

FEE (Office Use Only)

\$ 2,070

☒ New Building

☐ Addition

☐ Alteration

☐ Roofing

☐ Siding

☐ Fence

☐ Sign

☐ Pool

☐ Asbestos Abatement Subchapter 8

☐ Lead Haz. Abatement NJAC 5:17

☐ Other

Other

☐ Demolition

BarrierFree

Final

Other

BarrierFree

BarrierFree

BarrierFree

BarrierFree

BarrierFree

BarrierFree

BarrierFree

BarrierFree

B. BUILDING CHARACTERISTICS

Use Group Present A-3 Proposed A-3

Constr. Class Present Proposed

No. of Stories 1

Height of Structure 21 Ft.

Area Largest Floor 6,000 Sq. Ft.

New Bldg. Area/All Floors 6,000 Sq. Ft.

Volume of New Structure 82,800 Cu. Ft.

Total Land Area Disturbed 0 Sq. Ft.

Est. Cost of Bldg. Work:

1. New Bldg. \$ 425,000

2. Alteration \$ 0

3. Total (1+2) \$ 425,000

Industrialized Building:

☐ State Approved

☐ HUD

Administrative Surcharge

Minimum Fee

TOTAL FEE

DCA State Permit Fee

U.C.C. F110 (rev. 3/96)

225-03 Footings At Front to support Arch
Also storage Area Wall

Completed

**TOWNSHIP OF BRICK
CHAMBERS BRIDGE RD
DIVISION OF INSPECTIONS**

**UCC NEW JERSEY
BUILDING
SUBCODE
TECHNICAL SECTION**

Date Received 08/20/2002
Date Issued 8/27/02
Control # C22-70-1
Permit # 02-3224

A. IDENTIFICATION-APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING

CONTRACTORS, NOTIFY THIS OFFICE, CALL UTILITY DIG NO: 1-800-272-1000

Block 670 Lot 9.02 Quad

Work Site Location 960 CEDARBRIDGE AVE-BLDG 4-A

BLDG/PLG/ELEC REVIEW

Owner in Fee EIGHTEENTH VENTURE

Address 1195 ROUTE 70 SUITE 2000

LAKEMOOD, NJ 08701-

Tele. () -

Contractor DESIGN LINE CONSTRUCTION

Address 8 E INDUSTRIAL WAY 2ND FLOOR

EATONTOWN, NJ 07724-

Tele. (732) 935-1440 Fax (732) 935-1475

Lic. No. or Bldgs. Reg. No.

Federal Emp. No. 22-3345312

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial

☒ No Plans Req.

☒ All *8-20-02 FH*

☐ Footing

☐ Foundation

☐ Frame

☐ Other

Joint Plan Review Required:

☐ Elect ☐ Plumb ☐ Fire

SUBCODE APPROVAL ☐ Elev

☐ CO ☐ CCO ☐ CA

Date:

Approved By:

INSPECTIONS

Type

Footing

Foundation

Slab

Frame

Barrierfree

Insulation

Finishes

Energy

Mechanical

TCO

Other

Final

Barrierfree

Dates (Month/Day)

Failure Failure Approval Initial

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**

BUILDING REVIEW ONLY FOR FAMOUS DAVES FOOTING AND FOUNDATION ALREADY ISSUED

*Need Truss Drawings
Showing Blocking*

*Check for 2x4's
continuous led boards
Ground facade*

FEE (Office Use Only)

TYPE OF WORK

☐ New Building

☐ Addition

☒ Alteration

☐ Roofing

☐ Siding

☐ Fence

☐ Sign

☐ Pool

☐ Asbestos Abatement Subchapter 8

☐ Lead Haz. Abatement NJAC 5:17

☐ Other

☐ Demolition

Height (exceeds 6')

Sq. Ft.

Administrative Surcharge

Paid ☐ Check #

Collected by:

DCA State Permit Fee

TOWNSHIP OF BRICK ZONING PERMIT

Approved: July 26, 2002

No. 2.1277

Block: 670 **Lot:** 9.02

Zone: B-3, Highway Development

Property Address: 960 Cedar Bridge Avenue; Town Hall Shoppes

Applicant: J. David Slabon; Designline Construction Services, Inc.

Property Owner: North Country BBQ Ventures Brick, LLC

Existing Use: New pad site in existing shopping center.

Proposed Use: Restaurant building (#4A).

Proposed Construction: One-story restaurant building, "Famous Dave's"; 5,800 square feet, 21'3" high.

Conditions: Site plan and subdivision approved by the Planning Board.

Case No. PB-2356-PSP/FSP-2/01.

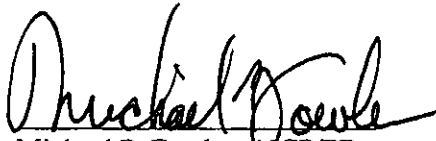
Resolution No. R-27-02 adopted on February 27, 2002.

Maps signed on June 13, 2002.

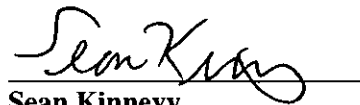
This permit is not valid until the Planning Board architectural committee reviews the architectural plans.

This permit shall be null, void and of no effect if any of the facts contained in the application upon the basis that 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, MCP/PP
Municipal Planner



Sean Kinnevy
Zoning Officer

TOWNSHIP OF BRICK ZONING PERMIT

Approved: July 26, 2002

No. 2.1277

Block: 670 Lot: 9.02

Zone: B-3, Highway Development

Property Address: 960 Cedar Bridge Avenue; Town Hall Shoppes

Applicant: J. David Slabon; Designline Construction Services, Inc.

Property Owner: North Country BBQ Ventures Brick, LLC

Existing Use: New pad site in existing shopping center.

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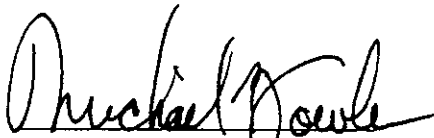
Resolution No. R-27-02 adopted on February 27, 2002.

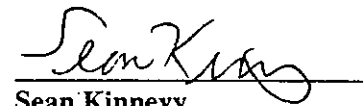
Maps signed on June 13, 2002.

This permit is not valid until the Planning Board architectural committee reviews the architectural plans.

This permit shall be null, void and of no effect if any of the facts contained in the application upon the basis that 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

TOWNSHIP OF BRICK ZONING PERMIT

Approved: December 27, 2002

No. 2.1974

Block: 670 Lot: 9.02

Zone: B-3, Highway Development

Property Address: 960 Cedar Bridge Avenue; Town Hall Shoppes

Applicant: Edward B. Jones, Jr.; Designline Construction Services, Inc.

Property Owner: 18th Venture, LLC c/o Paramount Realty

Existing Use: Vacant pad site in shopping center.

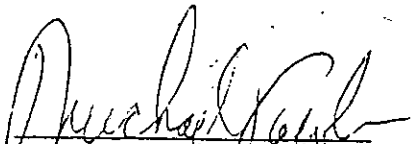
Proposed Use: Restaurant, "Famous Dave's BBQ".

Proposed Construction: Reducing foot-print of approved one-story restaurant building.

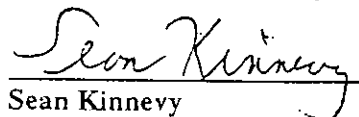
Conditions: Zoning Permit No. 2.1277 approved on July 26, 2002.

This permit shall be null, void and of no effect if any of the facts contained in the application upon the basis that this permit was granted are false or untrue in any material respect.

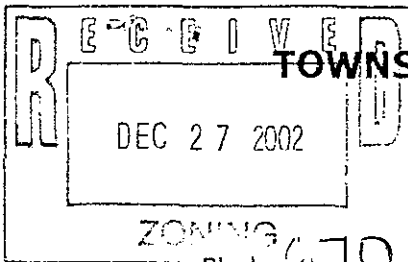
This permit shall expire one (1) year after the date of issuance if the use or substantial construction has not been commenced.



Michael P. Fowler, AICP/PP
Municipal Planner



Sean Kinnevy
Zoning Officer



TOWNSHIP OF BRICK ZONING PERMIT APPLICATION

(Please Type or Print Neatly in Ink, Not Pencil)

RESUBMIT

Applications missing any of the following information will delay processing and may be returned to you.

DATE 12/27/02

ZONING 670

Block 670 Lot 9.02 Qualifier _____

PROPERTY ADDRESS 960 Cedarbridge Avenue

PERSONAL NAME OF APPLICANT Edward B Jones Jr., Project Manager

BUSINESS NAME OF APPLICANT Designline Construction Services Inc.

PROPERTY OWNER ~~Northern County BBQ Ventures Brick LLC~~

18th Venture LLC dba Paramount Realty Svcs

PRESENT USE OF PROPERTY (check all that apply)

- ☒ Vacant Lot ☐ Single-family dwelling ☐ Multi-family dwelling
☒ Commercial (please describe) New pad site in existing shopping center

PROPOSED USE OF PROPERTY (check all that apply)

- ☐ Vacant Lot ☐ Single-family dwelling ☐ Multi-dwelling
☒ Commercial (please describe) famous Dave's BBQ Restaurant

PROPOSED CONSTRUCTION (check all that apply)

- ☐ New Building (please describe) _____
☐ Addition
☒ Alteration
☐ Porch or deck (state heights) _____
☐ Shed (state height) _____
☐ Fence (state type & height) _____
☐ Swimming Pool ☐ in-ground ☐ above-ground
☒ Other (please describe) updating application due to change in bldg. footprint
No increase in footprint or bldg. volume
Footprint being decreased in size

CHECKLIST

- ☒ All information completed above
☒ Two (2) copies of a plot plan containing:
☒ All existing and proposed structures
☒ All dimensions of the lot and structures
☒ All setbacks from the structures to the property lines
☒ All adjacent streets and waterways

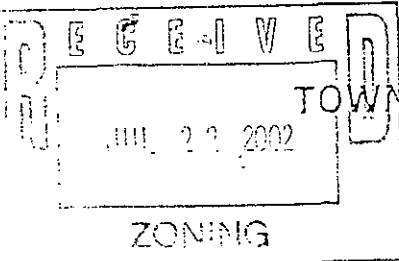
Note: No partial, taped, faxed, reduced or enlarged copies can be accepted.

☒ If applicable, include a copy of the Zoning Board of Adjustment Resolution, the date that the map was signed, and/or the date that the subdivision map was filed with the Ocean County Clerk, along with the file map and number.

The applicant certifies that all statements and information made and provided as part of this application are true to the best of the applicant's knowledge, information and belief. The applicant further states that the applicant will comply with all other Municipal approvals and ordinances, and all County, State, and Federal Regulations.

Signature of applicant Edward B Jones Jr. Date 12/27/02

Reviewed by Zoning Office JK Date 12/27/02 Approved () Denied ()



TOWNSHIP OF BRICK ZONING PERMIT APPLICATION

(Please Type or Print Neatly in Ink, Not Pencil)

Applications missing any of the following information will delay processing and may be returned to you.

Block 670 Lot 9.02 Qualifier BLDG. 4A

PROPERTY ADDRESS 960 CEDARBRIDGE AVE.

PERSONAL NAME OF APPLICANT J. DAVID SLABON, PRESIDENT + CEO

BUSINESS NAME OF APPLICANT DESIGNLINE CONSTRUCTION SERVICES, INC

PROPERTY OWNER NORTH COUNTRY BBQ VENTURES BRICK, LLC

PRESENT USE OF PROPERTY (check all that apply)

☒ Vacant Lot ☐ Single-family dwelling ☐ Multi-family dwelling

☒ Commercial (please describe) NEW PAD SITE IN EXISTING SHOPPING CENTER

PROPOSED USE OF PROPERTY (check all that apply)

☐ Vacant Lot ☐ Single-family dwelling ☐ Multi-dwelling

☒ Commercial (please describe) FAMOUS DAVE'S BAR-B-QUE RESTAURANT

PROPOSED CONSTRUCTION (check all that apply)

☒ New Building (please describe) NEW RESTAURANT TO BE BUILT ON NEWLY CONSTRUCTED PAD SITE

☐ Addition

☐ Alteration

☐ Porch or deck (state heights) _____

☐ Shed (state height) _____

☐ Fence (state type & height) _____

☐ Swimming Pool ☐ in-ground ☐ above-ground

☐ Other (please describe) _____

CHECKLIST

☐ All information completed above

☐ Two (2) copies of a plot plan containing:

☐ All existing and proposed structures

☐ All dimensions of the lot and structures

☐ All setbacks from the structures to the property lines

☐ All adjacent streets and waterways

☐ If applicable, include a copy of the Zoning Board of Adjustment Resolution, the date that the map was signed, and/or the date that the subdivision map was filed with the Ocean County Clerk, along with the file map and number. ON FILE

Note: No partial, taped, faxed, reduced or enlarged copies can be accepted.

The applicant certifies that all statements and information made and provided as part of this application are true to the best of the applicant's knowledge, information and belief. The applicant further states that the applicant will comply with all other Municipal approvals and ordinances, and all County, State, and Federal Regulations.

Signature of applicant [Signature]

Date 7-18-02

Reviewed by Zoning Office JTC

Date 7/26/02 ☒ Approved ☐ Denied

COMMERCIAL

OWNER:

North Country BBQ Ventures, LLC.
160 East 66th Street
New York, NY 10021
212-517-5655
Contact: Bob Emerson

ARCHITECT:

Janet L. Pugh, Registered Architect
239 C Southland Drive
Lexington, KY 40503
859-276-2006

MECHANICAL/ELECTRICAL:

Vaughn R. Hill, Professional Engineer
239 C Southland Drive
Lexington, KY 40503
859-276-2006

STRUCTURAL:

Kourosh Marefat, Professional Engineer
239 A Southland Drive
Lexington, KY 40503
859-277-4830

RECEIVED
JUN 25 1 46 PM '02
OCEAN COUNTY
HEALTH DEPT.
ENTER HEALTH

PROJECT MANUAL

Famous Dave's Restaurant
Cedar Bridge Avenue, Brick, NY
Project No.: 01267
06/21/02

PROJECT MANUAL
Famous Dave's Restaurant, Cedar Bridge Avenue, Brick, NJ
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-------	------------------------	----------

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Not Used

DIVISION 14 - CONVEYING SYSTEMS

Not Used

DIVISION 15 - MECHANICAL

SECTION 00100
INSTRUCTIONS TO BIDDERS

1.01 **OWNER**

- A. The Owner, as herein referred to is North Country BBQ Ventures, LLC, 160 East 66th Street, New York, NY 10021, (212) 517-5655.

1.02 **SCOPE OF WORK**

- A. The Project consists of the construction of a new restaurant facility to include dining rooms, waiting area, food preparation facilities, storage areas, service areas, service bar and related site development to include parking lot, access and service areas.

1.03 **DRAWINGS AND SPECIFICATIONS**

- A. Drawings and specifications will be on display, without charge, at the office of the Owner. One complete sets of sepia drawings and project manual may be obtained by invited bidders, from the office of the Owner. Additional sets of drawings may be obtained by payment of the actual cost of reproduction of drawings. All copies of drawings and specifications remain the exclusive property of the Owner and must be returned to him.

1.04 **QUALIFICATIONS OF BIDDERS**

- A. Bids will be received only from invited Bidders. Potential Bidders will be required to submit the completed "Contractor's Qualifications Statement", AIA Document A-305, for the examination and approval by the Owner prior to inclusion on the list of invited Bidders. Owner reserves the right to reject any Bid if evidence submitted by, or investigation of, such Bidder in Owner's sole discretion, fails to satisfy Owner that such Bidder is properly qualified to complete the Work. Conditional Bids will not be accepted.

1.05 **EXAMINATION OF SITE**

- A. Prior to the submittal of Bids, each Bidder shall make, and will be deemed to have made, a thorough examination of the Site of the Work. Submission of a Bid shall constitute acknowledgment that investigation of the Site has been made.

1.06 **EXAMINATION OF CONTRACT DOCUMENTS**

- A. Before submitting Bids, Bidders shall carefully examine the complete Contract Documents, including the drawings and project manual, and shall bring any discrepancies to the attention of the Owner. Submission of a Bid shall constitute acknowledgment that said investigation of the Contract Documents has been made.

1.07 **LAWS AND REGULATIONS**

- A. The Bidder's attention is invited to the fact that all applicable Federal and State statutes, Municipal Ordinances and the rules and regulations of all Authorities having jurisdiction in the place of construction shall apply to the Contract throughout.

1.08 **CONDITIONS OF THE WORK**

- A. Each Bidder shall inform himself fully of conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful Bidder of his obligation to furnish all material and labor necessary to complete the Contract in a satisfactory manner.

1.09 **INTERPRETATION OF DOCUMENTS**

- A. Bidders who desire further or additional information or an interpretation of the Contract Documents and their provision or intent, including drawings and specifications must request such data in writing a minimum of thirty-six (36) hours before Bids are due.

1.10 **ADDENDA**

- A. **General:** Answers to all questions, inquiries and requests for clarification or additional information will be issued in the form of ADDENDA to the Drawings and Specifications issued to all Bidders.
- B. **Oral Communications:** Neither the Architect nor the Owner will be responsible for any explanations or clarifications to the requirements of the Contract Documents, other than through the media of ADDENDA.
- C. **Acknowledgment of Receipt:** Receipt of each ADDENDUM shall be acknowledged in the Proposal Form, and each such ADDENDUM shall then be considered to be a part of the Contract Documents. Failure to acknowledge the receipt of ADDENDA which have been issued may, in Owner's sole discretion, invalidate a Bid.

1.11 **PROPOSALS**

- A. **Proposal Forms:** Bids shall be submitted in duplicate on Proposal Forms furnished by the Owner for public opening at the time and place shown on the Proposal Form. Proposal Forms, in triplicate, will be issued to each bonafide Bidder. All blank spaces in the formal Proposal Form must be completed, each Bid must be dated, signed and witnessed and bear the corporate seal if the Bidder is a corporation.
- B. **Identification of Proposal:** Completed Bid on Proposal Form shall be submitted in a sealed envelope clearly marked with the name of the project, as appears on the cover page of the Specifications, and with the name and address of the Bidder in upper left hand corner of the envelope.
- C. **Withdrawal of Bid:** A bidder may withdraw his Bid either personally, or by telegram or by written request delivered to the Owner, at any time prior to the scheduled closing time and date announced for the receipt of bids. After the time and date for receipt of Bids, no Bids may be withdrawn within a period of thirty (30) days from time and date scheduled for its receipt.

1.12 **BID SECURITY**

- A. **Intent:** Such Bid security must accompany each Bid as a guarantee that, if awarded the Contract, the Bidder will promptly enter into Contract and provide separate Performance Bond, AIA Document A311, and Payment Bond, AIA Document A311, each in the amount of one hundred (100%) percent of the Bid total and that he will not withdraw his Bid for a period of thirty (30) days after the bid date. Provide an allowance for a performance bond in the bid proposal.

1.13 **AWARD OF CONTRACT**

- A. The Contract will be awarded to the lowest and/or best qualified, responsible Bidder. The Owner reserves the right to accept any Bid, or to reject any or all of the Bids, to waive any irregularities, or informalities, in any Proposal, should he, in his sole discretion, choose to do so in service of his own best interests.

1.14 **PERFORMANCE AND PAYMENT BONDS (AIA DOCUMENTS A311)**

- A. Simultaneously with his delivery of executed Contract to the Owner, Contractor shall deliver executed Surety Bonds , each in the amount of one hundred (100%) percent of the Contract price. The Surety Companies underwriting such bonds shall be companies authorized to do business in the State in which the work is located and must maintain a corporate office in the State for the purpose of accepting legal service, and shall be surety wholly acceptable to the Owner. The Performance and Payment Bonds shall be made a part of the public record by the Contractor in accordance with all applicable laws and regulations of the State, Parish, County, Municipality, Township or other legal subdivision in which the work is located. The requirement for Performance and Payment Bonds can be waived only by written instruction and agreement by and from the Owner.

1.15 **POWER OF ATTORNEY**

- A. Attorney-in-fact who signs Bid Bonds or Performance and Payment Bonds, must file with each bond a certified and effectively dated copy of their powers of attorney.

END OF SECTION

DOCUMENT 00300
BID FORM (STIPULATED PRICE PROPOSAL)

Proposal for Stipulated Price (Lump Sum) contract for:

FAMOUS DAVE'S – BRICK, NJ (TRG #01267)

Hereinafter called "Project"

Proposal of:

Bidder _____

Address _____

City _____

hereinafter called "Bidder", * a corporation, organized and existing under the laws of the State of _____; * a partnership; * an individual doing business as _____

(* cross out inapplicable items)

TO: North Country BBQ Ventures, LLC.
160 East 66th Street
New York, NY 10021
(212) 517-5655
Attn.: Bob Emerson

Bidder, having carefully examined project drawings and specifications prepared by The Roberts Group, PSC, Lexington, Kentucky, with related documents, and having carefully examined the site of the proposed Work, and having familiarized himself with all conditions surrounding construction of the proposed Project, hereby proposes and agrees to furnish all required labor, materials, services, equipment and appliances and to construct the Project in accord with the Contract Documents, within time and at prices stated hereinafter and to cover all expenses incurred in performing the Work required by the Contract Documents of which this proposal is a part.

1. **ADDENDA**

Bidder acknowledges receipt of the following addenda:

# _____	Date _____	# _____	Date _____	# _____	Date _____
# _____	Date _____	# _____	Date _____	# _____	Date _____
# _____	Date _____	# _____	Date _____	# _____	Date _____

2. **EXTRA WORK**

Should any change in the Work or extra work be ordered, where unit prices are not applicable, the following percentage shall be added to material and labor costs to cover overhead and profit.

ALLOWANCE TO BIDDER (CONTRACTOR) FOR OVERHEAD AND PROFIT FOR EXTRA WORK PERFORMED BY BIDDER'S OWN FORCES: 10 PERCENT

ALLOWANCE TO BIDDER (CONTRACTOR) FOR OVERHEAD AND PROFIT FOR EXTRA WORK PERFORMED BY A SUBCONTRACTOR SUPERVISED BY BIDDER: 10 PERCENT.

3. **TIME OF COMPLETION**

Bidder anticipates that Work required by the Contract Documents can be completed in _____ consecutive calendar days from Contract date.

4. **BID BREAKDOWN**

For the Owner's use in comparative analysis, the following prices are comprehensive and all inclusive:

Division 1-	General Requirements	_____
1a-	General Contractor's Overhead and Profit to be included in Division 1	_____
1b-	Performance Bonds	_____
Total Division 1		_____
Division 2-	Site Work	_____
2a-	Earthwork	_____
2b-	Site Utilities	_____
2c-	Site Lighting	_____
2d-	Site Concrete / Masonry	_____
Total Division 2		_____
Division 3-	Concrete	_____
Total Division 3		_____
Division 4 -	Masonry	_____
Total Division 4		_____
Division 5-	Metals	_____
Total Division 5		_____
Division 6-	Carpentry	_____
6a-	Millwork	_____
Total Division 6		_____
Division 7-	Thermal & Moisture Protection	_____
7a-	Standing Seam Metal Roof	_____
7b-	Single Ply Membrane	_____
Total Division 7		_____
Division 8-	Doors and Windows	_____
8a-	Finish Hardware	_____
8b-	Windows and Glass	_____
Total Division 8		_____
Division 9-	Finishes (Drywall is to be included in Division 9)	_____

9a- Poured Floor (Kit)
9b- Painting/Staining

Total Division 9 _____

Division 10- Specialties

Total Division 10 _____

Division 11- Installation of all Owner
Furnished Items

Total Division 11 _____

Division 12- Furnishings

Total Division 12 _____

Division 13- Special Construction

Total Division 13 _____

Division 14- Not used

Division 15- Mechanical

15a- Plumbing

15b- Wet Sprinkler System

15c- Kitchen Hood System (Install)

15d- HVAC

15e- Refrigeration

15f- Fire Suppression System (Hood)

N/A

Total Division 15 _____

Division 16- Electrical

Total Division 16 _____

TOTAL BASE BID \$ _____

Respectfully submitted,

06/21/02

FAMOUS DAVE'S, BRICK, NJ

00300-3

CORPORATIONS ONLY
FILL IN THE FOLLOWING:

Legal Name of Corporation

State of Incorporation

Type Name of Officer

Signature of Officer

Title of Officer

Date

WITNESS:

Type Name of Witness

Address of Witness

BIDDERS (OTHER THAN CORP.)
FILL IN THE FOLLOWING:

Legal Name of Bidding Firm

Address

Type Name of Officer

Signature of Officer

Title of Officer

Date

Signature of Witness

Date

SEAL OF CORPORATION:

(Signature of Bidder, including corporation officers, must be witnessed and proposal dated to be valid.)

PART I - GENERAL

1.01 GENERAL

- A. "General Conditions of the Contract for Construction," Document A201, Latest Edition, as published by The American Institute of Architects, all Articles inclusive, form a part of these Contract Documents and are bound herein.

1.02 GENERAL BUILDING CLEANING

- A. Although each technical section of this specification requires removal of debris from premises and specific cleanup by individual trades, overall job cleanliness for duration of the work shall be the responsibility of the Contractor. Additionally, it shall be the responsibility of the contractor to thoroughly clean the entire project upon completion of the work. This shall include but not necessarily be limited to: Power sweeping the parking lot, cleaning construction debris from adjacent exterior areas, polishing all brass, cleaning all plumbing fixtures and accessories, cleaning all stainless steel fixtures, and equipment, removing all labels and layout marks, cleaning all windows and mirrors, cleaning all floors, and in general, removing all evidence of the construction process, to leave the entire premises in clean, new operating condition.

1.03 WARRANTIES AND ADDITIONAL DOCUMENTS

A. Warranties:

Certain certificates of warranties shall be required. These warranties, along with duly executed instruments properly assigning said warranties to the Owner shall be forwarded to the Owner bound in a single volume, grouped by trade and property indexed. These items shall be forwarded prior to Request for Final Payment. Contractor is directed to examine all technical sections of the specifications of the required documents. The following list is included for the contractor's convenience and does not necessarily include all required documents:

1. General Contractor's written warranty stating that the Work in its entirety is warranted for a period of one (1) year from the date of Substantial completion against all defects in materials and workmanship, all duly transferred to the Owner.
2. General Contractor and Roofing Subcontractor's joint unconditional warranty on the single ply membrane (SPM) roofing, all duly transferred to the Owner. In the event the work is performed by the General contractor's own forces, this warranty shall be from the General Contractor to the Owner.
3. Written sheet metal warranty, all duly transferred to the Owner.
4. Written termite treatment warranty, all duly transferred to the Owner, and that said treatment is renewable on a year to year basis by contract with Owner.
5. Manufacturer's warranties on air conditioning units and any other manufacturer's equipment warranties, all duly transferred to the owner.
6. Manufacturer's warranties on walk-in freezer units including compressors and any other manufacturer's equipment warranties, all duly transferred to the Owner.

7. Manufacturer's warranties on water heater tank and parts and any other manufacturer's equipment warranties, all duly transferred to the Owner.
8. Warranty and maintenance of all landscaping work, all duly transferred to the Owner.

END OF SECTION

SECTION 00800
SUPPLEMENTARY GENERAL CONDITIONS

1.01 AIA DOCUMENT A201 - GENERAL CONDITIONS OF THE CONTRACT

The General Conditions of the Contract for Construction, AIA Document A201, as bound herein, published by The American Institute of Architects, 1735 New York Avenue, N.W., Washington, D.C. 20006 is part of these Contract Documents. Where any Article of AIA General Conditions is herein amended, voided, or superseded, the provisions of such Article not so specifically amended, voided, or superseded, shall remain in effect.

The AIA General Conditions, as modified and supplemented by these Supplemental General Conditions, are for the guidance of the Contractor, shall be considered as forming a part of each Section of the Specifications and as such, shall be binding on each separate trade or subdivision of the Work insofar as it may be applicable in any way.

1.02 ARTICLE 2.4 - OWNER'S RIGHT TO CARRY OUT THE WORK

In Paragraph 2.4.1 delete the words "seven-days" and substitute the words "three (3) days". Also delete the words "the Owner may after such seven-day period give the Contractor a second written notice to correct such deficiencies within a second seven-day period. If the Contractor within such second seven-day period after receipt of such second notice fails to commence and continue to correct any deficiencies,"

1.03 ARTICLE 3.7 - PERMITS, FEES AND NOTICES

Add the following after Paragraph 3.7.1:

"The Owner shall be responsible for the entire cost of the building permit and all Bidders shall have included all sums as required for building permit and for all fees for all categories of work included in their proposals. No claim shall be permitted for permit, tap or usage fees alleged to be unavailable at the time of bidding, other than liquor or restaurant permits. Liquor and restaurant permits shall be obtained by the Owner."

1.04 ARTICLE 3.12 - SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

Add the following at end of Paragraph 3.12.5:

The Contractor shall submit one sepia transparency (reproducible) copy of each sheet of Shop Drawings to the Owner for approval by the Owner, wherever Shop Drawings, working drawings or erection drawings are required in the Technical Sections of the Specifications. The Owner shall retain copies of approved Shop Drawings and shall return sepia transparencies to the Contractor for printing as required for his own use and the use of his Subcontractors. Submittals shall be made in sufficient time to allow at least two weeks for review by Owner and return to Contractor, unless material shortages or deliver schedule necessitates special handling.

In the event circumstances necessitate special handling of a shop drawing or product data or submittal, the Contractor shall clearly indicate such requirement in the letter of transmittal to the Owner. The Contractor shall submit three sets each of samples specified to be submitted, or three sets each of manufacturer's color and finish samples, or charts and color plates not later than 30 days after the approval of proposed Subcontractors who will furnish the materials. Such samples shall be delivered to the job site, where they will be examined for approval by the Owner, and so marked if approved."

1.05 ARTICLE 4.3 - CLAIMS AND DISPUTES

Delete Paragraph 4.3.8.1 and substitute the following:

"4.3.8.1 Any claim for extension of time shall be made in writing to the Owner not more than

twenty (20) days after the commencement of the delay (and the Contractor shall provide an estimate of the probable cost, if any), and effect of such delay on the progress of the work; otherwise it shall be waived. In the case of a continuing delay only one claim is necessary."

1.06 **ARTICLE 7.3 - CONSTRUCTION CHANGE DIRECTIVES**

Add the following at the end of Paragraph 7.3.3:

"The cost or credit to the Owner resulting from a change in the Work, or extra work, not covered by unit prices; shall be based on the following percentages added to material and labor costs. Percentage allowance to the Contractor for overhead (including Bond Premiums), and profit for extra work performed by Contractor with his own forces shall be ten (10%) percent. Percentage allowance to the Contractor for overhead (including Bond Premiums) and profit for extra work performed by the Contractor's Subcontractor and supervised by the Contractor shall be ten percent (10%)."

The Contractor shall limit his Subcontractors to the following percentages:

The cost or credit to the Contractor resulting from a change in the Work, or extra work, not covered by unit prices, shall be based on the following percentages added to material and labor costs. Percentage allowance to the Subcontractor for overhead (including Bond Premiums) and profit for extra work performed by Subcontractor with his own forces shall be ten percent (10%). Percentage allowance to the Subcontractor for overhead (including Bond Premiums) and profit for extra work performed by the Subcontractor's Subcontractor and supervised by the Subcontractor shall be ten percent (10%)."

Delete Paragraph 7.3.6 and substitute the following:

"7.3.6 If none of the methods set forth in Clauses 7.3.3.1, 7.3.3.2, or 7.3.3.3 is agreed upon, the Contractor, provided he receives a written order signed by the Owner, shall promptly proceed with the Work involved. The cost of such Work shall then be determined by the Owner on the basis of the reasonable expenditures and savings of those performing the Work attributable to the change, including, in the case of an increase in the Contract Sum, a reasonable allowance for overhead and profit. In such case, and also under Clauses 7.3.3.3 AND 7.3.3.4 above, the Contractor shall keep and present, in such form as the **Owner** may prescribe, an itemized accounting together with appropriate supporting data for inclusion in a Change Order. Pending final determination of cost to the Owner, payments on account shall be made on the **Owner's Certificate for Payment**. The amount of the actual net cost shall be confirmed by the **Owner**. When both additions and credits covering related Work or substitutions are involved in any one change, the allowance for overhead and profit shall be figured on the basis of the net increase, if any, with respect to that change.

The 'cost' shall include all items of labor and materials; the amounts of subcontracts, permits, rentals of power tools and equipment, all payroll, insurance and taxes such as Welfare Funds, Unemployment Compensation, and Old Age Benefit Taxes; drayage, if required and used, freight and express. Among the items which shall be considered as overhead are insurance other than mentioned above, premiums for bond or bonds including warranties, supervisors and/or superintendents salary, timekeepers, watchmen, use of small tools, plant cost maintenance, shack and temporary facilities, including storage of materials, telephone, and any other incidental job burdens, miscellaneous expense. The Contractor shall stipulate to his Subcontractors that:

The 'cost' shall include all items of labor and materials, the amounts of Sub-subcontracts, permits, rentals of power tools and equipment, all payroll, insurance and taxes such as Welfare Funds, Unemployment Compensation, and Old Age Benefit Taxes; drayage, if required and used, freight and express. Among the items which shall be considered as overhead are insurance other than mentioned above, premiums for bond or bonds including warranties, supervisors and/or superintendent's salary, timekeepers, watchmen, use of small tools plant cost materials, telephone and any other incidental job burdens, miscellaneous expense, and general office

expense."

1.07 **ARTICLE 8.2 - PROGRESS AND COMPLETION**

Add the following Paragraphs after Paragraph 8.2.3:

"8.2.4 In the event the Owner desires to accelerate the progress of the work, the Owner shall notify the Architect and the Contractor in writing of such desire and the Contractor shall require his forces to work such overtime hours as may be necessary and the Owner's obligation on account of such acceleration shall be to reimburse the Contractor for the cost of same provided in Paragraph 8.2.4. The Contractor shall keep accurate records of such overtime hours and shall secure approval of such records on a daily basis."

"8.2.5 If the forces of the Contractor work overtime at the Owner's written direction, then the Owner will reimburse the Contractor for the premium portion of overtime wages paid to any such forces (excluding management, supervisory and clerical personnel) plus applicable Federal and State payroll taxes and other actual applicable payroll costs in connection therewith. Such premium portion of overtime wages shall not include any overhead or profit of the Contractor or his Subcontractors or any other costs or expenses. This article shall have no application to overtime work which the contractor is required to perform because of his failure to meet the Contract Schedule, or without limitation, because of any other fault of the Contractor."

1.08 **ARTICLE 9.3 - APPLICATIONS FOR PAYMENT**

Delete Paragraph 9.3.1 and substitute the following:

"9.3.1 Not later than the first day of each month, the Contractor shall submit to the Owner, on forms supplied by the Owner, an itemized "Certificate for Payment" and "Application for Payment" based on a previously approved Schedule of Values. The Certificate and Application shall be in the amount of ninety percent (90%) of the value of labor and materials incorporated in the work plus ninety percent (90%) of all stable materials suitably stored on the site up to and including the twentieth (20th) day of the previous month. The Certificate for Payment and the Application for payment shall be supported by data substantiating the Contractor's right to payment as the Owner may require."

1.09 **ARTICLE 9.8 - SUBSTANTIAL COMPLETION**

Add the following at the end of Paragraph 9.8.3:

"The Contractor shall notify the **Owner** in writing at least seven (7) days before scheduled completion that he is ready for Final Inspection. After Final Inspection, the **Owner** will certify date of Substantial Completion of AIA Document G704."

1.10 **ARTICLE 11 - INSURANCE AND BONDS**

Delete Articles 11.1.1 thru 11.3.11 in their entirety and substitute the following:

CONTRACTORS' INDEMNIFICATION

The contractor shall indemnify, defend and hold harmless

North Country BBQ Ventures, LLC its directors, officers and employees and parent and subsidiary companies from and against any and all loss or damage arising from property damage, bodily injury, death and from any and all suits, claims and demands (including costs, litigation expenses and counsel fees incurred in connection therewith) arising out of or related to the performance or non-performance of the contractor, any applicable sub-contractors or contractors' agents of the service and work which are subject of this contract. This indemnification shall apply whether or not an indemnitee was or is claimed to be passively, concurrently or actively negligent.

This indemnification shall not apply to the extent that it is void or otherwise unenforceable under applicable law and shall not apply where such injury, death, damage, liability, or claim is the result of the sole negligence or willful misconduct of an indemnitee.

INSURANCE REQUIREMENTS

The contractor shall procure, at its sole cost and expense, and shall maintain in force at all times until final acceptance by **North Country BBQ Ventures, LLC**, policies of insurance, as set forth below, written by companies duly licensed to do business in the State of New Jersey and approved by **North Country BBQ Ventures, LLC**. Such insurance companies must also be rated by A.M. Best at a minimum of B++, Financial Category VI (\$25,000,000 to \$50,000,000 policy holder surplus).

The policies of insurance must:

- 1) be written in accordance with the requirements of subparagraphs ____ below, as applicable;
- 2) be endorsed in form acceptable to **North Country BBQ Ventures, LLC**. to include a provision that the policy will not be canceled, materially changed, or not renewed without at least 30 days prior written notice to **North Country BBQ Ventures, LLC, 160 East 66th Street, New York, NY 10021**, return receipt requested;
- 3) state or be endorsed to provide that the coverage afforded under the policies shall apply on a primary and not on an excess or contributing basis with any policies which may be available to **North Country BBQ Ventures, LLC**;
- 4) be issued on an occurrence form. "Claims-Made" Coverage Forms are not acceptable.
- 5) fully disclose any applicable loss retention, deductible or Self-Insured retention. Loss Retentions, deductibles or Self-Insured retentions greater than \$25,000 will require approval from **North Country BBQ Ventures, LLC**;
- 6) state or be endorsed to provide evidence of cross liability/severability of interest clauses; and
- 7) state or be endorsed to provide a waiver of subrogation in favor of **North Country BBQ Ventures, LLC**.

REQUIRED INSURANCE COVERAGES

Unless **North Country BBQ Ventures, LLC**, consents in writing to lower limits or to the deletion of certain coverages, the types of insurance and minimum amounts of limits, required hereunder of the contractor and any and all agents and sub-contractors of the contractor are:

- A. **Statutory Workers' Compensation and Employers' Liability Insurance** - The contractor shall procure and shall maintain during the lifetime of this contract, statutory workers' compensation insurance and employers' liability insurance with a limit of at least \$1,000,000 for all of its employees to be engaged in work for the project under this contract.
- B. **General Liability Insurance** - The contractor shall procure and shall maintain during the lifetime of this contract, commercial general liability insurance on an occurrence basis with each of the Indemnified Parties listed as Additional Named Insureds, with limits of liability as listed below for injuries (bodily injuries, including death and personal injuries) to persons and for damage to property. Such policy shall include Contractual Coverage for liability assumed by the Contractor under the indemnity provisions of this contract, coverage for "XCU" risks (explosion, collapse and underground hazards), Products/Completed Operations Coverage (This coverage is to be maintained for three years following final acceptance/completion of the work performed under this contract),

Independent Contractors Coverage and shall not contain any other exclusions which are unacceptable to **North Country BBQ Ventures, LLC.**, and the contracting party.

*	\$2,000,000	Per Occurrence Combined Single Limit
*	\$2,000,000	General Aggregate Per Project
*	\$2,000,000	Products/Completed Operations Aggregate
*	\$2,000,000	Contractual Liability to cover all liabilities assumed under this contract
*	\$2,000,000	Personal Injury Liability to include coverage for employee-related claims
*	\$4,000,000	Excess (Umbrella) Liability

- C. **Comprehensive Automobile and Truck Liability Insurance** - The contractor shall procure and shall maintain during the lifetime of this contract comprehensive automobile and truck liability, with the indemnified parties listed as an Additional Named Insured, with limits of liability of not less than \$2,000,000 per occurrence on a combined single limit for bodily injury (including death) to persons and for damage to property arising out of the ownership, maintenance or use of any owned, hired, or non-owned motor vehicle.

D. **Builders' Risk**

All liability insurance may be arranged under a single policy for the full limits required or by a combination of underlying policies with the balance provided by an excess or umbrella policy. Any applicable excess and umbrella policies must not provide any less coverage than that provided by the primary policies for named or additional named insureds. Provided by owner.

All applicable defense costs or allocated loss expense are supplemental to the required limits of liability listed above.

REQUIRED DOCUMENTATION AND NOTIFICATION

Certificates of Insurance must be supplied as evidence of such aforementioned policies; however, if Requested by **North Country BBQ Ventures, LLC.**, the contractor shall deliver to **North Country BBQ Ventures, LLC.**, within 45 days of the request a copy of such policies, certified by the insurance carrier as being true and complete. The certificates of insurance must be issued on a standard "ACORD" form. The cancellation provision of the certificate of insurance must be amended to comply with the requirements listed above as follows: delete the wording "endeavor to" and "but failure to mail . . . or representatives".

At least two weeks prior to the expiration of the original policies or any renewals thereof, evidence of renewal or replacement policies of insurance with the same terms and limits as the expiring policy, shall be delivered to **North Country BBQ Ventures, LLC.**

If at any time during the period of this contract, insurance as required is not in effect, or proof thereof is not provided to **North Country BBQ Ventures, LLC** shall have the options to:

- 1) direct the contractor to suspend work with no additional cost or extension of time due on account thereof;
- 2) obtain the required insurance at contractors' expense providing **North Country BBQ Ventures, LLC.**, with coverage immediately; or
- 3) treat such failure as an Event of Default

The contractor shall immediately file with **North Country BBQ Ventures, LLC.**, a notice of any

occurrence that the contractor has notice of and is likely to result in a claim against any of the Indemnified Parties and shall also file with **North Country BBQ Ventures, LLC.**, detailed sworn proof of interest and loss within sixty (60) days from the date of loss.

1.11 **ARTICLE 11.4 - PERFORMANCE BOND AND PAYMENT BOND**

Delete Article 11.4.1 and substitute the following:

"11.4.1 Contractor shall execute and deliver to the Owner, simultaneously with the Contract, a Performance Bond and a Statutory Payment Bond, each executed in the form of AIA Document A311."

"11.4.3 Performance Bond: The Contractor shall furnish an American Institute of Architects form of Performance Bond. Such Bond shall be in the penal sum of the Contract price, signed by the Contractor as Principal and by a corporate surety satisfactory to the Owner."

"11.4.4 Labor and Material Payment Bond: The Contractor shall furnish an American Institute of Architects form of Labor and Material Payment Bond in the penal sum of the Contract price signed by the contractor as Principal and by a corporate surety satisfactory to the Owner."

END OF SECTION

SECTION 01010
WORK COVERED BY CONTRACT DOCUMENTS

PART 1 - GENERAL

1.01 INTENT OF DRAWINGS AND SPECIFICATIONS

- A. The contractor shall complete all Work as provided for in Contract Documents including Drawings and Project Manual. Anything mentioned in the Project Manual and not shown on the drawings, or shown on the Drawings and not mentioned in the Project Manual, shall be furnished and installed as if shown and mentioned in both. The contractor shall furnish all materials or labor required to complete Work shown on the drawings and called out in the Project Manual, to include labor and material requirements reasonably inferable therefrom as being necessary to complete the work, whether each and every single item necessary to completion is specified or detailed or not.

1.02 CONTRACTOR RESPONSIBILITY FOR WORK REQUIRED

- A. The organization of the Project Manual into *Divisions, Sections and Paragraphs* and the arrangement of the Drawings are not intended to control the Contractor in dividing the Work among Subcontractors or to establish the limits and extent of work to be performed by a particular trade. The Contractor alone is responsible for the completion of the entire work as drawn and specified, complete in place and in functional or operating conditions. The division of the Project Manual into sections and paragraphs is for convenience only and not for the purpose of limiting or restricting the performance of any portion of the Work to any particular trade.

END OF SECTION

SECTION 01016
CONTRACTOR USE OF PREMISES

PART 1 - GENERAL

1.01 **REQUIREMENT**

- A. Contractor coordinate use of premises for construction purposes with Owner. Because of the nature of project premises, Contractor provide Owner with complete minimum surface area requirements for his and his subcontractors use, including area requirements for:

1. Storage of materials and equipment
2. Staging
3. Employee parking
4. Refuse containers
5. Other required uses

END OF SECTION

PART I - GENERAL

- 1.01 Owner retains the right to place and install, in coordination with Contractor's construction schedule, as many items and/or as much equipment as he may require during the progress of the Work, before completion of the various parts of the Work. This shall not in any way evidence completion of the Work or any portion thereof, nor shall it signify Owner's acceptance of the Work or any portion thereof.

PART II - PRODUCTS

2.01 CATEGORIES OF ITEMS

- A. By Owner: Items shown or noted "By Owner" on the drawings and/or in the specifications shall be furnished by Owner to Contractor/subcontractor for installation by Contractor/subcontractor as part of the construction contract. Contractor/subcontractor shall receive, to the extent of unloading at the job site as required, store and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are:
1. All decorative glass and mirror panels.
 2. Safe in office.
 3. Certain light fixtures as listed in the electrical drawings on the light fixture schedule.
 4. All exhaust fans and makeup air units.
 5. Kitchen exhaust hood (or hoods).
 6. All ornamental brass handrails and foot rails.
 7. Hostess stand.
 8. P.O.S. system cabling.
 9. All loose furnishings including booths, tables and chairs. Assembly and installation by General Contractor.
 10. Interior benches & exterior benches.
 11. Vinyl wall fabric.
 12. Carpet.
 13. Kitchen and bar equipment shall be assembled and set in place true and level by Owner's representative. G.C. shall receive and install walk-in cooler/freezer and beer cooler. Connection of gas, water, electricity and exhaust devices, as shown on the Mechanical and Electrical drawings, shall be accomplished under the General Contract for Construction.
 - a) Ansul hood fire protection system by Owner.
 - b) Refrigeration & electrical by G.C., i.e. walk-in beer cooler, ice machine.
 - c) Margarita machine to be installed by others. G.C. to provide electrical service.
 14. Wood window blinds
 15. TV's and TV mounting bracket
 16. Baby changing station
- B. Not In Contract (NIC): Items shown or noted "(NIC)" on the drawings and/or in the specifications shall be furnished and installed by Owner under separate contract, except as described hereinafter. The Contractor shall receive, unload as required, store, and be responsible to the extent of carrying necessary insurance to cover items in case of theft, fire, loss, malicious damage and other miscellaneous damage. Included, but not inclusive, in this category are:
1. Sound system
 2. Electric signage except that Electrical Contractor shall provide final connections to all exterior signs.

3. Manufactured signage
4. Exterior neon except that Electrical Contractor shall provide final connections to all neon.
5. Refrigerated beer and tap system
6. Exterior awnings
7. Live plants
8. P.O.S. system
9. Burglar alarm system
10. Fire alarm system
11. Artifacts package
12. Water softener

PART III - EXECUTION

3.01 RECEIPT OF ITEMS

- A. During the course of construction, some deliveries of equipment and miscellaneous items will be made to the job site by common carrier. Contractor shall receive and inspect items for conformance to delivery ticket(s) and for damage. If during receipt any missing or damaged items are observed, Contractor shall:
 1. Make notation of any and all discrepancies on the delivery ticket(s).
 2. Call delivery carrier and advise him of the problem.
 3. Call the Owner.

END OF SECTION

PART I - GENERAL

1.01 GENERAL

- A. Allowances scheduled herein shall be included in "Base Proposal Amount" on BID FORM in accord with provisions of GENERAL CONDITIONS and provisions of various technical Sections of the Specifications. Indicate quantities and total allowance amounts where indicated on BID FORM.
- B. COST INCLUDED IN ALLOWANCES:
 - 1. Cost of product to Contractor or subcontractor, less applicable trade discounts.
 - 2. Delivery to site.
 - 3. Labor required under allowance, only when labor is specified to be included.
 - 4. Applicable taxes.

1.02 CONTRACTOR COSTS

- B. Contractor costs included in "base proposal amount"
 - 1. Products handling at site, including unloading, uncrating, and storage.
 - 2. Protection of products from elements and from damage.
 - 3. Labor for installation and finishing, except when installation is specified as part of allowance.
 - 4. Other expenses required to complete installation.
 - 5. Contractor overhead and profit.

1.03 SELECTION AND PURCHASE

- A. Owner will select suppliers and allowance items. Contractor will be notified of selections and will be required to place his order and purchase items from selected suppliers at prices agreed upon between Owner and suppliers.

1.04 RESPONSIBILITIES

- A. Owner:
 - 1. Consult with Contractor in consideration of products, suppliers, and installers as applicable.
 - 2. Select products, obtain Owner's written decision, and transmit full information to Contractor:
 - a) Manufacturer, product, model or catalog number, accessories, attachments, and finishes.
 - b) Supplier and installer as applicable.
 - c) Cost to Contractor.
- B. Contractor:
 - 1. Assist Owner in determining suppliers and installers; obtain proposals when requested.
 - 2. Make recommendations for Owner consideration.
 - 3. Promptly notify Owner of any reasonable objections against supplier or installer.
 - 4. On notification of selection execute purchase agreement with designated supplier and installer.
 - 5. Arrange for and process shop drawings, product data, and samples.
 - 6. Arrange for delivery. Promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.
 - 7. Install, adjust, and finish products.
 - 8. Provide warranties for products and installation.

1.05 **QUANTITIES AND AMOUNTS**

- A. General: Contractor furnish allowance items in quantities necessary to complete the Work required by the Construction Documents. No adjustment in the "Base Proposal Amount" will be allowed because of miscalculation of actual quantities required to complete the Work.
- B. Accounting and Adjustment: Differences between Allowance scheduled and actual cost to Contractor shall be adjusted by Change Order. Accounting and adjustment of Allowances will be a prerequisite to final payment:
1. Lump Sum Amount Allowances:
Calculate adjustment using lump sum amount and actual cost of item(s) covered by Allowance.
 2. Unit Amount Allowances:
Calculate adjustment using actual quantities required times unit Allowance and same quantities times actual unit cost.

1.06 **CASH ALLOWANCES:**

- A. Amounts and Suppliers: The Contractor shall include the following allowance in his proposal:

1. Fire Entry Box/Knox Box.....\$300.00

1.07 **SPARE MATERIALS**

- A. The Contractor shall, at the completion of the Project, provide the Owner with the following spare materials to be left at the job site properly cartoned and labeled:

1. Ceiling Tile -24" x 24" x 3/4", Type 1	2 cartons (Copper Color Acoustical)
2. Ceiling Tile - 24" x 48" x 5/8", Type 2	2 cartons
3. Ceramic Wall Tile:	5 sq. ft. each color
4. Paint	1 gallon each color

END OF SECTION

SECTION 01030
ALTERNATES/ALTERNATIVES

PART 1 - GENERAL

1.01 GENERAL

- A. Acceptance: Alternates will be exercised at option of Owner.
- B. Coordination:
Coordinate related work and modify surrounding work as required to complete the Work, including changes under each alternate, when acceptance is designated in Owner/Contractor Agreement.

1.02 ALTERNATE PROPOSALS

- A. Alternate Proposal No. 1

Should project proceed during wet weather conditions as outline in the geotechnical investigation, provide and install an eight inch (8") deep lime stabilized subgrade under all pavement for the site.

END OF SECTION

PART I - GENERAL

1.01 GENERAL

- A. General Conditions of the Contract for Construction, AIA Document A201, Article 7, all paragraphs inclusive, shall govern the work of this section, with the exception that the Owner's representative shall in all cases perform and be responsible for the duties and responsibilities of the "Architect".

1.02 WORK AUTHORIZATION

- A. In the event a change to the work is required by the Owner, a written "Work Authorization" for changes to the contract will be issued by the Owner. The authorization will include actual or estimated costs for the change and a statement of responsibility for actual cost if estimated costs are used.

1.03 CONTRACTOR RESPONSE

- A. Contractor shall respond with a formal typewritten "Contract Change Order", in triplicate, referencing authorization number, job name, date, specific items changed and shall indicate total amount of authorization imposed costs. Contractor will only be allowed an (10%) ten percent overhead and profit markup. **Backup documentation is to be submitted with all extra costs.** Two or more authorizations may be included on one change order.

END OF SECTION

PART I - GENERAL

1.01 PROJECT COORDINATION

- A. Contractor shall be responsible for the general overall coordination of the work required. It is the Contractor's responsibility to see that all of his subcontractors coordinate their work as it relates to the work of other trades.

1.02 MECHANICAL AND ELECTRICAL COORDINATION

- A. Contractor shall coordinate the leaving of openings in the building floors, roofs and walls for supply, return and exhaust ducts, piping and wiring unless otherwise noted or specified herein. It is the Contractor's responsibility to see that all of his subcontractors coordinate their work with regard to openings which are to be left in floors, roof and partitions for the proper operation of all systems and that all openings are in correct locations.

1.03 CUTTING AND PATCHING

- A. Except as otherwise specified, each subcontractor shall execute all cutting and patching in his work that may be required by others so that the engagements between the various material will be neat and proper. Cutting of any structural portions of the building shall not be permitted except as approved by the Owner. Each subcontractor shall locate and provide sleeves, suitable to the general contractor, for all holes, chases, openings, or block-outs required for the installation of their work. All such openings shall be straight, true, and of proper size. No excessive cutting will be permitted, nor shall openings be located to alter the installation of any structural member from that indicated on drawings. After the work has been installed, all openings shall be carefully patched and fitted around as directed and to the satisfaction of the Owner.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Survey and Field Engineering
- B. Submittals
- C. Quality Control
- D. Project Record Documents

1.02 QUALITY ASSURANCE

- A. Surveyor:
Employ experienced Civil Engineer or registered Land Surveyor to establish layout, lines, levels and grades, and check Contractor's placement of batterboards, grades stakes, and other controls, and to verify same from time to time during progress of construction of Work. Engineer or Surveyor shall be registered in the state of this project.
- B. Measurements:
Before ordering materials or doing any work, verify measurements at site and check same against Drawings. No extra charge will be allowed on account of differences between actual dimensions and measurements shown on Drawings. Submit any differences found to Owner for resolution before proceeding with Work.

1.03 SUBMITTALS

- A. Surveyor Name:
Submit name, address, and telephone number of Surveyor or Engineer to Owner before starting survey work.
- B. Accuracy: Submit to the Owner documentation verifying accuracy of survey work.
- C. Certification:
Submit certificate signed by Surveyor or Engineer, certifying that elevations and locations of improvements are in conformance, or non-conformance, with Contract Documents.

1.04 EXECUTION

- A. Inspection:
Verify locations of survey control points prior to starting work. Promptly notify Owner of any discrepancies discovered.
- B. Survey Control Points:
Protect survey control points prior to starting site work; preserve permanent reference points during construction. Make no changes without prior written notice to Owner. Promptly report to Owner the loss or destruction of any reference point or relocation required because of changes in grades or other reasons. Replace dislocated control points based on original survey control.
- C. Survey Requirements:
 - 1. Establish a minimum of two permanent bench marks on site, referenced to established control points. Record locations, with horizontal and vertical data, on Project Record Documents.

2. Establish lines and levels, locate and lay out by instrumentation and similar appropriate means:
 - a) Site improvements, including pavements; stakes for grading, fill and topsoil placement; and utility locations, slopes, and invert elevations.
 - b) Grid or axis for structures.
 - c) Building foundation, column locations, and ground floor elevations.

END OF SECTION

PART I - GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Procedures.
- B. Construction Progress Schedules.
- C. Schedule of Values.
- D. Shop Drawings.
- E. Product Data.
- F. Samples.

1.02 PROCEDURES

- A. Delivery Address: Deliver submittals to Owner at address listed on INVITATION TO BID.
- B. Transmittal Form and Identification:
Transmit each item using Owner-accepted transmittal form. Identify project, Contractor, sub-contractor, major supplier; identify pertinent Drawing sheet and detail number, and Specification Section number, as appropriate. Identify deviations from Contract Documents. Provide space for Contractor and Owner/Architect review stamps.
- C. Coordination:
Comply with progress schedule for submittals related to Work progress. Coordinate submittal of related items.
- D. Review:
 - 1. Contractor
 - a. General:
Review submittals prior to transmittal; determine and verify field measurements, field construction criteria, manufacturer's catalog numbers, and conformance of submittal with requirements of Contract Documents. Submittal information deviating from requirements of contract documents shall be clearly circled in red.
 - b. Coordination:
Coordinate submittals with requirements of Work and of Contract Documents.
 - c. Certification:
Apply stamp and sign or initial each sheet of shop drawings and product data, and each sample label to certify compliance with requirements of Contract Documents. Notify Owner in writing at time of submittal, of deviations from requirements of Contract Documents.

2. Owner

a. General:

Owner will review shop drawings, product data, and samples and return submittals within 10 days.

b. Acceptance and Fabrication:

Do not fabricate products or begin work which requires submittals until return of submittal with Owner's acceptance.

E. Revisions:

After Owner review of submittal, revise and resubmit as required, identifying changes made since previous submittal.

F. Distribution:

Distribute copies of reviewed submittals to concerned persons. Instruct recipients to promptly report any inability to comply with provisions.

1.03 CONSTRUCTION PROGRESS SCHEDULES

A. Construction Schedules:

Along with the INVITATION TO BID, the Owner will submit to Contractor copies of his Anticipated Construction Schedule, typically covering a period of eighteen (18) weeks.

B. Type:

Within ten (10) days after the award of the Contract for Construction the Contractor shall prepare and submit to the Owner three (3) copies of his Anticipated Construction Schedule. The Contractor shall maintain the original of this construction schedule and submit weekly updated prints of the schedule to the Owner with the "Certificate of Payment" and "Application for Payment".

Anticipated Construction Schedule to be formulated on Network analysis system using the critical path method, generally as outlined in Associated General Contractors of America (AGC) publication "The Use of CPM in Construction - A Manual for General Contractors" is preferred, but a horizontal bar chart with separate bar for each major trade or operation, identifying first work day of each week is acceptable.

C. Sequence of Construction:

Show complete sequence of construction by activity, identifying work of separate stages and other logically grouped activities.

D. Percentage of Completion:

Show projected percentage of completion for each item of work as of time of each Application for Payment.

E. Submittal Dates:

Show submittal dates required for shop drawings, product data, and samples, and product delivery dates, including those furnished by Owner.

F. Progress Reports:

The Contractor shall, on Friday of each week, complete and make distribution of a synopsis of job progress by trade category with distribution as directed by Owner. The Bennigan's Construction Progress Report form shall be completed by the Contractor's job superintendent, complete with a "Remarks" space for written communication of minor job problems and requests which can be made under field conditions. Contractor to utilize "Construction Progress Report" provided by Owner.

G. Progress Photographs:

The Contractor shall provide a sets of job progress photographs (4" x 5"), showing two (2) separate views twice per month from inception to completion of the Work. Photos shall be taken and mailed to the Owner the first and third Fridays of each month.

H. Copies Required:

1. Initial Issue

Submit three; within 10 days after date of notice to proceed. After review by Owner, revise and resubmit as required.

2. Revised

Submit three; with each Application for Payment, reflecting changes since previous submittal.

1.04 **SCHEDULE OF VALUES**

A. Form:

Typed schedule on AIA Form G703. Contractor's standard form or media-driven printout will be considered on request. Submit sample form for Owner's written approval prior to first payment request.

B. Format:

Table of contents of this Project Manual. Identify each line item with number and title of the major Project Manual Section.

C. Overhead and Profit:

Include in each line item a directly proportional amount of Contractor's overhead and profit.

D. Change Orders:

Revise schedule to list change orders, for each Application for Payment.

E. Copies Required: Same as for progress schedules.

1.05 **SHOP DRAWINGS**

A. General:

Present in a clear and thorough manner. Title each drawing with Project name and number; identify each element of drawings by reference to sheet number and detail, schedule, or room number of Contract Documents. Identify field dimensions; show relation to adjacent or critical features or work or products.

B. Copies Required:

Submit one reproducible transparency and one opaque copy of each sheet.

C. Reproduction and Distribution:

After Owner review and acceptance, reproduce and distribute in accord with "procedures" above. Owner will make and retain copies required for his own use.

1.06 **PRODUCT DATA**

A. General:

Submit only pages which are pertinent; mark each copy of standard printed data to identify pertinent products, referenced to Project Manual Section and Article number. Show reference standards, performance characteristics, and capacities; wiring and piping diagrams and controls; component parts; finishes; dimensions; and required clearances.

- B. Modifications:
Modify manufacturer's standard schematic drawings and diagrams to supplement standard information and to provide information specifically applicable to the work. Delete information not applicable.
- C. Copies Required:
Submit number Contractor requires, plus two copies which will be retained by Owner.

1.07 **SAMPLES**

- A. General:
Submit full range of manufacturer's standard finishes except when more restrictive requirements are specified, indicating colors, textures, and patterns. Submit samples to illustrate functional characteristics of products, including parts and attachments.
- B. Identification:
Label each sample with identification required for transmittal letter.
- C. Number Required:
Three sets of samples, charts, color plates and manufacturer's data.

END OF SECTION

SECTION 01410
TESTING LABORATORY SERVICES

PART I - GENERAL

1.01 **REQUIREMENTS INCLUDED**

- A. Contractor provided testing laboratory services.

1.02 **RELATED REQUIREMENTS**

- A. **GENERAL CONDITIONS:** Inspections, testing, and approvals required by public authorities.
- B. **TESTING ADJUSTING AND BALANCING OF SYSTEMS.**
- C. **CONTRACT CLOSEOUT:** Record Documents.
- D. **Individual Specifications Sections:** Inspections and tests required and standards for testing.

1.03 **REFERENCES**

- A. **ANSI/ASTM D3740** - Practice for evaluation of agencies engaged in testing and/or inspection of soil and rock as used in Engineering design and construction.
- B. **ANSI/ASTM E329** - Standard recommended practice for inspection and testing agencies for concrete, steel and bituminous materials as used in construction.

1.04 **SECTION AND PAYMENT**

- A. Contractor shall employ and pay for services of an Owner-acceptable independent testing laboratory to perform specified inspection and testing. Employment of testing laboratory in no way relieves Contractor of obligation to perform Work in accord with requirements of Contract Documents.

1.05 **QUALITY ASSURANCE**

- A. **Laboratory:**
Employ laboratory authorized to operate in state in which project is located and which maintains a full-time registered Engineer on staff to review services.
- B. **Equipment:**
Testing equipment shall be calibrated at reasonable intervals with devices of an accuracy traceable to either NBS standards or accepted values of natural physical constants.

1.06 **CONTRACTOR SUBMITTALS**

- A. Prior to start of Work, submit testing laboratory name, address, and telephone number, and names of full-time registered Engineer and responsible officer to the Owner.

1.07 **LABORATORY RESPONSIBILITIES**

- A. Test samples of mixes submitted by Contractor.
- B. Provide qualified personnel at site after due notice; cooperate with Owner and Contractor in performance of services.
- C. Perform specified inspection, sampling, and testing of products.

- D. Ascertain compliance of materials and mixes with requirements of Contract Documents.
- E. Promptly notify Owner and Contractor of observed irregularities or non-conformance of Work or products.
- F. Perform additional inspections and tests required by Owner.
- G. Attend pre-construction conferences and progress meetings when requested.

1.08 **LABORATORY REPORTS**

- A. After each inspection and test, promptly submit two copies of laboratory report to Owner and to Contractor. Include: Date issued, project title and number, name of inspector, date and time of sampling or inspection, identification of product and specifications section, location in the project, type of inspection or test, date of test, results of tests, and conformance with Contract Documents. When requested by Owner, provide interpretation of test results.

1.09 **LIMITS OF TESTING LABORATORY AUTHORITY**

- A. Laboratory may not release, revoke, alter, or enlarge on requirements of Contract Documents, approve or accept any portion of the Work, assume any duties of Contractor and has no authority to stop work.

1.10 **CONTRACTOR RESPONSIBILITIES**

- A. Deliver to laboratory at designated location adequate samples of proposed materials to be used, which require testing, together with proposed mix designs.
- B. Cooperate with laboratory personnel, and provide access to Work.
- C. Provide incidental labor and facilities to provide access to work to be tested, to obtain and handle samples at the site or at source of products to be tested, to facilitate tests and inspections, and for storage and curing of test samples.
- D. Notify Owner and laboratory 24 hours prior to expected time for operations requiring inspection and testing services.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Temporary Electricity and Lighting
- B. Temporary Heating
- C. Temporary Water
- D. Temporary Sanitary Facilities
- E. Temporary Fire Protection
- F. Payment

1.02 TEMPORARY ELECTRICITY AND LIGHTING

- A. Provide wiring, fuses, disconnect switches, safety devices, junction boxes, panel boxes, ground fault protections, and transformer if required, in connection with use of temporary electrical service for lighting and power during construction. All items and installations are to conform to the requirements of the National Electric Code, and "Occupational Safety and Health Act of 1970." Observations by the Architect/Owner, his agents, or any recognized agency indicating failure to comply with code requirements shall be cause for immediate suspension of job site operations by the Contractor until the system is in full compliance. No extension to the Contract Time shall be allowed for such suspension of job site operations.

1.03 TEMPORARY HEATING

- A. Requirement:
Provide, pay for and maintain, all temporary heating facilities required during the progress of the Work to protect materials, finished work and equipment against injury from dampness and cold. Temporary heat shall be required when the outside temperature is low enough to damage or affect in any way the performance or quality of any product or material being stored in the building, in any temporary storage area, or any material incorporated into the work. Temporary heat shall also be required when the outside temperature is low enough to significantly slow or hamper the effectiveness of workmen on the job.
- B. Use of Permanent Heating System:
Permanent heating system may be used for this purpose after completion, provided Contractor obtains written permission from Owner, and agrees to pay all charges for fuel, attendance, maintenance, repair and replacement, if necessary, to the equivalent of new conditions, including replacement of filters and cleaning of grilles and diffusers.
- C. Insurance Endorsement:
Where permanent heating system is used for Contractor's convenience, at his request and subject to Owner's acceptance, Builder's Risk Insurance Policies required under the contract documents shall be endorsed to permit said operation of such permanent equipment (other than for testing purposes) at such times and under such conditions as the Owner shall accept.

1.04 TEMPORARY WATER

- A. Provide temporary storage tanks, piping, valves, fittings, hose and hose connections as required for use of water during construction and testing.

1.05 **TEMPORARY SANITARY FACILITIES**

- A. Furnish, install and maintain ample sanitary facilities for use of workmen of all trades engaged in work under the contract. Temporary toilets shall be constructed at time work is commenced and shall be subject to applicable City Ordinances, Health Department requirements and Rules and Regulations of governing authorities by Code or otherwise. Portable facilities are subject to Owner approval.

1.06 **TEMPORARY FIRE PROTECTION**

- A. Observe and enforce compliance by all trades engaged in work under the contract with requirements of City, County, State, Federal and Insurance Underwriter's regulations to minimize fire hazards incidental to the work. Provide operable fire extinguishing devices in well-marked, accessible locations distributed throughout the project in compliance with governing codes and ordinances.

1.07 **ARRANGEMENT AND PAYMENT**

- A. The Contractor shall make all necessary arrangements and shall pay for water, electric power, gas, and sewage service during the construction of the building as may be required for use of his own forces and those of his subcontractors, and as required by them until acceptance of the work by the Owner.

END OF SECTION

PART I - GENERAL

1.01 WATCHMAN SERVICE

- A. Contractor may employ and pay for watchmen, or a watchmen's service, as he deems necessary to protect his own interests, and he shall be responsible for and pay for losses or damages to the Owner's materials or other property as a result of theft, mysterious disappearances or intrusions by strangers.

B. TEMPORARY CONTROLS

Provide barriers to prevent unauthorized entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

END OF SECTION

SECTION 01580
PROJECT IDENTIFICATION AND SIGNS

PART I - GENERAL

1.01 PROJECT SIGN FRAME

- A. Within seven days of date of notice to proceed, furnish and erect one (1) project identification signs, in a location directed by the Owner: Sign shall consist of 4x4 inch posts supporting a 4'-0" high by 8'-0" wide sheet of 3/4 inch thick exterior A/C plywood. Locate post 1'-0" from ends of plywood; 6'-0" centers. Bottom of plywood shall be at 4'-0" above grade.
- B. Framework shall receive a fabric sign to be furnished by Owner and installed by General Contractor. Installation of sign will be by wrap and staple method; long staples, closely spaced on back side.

1.02 CONTRACTOR SIGNS AND ADVERTISING

- A. Contractor and principal subcontractors may have company signs on field office, at Contractor's expense, if so desired. No other free-standing signs or advertising of any kind other than "warning" signs and notices required by law, will be permitted on the site or about the premises.

END OF SECTION

PART I - GENERAL

1.01 TEMPORARY FIELD OFFICE

- A. Contractor shall erect and maintain temporary job office in safe and sanitary condition. Include installation and payment for telephone service, an answering machine, and a FAX machine as necessary for conduct of work. Equip telephone with outside bell or other device that can be heard from locations on site remote from job office.

1.02 TEMPORARY STORAGE SHEDS

- A. Contractor shall provide, as required, at locations on premises, watertight storage sheds for storage of materials, equipment and tools, which might be damaged by exposure to weather. Provide sheds of sufficient size and capacity to hold damageable materials, which may be on site at one time. Floors shall be raised at least 6 inches above the ground. Maintain sheds in good condition and relocate from time to time as necessary. Remove sheds when no longer needed.

1.03 TEMPORARY OWNER'S OFFICE

- A. General:
Six (6) weeks prior to the scheduled opening of the Restaurant, the Contractor shall provide, pay for and maintain until directed to remove a temporary Owner's field office with furnishings, for the use of the Owner's Restaurant Manager in interviewing and hiring personnel and for the use of Owner's field personnel on the job during the period to coordinate miscellaneous owner functions.
- B. Size, Equipment and Furnishings:
The Owner's field office shall be a minimum of 10' x 44' in size, shall have three (3) sections, suitable for conducting simultaneous interviews, shall be private and have a lock keyed separately from other job-site locks. The office shall be equipped with whatever heating and/or air conditioning necessary to maintain a temperature range of 70 to 75 degrees Fahrenheit, and shall be furnished with one desk (minimum size 5'-0" x 2'-6"), one two-drawer filing cabinet, and two suitable chairs. Interior finishes shall be suitable for the intended use of the office. Exposed, unfinished wood surfaces shall be deemed unacceptable.
- C. Telephone and Utilities:
Installation of the telephone in this office shall be the responsibility of the General Contractor. General Contractor to provide two (2) communication lines and connections from restaurant building telephone board to trailer. Payment of telephones is the responsibility of the Owner. All other temporary utilities incidental to the lighting and heating or cooling of the office shall be the responsibility of the Contractor.

END OF SECTION

SECTION 01700
CONTRACT CLOSEOUT

PART 1- GENERAL

1.01 REQUIREMENTS

- A. All the operations and/or documents described in this section shall be completed and/or delivered to the Owner prior to acceptance of the work and final payment.

1.02 CLEANING

- A. General:
Each contractor or subcontractor shall remove and dispose of all tools, equipment, surplus material and rubbish pertaining to his work, and cooperate in final cleaning by general contractor.
- B. Final Cleaning:
Thoroughly clean the entire project upon completion of the work, including but not necessarily limited to: *Power sweeping the parking lot, cleaning construction debris from adjacent exterior areas, polishing all metals, cleaning all plumbing fixtures and accessories, cleaning all stainless steel fixtures and equipment, removing all labels and layout marks, cleaning all windows and mirrors, cleaning all floors, and in general, removing all evidence of the construction process to leave the entire premises in clean, new operating condition.*
- C. Equipment and Systems:
The attention of the Contractor is directed to the fact that scale, metal shaving, oil, pipe dope and every impurity will tend to accumulate at restricted points and impede flow. Every precaution shall therefore be observed in the assembly of the systems to remove and exclude foreign matter and upon completion of erection, a thorough cleaning program shall be observed. The cleaning operation shall be accomplished after all parts of the systems are in place but before any are insulated or furred in. Remove all labels, dirt, paint, grease and stains from all exposed devices, equipment and fixtures installed under this contract. Clean and polish all equipment upon completion of the work to present a first class job suitable for occupancy.

1.03 PROJECT DOCUMENTS

- A. Affidavits:
Completed AIA Document G706, CONTRACTOR'S AFFIDAVIT OF PAYMENT OF DEBTS AND CLAIMS, with all executed supporting documents listed thereon to include AIA Document G706A, CONTRACTOR'S AFFIDAVIT AND RELEASE OF LIENS and AIA Document G707, CONSENT OF SURETY COMPANY TO FINAL PAYMENT.

1.04 OPERATING AND MAINTENANCE DATA:

- A. Complete mechanical equipment operating manuals and instructions, specification data, diagrams and charts as specified in Division 15. Include the name, address and 24 hour telephone number of service representatives for the plumbing, HVAC, and electrical systems. Include diagrams and wiring diagrams of contractor furnished equipment. All documents in duplicate, neatly indexed in three ring, looseleaf binders.

1.05 **SYSTEMS DEMONSTRATIONS**

- A. Each separate system, with its various components, shall be operated by this contractor or his subcontractors for a responsible length of time to demonstrate the performance of all equipment and piping in accordance with the true intent and purpose of the plans and specifications. All necessary adjustments shall be made to the satisfaction of the Owner

1.06 **GUARANTEES, WARRANTIES AND ADDITIONAL DOCUMENTS**

- A. Certain certificates of warranties and guarantees shall be required. These guarantees and warranties, along with duly executed instruments properly assigning said guarantees and warranties shall be forwarded to the Owner, bound in a single volume, grouped by trade and properly indexed. These items shall be forwarded prior to Request for Final Payment. Contractor is directed to examine all technical sections of the specifications of the required documents. The following list is included for the contractor's convenience and does not necessarily include all required documents:

1. General Contractor's written warranty stating that the work in its entirety is warranted for a period of one (1) year from the date of Substantial Completion against all defects in materials and workmanship, all duly transferred to the Owner.
2. General Contractor and Roofing Subcontractor's joint unconditional warranty on the single ply membrane (SPM) roofing, all duly transferred to the Owner. In the event the work is performed by the General Contractor's own forces, this warranty shall be from the general contractor to the Owner.
3. Written sheet metal warranty, all duly transferred to the Owner.
4. Written termite treatment warranty, all duly transferred to the Owner, and that said treatment is renewable on a year to year basis by contract with the Owner.
5. Manufacturer's warranties on air conditioning units and any other manufacturer's equipment warranties, all duly transferred to the Owner.
6. Manufacturer's warranties on walk-in freezer units including compressors and any other manufacturer's equipment warranties, all duly transferred to the Owner.
7. Manufacturer's warranties on water heater tank and parts and and other manufacturer's equipment warranties, all duly transferred to the Owner.
8. Warranty and maintenance of all landscape work, all duly transferred to the Owner.

B. Additional Documents:

These additional documents are required for final payment:

1. A letter stating that framed mechanical equipment operating instructions, diagrams and charts as specified in DIVISION 15, have been mounted in a permanent manner on the wall of the manager's office. These documents shall be mounted in a wood or metal frame under glass. Include the name, address and 24 hour telephone number of Service Representatives for the plumbing, HVAC, and electrical systems.
2. Final air balance report, prepared with all mechanical systems in operation.
3. A Certificate as specified I DIVISION 15, stating that the fire protection system was installed in compliance with the appropriate NFPA Pamphlet 96.

4. A letter from the Contractor stating that all items on the final inspection report have been corrected.

1.07 **OPENING DAY CONTRACTOR PERSONNEL**

- A. Owner shall notify Contractor in writing of this scheduled "Opening Day" for business. Contractor shall arrange for his job superintendent to be present at the site to assist the Owner from 9:00 a.m. thru 4:00 p.m. on that day. In addition, Contractor shall arrange for his mechanical (HVAC), plumbing and electrical subcontractor's job superintendents to be on call to the project during those same hours.

1.08 **PROJECT CLOSEOUT PROCEDURE**

- A. **Notice and Final Inspection:**
Upon receipt of written notice that the Work is ready for final inspection, the Mechanical/Electrical Engineer and Owner shall promptly make such inspection. A handwritten copy of all discrepancies noted will be given to the Contractor on the job-site at the time of the final inspection.
- B. **Substantial Completion:**
Within five (5) days, the Owner shall issue the certificate of Substantial Completion (AIA Document G704); which shall establish the date of the Substantial Completion as the date the Owner occupied the work for the use for which it was intended. The Certificate of Substantial Completion shall be appended to it the formal list of items to be completed or corrected, and shall establish the date by which the contractor is to have completed or corrected all noted deficiencies. The issuance of the formal list of items to be completed or corrected shall not relieve the Contractor of the responsibility for any deficiencies of deviation from the drawings and specifications, which may not have been noted.
- C. **Completion:**
The contractor shall proceed immediately after the final inspection with the completion and correction of all deficiencies.
- D. **Final Payment**
Final Payment shall be made in accordance with previously stated procedures after receipt of the final Certificate and Application for Payment, accompanied by all the Warranties and Documents described in Paragraphs 15 and 16 of this section. Two (2) complete packages, each bound and indexed, of all items described in Paragraphs 15 and 16 shall be forwarded to the Owner.

1.09 **SPARE MATERIALS**

- A. G.C. shall provide spare materials as noted in **SECTION 01020 - ALLOWANCES.**

END OF SECTION

PART I GENERAL

1.01 DESCRIPTION

- A. Related Drawings, Product Data and Samples

1.02 MAINTENANCE OF DOCUMENTS

- A. Maintain one copy of:
 - 1. Contract Drawings
 - 2. Project Manual
 - 3. Addenda
 - 4. Approved Shop Drawings
 - 5. Supplemental Instructions
 - 6. Change Orders
 - 7. Other Modifications of Contract
 - 8. Field Test Records
 - 9. Correspondence File
- E. Store documents in approved locations, apart from documents used for construction.
- F. Maintain documents in clean, dry, legible condition.
- G. Do not use record documents for construction purposes.
- H. Make documents available at all times for inspection by Architect/Engineer and Owner.

1.03 MARKING DEVICES

- A. Provide felt marking pen for marking. Make notations in "red."

1.04 RECORDING

- A. Label each document "PROJECT RECORD" in 2 inch high printed letters.
- B. Keep record documents current.
- C. Do not permanently conceal any work until required information has been recorded.
- D. Contract Drawings: Legibly mark to record actual construction:
 - 1. Factory and field seams in membrane, dimensionally located.
 - 2. Field changes of dimension and detail.
 - 3. Changes made by Supplemental Instruction or Change Order.
 - 4. Details not on original Contract Drawings.
- E. Project Manual and Addenda: Legibly mark-up each section to record:
 - 1. Manufacturer, trade name, catalog number and supplier of each product and item of equipment actually installed.
 - 2. Changes made by Supplemental Instruction or Change Order.
 - 3. Other matters not originally specified.

- F. Shop Drawings: Maintain as record documents. Legibly mark-up approved shop drawings to show changes made after review.

1.05 **SUBMITTAL**

- A. At completion of project, deliver record documents to Owner.
- B. Accompany submittal with transmittal letter, in duplicate containing:
 - 1. Date
 - 2. Project title and number.
 - 3. Contractor's name and address.
 - 4. Title and number of each record document.
 - 5. Certification that each document as submitted is complete and accurate.
 - 6. Signature of Contractor, or his authorized representative.

END OF SECTION

SECTION 02221
EXCAVATING, BACKFILLING, AND
COMPACTING FOR STRUCTURES

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Excavation for building construction
- B. Excavation for parking construction
- C. Dewatering excavations
- D. Filling and backing for construction
- E. Compaction
- F. Inspection and Testing

1.02 RELATED SECTIONS

- A. Subsurface Investigation: SECTION 00500
- B. Testing Laboratory Services: SECTION 01410
- C. Grading: SECTION 02210
- D. Excavating, Backfilling and compacting for utilities: SECTION 02225

1.03 REFERENCE STANDARDS

- A. American Society for Testing Materials (ASTM)

1.04 TEST REPORTS

- A. Submit three copies to Owner.
- B.

PART II - PRODUCTS

2.01 MATERIALS FOR FILLING AND BACKFILLING

- A. General Site:
Re-used excavated or equal borrow material; low expansivity, uniform in grade, free from organic materials, capable of being compacted to 100 percent maximum density at optimum moisture content; ASTM D-698.
- B. Building Embankment:
As described on the Structural Drawings, including optimum moisture content, compaction requirements, etc.
- C. Select Fill (within building lines):
Homogenous and non-expansive, having a plasticity index between 4 and 12, and a liquid limit less than 30. Submit lab analysis for approval, complete with lab analysis of fill.

- D. Topsoil:
Clean, natural topsoil free of vegetation, debris, and other deleterious matter. Upper 6" of topsoil stripped from site may be used.
- E. Granular Fill/Sand Cushion:
Natural river or bank sand; free of silt, clay, loam, friable or soluble materials and organic matter; graded in accord with ASTM C136

PART III - EXECUTION

3.01 INSPECTION

- A. Verify foundation walls are braced to support surcharge forces imposed by backfilling operations and that areas to be backfilled are free of debris, snow, ice, or water, and ground surfaces are not frozen.

3.02 PREPARATION

- A. Excavating:
 - 1. General Identify required lines, levels, contours, and datum.
 - 2. Utilities
Identify known underground utilities. Stake and flag locations. Identify and flag surface and aerial utilities. Maintain existing utilities to remain which pass through work area.
- B. Backfilling:
When necessary, compact subgrade surfaces to density requirements for backfill material. Cut out soft areas of subgrade not readily capable of in-situ compaction. Backfill and compact to density equal to requirements for subsequent backfill material.

3.03 PROTECTION

- A. General:
 - 1. Provide adequate sheeting, shoring and bracing for excavations to prevent caving or to protect personnel, without additional cost to Owner.
 - 2. Shoring and bracing shall conform to the requirements of OSHA and/or the authority having jurisdiction over the project. If a conflict exists between agencies, the most stringent shall prevail.
- B. Construction:
Protect benchmarks, existing structures, foundations, fences, sidewalks, paving, and curbs from equipment and vehicular traffic.
- C. Utilities: Protect above and below grade utilities to remain.
- D. Landscape Features:
Protect existing trees, shrubs, lawns, rock outcropping and other features to remain as a portion of final landscaping.
- E. Excavations:
Grade the top perimeter of excavation to prevent surface water run-off from flowing into excavation. Protect excavations by methods required to prevent cave-in or loose soil from falling into excavation.

3.04 **EXCAVATING**

- A. Excavate subsoil required for building foundations, construction operations, and other work. Machine slope banks to angle of repose or less. Hand-trim excavation and leave free of loose matter. Remove lumped subsoil, boulders and rock up to 1/3 cu yd, measured by volume. Correct unauthorized excavation at no cost to Owner. Fill over-excavated areas under structure bearing surfaces in accord with directions of the Owner. Remove excavated material from site.

3.05 **DEWATERING**

- A. If water condition is present, provide dewatering without additional cost to Owner, including sumps, pumps and pumping as may be required. Maintain dewatering until backfilling is complete and/or water condition no longer exists.

3.06 **BACKFILLING AND COMPACTING**

- A. General:
Backfill areas to provide elevations shown on the Drawings. Use unfrozen materials. Backfill systematically, as early as possible, to allow maximum time for natural settlement. Do not backfill over porous, wet, or spongy subgrade surfaces.
- B. Backfilling:
 - 1. Employ placement methods, which will not disturb or damage construction to remain. Backfill against supported foundation walls. Backfill simultaneously on each side of unsupported foundation walls until supports are in place. Slope grade away from building minimum 2 inches in 10 feet, unless shown otherwise on the Drawings. Make changes in grade gradual. Blend slopes into level areas.
 - 2. Compact backfill to 95% of maximum density at 2% below and 3% above optimum moisture content as determined by standard proctor test (ASTM D-698).
- C. Layering and Compacting:
Maintain optimum moisture content of backfill materials to attain required compaction density. Spread fill over area shown on Structural Drawings in uniform layers; maximum loose depth of 8 inches. Compact as directed on the Structural Drawings.
- D. Granular Fill/Sand Cushion:
Spread and compact to requirements shown on the Drawings.

3.07 **TESTING**

- A. Employ and pay for, as part of Contract Price, the services of an Owner acceptable independent testing laboratory to test fill and backfill materials and their degree of compaction in place, and the optimum moisture content of both on-site and proposed borrow prior to placing and compacting. Perform not less than one compaction test for each 3,000 sq. ft of surface for each layer of fill under building, and not less than one compaction test for each 5,000 sq. ft. of surface for each layer of fill or undisturbed earth to remain on areas of site to be covered by paving or walks; ASTM D1556.

3.08 **CLEAN-UP**

- A. Upon completion of work of this Section, remove related debris from the premises.

END OF SECTION

SECTION 02225
EXCAVATING, BACKFILLING AND
COMPACTING FOR UTILITIES

PART I - GENERAL

1.01 **SECTION INCLUDES**

- A. Excavation for trenches
- B. Dewatering Excavations
- C. Backfilling
- D. Compacted bed and compacted fill.

1.02 **RELATED SECTIONS**

- A. Subsurface Investigation: SECTION 00500
- B. Testing Laboratory Services: SECTION 01410
- C. Grading: SECTION 02210
- D. Excavating, backfilling and compacting for structures: SECTION 02221

1.03 **REFERENCE STANDARDS**

- A. American Society for Testing Materials (ASTM)

1.04 **TEST REPORTS**

- A. Submit three copies to the Owner.

PART II - PRODUCTS

2.01 **MATERIALS FOR BACKFILLING**

- A. General Use:
Re-used excavated or equal borrow material; low expansivity, uniform in grade, free from organic materials, capable of being compacted to 95 percent maximum density at optimum moisture content; ASTM D-698.
- B. Sand:
Natural river or bank sand; free of silt, clay, loam, friable or soluble materials, and organic matter; graded in accord with ASTM C136.

PART III - EXECUTION

3.01 **INSPECTION**

- A. Verify that areas to be backfilled are free of debris, snow, ice, or water, and ground surfaces are not frozen.

3.02 **PREPARATION**

- A. Identify required lines, levels, contours, and datum. When necessary, compact subgrade surfaces to density requirements for backfill material.

3.03 **PROTECTION**

A. General:

1. Provide adequate sheeting, shoring and bracing for excavations to prevent caving or to protect personnel, without additional cost to Owner.
2. Shoring and bracing shall conform to the requirements of OSHA and/or the authority having jurisdiction over the project. If a conflict exists between agencies, the most stringent shall prevail.

B. Landscape Features:

Protect existing trees, shrubs, lawns, rock outcropping and other features to remain as portion of final landscaping.

C. Construction:

Underpin adjacent structures which may be damaged by excavation work, including service utilities and pipe chases.

D. Unexpected Conditions:

Notify Owner of unexpected subsurface conditions and discontinue work in affected area until notification to resume work.

E. Excavations:

Grade the top perimeter of excavation to prevent surface water run-off from flowing into excavation. Protect excavations by methods required to prevent cave-in or loose soil from falling into excavation. Protect bottom of excavations and soil adjacent to and beneath foundations from frost.

3.04 **EXCAVATING**

- A. Excavate subsoil required for piping and other utility work. Cut trenches sufficiently wide to enable installation of utilities and allow inspection. Hand trim excavation and leave free of loose matter. Remove lumped subsoil, boulders, and rock up to 1/3 cu yd, measured by volume. Correct unauthorized excavation at no cost to Owner. Fill over-excavated areas under bearing surfaces in accord with directions of Owner. Remove excess excavated material from site.

3.05 **DEWATERING**

- A. If water condition is present, provide dewatering without additional cost to Owner, including sumps, pumps and pumping as may be required. Maintain dewatering until backfilling is complete and/or water condition no longer exists.

3.06 **BACKFILLING AND COMPACTING**

A. General:

Support pipe, conduit, etc. during placement and compaction of bedding fill. Backfill trenches to provide contours and elevations shown on the Drawings. Use unfrozen materials. Backfill systematically, as early as possible, to allow maximum time for natural settlement. Do not backfill over porous, wet, or spongy subgrade surfaces.

B. Backfilling:

Employ placement methods which will not disturb or damage construction to remain.

C. Laying and Compacting:

Maintain optimum moisture content of backfill materials to attain required compaction density. Place fill in uniform layers; maximum loose depth of 8 inches. Compact to density required for structural conditions under construction and to existing subsoil conditions for landscaped or open areas.

3.07 TESTING

- A. Employ and pay for, as part of Contract Price, the services of an Owner acceptable independent testing laboratory to test fill and backfill materials and their degree of compaction in place, and the optimum moisture content of both on-site and proposed borrow prior to placing and compacting. *Perform not less than one compaction test for each 30-feet of trench for each layer of fill under building, and not less than one compaction test for each 50 feet of trench for each layer of fill or undisturbed earth to remain on areas of site to be covered by paving; ASTM D1556.*

3.08 CLEAN-UP

- A. *Upon completion of work of this Section, remove related debris from the premises.*

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Soil poisoning treatment
- B. Warranty

1.02 INTENT

- A. To guard against termites and other common ground insects detrimental to wood construction. Materials mentioned in PART II of this Specification are suggested for use but shall not be used if disallowed by governing laws and/or ordinances.

1.03 QUALITY ASSURANCE

- A. Applicator:
Company specializing in soil treatment for termite control with five years documented experience.
- B. Materials:
Provide certification that toxicants conform to requirements.

1.04 REGULATORY AGENCY REQUIREMENTS

- A. Conform to governing authority requirements for application licensing and authority to use toxicant chemicals.

1.05 SUBMITTALS

- A. Product Data:
Submit per SUBMITTALS Section; Indicate toxicants to be used, composition by percentage, dilution schedule, and intended application rate. Owner's acceptance is required prior to shipment.
- B. Manufacturer's Installation Instructions: Submit per SUBMITTALS Section.

1.06 GUARANTEE

- A. Bonded Guarantee which covers against invasion or propagation of subterranean termites, damage to building or building contents caused by termites; repairs to building or building contents so caused, for a period of five years after substantial completion; subject to annual renewal thereafter.

PART II - PRODUCTS

2.01 TOXICANT CHEMICAL(S)

- A. Dursban TC, Dow Chemical - apply per manufacturer's recommendations.

2.02 MIXES

- A. Dilute toxicant chemical to a percent solution specified by manufacturer.

PART III - EXECUTION

3.01 DELIVERY

- A. Deliver materials in original unopened manufacturer's packaging with labels and seals identifying content.

3.02 INSPECTION

- A. Verify exposed soil surfaces are unfrozen, sufficiently dry to absorb toxicant, ready to receive treatment. Beginning of application means acceptance of soil conditions.

3.03 APPLICATION

- A. Safety:
Apply materials in accord with recommended safety precautions for materials used.
- B. Toxicant Chemicals:
Apply toxicant immediately prior to installation of vapor barrier under slab-on-grade or finish grading outside foundation walls. Apply extra treatment to structure penetrations, pipe, ducts, and other soil penetrations. Apply as a coarse spray to ensure uniform distribution. Coordinate soil treatment at foundation perimeter with finish grading and landscaping work to avoid disturbance of treated soil.

3.04 CLEAN-UP

- A. Upon completion of work of this Section, remove related debris from premises.

END OF SECTION

SECTION 02505
CONCRETE PAVING, WALKS, CURBS, GUTTERS, AND APPROACHES

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Concrete pedestrian traffic surfaces (walks, ramps, etc.)
- B. Concrete vehicular traffic surfaces
- C. Concrete curbs and gutters
- D. Concrete traffic approaches

1.02 RELATED SECTIONS

- A. Concrete Formwork: SECTION 03100
- B. Concrete Reinforcement: SECTION 03200
- C. Cast-In-Place Concrete: SECTION 03300
- D. Concrete Curing: SECTION 03370

1.03 REFERENCE PUBLICATIONS AND STANDARDS

- A. Governing Authority: Applicable standards and regulations of state and municipal agencies having governing authority over the work specified in this section shall take priority over items specified herein and shown on the drawings unless the requirements set forth herein require a superior quality work.
- B. Material Standards: American Society for Testing Materials (ASTM)
- C. Concrete Standards: American Concrete Institute (ACI): ACI-617 "Standard Specifications for Concrete Pavement and Bases" ACI-395 "Manual of Standard Practice for Detailing Reinforced Concrete"

1.04 SUBMITTALS

- A. Testing Laboratory Reports: Furnish three copies of the test reports to the Owner indicating results of the cylinder test.

PART II - PRODUCTS

2.01 FORM MATERIAL

- A. As specified in CONCRETE FORMWORK.

2.02 BASIC MATERIALS

- A. Concrete: As Specified in CAST-IN-PLACE CONCRETE
- B. Reinforcing Steel: As specified in CONCRETE REINFORCEMENT

2.03 **MISCELLANEOUS MATERIALS**

- A. Air Entraining Agent: ASTM C0260, Master Builders or equal.
- B. Dispersing Admixture: ASTM C-494, Master Builders or equal.
- C. Curing Compound: ASTM C-309, No. 40W by A. C. Horn Company or equal.
- D. Joint Filler: ASTM D1751, pre-molded fiber filler, unless shown otherwise on the drawings.
- E. Joint Sealer: ASTM D-1190, Code 2351.

2.04 **CONCRETE MIX DESIGN**

- A. Contractor shall employ and pay for, as a part of the contract price, the services of an Owner approved independent testing laboratory to determine actual design mix to be used, based on the following: All concrete: 3000 psi at 28 days.

PART III - EXECUTION

3.01 **INSPECTION OF SUBGRADE**

- A. Inspect subgrades prepared as specified elsewhere in these Specifications and report any deficiencies to the Owner before beginning work. Commencement of work shall indicate acceptance of subgrades by this Contractor.

3.02 **CONSTRUCTION**

- A. General: Deliver and place concrete as specified in CAST-IN-PLACE CONCRETE.
- B. Curbs and Gutters:
 - 1. Configurations: Construct to cross-sectional details shown on drawings and at indicated locations. Curbs may be fully formed or pulled and troweled to configurations shown on the drawings.
 - 2. Reinforcement: Reinforce as indicated on the drawings with continuous reinforcing bars lapped 30 bar diameters and securely tied at all splices. Metal chairs shall be used to hold the reinforcing steel in the proper plane.
 - 3. Expansion Joints: Construct 1/2" wide expansion joints with joint filler across lengths of curb at all tangent points and at not more than twenty foot intervals. Construct one inch wide expansion joints with joint filler between curbs and concrete paving. All fixed objects, such as buildings, poles, pipes, catch basins, etc., within or abutting the concrete shall be separated from the concrete by expansion joints.
 - 4. Finishing: Finish surfaces with dense uniform texture equal to burlap drag and cross-score with 1/4" deep cross joints at ten foot intervals with edges smoothed 1/8".
 - 5. Joints: Fill expansion joints with joint filler except for space 3/4" deep at surface. After concrete has set, clean the open joint above filler and fill with joint sealer in accordance with instructions of sealer manufacturer.
- C. Traffic Approaches and Vehicular Traffic Surfaces:
 - 1. Configuration: Construct to cross-sectional details shown on drawings and at indicated locations.
 - 2. Reinforcement: Reinforce with #3 minimum size reinforcing bars 18 inches on center both ways, unless otherwise indicated or noted on the drawings.

3. Expansion and Construction Joints: At intentional points for stoppage of concrete placing, use expansion joints. At unintentional points of stoppage of concrete placing, use continuation of reinforcing through joints. Construct 1/2 inch wide expansion joints with joint filler at locations shown on the drawings or at not more than twenty foot intervals each way if not shown. Construct 1/2 inch wide expansion joints with joint filler between curbs and concrete paving. All fixed objects, such as buildings, poles, pipes, catch basins, etc., within or abutting the concrete shall be separated from the concrete by expansion joints.
4. Joint Filling and Sealing: Fill expansion joints with joint filler except for space 3/4" deep at surface. After concrete has set, clean the open joint above filler and fill with joint sealer in accordance with instructions of sealer manufacturer.
5. Finishing: Vibrate, screed and float concrete to level and test the surface, which shall not vary over 1/4" in ten feet when tested with ten foot straight edge. Finish surface to gritty texture with burlap drag or straight continuous strokes with a stiff bristle push broom. Finish all edges smooth with 1/8" or 1/4" radius.

D. Walks

1. Configurations: Construct to cross-sectional details shown on drawings and at indicated locations.
2. Sand Cushion: Concrete shall be placed over a sand cushion placed on the stabilized subgrade as shown on the drawings or a minimum of 4" thick if not shown on the drawings.
3. Reinforcing: Reinforce with 6 x 6 x W1.4, WWF, minimum reinforcing unless otherwise indicated or noted on the drawings.
4. Expansion Joints: Construct expansion joints as detailed in locations shown on the drawings.
5. Finishing: Finish surfaces not noted on the drawings to be finished otherwise to a "broom" or "burlap drag" gritty surface. Tool all joints and all edges to provide a smooth border to each section or division of the walk. Finish all vertical surfaces in a manner that leaves the exposed surfaces free of "honeycombing" and form marks. Any damaged surfaces shall be repaired and stone-rubbed to match adjacent finished surfaces.

3.03 CURING CONCRETE

- A. Apply a white-pigmented type curing compound at a uniform rate of approximately 200 sq. ft./gallon, or as recommended by curing compound manufacturer as soon as the finishing operation has been completed and the concrete has lost its water sheen. The curing procedure must protect the concrete, including all exposed surfaces against loss of moisture and rapid temperature change for a period of not less than four days from the beginning of the curing operation and without damage to, or marking of the finished concrete surface. Traffic shall not be allowed on finished concrete for a minimum period of seven days.

3.04 TESTING

- A. Independent Testing Laboratory: Contractor shall employ and pay for, as a part of the contract price, the services of an Owner- approved independent testing laboratory to perform concrete cylinder testing. Test cylinders shall be taken and cured by the Contractor and tested by the testing laboratory for each different class of concrete poured in any one day. Cylinders shall be taken in accordance with ASTM C31, and cured and tested in accordance with ASTM C39. One set of three cylinders is required for each 50 cubic yards of concrete or less, placed in any one day. One cylinder shall be tested at 7 days, one cylinder shall be tested at 28 days and one cylinder shall be held as a spare from each set of three cylinders as specified above.
- B. Contractor Tests:
 1. Slump Tests: Slump tests shall be taken by the Contractor when cylinders are taken, and shall show maximum slump 5" and minimum slump 3".
 2. Air Entrainment: Air content by volume: 5% to 7% based on measurements made in concrete mixtures at point of discharge at job site at time slump tests are made. Air content by volume shall be determined in accord with ASTM C231.

3.05 **CLEANING CONCRETE**

- A. Concrete approaches, sidewalks and related work shall be hosed down with water, scrubbed with fiber brushes, allowed to dry and be left broom clean and in condition acceptable to the Owner.

3.06 **CLEAN-UP**

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Formwork for cast-in place concrete, with shoring, bracing and anchorage.
- B. Openings for other work.
- C. Form accessories.
- D. Form stripping.

1.02 PRODUCTS INSTALLED BUT NOT FURNISHED UNDER THIS SECTION

- A. Cast-In-Place Concrete: Supply of concrete accessories for placement by this section.
- B. Supply of masonry accessories for placement by this section.
- C. Metal Fabrications: Supply of metal fabrications for placement by this section.

1.03 RELATED SECTIONS

- A. Concrete Reinforcement: SECTION 03200
- B. Cast-in-Place Concrete: SECTION 03300
- C. Concrete Curing: SECTION 03370

1.04 REFERENCES

- A. ACI 301 - Structural Concrete for Buildings.
- B. ACI 318 - Building Code Requirements for Reinforced Concrete.
- C. ACI 347 - Recommended Practice For Concrete Formwork.
- D. PS 1 - Construction and Industrial Plywood.

1.05 DESIGN REQUIREMENTS

- A. Design, engineer and construct formwork, shoring and bracing to conform to design and code requirements; resultant concrete to conform to required shape, line and dimension.

1.06 QUALITY ASSURANCE

- A. Perform Work in accordance with ACI 347, 301, and 318.

1.07 REGULATORY REQUIREMENTS

- A. Conform to applicable code for design, fabrication, erection and removal of formwork.

1.08 **COORDINATION**

- A. Coordinate this Section with other Sections of work which require attachment of components to formwork.
- B. If formwork is placed after reinforcement resulting in insufficient concrete cover over reinforcement before proceeding, request instructions from Architect/Engineer.

PART II - PRODUCTS

2.01 **WOOD FORM MATERIALS**

- A. Form Materials: At the discretion of the Contractor.

2.02 **FORMWORK ACCESSORIES**

- A. Form Release Agent: Colorless mineral oil which will not stain concrete, or absorb moisture, or impair natural bonding or color characteristics of coating intended for use on concrete.
- B. Nails, Spikes, Lag Bolts, Through Bolts, Anchorages: Sized as required, of sufficient strength and character to maintain formwork in place while placing concrete.
- C. Beam void forms "VOIDCO" or equal, as required under pier supported grade beams.

PART III - EXECUTION

3.01 **EXAMINATION**

- A. Verify lines, levels and centers before proceeding with formwork. Ensure that dimensions agree with drawings.

3.02 **EARTH FORMS**

- A. Earth forms are not permitted for exposed concrete surfaces.
- B. For non-exposed surfaces, hand trim sides and bottom of earth forms. Remove loose soil prior to placing concrete.

3.03 **ERECTION - FORMWORK**

- A. Erect formwork, shoring and bracing to achieve design requirements, in accordance with requirements of ACI 301.
- B. Provide bracing to ensure stability of formwork. Shore or strengthen formwork subject to over stressing by construction loads.
- C. Arrange and assemble formwork to permit dismantling and stripping. Do not damage concrete during stripping. Permit removal of remaining principal shores.
- D. Align joints and make watertight. Keep form joints to a minimum.
- E. Obtain approval before framing openings in structural members which are not indicated on Drawings.
- F. Provide chamfer strips on external corners of beams.
- G. Install void forms in accordance with manufacturer's recommendations. Protect forms from moisture or crushing.

3.04 **APPLICATION - FORM RELEASE AGENT**

- A. Apply form release agent on formwork in accordance with manufacturer's recommendations.
- B. Apply prior to placement of reinforcing steel, anchoring devices, and embedded items.
- C. Do not apply form release agent where concrete surfaces will receive applied coverings which are effected by agent. Soak inside surfaces of untreated forms with clean water. Keep surfaces coated prior to placement of concrete.

3.05 **INSERTS, EMBEDDED PARTS, AND OPENINGS**

- A. Provide formed openings where required for items to be embedded in passing through concrete work.
- B. Locate and set in place items which will be cast directly into concrete.
- C. Coordinate with work of other sections in forming and placing openings, slots, reglets, recesses, sleeves, bolts, anchors, other inserts, and components of other Work.
- D. Install accessories in accordance with manufacturer's instructions, straight, level, and plumb. Ensure items are not disturbed during concrete placement.
- E. Provide temporary ports or openings in formwork where required to facilitate cleaning and inspection. Locate openings at bottom of forms to allow flushing water to drain.
- F. Close temporary openings with tight fitting panels, flush with inside face of forms, and neatly fitted so joints will not be apparent in exposed concrete surfaces.

3.06 **FORM CLEANING**

- A. Clean forms as erection proceeds, to remove foreign matter within forms.
- B. Clean formed cavities of debris prior to placing concrete.
- C. Flush with water or use compressed air to remove remaining foreign matter. Ensure that water and debris drain to exterior through clean-out ports.
- D. During cold weather, remove ice and snow from within forms. Do not use de-icing salts. Do not use water to clean out forms, unless formwork and concrete construction proceed within heated enclosure. Use compressed air or other means to remove foreign matter.

3.07 **FORMWORK TOLERANCES**

- A. Construct formwork to maintain tolerances required by ACI 301.

3.08 **FIELD QUALITY CONTROL**

- A. Inspect erected formwork, shoring, and bracing to ensure that work is in accordance with formwork design, and that supports, fastenings, wedges, ties, and items are secure.

3.09 **FORM REMOVAL**

- A. Do not remove forms or bracing until concrete has gained sufficient strength to carry its own weight and imposed loads, and in any event, not earlier than two (2) days after concrete is placed.

- B. Loosen forms carefully. Do not wedge pry bars, hammers, or tools against finish concrete surfaces scheduled for exposure to view.
 - C. Store removed forms in manner that surfaces to be in contact with fresh concrete will not be damaged. Discard damaged forms.
- 3.10 **CLEAN-UP**
- A. Upon completion of the work of this Section, remove related debris from premises.

END OF SECTION

SECTION 03200
CONCRETE REINFORCEMENT

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Reinforcing steel bars, wire fabric and accessories for cast-in-place concrete.

1.02 RELATED SECTIONS

- A. Concrete Formwork: SECTION 03100
- B. Cast-in-Place Concrete: SECTION 03300
- C. Concrete Curing: SECTION 03370

1.03 REFERENCES

- A. ACI 301 - Structural Concrete for Buildings.
- B. ACI 318 - Building Code Requirements For Reinforced Concrete.
- C. ACI SP-66 - American Concrete Institute - Detailing Manual.
- D. ANSI/ASTM A185 - Welded Steel Wire Fabric for Concrete Reinforcement.
- E. ANSI/AWS D1.4 - Structural Welding Code for Reinforcing Steel.
- F. ASTM A615 - Deformed and Plain Billet Steel Bars for Concrete Reinforcement.
- G. AWS D12.1 - Welding Reinforcement Steel, Metal Inserts and Connections in Reinforced Concrete Construction.
- H. CRSI - Concrete Reinforcing Steel Institute - Manual of Practice.
- I. CRSI - Placing Reinforcing Bars.

1.04 SUBMITTALS

- A. Submit Per Submittal Sections: Indicate bar sizes, spacings, locations, and quantities of reinforcing steel and wire fabric, bending and cutting schedules, and supporting and spacing devices.

1.05 QUALITY ASSURANCE

- A. Perform Work in accordance with CRSI - Manual of Standard Practice.
- B. Submit certified copies of mill test report of reinforcement materials analysis.

1.06 COORDINATION

- A. Coordinate with placement of formwork, formed openings and other Work.

PART II - PRODUCTS

2.01 REINFORCEMENT

- A. Reinforcing Steel: ASTM A615, 60 yield grade; deformed billet steel bars.
- B. Welded Steel Wire Fabric: ASTM A185 in flat sheets; unfinished.

2.02 ACCESSORY MATERIALS

- A. Tie Wire: Minimum 16 gage annealed type.
- B. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for strength and support of reinforcement during concrete placement conditions including load bearing pad on bottom to prevent vapor barrier puncture.

2.03 FABRICATION

- A. Fabricate concrete reinforcing in accordance with CRSI Manual of Practice.
- B. Weld reinforcement in accordance with ANSI/AWS D1.4.
- C. Locate reinforcing splices not indicated on drawings, at point of minimum stress.

PART III - EXECUTION

3.01 PLACEMENT

- A. Place, support and secure reinforcement against displacement. Do not deviate from required position.
- B. Do not displace or damage vapor barrier.
- C. Accommodate placement of formed openings.
- D. Maintain concrete cover around reinforcing per plans.
- E. Conform to applicable code for concrete cover over reinforcement, unless noted otherwise.

3.02 CLEAN-UP

- A. Upon completion of the work of this Section, remove related debris from premises.

END OF SECTION

SECTION 03300
CAST-IN-PLACE CONCRETE

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Cast-in-place concrete foundation walls and floorings.
- B. Floors and slabs on grade.
- C. Control, expansion and contraction joint devices associated with concrete work, including joint sealants.
- D. Equipment pads.

1.02 RELATED SECTIONS

- A. Concrete Paving: SECTION 02505
- B. Concrete Formwork: SECTION 03100
- C. Concrete Reinforcement: SECTION 03200
- D. Concrete Curing: SECTION 03370

1.03 REFERENCES

- A. ACI 301 - Structural Concrete for Buildings.
- B. ACI 302 - Guide for Concrete Floor and Slab Construction.
- C. ACI 304 - Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete.
- D. ACI 305R - Hot Weather Concreting.
- E. ACI 306R - Cold Weather Concreting.
- F. ACI 308 - Standard Practice for Curing Concrete.
- G. ACI 318 - Building Code Requirements for Reinforced Concrete.
- H. ANSI/ASTM D994 - Preformed Expansion Joint Filler for Concrete (Bituminous Type).
- I. ANSI/ASTM D1190 - Concrete Joint Sealer, Hot-Poured Elastic Type.
- J. ANSI/ASTM D1751 - Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Non-extruding and Resilient Bituminous Types).
- K. ANSI/ASTM D1752 - Preformed Sponge Rubber and Cork Expansion Joint Fillers for Concrete Paving and Structural Construction.
- L. ASTM C33 - Concrete Aggregates.
- M. ASTM C94 - Ready-Mixed Concrete.
- N. ASTM C150 - Portland Cement.

- O. ASTM C260 - Air Entraining Admixtures for Concrete.

1.04 **SUBMITTALS**

- A. Submit per SUBMITTALS Section.

1.05 **PROJECT RECORD DOCUMENTS**

- A. Submit under provisions of SUBMITTALS Section.
- B. Accurately record actual locations of embedded utilities and components which are concealed from view.

1.06 **QUALITY ASSURANCE**

- A. Perform Work in accordance with ACI 301.
- B. Acquire cement and aggregate from same source for all work.
- C. Conform to ACI 305R when concreting during hot weather.
- D. Conform to ACI 306R when concreting during cold weather.

1.07 **COORDINATION**

- A. Coordinate work under provisions of Coordination Section.
- B. Coordinate the placement of joint devices with erection of concrete formwork and placement of form accessories.

PART II - PRODUCTS

2.01 **CONCRETE MATERIALS**

- A. Cement: ASTM C150, Type I - Normal.
- B. Fine and Coarse Aggregates: ASTM C33.
- C. Water: Clean and not detrimental to concrete.

2.02 **ADMIXTURES**

- A. Air Entrainment: ASTM C260.

2.03 **ACCESSORIES**

- A. Vapor Barrier: 6 mil thick clear polyethylene film, type recommended for below grade application. Sealing tape and sealant as recommended by the manufacturer.
- B. Non-Shrink Grout: Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.
- C. Floor Leveling Compound: LM Scofield overlay, LM Scofield Company, Los Angeles, California.
- D. Floor Sealing Compound: "Master Seal SL" - Master Builders, Cleveland, Ohio.

2.04 **JOINT DEVICES AND FILLER MATERIALS**

- A. Joint Filler Asphalt impregnated fiberboard or felt, tongue and groove profile

2.05 **CONCRETE MIX**

- A. Mix and deliver concrete in accordance with ASTM C94.
- B. Select proportions for normal weight concrete in accordance with ACI 301.
- C. Provide concrete as indicated on the plans. Slump - 4", plus or minus 1 inch.
- D. Use accelerating admixtures in cold weather only when approved by Owner. Use of admixtures will not relax cold weather placement requirements.
- E. Do not use calcium chloride.
- F. Use set retarding admixtures during hot weather only when approved by Owner.
- G. Add air entraining agent to normal weight concrete mix for work exposed to exterior.

PART III - EXECUTION

3.01 **EXAMINATION**

- A. Verify requirements for concrete cover over reinforcement.
- B. Verify that anchors, seats, plates, reinforcement and other items to be cast into concrete are accurately placed, positioned securely, and will not cause hardship in placing concrete.

3.02 **PREPARATION**

- A. Prepare previously placed concrete by cleaning with steel brush and applying bonding agent in accordance with manufacturer's instructions.
- B. In locations where new concrete is doweled to existing work, drill holes in existing concrete, insert steel dowels and epoxy grout.

3.03 **PLACING CONCRETE**

- A. Place concrete in accordance with ACI 304, ACI 301, and ACI 318.
- B. Notify Owner minimum 24 hours prior to commencement of operations.
- C. Ensure reinforcement, inserts, embedded parts, formed expansion and contraction joints are not disturbed during concrete placement.
- D. Install vapor barrier under interior slabs on grade. Lap joints minimum 6 inches and seal watertight by sealant applied between overlapping edges and ends or taping edges and ends.
- E. Repair vapor barrier damaged during placement of concrete reinforcing. Repair with vapor barrier material; lap over damaged areas minimum 6 inches and seal watertight.
- F. Place joint filler in pattern indicated. Set top to required elevations. Secure to resist movement by wet concrete.
- G. Install joint devices in accordance with manufacturer's instructions.

- H. Place concrete continuously between predetermined expansion, control, and construction joints.
- I. Saw cut joints within 24 hours after placing. Use 1/16 inch thick blade, cut to a 1/8 inch depth.
- J. Screed floors and slabs on grade level, maintaining surface flatness of maximum 1/4 inch in 10 ft.

3.04 **CONCRETE FINISHING**

- A. Provide formed concrete surfaces to be left exposed finish specified by the Architect.
- B. Finish concrete floor surfaces in accordance with ACI 301.
- C. Wood float all concrete surfaces. Do not steel trowel any interior concrete surfaces.
- D. Exposed areas shall be steel troweled not less than two passes. Begin with power trowel as soon as little to no concrete sticks to blades. Do not dust with cement or aggregate to absorb moisture or to stiffen mix. Provide penetrable surface for concrete stain with "Fuzz" finish. Do not polish or burn-in with trowel machine.
- E. In areas with floor drains, maintain floor elevation at walls; pitch surfaces uniformly to drains at 1/4 inch per foot nominal as indicated on drawings.

3.05 **PROTECTION**

- A. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury. Do not use straw, burlap or thermal blankets.

3.06 **FIELD QUALITY CONTROL**

- A. Field inspection and testing will be performed in accordance with ACI 301.
- B. Provide free access to Work and cooperate with appointed firm.
- C. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of Work.
- D. Tests of cement and aggregates may be performed to ensure conformance with specified requirements.
- E. Three concrete test cylinders will be taken for every 75 or less cu yds of each class of concrete placed.
- F. One additional test cylinder will be taken during cold weather concreting, cured on job site under same conditions as concrete it represents.
- G. One slump test will be taken for each set of test cylinders taken.

3.07 **PATCHING**

- A. Allow Owner to inspect concrete surfaces immediately upon removal of forms.
- B. Honeycomb or embedded debris in concrete is not acceptable. Notify Owner upon discovery.
- C. Patch imperfections in accordance with ACI 301.

3.08 **DEFECTIVE CONCRETE**

- A. Defective Concrete: Concrete not conforming to required lines, details, dimensions, tolerances or specified requirements.
- B. Repair or replacement of defective concrete will be determined by the Owner.
- C. Do not patch, fill, touch-up, repair, or replace exposed concrete except upon express direction of Owner for each individual area.

3.09 **CLEAN-UP**

- A. Upon completion of the work of this Section, remove related debris from premises.

END OF SECTION

SECTION 03370
CONCRETE CURING

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Initial and final curing of horizontal and vertical concrete surfaces.

1.02 RELATED SECTIONS

- A. Concrete Formwork: SECTION 03100
- B. Concrete Reinforcing: SECTION 03200
- C. Cast in Place Concrete: SECTION 03300

1.03 REFERENCES

- A. ACI 301 - Structural Concrete for Buildings.
- B. ACI 302 - Recommended Practice for Concrete Floor and Slab Construction.
- C. ACI 308 - Standard Practice for Curing Concrete.
- D. ASTM C171 - Sheet Materials for Curing Concrete.
- E. ASTM C309 - Liquid Membrane-Forming Compounds for Curing Concrete.
- F. ASTM D2103 - Polyethylene Film and Sheeting.

1.04 QUALITY ASSURANCE

- A. Perform Work in accordance with ACI 301 and ACI 302.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver curing materials in manufacturer's packaging including application instructions.

PART II - PRODUCTS

2.01 MATERIALS

- A. Polyethylene Film
- B. Water: Potable, not detrimental to concrete.
- C. Curing Compound: Master Builders Technologies, "Masterkure 200W" water based wax emulsion concrete curing compound.
- D. Burlap (for moist curing): Standard Grade Burlap; FS CCC-C-467.

PART III - EXECUTION

3.01 EXAMINATION

- A. Verify that substrate surfaces are ready to be cured.

3.02 EXECUTION - HORIZONTAL SURFACES

- A. Cure floor surfaces in accordance with ACI 308.
- B. Spraying: Cover surface with wet burlap and spray water over floor slab areas and maintain wet for 7 days.
- C. Membrane Curing Compound: Apply compound in accordance with manufacturer's instructions. Completely strip all curing compounds before installation of any floor finish; and after concrete has achieved specified strength.

3.03 EXECUTION - VERTICAL SURFACES

- A. Cure surfaces in accordance with ACI 308.
- B. Spraying: Spray water over surfaces and maintain wet for 7 days.

3.04 PROTECTION OF FINISHED WORK

- A. Do not permit traffic over unprotected floor surface.

3.05 CLEAN-UP

- A. Upon completion of the work of this Section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Brick masonry
- B. Joint Reinforcing
- C. Building in items furnished and located by other trades.

1.02 REFERENCE STANDARDS

- A. American Society for Testing Materials (ASTM)
- B. Brick Institute of America (BIA): "Technical notes on brick construction"

1.03 SUBMITTALS:

- A. Submit two of each type of reinforcing and brick proposed for Owner's acceptance.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and portions of this specification written on the basis of using the products of Summit Brick & Tile Company, as distributed by Blackson Brick Co., Dallas, Texas, 214/855-5051, contact Marc Blackson. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 BRICK MASONRY UNITS

- A. Modular face brick; ASTM C-216, Grade SW, Type FBS. Summit Brick, "Bennigan's Blend".
- B. Common Brick:
Contractor may, at his option, supply and install a common, modular size face brick where brick will be concealed upon project completion. All brick exposed to view must be as selected by Owner as noted above.

2.03 ACCESSORIES

- A. Joint Reinforcing:
Hohmann & Barnard, Fort Worth, TX, #CWT "Corrugated Wall Ties" galvanized 7/8 inch wide x 22 ga., lengths as required for 2-1/2" minimum embedded tie.
- B. Miscellaneous:
As shown on the drawings or as required to provide masonry installations which are well tied.

2.04 MORTAR

- A. Type:
Minimum compressive strength of 1800 psi; ASTM C476, Type M or S. Masonry cement will not be allowed.

B. Materials:

1. Portland Cement:
ASTM C150, Type 1, one brand only.
2. Hydrated Lime:
ASTM C207, Type S
3. Sand:
Well screened, clean, hard, siliceous particles free from loam, alkali, salt, organic matter and other impurities; composed of grains of varying size which pass an 8-mesh screen, uniformly graded from coarse to fine.
4. Water:
City tap water.
5. Color:
Standard grey mortar unless noted otherwise on finish schedule on drawings.
Submit samples for Owner's approval.

2.05 GROUT:

A. Type:

Minimum compressive strength of 2500 psi; ASTM C476, Type M or S.

PART III - EXECUTION

3.01 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Store mortar materials on dunnage in a dry place. Masonry units stores above ground on level platforms. Cover and protect units and accessories as necessary from elements.

3.02 CONDITIONS

A. Hot-Weather Installation:

Protect masonry, erected when ambient air temperature is more than 90° F, in shade, and relative humidity is less than 50%, from direct exposure to wind and sun for 48 hr after installation.

B. Cold-Weather Installation:

Do not build upon frozen work. Before erecting masonry during temperatures below 40° F., submit a written statement and receive acceptance of methods proposed to heat masonry materials and protect masonry from freezing. Do not lay masonry at temperatures below 35° F. unless authorized in writing.

3.03 PREPARATION (MORTAR)

- A. Accurately measure and mix mortar materials with water to produce wettest workable consistency possible. Place mortar in final position within 2-1/2 hr after mixing; discard mortar not used or that has started to set within this time.

3.04 SCAFFOLDING

- A. Provide as required for masonry work; make available to other trades required to execute work in conjunction with masonry.

3.05 MASONRY CONSTRUCTION

A. General:

Do not lay units having water or frost film on surfaces. Lay plumb, true to line, with level courses accurately spaced. Keep bond pattern plumb throughout. Corners and reveals plumb and true. Shove vertical joints tight. Adjust each unit to final position while mortar is soft and plastic. Remove any unit disturbed after mortar has stiffened and relay with fresh mortar.

B. Laying Units:

Wet in such manner that each unit is nearly saturated, surface dry when laid. Do not use brick that is cored, recessed, or has other deformations where deformations will be exposed to view. Fill joints completely with mortar. Lay with better face of brick exposed. Lay in 1/2" running bond and special relief and patterns shown on the drawings. Joints not to exceed 3/8 inches. Form weep holes with sash cord in head joints; but not more than 2'-0" o.c.

C. Cutting and Fitting:

Use, wherever possible, full units of proper size in lieu of cut units. Cut edges clean, true, and sharp. Carefully cut, form, or otherwise neatly make openings for recessed items and for electrical, plumbing, or other mechanical installations so that wall plates, cover plates, or escutcheons will completely conceal openings and will have bottoms in alignment with lower edge of masonry joints.

D. Embedded Items:

Point openings around flush-mounted electrical outlet boxes in wet locations flush with mortar including flush joint above box. Build in anchors, ties, wall plugs, accessories, flashings, pipe sleeves, and other items as the masonry work progresses. Anchors and ties fully embedded in mortar.

E. Unfinished Work:

Step back for joining with continuing new work. Resort to toothing only when specifically accepted. Before laying new work, remove loose mortar, and clean exposed joints; dampen surfaces of brick after cleaning.

F. Jointing:

1. Type:

Unless noted otherwise on drawing finish schedule:

Tool shallow rake; mortar thoroughly compacted and pressed against edges of units. Tool when mortar is thumbprint hard. Finish tooled joints to uniformly straight and true lines and surfaces, smooth, and free of tool marks.

2. Width:

Equal to difference between actual and nominal dimensions of units in either height or length; average width of any three adjacent joints not less than 1/4 inch nor more than 1/2 inch. Vertical joints; same width except for inconspicuous variations required to maintain bond.

3.06 POINTING AND CLEANING

- A. Completely remove mortar daubs or splashings from exposed masonry surfaces before setting. Clean masonry surfaces, other than removing excess surface mortar, only after mortar has hardened. Leave surfaces free of mortar daubs, dirt, stains and discoloration, including scum from cleaning operations. Do not use metal tools and metal brushes for cleaning. Before cleaning permanent construction, clean sample panel and examine for discoloration or stain. If the sample panel is discolored or stained, change method of cleaning to assure permanent masonry surfaces will not be adversely affected. Water-soak exposed surfaces and clean with "DEOX" or "SHURCLEAN," (proprietary masonry cleaning agents). Use cleaning agents in accord with manufacturer's instructions. Remove green in accord with brick manufacturer's instructions.

3.07 POINTING AND CLEANING

- A. Wash masonry work with clean water.

3.08 **PROTECTION OF WORK**

- A. Protect surfaces of masonry not being worked. When rain or snow is imminent, cover tops of exposed masonry with strong non-staining waterproof membrane, well secured in place, in a manner to prevent moisture from accumulating within unfinished wall. Make provisions to prevent damage by wind.

3.09 **CLEAN-UP**

- A. Upon completion of work of this section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Concrete unit masonry
- B. Horizontal masonry wall reinforcement.
- C. Building in bolts, anchors, nailers, angles, inserts, conduits, piping, flashings, etc. furnished and located by other trades.

1.02 REFERENCE STANDARDS

- A. American Society for Testing Materials (ASTM)
- B. International Masonry Industry All-Weather Council (IMIAC)

1.03 SUBMITTALS:

- A. Submit for acceptance:
 - 1. Anchors and ties: Two of each type proposed for use.
 - 2. Concrete masonry units: Two of each type.
 - 3. Joint reinforcement: Two pieces of each type of reinforcement, including corner and wall intersection pieces, showing at least two cross joints.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and portions of this specification written on the basis of using the products of specific manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 MATERIALS

- A. Masonry Units:
High pressure steam cured (air dried units will NOT be acceptable), load bearing, hollow units conforming to ASTM C90-85, Type I, Grade P-1; load bearing solid units conforming to ASTM C145-75. Testing of lightweight aggregates for drying shrinkage shall be as stipulated in ASTM C331. Units shall be of dimensions that will lay up to 8-inch modules. Units shall include special shapes and sizes shown on the drawings and/or required to complete the work.
- B. Masonry Unit Sizes:
Standard 8 x 8 x 16 inch and 4 x 8 x 16 inch units as shown on the drawings.

2.03 ACCESSORIES

- A. Joint Reinforcement:
Hohmann & Bernard, Fort Worth, TX, #Lox-All Truss Mesh, #120, "3/16" side rods and galvanized No. 9 cross rods. Provide special shapes as required for intersections. Widths shall be 2" less than total masonry thickness.

B. Miscellaneous:

As shown on the drawings or as required to provide masonry installations which are well tied (anchored) to building frame. Consult with Architect prior to bidding if clarification of this requirement is needed.

2.04 **MORTAR**

A. Type:

ASTM C476 with minimum compressive strength of 1800 p.s.i., Type M or S; color - standard gray to match block. Masonry cement will not be allowed.

B. Materials:

1. Portland Cement: ASTM C150, Type 1, one brand only.
2. Hydrated Lime: ASTM C270, Type S
3. Sand: Well screened, clean, hard, siliceous particles free from loam, alkali, salt, organic matter and other impurities and shall be composed of grains of varying sizes, all of which shall pass an eight mesh screen, and shall be uniformly graded from coarse to fine.
4. Water: City tap water.

2.05 **GROUT (if shown on the drawings):**

A. Grout Mix for reinforced masonry:

ASTM C476 with minimum compressive strength of 3000 psi at 28 days. provide coarse aggregate conforming to ASTM C404 (max. size 3/8") for coarse grout mix. Grout shall have slump of 10-1/2 to 11 inches at the time of placement.

PART III - EXECUTION

3.01 **PRODUCT DELIVERY, STORAGE AND HANDLING**

- A. Store mortar materials on dunnage in a dry place. Masonry units stores above ground on level platforms. Cover and protect units and accessories as necessary from elements.

3.02 **CONDITIONS**

A. Hot-Weather Installation:

Masonry erected when the ambient air has a temperature of more than 90° F., in the shade, and has a relative humidity of less than 50 percent shall be protected from direct exposure to wind and sun for 48 hours after installation, and rain for 12 hours after installation. Masonry surfaces shall be kept moist with water gently spraying the surface, covering work with burlap which is kept wet, or by other approved means. Such protection shall be continued until mortar has set for 3 days or until lowering temperatures or increased humidity in the air make such protection unnecessary.

A. Cold-Weather Installation:

No frozen work shall be built upon. Before erecting masonry during temperatures below 40°F., a written statement shall be submitted and approval received of the methods proposed to heat the masonry materials and protect the masonry from freezing as required below. No masonry shall be laid at temperatures below 35° F. unless authorized in writing. Cold-weather installation shall be in accordance with **IMIAC** recommended practices and guide specifications for masonry construction.

3.03 PREPARATION (MORTAR)

- A. Mortar materials shall be accurately measured and mixed with as much water as may be necessary to produce the wettest workable consistency possible. Mortar shall be placed in final position within 2-1/2 hours after mixing. Mortar not used or that has started to set within this time interval shall be discarded. Mortar that has stiffened within the above time interval, because of evaporation of moisture from the mortar, shall be re-tempered to restore its workability.

3.04 SCAFFOLDING

- A. Provide scaffolding necessary for masonry work and make same available to other trades required to execute work in conjunction with masonry work.
- B. Design and engineering of form work and scaffolding as well as its construction shall be the responsibility of the Contractor. Adequately shore block beams, and similar members to safely support all loads and lateral pressures liable to come on the construction. Provide clean-out openings at each vertical bar at bottom course or in foundation wall when wall is erected in more than 5 foot lifts.

3.05 MASONRY CONSTRUCTION

A. General:

No unit having film of water or frost on its surfaces shall be laid. Masonry shall be laid plumb, true to line, with level courses accurately spaced. Bond pattern shall be kept plumb throughout. Corners and reveals shall be plumb and true. Vertical joints shall be shoved tight. Each unit shall be adjusted to final position while mortar is still soft and plastic. Any unit that is disturbed after mortar has stiffened shall be removed and relaid with fresh mortar.

B. Laying Units:

Do not wet before laying. Cut units with power masonry saws, either dry or wet cut. Lay units in a 1/2 running bond so that vertical joints between units will be located over the center of the units in the next course below and in alignment from bottom to top of wall. Units shall be full bedded in mortar under both face shells. Fill all headjoints solidly with mortar for a distance in from the face of the unit or wall not less than the thickness of the longitudinal face shell. No cells shall be left open in the face surfaces.

C. Grouting (if shown on the drawings):

Where shown on the drawings, pour interior grout spaces, except those blocked out with wood in order to provide the openings through wall, full of grout. Grout lifts shall not exceed 4'0". Slushing with mortar is not permitted. Grout shall be caused to flow into all voids and surround rebar. Puddle with sticks - not trowel blades. Except at finishing course, stop all grout pours approximately 1" below top of the last course. Where it is necessary, for construction purposes to stop a longitudinal run of masonry, stop by racking back according to bond. Provide a suitable dam to retain grout. After grout has set, remove wood blocking at openings.

D. Cutting and Fitting:

Wherever possible, full units of the proper size shall be used in lieu of cut units. Cut edges shall be clean, true, and sharp. Openings shall be carefully cut, formed, or otherwise neatly made by masonry mechanic for recessed items and for electrical, plumbing, or other mechanical installations so that wall plates, cover plates, or escutcheons required by the installation will completely conceal the openings and will have bottoms in alignment with lower edge of masonry joints.

E. Reinforcement

1. All CMU walls shall be reinforced horizontally with reinforcing spaced 16" o.c. vertically, maximum. Lay reinforcing on wall and cover with mortar, then bed unit as herein specified. At corners, reinforcing is to be provided in every horizontal course, with inside rod cut and bent

to form corner. Provide reinforcing one course above and below all openings. Reinforcement placed as to assure a 5/8" mortar cover measured from the outside face of the joint. Side rods shall be lapped at least 6" at splices.

2. Intersecting and butting walls shall be bonded together by metal anchors spaced 2'-0" o.c. vertically. Interlocking of units not permitted.

F. Control Joints

Make adequate provisions throughout the masonry work for expansion and contraction. Install control joint filler as required, extending from top of bearing surface to top of wall, reinforcing shall not run through. Control joints shall be watertight at exterior joints.

G. Embedded Items:

Openings around flush-mounted electrical outlet boxes in wet locations shall be pointed flush with mortar including flush joint above the box. Anchors, ties, wall plugs, accessories, flashings, pipe sleeves, and other items required to be built in shall be built in as the masonry work progresses. Anchors, ties and joint reinforcement shall be fully embedded in mortar.

H. Stopping and Resuming Work:

Step back $\frac{1}{2}$ masonry unit length in each course; **DO NOT TOOTH**. Clean exposed surfaces of set masonry, and remove loose masonry units and mortar prior to laying fresh masonry.

I. Jointing:

1. Type

Tool slightly concave; mortar thoroughly compacted and pressed against edges of units. Tool when mortar is thumbprint hard. Finish tooled joints to uniformly straight and true lines and surfaces, smooth and free of tool marks.

2. Width

Equal to the difference between the actual and nominal dimensions of the units in either height or length, but in no case shall the average width of any three adjacent joints be less than 1/4 nor more than 1/2 inch. Vertical joints shall be of the same width except for inconspicuous variations required to maintain bond.

3.06 POINTING AND CLEANING

- A. Completely remove mortar daubs or splashings from masonry surfaces that will be exposed before setting or hardening. All defects in joints of masonry to be exposed shall be raked out as necessary, filled with mortar, and tooled concave. Masonry surfaces shall not be cleaned, other than removing excess surface mortar, until mortar in joints has hardened. Leave masonry surfaces clean, free of mortar daubs and dirt, and with tight mortar joints throughout.

3.07 PROTECTION OF WORK

- A. Protect surfaces of masonry not being worked on at all times. When rain or snow is imminent, cover the tops of exposed masonry with a strong non-staining waterproof membrane well secured in place and in a manner that will prevent moisture from accumulating within the unfinished wall. Make adequate provisions during construction to prevent damage by wind.

3.07 CLEAN-UP

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Structural steel framing members, support members.
- B. Base plates.
- C. Grouting under base plates.

1.02 RELATED SECTIONS

- A. Metal Fabrications: SECTION 05500, Steel fabrications affecting structural steel work.

1.03 REFERENCES

- A. AISC - Code of Standard Practice - Manual of Steel Construction - Allowable Stress Design (ASD).
- B. ASTM A36/A36M - Structural Steel.
- C. ASTM A53 - Hot-Dipped, Zinc-coated Welded and Seamless Steel Pipe.
- D. ASTM A307 - Carbon Steel Externally Threaded Standard Fasteners.
- E. ASTM A325 - High Strength Bolts for Structural Steel Joints.
- F. ASTM A490 - Quenched and Tempered Alloy Steel Bolts for Structural Steel Joints.
- G. ASTM A500 - Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Round and Shapes.
- H. AWS D1.1 - Structural Welding Code.
- I. AWS A2.0 - Standard Welding Symbols.
- J. SSPC (Steel Structures Painting Council) - Painting Manual.
- K. UL - Fire Resistance Directory.

1.04 SUBMITTALS FOR REVIEW

- A. Submit per SUBMITTALS Section:
 - 1. Indicate profiles, sizes, spacing, locations of structural members, openings, attachments, and fasteners.
 - 2. All Connections.
 - 3. Cambers.
 - 4. For welded connections indicate welds with AWS A2.0 welding symbols. Indicate net weld lengths.

1.05 SUBMITTALS FOR INFORMATION

- A. Manufacturer's Mill Certificate: Certify that Products meet or exceed specified requirements.

- B. Mill Test Reports: Submit indicating structural strength, destructive and non-destructive test analysis.
- C. Welders Certificates: Certify welders employed on the Work, verifying AWS qualification within the previous 12 months.

1.06 **QUALITY ASSURANCE**

- A. Fabricate structural steel members in accordance with AISC Code of Standard Practice.
- B. Perform Work in accordance with AISC Section 10.
- C. Fabricator: Company specializing in performing the work of this section with minimum five years documented experience.
- D. Erector: Company specializing in performing the work of this section with minimum five years documented experience.
- E. Design connections not detailed on the Drawings under direct supervision of a registered Professional Engineer experienced in design of this work and licensed at the place where the Project is located.

PART II - PRODUCTS

2.01 **MATERIALS**

- A. Structural Steel Members: ASTM A36/A36M.
- B. Structural Tubing: ASTM A500, Grade B.
- C. Pipe: ASTM A53, Grade B.
- D. Bolts, Nuts, and Washers: ASTM A307 ASTM A325 bolts, ASTM A490 bolts
- E. Anchor Bolts: ASTM A307.
- F. Welding Materials: AWS D1.1; type required for materials being welded.
- G. Grout: Non-shrink type, pre-mixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing additives, capable of developing a minimum compressive strength of 7,000 psi at 28 days.
- H. Shop and Touch-Up Primer: SSPC 15, Type 1, red oxide.

2.02 **FABRICATION**

- A. Develop required camber for members.

2.03 **FINISH**

- A. Prepare structural component surfaces in accordance with SSPC.
- B. Shop prime structural steel members. Do not prime surfaces that will be fireproofed, field welded, or in contact with concrete.

- C. Zinc Coating: When galvanizing steel is required, the zinc-coating shall conform to ASTM Specification A123 and A143. Zinc-coating for threaded products shall conform to ASTM Specifications A153.

PART III - EXECUTION

3.01 EXAMINATION

- A. Coordination and Meetings: Verification of existing conditions prior to beginning work.

3.02 ERECTION

- A. Allow for erection loads, and for sufficient temporary bracing to maintain structure safe, plumb, and in true alignment until completion of erection and installation of permanent bracing.
- B. Field weld components indicated on Drawings and shop drawings.
- C. Field connect members with threaded fasteners; torque to required resistance.
- D. Do not field cut or alter structural members without approval of Owner.
- E. After erection, prime welds, abrasions, and surfaces not shop primed except surfaces to be in contact with concrete.
- F. Grout under base plates. Trowel grouted surface smooth, splay neatly to 45 degrees.

3.03 ERECTION TOLERANCES

- A. Maximum Variation From Plumb: 1/4 inch per story, non-cumulative.
- B. Maximum Offset From True Alignment: 1/4 inch.

3.04 CLEAN-UP

- A. Upon completion of the work of this Section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Miscellaneous steel framing as indicated on the drawings for the support of the work of other trades.
- B. Steel lintels, clip angles, etc.
- C. Steel railings.
- D. Steel ladders
- E. Metal Entry Grate
- F. Brass Wire Mesh
- G. Stainless steel sheets and battens for kitchen wall panels
- H. Stainless steel corner guards

1.02 DESIGN AND FABRICATION

- A. Fabricator shall be responsible for design of connections not specifically shown on the drawings and for member dimensions and fit.

1.03 REFERENCE PUBLICATIONS AND STANDARDS

- A. American Institute of Steel Construction (AISC)
- B. American Welding Society (AWS)
 - 1. "Structural Welding Code" AWS D1.1
 - 2. "Standard Welding Symbols" AWS A2.0
- C. American Society for Testing Materials (ASTM):
- D. Governing Authority: All applicable federal, state and local ordinances and directions.

1.04 SUBMITTALS

- A. Submit per SUBMITTALS Section to Owner for acceptance prior to the start of fabrication. Shop drawings shall include complete materials lists and erection, placing and detail drawings of all items, checked before submittal.
- B. Design Criteria: Handrails or other protective enclosures shall be designed to withstand stresses to which they would be normally subjected and to withstand a load of 200 lbs. applied in any direction at any point on the top rail. Connections other than those already listed shall be designed to safely support design load (dead load plus live load) of not less than 100 psi without exceeding working stresses permitted for materials.

1.05 **SCHEDULING**

- A. Deliver bolts, embedded items, etc. along with setting drawings to the job site in ample time for installation in the work of other trades.

1.06 **COORDINATION**

- A. Contractor shall be responsible for dimensions, detailing, fabrication, fitting and alignment of the work of this section.

PART II - PRODUCTS

2.01 **STEEL**

- A. Shapes and plates: ASTM A36
- B. Tubing: ASTM A501

2.02 **STAINLESS STEEL**

- A. Sheet Wall Panels: ASTM A167
 - 1. In kitchen, type 304, 20 gauge, finish No. 4, (standard polish on one side). Reference drawings for size and location.
- B. Corner Guards: ASTM A167
 - 1. Type 304, 18 gauge, finish No. 4. Reference drawings for locations and size.

2.03 **MISCELLANEOUS MATERIALS**

- A. Bolts and Nuts: ASTM A307, regular hexagon-bolt type.
- B. Washers: American Standard B27.2, Type B.

2.04 **METAL ENTRY GRATE**

- A. Premanufactured metal grate with single treads structurally joined by aluminum key lock bars. Decogard products "Pedigrid" series, clear anodized, by Construction Specialties, Inc, Muncy Pennsylvania, 717-546-5941.
- B. Carpet Insert: Custom logo, #1600 C, #9317 Fern.

2.05 **WELDING ELECTRODES**

- A. As recommended by AWS for the conditions of use.

2.06 **GALVANIZING (WHERE REQUIRED IN THE DRAWINGS OR SPECIFICATIONS):**

- A. ASTM A123, A163, or A386, as applicable.

2.07 **SHOP PAINTING**

- A. Shop paint all items included in this section. Thoroughly clean steel after fabrication and before leaving the shop, of all loose mill scale, rust, oil, grease, and other foreign matter. Apply one shop coat of primer to all surfaces except those to be field welded.

B. Dissimilar Materials Contract

Where any metal is shown contacting other dissimilar metal, keep metal from direct contact with the dissimilar materials by a coat of bituminous paint applied to a thickness of 15 mils.

C. Shop Paint:

1. Concealed Use Rust inhibiting primer which will not support combustion.
2. Exposed Steel Primer compatible with finish paint specified in PAINTING.

2.08 FABRICATION

A. General:

Shear and punch parts without leaving ragged or torn edges. Surfaces and edges to be welded shall be smooth, clean, uniform and free from loose scale, fins, tears, cracks and other defects. Provide holes or other provisions for attachment of other materials as required. *Fabricate and assemble parts in shop to the greatest extent possible. Assembled pieces shall be taken apart, if necessary, for the removal of any burrs and shavings. Parts not completely assembled in the shop shall be secured by bolts, insofar as practicable, to prevent damage in shipment and handling.*

B. Measurements:

Verify all measurements and make all field measurements before fabrication.

PART III - EXECUTION

3.01 GENERAL

- A. Provide all anchors, supports, braces, connections, sleeves, inserts, bolts, etc. required in conjunction with items of work included under this section and under other trades where necessary for securing work in place. Sizes, kinds and spacing of bolts and/or anchors not indicated or specified shall be as directed.

3.02 STORAGE AND HANDLING

- A. Perform in a manner to prevent bending, warping, twisting or other damage.

3.03 INSTALLATION

A. Field Assembly:

Properly locate and build into connecting work. Bolts and anchors shall be preset to locate anchors and anchor bolts accurately. Align and adjust all parts accurately before fastening.

3.04 CONNECTIONS

A. Welding:

Insofar as is possible weld all connections unless shown otherwise on the drawings. *Defective or unsound welds or base metal shall be corrected as provided for under AWS D1.0 at no additional cost to the owner. Welding to or on structural steel shall be in accord with the Code for Welding in Building Construction of the American Welding Society.*

B. Miscellaneous:

Fastenings shall be concealed where practicable. Thickness of metal and details of assembly and supports shall give ample strength and stiffness. Exposed fastenings shall be compatible materials, shall generally match in color and finish, and shall harmonize with the material to which fastenings are applied. Materials and parts necessary to complete each item, even though such work is not definitely shown or specified, shall be included. Where dissimilar metals are in contact, the surfaces shall be protected with a coat of bituminous paint to prevent galvanic or corrosive action.

3.05 **SUPPLEMENTARY FRAMING**

- A. Provide 3" x 3" x 1/4" angle frame for openings through roof larger than 6 inches, unless otherwise shown on the drawings.

3.06 **FIELD TOUCH-UP**

- A. After installation, field connections, including welds, bolts, and all abraded places on the shop paint, shall be painted with same material specified for shop painting.

3.07 **CLEAN-UP**

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Framing Lumber: Studs, plates, joists, bucks, nailers, blocking, furring, stripping, etc.
- B. Plywood: Decking, etc.
- C. Sheathing
- D. Building Felt
- E. Rough Hardware: Nails, clips, spikes, bolts, nuts, washers, lag screws, wood screws, anchors, angles, etc.
- F. Metal Shapes and Connections: Joist hangers, plates, connections, etc.
- G. Painting: Refer to Painting Section

1.03 RELATED SECTIONS

- A. Concrete formwork: SECTION 03100
- B. Trusses: SECTIONS 06194 and 06196
- C. Finish carpentry and millwork: SECTION 06200
- D. Lumber treatment: SECTION 06311

1.04 REFERENCE STANDARDS

- A. General: Grading shall comply with latest editions and supplements of the American Lumber Standards and the Lumber Associations or agencies which are applicable, including but not limited to the West Coast Lumberman's Association, Western Wood Products Association, Douglas Fir Plywood Association, and Southern Pine Inspection Bureau.
- B. Federal Specifications (FS)

PART II - PRODUCTS

2.01 GRADE MARKS

- A. Lumber, and plywood shall be identified by the official grade marks, except where grade mark will interfere with the natural finish.

2.02 BASIC MATERIALS

- A. Framing Lumber:
 - 1. Grades and Species: Grades and species of lumber shall be as follows except where otherwise noted or specified. Contractor may, at his option, substitute No. 3 Fir Lumber for grades and species shown, for non-load bearing and non-structural framing conditions only.

- a) Joists: #2 MG or better Southern Yellow Pine or #2 Douglas Fir or Larch, $f=1350$ psi. Refer to local building codes for minimum variance and to structural notes for exposed framing requirements.
 - b) Studs: #2 MG or better Southern Yellow Pine or #2 Douglas Fir or Larch, $f=1350$ psi. Refer to local building codes for minimum variance.
 - c) All Other Uses: #2 MG or better Southern Yellow Pine or #2 Douglas Fir or Larch, $f=1350$ psi. Refer to local building codes for minimum variance.
 - 2. Moisture Content: Not to exceed 19%.
 - 3. Treatment: Preservative treated lumber is required for all rough carpentry items to remain in place in contact with ground, concrete, masonry or roofing. Wood used for temporary carpentry work need not be treated.
- B. Plywood:
- 1. General Use: CD Grade APA fir or Yellow Pine plywood, thickness as noted or indicated on the drawings.
 - 2. Exterior and Adjacent to Roofing Work: APA rated, Structural 1 Exterior Grade APA fir or Yellow Pine plywood, thickness as noted or indicated on the drawings.
 - 3. Exposed Soffits: APA 303 Plywood siding panels, texture T-111, smooth sawn, grooves 8" o.c., thickness as noted on the drawings.
- C. Sheathing:
- 1. Plywood: APA structural 1 rated sheathing, exterior plywood, thickness as indicated on the Drawings.
 - 2. Refer to structural general notes for sheathing system requirements.
- D. Vapor Barrier: Dupont "Tyvek" "StuccoWrap"

2.03 METAL SHAPES AND CONNECTORS

- A. Joist Hangers: Standard "U" or as noted and/or detailed on the drawings.
- B. Beam Hangers: As noted and/or detailed on the drawings.
- C. Column Bases, Connectors, etc: As noted and/or detailed on the drawings.
- D. Finish of Exposed Metal Shapes and Connectors: Refer to Painting Section.

2.04 ROUGH HARDWARE

- A. Nails: Size and type best suited for the purpose, in accord with FS FF-N-105 when applicable to the type to be used. Nails shall be galvanized at roof and other applications where exposed to the weather or for use with treated lumber.
- B. Anchors: As required or as noted on the drawings.
- C. Anchor Bolts: Galvanized steel, complete with nuts and washers, size and spacing as shown on the drawings.
- D. Bolts: Lag, toggle, and miscellaneous bolts, and screws: Type, size best suited for the intended use, galvanized where exposed to weather or treated lumber.
- E. Expansion Shields: Type and size best suited for the intended use.

PART III - EXECUTION

3.01 GENERAL

- A. Cut framing square at bearings, fit closely, set accurately to required lines and levels and anchor securely in place at bearings and connections. Set all walls plumb and straight. Do all cutting and framing of rough work, finish work, partition work, etc. as required for the work of other trades when same comes in contact with carpentry work. Install framing to allow passage of pipes and ducts. Members shall not be cut, notched, or bored more than 1/4 of their depth without adequate and approved reinforcing. Fastener sizes and spacing shall be sufficient to develop maximum strength of connections without splitting members.

3.02 WALL AND PARTITION FRAMING

- A. Sole Plates: Treated, size indicated on the drawings (match studs) set flat on concrete. Anchor plates to concrete with anchor bolts at exterior wall conditions and with machine driven fasteners, spaced as recommended by the manufacturer, at interior conditions. Omit sole plate at all openings.
- B. Studs: Size indicated on the drawings spaced at 16" o.c. Double studs at all openings.
- C. Top Plates: Double member top plates, unless shown otherwise on the drawings. Sizes as indicated on the drawings (match studs) splice over studs. Stagger splices of members.
- D. Opening Headers: Two pieces of stud material and solid plywood spacer, or as noted on the drawings. Set on edge and bear on stud(s).
- E. Corners and T's: Construct of not less than three full stud members.
- F. Fire Stops: Install fire-stops (continuous blocking between studs) in all partitions. Space rows at 8'-0" o.c. vertically starting at floor line.

3.03 CEILING AND ROOF FRAMING

- A. Size and spacing indicated on the drawings. Tops of rafters and joists shall form true planes and shall be well spiked to plates. Frame openings in ceilings and roofs with headers and trimmers.

3.04 MISCELLANEOUS FRAMING

- A. Blocking: Provide blocking or suitable edge support between framing members where necessary to support edges of finish materials, applied moldings, etc.
- B. Furring: Size as indicated on the drawings. Install at sixteen (16) inches on center unless otherwise shown, run in lengths as long as practicable, butt jointed and rigidly secured in place.

3.05 SHEATHING

- A. Install full height of walls as shown on the drawings. Secure in place with nails as required to hold in position, or as noted on structural drawings.
- B. Install "Tyvek" per manufacturer's installation specs.

3.06 PLYWOOD DECKS

- A. Apply with face grain at right angles to supports, end joints over supports and staggered. Edges shall be 1/8 inch apart at side joints and 1/16 inch apart at end joints and nailed at supported edges at six (6) inches on center and at intermediate supports at twelve (12) inches on center. Nailing of edges shall be 3/8 inch from edge.

3.07 NAILING

- A. Where driving of nails causes splitting, holes for nails shall be subdrilled. The following is the minimum schedule for common wire nails:
1. Built-up beams: As noted on the drawings
 2. Double top and sole plates: Lower member to studs - 2 - 16d; upper member to lower, staggered - 16d at 12"; at intersection - 3 - 16d
 3. Blocking between studs: End nail, each end - 2 - 16d
 4. Blocking between studs: Toe nail, each end - 2 - 8d
 5. Ribbons to studs: 1" - 2 - 8d
 6. Wood stripping: 1 - 8d each bearing (use concrete nails at concrete)
 7. Multiple studs: For widths over 4", stagger - 16d at 12"
 8. Studs to bearings: Toe nails, each side - 2 - 8d
 9. Joists at all bearings: Toe nail each side - 2 - 8d
 10. Rafters and trusses at all bearings: Toe nail each side - 2 - 8d
 11. Blocking between joists and rafters: Toe nails, each side, each end - 3 - 8d or splice through using 2 - 16d.
- *No staples will be permitted as a substitute for nails.**

3.08 CLEAN-UP

- A. Upon completion of work of this section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Wood trim
- B. Wood paneling
- C. Millwork (cabinets, shelving, etc.)
- B. Installation of:
 - 1. Doors
 - 2. Hardware
 - 3. Weatherstripping and seals
 - 4. Millwork
- E. Laminated plastic assemblies
- F. Nails, screws, bolts, fasteners, glue, etc.

1.02 SUBCONTRACTORS QUALIFICATIONS

- A. Millwork must be fabricated and assembled by a millwork subcontractor equipped and experienced to do work equal to the "Quality Standards" of the Architectural Woodwork Institute for fabricating quality millwork.

1.03 MILLWORK DESIGN AND FABRICATION

- A. Details shown on drawings are outline requirements and are not intended to interfere with fabricator's standard shop procedures and practices. Where important differences occur between details and fabricator's standards, flag such differences on shop drawings. The standards of AWI shall apply and by reference are part of this specification.

1.04 REFERENCE STANDARDS

- A. Federal Specifications (FS)
- B. Western Wood Products Association (WWPA)
- C. American Woodwork Institute (AWI)

1.05 SUBMITTALS

- A. Submit Shop Drawings per SUBMITTALS Section to Owner for acceptance prior to fabrication. Include material lists and drawings showing fabrication of typical units, unit assemblies, locations and installation setting details. List cabinet hardware proposed; suited to use or function of item. Identify materials required to complete work; ready for installation.
- B. Samples: Submit two samples of each of the following items:
 - 1. 12" X 12" samples of each type of plywood.
 - 2. 12 inch long sample of each type of wood trim.
 - 3. Laminated plastic sample chips showing texture, finish and color indicated on the drawings.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and portions of this specification written on the basis of using the products of specific manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 MATERIALS

A. General Use:

1. General: Work solid stock to patterns shown. Standard shape materials shall conform to patterns indicated in current grading rules for the species.
2. Interior Wood Trim: Contractor's option: "C" Select Grade Southern Yellow Pine, Ponderosa Pine, Sugar Pine, Clear Birch, or Clear Poplar.
3. Wood Paneling: Georgia - Pacific Corp., 11/32" ply-bead classic. 4'x8' panels, sanded, unfinished wood paneling.
4. Exterior Wood Trim (painted): "C" Select Grade Yellow Pine or Fir.
5. Shelving: 3/4 inch AB Grade Fir plywood with exposed edges edgebanded.
6. Nails: FS FF-N-103c and FF-N- 105a. Stainless steel for Redwood.
7. Screws: FS FF-S-11 lb.
8. Lag Screws and Bolts: FS FF-B-561, type and grade best suited for purpose used.
9. Toggle Bolts: FS FF-B-588b.

B. Cabinets and Counters:

1. Doors, Panels, Ends, Etc. Laminated plastic assemblies.
2. Stiles, Rails, Etc. 3/4 inch paint grade solid birch.
3. Shelving and Dividers 3/4 inch AB Grade Fir plywood; exposed edges banded.
4. Backs 1/4 inch AB Grade fir plywood.
5. Framing, Blocking, Nailers, Etc. Pine
6. Hinges Continuous concealed piano hinges
7. Filler Strips Match face materials.
8. Hardware Hager, Knape and Vogt, Stanley; to suit functions.
9. Pulls Stanley No. 4478 satin anodized aluminum
10. Shelf Standards and Brackets Noted on drawings.
11. Locks Noted on drawings

C. Laminated Plastic Assemblies: NEMA standard LD-1; Class 1, high-pressure decorative laminates:

1. Surface Sheet: .05 inch thick
2. Backing Sheet: .02 inch thick phenolic backing sheet.
3. Edging: .028 inch thick.
4. Adhesive: Fire resistant; Acceptable to laminate manufacturer.
5. Backing: 3/4 inch AB Group 1, exterior grade, APA fir plywood.
6. Colors: Shall be as shown on the drawings:

2.03 MOISTURE CONTENT

- A. Trim lumber; 12% maximum at time of delivery.

2.04 **GRADING AND MARKING**

- A. Softwood Lumber: FS MM-L-0075lf.
- B. Hardwood Lumber: FS MM-L-00736a.

2.05 **FABRICATION**

- A. Fabricate in shop of millwork subcontractor and assemble in single and complete units to the greatest extent that requirements of delivery and installation in building will permit.

PART III - EXECUTION

3.01 **TRIM CARPENTRY**

- A. Install true and square. Blind nail finish surfaces wherever possible; set surface nails. Use commercially long lengths; jointed at solid fastenings. Butt joint square members, cope internal corners, and miter external corners.

3.02 **MILLWORK AND LAMINATED PLASTIC ASSEMBLIES**

- A. Delivery, Storage and Conditions: Deliver when weather is favorable and store in building at time temperature of 65° F to 75° F can be maintained.
- B. Workmanship: Fabricate in shops having record of production of quality work; wood with fine, smooth surfaces and joints tight. Shop joints made with water resistant glue or hot-glued under pressure.
- C. Installation: Fit in proper location and securely anchor to walls and floor; plumb, true and square. Drill holes in wood when required. Provide blocking, nailers, fillers, trim, etc.

3.03 **DOORS, HARDWARE AND WEATHERSTRIPPING SEALS**

- A. General: Install doors, frames and trim, including hardware and weatherstripping; fit, adjust and place in operating condition. Remove doors and hardware for finishing doors and frames and re-install after finishing; re-adjust and place in operating condition.
- B. Installation of Doors and Hardware: Accurately fit hardware in accord with manufacturer's instructions and adjust to smooth quiet operation. Fit and hand doors plumb and true; uniform 1/8 inch space around edges and 1/2 inch clearance at floor unless otherwise shown on the drawings. Active edge of door shall be in contact with stop from top to bottom. Match door hardware to frame hardware. Hardware locations unless shown otherwise on drawings.
 - 1. Top Butts: 5 inches down to top of butt from head of frame section.
 - 2. Bottom Butts: 10 inches up from floor to bottom of butt.
 - 3. Middle Butts: 3'-2" to centerline from floor.
 - 4. Knobs: 3'-2" to centerline from floor.
 - 5. Pulls: 3'-6" to centerline from floor.
 - 6. Pushes: 4'-2" to centerline from floor.
 - 7. Locks: 3'-2" to centerline from floor.
- C. Installation of Weatherstripping and Seals: Accurately fit per manufacturer's instructions.

3.04 **SANDING**

- A. After installation, hand-sand and steel-wool millwork, trim, and finished woodwork to produce fine, smooth, uniform clean surfaces; free of defects. Ease square edges with sandpaper.

3.05 **CLEAN-UP**

- A. Upon completion of work of this section, remove related debris from premises.

END OF SECTION

SECTION 06311
PRESERVATIVE TREATED LUMBER

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Labor, materials, services, equipment and appliances for preservative treatment of lumber.

1.02 RELATED SECTIONS

- A. Rough Carpentry: SECTION 06100

1.03 REFERENCE STANDARDS

- A. American Wood Preservative Institute (AWPI)
- B. American Wood Preservative Association (AWPA)
- C. American Wood Preservative Bureau (AWPB)

PART II - PRODUCTS

2.01 PRESERVATION MATERIALS

- A. As recommended by AWPI for protection against decay and wood destroying insects.

PART III - EXECUTION

3.01 REQUIREMENT

- A. Pressure treat all lumber designated "treated" on the drawings and/or other sections of these specifications to conform to AWPA Standard C2. The presence of AWPB quality mark LP2 shall be accepted as evidence of conformance to this specification.

3.02 INSTALLATION

- A. Not part of the work of this section.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Thermal insulation for exterior walls

1.02 REFERENCE STANDARDS

- A. Federal Specifications (FS)
- B. American Society for Testing Materials (ASTM)

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and this specification written on the basis of using the products and the specifications of Schuller International, Inc., Building Insulation Division, Plano, Texas. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 EXTERIOR WALL INSULATION

- A. "Thermal-Shield" kraft-faced, ASTM-136, ASTM C-665, Type II, Class C, 6 inch thick (R-19) for 2x6 walls and 3-1/2 inches thick (R-13) for 2x4 walls, fiberglass with stapling flanges, Perm Rating of 1.0; HH-I-521F. R-Value designations in accord with ASTM C518.

PART III - EXECUTION

3.01 GENERAL

- A. Insulate in framing spaces, including areas behind electrical outlets, around structural obstructions, jambs, sills, etc. Cover plates and headers with vapor barrier paper. Provide complete insulation envelope for entire building whether specifically shown or not.

3.02 DELIVERY AND STORAGE

- A. Deliver in original unopened packages and store in enclosed shelter; protect from damage and exposure to elements. Remove damaged or deteriorated materials from premises.

3.03 INSTALLATION

- A. Exterior Walls
Install between framing members, Kraft-facing placed inward and recessed from face of framing, flanges stapled to sides of framing members at each end of blanket and along length of flanges. Staple flanges 6 inches o.c. maximum; 9/16 inch staples. If required by local code, staple flanges on vapor barrier side to faces of framing members; flat, without laps, bulges or folds.

3.04 CLEAN-UP

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

SECTION 07212
BOARD INSULATION

PART I - GENERAL

1.01 **SECTION INCLUDES**

- A. Thermal Insulation for exterior foundations.

1.02 **REFERENCE STANDARDS**

- A. Federal Specifications (FS)

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The drawings were prepared and this specification written on the basis of using the products and the specifications of UC Industries (A Joint Venture of United States Gypsum Company and Condec Corporation), Chicago, Illinois. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 **INSULATION**

- A. "FOAMULAR" polystyrene extruded foam panels, 1 inch thick, (R-5.4); FS HH-1-524B, Type II, Class B.

PART III - EXECUTION

3.01 **GENERAL**

- A. Insulate interior face of exterior concrete foundation beams, including returns under floor slab as shown on the drawings. Provide complete insulation membrane around entire building whether specifically shown or not.

3.02 **DELIVERY AND STORAGE**

- A. Deliver in original unopened packages and store in enclosed shelter; protect from damage and exposure to direct sunlight. Remove damaged or deteriorated materials from premises.

3.03 **INSTALLATION**

- A. Install after building embankment and granular cushion have been completed and vapor barrier is in place. Lay insulation in place, edges closely pressed together, against inside face of foundation beam excavation; returned under floor slab as shown on the drawings. Pour concrete to cover insulation.

3.04 **CLEAN-UP**

- A. Upon completion of work of this section, remove related debris from premises.

END OF SECTION

SECTION 07220
ROOF AND DECK INSULATION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Roof and Deck Insulation
- B. Coordination with roofing work
- C. Guaranty (Part of Roofing Guaranty)

1.02 REGULATOR REQUIREMENTS

- A. Conform to applicable codes for roof assembly fire hazard requirements, except where more restrictive requirements are shown on the drawings and/or required by these specifications.

1.03 SUBMITTALS

- A. Submit product data per SUBMITTALS Section; show products for complete system. Include manufacturer's installation instructions. Owner's acceptance is required prior to shipment.

1.04 COORDINATION OF WORK

- A. Roof and deck insulation work in conjunction with roofing shall be installed by the roofing contractor or by a subcontractor employed by him. In either case, roofing contractor is responsible for coordinating its installation with roofing work and other contractors

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and this specification written on the basis of using the products The Celotex Corporation, Tampa, FL. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.

2.02 MATERIALS

- A. Insulation (at single-ply roof): One layer of 3 inch thick "Hy-Therm AP" roof insulation, glass fiber reinforced polyisocyanurate foam roof insulation (R-18.8) over on layer of 1/2 inch "Dens-Deck" roof board by Georgia- Pacific. Run second layer perpendicular to first. Provide tapered insulation to form counter slopes indicated on Drawings.
- B. Base, Felts, Joint Tape, and Fasteners As recommended by manufacturer.

PART III - EXECUTION

3.01 DELIVERY AND STORAGE

- A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact. Store products in weather protected environment, clear of ground and moisture.

3.02 **INSPECTION**

- A. Verify deck is supported and secured, clean and smooth, free of depressions, waves or projections and properly sloped. Verify deck surfaces are dry and free of snow or ice. Confirm dry deck by moisture meter with 12 percent moisture maximum. Beginning of installation means installer accepts existing substrate.

3.03 **ENVIRONMENTAL CONDITIONS**

- A. Do not apply materials during inclement weather or to damp or frozen deck surface.

3.04 **PREPARATION**

- A. Verify flatness and tight joints of wood decking. Seal joints of plywood with tape. Fill knot holes with latex filler.

3.05 **PROTECTION OF ADJACENT SURFACES**

- A. Protect adjacent building surfaces against damage from insulation work.

3.06 **APPLICATION**

- A. Install complete insulation system in accord with manufacturer's installation instructions.

3.07 **CLEANING**

- A. In areas where finished surfaces are soiled by any source of soiling caused by work of this Section, consult manufacturer of surfaces for cleaning advise and conform to their documented instructions. Repair or replace defaced or disfigured finishes caused by work of this Section.

END OF SECTION

SECTION 07411
PREFORMED METAL ROOFING

PART I - GENERAL

1.01 SCOPE OF WORK

- A. Furnish labor, materials, services, equipment and appliances required for preformed metal roofing work indicated on the drawings and specified herein.

1.02 WORK INCLUDED, BUT NOT INCLUSIVE

- A. Preformed metal roofing and soffit panels
- B. Matching metal trim and flashings
- C. Concealed fasteners
- D. Shop drawings
- E. Samples

1.03 RELATED WORK SPECIFIED ELSEWHERE

- A. Flashing and sheetmetal work related to other types of roofing
- B. Building insulation
- C. Roof framing systems

1.04 REFERENCE PUBLICATIONS

- A. ASTM A792-83-A2 50: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized by the hot dip process) general requirements (galvalume).
- B. SMACNA: "Architectural Sheetmetal Manual" Sheetmetal and Air Conditioning Contractors National Association, Inc.

1.05 SHOP DRAWINGS

- A. Prior to fabrication, furnish shop drawings for acceptance. Show gauges, profiles, fastener types and locations, and flashing details.

1.06 SAMPLES

- A. Submit samples of panel proposed for Architect's acceptance.

1.07 COORDINATION

- A. Contractor shall be responsible for dimensions, detailing, fabrication, fitting and alignment of the work of this section.

1.08 **GUARANTEE**

- A. The work performed under this Section of the Specifications shall be guaranteed in writing for a period of two years from the date of Substantial Completion against defects in materials and workmanship, and against leaks (except leaks caused by abuse, lightning, hurricane, tornado, hail storm and other unusual climatic phenomena of the elements). During the guarantee period, the contractor and roofing subcontractor jointly agree that within 24 hours of receipt of notice from the Owner, the defects in the roofing, within the meaning of the guarantee, will be immediately repaired and within 10 working days after the receipt of notice from the Owner, the defective roofing will be restored to the standard of the original Specifications without cost to the Owner, including all labor, materials and other costs incidental to the Work.

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The Drawings were prepared and this Specification written on the basis of using the products of Petersen Aluminum Corporation, Elk Grove Village, Illinois. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.

2.02 **METAL ROOFING**

- A. Vertical Leg Structural Standing Seam Roof System - smooth finish, roll-formed, lockseam panel system, 18 inches wide:
 - 1. Material: Manufacturer's standard 24 gauge, G-90, hot dipped galvanized steel, ASTM A-446, ASTM E-111-61.
 - 2. Finish: "Smooth", Kynar 500.
 - 3. Color: Copper Penny.
- B. Flush soffit Panels - smooth finish, roll-formed, lockseam panel system, 7 inches wide:
 - 1. Material: Manufacturer's standard 24 gauge, G-90, hot dipped galvanized steel, ASTM A-446, ASTM E-111-61.
 - 2. Finish: "Smooth", Kynar 500.
 - 3. Color: Copper Penny.

2.03 **METAL TRIM AND FLASHINGS**

- A. Fabricate from same thickness and finish material as roofing panels.

2.04 **FASTENERS**

- A. Concealed, corrosion resistant, type and size required by manufacturer's specifications.

2.05 **CLOSURES**

- A. Manufacturer's standard, match panels, to fit configuration of the panel specified.

2.06 **UNDERLAYMENT**

- A. 30 pound felt

2.07 **JOINT SEALANTS**

- A. As specified in JOINT SEALANTS.

PART III - EXECUTION

3.01 **STORAGE AND HANDLING**

- A. Perform in a manner to prevent bending, warping, twist- or other damage. Do not use damaged or bent materials. Store units on raised support and protect from weather.

3.02 **WORKMANSHIP**

- A. Use only skilled and experienced personnel. Workmanship shall be equal to the best practice of modern metal roofing installation.

3.03 **INSTALLATION**

A. **General Requirements:**

1. **Roofing Sheets:** Provide the finished dimensions, seam to seam. Furnish continuous sheets. Single pieces less than eight (8) feet long may be used to connect to shop fabricated inside and outside corners.
2. **Installation:** Install panels weather-tight, without waves, warps, buckles, fastening stresses or distortion, allowing for expansion and contraction. Installation shall be in strict accordance with manufacturer's written instructions and approved shop drawings.
3. **Seams:** Standing seams: 1 3/4 inch high.
4. **Dissimilar Materials Contact:** Where sheetmetal is shown contacting concrete, masonry materials, steel, other dissimilar metal, or is contacting wood, keep sheetmetal from direct contact with the dissimilar materials by a coat of bituminous paint applied to a thickness of 12 to 14 mils.
5. **Cutting and Fitting:** Cutting, fitting, drilling, and other operations in connection with sheetmetal required to accommodate the work of other trades shall be performed by sheetmetal mechanics.
6. **Flashing:** Install at intersections of roof with vertical surfaces and at projections through roof. Where sheetmetal abuts or extends into adjacent materials, the juncture shall be executed in a manner to assure weather-tight construction.

3.04 **PROTECTION OF COMPLETED WORK**

- A. Protect work from damage or abuse. Replace all damaged materials with new material at no additional cost to Owner.

3.05 **CLEANING**

- A. Clean work of other trades damages and/or marred during the installation of sheetmetal roofing work. Sheetmetal surfaces shall be cleaned with cleansers recommended by manufacturers of sheetmetal. Installed sheetmetal surfaces must be clean and uniform in appearance.

END OF SECTION

SECTION 07533
THERMOPLASTIC SHEET ROOFING MECHANICALLY ATTACHED

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Thermoplastic sheet roofing
- B. Thermoplastic sheet and formed flashings
- C. Walkway pad
- D. Inspection
- E. Warranty

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Roof insulation substrate
- B. Wood and plywood nailers
- C. Metal flashings

1.03 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer: Fibertite single ply roof system, by Seaman Corporation.
 - 2. Acceptable Alternate Manufacturer: Sarnafil, Roofing and Waterproofing Systems
 - 3. Applicator: Company specializing in installation of sheet roof membranes with three years documented experience.
- B. Approval of Applicator: Approved, in writing, by roofing system manufacturer.

1.04 REFERENCE STANDARDS

- A. Underwriters Laboratories (U.L.)

1.05 SUBMITTALS

- A. Shop Drawings: Submit per SUBMITTALS Section; show special joint or termination conditions and conditions of interface with other materials. Include outline of roof and roof size with location and type(s) of penetrations. Architect's/Owner's acceptance is required prior to start of fabrication and/or shipment.
- B. Product Data: Submit per SUBMITTALS Section; include data for sheet membrane, elastic flashings, joints, and sealants, with temperature range for application of membrane.
- C. Installation Instructions: Submit manufacturer's written instructions per SUBMITTALS Section.

1.06 PRE-INSTALLATION CONFERENCE

- A. Convene a pre-installation conference one week prior to commencing work of this Section. Require attendance of parties directly affecting work of this Section. Review conditions of installation, installation procedures, and coordination required with related work.

1.07 **COORDINATION**

- A. **Roof Insulation:** Roofing subcontractor is responsible for coordination of proper installation, compatibility, and timing of installation of roof insulation, specified in ROOF AND DECK INSULATION.
- B. **Flashing and Roof Sheet Metal:** Flashing and sheet metal work in conjunction with roofing, specified in FLASHING AND SHEET METAL, shall be installed by roofing subcontractor or by a subcontractor approved in writing or employed by him. In the latter case, roofing subcontractor is responsible for adequate and expeditious performance of sheet metal work and for coordinating its installation with roofing work and other subcontractors.

1.08 **WARRANTY**

- A. Manufacturer's standard written 15 year limited warranty.

1.09 **GUARANTEE**

- A. Contractor and roofing subcontractor jointly and unconditionally guarantee thermoplastic sheet roofing for a period of two years from date of substantial completion, against defective materials and workmanship, and against leaks (except leaks caused by abuse, lightning, hurricane, tornado, hail storm, and other unusual climatic phenomena of the elements). During the guarantee period, Contractor and roofing subcontractor jointly agree that within 24 hours of receipt of notice from Owner, defects in roofing, within the meaning of the guarantee, will be immediately repaired and within 10 working days after receipt of notice from Owner, defective roofing will be restored to standard of original specifications without cost to Owner, including labor, materials and other costs incidental to the work.

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The Drawings were prepared and this Specification written on the basis of using the products of Seaman corporation, Wooster, Ohio, 800-927-8578; DURO-LAST Roofing, Inc., Saginaw, Michigan, or Samafil Inc., Canton, Mass., 800-451-2504.

2.02 **MATERIALS**

- A. **Membrane:** High tenacity, low shrink white polyester fabric, coated with "Thermoplastic Alloy"; 4.2 oz/s.f., resistant to ultra-violet rays and micro-organisms and non-wicking. Color; white.
- B. **Accessories:** Manufacturer's standard stack covers, inside and outside corners, parapet wall covers, air vents, clamps, etc.
- C. **Walkway Pads:** Manufacturer's standard "Tough Track " pads in contrasting color.
- D. **Fasteners ,Stress Distribution Plates and Caulk:** As specified by manufacturer for substrate shown and/or specified.

2.03 **FABRICATION**

- A. As specified by manufacturer for substrate shown or specified.

2.04 **PERFORMANCE**

- A. Finally installed roofing system shall be U.L. Class A and meets local codes.

PART III - EXECUTION

3.01 DELIVERY AND STORAGE

- A. Deliver materials in original, unopened containers, labeled with manufacturer's name, brand name, and such identifying numbers as are appropriate. Store in weather protected environment clear of ground and moisture.

3.02 INSPECTION

- A. Verify substrate is clean and smooth, free of depressions, open joints, waves or projections, properly sloped to drains, valleys, or eaves. Verify roof openings and penetrating elements through roof are solidly set, cant strips are in place and deck is supported and secured. Verify deck surfaces are dry and free of snow or ice. Conform dry deck by moisture meter with 12 percent moisture maximum. Do not apply roofing materials to damp, frozen, dirty, dusty, or deck surfaces unacceptable to manufacturer. Beginning installation means acceptance of substrate.

3.03 PREPARATION

- A. Clean substrate and repair defects in surface to receive roofing in accord with manufacturer's instructions.

3.04 MOCK-UP

- A. Provide mock-up of installed membrane to represent conditions of finished work including internal and external corners, seam jointing, attachment method, sealing and counterflashing.

3.05 INSTALLATION

- A. Install complete roofing system membrane, accessories, and fastening devices, including related splicing, bonding and sealing in accord with manufacturer's instructions.

3.06 FIELD QUALITY CONTROL

- A. Upon completion of installation, roofing manufacturer inspect work of this Section to ascertain roofing system has been installed according to instructions and to certify in writing that roofing, as installed, is acceptable for warranty.

3.07 PROTECTION

- A. Protect completed work in accord with manufacturer's instructions and recommendations.

3.08 CLEAN-UP

- A. Upon completion of work of this Section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Sheetmetal flashings in contact with roofing.
- B. Mechanical equipment support curb sheetmetal caps and flashings.
- C. Other metal flashings indicated on the drawings.
- D. Elastomeric flashing for walls, doors and windows.
- E. Soffit vents.

1.02 RELATED SECTIONS

- A. Modified Bitumen Roofing: SECTION 07525
- B. Sealants and Caulking: SECTION 07920
- C. Painting: SECTION 09900

1.03 APPROVAL OF SUBCONTRACTOR

- A. Sheetmetal subcontractor for work in contact with roofing shall be approved in writing by roofing subcontractor. Approval must be submitted at same time list of subcontractors is submitted to Architect for approval.

1.04 REFERENCES

- A. Publications:
Perform sheetmetal work in accord with recommendations in the latest edition of the Architectural Sheet Metal Manual, as published by the Sheet Metal and Air Conditioning National Contractor's Association.
- B. Standards:
 - 1. American Society for Testing Materials (ASTM)
 - 2. Federal Specifications (FS)

1.05 COORDINATION

- A. Flashing and sheetmetal work in contact with roofing shall be installed by the roofing contractor who applies the roofing or by a subcontractor approved by or employed by him. In either case, the roofing contractor shall be responsible for adequate and expeditious performance of the sheetmetal work and for coordinating its installation with roofing work and other contractors.

1.06 GUARANTEE

- A. In addition to the requirements specified, sheetmetal work shall be completely watertight. The Contractor shall furnish in writing guarantees providing for repairs to sheetmetal work at no additional cost to the Owner. Guarantee shall include repair of all leaks or defects in sheetmetal materials and workmanship appearing within two years of date of acceptance by the Owner.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and portions of this specification written on the basis of using the products of specific manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 BASIC MATERIALS

A. Sheetmetal:

1. "PAINTLOK", "ZINC-GRIP"; ASTM A525, galvanized, approved for painting where concealed.
2. All exposed sheetmetal edges shall be hemmed 1/2 inch on underside.

B. Elastomeric Flashing:

Non-reinforced, homogeneous, extruded elastomeric sheet flashing .02 inch thick; one of the following:

1. Nervastral Seal-Pruf HD with cold application mastic, by Rubber & Plastic Compound Co., Inc.
2. Wascoseal with Wascoplex Mastic, by Wasco Products, Inc.
3. Nu-Flex with Nu-Flex Mastic, by Sandell Manufacturing Co., Inc.

2.03 MISCELLANEOUS MATERIALS

- A. Building Paper: ASTM D266 two layers No. 15, asphalt saturated roofing felt.
- B. Screws and Bolts: Galvanized, plated or non-ferrous metal.
- C. Solder: Composition 40% lead and 60% tin for use with galvanized sheet.
- D. Soldering Flux: Federal Specification O-F-506, Type I, Form A or B or equal commercial product as approved on job.
- E. Mastic: Flashing cement, equal to BESTILE, Manville Products Corporation.
- F. Bituminous Paint: ASTM C1187, NA-TAZ, Pure Asphalt Company, Chicago, Illinois, or equal.

2.04 SHEETMETAL MINIMUM GAUGES

- A. Gauges are based on galvanized sheetmetal. Where other metal is used, use equivalent weights in tables in Sheet Metal Manual. Based on galvanized sheetmetal. Following are minimum weights for work specified herein:

<u>ITEMS</u>	<u>GAUGE</u>
1. Hook strips	22
2. Joint covers	22
3. Cap flashing	22
4. Special flashing	22
5. Pitch pans	24
6. Window sill flashing	22
7. Gravel Stops	24
8. Downspouts	24
9. Scuppers	24

2.05 **DISSIMILAR MATERIALS CONTRACT**

- A. Where sheetmetal is shown contacting concrete, masonry materials, steel, other dissimilar metal, or is contacting wood, keep sheetmetal from direct contact with the dissimilar materials by a coat of bituminous paint applied to a thickness of 15 mils.

2.06 **JOINT SEALANT**

- A. As specified in SEALANTS AND CAULKING

PART III - EXECUTION

3.01 **GENERAL**

- A. Conform to recognized commercial standards.

3.02 **SHEETMETAL INSTALLATION**

A. **General:**

1. Surfaces to which sheetmetal will be applied shall be true, smooth, clean, dry and free from defects which might lead to distortion of metal work. Install all sheetmetal work in accordance with approved standards in reference manual, and coordinate with work of other trades, particularly the roofing trade for proper sequence of flashing work.
2. Proper and adequate provisions shall be made in fabrication, installing and fastening sheetmetal work for expansion and contraction of metal and other materials entering into the work so that pulling, splitting, opening of joints, warpage or other failure of the work shall be prevented. expansion joints in sheet metal placed not farther than 40 feet apart.

B. **Underlayment:**

Install building paper under all sheetmetal covering over wood nailers or blocking. Lap joints two inches and nail at 1'-4" on center, or secure with flashing cement.

C. **Seams:**

Finish seams neatly with lines trimmed true and sharp. Number of joints shall be as few as is consistent with commercial sizes of materials.

1. Flat seams, not less than 1/2" in width, shall be either single locked and sweated with solder, or double locked and malletted flat.
2. Loose locked seams shall be single locked.
3. Cross joints shall be loose locked and filled with elastomeric sealant.

D. **Cleats:**

When applied as an exposed covering, fasten sheet metal to wood nailers with 2" X 3" cleats of same kind and weight of metal, spaced not over 12" center to center along hems, with one end of cleat turned into hem and opposite end secured with two fasteners and turned back over fasteners.

E. **Coping:**

Coping constructed in lengths not exceeding 10 feet. Joints between sections shall be tight and lay flat over splice plates. Coping shall be mechanically fastened at 12" o.c. over 45 mil neoprene sheet. Bent, crimped or warped sections are not permitted. Coping at corners shall be soldered.

F. Counter flashing:

Counter flashing constructed in lengths not exceeding 10 feet and installed in receiver so that flashing lays tightly against base flashing and overlaps base flashings a minimum of 4 inches. Joints between sections shall be tight and lay flat. Metal at corners continuous. Bent, crimped or warped sections are not permitted.

G. Sheet Metal Penetration Cover:

Install Sheet metal penetration cover at pipes, conduits and other items penetrating roof. Bed flanges with plastic cement (Fed. Spec. SS-C-153, Type II) on top of roofing. Caulk around penetrations. Fill cover with expanding foam.

H. Soldering:

Remove foreign materials and surface oxides prior to soldering, and solder as soon as possible after cleaning with degreasing solvents. Type of flux shall be compatible with solder used.

3.03 **ELASTOMERIC FLASHING INSTALLATION**

A. General:

Install where and if shown on the drawings and at all locations normally considered good practice. Trim cut flashings clean with edges of trim, etc., to provide a finished installation where no flashing surfaces are visible.

B. Wall Flashing:

Install where shown on the drawings, 1/2" inward from outside face of wall and extend up and through wall as indicated, joints lapped 4 inches minimum with laps bedded in sealant.

C. Door and Window Flashing:

Install at all sills and heads, whether or not shown on the drawings. Install 1/2" inward from outside face of wall and extend 6" on each side of opening, up and through wall as indicated. Dam ends of flashing to prevent water penetration at ends. Sheeting shall not be allowed to hang free prior to completion of wall finish, but shall be nailed to framing (behind sheathing) with nails and discs.

D. Parapet Flashing:

Lay directly over top middle course of parapet, under coping and extend down one course and out to within 1/2 inch of face of wall.

3.04 **CLEAN-UP**

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

SECTION 07722
ROOF HATCHES

PART I - GENERAL

1.01 SCOPE OF WORK

- A. Furnish labor, materials, services, equipment and appliances required for roof hatch work indicated on the Drawings and specified herein.

1.02 SUBMITTALS

- A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Show details, hardware, locking devices, flashing, insulation and anchors. Include manufacturer's installation instructions. Detail to serve as installation drawings. Owner's acceptance is required prior to start of fabrication and/or shipment.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The Drawings were prepared and this Specification written on the basis of using the products of the Bilco Company, New Haven, Connecticut. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.

2.02 ROOF HATCHES

- A. Type "S-20"; completely assembled:
 - 1. Curbs
14 gage prime painted steel with 22 gage steel liner; 12 inches high; extended flanges for mounting with screws; Integral cap flashing of same gage of material as curb.
 - 2. Covers
Same materials and gages as curbs; continuous Neoprene gasket weatherproof seal.
 - 3. Curb and Cover Insulation One inch thick rigid.
 - 4. Hardware
Heavy duty pintle hinges, manually operated compression spring operators enclosed in telescopic tubes, positive snap latches with plated turn handles inside and out, automatic hold-open arm with vinyl grip handle; cadmium plated finish.

2.04 FABRICATION

- A. Fabricate free of visual distortions and defects. Weld corners and joints. Provide for removal of condensation. Provide weather-tight assembly.

PART III - EXECUTION

3.01 PROTECTION

- A. Cover and protect hatches from damage before and after installation. Replace damaged covers at no additional cost to Owner.

3.02 **INSTALLATION**

- A. Install in accord with manufacturer's instructions. Coordinate with installation of roofing system and related flashings. Provide weather-tight installation. Apply bituminous paint on metal surfaces of units in contact with cementitious materials and dissimilar metals.

3.03 **CLEAN-UP**

- A. Upon completion of work of this Section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Exterior sealing; waterproofing and visual requirements.
- B. Interior sealing; painting requirements.
- C. Interior mildew-resistant sealant.
- D. Fire-resistant joint sealant.
- E. Preparing sealant substrate surfaces.
- F. Sealant and backing.

1.02 INTENT

- A. Requirements of this Section control the kinds and quality of sealing work of the Technical Sections of these Specifications unless specifically directed otherwise in other Sections and/or on the Drawings.
- B. Provide sealant required to close joints that would allow moisture or air to enter structure between fixed materials as shown on the drawings and as herein specified including but not limited to:
 - 1. Sealing of interior perimeter joints of window framing, door frames, and other openings in walls.
 - 2. Setting of thresholds in sealant.
 - 3. Sealing of joints between countertops and wall surfaces for a sanitary joint.
 - 4. Sealing of joints of every nature and description that would allow moisture or air penetration.
 - 5. Sealing of joints indicated to be caulked or sealed whether specifically mentioned herein or not.
 - 6. Sealing around all pipe, duct and vent penetrations.

1.03 QUALITY ASSURANCE

- A. Manufacturer:
Company specializing in manufacturing products specified in this Section with minimum three years documented experience.
- B. Applicator:
Company specializing in applying work of this Section with minimum three years documented experience.

1.04 REFERENCES

- A. Publications:
 - 1. "Sealing and Waterproofing Institute" (SWI)
 - 2. "Sealant and Caulking Guide Specification"

B. Standards:

1. American Society for Testing Materials (ASTM)
2. Federal Specifications (FS)
3. American National Standards Institute (ANSI)

1.05 **COORDINATION**

- A. Coordinate work of this Section with all Sections referencing this Section and/or requiring sealing work.

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The Drawings were prepared and this Specification written on the basis of using the products of Pecora Corporation, Harleysville, Pennsylvania. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.

2.02 **MATERIALS**

A. Exterior Sealant:

Compound used throughout job; either:

1. "Synthacalk GC-9", one-part polysulfide base synthetic rubber sealant; ASTM-C920, Type S, ANSI-A-116.1.
2. "DYNATROL I" one-part polyurethane sealant; ASTM-C920, Type S.

B. Interior Sealant:

Compound used throughout job; either:

1. "BC-158" one-part butyl rubber sealant; FS TT-S-001657, Type 1.
2. "AC-20" one-part acrylic latex caulk; ASTM C834-76.

C. Interior Mildew-Resistant Silicone Sealant: (Restrooms, Kitchen, and Food Service Areas)

One part mildew-resistant silicone sealant formulated with fungicide, intended for sealing joints with substrates subject to in-service exposure to conditions of high humidity and temperature extremes.

1. "SCS 1702 Sanitary" manufactured by General Electric Co.
2. "863" manufactured by Pecora Corp.

D. Fire-Resistant Joint Sealant: (if required by building codes or authorities)

One part fire-stopping sealant system formulated for use in through-penetration sealing of openings, cables, conduit, pipes, and penetrations through walls and floors.

1. "3M Fire Barrier Caulk CP-25" by Electrical Products Division, 3M Company.
2. "Dow Corning Fire-Stop" by Dow Corning Corporation.

- E. Primer:
Non-staining type, recommended by sealant manufacturer, to suit application.
- F. Joint Cleaner:
Non-corrosive and non-staining; recommended by sealant manufacturer; compatible with joint forming materials.
- G. Joint Backing:
Where required, non-absorbent and non-staining foam rod, compatible with sealant used. Diameter required to form friction surface at sides of open joint.
- H. Bond Breaker:
Pressure sensitive tape recommended by sealant manufacturer to suit application.
- I. Masking Tape:
FS UU-T-106.

2.03 COLORS

- A. To be selected by Owner

PART III - EXECUTION

3.01 GENERAL

- A. Do not use interior sealant for exterior conditions. Gun apply compound with nozzle of proper size to fit width of joint indicated; force sealant into joint with sufficient pressure to expel air and fill groove solidly.

3.02 INSPECTION

- A. Verify that *surfaces and joint openings are ready to receive work and field measurements are as shown on Drawings and recommended by sealant manufacturer.* Beginning of installation means installer accepts existing conditions as appropriate for work.

3.03 CONDITIONS

- A. Exterior: Apply sealants when temperature is between 40 and 100 degrees F.
- B. Interior:
Do not install solvent curing sealants in enclosed building spaces. Maintain temperature and humidity recommended by sealant manufacturer during and after installation.

3.04 PREPARATION

- A. Perform in accord with ASTM C804 for solvent release and C790 for latex base sealants. Remove loose materials and foreign matter which might impair adhesion of sealant. Clean and prime joints in accord with manufacturer's instructions. Verify that joint backing and release tapes are *compatible with sealant.* Protect elements surrounding work of this Section from damage or disfiguration.

3.05 FIELD SAMPLE

- A. Construct field sample joints, 4 feet long, illustrating sealant type, color, and tooled surface. Locate where directed. Accepted sample may remain as part of the Work.

3.06 **INSTALLATION**

- A. **General:**
Conform to SWI requirements for installation and with manufacturer's instructions. Measure joint dimensions and size materials to achieve required width/depth ratios.
- B. **Joint Backing:** Install to achieve neck dimension no greater than 1/3 joint width.
- C. **Bond Breaker:** Install where joint backing is not used.
- D. **Masking Tape:**
Place on finish surface on one or both sides of joint cavity to protect adjacent finish surfaces from compound smears. Remove within 10 minutes after joint has been filled and tooled.
- E. **Primer:**
Use in accord with manufacturer's instructions. Test for staining on samples of actual surfaces to be sealed prior to application.
- F. **Sealants:**
Use fresh compounds from previously unopened containers bearing manufacturer's seal. Install sealant from bottom of joint upward and outward, using sufficient force to fill joint; free of air pockets, foreign matter, ridges and sags. Draw nozzle of applicator device across joint during installation to leave flush surface.

3.07 **FINISHING**

- A. Tool joints slightly concave unless shown otherwise on the Drawings. When tooling white or light color sealant, use dry or water wet tool.

3.08 **CLEANING AND REPAIRING**

- A. Remove masking tapes and clean adjacent soiled surfaces. Repair or replace defaced or disfigured finishes caused by work of this Section.

3.09 **PROTECTION OF COMPLETED WORK**

- A. Protect sealants until cured.

3.10 **CLEAN-UP**

- A. Upon completion of work of this Section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Foam sealant

1.02 RELATED SECTIONS

- A. Sealants and Caulking: SECTION 07920

1.03 QUALITY STANDARDS

- A. All materials shall be furnished by one manufacturer only.

1.04 SUBMITTALS

- A. Submit samples per SUBMITTALS Section provide, 12 inch, sample of material to be supplied for acceptance.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and this specification written on the basis of using the products of Illbruck, Minneapolis, MN. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.

2.02 MATERIALS

- A. Foam Sealant:
"Willseal" self-expanding polyurethane foam tape, one side acrylic pressure-sensitive, No. 1504, 1/8" " x 1" wide.

PART III - EXECUTION

3.01 DELIVERY AND STORAGE

Delivery materials in original unopened packages and store in enclosed shelter providing protection from damage and exposure to the elements. Remove damaged or deteriorated materials from premises.

3.02 INSTALLATION

Place foam sealant tape on top of dry, clean concrete slab with pressure-sensitive side down for all exterior sill plates (wood or metal) only. Locate 1 inch from edge of exterior plate (edge of slab). Placement shall be continuous with no gaps. Place only the amount of tape that will be covered that day. Remove and replace any tape left exposed.

3.03 CLEAN-UP

Upon completion of work of this Section, remove related debris from premises.

END OF SECTION

SECTION 08112
STANDARD STEEL DOORS

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Heavy duty steel doors
- B. Extra heavy duty steel doors
- C. Hardware preparation

1.02 RELATED SECTIONS

- A. Standard Steel Frames: SECTION 08113
- B. Finish Hardware: SECTION 08710
- C. Painting: SECTION 09900

1.03 QUALITY ASSURANCE

- A. Conform to requirements of SD1-100
- B. Doors noted to have a specific hourly label shall be Underwriter's Laboratories, Inc., labeled construction and shall bear the UL label.

1.04 REFERENCE STANDARDS

- A. Steel Door Institute (SDI)
- B. American Society for Testing Materials (ASTM)
- C. Door Hardware Institute (DHI)
- D. American National Standards Institute (ANSI)

1.05 SUBMITTALS

- A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Show elevations of each door type, door construction details and methods of assembling sections, hardware locations, reinforcement, opening sizes, dimensions, and shapes of materials, and finish requirements. Use SDI-111D, "Recommended Door, Frame and Hardware Schedule for Standard Steel Doors and Frames," and SDI-106, "Recommended Standard Door Type Nomenclature" as guide in development. Include manufacturer's installation instructions, if other than standard procedure. Detail to serve as installation drawings. Owner's acceptance is required prior to start of fabrication and/or shipment.
- B. Manufacturer shall furnish a certificate to the Owner evidencing that materials delivered meet the labeled and/or fire resistive construction requirements.

1.06 COORDINATION

- A. Coordinate frame and door installation with wall construction for anchor placement and tolerances. Coordinate installation of glass and glazing, where and if shown on the Drawings.

PART II - PRODUCTS

2.01 DOOR TYPES

- A. Heavy Duty Doors (Interior Use) SDI-Grade II, Model 4, seamless-composite construction.
- B. Extra Heavy Duty Doors (Exterior Use) SDI-Grade III, Model 4, seamless-composite construction.

2.03 DOOR MATERIALS

- A. Face Sheets
Cold rolled steel, with stretcher level degree of flatness; ASTM A366; doors for exterior openings shall be galvanized using a hot-dip coating of zinc; minimum gauges:
 - 1. Heavy duty doors: 18 gauge
 - 2. Extra duty doors: 16 gauge
- C. Cores:
 - 1. Flush Doors: Rigid polystyrene foam slab bonded to face sheets by thermosetting adhesive.
 - 2. Hardware Reinforcing Gauges: Minimum recommended by SDI-100.

2.04 PRIME PAINTING

- A. Thoroughly clean, phosphate treat and prime surfaces with rust inhibiting primer; either air dried or baked on; ANSI A224.1.

2.05 FABRICATION

- A. Fabricate with hardware reinforcement plates welded in place. Close top edge of exterior doors flush with inverted steel channel closure. Seal joints watertight.

PART III - EXECUTION

3.01 STORAGE

- A. Store doors at building site under cover. Place units on at least 4 inch wood sills or on floors in manner that will prevent rust and damage. Do not use non-vented plastic or canvas shelters. Remove wet cartons immediately. Provide 1/4 inch space between doors to promote air circulation.

3.02 INSTALLATION

- A. Install in accord with DHI.
- B. Install doors in accord with SDI.

3.03 PROTECTION OF COMPLETED WORK

- A. Protect doors from damage of any kind, replace damaged doors with new doors at no additional cost to Owner.

3.04 CLEAN-UP

- A. Upon completion of the work of this Section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Welded frames
- B. Frame anchors
- C. Hardware Preparation

1.02 RELATED SECTIONS

- A. Standard Steel Doors: SECTION 08112
- B. Finish Hardware: SECTION 08710
- C. Painting: SECTION 09900

1.03 QUALITY ASSURANCE

- A. Conform to requirements of SD1-100
- B. Frames noted to have a specific hourly label shall be Underwriter's Laboratories, Inc., labeled construction and shall bear the required UL label.

1.04 REFERENCE STANDARDS

- A. Steel Door Institute (SDI)
- B. American Society for Testing Materials (ASTM)
- C. Door Hardware Institute (DHI)
- D. American National Standards Institute (ANSI)

1.05 SUBMITTALS

- A. Submit Shop Drawings per SUBMITTALS Section; Base on details shown on the Drawings. Show elevations of each frame type, frame construction details and methods of assembling sections, hardware locations, dimensions, and shapes of materials, and finish requirements. Use SDI-111D, "Recommended Door, Frame and Hardware Schedule for Standard Steel Doors and Frames," and SDI-111A, "Recommended Steel Door and Frame Details" as guide in development. Include manufacturer's installation instructions, if other than standard procedure. Detail to serve as installation drawings. Owner's acceptance is required prior to start of fabrication and/or shipment.
- B. Manufacturer shall furnish a certificate to the Owner evidencing that materials delivered meet the labeled and/or fire resistive construction requirements.

1.06 COORDINATION

- A. Coordinate frame and door installation with wall construction for anchor placement and tolerances.

PART II - PRODUCTS

2.01 FRAME TYPE

- A. General:
Pressed steel combination buck and trim type frames for doors, transoms, sidelites, mullions, interior glazed panels and other openings, where indicated.
- B. Welded Frames:
Corners secured either by internal welding of faces or by welded splice plates. Secure jambs and header joints at rabbet either by tack welding on inside of profile or by mechanical interlock.

2.02 MATERIALS

- A. Frames:
Cold rolled galvanized steel, using a hot-dip coating of zinc, with stretcher level degree of flatness; ASTM A366; 16 gauge; in depth and profiles indicated, furnished with 2 inch face and 3/8 inch studs. Provide UL ratings required.
- B. Anchors:
Gauge and/or diameter and type recommended by SDI-100, and UL anchors as required.
- C. Hardware Reinforcing: Minimum recommended by SDI-100.
- D. Silencers: Resilient Rubber

2.03 PRIME PAINTING

- A. Thoroughly clean, phosphate treat and prime surfaces with rust inhibiting primer; either air dried or baked on; ANSI A224.1.

2.04 FABRICATION

- A. Fabricate with hardware reinforcement plates welded in place. Provide mortar guard boxes. Reinforce frames wider than 48 inches with roll formed steel channels fitted tightly into frame head, flush with top. Prepare frame for silencers. Provide three single rubber silencers for single doors and mullions of double doors on strike side, and two single silencers on frame head at double doors without mullions.

PART III - EXECUTION

3.01 STORAGE

- A. Store frames at building site under cover. Place units on at least 4 inch wood sills or on floors in manner that will prevent rust and damage. Do not use non-vented plastic or canvas shelters. Remove wet cartons immediately.

3.02 INSTALLATION

- A. Install in accord with SDI-105.
- B. All exterior door frames to be grouted solid.

3.03 **PROTECTION OF COMPLETED WORK**

- A. Protect frames from damage of any kind, replace damaged frames with new frames at no additional cost to Owner.

3.04 **CLEAN-UP**

- A. Upon completion of the work of this Section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SCOPE OF WORK

- A. Plastic faced flush solid core wood doors
- B. Hardware for doors

1.02 RELATED SECTIONS

- A. Finish Carpentry: SECTION 06200
- B. Standard Steel Frames: SECTION 08113
- C. Finish Hardware: SECTION 08710

1.03 SUBMITTALS

- A. General: Submit per SUBMITTALS Section.
- B. Shop Drawings:
Show configuration and dimensions of door components, hardware types and locations and finishes. Include product data and manufacturer's installation instructions. Detail to serve as installation drawings. Owner's acceptance is required prior to start of fabrication and/or shipment.
- C. Operation and Maintenance Data:
Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance.

1.04 MAINTENANCE MATERIALS

- A. Provide special wrenches and tools applicable to each different or special hardware component along with maintenance tools and accessories supplied by hardware component manufacturer.

1.05 COORDINATION OF WORK

- A. After acceptance of Shop Drawings, furnish Contractor with templates required for preparation of frames at place of manufacture.

1.06 WARRANTY

- A. Manufacturer's standard one year warranty.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The Drawings were prepared and this Specification written on the basis of using the products of Eliason Corporation, Easy Swing Door Division, Kalamazoo, Michigan. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.

2.02 **DOOR TYPE**

- A. Easy Swing, Model SCP8, medium weight, dual swing doors.

2.03 **MATERIALS**

- A. Core: Manufacturer's standard solid core
- B. Face Finish: Decorative high impact plastic laminate; color, Wood Grain.
- C. Edge Caps and Base Plates: 18 gage; 304 #4 stainless steel
- D. Hardware: Manufacturer's standard
- E. Windows: 3/16 inch thick clear acrylic plastic in black rubber molding.

PART III - EXECUTION

3.01 **DELIVERY STORAGE AND HANDLING**

- A. Scheduling:
Deliver to job site at least two weeks prior to date scheduled for installation, but not before building is enclosed and proper conditions of temperature and humidity are being maintained.
- B. Packaging:
Crate or package doors and hardware to protect them during transit, delivery and storage, each package marked or tagged with corresponding door number as it appears on Door Schedule.
- C. Storage:
Store doors and hardware at building site under cover. Place doors on at least 4 inch wood sills or on floors in manner that will prevent damage. Do not use non-vented plastic or canvas shelters. Remove wet cartons immediately. Provide 1/4 inch space between doors to promote air circulation.

3.02 **INSTALLATION**

- A. Install in accord with manufacturer's instructions. Conform to AWI requirements for fit tolerances.

3.03 **ADJUSTING**

- A. Adjust for smooth and balanced door movement.

END OF SECTION

SECTION 08611
ALUMINUM-CLAD WOOD FIXED FRAME WINDOWS

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Factory-assembled aluminum-clad wood windows, glass and glazing.
- B. Anchorages, attachments and shims.

1.02 RELATED SECTIONS

- A. Finish Carpentry: SECTION 06200

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM):
ASTM E 283 - Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors.
ASTM E 330 - Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.
ASTM E 547 - Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential.
- B. National Wood Window and Door Association (NWWDA):
NWWDA I.S.-2 - Industry Standard for Wood Windows.
NWWDA I.S.-4 - Industry Standard for Water-Repellent Preservative Treatment for Millwork.

1.04 PERFORMANCE REQUIREMENTS

- A. Window units shall meet Grade 60 specifications in accordance with NWWDA I.S.-2.
- B. Window unit air leakage, when tested in accordance with ASTM E 283, at 6.24 psf (50 mph), must be 0.005 cfm/sq.ft. or less.
- C. No water penetration when tested in accordance with ASTM E 547 under static pressure of 12 psf (70 mph) after 3 cycles of 5 minutes each, with water applied at a rate of 5 gallons per hour per square foot.
- D. Window assembly shall withstand positive and negative wind loads acting normal to the plane of the window, in accordance with applicable code. Structural tests shall be conducted in accordance with ASTM E 330.

1.05 SUBMITTALS

- A. Submit shop drawings, samples, and product data in accordance with Section 01300. Indicate pertinent dimensioning, general construction, component connections and locations, anchorage methods and locations, and installation details.

1.06 MOCK-UP/SAMPLE INSTALLATION

- A. Provide sample installation for field testing unit performance requirements and to determine acceptability of unit installation methods. Approved sample installation will represent minimum quality for the Work. Sample installation can be used within the Work.

a. DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to job site in manufacturer's or distributor's packaging undamaged, complete with installation instructions.

- B. Store off ground, under cover, protected from weather and construction activities.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The Drawings were prepared and this Specification written on the basis of using the products and the specifications of Pella Corporation, Pella, Iowa. Account Representative: David Martin, (515)628-6478. Although a national account has been established with this vendor, it is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.

2.02 MATERIALS

- A. Window Unit: Pella® aluminum-clad wood fixed-frame windows as manufactured by Pella® Corporation.
- B. Frame: Select softwood, water-repellent, preservative-treated in accordance with NWWDA I.S.-4. Interior exposed surfaces clear Western Pine; exterior surfaces clad with aluminum. Components assembled with screws and concealed corner locks. Overall frame depth: 5 in. (127 mm).
- C. Interior Muntins: Regular profile removable solid wood bars, type 8, steel-pinned at joints and fitted to glass stops with steel clips and tacks. Surfaces unfinished, ready for site finishing.

2.03 TOLERANCES

- A. Windows to accommodate the following opening tolerances:
 - 1. Vertical dimensions between high and low points: plus 1/4 inch or minus 0-in.
 - 2. Width dimensions: plus 1/4 inch or minus 0-in.
 - 3. Building columns or masonry openings: plus or minus 1/4 inch from plumb.

2.04 FINISH

- A. Pella EnduraClad™ Exterior Finish System: Exterior extruded aluminum surfaces shall be finished with the following multi-stage system:
 - 1. Clean and etch aluminum surface of oxides.
 - 2. Pre-treat with chrome phosphate conversion coating.
 - 3. Pre-treat with chromic acid sealer/rinse.
 - 4. Prime with a baked-on modified polyester primer.
 - 5. Top coat with a baked-on polyester enamel. Color Dark Brown.
- B. Interior Finish: Unfinished, ready for site finishing.

PART III - EXECUTION

3.01 INSTALLATION

- A. Install windows in accordance with manufacturer's recommendations and approved shop drawings to achieve weathertight and freely operating installation.
- B. Maintain alignment with adjacent work. Secure assembly to framed openings, plumb and square, without distortion.

- C. Place insulation in ship spaces around unit perimeter to maintain continuity of building thermal barrier.

3.02 **FIELD CLEANING**

- A. Remove labels and visible markings.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Hardware shown on the Hardware Schedule on the Drawings.

1.02 RELATED SECTIONS

- A. Finish Carpentry: SECTION 06200
- B. Weatherstripping and Seals: SECTION 08730
- C. Toilet Partition Hardware: SECTION 10810

1.03 QUALITY ASSURANCE

- A. Manufacturers:
Companies specializing in manufacturing door hardware with minimum three years experience.
- B. Hardware Supplier:
Company specializing in supplying door hardware with three years documented experience approved by manufacturer. The Builder's Hardware is available as a complete package from:

Hidell Hardware Company, Inc.
4507 Travis Street
Dallas, Texas 75205
Attn: Mr. James A. Dorsey
214/528-0331

- C. All exterior locksets, latchsets and deadbolts shall be mortise style conforming to ANSI 156-13, Series 1000, Grade 2.
- D. All interior locksets and latchsets shall be cylindrical type conforming to ANSI 156-2, Series 4000, Grade 1.

1.04 REGULATORY AGENCY REQUIREMENTS

- A. Conform to applicable codes for requirements applicable to fire rated doors and frames.
- B. All hardware items shall comply with ANSI specifications and the Americans with Disabilities Act.

1.05 REFERENCE STANDARDS

- A. American National Standards Institute (ANSI)
- B. National Fire Protection Association (NFPA)
- C. Door Hardware Institute (DHI)
- D. Americans with Disabilities Act (ADA)

1.06 **SUBMITTALS**

- A. **General:** Submit per SUBMITTALS Section.
- B. **Final Hardware Schedule:** Six copies of a complete FINAL HARDWARE SCHEDULE, indicating locations, quantities, types, numbers and/or sizes, functions and finishes for each item; conform to Hardware Schedule on the Drawings. Owner's acceptance is required prior to start of fabrication and/or shipment. Acceptance does not relieve Contractor of obligation to furnish hardware required to complete the Work.
- C. **Product Data:**
 - 1. Provide product data on hardware. Owner's acceptance is required prior to start of fabrication and/or shipment.
 - 2. Submit product data indicating conformance with ADA specifications.
- D. **Samples:** One sample of each type; illustrating style, color, and finish. Samples may be incorporated into the Work. Owner's acceptance is required prior to start of fabrication and/or shipment.
- E. **Operation and Maintenance Data:** Include data on operating hardware, lubrication requirements, and inspection procedures related to preventative maintenance. Data shall be submitted as part of contract closeout.

1.07 **MAINTENANCE MATERIALS**

- A. Provide special wrenches and tools applicable to each different or special hardware component along with maintenance tools and accessories supplied by hardware component manufacturer. Materials shall be submitted as part of contract closeout.

1.08 **COORDINATION OF WORK**

- A. After acceptance of the FINAL HARDWARE SCHEDULE, hardware supplier furnish Contractor with copies of schedule with templates required for preparation of doors and frames at place of manufacture.

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The Drawings were prepared and this Specification written on the basis of using the products of specific manufacturers. Substitutions will not be allowed.

2.02 **MATERIALS**

- A. **Complete Sets:** As scheduled in the Hardware Schedule on the Drawings. All doors required to be rated shall be installed with UL rated hardware UL label.
- B. **Other Items:** Quality standards equal or superior to product of other manufacturers in the Hardware Schedule.
- C. **Finishes:** As scheduled in the Hardware Schedule on the Drawings.

2.03 **KEYING**

- A. As shown on the Hardware Schedule on the Drawings.

PART III - EXECUTION

3.01 **PACKAGING**

- A. Package items separately; complete with trim, screws, bolts, nuts, washers, etc. Label and identify package with door opening number and corresponding hardware set number to match Door Schedule on the Drawings.

3.02 **DELIVERY AND STORAGE**

- A. General: Protect hardware from theft by cataloging and storing in secure area.
- B. Keys: Deliver keys to Owner by security shipment direct from hardware supplier.

3.03 **INSPECTION**

- A. Verify that doors and frames are ready to receive work and dimensions are as indicated on shop drawings. Verify that power supply is available to power operated devices (if shown on the Drawings). Beginning of installation means acceptance of existing conditions.

3.04 **INSTALLATION**

- A. General:
Install hardware in accord with manufacturer's instructions and requirements of ANSI/NFPA 80 and DHI. Use templates provided by hardware item manufacturer. Conform to ANSI A117.1 and ADA for positioning requirements for the handicapped.

3.05 **CLEAN-UP**

- A. Upon completion of work of this Section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Weatherstripping Exterior Doors: Head and jamb weatherstrips

1.02 RELATED SECTIONS

- A. Finish Carpentry: SECTION 06200
B. Standard Steel Frames: SECTION 08113
C. Finish Hardware: SECTION 08710

1.03 SUBMITTALS

- A. Submit product literature per SUBMITTALS Section, to Owner for acceptance prior to shipping.

1.04 SCHEDULING

- A. *Installation of materials in the section shall be started only after finish of doors and frames related to the items herein specified is complete.*

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and this specification written on the basis of using the products and the specifications of the PEMKO Manufacturing Company, Ventura, California. It is not the intent to limit competitive bidding. Products with equal characteristics are acceptable under the *conditions of these specifications.*

2.02 MATERIALS

- A. Jambs and Head: Pemko Q102D, kerf in weatherstrip, soft cell foam, at all exterior wood doors. Pemko PK55D, pressure sensitive door gasketing at all other locations.
B. Meeting Stiles: Pemko 313DN vinyl inset astragal

PART III - EXECUTION

3.01 PACKAGING AND DELIVERY

- A. Package weatherstripping and seals to protect them during transit, delivery and storage. Mark or tag each package with corresponding door number as it appears on door schedule.

3.02 PROTECTION OF MATERIALS

- A. Protect all materials from damage; any material which is scarred, dented or otherwise defaced shall be removed and replaced with new materials.

3.03 **INSTALLATION**

- A. All the work of this section shall be installed as part of FINISH CARPENTRY. Install in accord with manufacturer's instructions. Fit tightly at corners to maintain continuity around periphery of doors.

3.04 **CLEAN-UP**

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Installation of glass in prepared openings.
- B. Protection
- C. Cleaning

1.02 RELATED SECTIONS

- A. Steel Doors: SECTION 08112
- B. Aluminum Clad Wood Fixed Windows: SECTION 08611
- C. Glass: SECTION 08811

1.03 REFERENCE PUBLICATION AND STANDARDS

- A. Flat Glass Jobbers Association, "Glazing Manual" latest edition (FGJA). Glazing subcontractor shall determine and be responsible for actual system(s) and materials to be used in the work of this section. In all instances, the FGJA "Glazing Manual" shall govern details and general conditions of systems to be considered for use intended on the drawings.

1.04 SUBMITTALS

- A. Submit Shop Drawings per SUBMITTALS Section, of glazing system(s) proposed. Owner's acceptance is required prior to start of glazing.

1.05 SCHEDULING

- A. Schedule the work of this section to coincide with delivery of glass to be installed as part of the work of this section.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and portions of this specification written on the basis of using the products of Pecora Corporation, Harleysville, Pennsylvania. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 BASIC MATERIALS

- A. The following list of materials is submitted to establish minimum quality standards for the work of this section. It is not intended to dictate or define systems to be used:

1. Glazing Compounds:

- a. "Synthacalk GC-9" one part polysulfide base synthetic rubber sealant
- b. "862" one part architectural silicone sealant
- c. "60+Unicrylic" one part acrylic polymeric sealant

2. Glazing Tapes "Extru-Seal" tapes, pre-shimmed, tapered, string, etc.
3. Primer: As recommended by compound and/or tape manufacturer for use intended.
4. Setting Blocks and Spacer Shims: Type and size recommended by FGJA for use intended.

PART III - EXECUTION

3.01 AMBIENT CONDITIONS

- A. Glazing shall not be commenced until outdoor temperature is above 40° F., on a rising thermometer, and when ventilation conditions are such within building as to prevent condensation of moisture on units during glazing.

3.02 PREPARATION

- A. Clean all surfaces of all glazing units and materials to which glazing compound and/or tapes will be applied and prime (if required) as recommended by glazing compound and/or tape manufacturer.

3.03 INSTALLATION (GLAZING)

- A. Install all glazing units in complete accord with shop drawings and the FGJA "Glazing Manual" recommendations, including but not limited to:
 1. Handling of glazing units
 2. Application of compounds, tapes, etc.
 3. Installation of setting blocks and spacer shims
 4. Final sealing

3.05 CLEANING

- A. Clean all glazing units and remove all labels, protection markings, etc. prior to acceptance of building by Owner. Replace all cracked, broken, and improperly set glazing units at time of cleaning without additional cost to the Owner.

3.06 PROTECTION

- A. Clearly mark all installed transparent glazing units by means of tape "X" or other suitable means to protect persons and materials. System used shall comply with any or all governing codes, ordinances, regulations, etc.

3.07 CLEAN-UP

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Plate and Float Glass
- B. Tempered Glass
- C. Insulating Glass
- D. Wire Glass

1.02 RELATED SECTIONS

- A. Steel Doors: SECTION 08112
- B. Aluminum Clad Wood Fixed Windows: SECTION 08611
- C. Glazing: SECTION 08800

1.03 INTENT (SAFETY OF PERSONS)

- A. It shall be the responsibility of the glazing subcontractor to comply with all safety laws, ordinances and regulations, etc. which control type of glass related to safety of persons. The drawings and specifications attempt to comply with all such laws, etc., but in case of failure to comply, the most restrictive requirement shall govern the work of this section.
- B. Design Criteria: Glass shall conform to Fed. Spec. DD-G-001 403 and tested to pass IGCC, CBA, ASTM E-774-83.

1.04 COORDINATION OF WORK

- A. Coordinate with the work of glazing subcontractor(s).

1.05 SUBMITTALS

- A. Submit samples per SUBMITTALS Section. Submit 6 inch square samples of all glass and glass units.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and this specification written on the basis of using the products of PPG Industries, Inc., Pittsburgh, Pennsylvania unless noted otherwise. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 MATERIALS

- A. General: GGlass sizes shown are approximate. Sizes and proper edge clearances shall be determined by measuring the actual opening to receive glass. Labels shall not be removed until final approval is obtained.

- B. Float Glass: 1/4-inch thick, clear float (plate) glass
- C. Tempered Glass: 1/4-inch thick, clear "Herculite" tempered safety glass
- D. Insulating Glass: 1" Argon-filled, multi-layer low E coated dual-seal insulating glass, bronze tint.
- E. Mirror Glass:
1/4-inch thick quality polished plate glass, hermetically sealed with a uniform coating of electrolytic copper plating; FS #DDM-411.
- F. Wire Glass:
Hordis Brothers, Inc., Pennsauken, New Jersey; 1/4 inch thick, "Misco" polished, clear "Mississippi" wire glass (diamond mesh).

PART III - EXECUTION

3.01 PROTECTION OF MATERIALS

- A. Protect glass from damage of any kind, during packaging, transporting and storage. Do not move partially unpacked cases of glass, as this is apt to cause glass damage or breakage.

3.02 GLAZING

- A. Not part of the work of this section.

3.03 CLEAN-UP

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Gypsum wallboard panels
- B. Metal framing for walls and ceilings (where noted on drawings)
- C. Accessories
- D. Joint treatment

1.02 RELATED SECTIONS

- A. Rough Carpentry: SECTION 06100
- B. Non-gypsum ceiling systems
- C. Finishes applied to gypsum wallboard
- D. Batt and Blanket Insulation: SECTION 07211
- E. Painting: SECTION 09900

1.03 INTENT

- A. Materials shall be furnished by one manufacturer only.

1.05 SUBMITTALS

- A. Certificate: Furnish certificate evidencing that material meets or exceeds specification and fire rating requirement.
- B. Metal Support Standard: ASTM C754.
- C. Metal Stud Standard: Fed Spec QQS-698 and QQS-775d, Class D.
- D. Gypsum Board Standard: GA 216 by Gypsum Association.

1.06 SUBCONTRACTOR'S QUALIFICATIONS

- A. Subcontractor shall have a minimum of five years experience in drywall work and shall be approved by materials manufacturer as a qualified applicator.

1.07 REFERENCE STANDARDS

- A. American Society for Testing Materials (ASTM)
- B. Underwriters Laboratories (UL)
- C. Federal Specifications (FS)

1.08 **COORDINATION**

- A. Build openings and chases for heating, plumbing and electrical ducts, pipes and conduits into partitions and ceilings. Consult other trades in advance and make provisions for their work to avoid cutting and patching.

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The drawings were prepared and this specification written on the basis of using the products of United States Gypsum Company, Chicago, Illinois. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 **BASIC MATERIALS**

A. **Gypsum Panels:**

1. **General:** FS SS-L-30D and ASTM C-36.
2. **Face Boards:**
 - a. General Use: "Sheetrock" "Firecode" 5/8 inches thick, 48 inches wide, lengths as required.
 - b. All Wet Areas: "Sheetrock" "Firecode" "W/R", 5/8 inches thick, 48 inches wide, lengths as required.

B. **Metal Framing (where noted on drawings):**

1. Runners:
Galvanized steel, 16 gauge minimum as required by manufacturer and codes, size as shown on drawings.
2. Studs:
Galvanized steel, 16 gauge minimum, as required by manufacturer and codes, size as shown on drawings.
3. Furring Channels:
 - a. C.R. Channel - 1-1/2 inch 16 gauge steel channels with black asphalt on painted finish.
 - b. Furring Channel - 7/8 x 1-1/4 inch galvanized steel hat-shaped sections
 - c. Z-Furring Channels - 1-1/2 inch 24 gauge galvanized steel.

- C. **Fasteners:** Self drilling and tapping screws, USG 41-10 screws Type "S" or as required by manufacturer and/or code for system used.

2.03 **MISCELLANEOUS MATERIALS**

- A. **Joint Treatment:** ASTM C475-64 and FS SS-J-570B, Type I for compounds, Type II for tape.

1. Taping and Finishing Compound: "Durabond" of contractor's choice
2. Tape: "Perf-A-Tape" joint tape

- B. **Hanger and/or Tie Wire:** As required by manufacturer and/or code for system used, 8 gauge galvanized wire minimum.

- C. **Angles, Channels, Grommets, Etc.:** As required by manufacturer and/or code for system used.

- D. Drywall Adhesives: "Durabond 210 or 90"
- E. "W/R" Panel Sealant: "Sheetrock" "W/R" sealant.

2.04 ACCESSORIES

- A. Corner Beads: "Durabead," No. 104, galvanized
- B. Metal Trim (casing beads): No. 200B, galvanized

2.05 PRIMER (PAINTED SURFACES)

- A. USG Sheetrock "First Coat" flat latex basecoat paint

2.06 DOOR FRAME GROUT

- A. Durabond 90 Compound

PART III - EXECUTION

3.01 GENERAL

- A. Contractor shall select and be responsible for specific systems used related to attachment, fastener type (length and spacing), etc. Requirements of governing laws, ordinances, codes and regulations, along with system manufacturer's specifications govern selection.

3.02 DELIVERY AND STORAGE

- A. Deliver materials in original unopened packages and store in enclosed shelter providing protection from damage and exposure to the elements. Remove damaged or deteriorated materials from premises.

3.03 TEMPERATURE CONDITIONS

- A. During gypsum panel erection and joint finishing, maintain temperatures in the building within range of 55 degrees to 70 degrees F.

3.04 METAL FRAMING ERECTION

- A. Walls:
 - 1. Runners
Layout accurately and attach at floor and structural elements with fasteners; 2 inches from each end and spaced 24 inches oc.
 - 2. Studs
16 inches oc unless otherwise noted on drawings, fasten into floor and ceiling runners and at door and window frames, partition intersections and corners. Where required, splice with minimum 18 inch lap and attach flanges with 2 fasteners in each flange.
 - 3. Blocking
Provide and install 2X fire retardant wood blocking, floor to ceiling, at all stud wall areas to receive wall mounted accessories.

B. Metal Framing Erection (Ceilings)

1. Small Areas:

Attach runners at ceiling height, through gypsum panels, to each partition stud. Insert steel studs in runner and attach each end. Install stud cross-bracing over stud framing, space 48 inches oc and attach to each framing stud. At openings that interrupt ceiling, install additional cross reinforcing to maintain structural integrity of framing.

2. Large Areas:

Install hanger wires, carrying members, furring channels and reinforcing at openings, in accord with systems manufacturer's specifications.

3.05 PANEL ERECTION

A. Face Boards:

1. Partitions

a. Single Layer:

Apply face out; long dimension vertical, with joints over studs. Joints on opposite sides of partition on different studs. Attach with nails spaced as required for system used (rated or non-rated assemblies).

b. Double Layer:

Same as for single layer, except face layer joints offset from base layer joints.

2. Ceilings

Apply with long dimension at right angles to framing members and fasten as required for system used. Abutting ends or edge joints over framing; fit neatly and accurately with end joints staggered. Support around cut-outs and openings.

3. W/R Sealing

Apply sealant to cut edges and fastener heads.

3.06 ACCESSORIES INSTALLATION

A. Corner Beads: Install on external corners, with fasteners spaced 9 inches oc.

B. Metal Trim: Install with fasteners spaced 9 inches oc, where shown on drawings and where wallboard surfaces meet dissimilar materials.

3.07 FINISH TREATMENT

A. General: Treat joints, interior angles, fastener depressions, and accessories. Treat joints of surfaces to receive reinforced plastic panels.

B. Joints:

1. Embedding Tape

Apply compound in a thin uniform layer to all joints and angles. Immediately apply tape centered over joint and seat into compound. Follow immediately with thin skim coat over embed tape, but not to function as a second coat. Fold and embed tape in interior angles to provide true angles. Sand smooth using care to avoid scarring gypsum.

2. Second Coat

Apply over embedding coat, filling panel taper flush with surface; cover tape and feather out slightly beyond first coat. On joints with no taper, cover tape and feather out at least 4 inches on either side of tape. Sand smooth using care to avoid scarring gypsum.

3. Finish Coat

Spread evenly over and extend slightly beyond second coat and feather to smooth uniform finish. Over tapered edges, do not allow finished joint to protrude beyond plane of surface. Apply finish coat to cover compound at tapered angles; provide true angles. Sand between coats and following finish coat to provide flat smooth surface, using care to avoid scarring gypsum.

C. Fasteners: Apply compound to depressions as first coat. Follow with minimum of 2 additional coats, leaving depressions smooth and level with plane of surface.

D. Accessories:

1. First Coat

Apply compound and feather out from ground to plane of surface.

2. Second Coat

Extend compound slightly beyond first coat onto face of panel. Compound must be thoroughly dry prior to application of finish coat.

3. Finish Coat

Extend compound slightly beyond second coat and feather from ground to plane of surface. Sand finish to provide flat smooth surface.

E. Priming: Roller apply base coat to produce a smooth uniform surface.

3.08 CLEAN-UP

A. Upon completion of work of this Section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Ceramic tile
- B. Setting adhesives and grout

1.02 RELATED SECTIONS

- A. Cast-In-Place Concrete: SECTION 03300
- B. Tile Backer Board: SECTION 09390
- C. Gypsum Board Systems: SECTION 09260

1.03 REFERENCE PUBLICATIONS

- A. Tile Council of America (TCA): Most Current "Handbook for Ceramic Tile Installation"
- B. American National Standards Institute (ANSI)

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and this Specification written on the basis of using the products of Dal-Tile, Richardson, Texas, Jim Lane or Fred Davis, (972) 690-5724. Although a national account has been established with this vendor, it is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.

2.02 CERTIFICATION

- A. Submit master grade certificates for each delivery of each tile type signed by manufacturer and installer.

2.03 MATERIALS

- A. Ceramic Tile: Refer to Finish Schedule on Drawings for manufacturer, color, size, pattern and grout color. Provide necessary caps, stops, coves, returns, trimmers and other shapes as required for a complete installation.
- B. Setting Adhesives:
 - 1. Countertops: "Epoxy Mortar" conforming to ANSI A118.3
 - 2. Walls and Base: Organic adhesive, as recommended by TCA for the particular conditions in which the tile is being set.
- C. Interior Grout: Latapoxy SP-100 Stainless Epoxy grout conforming to ANSI A118.6; color (pigment additive) as shown on drawings.

PART III - EXECUTION

3.01 DELIVERY

- A. Deliver materials to the job site in the original containers with the manufacturer's identification on each package.

3.02 INSPECTION

- A. Examine all surfaces receiving ceramic tile for any defects that would impair installation and if any are found, make such corrections. Contractor shall apply leveling coat of dry-set mortar over wall and floor surfaces which vary more than 1/8" in 10 feet.
- B. Installation constitutes acceptance of the substrate.

3.03 INSTALLATION

- A. Standard practice will be expected and accepted; poor or sloppy workmanship will be rejected.
- B. Interior: Conform to manufacturer's printed specifications and instructions, and to "thin setting" instructions and sketches contained in "Handbook for Ceramic Tile Installation" for each condition encountered on the job.

3.04 PROTECTION AND CLEANING

- A. Close areas to traffic until tile has firmly set. Do not work on floors without use of kneeling boards.
- B. Tile to be cleaned in accordance with ANSI specifications and tile manufacturer's recommendations.
- C. Exposed surfaces of material to be sponged and washed down removing all dirt and muss of every description. Material to be left thoroughly clean. Use of acid or acid cleaners is prohibited.

3.05 CLEAN-UP

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

SECTION 09390
TILE BACKER BOARD PANELS

PART I - GENERAL

1.01 **SECTION INCLUDES**

- A. Backer board for ceramic tile
- B. Fasteners

1.02 **RELATED SECTIONS**

- A. Rough Carpentry: SECTION 06100
- B. Gypsum Board Systems: SECTION 09260
- C. Ceramic Tile: SECTION 09310

1.03 **INTENT**

- A. *This Specification generally outlines requirements for backer board work, it is not intended to modify, amend or otherwise change manufacturer's specifications for uses intended; manufacturer's specifications govern.*

1.04 **REFERENCE STANDARDS**

- A. American Society for Testing Materials (ASTM)

1.05 **SUBMITTALS**

- A. Submit per SUBMITTALS Section; one sample of panel material. Include manufacturer's descriptive literature. Owner's acceptance is required prior to shipment.

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The Drawings were prepared and this Specification written on the basis of using the products of Georgia Pacific Corporation, Atlanta, Georgia. It is not the intent to limit competitive bidding. "Wonder-Board" panels, 7/16" thick, a products of O.E.I. Corporation, Bakersfield, California, can be submitted as a substitution.

2.02 **MATERIALS**

- A. Tile backer board panels: "Dens-Shield Firestop", type "X", 5/8" thick, non-structural, fiberglass-faced, silicone treated gypsum core panel.
- B. Joint Reinforcement: 2 inch wide, coated fiberglass mesh tape.
- C. Fasteners: Screws, 1-1/4" corrosion resistant; type specified by panel manufacturer for system used.

PART III - EXECUTION

3.01 DELIVERY AND STORAGE

- A. Deliver materials in original unopened packages. Store to provide protection from damage and exposure to elements. Remove damaged or deteriorated materials from premises.

3.02 PREPARATION

- A. Inspect substrate to insure it is flat (not cupped), dry and securely fastened to framing. Shim as necessary to provide flat surface for panels.

3.03 INSTALLATION

- A. Install behind all ceramic tile walls and where indicated on the Drawings; in accord with manufacturer's specifications for complete system of leveling, laminating, furring, fastening, and joint treatment, as required for system indicated.
- B. Use maximum lengths possible to minimize number of joints. Locate edge joints parallel to and on framing.

3.04 CLEAN-UP

- A. Upon completion of work of this Section remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Ceiling suspension system
- B. Ceiling panels

1.02 REFERENCE PUBLICATIONS AND STANDARDS

- A. American Society for Testing Materials (ASTM)
- B. Acoustical Materials Association (AMA):
"Specifications for Acoustical Tile and Lay-In Panel Ceiling Suspension System"

1.03 SUBMITTALS

- A. Prepare and submit shop and erection drawings per SUBMITTALS Section, of mechanical suspension system for Owner's acceptance.
- B. Submit two samples of each panel type for Owner's acceptance (if other than specified item is intended for use).

1.04 COORDINATION OF WORK

- A. Coordinate all work with the installation of lighting and HVAC work.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and this specification written on the basis of using the products and the specifications of the following manufacturers. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 MATERIALS

- A. Exposed Grid System:

Type 1: "Prelude", 15/16" exposed 24" x 24" suspension system to match lay-in panels, custom color: Bennigan's Copper, by Armstrong World Industries, Inc. (800) 448-1405. Finish to be factory applied.

Type 2: USG "Donn DX" exposed 24"x48" suspension system, color to match lay-in panels. Finish to be factory applied. Armstrong equivalent is acceptable..

- B. Lay-In Panels:

Type 1: 24" x 24" x 3/4", Class A, fire rated, Tincraft #8008, custom color: Bennigan's Copper, by Armstrong World Industries, Inc. (800) 448-1405

Type 2: 24" x 48" x 5/8", Mylar-Faced "Clean Room Mylar" Board Unit #1721, color white, by Armstrong Cork Company or Vinylrock 1140, color white, by Acoustiflex Corporation.

PART III - EXECUTION

3.01 DELIVERY AND STORAGE

- A. Deliver materials in original unopened packages and store in an enclosed shelter providing protection from damage and exposure to the elements. Remove damaged or deteriorated materials from the premises. Immediately prior to installation, tile and panels shall be stored for a sufficient time to stabilize at temperature and humidity conditions ambient during installation and anticipated during occupancy.

3.02 ENVIRONMENTAL CONDITIONS

- A. Installation of panels shall not begin until building is enclosed and permanent heating and cooling equipment is in operation.

3.03 SCAFFOLDING

- A. Furnish, erect, move, maintain and finally remove from premises all scaffolding and staging required for erection of the work of this section.

3.04 INSTALLATION

- A. Install system in full accord with manufacturer's recommendations and approved shop drawings, in patterns and locations shown or indicated on the drawings.
- B. Suspension systems installed by direct suspension from structural systems in accordance with manufacturer's specification. Install additional hangars at ends of each suspension member, at each end of light fixtures, and 6 inches from vertical surfaces. Do not splay wires more than 5 inches in a 4-foot drop. Bottom of surfaces shall be flush and level. Miter corners where wall moldings intersect.
- C. The plumbing and heating contractors shall not utilize hangars or framing of suspension system. The electrical contractor may utilize suspension system for lay-in fixture installation but shall furnish two supplementary hangars per fixture for maintaining maximum load deflection. Electrical contractor shall not utilize tile as sole support for any ceiling-mounted electrical device. All ceiling-mounted electrical devices shall be supported with brackets attached to tees.
- D. Ceilings laid out as shown on the drawings, however, if not specifically shown, ceilings laid out from center of room in both directions so that cut tiles are equal at all edges. Place materials to have full bearing on suspension members.

3.05 CLEAN-UP

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

SECTION 09545
REINFORCED PLASTIC PANELS

PART I - GENERAL

1.01 **SECTION INCLUDES**

- A. Reinforced plastic paneling
- B. Moldings
- C. Adhesives

1.02 **RELATED SECTIONS**

- A. Gypsum Board Systems: SECTION 09260

1.03 **SUBMITTALS**

- A. Submit two samples, per SUBMITTALS Section, of each material proposed to the Owner for acceptance.

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The drawings were prepared and portions of this specification written on the basis of using the products of The NUDO Corp., Springfield, IL, 800-826-4132. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.

2.02 **MATERIALS**

- A. Panels: Nudo, Product No. LP-F9, .090" thick, fiberglass reinforced panels; manufacturer's standard Class A. Provide 4'x8', 4'x9' or 4'x10' sheets as required to minimize seams.
- B. Moldings: Manufacturer's standard, types for conditions intended for use.
- C. Adhesive: General purpose adhesive of type as recommended by manufacturer.
- D. Sealant: "Nudo, Super Silicone Sealant" of color to match panels.
- E. Colors: Manufacturer's standard colors as noted on the drawings.

PART III - EXECUTION

3.01 **HANDLING**

- A. Handle with care to prevent damage of any sort. Scratched, damaged panels will not be accepted in the finished work. Replace all defective panels at no additional cost to the Owner.
- B. Deliver materials in manufacturer's original packaging. Remove from shipping skid and restack on a solid, flat, dry surface a minimum of 24 hours prior to installation. Do not stack panels directly on concrete floor.

- C. Inspect panels for any defects or panels of unacceptable quality and remove from premises.

3.02 **PREPARATION**

- A. Panels: Back of panels shall be free of any foreign material or contaminants.
- B. Surfaces to be Covered: Surface shall be flat and true. Use a fast-setting underlayment to correct any surface irregularities. The surface to be covered shall be free of dirt, dust, grease, loose scaling paint, or other contaminants.

3.03 **INSTALLATION**

- A. Install in complete accord with manufacturer's printed instructions. Intermediate horizontal seams are not acceptable, except where specifically noted on the drawings.
- B. All edges and joints of panels shall receive molding. Use continuous 10 foot lengths of molding at all panels. Piecing will not be acceptable.

3.04 **CLEAN-UP**

- A. Upon completion of work of this section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Resinous Flooring
- B. Protection of completed work

1.02 RELATED SECTIONS

- A. Cast in place concrete: SECTION 03300
- B. Sealants and Caulking: SECTION 07920

1.03 REFERENCE STANDARDS

- A. American Society of Testing Materials (ASTM):

1.04 SUBMITTALS

- A. Submit two 4 inch x 4 inch samples, per SUBMITTALS Section, to the Owner for acceptance.
- B. Product data: Provide manufacturer's technical data, installation instructions, and general recommendations for each resinous flooring material required.

1.05 QUALITY ASSURANCE

- A. Single source responsibility: obtain primary resinous flooring materials from a single manufacturer with not less than ten years of experience in manufacturing and installing the principal materials described in this section.
- B. Pre-Installation Conference
 - 1. General contractor shall arrange a meeting not less than thirty days prior to starting work.
 - 2. Attendance
 - a. General Contractor
 - b. Architect/Owner's Representative
 - c. Manufacturer/Installer's Representative

1.06 ENVIRONMENTAL

- A. Maintain materials and surrounding air to between 60 and 90° F prior to, during, and 48 hours after completion of work.
- B. Concrete substrate shall be properly cured for a minimum of 30 days. A vapor barrier must be present for concrete subfloors on or below grade. Otherwise, an osmotic pressure resistant grout must be installed prior to the resinous flooring.
- C. Job area to be free of other trades during, and for a period of 24 hours, after floor installation.
- D. Protection of finished floor from damage by subsequent trades shall be the responsibility of the General Contractor.

1.07 **WARRANTY**

- A. Manufacturer to furnish a single, written warranty covering both material and workmanship for a period of one full year from date of installation.

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The drawings were prepared and portions of this specification written on the basis of using the products manufactured by Stonhard, Inc, Plano, Texas, David Popa (972) 424-2525. Although a national account has been established with this vendor, it is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.

2.02 **MATERIALS**

- A. **Resinous Flooring:**
Stonclad GS reinforced with a fiberglass veil and coated with Stonkote HT4 with Texture #3 is a nominal 1/4" thick system comprised of a penetrating, moisture tolerant, two-component epoxy primer, a high performance, three-component mortar consisting of epoxy resin, curing agent and selected, graded aggregates blended with inorganic pigments, a high performance two-component epoxy fiberglass saturant liquid, a 3/4 ounce chopped strand fiberglass, and a two-component, 100% solids, chemical resistant, bisphenol F epoxy coating and a selected, graded aggregate.
- B. **Joint Sealant:**
Type produced by manufacturer of resinous flooring system for type of service and joint condition indicated.
- C. **Color:**
Manufacturer's standard "brick red", and "charcoal" as indicated in drawings.
- D. **Texture:**
Verify texture gradient with owner.

PART III - EXECUTION

3.01 **EXAMINATION**

- A. Verify that surfaces are ready to receive work of this section. Beginning of installation means acceptance of substrate.

3.02 **PREPARATION**

- A. Subsurface preparations shall be by mechanical means and include use of a scabbler, scarifier or shot blast machine for removal of bond inhibiting materials such as curing compounds or laitance.

3.03 **INSTALLATION**

- A. **Preparation:** Apply each component of resinous flooring system in compliance with manufacturer's

directions to produce a uniform monolithic wearing surface of thickness indicated, uninterrupted except at divider strips, sawn joints or other types of joints.

- B. Primer: Mix and apply primer over properly prepared substrate with strict adherence to manufacturer's installation procedures and coverage rates. Coordinate timing of primer application with application of troweled mortar to ensure optimum adhesion between resinous flooring materials and substrate.
- C. Troweled Mortar: Mix mortar materials according to manufacturer's recommended procedures. Uniformly spread mortar over substrate using manufacturer's specially designed screed box adjusted to manufacturer's recommended height. Hand trowel apply mixed material over freshly primed substrate using stainless steel finishing trowels.
- D. Surface Veil: Notched squeegee apply saturant liquids over fully cured mortar. Place fiberglass reinforcement into wet saturant liquids and back roll to provide uniform finish.
- E. Broadcast: Broadcast aggregate into wet coating using manufacturer's specially designed broadcaster. Strict attention must be paid to manufacturer's coverage rates.
- F. Coating: Remove any surface irregularities by lightly abrading and vacuuming the floor surface. Mix and apply coating with strict adherence to manufacturer's installation procedures. Squeegee apply and backroll with strict adherence to manufacturer's installation procedures and coverage rates.

3.04 PROTECTION AND CLEANING

- A. Protect work, adjacent work, and materials by suitable covering. Upon completion of work, remove spots from countertops and other surfaces.

3.05 CLEAN-UP

- A. Upon completion of work of this section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Painting all exposed exterior and interior surfaces not specifically excluded herein.

1.02 RELATED SECTIONS

- A. Factory applied prime coats.
- B. Joint treatment, taping, bedding and texturing of gypsum drywall.
- C. Special coatings and finishes not specified herein.

1.03 WORK SPECIFICALLY EXCLUDED

A. General: Painting

- 1. Sitework paving and surfacing
- 2. Concrete foundations, walls, panels, slabs, etc.
- 3. Factory finished materials specified in the following Divisions of these specifications:
 - a. WOOD AND PLASTIC
 - b. MASONRY
 - c. FINISHES
 - d. SPECIALTIES
- 4. Factory finished:
 - a. Roofing
 - b. Hardware
 - c. Electrical devices and cover plates
- 5. Factory finished mechanical and electrical equipment, panel boards, piping, devices, etc., located in special purpose enclosures, rooms or spaces, such as screens, mechanical rooms, equipment rooms, electrical rooms, telephone rooms and janitor rooms.

- B. Exceptions: Items listed above specifically noted "Paint" on the drawings or in other sections of these specifications.

1.04 INTENT

- A. Providing Owner selected finishes and colors for exposed surfaces of the work of the construction contract. Contractor shall be responsible for field painting surfaces (not excluded above) including exposed factory finished mechanical and electrical equipment, piping, etc. "Exposed" shall mean visible from: ground level; floors and levels of construction of this contract; and floors and levels of buildings on adjacent properties.

1.05 QUALITY ASSURANCE

- A. Qualifications of Workmen:
Employ skilled workmen, experienced in the use of the specific product involved. Quality workmanship is required.

- B. Approval of Manufacturer:
Materials used shall be exactly as specified in quality. No claim by painting subcontractor to unsuitability or unavailability of any material specified, or his unwillingness to use same, or his inability to produce quality work with same, will be entertained.

- C. Regulatory Agency Requirement:
Conform to applicable codes(s) for flame/fuel/smoke rating requirements for finishes.

1.06 **SUBMITTALS**

- A. Paint Schedule:
As soon as possible after Contract is signed, prepare and submit to Owner for acceptance an itemized PAINT SCHEDULE, listing the kinds and types of paints proposed for each and every application by name of manufacturer and brand name and color number of the paint for each application. This PAINT SCHEDULE submitted shall be similar in tentative paint list contained hereinafter with no exceptions.
- B. Samples:
Prepare and furnish in duplicate, on chips approximately 8"x10" in size, dry specimens of each type finish for Owner review. Whenever possible, specimens shall be on the same type material as that on which it is to be used.

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The Drawings were prepared and this Specification written on the basis of using the products of specific manufacturers. Such is intended to establish minimum quality standards, not to limit competitive bidding. Products with equal or superior characteristics by other manufacturers are acceptable under conditions of the Specifications.
- B. Basic Materials:
ICI Paints, Cleveland, Ohio, (800) 984-5444.
- C. Stain Materials:
Minwax Company, Inc., Upper Saddle River, New Jersey.

2.02 **KINDS OF MATERIALS**

- A. Do not use products containing lead.

2.03 **MATERIALS**

- A. General:
Process pigments to soft paste consistency; capable of being readily and uniformly dispersed to homogeneous coating. Good flow and brushing properties; capable of drying or curing free of streaks or sags.
- B. Paint/Coatings:
1. Exterior
 - a. Latex House Paint; Decra - Shield exterior 100% acrylic semi-gloss finish 2406--xxxx
 - b. Latex House Paint; Decra - Shield exterior 100% acrylic flat finish 2200-xxxx
 - c. Latex Masonry Paint; Ultra-Hide Durus - Exterior acrylic flat masonry finish 2220-xxx

2. Interior

- a. Alkyd Enamel; Ultra-Hide Alkyd Eggshell Interior Wall and Trim Enamel 1512-xxxx
- b. Latex Wall Paint; Ultra-Hide Latex Flat Interior Wall Paint 1210-xxxx

C. Primers/Fillers/Sealers:

1. Primers:

a. Exterior:

Wood: Ultra-Hide Durus Exterior Alkyd Primecoat 2110-1200

Steel: Devguard All Purpose Metal and Galvanized Primer 4120-1000

Galvanized Steel: Devguard All Purpose Metal and Galvanized Primer 4120-1000

Block (CMU): Ultra-Hide Interior/Exterior Vinyl Acrylic Block Filler 3010-1200

b. Interior:

Wood: Ultra-Hide Oil/Alkyd Interior Wood Undercoat 1120-1200

Steel: Devguard All Purpose Metal and Galvanized Primer 4120-1000

Block (CMU): Ultra-Hide Interior/Exterior Vinyl Acrylic Block Filler 3010-1200

2. Stains:

a. Exterior: Minwax wood finish, semi-transparent stain.

b. Interior: Minwax wood finish, semi-transparent stain.

3. Varnishes/Urethanes:

a. Exterior: "Spar Varnish 40"

b. Interior: "Urethane Varnish 10", Semi-gloss.

D. Accessory Materials:

Provide Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified, of commercial quality.

E. Colors:

Colors will be selected by the Owner, who reserves the right to select colors formulated by manufacturers other than listed herein. Match color(s) selected and submit color match sample(s) for Owner's acceptance.

2.04 SCAFFOLDING, DROP CLOTHS, ETC.

- A. Provide, in place, staging, ladders, plastic sheeting or other forms of drop cloths, masking tapes, storage lockers for paint materials and mixing equipment as needed for proper performance of work; move as necessary during course of work, and remove from premises when work is completed, or when directed.

2.05 MIXES

- A. Ready-mixed materials, unless otherwise accepted by the Owner; thin or reduce only in accord with manufacturer's instructions.

PART III - EXECUTION

3.01 DELIVERY

- A. Deliver materials in unopened containers bearing manufacturer's brand name or catalog number, and name or description of paint material. Carefully check delivered materials against approved PROPOSED PAINT SCHEDULE.

3.02 **STORAGE**

- A. Store paint materials, at minimum and maximum ambient temperatures required by Manufacturer's instructions, in well ventilated area. Take precautionary measures to prevent fire hazards and spontaneous combustion. Keep area neat and clean. Protect storage area from damage or abuse from storing operations. Repair and/or replace damage or abuse to storage area and it's surroundings.

3.03 **INSPECTION**

- A. Examine surfaces scheduled to be finished prior to commencement of work. Verify that surfaces are ready to receive work as instructed by product manufacturer. Report any condition that may potentially affect proper application. Beginning of installation means acceptance of existing surfaces.

3.04 **CONDITIONS**

- A. When surface temperature is below 50 F, do not apply paints, varnishes, and coatings, unless otherwise specified. Do not prime exteriors during frosty or rainy weather. Avoid painting surfaces while they are exposed to hot sun.

3.05 **PREPARATION**

- A. Prepare surfaces, prior to painting, as specified by paint material manufacturer; Generally, remove dirt, rust, scale, splinters, grease and oil, etc. from surfaces to be painted. Remove prefinished hardware, electrical devices, etc. before painting; Replace such items after finishes are completely dry. Do not paint exterior or interior until surfaces are thoroughly dry. Painting contractor is responsible for defective improperly prepared surfaces.

3.06 **PROTECTION**

- A. Protect elements surrounding work of this Section from damage or disfiguration; Repair damage to other surfaces caused by work of this Section. Furnish drop cloths, shields, and protective methods to prevent spray or droppings from disfiguring other surfaces.

3.07 **MOCK-UP**

- A. If required by the Owner, before proceeding with any painting, prepare and finish a "mock-up" sample room, complete or in part, as directed by the Owner. Finish areas or items in accord with this Specification, in colors selected by the Owner. "Mock-up" will be inspected by the Owner; if "mock-up" is not accepted, finish another sample room. Finally accepted, "mock-up" will be standard for workmanship, appearance and materials throughout Project.

3.08 **PAINTING**

- A. General: Apply materials in accord with manufacturer's instructions. Use techniques and applications best suited for type of material being applied. Spread or flow materials on sags, skips or other defects. Cut paint in neatly around glass and other edges. Mix, stir, blend, etc., in strict accordance with manufacturer's directions. Specific attention is called to stirring time intervals for stains.
- B. Drying Time: Unless otherwise specified, allow exterior paints to dry for 48 hours and interior paints for 24 hours between coats.
- C. Sanding: Sand enamels and varnishes lightly and dust between coats.

- D. Acceptance: Work is subject to acceptance by the Owner. Correct any work not complying with these Specifications to satisfaction of the Owner.

3.09 **PROTECTION AND CLEANING**

- A. Protect work, adjacent work, and materials at all times, by suitable covering. Upon completion of work, remove all paint and varnish spots from floors, glass and other surfaces.

3.10 **EXTRA STOCK**

- A. Provide a one gallon container of each type, in each color to Owner. Label each container with color and room locations, in addition to manufacturer's label.

3.11 **PAINT SCHEDULE**

- A. General: Where any particular application is not mentioned in this schedule, Contractor figure on application of manufacturer's specification for application which is consistent with types and qualities listed herein.

B. Exterior Surfaces:

1. Wood-"Paint"
1st coat: Wood Primer
2nd coat: Latex House Paint, Flat
3rd coat: Same

2. Ferrous Metals
1st coat: Steel Primer
2nd coat: Latex House Paint, Flat
3rd coat: Same

NOTE: Omit first coat on materials already prime painted but touch up bare spots with Metal Primer

3. Steel Doors and Frames
1st coat: Touch up shop primer
2nd coat: Latex House Paint, Gloss
3rd coat: Same

4. Galvanized Metals
1st coat: Galvanized Steel Primer
2nd coat: Latex House Paint, Flat
3rd coat: Same

5. Brick and Concrete Masonry
1st coat: Block Primer
2nd coat: Latex House Paint, Flat
3rd coat: Same

C. Interior Surfaces:

1. Wood "Paint"
1st coat: Wood Primer; tint to approximate shade of second coat
2nd coat: Alkyd Enamel, Eggshell

2. Wood "Natural"
1st coat: Interior Stain
2nd coat: Interior Varnish
3rd coat: Same
3. Woodwork Backpriming
One coat: Wood Primer
4. Gypsum Wallboard
1st coat: Latex Wall Paint, Flat
2nd coat: Same
5. Ferrous Metal
1st coat: Steel Primer
2nd coat: Alkyd Enamel, Eggshell
3rd coat: Same

3.12 **CLEAN-UP**

Upon completion of work of this Section, remove related debris from premises.

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Toilet partitions, doors and panels
- B. Hardware

1.02 RELATED SECTIONS

- A. Toilet Accessories: SECTION 10810
- B. Rough carpentry: SECTION 06100

1.03 SUBMITTALS

- A. Submittals required if different than specified items.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The Drawings were prepared and this Specification written on the basis of using the products and the specifications of Bobrick Washroom Equipment, Inc., North Hollywood, California, (818) 764-1000. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these Specifications.

2.02 TOILET PARTITIONS

- A. Toilet Partitions: Laminated plastic finish, floor mounted, overhead braced, Series 1042.
 - 1. Partition Pilasters: Flush type, 1 inch thick. Form, interlock, and finish units with integral or drawn crown edge. Provide Type 302 stainless steel trim to cover attachment of pilasters to finish floor.
 - 2. Partition Panels: Flush, 1 inch thick, constructed and finished same as pilasters.
- B. Doors: Flush type, 1 inch thick. Form, interlock, and finish units with integral or drawn crown molding edge, same as panels. Internally reinforce doors for hardware.
- C. Hardware: Stain finished Type 302 stainless steel, anodized aluminum, chromium plated brass or other nonferrous metal. Provide following at each stall.
 - 1. Door Hinges: Surface mounted or cut-out inset type, adjustable to hold doors open any angle to 90°, handicap toilet stalls shall have self-closing hinges.
 - 2. Latch: Concealed slide type latch with emergency access provision and with combination latch keeper and bumper stop. Provide handicap approved pull handle for out-swinging doors.
 - 3. Coat Hook: Combination coat hook and rubber tipped door bumper.
 - 4. Laminated Plastic: Grade 10/HGS (General Purpose Standard Grade), NEMA Type GP 50. color: Nevamar ES-2-2T Honey Tone Essence (textured).

PART III - EXECUTION

3.01 INSTALLATION

- A. Install partitions where indicated on the Drawings and in accord with the manufacturer's instructions, including installation and adjustment of hardware.
- B. All handicapped bathroom fixtures and toilet accessory installation dimensions shall comply with all ADA, state and local handicapped code requirements.

3.02 CLEANING

- A. Clean doors, partitions, panels and hardware upon completion of the work. Cleaning materials and procedure shall conform to the manufacturer's maintenance instructions.

3.03 CLEAN-UP

- A. Upon completion of work of this Section, *remove related debris from premises.*

END OF SECTION

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Fire extinguishers
- B. Mounting brackets

1.02 SUBMITTALS

- A. Submit per SUBMITTALS Section.
- B. Prepare and submit product data sheets for acceptance.
- C. Provide new portable fire extinguishers, which are UL listed and bear UL "Listing Mark" for type, rating, and classification of extinguisher indicated.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and this specification written on the basis of using the product and the specifications of the J. L. Industries Division, J. N. Johnson Co., Inc. Minneapolis, Minnesota. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 MATERIALS

- A. Dining Area Fire Extinguishers: Provide a minimum of four, equal to J.L. Industries "Cosmic A" Series Model 10E, wall-mounted 10 lb. capacity with nozzle. Fire extinguishers shall be a multi-purpose dry chemical type, enameled, metal containers with pressure indicated gauges, for Class A, B, and C fires. Approved equal fire extinguisher as manufactured by Larsen's Manufacturing Co., or Muckle Manufacturing Co. shall also be acceptable for use on this project.
- B. Kitchen Area Fire Extinguishers: Provide a minimum of two, equal to J.L. Industries "Galaxy Series - Model 6" wall-mounted, dry chemical type 40 BC UL rated, 6 lb. capacity fire extinguishers with pressure gauge.
- C. Brackets: Equal to J.L. Industries "Mark Brackets, Model No. MB846" complete with required anchors, of required size for Model 10E fire extinguisher and "Mark Brackets, Model MB808" for Model 6 fire extinguisher.
- D. Anchors: Non-corrosive types as required by wall conditions.

PART III - EXECUTION

3.01 INSTALLATION

- A. Mount on walls in strict conformance with manufacturer's instructions, in locations directed by local Fire Marshall.

END OF SECTION

SECTION 10810
TOILET ACCESSORIES

PART I - GENERAL

1.01 **SECTION INCLUDES**

- A. Toilet Accessories
- B. Installation Requirements

1.02 **RELATED SECTIONS**

- A. Sealants and Caulking: SECTION 07920
- B. Rough Carpentry: SECTION 06100
- C. Glass: SECTION 08811

PART II - PRODUCTS

2.01 **MANUFACTURER**

- A. The drawings were prepared and portions of this specification written on the basis of using the products of Bobrick Washroom Equipment, Inc., North Hollywood, CA. No substitutions allowed.
- B. All bathroom fixtures and accessories shall comply with all federal, state and local handicap accessibility code requirements.

2.02 **ACCESSORIES**

- A. Deliver items in manufacturer's unopened protective cartons. Maintain covers on units until installation is complete.
- B. Provide the following accessories in quantities and in locations indicated on the drawings:
 - 1. (TA-1) Grab Bars: No. B-5806.99 x length and configuration shown on the drawings (with appropriate anchors).
 - 2. (TA-2) Toilet Paper Dispenser: By Owner.
 - 3. (TA-3) Feminine Napkin Disposal: No. B-270.
 - 4. (TA-4) Paper Towel Dispenser: By Owner.
 - 5. (TA-5) Not used.
 - 6. (TA-6) Waste Receptacle: No. B-3644.
 - 7. (TA-7) Not used.
 - 8. (TA-8) Soap Dispenser: By Owner
 - 9. (TA-9) Baby Changing Station: Fold down FDA approved, molded of heavyweight polypropylene with straps equal to Koala Bear Kare Changing Station, Denver, Colorado, Phil Richard, (800) 666-0363, provided by Owner for installation by Contractor. A national account is established with this vendor.
 - 10. (TA-10) Surface-Mounted Wall Urn: No. B-278
 - 11. (TA-11) Not used.
 - 12. (TA-12) Decorative Mirror: By Owner

2.03 SEALANTS

- A. Same as specified for exterior sealing in SEALANTS AND CAULKING.

PART III - EXECUTION

3.01 INSPECTION

- A. Inspect blocking and plate inserts in framing to determine if material is in proper position for installation of accessories prior to wallboard surfacing being applied. Units securely attached to framing. Grab bars installed to withstand a 900 lb. loading condition; provide necessary concealed anchorage devices to meet load requirements.

3.02 INSTALLATION

- A. Install items in accord with manufacturer's instructions, in locations shown on the drawings in cooperation with the work of other trades.
- B. Remove protective covers at final cleanup of installation.

3.03 CLEAN-UP

- A. Upon completion of work of this section remove related debris from premises.

END OF SECTION

SECTION 11400
FOOD SERVICE EQUIPMENT (INSTALLATION)

PART 1- GENERAL

1.01 SCOPE OF WORK

- A. Furnish labor, materials, services for rough-in and final utility connections to equipment and appliances required for food service equipment installation work, indicated on the Drawings and specified herein.

1.02 WORK INCLUDED, BUT NOT INCLUSIVE

- A. Owner provided food service equipment shall be furnished, assembled, and set in place under separate contract, with final utility connections by General Contractor.
- B. Miscellaneous materials required for installation.

1.03 RELATED WORK SPECIFIED ELSEWHERE

- A. Mechanical services and final connection to equipment.
- B. Electrical services and final connection to equipment.

1.04 QUALITY ASSURANCE

- A. Installer; companies specializing in installation of commercial food services equipment with minimum three years experience.

1.05 REGULATORY AGENCY REQUIREMENTS

- A. Conform to a applicable codes for installation.

1.06 REFERENCE STANDARDS

- A. Underwriters Laboratories (UL)\
- B. National Electric Manufacturers Association (NEMA)
- C. American Gas Association (AGA)
- D. American Society of Mechanical Engineers (ASME)
- E. National Fire Protection Association (NFPA)
- F. American Society for Testing Materials (ASTM)
- G. National Sanitation Foundation (NSF)

1.07 INSTALLATION INSTRUCTIONS

- A. Owner will provide equipment manufacturers' installation instruction for Contractor's use.

1.08 OPERATION AND MAINTENANCE DATA

- A. Owner will provide equipment manufacturers' operation and maintenance data with equipment for Contractor's use.

1.09 COORDINATION

- A. Coordinate size of access and route to place of installation.;

1.10 **GUARANTEE**

- A. Provide start-up and one year service and maintenance contract in addition to regular one year guarantee for self-contained refrigeration systems.

PART II - PRODUCTS

2.01 **MATERIALS**

A. Owner Provided (By Owner):

1. Equipment scheduled on the Drawings
2. Mechanical refrigeration systems, including compressor units, condensers, evaporator coils, and control valves.
3. Motor starters.
4. Walk-in refrigerator/freezer thermostats.
5. Stainless steel trim strips, supports and connections, attachment devices, and accessories for food service equipment.

B. Contractor Provided: Refrigerant System Installation

1. Refrigerant Lines: Type "L" hard copper tubing.
2. Fittings: Wrought copper or brass designed for use with high temperature solder.
3. Piping Joints: Made with silver solder (Sil-Fos)
4. Piping: Properly suspended from an anchored to the structure with adjustable hangers at 6' o.c. maximum.
5. Suction Lines: Size to have maximum pressure drop of two pounds in medium temperature systems, one pound in low temperature system.
6. Liquid Lines: Sized to give maximum pressure to prevent trapping of oil. Rigid insulation on all suction lines to be Armaflex insulation by Armstrong - 1" thick at medium temp., 1-1/2" thick at low temp. Refrigerant lines in PVC or EMT conduit to be sealed at both ends with Dow Corning 3-6548 silicone RTV foam.
7. Evacuation and Charging: After completion of the pressure test, the system shall be evacuated using an approved auxiliary vacuum pump. Connections for evacuation to be in accordance with manufacturer's recommendation.

PART III - EXECUTION

3.01 **DELIVERY, HANDLING, AND STORAGE**

A. Delivery: (By Owner)

Upon receiving equipment, check crates/cartons identification labels with receiving P.O.; assure correct item has been received.

B. Handling: (By Owner)

Uncrate equipment in organized manner. Take care not to misplace loose parts, accessories, assembly and operating instructions, and warranty cards. Keep utility hookup notes and tags on equipment until after connections are made. Assemble in workmanship manner in accord with manufacturers directions, taking care to make sure fasteners are tight and components are aligned and square.

C. Storage: Store equipment clear of floor in manner to prevent warping twisting, or sagging.

3.02 **INSPECTION**

- A. Verify ventilation outlets, service connections, and supports are correct and in required location. Verify all walls are finished, ceiling grid/panels and related items (lights, grills, etc.) installed, and floor tile installed and cleaned. Beginning of installation means acceptance of existing conditions.

3.03 **PREPARATION**

- A. Broom sweep building clean. Study drawings and report to Architect any compressor and condensing unit located without adequate ventilation, so as to affect operational efficiency of such units, and include with report recommendations for corrective procedures. Install no work until adequate ventilation is arranged.

3.04 **INSTALLATION**

A. **General:**

Install items in accord with manufacturer's instructions and fabricator's Shop Drawings. Install in accord with local governing Health, Building and Safety, and Fire Protection Codes and Regulations and MEMA, UL, AGA, ASME, and NFPA.

B. **Electrolysis:**

Insulate to prevent electrolysis between dissimilar metal. Provide sealant to achieve clean joint without crevices.

C. **Equipment:**

1. **General:**

Set in place and position per kitchen equipment plan; ready for utility hook up. After utility hookups are made, level and secure dishtables to slope towards dishwasher. Completely close and seal gaps, joints and seams between fixtures/equipment and walls, ceilings, and floors with stainless steel trim strips and/or clear silicone sealant. Do not use sealant in joints or seams over 3/16 inch wide.

2. **Refrigerant Piping**

Install copper tubing and fittings. Cut with pipe cutters and reshape with sizing tool. Expose piping to view as required By American Standard Safety Code for Mechanical Refrigeration. For exposed areas or accessible furred ceiling spaces, use hard copper tubing. Run exposed tubing in such manner as to prevent damage from activities in area; otherwise, run tubing in pipe or conduit.

a. **Suction Lines:**

Size to give max. pressure drop from evaporator to machine of 2 lb for high temp. system and 1 lb. for freezer system, allowing gas velocities of not less than 50 RPM in horizontal runs and 1500 RPM in vertical risers. Size liquid lines to give max. pressure drop of 3 lb. from receiver to evaporator.

b. **Tubing Runs:**

Grade to prevent trapping of oil.

c. **Ties:**

Secure suction and liquid lines for each system together, except when run through conduit, 24 inch intervals with black plastic electrical tape.

- d. Insulation:
Insulate refrigerant suction lines outside of refrigerated compartments back to compressors.
 - e. Hangers and Supports:
Provide adjustable hangers, anchors or straps required for proper support of piping not run in conduit. Space hangers not to exceed 10 feet o.c. and closer where required for proper support of small piping. Provide insulated refrigerant piping with approved type sleeves at hanger points.
- 3. Walk-in Cooler Freezer Boxes
Transit level floor screens prior to wall and ceiling panel erection. Seal wall and/or ceiling penetrations for electrical conduits and refrigeration lines, etc., to prevent frost and condensate build-up. Electrical conduits; on exterior of box.
 - 4. Oil Separators
Provide low temperature operations of system, return line connected to top of crankcase above oil level. Provide exposed oil return lines with shut-off valves of packless stem type.
 - 5. Evaporator Coils
Support by hangers utilizing fish plates on top of walk-in unit a full 4 inches clear from underside of ceiling panels.
 - 6. Remote Beer Systems: Installed by local manufacturer's representative installer.

3.05 **ADJUSTING AND CLEANING**

- A. Adjust equipment and apparatus to ensure proper working order and conditions. Remove masking or protective covering from stainless steel and other finished surfaces. Wash and clean equipment. Polish glass, plastic, hardware and accessories, fixtures, and fittings.

END OF SECTION

PHONE CALL

FOR Kevin DATE 6/5 TIME 10:30 A.M.
 M. Bill P.M.

OF Design Line Construction

PHONE 732-887-0868 FAX _____

MESSAGE _____

☒ TELEPHONED
☐ RETURNED YOUR CALL
☒ PLEASE CALL
☐ WILL CALL AGAIN
☐ CAME TO SEE YOU
☐ WANTS TO SEE YOU

SIGNED _____

Adams 1154

PHONE CALL

FOR Kevin DATE 6/5 TIME 6:40 A.M.
 M. Bob Finnely P.M.

OF Famous Daves

PHONE 732-262-7485 FAX _____

MESSAGE Trying to get in touch
w/ you for a couple days

☒ TELEPHONED
☐ RETURNED YOUR CALL
☒ PLEASE CALL
☐ WILL CALL AGAIN
☐ CAME TO SEE YOU
☐ WANTS TO SEE YOU

SIGNED _____

Adams 1154

MAIN OFFICE:
123 WHITE OAK LANE, SUITE 225
OLD BRIDGE, NJ 08857
1-800-368-0024

Reliable Fire Protection

CITY OF NEW YORK
MASTER FIRE SUPPRESSION PIPING
CONTRACTOR - LICENSE #0151
350 FIFTH AVENUE, SUITE 3304
NEW YORK, NY 10118

CERTIFICATE OF INSPECTION

Mail to:
FAMOUS DAVES
950 CEDAR BRIDGE ROAD
BRICK, NJ 08844

Valid for the Location Below:
FAMOUS DAVES
950 CEDAR BRIDGE ROAD
BRICK, NJ 08844

All work done in accordance with NFPA regulations and all authorities having jurisdiction
ANY DISCREPANCIES ARE NOTED ON THE INSPECTION REPORT
Effective June 2003 through December 2003

Certificate issued by:


Douglas L. Cogel, President

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY

401 CHAMBERS BRIDGE ROAD • BRICK, NJ 08723

Joseph C. Scarpelli, Mayor

Township Council:

Steven N. Cucci — President
Stephen C. Acropolis
Kimberley S. Casten
Gregory S. Kavanagh
Kathy M. Russell
Tony R. Shupin
Frederick J. Underwood, Sr.



Department of Administration & Finance

Office of Land Use Management

Michael P. Fowler, AICP/PP
Municipal Planner
(732) 262-1042

Tara B. Paxton, AICP/PP
Assistant Municipal Planner
(732) 262-4783

Fax: (732) 262-8954
<http://www.twp.brick.nj.us>

October 23, 2002

John Gonsalves
Sign-It Signs
440 E. Westfield Avenue
Roselle Park, NJ 07204

02-3221
670
9.02

Re: Block 670, Lot 9.02
960 Cedar Bridge Avenue-Famous Dave's
Zoning Permit Application

Dear Mr. Gonsalves:

Your zoning permit application for a "led border" sign on the building on the referenced property cannot be approved because the Planning Board approved a colored rendering that depicted a subdued façade for Famous Dave's with no accent lighting.

Very truly yours,

Michael P. Fowler, AICP/PP
Office of Land Use Management

MPF/kb

cc: Mayor Joseph Scarpelli
Scott R. MacFadden, Business Administrator
Sean Kinnevy, Zoning Officer
Kate MacDonald, Assistant Zoning Officer
Daniel F. Newman, Jr., Construction Official ✓



OCEAN COUNTY HEALTH DEPARTMENT

No: _____

SANITARY INSPECTION REPORT

ESTABLISHMENT INFORMATION

PHONE # <i>(917) 796-1156 (TEMP.)</i>		ESTABLISHMENT CODE <i>22</i>	GOODS ☐ DESTROYED ☐ EMBARGOED
ESTABLISHMENT TRADING NAME <i>FAMOUS DAVE'S</i>		EVALUATION ☒ SATISFACTORY ☐ CONDITIONALLY SATISFACTORY ☐ UNSATISFACTORY	
NUMBER AND STREET <i>990 CEDARBRIDGE AVE</i>		WATER SUPPLY ☒ Public - Community ☐ Individual (Public - Non-Community)	
CITY OR MUNICIPALITY <i>BRICK</i>	ZIP CODE <i>08723</i>		
ESTABLISHMENT LICENSE NO.	COMMUN. CODE <i>1566</i>	RISK <i>I</i>	

OWNER INFORMATION

(Complete this section only if different from establishment information)

NAME OF OWNER(S), CORPORATION OR REGISTERED AGENT <i>ROBERT FANELLI</i>		TIME (2400 HOURS)	
NUMBER AND STREET <i>24 VLIET DR.</i>		DATE <i>6-25-02</i>	BEGIN <i>08:30</i>
CITY OR MUNICIPALITY <i>HILLSBOROUGH</i>		END <i>09:10</i>	
STATE <i>NJ</i>			
COMPLAINT NO.			
COMPLAINT REC.			
COMPLAINT INSPECTED			

INSPECTION TYPE ☐ COMPLAINT ☐ INITIAL INSPECTION ☐ REINSPECTION ☒ PLAN REVIEW ☐ CONFERENCE	TYPE OF ESTABLISHMENT ☒ RETAIL ☐ WHOLESALE ☐ VENDING MACHINE NO. OF MACHINES ☐ FROZEN DESSERTS ☐ 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) <i>Joseph A. Caprio</i>	
		SIGNATURE OF INSPECTING OFFICIAL <i>Joseph A. Caprio</i>	PERMANENT REG. NO. <i>B-0375</i>

OCEAN COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

CONTINUATION SHEET[illegible]

OFFICE OF AFFORDABLE HOUSING
CERTIFICATE OF COMPLIANCE

BLOCK 110 LOT 10 SITE ADDRESS 1100 1st St
TYPE OF SITE Residential / ~~Commercial~~ NAME OF BUSINESS _____
APPLICANT _____ PHONE NUMBER 703-791-1100
APPLICANT ADDRESS 1100 1st St CITY & STATE Richmond, VA

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 %
- ◇ Commercial is .01%
- ◇ The estimated equalized assessed value of the proposed construction is

\$ 522,000

Frederick R. Millman, CTA, Tax Assessor

8/1/02
Date

- ◇ The final equalized assessed value of the construction at the above referenced site is:

\$ _____

Frederick R. Millman, CTA, Tax Assessor

Date

Preliminary Fee Required _____
Preliminary Paid _____

Date _____
Check # _____
Receipt # _____

Final Total Fee Required _____
Preliminary Paid _____
Final Paid _____
Balance Due _____

Date _____
Check# _____
Receipt # _____

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.

Office of Affordable Housing

1430
ROBERT L. EMERSON
MARGARITA S. EMERSON

62-23/311

3082

DATE Aug. 12 2002

PAY TO THE
ORDER OF

TOWNSHIP OF BRICK
BRICK NJ 08723

40 CHAMBERS
BRIDGE RD.

\$ 2610.00

TWENTY-SIX THOUSAND TEN 00/100

DOLLARS

JPMorgan

Morgan Guaranty Trust
Company of New York
Checking Account

MEMO MANDATORY AFFORDABLE
HOUSING TRUST FEE

[Signature]

[Redacted]

Joseph C. Sc
Township Cour
Steve
Steph
Kimbe
Gregc
Kathy
Tony I
Frederick J. Underwood, Sr.

& Finance
using
nistrator
6
j.us

To: Scott M. Pezarras, Chief Financial Officer
From: Lisa Rose Tavalaccio, Office of Affordable Housing
Re: Affordable Housing Fees

Business/Development: Famous Dave
Owner/Applicant: Design Line Construction
Property Address: 960 Cedar Bridge Ave Bldg. 4A
Block: 670 Lot: 9.02

DEPOSIT RECEIVED

Mandatory Development Fee

Commercial
Residential

Inclusionary Development Fee

DATE: 8/14/02

Check Number 3082
Preliminary Fee Paid 2610.00
Final Fee Paid _____

FOR DEPOSIT ONLY - AFFORDABLE HOUSING TRUST ACCOUNT 36 367087

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:

Kathy Tiebergm
Signature

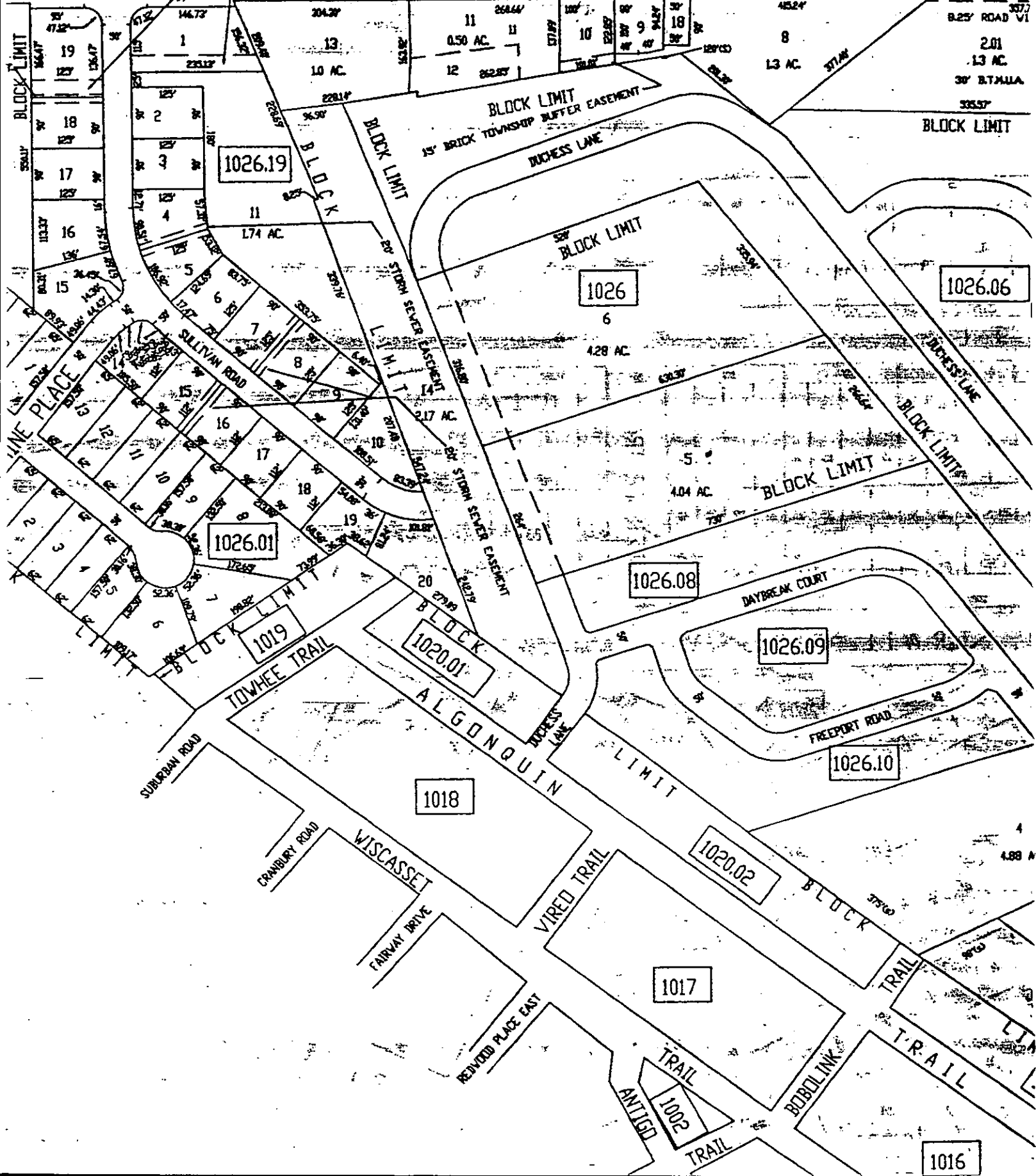
8-14-02
Date

OFFICE OF AFFORDABLE HOUSING

ANBT PRELIMINARY APPROVAL

30' LANDSCAPE BUFFER EASEMENT

W JERSEY STATE HIGHWAY ROUTE 88

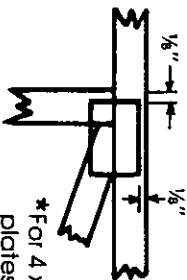


Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



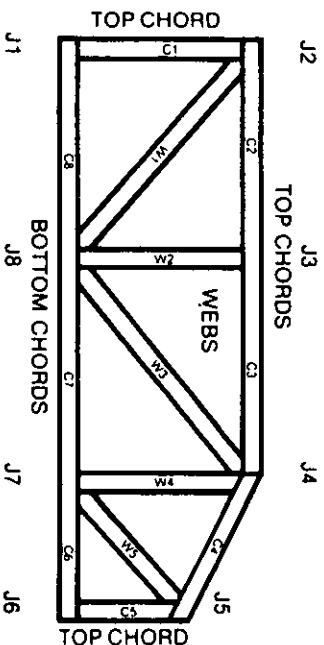
Indicates location of required continuous lateral bracing.



BEARING

Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARHEST TO THE LEFT. WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	ICB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties..
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and/or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

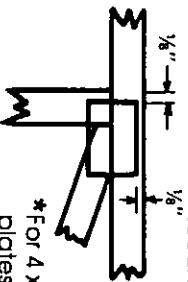
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Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates $\frac{1}{8}$ " from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



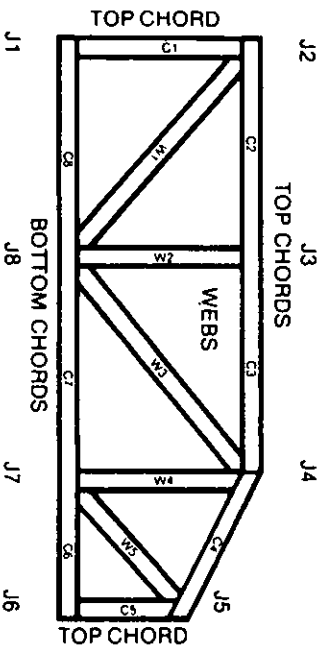
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARHEST TO THE LEFT. WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	TCB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties..
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at $\frac{1}{4}$ panel length (± 6 " from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and/or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or piece without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

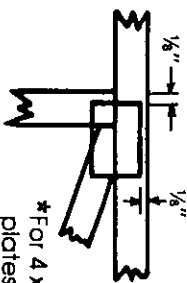
© 1993 Mitek Holdings, Inc.

Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



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* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



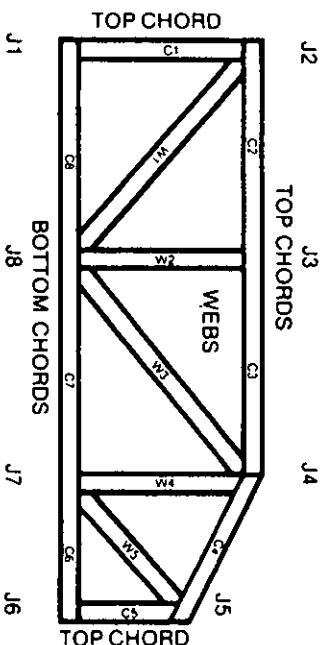
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CONNECTOR PLATE CODE APPROVALS

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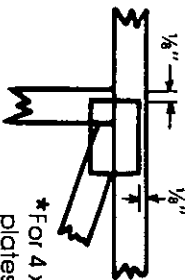
© 1993 Mitek Holdings, Inc.

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LATERAL BRACING



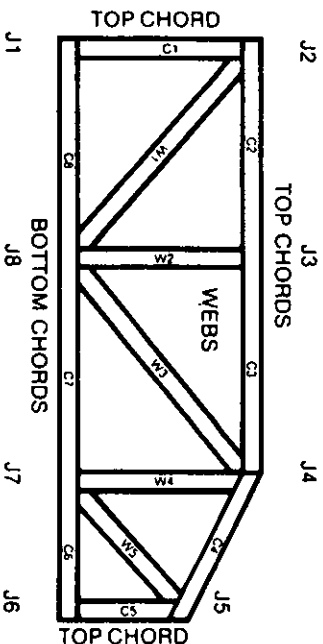
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BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



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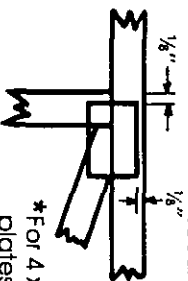
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Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



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PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



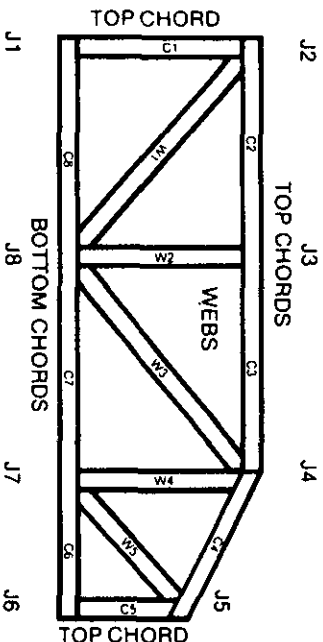
Indicates location of required continuous lateral bracing.



BEARING

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Numbering System



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CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	TCB 17.08
ICBO	1591, 1329, 4922
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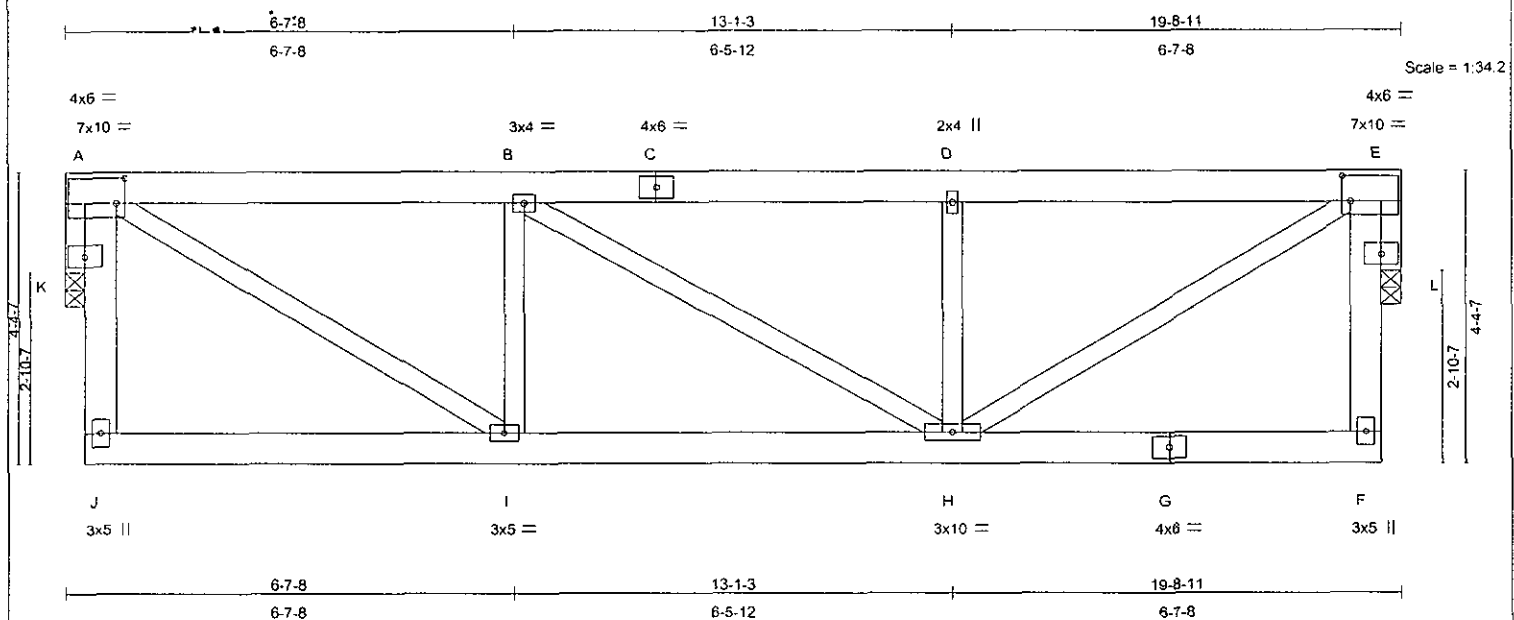


Plate Offsets (X,Y): [A:0-1-8,0-4-8], [E:0-1-8,0-4-8]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	PLATES	GRIP
TCLL 38.0	Plates Increase	1.15	TC 0.34	Vert(LL)	-0.07	H-I > 999	MH20	249/190
TCDL 7.0	Lumber Increase	1.15	BC 0.47	Vert(TL)	-0.11	H-I > 999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.63	Horz(TL)	-0.03	L n/a		
BCDL 10.0	Code	BOCA/ANSI95	(Matrix)	1st LC LL Min l/defl	= 360		Weight: 301 lb	

LUMBER
 TOP CHORD 2 X 6 SYP No.2
 BOT CHORD 2 X 6 SYP No.2
 WEBS 2 X 4 SYP No.3 *Except*
 A-J 2 X 6 SYP No.2, E-F 2 X 6 SYP No.2
 OTHERS 2 X 4 SYP No.2

BRACING
 TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) K=2891/0-3-8, L=2888/0-3-8
 Max Horz K=182(load case 3)
 Max Uplift K=-178(load case 3), L=-177(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD J-K=579, A-K=-2251, A-B=-3225, B-C=-3221, C-D=-3221, D-E=-3221, F-L=581, E-L=-2246
 BOT CHORD I-J=138, H-I=3225, G-H=140, F-G=140
 WEBS B-I=-649, D-H=-647, A-I=3628, B-H=-5, E-H=3621

NOTES (7-8)

- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95. If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Bearing at joint(s) K, L considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint K and 177 lb uplift at joint L.
- 5) This truss has been designed with ANSI/TPI 1-1995 criteria.
- 6) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
 Top chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
 Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- 7) N/A
- 8) Trusses intersecting bottom chord to be connected with Kant-Sag THD26/2ply/2x6 (SYP/DF 1.15Dn 1.33Up) or equivalent. This connection supports a maximum download of 2795 lb and a maximum uplift of 1520 lb. Follow Kant-Sag installation recommendations for hanger connection.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase = 1.15, Plate Increase = 1.15
 Uniform Loads (plf)
 Vert: F-J = -196.5, A-K = 14.0, A-E = -110.0

December 2, 2002

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling, Installing and Bracing Recommendation available from Truss Plate Institute, 583 D'Oroville Drive, Madison, WI 53719.

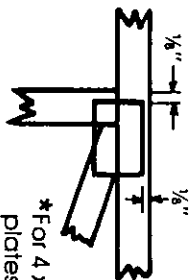


Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates $\frac{1}{8}$ " from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



Indicates location of required continuous lateral bracing.

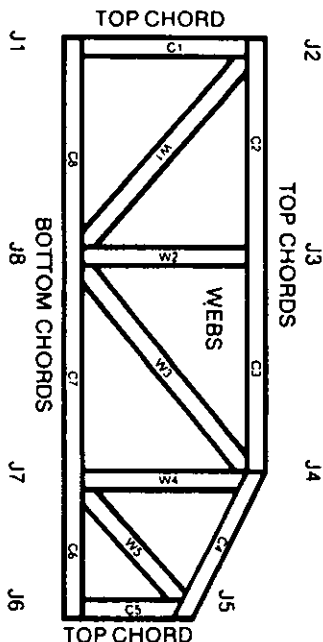
BEARING



Indicates location of joints at which bearings (supports) occur.

FORM018.019

Numbering System



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CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	ICB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties..
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at $\frac{1}{4}$ panel length (± 6 " from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
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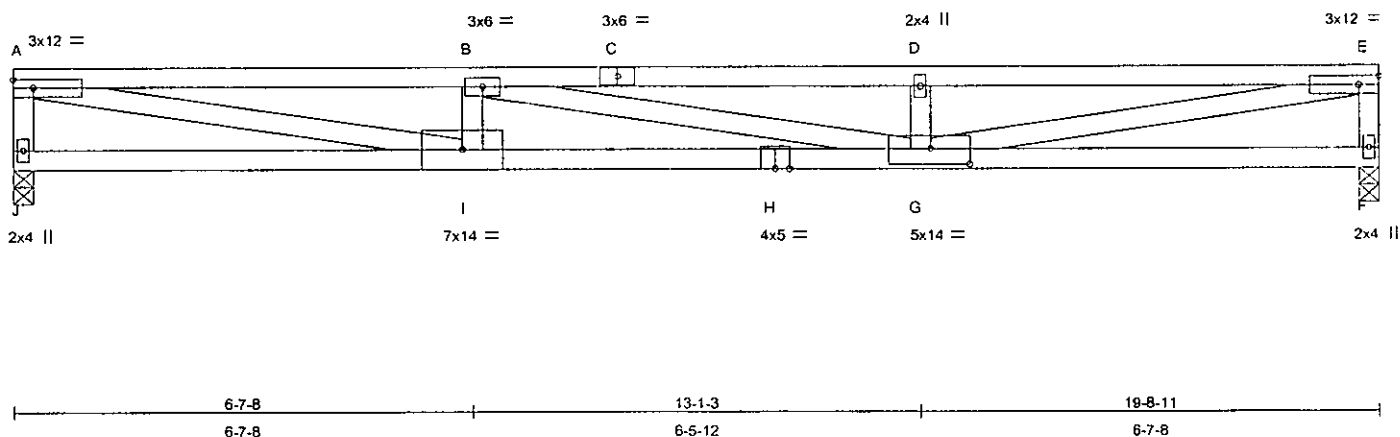
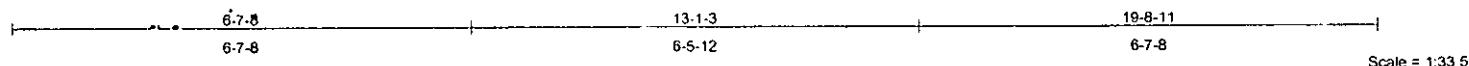


Plate Offsets (X,Y): (G:0-6-12,0-2-12)

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl	PLATES	GRIP
TCLL 38.0	Plates Increase 1.15	TC 0.81	Vert(LL) -0.37 1 >625	MI20	249/190
TCDL 7.0	Lumber Increase 1.15	BC 0.97	Vert(TL) -0.58 G-1 >401		
BCLL 0.0	Rep Stress Incr YES	WB 0.78	Horz(TL) 0.04 F n/a		
BCDL 10.0	Code BOCA/ANSI95		1st LC LL Min l/defl = 360	Weight: 92 lb	

LUMBER
 TOP CHORD 2 X 4 SYP DSS
 BOT CHORD 2 X 4 SYP No.2
 WEBS 2 X 4 SYP No.3 *Except*
 A-I 2 X 4 SYP No.2, B-G 2 X 4 SYP No.2, E-G 2 X 4 SYP No.2

BRACING
 TOP CHORD Sheathed or 2-8-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) J = 1069/0-3-8, F = 1069/0-3-8
 Max Horz J = 56(load case 3)
 Max Uplift J = -48(load case 2), F = -49(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD A-J = -1004, A-B = -3820, B-C = -3820, C-D = -3820, D-E = -3820, E-F = -1004
 BOT CHORD I-J = -0, H-I = 3820, G-H = 3820, F-G = 0
 WEBS B-I = -583, D-G = -583, A-I = 3885, B-G = 0, E-G = 3885

- NOTES**
- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint J and 49 lb uplift at joint F.
 - 4) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

December 2, 2002

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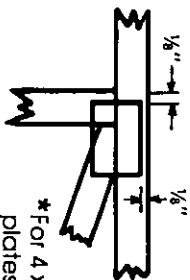


Symbols

PLATE LOCATION AND ORIENTATION



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* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

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PLATE SIZE

4 X 4

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LATERAL BRACING



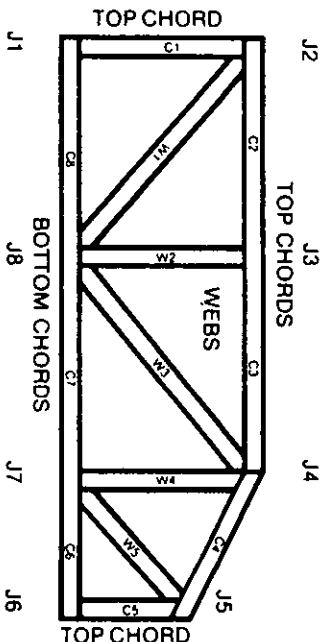
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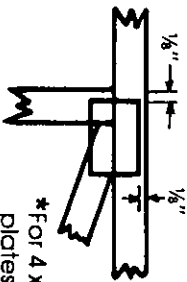
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Symbols

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* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



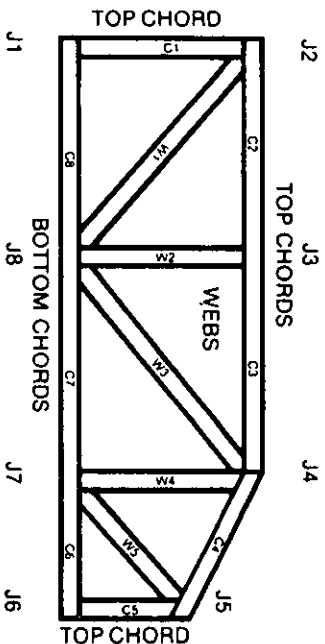
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT. WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	ICB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19 % at time of fabrication.
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15. Care should be exercised in handling, erection and installation of trusses.

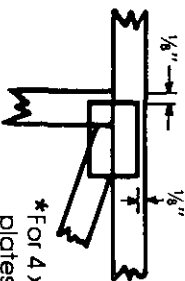
© 1993 Mitek Holdings, Inc.

Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

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4 X 4

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LATERAL BRACING



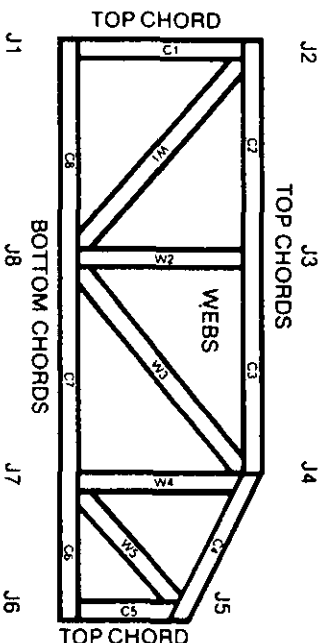
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Job	Truss	Truss Type	Qty	Ply	FAMOUS DAVE'S RESTAURANT - BRICK	14181028
02S174	T-32	SLOPING FLAT	1	2	(optional)	

Truss Systems Incorporated, Adelphia, NJ. 07710, MiTek Industries 4.201 SR1 s Oct 17 2002 MiTek Industries, Inc. Mon Nov 25 14:53:06 2002 Page 1

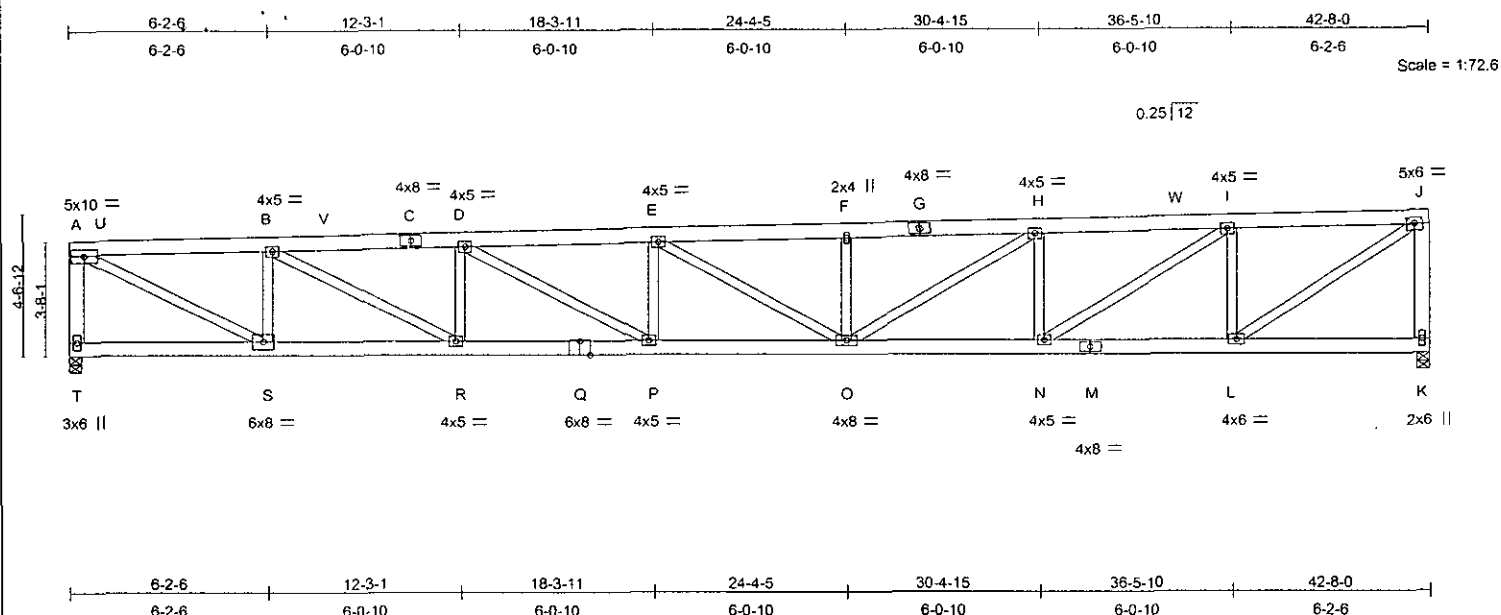


Plate Offsets (X,Y): [Q:0-4-0,Edge]

LOADING (psf)	SPACING	CSI	DEFL	in (loc)	l/defl	PLATES	GRIP
TCLL 38.0	Plates Increase 3-0-0	TC 0.83	Vert(LL) -0.54	O-P > 945		MII20	249/190
TCDL 7.0	Lumber Increase 1.15	BC 0.84	Vert(TL) -0.78	O-P > 652			
BCDL 0.0	Rep Stress Incr NO	WB 0.81	Horz(TL) 0.13	K n/a			
BCDL 10.0	Code BOCA/ANSI95	(Matrix)	1st LC LL Min l/defl = 360			Weight: 622 lb	

LUMBER
 TOP CHORD 2 X 6 SYP No.2
 BOT CHORD 2 X 6 SYP No.1
 WEBS 2 X 4 SYP No.3 *Except*
 A-T 2 X 6 SYP No.1, J-K 2 X 6 SYP No.2, A-S 2 X 4 SYP No.1
 J-L 2 X 4 SYP No.2

BRACING
 TOP CHORD Sheathed or 4-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) T=6991/0-4-8, K=4185/0-4-8
 Max Horz T=282(load case 3)
 Max Uplift T=-404(load case 2), K=-218(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD A-T=-6729, A-U=-9720, B-U=-9684, B-V=-12207, C-V=-12177, C-D=-12174, D-E=-12821, E-F=-11778, F-G=-11778, G-H=-11770, H-W=-9255, I-W=-9239, I-J=-5376, J-K=-4034
 BOT CHORD S-T=802, R-S=9682, Q-R=12174, P-Q=12174, O-P=12810, N-O=9245, M-N=5365, L-M=5365, K-L=221
 WEBS B-S=-4826, D-R=-1138, E-P=-194, F-O=-810, H-N=-2352, I-L=-3414, A-S=10089, B-R=2847, O-P=732, E-O=-1212, H-O=2989, I-N=4641, J-L=6238

NOTES (6-7)

- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- 2) Provide adequate drainage to prevent water ponding.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint T and 218 lb uplift at joint K.
- 4) This truss has been designed with ANSI/TPI 1-1995 criteria.
- 5) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
 Top chords connected as follows: 2 X 6 - 2 rows at 0-8-0 oc.
 Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase = 1.15, Plate Increase = 1.15
 Uniform Loads (plf)
 Vert: K-T=-30.0, A-U=-135.0, U-V=-689.5, V-W=-135.0
 Trapezoidal Loads (plf)
 Vert: W=-136.0-to-J=-219.0

December 2, 2002

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult QST-88 Quality Standard, D58-89 Bracing Specification, and H18-91 Handling, Installing and Bracing Recommendation available from Truss Plate Institute, 583 D'Oroville Drive, Madison, WI 53719.

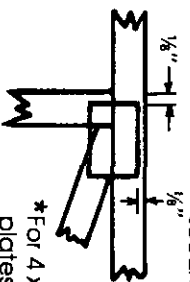


Symbols

PLATE LOCATION AND ORIENTATION



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*For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



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PLATE SIZE

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LATERAL BRACING



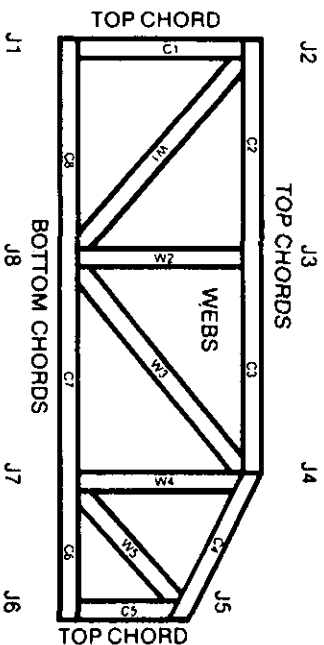
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HUD/FHA	ICB 17.08
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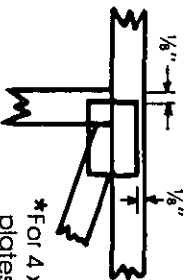
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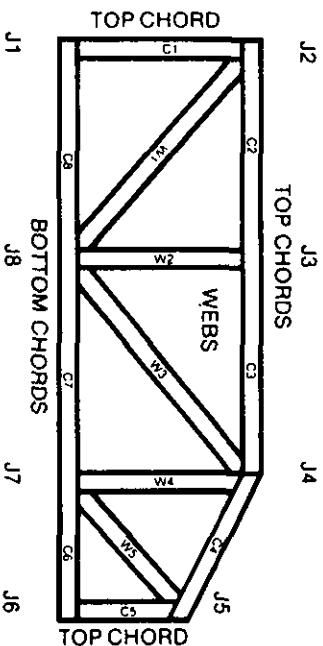
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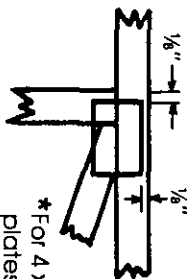
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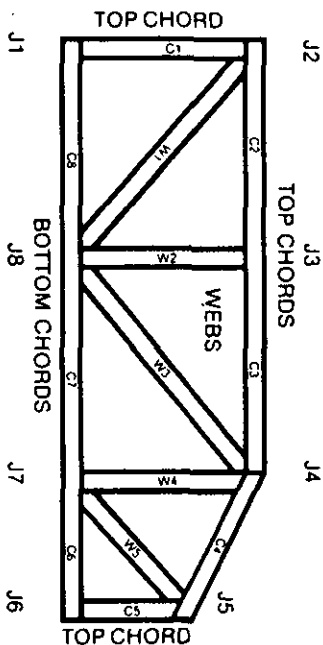
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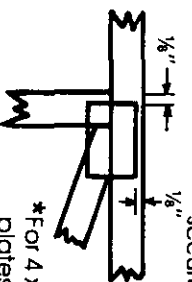
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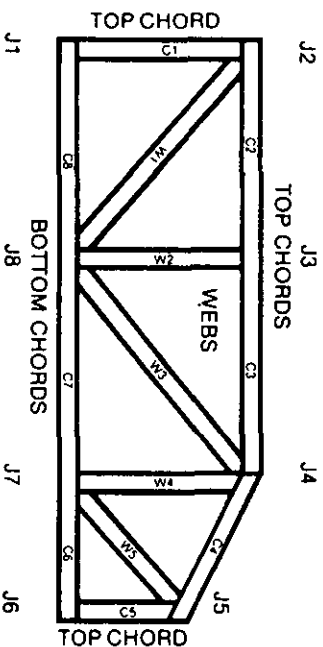
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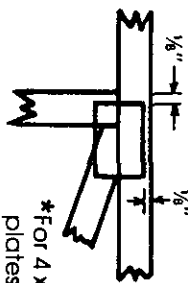
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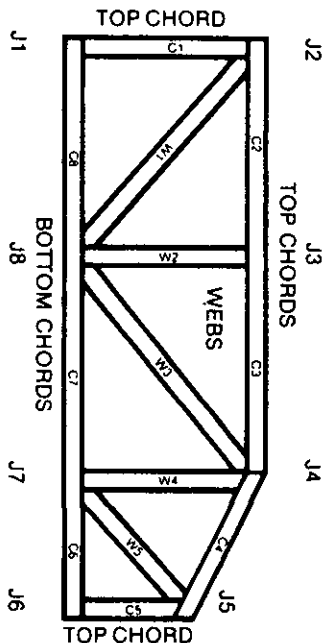
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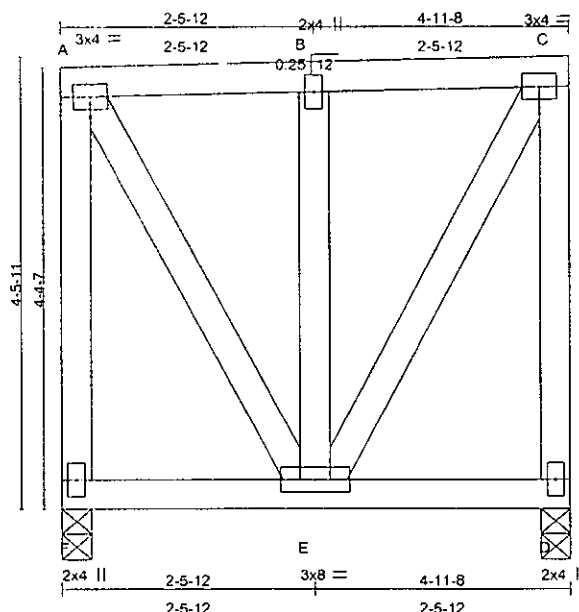
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Job 02S174	Truss T-4	Truss Type SLOPING FLAT	Qty 1	Ply 1	FAMOUS DAVE'S RESTAURANT - BRICK	I4181030
Truss Systems Incorporated, Adelphia, NJ. 07710, MiTek Industries			4.201	SR1 s Oct 17 2002 MiTek Industries, Inc.	Mon Nov 25 14:53:08 2002	Page 1



Scale = 1:22.5

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc)	I/defl	PLATES	GRIP
TCLL 38.0	Plates Increase 1.15	TC 0.21	Vert(LL) -0.00 E	>999	MI20	249/190
TCDL 7.0	Lumber Increase 1.15	BC 0.03	Vert(TL) -0.00 E	>999		
BCLL 0.0	Rep Stress Incr NO	WB 0.11	Horz(TL) -0.00 D	n/a		
BCDL 10.0	Code BOCA/ANSI95		1st LC LL Min I/defl = 360		Weight: 45 lb	

LUMBER
 TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 WEBS 2 X 4 SYP No.3

BRACING
 TOP CHORD Sheathed or 4-11-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) F=353/0-3-8, D=403/0-3-8
 Max Horz F=194(load case 3)
 Max Uplift F=-19(load case 2), D=-109(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD A-F=-330, A-B=-107, B-C=-107, C-D=-380
 BOT CHORD E-F=0, D-E=0
 WEBS B-E=-331, A-E=215, C-E=219

NOTES (5)

- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- 2) Provide adequate drainage to prevent water ponding.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint F and 109 lb uplift at joint D.
- 4) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase = 1.15, Plate Increase = 1.15
 Uniform Loads (plf)
 Vert: D-F=-20.0
 Trapezoidal Loads (plf)
 Vert: A=-110.0-to-C=-174.0

December 2, 2002

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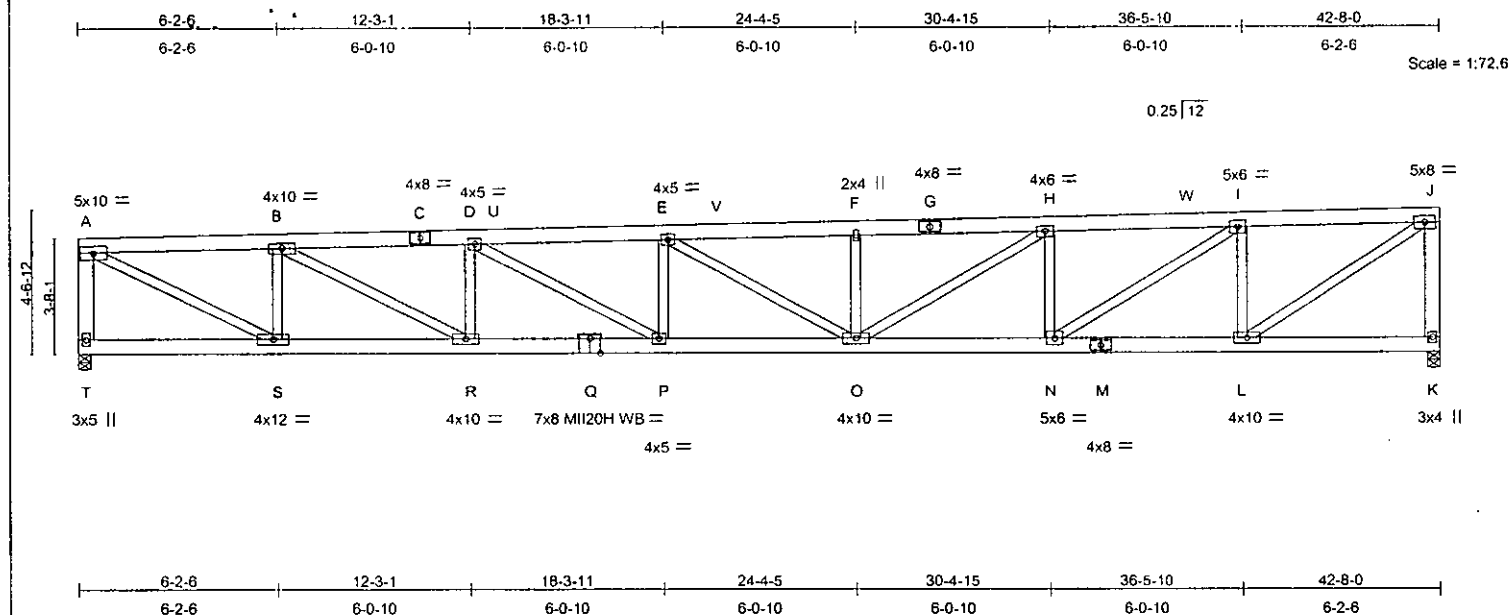


Plate Offsets (X,Y): [0:0-4-0,Edge]					
LOADING (psf)	SPACING	3-0-0	CSI	DEFL	PLATES
TCLL 38.0	Plates Increase	1.15	TC 0.98	in (loc) l/defl	GRIP
TCDL 7.0	Lumber Increase	1.15	BC 0.80	Vert(LL) -0.71 O-P >709	MII20
BCLL 0.0	Rep Stress Incr	NO	WB 0.90	Vert(TL) -1.03 O-P >490	MII20H
BCDL 10.0	Code	BOCA/ANSI95	(Matrix)	Horz(TL) 0.16 K n/a	187/143
				1st LC LL Min l/defl = 360	Weight: 622 lb

LUMBER
 TOP CHORD 2 X 6 SYP No.1D
 BOT CHORD 2 X 6 SYP DSS
 WEBS 2 X 4 SYP No.3 *Except*
 A-T 2 X 6 SYP No.2, J-K 2 X 6 SYP No.2, A-S 2 X 4 SYP No.1
 B-R 2 X 4 SYP No.2, I-N 2 X 4 SYP No.2, J-L 2 X 4 SYP No.2

BRACING
 TOP CHORD Sheathed or 2-0-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) T=5888/0-4-8, K=5288/0-4-8
 Max Horz T=282(load case 3)
 Max Uplift T=-326(load case 2), K=-297(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD A-T=-5692, A-B=-9607, B-C=-17266, C-D=-17253, D-U=-20291, E-U=-20257, E-V=-17106, F-V=-17076,
 F-G=-17084, G-H=-17076, H-W=-12705, I-W=-12693, I-J=-7010, J-K=-5116
 BOT CHORD S-T=387, R-S=9594, Q-R=17260, P-Q=17260, O-P=20252, N-O=12694, M-N=6998, L-M=6998,
 K-L=259
 WEBS B-S=-4889, D-R=-4027, E-P=-1584, F-O=-700, H-N=-3533, I-L=-4536, A-S=10460, B-R=8757,
 D-P=3449, E-O=-3698, H-O=5188, I-N=6813, J-L=8173

- NOTES (7-8)**
- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) All plates are MII20 plates unless otherwise indicated.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 326 lb uplift at joint T and 297 lb uplift at joint K.
 - 5) This truss has been designed with ANSI/TPI 1-1995 criteria.
 - 6) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
 Top chords connected as follows: 2 X 6 - 2 rows at 0-8-0 oc.
 Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: K-T=-30.0, A-U=-135.0, U-V=-689.5, V-W=-135.0
 Trapezoidal Loads (plf)
 Vert: W=-136.0-to-J=-219.0

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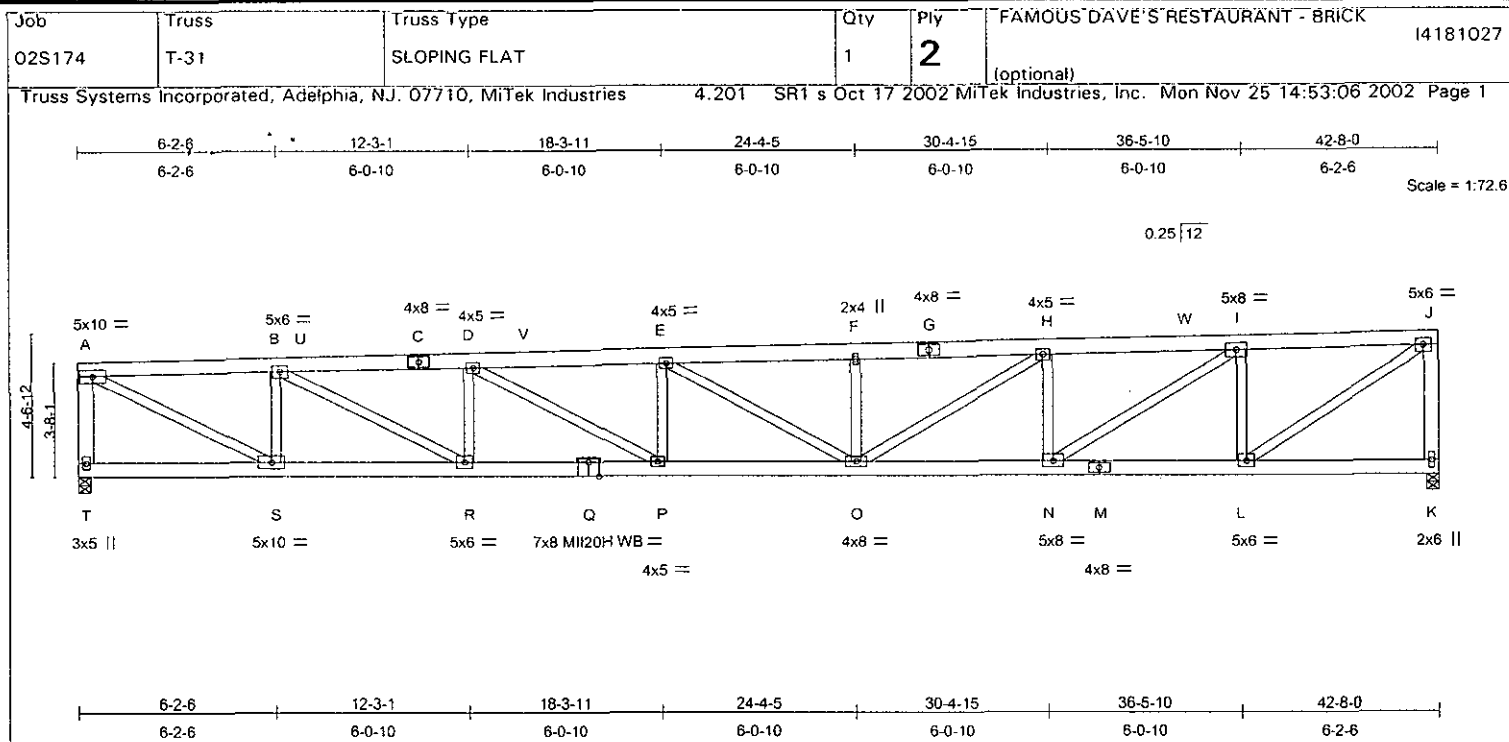


Plate Offsets (X,Y): (0,0-4-0,Edge)

LOADING (psf)	SPACING	3-0-0	CSI	DEFL	in	(loc)	l/defl	PLATES	GRIP
TCLL 38.0	Plates Increase	1.15	TC 0.93	Vert(LL)	-0.64	O-P	> 793	MI20	249/190
TCDL 7.0	Lumber Increase	1.15	BC 0.68	Vert(TL)	-0.92	O-P	> 548	MI20H	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 1.00	Horz(TL)	0.14	K	n/a		
BCDL 10.0	Code	BOCA/ANSI95	(Matrix)	1st LC LL Min l/defl	=	360		Weight: 622 lb	

LUMBER
 TOP CHORD 2 X 6 SYP No.1
 BOT CHORD 2 X 6 SYP DSS
 WEBS 2 X 4 SYP No.3 *Except*
 A-T 2 X 6 SYP No.2, J-K 2 X 6 SYP No.2, A-S 2 X 4 SYP No.1
 B-R 2 X 4 SYP No.2, J-L 2 X 4 SYP No.2

BRACING
 TOP CHORD Sheathed or 2-5-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) T=6440/0-4-8, K=4736/0-4-8
 Max Horz T=282(load case 3)
 Max Uplift T=-365(load case 2), K=-258(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD A-T=-6235, A-B=-10905, B-U=-17071, C-U=-17037, C-D=-17016, D-V=-16501, E-V=-16471,
 E-F=-14446, F-G=-14447, G-H=-14438, H-W=-10970, I-W=-10954, I-J=-6199, J-K=-4576
 BOT CHORD S-T=284, R-S=10897, Q-R=17033, P-Q=17033, O-P=16467, N-O=10959, M-N=6187, L-M=6187,
 K-L=240
 WEBS B-S=-5649, D-R=-3235, E-P=532, F-O=-840, H-N=-2931, I-L=-3977, A-S=12056, B-R=7010, D-P=-652,
 E-O=-2364, H-O=4118, I-N=5708, J-L=7214

- NOTES (7-8)**
- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category 1, condition 1 enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33 and the plate grip increase is 1.33
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) All plates are MI20 plates unless otherwise indicated.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 365 lb uplift at joint T and 258 lb uplift at joint K.
 - 5) This truss has been designed with ANSI/TPI 1-1995 criteria.
 - 6) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
 Top chords connected as follows: 2 X 6 - 2 rows at 0-8-0 oc.
 Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase = 1.15, Plate Increase = 1.15
 Uniform Loads (plf)
 Vert: K-T=-30.0, A-U=-135.0, U-V=-689.5, V-W=-135.0
 Trapezoidal Loads (plf)
 Vert: W=-136.0-to-J=-219.0

December 2, 2002

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Job	Truss	Truss Type	Qty	Ply	FAMOUS DAVE'S RESTAURANT - BRICK	14181036
O2S174	T-72	COMMON	1	1	(optional)	
Truss Systems Incorporated, Adelphia, NJ. 07710, MiTek Industries 4.201 SR1 s Oct 17 2002 MiTek Industries, Inc. Mon Nov 25 14:53:11 2002 Page 1						

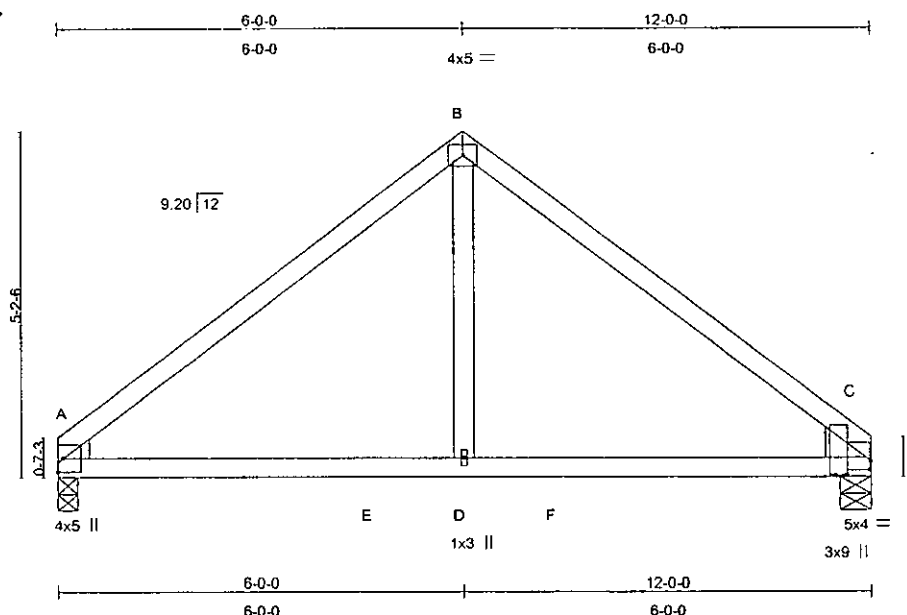


Plate Offsets (X,Y): (C:0-0-4,0-1-10), (C:0-4-4,0-2-8)

LOADING (psf)	SPACING	2'-0"	CSI	DEFL	in	(loc)	l/defl	PLATES	GRIP
TCLL 38.0	Plates Increase	1.15	TC 0.45	Vert(LL)	-0.06	A-D	>999	MII20	249/190
TCDL 7.0	Lumber Increase	1.15	BC 0.43	Vert(TL)	-0.09	A-D	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.11	Horz(TL)	0.01	C	n/a		
BCDL 10.0	Code	BOCA/ANSI95	(Matrix)	1st LC LL Min l/defl	=	360		Weight: 50 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
 BOT CHORD 2 X 4 SYP No.2
 WEBS 2 X 4 SYP No.3
 WEDGE
 Left: 2 X 4 SYP No.3, Right: 2 X 6 SYP No.2

BRACING

TOP CHORD Sheathed or 6'-0" oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS (lb/size) A=693/0-3-8, C=694/0-5-8
 Max Horz A=-152(load case 2)
 Max Uplift A=-28(load case 4), C=-28(load case 4)

FORCES (lb) - First Load Case Only

TOP CHORD A-B=-846, B-C=-848
 BOT CHORD A-E=537, D-E=537, D-F=537, C-F=537
 WEBS B-D=307

NOTES

- 1) This truss has been checked for unbalanced loading conditions.
- 2) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3'-6" between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint A and 28 lb uplift at joint C.
- 5) This truss has been designed with ANSI/TPI 1-1995 criteria.

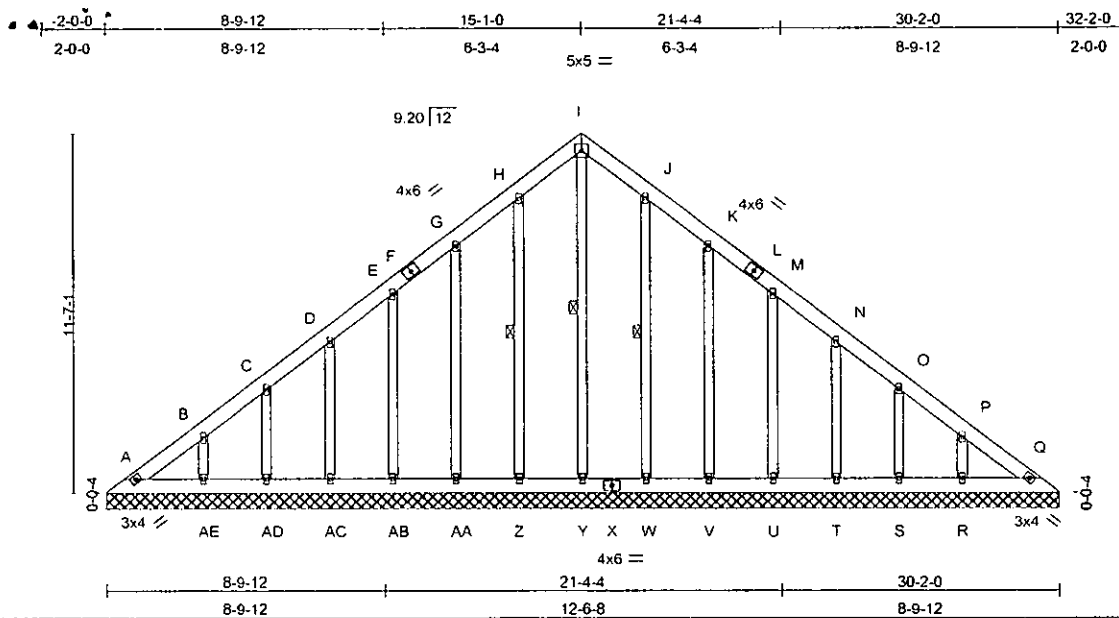
LOAD CASE(S) Standard

December 2, 2002

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LOADING (psf) TCLL 38.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING 2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr YES Code BOCA/ANSI95	CSI TC 0.06 BC 0.03 WB 0.20 (Matrix)	DEFL in (loc) l/defl Vert(LL) n/a - n/a Vert(TL) n/a - n/a Horz(TL) 0.00 Q n/a 1st LC LL Min l/defl = 360	PLATES MH20 Weight: 266 lb	GRIP 249/190
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LUMBER
TOP CHORD 2 X 6 SYP No.2
BOT CHORD 2 X 6 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt I-Y, H-Z, J-W

REACTIONS (lb/size) A=143/30-2-0, X=10/30-2-0, Q=143/30-2-0, Y=159/30-2-0, Z=211/30-2-0, AA=223/30-2-0, AB=220/30-2-0, AC=224/30-2-0, AD=202/30-2-0, AE=284/30-2-0, W=205/30-2-0, V=224/30-2-0, U=219/30-2-0, T=224/30-2-0, S=202/30-2-0, R=284/30-2-0
Max Horz A=-346(load case 2)
Max Uplift A=-96(load case 2), Q=-32(load case 3), Z=-37(load case 3), AA=-48(load case 4), AB=-40(load case 4), AC=-40(load case 3), AD=-36(load case 4), AE=-50(load case 3), W=-18(load case 2), V=-48(load case 4), U=-40(load case 4), T=-39(load case 2), S=-36(load case 4), R=-50(load case 2)
Max Grav A=184(load case 3), X=10(load case 6), Q=143(load case 1), Y=159(load case 1), Z=217(load case 5), AA=225(load case 5), AB=220(load case 1), AC=224(load case 1), AD=202(load case 5), AE=284(load case 5), W=210(load case 6), V=226(load case 6), U=219(load case 1), T=224(load case 1), S=202(load case 6), R=284(load case 6)

FORCES (lb) - First Load Case Only
TOP CHORD A-B=-118, B-C=-115, C-D=-110, D-E=-111, E-F=-111, F-G=-56, G-H=-113, H-I=-107, I-J=-107, J-K=-113, K-L=-56, L-M=-111, M-N=-111, N-O=-110, O-P=-115, P-Q=-118
BOT CHORD A-AE=44, AD-AE=44, AC-AD=44, AB-AC=44, AA-AB=44, Z-AA=44, Y-Z=44, X-Y=44, W-X=44, V-W=44, U-V=44, T-U=44, S-T=44, R-S=44, Q-R=44
WEBS I-Y=-126, H-Z=-170, G-AA=-183, E-AB=-180, D-AC=-181, C-AD=-172, B-AE=-214, J-W=-170, K-V=-183, M-U=-180, N-T=-181, O-S=-172, P-R=-214

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
 - 2) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane coastline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
 - 4) All plates are 2x4 MH20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint A, 32 lb uplift at joint Q, 37 lb uplift at joint Z, 48 lb uplift at joint AA, 40 lb uplift at joint AB, 40 lb uplift at joint AC, 36 lb uplift at joint AD, 50 lb uplift at joint AE, 18 lb uplift at joint W, 48 lb uplift at joint V, 40 lb uplift at joint U, 39 lb uplift at joint T, 36 lb uplift at joint S and 50 lb uplift at joint R.
 - 8) This truss has been designed with ANSI/TPI 1-1995 criteria.

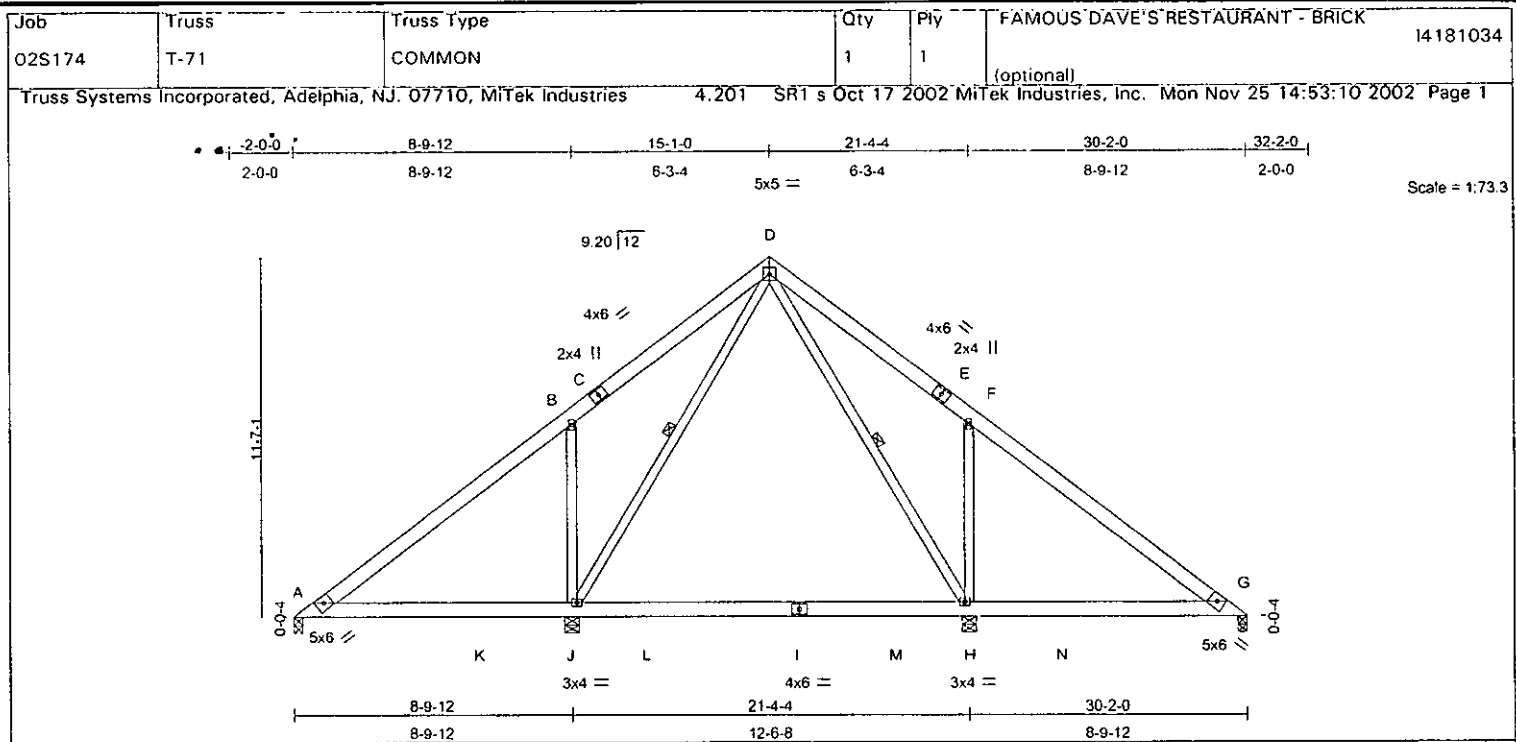
LOAD CASE(S) Standard

December 2, 2002

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LOADING (psf)	SPACING 2-0-0	CSI	DEFL	PLATES	GRIP
TCLL 38.0	Plates Increase 1.15	TC 0.53	Vert(LL) -0.19 in (loc) l/defl	MI20	249/190
TCDL 7.0	Lumber Increase 1.15	BC 0.62	Vert(TL) -0.28 H-J >781		
BCLL 0.0	Rep Stress Incr YES	WB 0.50	Horz(TL) 0.01 G n/a		
BCDL 10.0	Code BOCA/ANSI95	(Matrix)	1st LC LL Min l/defl = 360	Weight: 210 lb	

LUMBER
 TOP CHORD 2 X 6 SYP No.2
 BOT CHORD 2 X 6 SYP No.2
 WEBS 2 X 4 SYP No.3

BRACING
 TOP CHORD Sheathed or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt D-J, D-H

REACTIONS (lb/size) A=416/0-3-8, J=1501/0-5-8, H=1501/0-5-8, G=416/0-3-8
 Max Horz A=-346(load case 2)
 Max Uplift A=-6(load case 2), J=-114(load case 3), H=-90(load case 4)

FORCES (lb) - First Load Case Only
 TOP CHORD A-B=150, B-C=-299, C-D=-252, D-E=-252, E-F=-299, F-G=-306
 BOT CHORD A-K=74, J-K=74, J-L=170, L-I=170, I-M=170, H-M=170, H-N=74, G-N=74
 WEBS B-J=-754, D-J=-194, D-H=-194, F-H=-754

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
 - 2) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint A, 114 lb uplift at joint J and 90 lb uplift at joint H.
 - 5) This truss has been designed with ANSI/TPI 1-1995 criteria.

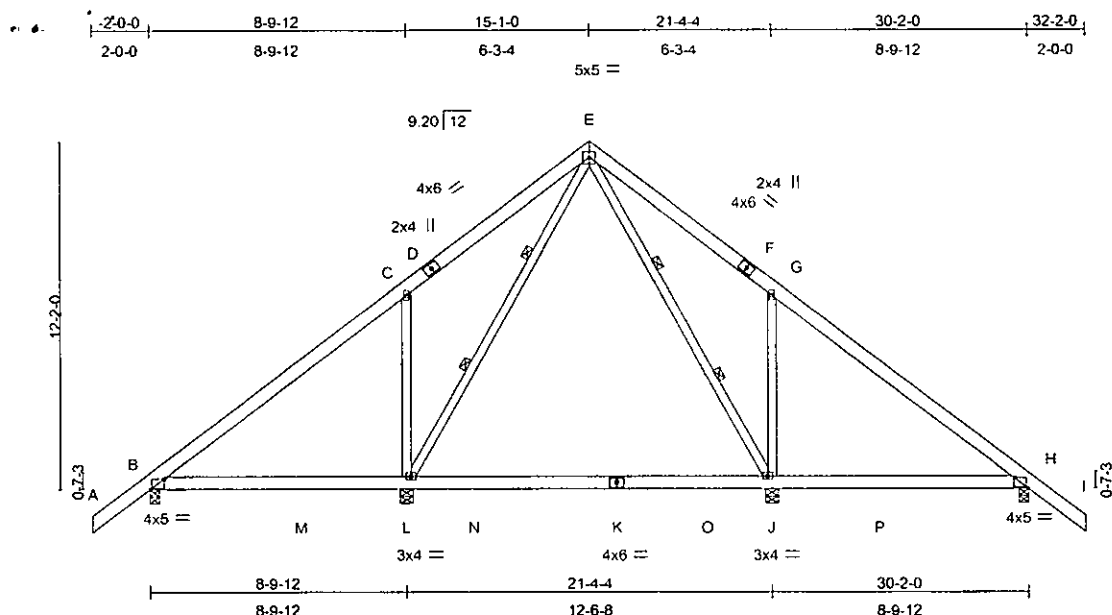
LOAD CASE(S) Standard

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Scale = 1:79.6

Plate Offsets (X,Y): [B:0-5-11,Edge], [H:0-5-11,Edge]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL	in (loc)	I/defl	PLATES	GRIP
TCLL 38.0	Plates Increase 1.15	TC 0.50	Vert(LL) -0.19	J-L > 790		MII20	249/190
TCDL 7.0	Lumber Increase 1.15	BC 0.62	Vert(TL) -0.28	J-L > 535			
BCLL 0.0	Rep Stress Incr YES	WB 0.59	Horz(TL) 0.01	H n/a			
BCDL 10.0	Code BOCA/ANSI95	(Matrix)	1st LC LL Min I/defl = 360			Weight: 230 lb	

LUMBER
 TOP CHORD 2 X 6 SYP No.2
 BOT CHORD 2 X 6 SYP No.2
 WEBS 2 X 4 SYP No.3

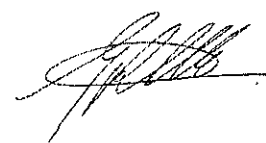
BRACING
 TOP CHORD Sheathed or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 2 Rows at 1/3 pts E-L, E-J

REACTIONS (lb/size) B=660/0-3-8, L=1484/0-5-8, J=1484/0-5-8, H=660/0-3-8
 Max Horz B=410(load case 3)
 Max Uplift B=-80(load case 4), L=-105(load case 3), J=-65(load case 4), H=-80(load case 4)

FORCES (lb) - First Load Case Only
 TOP CHORD A-B=108, B-C=141, C-D=-308, D-E=-261, E-F=-261, F-G=-308, G-H=-342, H-I=108
 BOT CHORD B-M=84, L-M=84, L-N=174, K-N=174, K-O=174, J-O=174, J-P=84, H-P=84
 WEBS C-L=-730, E-L=-190, E-J=-190, G-J=-730

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
 - 2) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 3-6-0 between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint B, 105 lb uplift at joint L, 65 lb uplift at joint J and 80 lb uplift at joint H.
 - 5) This truss has been designed with ANSI/TPI 1-1995 criteria.

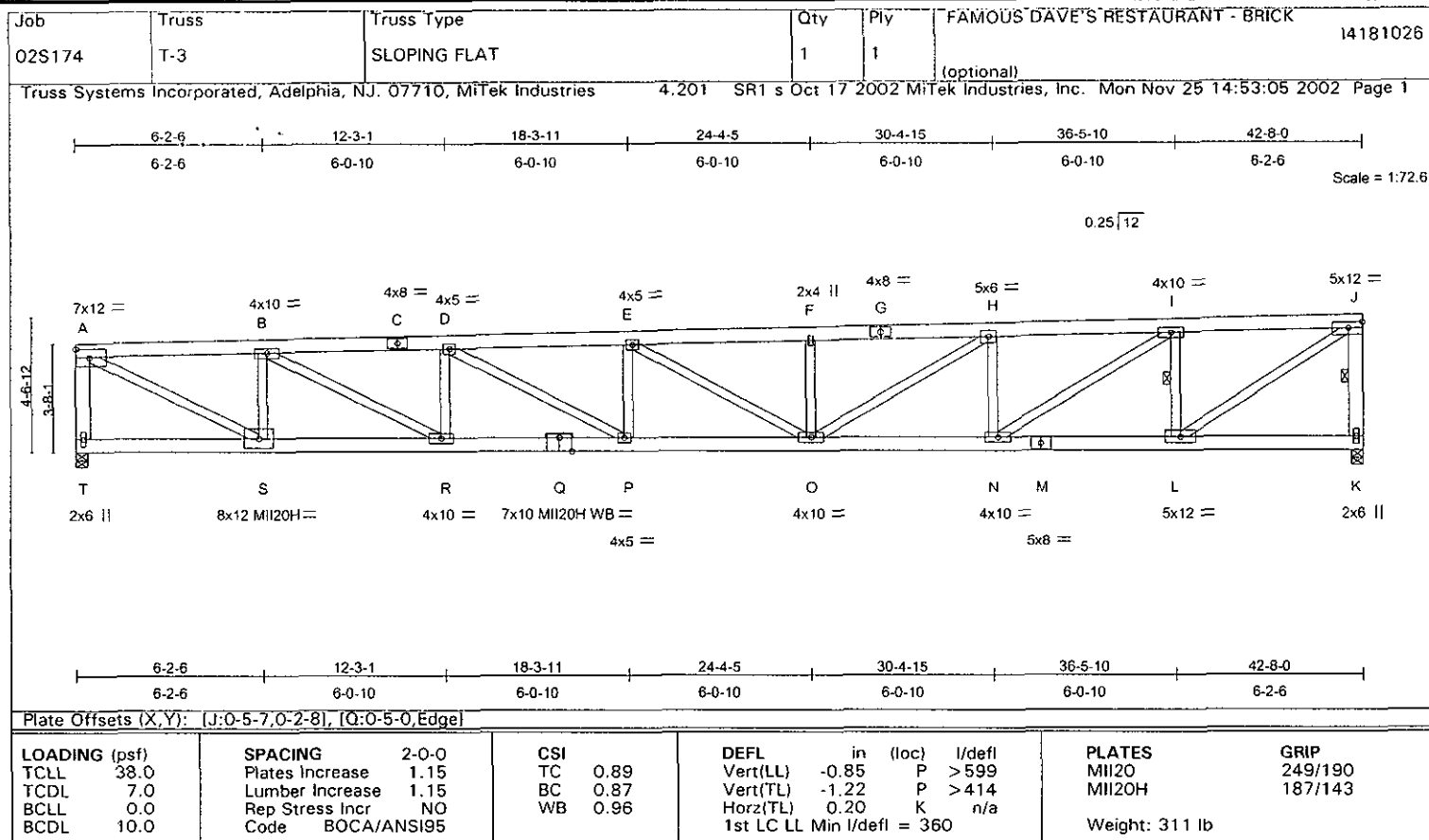
LOAD CASE(S) Standard


 December 2, 2002

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling Installing and Bracing Recommendation available from Truss Plate Institute, 563 D'Onofrio Drive, Madison, WI 53719.

MiTek®



LUMBER

TOP CHORD 2 X 6 SYP DSS

BOT CHORD 2 X 6 SYP DSS

WEBS 2 X 4 SYP No.3 *Except*

A-T 2 X 6 SYP No.2, J-K 2 X 6 SYP No.2, A-S 2 X 4 SYP DSS

B-R 2 X 4 SYP No.2, I-N 2 X 4 SYP No.2, J-L 2 X 4 SYP No.1D

BRACING

TOP CHORD Sheathed or 1-10-2 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-10-14 oc bracing.

WEBS 1 Row at midpt J-K, I-L

REACTIONS (lb/size) T=4094/0-4-8, K=4094/0-4-8

Max Horz T=188(load case 3)

Max Uplift T=-229(load case 2), K=-238(load case 3)

FORCES (lb) - First Load Case Only

TOP CHORD A-T=-4035, A-B=-6280, B-C=-10151, C-D=-10151, D-E=-11773, E-F=-11374, F-G=-11374, G-H=-11374, H-I=-9153, I-J=-5283, J-K=-4035

BOT CHORD S-T=0, R-S=6278, O-R=10149, P-Q=10149, O-P=11771, N-O=9151, M-N=5282, L-M=5282, K-L=0

WEBS B-S=-3264, D-R=-2016, E-P=-808, F-O=-1053, H-N=-2418, I-L=-3505, A-S=7132, B-R=4422, D-P=1869, E-O=-464, H-O=2631, I-N=4628, J-L=6406

NOTES (6)

- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MI20 plates unless otherwise indicated.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint T and 238 lb uplift at joint K.
- 5) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: K-T=-20.0, A-J=-174.0

December 2, 2002

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	FAMOUS DAVE'S RESTAURANT - BRICK	I4181025
02S174	T-22	SLOPING FLAT	1	3	(optional)	

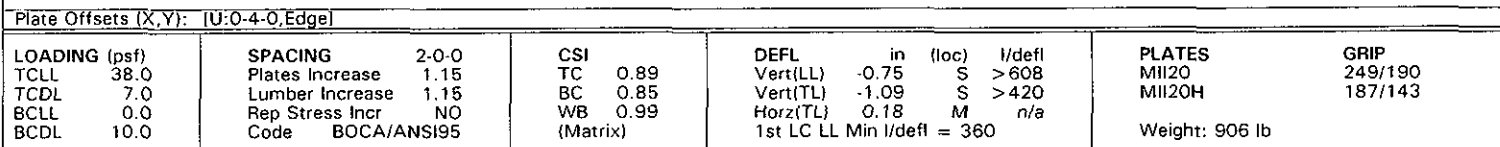
Truss Systems Incorporated, Adelphia, NJ. 07710, MiTek Industries 4.201 SR1 s Oct 17 2002 MiTek Industries, Inc. Mon Nov 25 14:53:04 2002 Page 2

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: J = -2907.0
 Trapezoidal Loads (plf)
 Vert: Y = -625.5-to-J = -650.4, J = -115.9-to-L = -174.0

⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.

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BRACING
TOP CHORD Sheathed or 3-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES (lb) - First Load Case Only	
TOP CHORD	A-X = -12201, A-B = -15882, B-C = -26398, C-D = -26350, D-E = -32234, E-F = -33852, F-G = -33851, G-H = -31699, H-I = -31670, I-Y = -25981, J-Y = -25948, J-K = -16688, K-L = -8357, L-M = -12046
BOT CHORD	W-X = 747, V-W = 15845, U-V = 26362, T-U = 26362, S-T = 32196, R-S = 31663, Q-R = 25943, P-Q = 25943, O-P = 16675, N-O = 8360, M-N = 459
WEBS	A-W = 18256, B-W = -10492, B-V = 12897, D-V = -7315, D-T = 7226, E-T = -4172, E-S = 2023, F-S = -2885, G-S = 2745, G-R = -4547, I-R = 7376, I-P = -7626, J-P = 12073, J-O = -12257, K-O = 14799, K-N = -11734, L-N = 13981

- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are M120 plates unless otherwise indicated.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 835 lb uplift at joint X and 835 lb uplift at joint M.
- 5) This truss has been designed with ANSI/TPI 1-1995 criteria.
- 6) N/A
- 7) 3-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
Top chords connected as follows: 2 X 6 - 3 rows at 0-4-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- 8) Special hanger(s) or connection(s) required to support concentrated load(s) 2907.0lb down and 206.3lb up at 33-0-0 on top chord. Design for unspecified connection(s) is delegated to the building designer.

LOAD IS APPLIED DIRECTLY TO ALL GIRDER
PLIES. CONNECTION IS NOT DESIGNED
TO TRANSFER LOAD FROM FACE PLY TO
ADJACENT PLIES.

December 2, 2002

Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult QSI-88 Quality Standard, DS8-89 Bracing Specification, and H18-91 Handling Installing and Bracing Recommendation available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



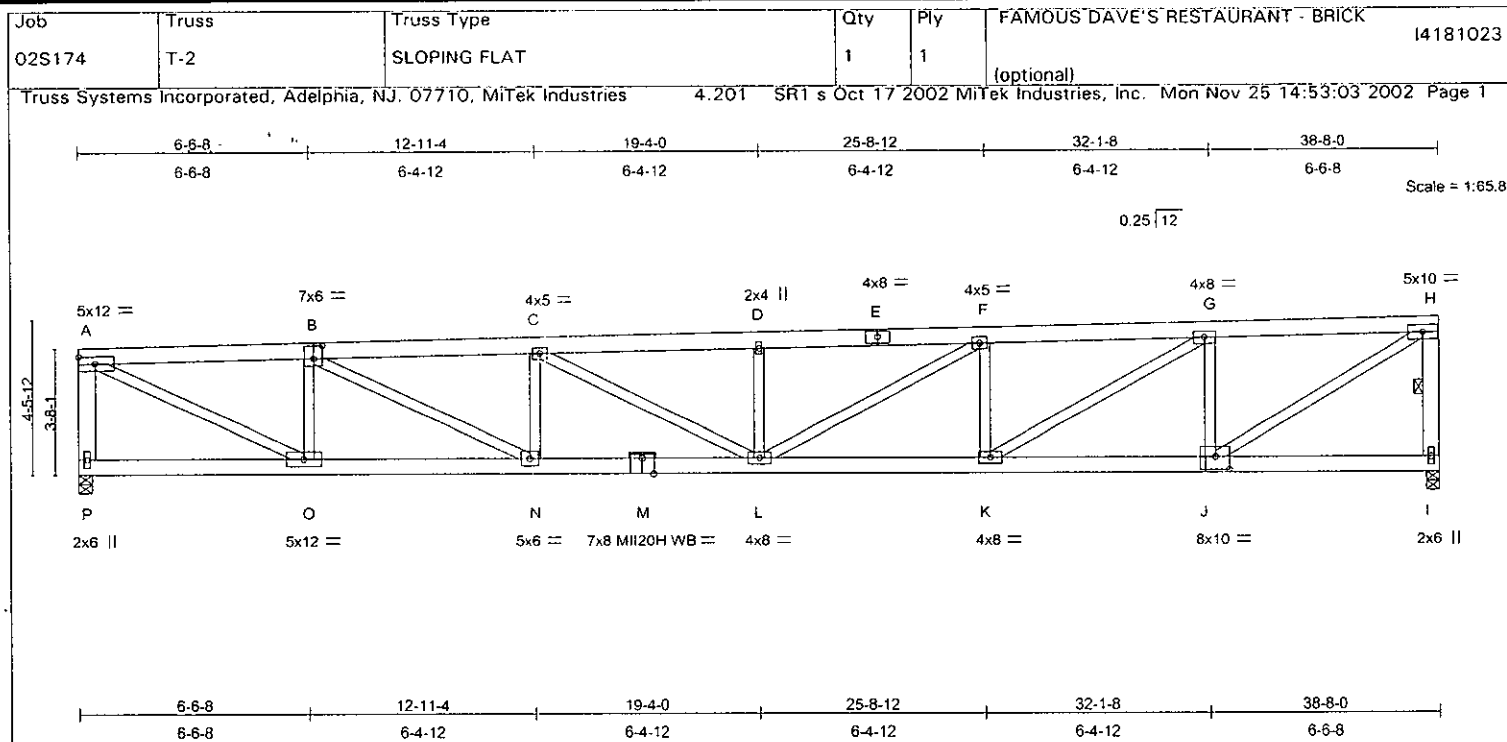


Plate Offsets (X,Y): [B:0-3-0,0-4-8], [J:0-4-12,0-4-8], [M:0-4-0,Edge]

LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl	PLATES	GRIP
TCLL 38.0	Plates Increase 1.15	TC 0.80	Vert(LL) -0.64 L > 721	MI120	249/190
TCDL 7.0	Lumber Increase 1.15	BC 0.69	Vert(TL) -0.92 L > 499	MI120H	187/143
BCLL 0.0	Rep Stress Incr NO	WB 0.98	Horz(TL) 0.14 L n/a		
BCDL 10.0	Code BOCA/ANSI95		1st LC LL Min l/defl = 360	Weight: 280 lb	

LUMBER
 TOP CHORD 2 X 6 SYP DSS
 BOT CHORD 2 X 6 SYP DSS
 WEBS 2 X 4 SYP No.3 *Except*
 A-P 2 X 6 SYP No.2, H-I 2 X 6 SYP No.2, A-O 2 X 4 SYP No.1D
 B-N 2 X 4 SYP No.2, G-K 2 X 4 SYP No.2, H-J 2 X 4 SYP No.1

BRACING
 TOP CHORD Sheathed or 2-1-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt H-I

REACTIONS (lb/size) P=3706/0-4-8, I=3706/0-4-8
 Max Horz P=185(load case 3)
 Max Uplift P=-208(load case 2), I=-217(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD A-P=-3643, A-B=-5809, B-C=-9027, C-D=-9792, D-E=-9792, E-F=-9792, F-G=-8385, G-H=-5132,
 H-I=-3642
 BOT CHORD O-P=-0, N-O=5923, M-N=9025, L-M=9025, K-L=8384, J-K=5032, I-J=0
 WEBS B-O=-2836, C-N=-1533, D-L=-1113, F-K=-1908, G-J=-3074, A-O=6519, B-N=3518, C-L=871, F-L=1630,
 G-K=3921, H-J=6047

NOTES (6)

- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MI120 plates unless otherwise indicated.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint P and 217 lb uplift at joint I.
- 5) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase = 1.15, Plate Increase = 1.15
 Uniform Loads (plf)
 Vert: I-P=-20.0, A-H=-174.0

December 2, 2002

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Job	Truss	Truss Type	Qty	Ply	FAMOUS DAVE'S RESTAURANT - BRICK	I4181024
02S174	T-21	SLOPING FLAT	1	2	(optional)	

Truss Systems Incorporated, Adelphia, NJ. 07710, MiTek Industries 4.201 SR1 s Oct 17 2002 MiTek Industries, Inc. Mon Nov 25 14:53:04 2002 Page 1

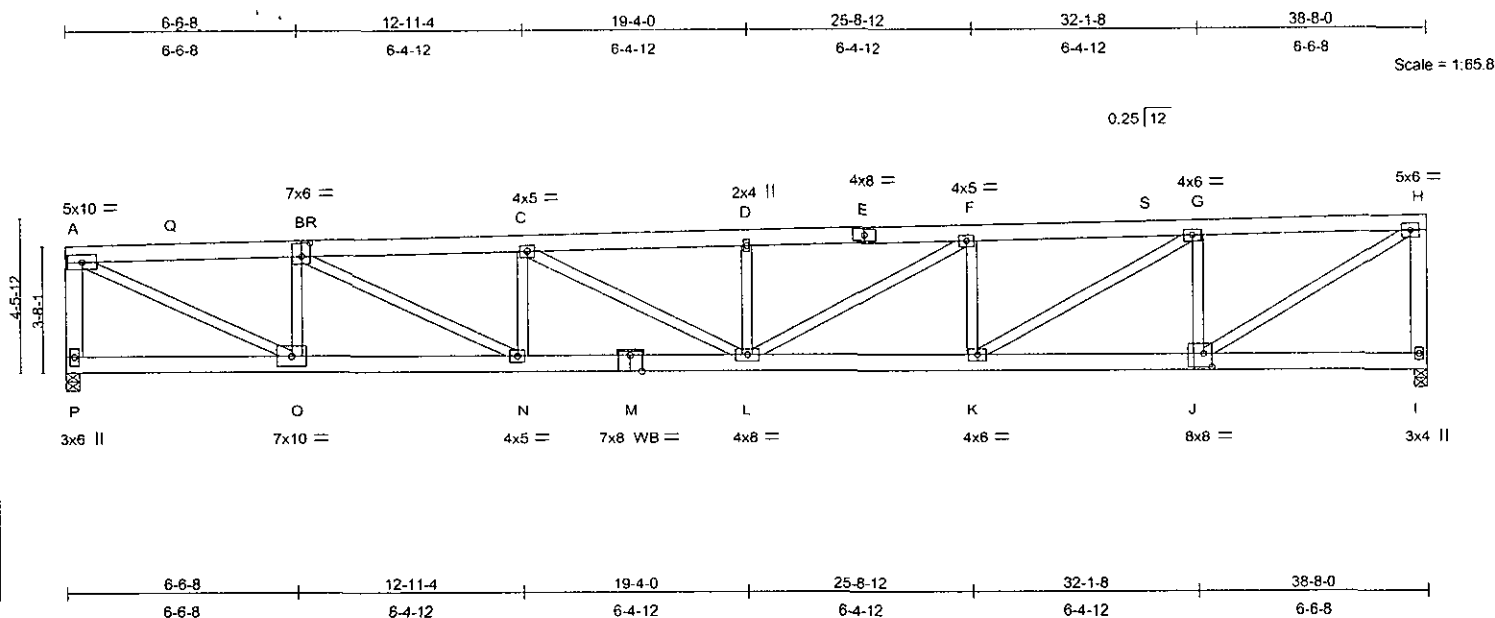


Plate Offsets (X,Y): [B:0-3-0,0-4-8], [J:0-2-12,0-4-8], [M:0-4-0,Edge]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 38.0	4-0-0	TC 0.93	in (loc) l/defl	MI20	249/190
TCDL 7.0	Plates Increase 1.15	BC 0.82	Vert(LL) -0.48 L > 954		
BCLL 0.0	Lumber Increase 1.15	WB 0.99	Vert(TL) -0.69 L-N > 660		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.11 l n/a		
	Code BOCA/ANSI95		1st LC LL Min l/defl = 360	Weight: 560 lb	

LUMBER
 TOP CHORD 2 X 6 SYP No.2
 BOT CHORD 2 X 6 SYP No.1
 WEBS 2 X 4 SYP No.3 *Except*
 A-P 2 X 6 SYP No.2, H-I 2 X 6 SYP No.2, A-O 2 X 4 SYP No.2
 H-J 2 X 4 SYP No.2

BRACING
 TOP CHORD Sheathed or 3-10-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) P=6167/0-4-8, I=4787/0-4-8
 Max Horz P=369(load case 3)
 Max Uplift P=-327(load case 2), I=-248(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD A-P=-5890, A-Q=-9503, B-Q=-9477, B-R=-12450, C-R=-12445, C-D=-12816, D-E=-12817, E-F=-12804,
 F-S=-10737, G-S=-10716, G-H=-6628, H-I=-4588
 BOT CHORD O-P=725, N-O=9654, M-N=12429, L-M=12429, K-L=10723, J-K=6491, I-J=298
 WEBS B-O=-4402, C-N=-1174, D-L=-1194, F-K=-2297, G-J=-3762, A-O=9822, B-N=3147, C-L=425, F-L=2409,
 G-K=4951, H-J=7441

NOTES (6-7)

- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- 2) Provide adequate drainage to prevent water ponding.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint P and 248 lb uplift at joint I.
- 4) This truss has been designed with ANSI/TPI 1-1995 criteria.
- 5) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
 Top chords connected as follows: 2 X 6 - 2 rows at 0-8-0 oc.
 Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: I-P=-40.0, A-Q=-180.0, Q-R=-734.5, R-S=-180.0
 Trapezoidal Loads (plf)
 Vert: S=-181.0-to-H=-264.0

December 2, 2002

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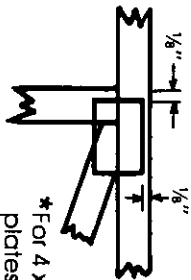


Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



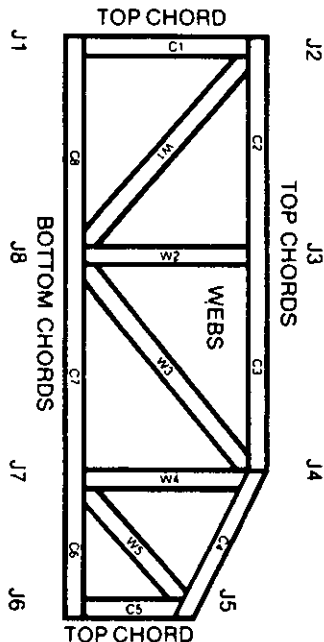
Indicates location of required continuous lateral bracing.



BEARING

Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT. WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	ICB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties..
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and/or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

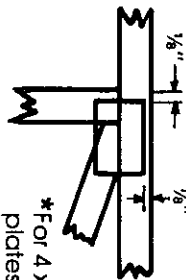
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Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tubular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



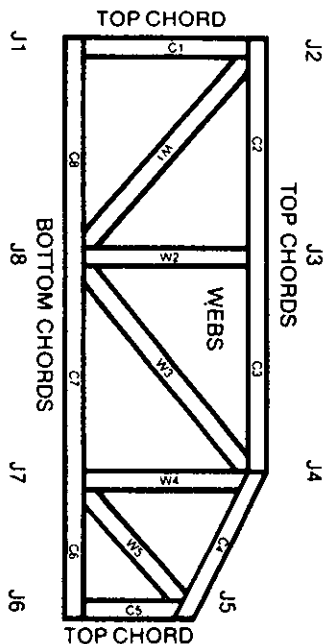
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTEST TO THE LEFT. WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	ICB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N

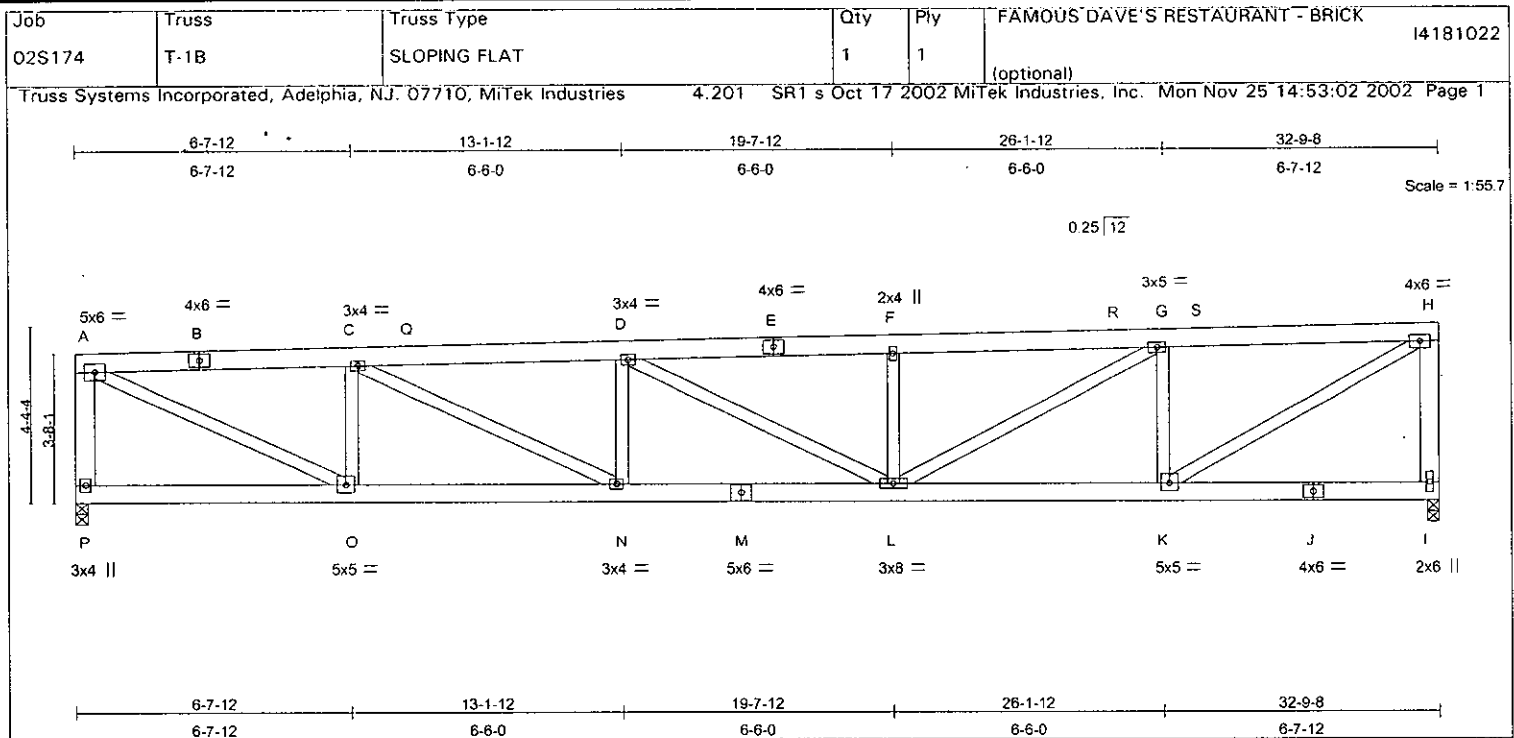


General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties..
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and/or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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LOADING (psf) TCLL 38.0 TCDL 7.0 BCLL 0.0 BCCL 10.0	SPACING 2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr NO Code BOCA/ANSI95	CSI TC 0.52 BC 0.71 WB 0.62 (Matrix)	DEFL in (loc) l/defl Vert(LL) -0.26 L-N >999 Vert(TL) -0.38 L-N >999 Horz(TL) 0.06 I n/a 1st LC LL Min l/defl = 360	PLATES MII20 Weight: 237 lb	GRIP 249/190
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LUMBER
 TOP CHORD 2 X 6 SYP No.2
 BOT CHORD 2 X 6 SYP No.2
 WEBS 2 X 4 SYP No.3 *Except*
 A-P 2 X 6 SYP No.2, H-I 2 X 6 SYP No.2, A-O 2 X 4 SYP No.2
 H-K 2 X 4 SYP No.2

BRACING
 TOP CHORD Sheathed or 3-8-1 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) P=1973/0-3-8, I=1874/0-3-8
 Max Horz P=179(load case 3)
 Max Uplift P=-93(load case 2), I=-97(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD A-P=-1873, A-B=-2980, B-C=-2971, C-Q=-4200, D-Q=-4193, D-E=-4053, E-F=-4046, F-R=-4053, G-R=-4042, G-S=-2678, H-S=-2671, H-I=-1783
 BOT CHORD C-P=196, N-O=2971, M-N=4193, L-M=4193, K-L=2671, J-K=122, I-J=122
 WEBS C-O=-1305, D-N=-493, F-L=-587, G-K=-1444, A-O=3104, C-N=1375, D-L=-166, G-L=1589, H-K=2981

- NOTES (5-6)**
- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33 and the plate grip increase is 1.33
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint P and 97 lb uplift at joint I.
 - 4) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard
 1) Regular: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: I-P=-20.0, Q-R=-90.0, R-S=-140.0, H-S=-90.0
 Trapezoidal Loads (plf)
 Vert: A=-138.0-to-Q=-91.0

December 2, 2002

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling Installing and Bracing Recommendation available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

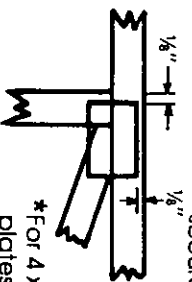


Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



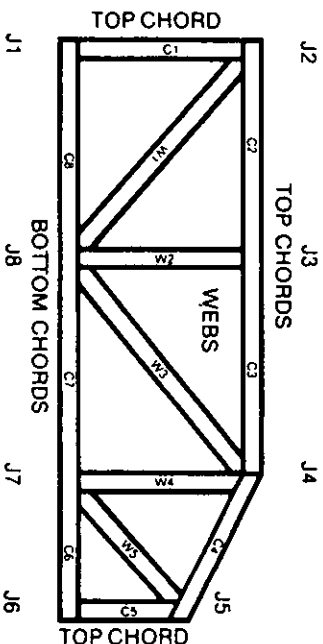
Indicates location of required continuous lateral bracing.



BEARING

Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	ICB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties..
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and/or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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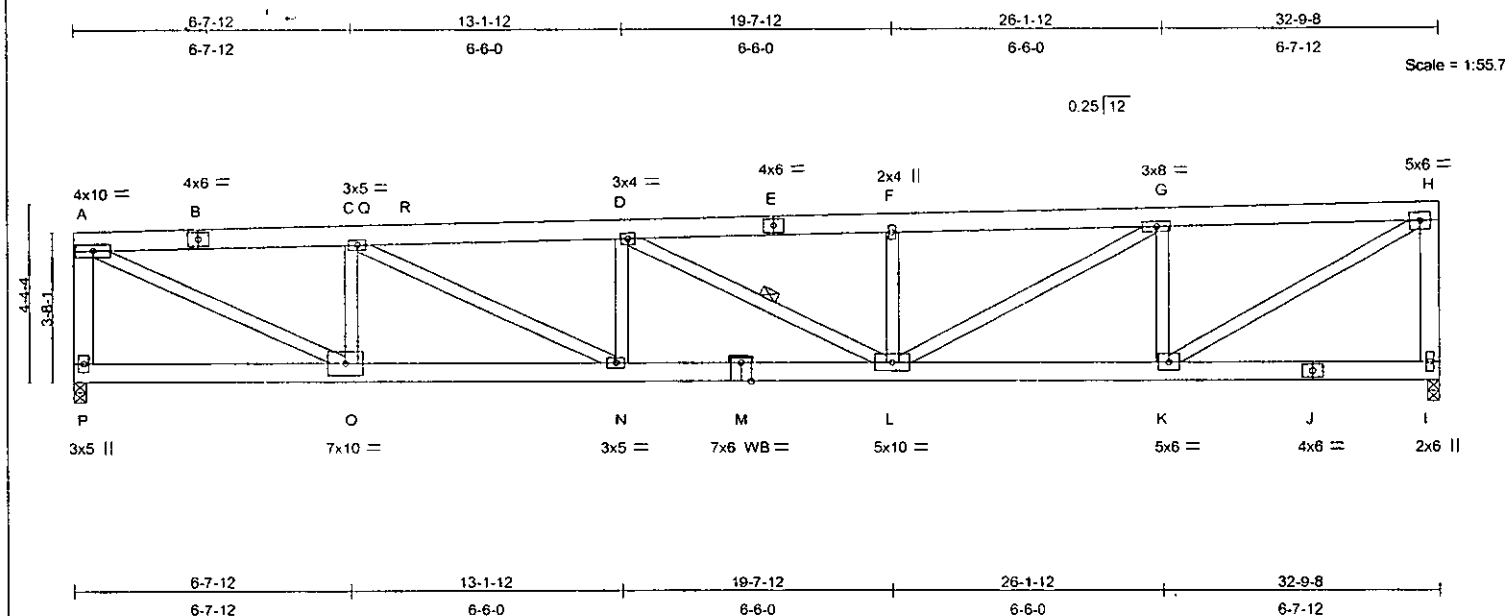


Plate Offsets (X,Y): (M:0-3-0,Edge)					
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	PLATES
TCLL 38.0	Plates Increase	1.15	TC 0.81	in (loc) l/defl	GRIP
TCDL 7.0	Lumber Increase	1.15	BC 0.86	Vert(LL) -0.36 L-N >999	249/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.85	Vert(TL) -0.52 L-N >745	
BCDL 10.0	Code	BOCA/ANSI95	(Matrix)	Horz(TL) 0.08 I n/a	
				1st LC LL Min l/defl = 360	Weight: 237 lb

LUMBER	BRACING
TOP CHORD 2 X 6 SYP No.1	TOP CHORD Sheathed or 2-3-5 oc purlins, except end verticals.
BOT CHORD 2 X 6 SYP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2 X 4 SYP No.3 *Except*	WEBS 1 Row at midpt D-L
A-P 2 X 6 SYP No.2, H-I 2 X 6 SYP No.2, A-O 2 X 4 SYP No.1	
H-K 2 X 4 SYP No.2	

REACTIONS (lb/size) P=2883/0-3-8, I=2201/0-3-8
 Max Horz P=179(load case 3)
 Max Uplift P=-158(load case 2), I=-120(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD A-P=-2768, A-B=-4836, B-C=-4821, C-Q=-6511, Q-R=-6510, D-R=-6491, D-E=-5360, E-F=-5352, F-G=-5358, G-H=-3240, H-I=-2105
 BOT CHORD O-P=182, N-O=4828, M-N=6490, L-M=6490, K-L=3233, J-K=130, I-J=130
 WEBS C-O=-2256, D-N=-730, F-L=-476, G-K=-1786, A-O=5197, C-N=1870, D-L=-1292, G-L=2447, H-K=3629

- NOTES (5-6)**
- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
 - 2) Provide adequate drainage to prevent water ponding.
 - 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint P and 120 lb uplift at joint I.
 - 4) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard
 1) Regular: Lumber Increase = 1.15, Plate Increase = 1.15
 Uniform Loads (plf)
 Vert: I-P=-20.0, D-R=-307.5, D-H=-90.0
 Trapezoidal Loads (plf)
 Vert: A=-138.0-to-Q=-97.0, Q=-314.5-to-R=-308.5

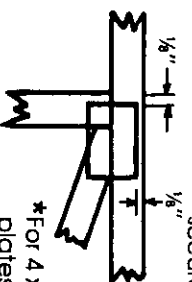
December 2, 2002

Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



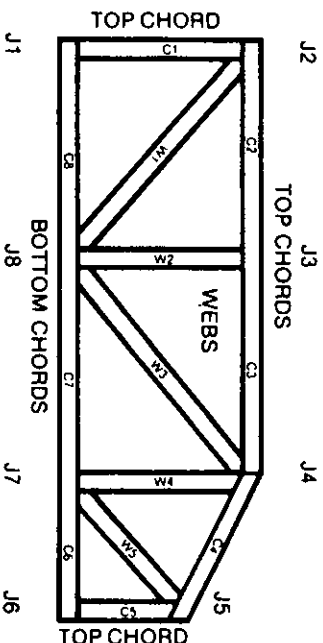
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT. WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	ICB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N

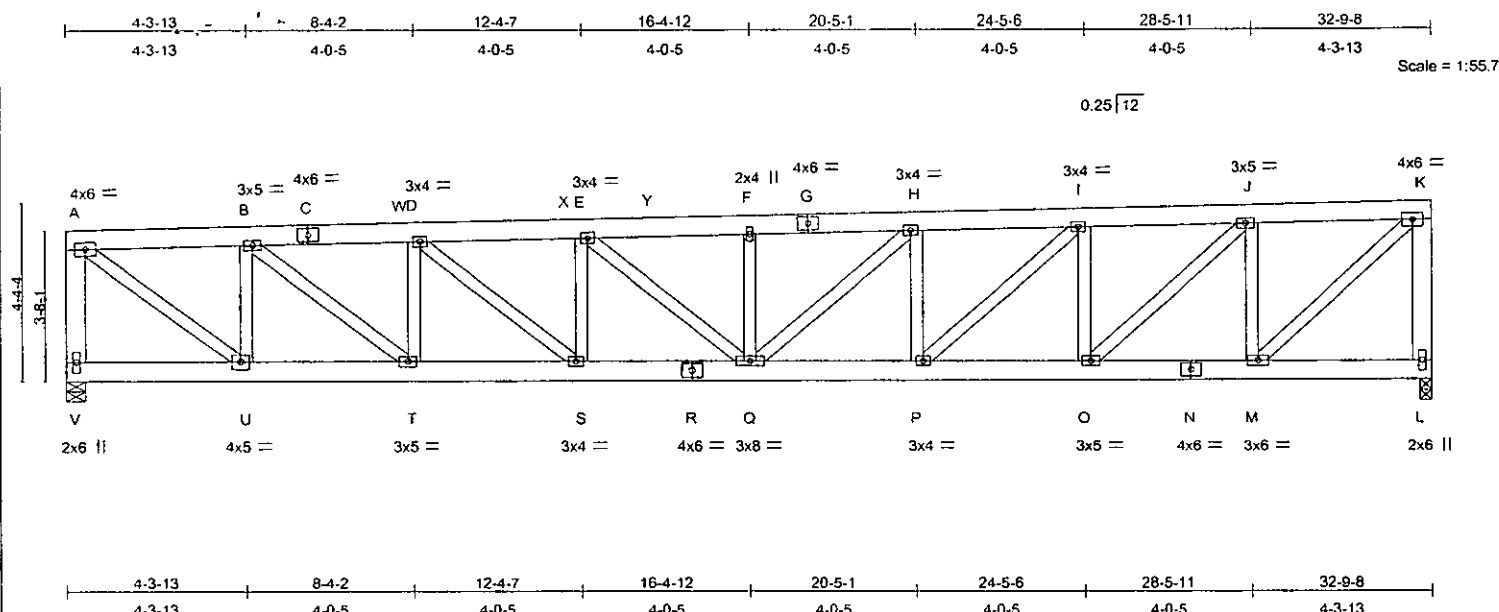


General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties..
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and/or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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LOADING (psf)	SPACING	4-0-0	CSI	DEFL	in (loc)	l/defl	PLATES	GRIP
TCLL 38.0	Plates Increase	1.15	TC 0.26	Vert(LL)	-0.21	Q > 999	MII20	249/190
TCDL 7.0	Lumber Increase	1.15	BC 0.65	Vert(TL)	-0.31	Q > 999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.84	Horz(TL)	0.07	L n/a		
BCDL 10.0	Code	BOCA/ANSI95	(Matrix)	1st LC LL Min l/defl	= 360		Weight: 515 lb	

LUMBER
 TOP CHORD 2 X 6 SYP DSS
 BOT CHORD 2 X 6 SYP No. 2
 WEBS 2 X 4 SYP No. 3 *Except*
 A-V 2 X 6 SYP No. 2, K-L 2 X 6 SYP No. 2

BRACING
 TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) V=3759/0-5-8, L=3590/0-3-8
 Max Horz V=359(load case 3)
 Max Uplift V=-173(load case 2), L=-182(load case 3)

FORCES (lb) - First Load Case Only
 TOP CHORD A-V=-3584, A-B=-4032, B-C=-6604, C-W=-6595, D-W=-6588, D-X=-7989, E-X=-7974, E-Y=-8271,
 F-Y=-8263, F-G=-8270, G-H=-8263, H-I=-7556, I-J=-5927, J-K=-3409, K-L=-3434
 BOT CHORD U-V=233, T-U=4021, S-T=6594, R-S=7980, Q-R=7980, P-Q=7547, O-P=5918, N-O=3402, M-N=3402,
 L-M=162
 WEBS A-U=4820, B-U=-2924, B-T=3329, D-T=-1932, D-S=1811, E-S=-1011, E-Q=372, F-Q=-730, H-Q=962,
 H-P=-1349, I-P=2219, I-O=-2206, J-O=3463, J-M=-3002, K-M=4473

NOTES (6-7)

- 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- 2) Provide adequate drainage to prevent water ponding.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint V and 182 lb uplift at joint L.
- 4) This truss has been designed with ANSI/TPI 1-1995 criteria.
- 5) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
 Top chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
 Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.

LOAD CASE(S) Standard

- 1) Regular: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: W-X=-180.0, X-Y=-203.0, K-Y=-180.0, L-V=-40.0
 Trapezoidal Loads (plf)
 Vert: A=-228.0-to-W=-181.0

December 2, 2002

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.

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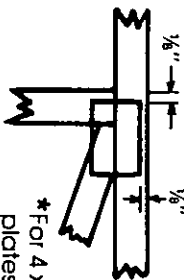


Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates $\frac{1}{8}$ " from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



Indicates location of required continuous lateral bracing.

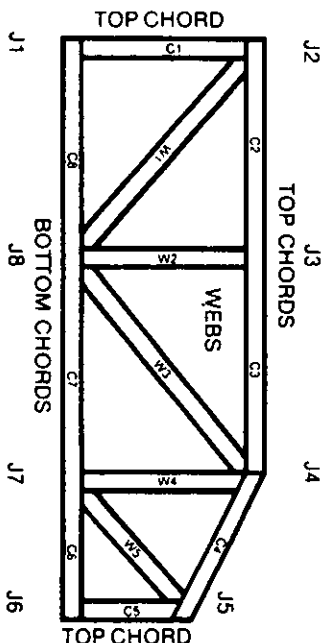


BEARING

Indicates location of joints at which bearings (supports) occur.

FORM018.019

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT. WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	ICB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N

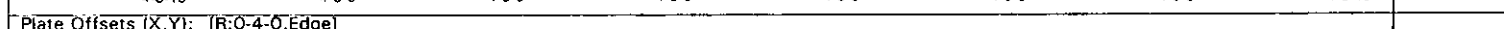


General Safety Notes

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1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties..
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at $\frac{1}{4}$ panel length ± 6 " from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19 % at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and/or load transferring connections to trusses are the responsibility of others unless shown.
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14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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LUMBER	BRACING
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751-5555

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

100% CONNECTED TO REMOTE BY 11:00 AM ON 06/06/2001

Design valid for use only with Miltek connectors. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **QSI-88 Quality Standard, D58-89 Bracing Specification, and H18-91 Handling, Installing and Bracing Recommendation** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

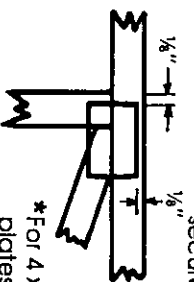


Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



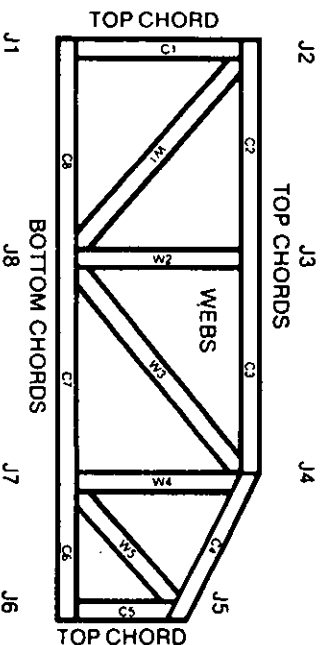
Indicates location of required continuous lateral bracing.



BEARING

Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT. WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	TCB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties..
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19 % at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and/or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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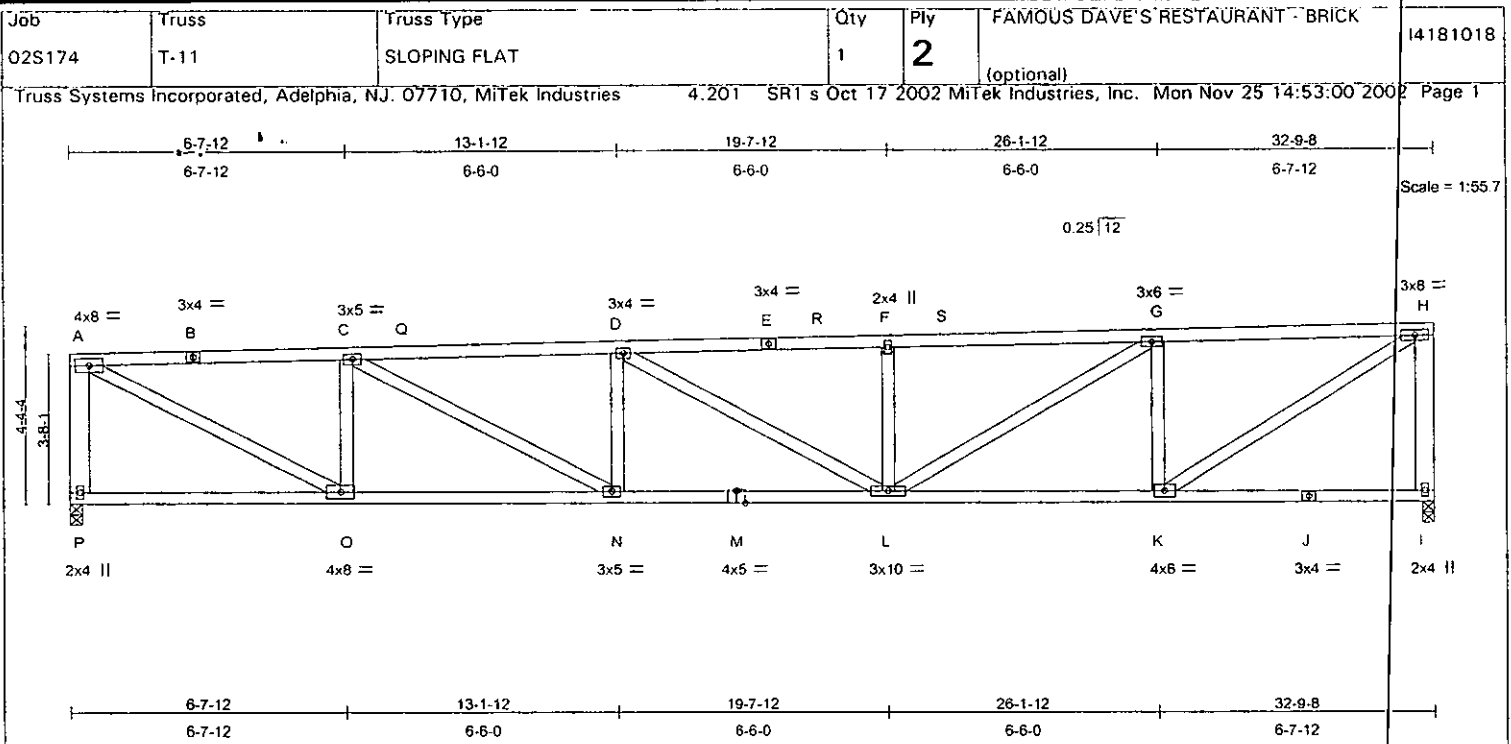


Plate Offsets (X,Y): [M:0-2-8,Edge]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 38.0	3-0-0	TC 0.90	in (loc) l/defl	M1120	249/190
TCDL 7.0	Plates Increase 1.15	BC 0.90	Vert(LL) -0.35 L-N >999		
BCLL 0.0	Lumber Increase 1.15	WB 1.00	Vert(TL) -0.52 L-N >740		
BCDL 10.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.09 l n/a		
	Code BOCA/ANSI95		1st LC LL Min l/defl = 360	Weight: 373 lb	

LUMBER TOP CHORD 2 X 4 SYP No.2 BOT CHORD 2 X 4 SYP No.2 WEBS 2 X 4 SYP No.3 *Except* A-P 2 X 6 SYP No.2, H-I 2 X 6 SYP No.2, H-K 2 X 4 SYP No.2	BRACING TOP CHORD Sheathed or 3-5-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
---	--

REACTIONS (lb/size) P=3490/0-3-8, I=3638/0-3-8
 Max Horz P=281(load case 3)
 Max Uplift P=-177(load case 2), I=-205(load case 3)

FORCES (lb) - First Load Case Only
TOP CHORD A-P=-3369, A-B=-5348, B-C=-5336, C-Q=-8202, D-Q=-8185, D-E=-8892, E-R=-8881, F-R=-8878, F-S=-8905, G-S=-8881, G-H=-5227, H-I=-3525
BOT CHORD O-P=239, N-O=5335, M-N=8191, L-M=8191, K-L=5217, J-K=156, I-J=156
WEBS C-O=-2523, D-N=-1342, F-L=-2412, G-K=-3020, A-O=5761, C-N=3248, D-L=790, G-L=4279, H-K=5989

NOTES (6-7)
 1) This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95. If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33.
 2) Provide adequate drainage to prevent water ponding.
 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint P and 205 lb uplift at joint I.
 4) This truss has been designed with ANSI/TPI 1-1995 criteria.
 5) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
 Top chords connected as follows: 2 X 4 - 1 row at 0-4-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
 Bottom chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
 Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.

LOAD CASE(S) Standard
 1) Regular: Lumber Increase = 1.15, Plate Increase = 1.15
 Uniform Loads (plf)
 Vert: I-P=-30.0, Q-R=-135.0, R-S=-669.0, H-S=-135.0
 Trapezoidal Loads (plf)
 Vert: A=-183.0-to-Q=-136.0

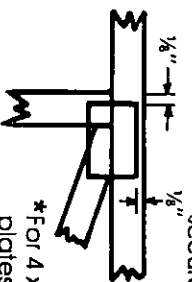
December 2, 2002

Symbols

PLATE LOCATION AND ORIENTATION



* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



* This symbol indicates the required direction of slots in connector plates.

* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart.

PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



Indicates location of required continuous lateral bracing.

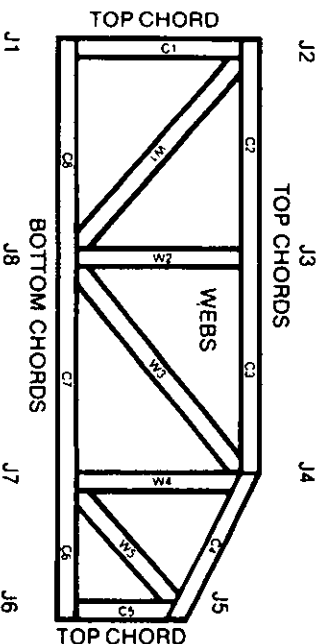
BEARING



Indicates location of joints at which bearings (supports) occur.

FORM018.019

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARHEST TO THE LEFT. WEBS ARE NUMBERED FROM LEFT TO RIGHT.

CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	TCB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DILHR	870040-N, 930013-N, 910080-N



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties..
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at 1/4 panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19 % at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and/or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stocks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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Job 02S174	Truss T-1	Truss Type SLOPING FLAT	Qty 1	Ply 1	FAMOUS DAVE'S RESTAURANT - BRICK (optional)	I4181017
Truss Systems Incorporated, Adelphia, NJ. 07710			4.201 SR1 s Feb 28 2002 MiTek Industries, Inc. Tue Nov 26 09:34:00 2002			Page 1

Scale = 1:54.0

Plate Offsets (X,Y): [M:0-3-0,Edge]					
LOADING (psf)	SPACING	2-0-0	CSI	DEFL	PLATES
TCLL 38.0	Plates Increase	1.15	TC 0.93	in (loc) N	MI20
TCDL 7.0	Lumber Increase	1.15	BC 0.94	Vert(TL) -0.34	GRIP
BCLL 0.0	Rep Stress Incr	NO	WB 0.88	Vert(TL) -0.50	249/190
BCDL 10.0	Code	BOCA/ANSI95		Horz(TL) 0.08	
				1st LC LL Min l/defl = 360	Weight: 237 lb

LUMBER

TOP CHORD 2 X 6 SYP No.2

BOT CHORD 2 X 6 SYP No.2

WEBS 2 X 4 SYP No.3 *Except*

A-P 2 X 6 SYP No.2, H-I 2 X 6 SYP No.2, A-O 2 X 4 SYP No.2

H-K 2 X 4 SYP No.2

BRACING

TOP CHORD Sheathed or 2-0-9 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) P=2554/0-3-8, I=2554/0-3-8

Max Horz P=179(load case 3)

Max Uplift P=-134(load case 2), I=-145(load case 3)

FORCES (lb) - First Load Case Only

TOP CHORD A-P=-2490, A-B=-3920, B-C=-3920, C-D=-5683, D-E=-5470, E-F=-5470, F-G=-5470, G-H=-3496, H-I=-2490

BOT CHORD O-P=0, N-O=3919, M-N=5681, L-M=5681, K-L=3496, J-K=0, I-J=0

WEBS C-O=-1837, D-N=-779, F-L=-897, G-K=-1991, A-O=4385, C-N=1982, D-L=-241, G-L=2279, H-K=4088

NOTES (5-4)

- This truss has been designed for the wind loads generated by 90 mph winds at 18 ft above ground level, using 5.0 psf top chord dead load and 5.0 psf bottom chord dead load, 10 mi from hurricane oceanline, on an occupancy category I, condition I enclosed building, of dimensions 82 ft by 70 ft with exposure B ASCE 7-93 per BOCA/ANSI95 If end verticals or cantilevers exist, they are exposed to wind. If porches exist, they are not exposed to wind. The lumber DOL increase is 1.33, and the plate grip increase is 1.33
- Provide adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint P and 145 lb uplift at joint I.
- This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard

1) Regular: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: I-P=-20.0, A-H=-138.0

December 2, 2002

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling installing and Bracing Recommendation available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Designline Construction Services, Inc.

Friday, July 19, 2002

VIA HAND DELIVERY

Mr. Dan Newman, Jr.
Construction Official
Township of Brick
401 Chambers Bridge Road
Brick, NJ 08723

Project: Famous Dave's Bar-B-Que Restaurant
Location: Brick, NJ
Subject: Construction Permit Application

Dear Mr. Newman:

Designline Construction Services, Inc. has been designated as the Contractor for a new Famous Dave's Bar-B-Que Restaurant to be built in the Township of Brick. Enclosed please find our Construction Permit Application with required documentation for the above referenced project. With regard to this application, please note the following:

1. Address for the work site has been identified as 960 Cedarbridge Avenue, Brick, NJ; Block 670; Lot 9.05. This is the information for the existing shopping center. ~~However, the restaurant is to be built on a new pad site within the shopping center. No address, block or lot has yet been designated for the new site.~~
2. The Plot Plan Review Checklist has already been filed with your office by the shopping center Developer, Paramount Realty Services, 1195 Route 70, Lakewood, NJ 08701. Our contact at Paramount is Bob Molloy, and his phone number is 732-886-1500.
3. The signage contractor has filled out separate Counter Forms and has attached two copies of the signage drawings.
4. Approval of the project by the Ocean County Health Department has already been obtained by the Owner. A copy of the inspection report is attached.

Please feel free to call me at 732-935-1440, Ext. 354 if you have any questions or if further clarification is required.

Very truly yours,


Doreen E. Grahey
Executive Assistant

Enclosures

T:\DESIGNLINE CONSTRUCTION\Clients\Famous Dave's\Brick, NJ\Governmental Correspond\Outgoing Correspond\7-19-02 cover ltr for bldg application.DOC

442 Route 35 South • Bldg A • Third Floor • Eatontown, NJ 07724
Telephone (732) 935-1440 • Fax (732) 935-1481
Website <http://www.designlineconstruction.com>

DCS



OCEAN COUNTY HEALTH DEPARTMENT

No: _____

SANITARY INSPECTION REPORT

ESTABLISHMENT INFORMATION

PHONE # (917) 796-1156 (TEMP.)		ESTABLISHMENT CODE 22	GOODS ☐ DESTROYED ☐ EMBARGOED
ESTABLISHMENT TRADING NAME FAMOUS DAVE'S		EVALUATION ☒ SATISFACTORY ☐ CONDITIONALLY SATISFACTORY ☐ UNSATISFACTORY	
NUMBER AND STREET 990 CEDARBRIDGE AVE		WATER SUPPLY ☒ Public - Community ☐ Individual (Public - Non-Community)	
CITY OR MUNICIPALITY BLACK	ZIP CODE 08723		
ESTABLISHMENT LICENSE NO.	COMMUN. CODE 1506	RISK I	

OWNER INFORMATION

(Complete this section only if different from establishment information)

NAME OF OWNER(S), CORPORATION OR REGISTERED AGENT ROBERT FANELLI		TIME (2400 HOURS)		
NUMBER AND STREET 24 VLIET DR		DATE 6-25-02	BEGIN 08:30	END 09:10
CITY OR MUNICIPALITY HILLSBOROUGH	STATE NJ	COMPLAINT NO. _____		
ZIP CODE 08844	COMMUN. CODE	COMPLAINT REC. _____		
		COMPLAINT INSPECTED _____		

INSPECTION TYPE ☐ COMPLAINT ☐ INITIAL INSPECTION ☐ REINSPECTION ☒ PLAN REVIEW ☐ CONFERENCE	TYPE OF ESTABLISHMENT ☒ RETAIL ☐ WHOLESALE ☐ VENDING MACHINE NO. OF MACHINES _____ ☐ FROZEN DESSERTS ☐ OTHER _____	Joseph J. Przywara Health Officer Sunset Avenue P.O. Box 2191 Toms River, N.J. 08754-2191 Telephone No. 732-341-8700 609-978-9715	Tobacco ☐ O. ☐ V. ☐ NA. ☐
		NAME OF INSPECTING OFFICIAL (Print) Joseph A. Caprio	
		SIGNATURE OF INSPECTING OFFICIAL Joseph A. Caprio	PERMANENT REG. NO. B-0375

DETAILED DATA SHEET

OCEAN COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES

CONTINUATION SHEET

Establishment Trading Name FAMOUS DAVE'S		Establishment License No.	Date 6-7-50
Signature of Inspecting Official Joseph A. Caprio		Municipality BRICK	Time - (2400 Hours) Begin 08:30
REC. NO.	REMARKS (Please specify area)		
	THE ATTACHED PLANS HAVE BEEN REVIEWED & APPROVED. THEY ARE IN SUBSTANTIAL COMPLIANCE WITH CHAPTER XII OF THE N.J. STATE SANITARY CODE.		
	NOTE: THIS OFFICE IS TO BE NOTIFIED PRIOR TO OPENING FOR AN INITIAL INSPECTION LCF		

(Attach additional sheets if necessary)

Applicable to Ordinance 720-92

This form must be handed in with permit application or a permit will not be issued.

TOWNSHIP OF BRICK
Debris Form

Work Site Address ~~960~~ CEDARBRIDGE AVE.

Block 670 LOT 9.02 BLDG. 4A

Contractor DESIGNLINE CONSTRUCTION SERVICES, INC.

Contractor's Address 442 RTE. 35S, BLDG. A, 3RD FL, EATONTOWN,
NJ 07724

Type of Construction (minor, new home) NEW BUILDING

Type of Debris (shingles, siding, wood, etc.) _____

Party Responsible for removal CARTING COMPANY
TO BE DETERMINED

Dumpster Size 30-YARD

Destination of Debris Discard _____

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

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

Signature

Date

J. DAVID SLABON, PRESIDENT + CEO

Print Name

USE GROUP OR OCCUPANCY:

A3 SMALL ASSEMBLY

CONSTRUCTION TYPE CLASSIFICATION:

SB (UNPROTECTED)

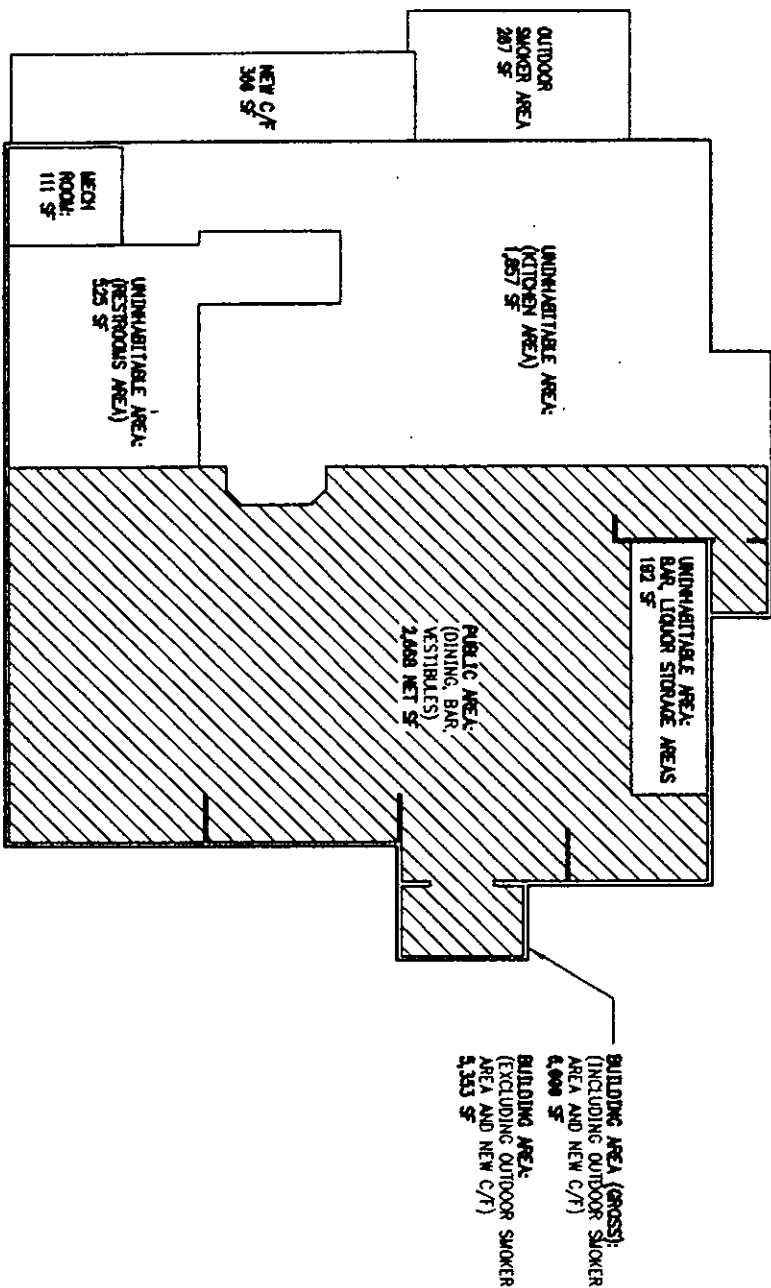
NON-SPRINKLERED

BUILDING SQUARE FOOTAGE & OCCUPANT LOAD:

TOTAL GROSS BUILDING AREA:

5,353 SF GROSS (EXCLUDING C/F AND OUTDOOR SMOKER AREA)
6,000 SF GROSS (INCLUDING C/F AND OUTDOOR SMOKER AREA)

NOTE: TOTAL GROSS BUILDING SQUARE FOOTAGES ARE FIGURED FROM THE OUTSIDE FACE OF THE BUILDING WALL. PUBLIC AREAS ARE FIGURED AS NET SQUARE FEET. KITCHEN AND SERVICE AREAS AND COOLER/FREEZER UNITS ARE FIGURED AS GROSS SQUARE FEET.



BUILDING KEY PLAN

Designline Construction Services, Inc.

Tuesday, August 13, 2002

VIA FEDERAL EXPRESS AIRBILL #8360 2864 9985

Lisa Rose Tavalaccio
Township of Brick Office of Affordable Housing
401 Chambers Bridge Road
Brick, NJ 08723

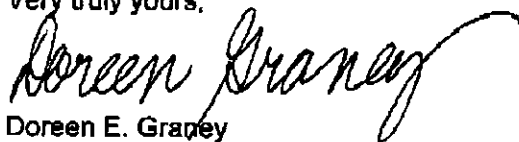
Project: Famous Dave's Restaurant
Location: Block 670, Lot 9.02
960 Cedar Bridge Avenue
Brick, NJ
Subject: Mandatory Development Fee

Dear Lisa:

With regard to the above and your letter dated August 8, 2002, enclosed please find check no. 3082 in the amount of \$2,610 to cover one half of the estimated Mandatory Development Fee for this project.

Please call me at 732-935-1440, Ext 354 if you have any questions.

Very truly yours,



Doreen E. Graney
Executive Assistant

Enclosure

CC: Dan Newman, Jr.
Construction Official
Township of Brick
Via Fax: 732-262-8954

TADESIGNLINE CONSTRUCTION\Clients\Famous Dave's\Brick, NJ\Governmental Correspond\Outgoing Correspond\8-13-02 cover for mandatory development fee.DOC

ROBERT L. EMERSON MARGARITA S. EMERSON		62-23/311	3082
		DATE	06.12.2002
PAY TO THE ORDER OF	TOWNSHIP OF RICK 40 CHAMBERS RAIC NT OF 223 BRIDGE RD.		\$ 2 610.00
TWENTY-SIX THOUSAND AND TEN 00/100			DOLLARS
JPMorgan		Morgan Guaranty Trust Company of New York Checking Account	
MEMO		MANANTARY AFFORDABLE HOUSING RENT FEE	
1			

TOWNSHIP OF BRICK

OCEAN COUNTY, NEW JERSEY

401 CHAMBERS BRIDGE ROAD • BRICK, NJ 08723



Joseph C. Scarpelli, Mayor

Township Council:

Steven N. Cucci — President
Stephen C. Acropolis
Kimberley S. Casten
Gregory S. Kavanagh
Kathy M. Russell
Tony R. Shupin
Frederick J. Underwood, Sr.

Department of Administration & Finance

Office of Land Use Management

Sean Kinney
Zoning Officer
(732) 262-1041
skinn@twp.brick.nj.us

Kate MacDonald
Asst. Zoning Officer
(732) 262-1043
Fax: (732) 262-8954
kmacdon@twp.brick.nj.us
http://www.twp.brick.nj.us

Chris Falkinburg
Designline Construction
442 Route 355, Bldg A
Eaton town, NJ 07724

Date: 12-20-2
Block: 670
Lot: 9.02
960 Cedar Bridge Ave.

☒ Your application for a zoning permit is incomplete. In order to review your application we need the following:

— Two (2) accurate plot plans, drawn either by a surveyor or an engineer, as per Section 190-31 of the Township Code. The plot plan must show all existing and proposed structures, all setbacks from property lines, all dimensions of the lot and structures, and all streets and waterways. No reduced, enlarged, taped or facsimile copies can be accepted.

☒ A zoning permit application form completely filled out by the applicant. No facsimile copies can be accepted.

☒ Your application for a zoning permit is denied for the following reasons:

All commercial additions must have a site
plan submitted to, and approved by, the
Planning Board.

cc: Daniel F. Newman, Construction Official



Heating and Air Conditioning

TECHNICAL GUIDE

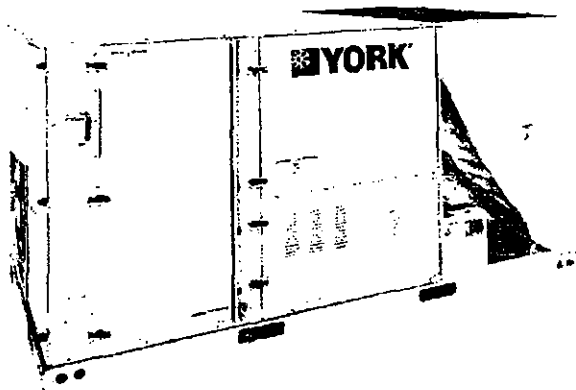
PREDATOR™

STANDARD EFFICIENCY

SINGLE PACKAGE AIR CONDITIONERS AND
SINGLE PACKAGE GAS/ELECTRIC UNITS

DM 078, 090, 102, 120, 150

6-1/2, 7-1/2, 8-1/2, 10, 12-1/2 NOMINAL TONS
9.0 EER



DESCRIPTION

YORK® Predator™ units are convertible single packages with a common footprint cabinet and common roof curb for all 6-1/2 through 12-1/2 ton models. All units have two compressors with independent refrigeration circuits to provide two stages of cooling. The units were designed for commercial applications and can be easily installed on a roof curb, slab, or frame.

All Predator™ units are self-contained and assembled on rigid full perimeter base rails allowing for 3-way forklift access and overhead rigging. Every unit is completely charged, wired, piped, and tested at the factory to provide a quick and easy field installation.

All units are convertible between side and down airflow. A independent economizer design is used on side and down discharge applications, as well as all tonnage sizes.

Predator™ units are available in the following configurations: cooling only, cooling with electric heat, and cooling with gas heat. Electric heaters are available only as field-installed accessories.

MODEL # DM090N15A2AAA

Tested in accordance with:



FOR DISTRIBUTION USE ONLY - NOT TO BE USED AT POINT OF RETAIL SALE



Heating and Air Conditioning

TECHNICAL GUIDE

MODEL# D3210N24A2AAA

SINGLE PACKAGE GAS/ELECTRIC UNITS

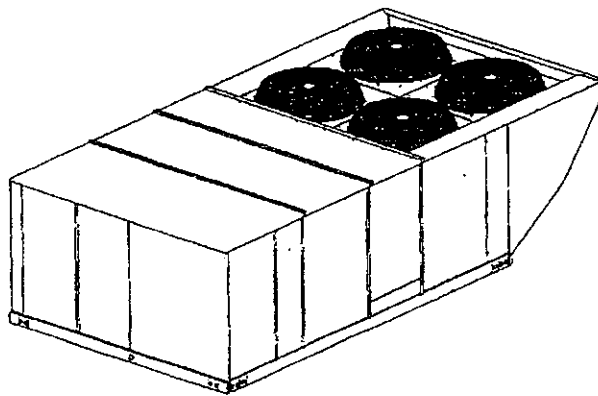
AND SINGLE PACKAGE AIR

CONDITIONERS

DJ 180, 210, 240 & 300

15 & 25 NOMINAL TONS

11.80 EER (15 TONS), 11.70 EER (17.5 TONS),
11.3 EER (20 TONS), 10.5 EER (25 TONS)



DESCRIPTION

YORK Sunline Magnum™ units are convertible single package high efficiency rooftops. All models have independent dual refrigerant circuits for efficient part load operation. Although the units are primarily designed for curb mounting on a roof, they can also be slab-mounted at ground level or set on steel beams above a finished roof.

All units include:

- Powder Paint finish that meets ASTM-B-117 750 hour salt spray standards
- Two-stage cooling provided by dual independent refrigeration circuits with expansion valves, filter-driers, high and low pressure/loss of charge switches and freezestats
- Scroll compressors
- Two-stage heating provided by dual independent heat exchangers with aluminized steel tubes, redundant gas valves, spark ignition with induced draft logic
- Permanently lubricated motors
- Bottom or side air discharge configuration capability (field convertible)
- Belt Drive Blower Motor with high static drive option
- Manufactured under the quality standards of ISO9001
- Simplicity™ Control Board
- Zero-25% fixed air damper with hood
- Copper tube/aluminum fin coils
- Hinged filter access and toolless latched doors
- Rigging holes in base rails for lifting
- Single point power connection
- Complete factory package - tested, charged and wired
- CSA agency approvals on all units

WARRANTY

- One-year parts warranty
- A Five-year parts warranty on the compressors and electric heat elements
- Ten-year parts warranty on the gas-fired heat exchangers



FOR DISTRIBUTION USE ONLY - NOT TO BE USED AT POINT OF RETAIL SALE

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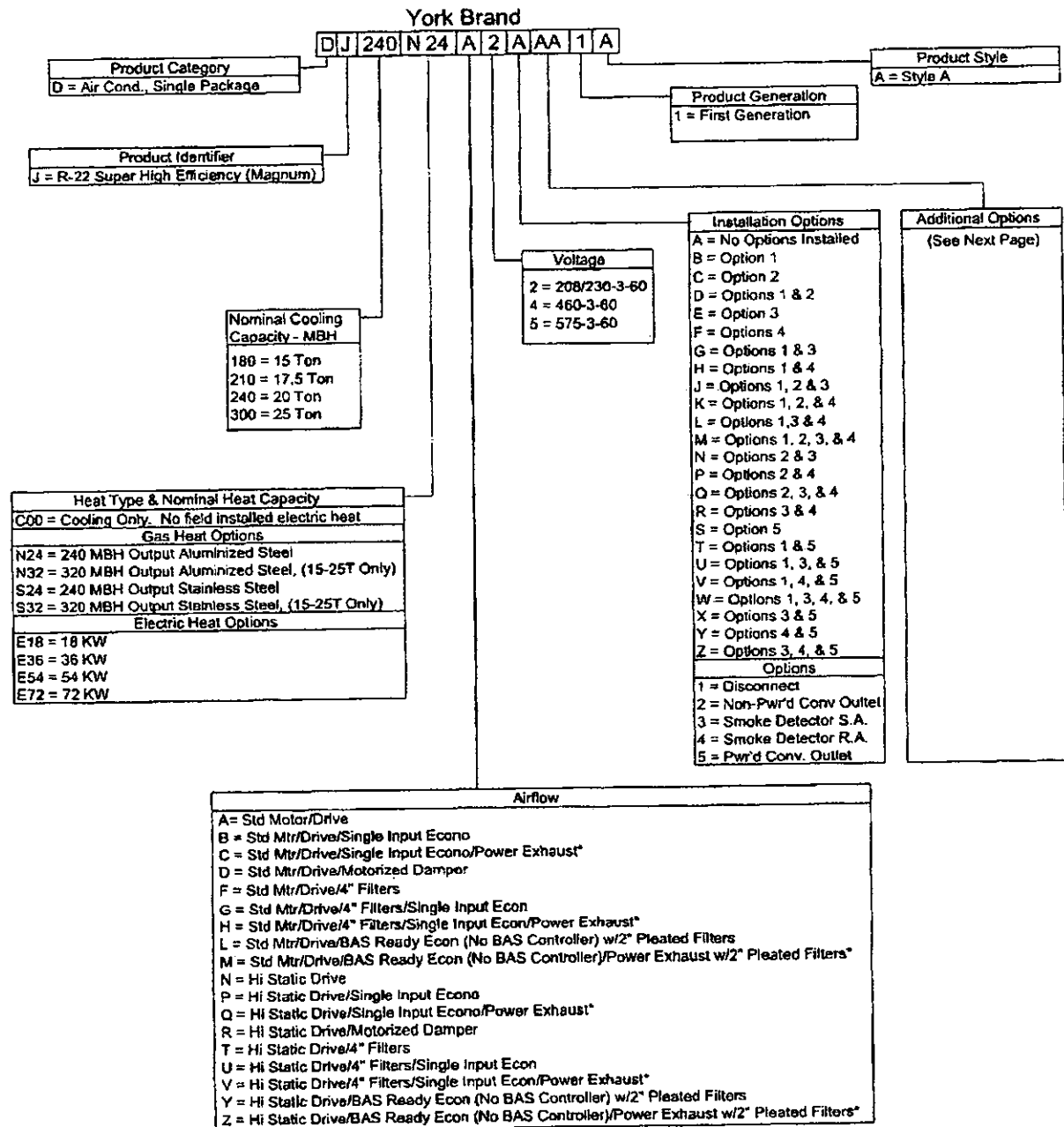
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PRODUCT NOMENCLATURE

15-25T Sunline Magnum™ Model Number Nomenclature



*1RD0406 Power Exhaust Hood Kit is shipped with unit (separate package) on airflow options C, H, M, Q, V, & Z.

- **Environmentally Aware** – For improved Indoor Air Quality, foil faced insulation is used exclusively throughout the units.
- **Balanced Heating** – The Predator™ offers "Ultimate Heating Comfort" with a balance between 1st and 2nd stage gas heating. The 1st stage of a gas heat Predator™ unit provides 60% of the heating capacity. Balanced heating allows the unit to better maintain desired temperatures.
- **Convertible Airflow Design** – The side duct openings are covered when they leave the factory. If a side supply/return is desired, the installer simply removes the two side duct covers from the outside of the unit and installs them over the down shot openings. No panel cutting is required. Convertible airflow design allows maximum field flexibility and minimum inventory.
- **System Protection** – Suction line freezestats are supplied on all units to protect against loss of charge and coil frosting when the economizer operates at low outdoor air temperatures while the compressors are running. Every unit has solid-core liquid line filter-driers and high and low-pressure switches. Internal compressor protection is standard on all compressors. Crankcase heaters are standard on reciprocating compressors. Scroll compressors do not require crankcase heaters.
- **Advanced Controls** – Predator™ control boards have standardized a number of features previously available only as options or by utilizing additional controls.
 - **Low Ambient** – An integrated low-ambient control allows all units to operate in the cooling mode down to 0°F outdoor ambient without additional assistance. Optionally, the control board can be programmed to lockout the compressors when the outdoor air temperature is low or when free cooling is available.
 - **Anti-Short Cycle Protection** – To aid compressor life, an anti-short cycle delay is incorporated into the standard controls. Compressor reliability is further ensured by programmable minimum run times. For testing, the anti-short cycle delay can be temporarily overridden with the push of a button.
 - **Fan Delays** – Fan on and fan off delays are fully programmable. Furthermore, the heating and cooling fan delay times are independent of one another. All units are programmed with default values based upon their configuration of cooling and heat.
 - **Safety Monitoring** – The control board monitors the high and low-pressure switches, the freezestats, the gas valve, if applicable, and the temperature limit switch on gas and electric heat units. The unit control board will alarm on ignition failures, compressor lockouts and repeated limit switch trips.
- **Nuisance Trip Protection and Strikes** – To prevent nuisance trouble calls, the control board uses a "three times, you're out" philosophy. The high and low-pressure switches and the freezestats must trip three times within two hours before the unit control board will lock out the associated compressor.
- **On Board Diagnostics** – Each alarm will energize a trouble light on the thermostat, if so equipped, and flash an alarm code on the control board LED. Each high and low-pressure switch alarm as well as each freezestat alarm has its own flash code. The control board saves the five most recent alarms in memory, and these alarms can be reviewed at any time. Alarms and programmed values are retained through the loss of power.
- **Reliable** – From the beginning – All units undergo computer automated testing before they leave the factory. Units are tested for refrigerant charge and pressure, unit amperage, and 100% functionality. For the long term – All Predator™ units are painted with a long lasting, powder paint that stands up over the life of the unit. The paint used has been proven by a 750 hour salt spray test.
- **Flexible Placement** – All models and configurations share the same cabinet/footprint and thus the same roof curb. You have the flexibility to set one curb and choose the correct tonnage size and heating option after the internal loads have been determined.

To further simplify planning and installation, Predator™ cabinets are designed to fit your roof. With the optional roof curb, the unit ductwork is designed to fit around 24" on-center joists or between 48" on-center joists.

The drain pan can be rotated to drain to either the front or the rear of the unit. Additionally, the drain pan can be piped to drain through the roof curb. As it is sometimes difficult to have a level installation, the drain pan features a generous slope to ensure proper drainage.
- **Full Perimeter Base Rails** – The permanently attached base rails provide a solid foundation for the entire unit and protect the unit during shipment. The rails offer fork-lift access from 3 sides, and rigging holes are available so that an overhead crane can be used to place the units on a roof.
- **Easy Installation** – Gas and electric utility knockouts are supplied in the unit underside as well as the side of the unit. A clearly identified location is provided to mount a field supplied electrical disconnect switch. Utility connections can be made quickly and with a minimum amount of field labor.

All units are shipped with 2" filters installed.
- **Wide Range of Indoor Airflows** – All indoor fan motors are belt-drive type providing maximum flexibility to handle most airflow requirements. For high static applications, factory installed alternate indoor fan motors are

036-21058-003-A-1102

available. With the optional indoor fan motor, all units can supply nominal airflow at a minimum of 1.5" ESP.

- **Warranty** - All models include a 1-year limited warranty on the complete unit. Compressors and electric heater elements each carry a 5-year warranty. Aluminized steel and stainless steel tubular heat exchangers carry an additional 10-year warranty.

FACTORY INSTALLED OPTIONS

YORK® offers several equipment options/accessories factory installed, for the Predator™ line.

- **Alternate Indoor Blower Motor** - For applications with high restrictions, units are offered with optional indoor motors that provide higher static output and/or higher airflow, depending upon the installer's needs.
- **Coil Guard** - Customers can purchase a coil guard kit to protect the condenser coil from damage. Additionally, this kit stops animals and foreign objects from entering the space between the inner condenser coil and the main cabinet. This is not a hail guard kit.
- **Convenience Outlet** - (Non-Powered) - This option locates a 120V GFCI single-phase outlet with cover on the corner of the unit housing the compressors. The installer must provide the 120V single-phase power source and wiring. Factory installed option only.
- **Dirty Filter Switch** - This kit includes a differential pressure switch that energizes the fault light on the unit thermostat, indicating that there is an abnormally high pressure drop across the filters. Factory installed option or field installed accessory.
- **Disconnect Switch** - For gas heat units, a HACR breaker sized to the unit is provided. For cooling units with electric heat, a switch sized to the largest electric heat available for the particular unit is provided. Factory installed option only.
- **Downflow Economizer** - (With barometric relief) - The economizer is provided with a single enthalpy input. The economizer is 2% low leakage type. The economizers are shipped installed and wired. The installer needs only assemble and mount the outdoor air hood. The economizer has spring return, fully modulating damper actuators and is capable of introducing up to 100% outdoor air. As the outdoor air intake dampers open, the return air dampers close. The changeover from mechanical refrigeration to economizer operation is regulated by the standard single enthalpy input. There is an optional input dual dry bulb available. To meet regulated air standards, the economizer control accepts an optional CO₂ input for demand ventilation.

With single enthalpy input, the economizer control monitors outdoor air. The dual enthalpy kit provides a second input used to monitor the return air. With a dual input kit installed, the economizer control compares the values of

the two enthalpy or temperature inputs and positions the dampers to provide the maximum efficiency possible.

- **Sideflow Economizer** - (Without barometric relief) - All features as the downflow economizer exist except you must order the barometric relief separately. **You must order a 1EH0408 if you are installing a power exhaust. You can order a 1RD0411 barometric relief for sideflow economizer only.**
- **Motorized Outdoor Air Damper** - The motorized outdoor air damper includes a slide-in/plug-in damper assembly with an outdoor air hood and filters. The outdoor air dampers open to the preset position when the indoor fan motor is energized. The damper has a range of 0% to 100% outdoor air entry. Factory installed option or field installed accessory.
- **Power Exhaust** (Downflow only) - This accessory installs in the unit with a down flow economizer. Power exhaust plugs into the connector in the unit bulkhead.
- **Phase Monitors** - Designed to prevent unit damage. The phase monitor will shut the unit down in an out-of-phase condition. (Standard on units with Scroll Compressors.)
- **Smoke Detectors** - The smoke detectors stop operation of the unit by interrupting power to the control board if smoke is detected within the air compartment.
- **Stainless Steel Heat Exchanger** - For applications in corrosive environments, this option provides a full stainless steel heat exchanger assembly.
- **Technicoat Condenser Coils** - The condenser coils are coated with a phenolic coating for protection against corrosion due to harsh environments.
- **Technicoat Evaporator Coil** - The evaporator coil is coated with a phenolic coating for protection against harsh environments.
- **Novar® BAS Control** - The Novar® ETC-3 building automation system controller is factory installed. Includes supply air sensor, return air sensor, dirty filter indicator switch, and air proving switch.
- **Johnson Controls BAS Control** - The Johnson Control YK-UNT-1126 building automation system controller is factory installed. Includes supply air sensor, return air sensor, dirty filter indicator switch, and air proving switch.
- **CPC BAS Control** - The Computer Process Controls Model 810-3060 ARTC Advanced Rooftop building automation system controller is factory installed. Includes supply air sensor, return air sensor, dirty filter indicator switch, and air proving switch.
- **Honeywell BAS Control** - The Honeywell W7750C building automation system controller is factory installed. Includes air supply sensor, return air sensor, dirty filter indicator switch, and air proving switch.

036-21058-003-A-1102

- **BAS Ready Economizer** - The economizer is provided with a Belimo actuator that requires a 0-10V DC input from an external source (i.e., field installed building automation system controller). Barometric relief or power exhaust options are available. The economizer is 2% low leakage type with spring return and fully modulating dampers capable of introducing up to 100% outside air. Also include 2" pleated filters.

FIELD INSTALLED ACCESSORIES

YORK® offers several equipment options/accessories for field installation, for the Predator™ Magnum line.

- **-60°F Gas Heat Kit** - For installations which require gas heat units to perform in low ambient temperatures, a gas section heating kit is available. This kit provides electric heat in the gas heat controls section to ensure the gas valve and controls will continue to function properly at extremely low temperatures.
- **Barometric Relief** - Zero to 100% capacity barometric relief damper for use with sideflow economizer.
- **Burglar Bars** - Mount in the supply and return openings to prevent entry into the duct work.
- **CO₂ Sensor** - Senses CO₂ levels and automatically overrides the economizer when levels rise above the preset limits.
- **Coil Guard** - Field installed decorative wire coil guard.
- **Dirty Filter Switch** - This kit includes a differential pressure switch that energizes the fault light on the unit thermostat, indicating that there is an abnormally high pressure drop across the filters.
- **Enthalpy Accessory Control Kit** - This kit contains the required components to convert a single enthalpy economizer to dual enthalpy.
- **Economizer (Downflow with barometric relief)** - Economizer with relief damper and single enthalpy input (2% low leakage damper).
Spring return fully modulating motor capable of introducing up to 100% outside air. For power exhaust, add the power exhaust accessory.
- **Economizer (Horizontal)** - Horizontal economizers are designed to install in the lower return section on the side of the unit. It is specifically designed for horizontal return applications. **1EH0408 barometric relief/power exhaust hood must be purchased separately. You may also order a 1RD0411 barometric relief if a power exhaust isn't being installed.** The horizontal economizer is available with standard single enthalpy control. Dual enthalpy may be added by installing the dual enthalpy kit.
- **Electric Heaters** - The electric heaters range from 18 kW to 54kW and are available in all the voltage options of the base units. All heaters are dual staged. Cooling units include an adapter panel for easy installation of the electric heaters. Necessary hardware and connectors

are included with the heaters. All heaters are intended for single point power supply.

- **Flue Exhaust Extension Kit** - In locations with wind or weather conditions which may interfere with proper exhausting of furnace combustion products, this kit can be installed to prevent the flue exhaust from entering nearby fresh air intakes.
- **Gas Heat High Altitude Kit** - This kit converts a gas heat unit to operate at high altitudes, 2,000 to 6,000 feet. Conversion kits are available for natural gas and propane.
- **Gas Heat Propane Conversion Kit** - This kit converts a gas-fired heater from natural gas to propane. It contains the main burner orifices and gas valve replacement springs.
- **Hail Guard** - This kit includes a sloped hood which installs over the outside condenser coil and prevents damage to the coil fins from hail strikes. Field installed accessory only.
- **Manual Outdoor Air Damper** - Like the motorized outdoor air damper, each manual outdoor air damper includes a slide-in damper assembly with an outdoor air hood and filters. Customers have a choice of dampers with ranges of 0% to 100% or 0% to 35% outdoor air entry.
- **Power Exhaust** - This accessory installs in the unit with a down flow economizer. Power exhaust plugs into the connector in the unit bulkhead. **You must purchase 1EH0408 barometric relief/power exhaust hood when applying to a sideflow application.**
- **Roof Curbs** - The roof curbs have insulated decks and are shipped disassembled. The roof curbs are available in 8" and 14" heights.
For applications with security concerns, burglar bars are available for the duct openings of the roof curbs.
- **Roof Curb Adaptor Single Piece Adapter (10" High)** - Roof curbs for transitioning from Sunline™ units to Predator™ Magnum. Fits 7.5 to 12.5 Sunline™ roof curbs only.
- **Smoke Detectors** - The smoke detectors stop operation of the unit by interrupting power to the control board if smoke is detected within the air compartment.
- **Thermostat** - The units are designed to operate with 24-volt electronic and electro-mechanical thermostats. All units (with or without an economizer) operate with two-stage heat/two-stage cool or two-stage cooling only thermostats, depending upon unit configuration.
- **Motorized Outdoor Air Damper** - The motorized outdoor air damper includes a slide-in/plug-in damper assembly with an outdoor air hood and filters. The outdoor air dampers open to the preset position when the indoor fan motor is energized. The damper has a range of 0% to 100% outdoor air entry. Factory installed option or field installed accessory.

Unitary Products

FEATURES

All models are available with a wide variety of factory-mounted options such as stainless steel heat exchangers, phase monitor, dirty filter switch, and coil guard to make them suitable for almost every application.

All units are self-contained and assembled on full perimeter base rails with holes in the four corners for overhead rigging. Every unit is completely piped, wired, charged and tested at the factory to simplify the field installation and to provide years of dependable operation.

All models (including those with an economizer) are suitable for either bottom or horizontal duct connections. **Models with factory installed power exhaust are suitable for bottom duct connections only.** For bottom duct, you remove the sheet metal panels from the supply and return air openings through the base of the unit. For horizontal duct, you replace the supply and return air panels on the rear of the unit with a side duct flange accessory.

All models are available with these "factory mounted" outdoor air damper options:

- Single enthalpy economizer
- Single enthalpy economizer with power exhaust
- Motorized outdoor air damper

A fixed outdoor air intake assembly will be shipped in the return air compartment of all units ordered without an economizer or motorized outdoor air damper option. The assembly includes a rain hood with a damper that can be set for 10, 15 or 25% outdoor air. With bottom duct connections, the intake damper assembly should be mounted over the opening in the return air panel. With horizontal ductwork, it should be mounted on the return air duct.

All supply air blowers are equipped with a belt drive that can be adjusted to meet the exact requirements of the job. A high static drive option is available for applications with a higher CFM and/or static pressure requirement.

All compressors include scroll compressors and internal pressure relief. Every refrigerant circuit includes an expansion valve, a liquid line filter-drier, a discharge line high pressure switch and a suction line with a freeze-stat and low pressure/loss of charge switch to protect all system components.

- **Simplicity™ Controls** - Simplicity™ control boards have standardized a number of features previously available only as options or by utilizing additional controls.
 - **Low Ambient** - An integrated low-ambient control allows all units to operate in the cooling mode down to 0°F outdoor ambient without additional assistance. Optionally, the control board can be programmed to lockout the compressors when the outdoor air temperature is low or when free cooling is available.

- **Anti-Short Cycle Protection** - To aid compressor life, an anti-short cycle delay is incorporated into the standard controls. Compressor reliability is further ensured by programmable minimum run times. For testing, the anti short cycle delay can be temporarily overridden with the push of a button.
- **Fan Delays** - Fan on and fan off delays are fully programmable. Furthermore, the heating and cooling fan delay times are independent of one another. All units are programmed with default values based upon their configuration of cooling and heat.
- **Safety Monitoring** - The control board monitors the high and low-pressure switches, the freeze-stat, the gas valve, if applicable, and the temperature limit switch on gas and electric heat units. The unit control board will alarm on ignition failures, compressor lockouts and repeated limit switch trips.
- **Nuisance Trip Protection and Strikes** - To prevent nuisance trouble calls, the control board uses a "three times, you're out" philosophy. The high and low-pressure switches and the freeze-stat must trip three times within two hours before the unit control board will lock out the associated compressor.
- **On Board Diagnostics** - Each alarm will energize a trouble light on the thermostat, if so equipped, and flash an alarm code on the control board LED. Each high and low-pressure switch alarm as well as each freeze-stat alarm has its own flash code. The control board saves the five most recent alarms in memory, and these alarms can be reviewed at any time. Alarms and programmed values are retained through the loss of power.

All units have long lasting powder paint cabinets with 750 hour salt spray test approval under ASTM-B117 procedures.

All models are CSA approved.

- **Warranty** - All models include a one-year limited parts warranty on the complete unit. Compressors and electric heater elements carry a five-year warranty. Gas heat exchangers carry a 10-year parts warranty.
- **Gas Heat Operation** - All gas heat units are built with two heating sections for two equal stages of capacity control. Each section includes a durable heat exchanger with aluminized steel or optional stainless steel tubes, a redundant gas valve, spark ignition, power venting, an ignition module for 100% shut-off and all of the safety controls required to meet the latest ANSI standards.

The gas supply piping can be routed into the heating compartment through a hole in the base pan of the unit or through a knockout in the piping panel on the front of the unit.

DM 120 N 15 A 2 A AA 3**TABLE 2: PRODUCT NOMENCLATURE**

Model #	Model Number Description	Options		
D	Product Category	D = Air Conditioner, Single Package		
M	Product Identifier	M = Standard Efficiency		
120	Nominal Cooling Capacity MBH	078 = 6-1/2 Ton 090 = 7-1/2 Ton	102 = 8-1/2 Ton 120 = 10 Ton	150 = 12-1/2 Ton
N	Heat Type	C = Cooling Only	N = Natural Gas, Aluminized Steel	S = Natural Gas, Stainless Steel
15	Nominal Heating Capacity	00 = No Heat Installed 10 = 100 MBH Output Gas Heat	15 = 150 MBH Output Gas Heat	20 = 200 MBH Output Gas Heat
A	Airflow	A = SM B = SM/VEC/BR C = SM/VEC/PE D = SM/MD (Downflow only) E = SM/Horiz EC N = High Static Motor P = High Static Motor/VEC/BR	Q = High Static Motor/VEC/PE R = High Static Motor/MD (Downflow only) S = High Static Motor/Horiz EC L = SM/BAS VEC/BR/2" Pleated Filters	M = SM/BAS VEC/PE/2" Pleated Filters Y = High Static Motor/BAS VEC/BR/2" Pleated Filters Z = High Static Motor/BAS VEC/PE/2" Pleated Filters
2	Voltage	2 = 208/230-3-60	4 = 460-3-60	5 = 575-3-60
A	Installation Options	A = None B = 1 C = 2 D = 1 & 2 E = 3 F = 4	G = 1 & 3 H = 1 & 4 J = 1, 2 & 3 K = 1, 2 & 4 L = 1, 3 & 4 M = 1, 2, 3 & 4	N = 2 & 3 P = 2 & 4 Q = 2, 3 & 4 R = 3 & 4
AA	Additional Options	AA = None AB = PM AC = CG AD = DFS AE = PM & CG AF = PM & DFS AG = CG & DFS AH = PM, CG & DFS CA = CC, DFS & APS CB = CC, DFS, APS & PM CC = CC, DFS, APS & CG CD = CC, DFS, APS, PM & CG CE = CC, DFS, APS, TCC CF = CC, DFS, APS, TCC & PM CG = CC, DFS, APS, TCC & CG CH = CC, DFS, APS, TCC, PM & CG CJ = CC, DFS, APS & TEC CK = CC, DFS, APS, TEC & PM CL = CC, DFS, APS, TEC & CG CM = CC, DFS, APS, TEC, PM & CG CN = CC, DFS, APS, TEC & TCC CP = CC, DFS, APS, TEC, TCC & PM CQ = CC, DFS, APS, TEC, TCC & CG CR = CC, DFS, APS, TEC, TCC, PM & CG CV = CC, DFS, APS & 2" PF CX = CC, DFS, APS, 2" PF & TCC JA = JC, DFS & APS JB = JC, DFS, APS & PM JC = JC, DFS, APS & CG JD = JC, DFS, APS, PM & CG JE = JC, DFS, APS & TCC JF = JC, DFS, APS, TCC & PM JG = JC, DFS, APS, TCC & CG	JH = JC, DFS, APS, TCC, PM & CG JJ = JC, DFS, APS & TEC JK = JC, DFS, APS, TEC & PM JL = JC, DFS, APS, TEC & CG JM = JC, DFS, APS, TEC, PM & CG JN = JC, DFS, APS, TEC & TCC JP = JC, DFS, APS, TEC, TCC & PM JQ = JC, DFS, APS, TEC, TCC & CG JR = JC, DFS, APS, TEC, TCC, PM & CG HA = HC, DFS & APS HB = HC, DFS, APS & PM HC = HC, DFS, APS, & CG HD = HC, DFS, APS, PM & CG HE = HC, DFS, APS & TCC HF = HC, DFS, APS, TCC & PM HG = HC, DFS, APS, TCC & CG HH = HC, DFS, APS, TCC, PM & CG HJ = JC, DFS, APS & TEC HK = HC, DFS, APS, TEC & PM HL = HC, DFS, APS, TEC & CG HM = HC, DFS, APS, TEC, PM & CG HN = HC, DFS, APS & TEC HP = HC, DFS, APS, TEC, TCC & PM HQ = HC, DFS, APS, TEC, TCC & CG HR = HC, DFS, APS, TEC, TCC, PM & CG NA = NC, DFS & APS NB = NC, DFS, APS & PM NC = NC, DFS, APS & CG ND = NC, DFS, APS, PM & CG NE = NC, DFS, APS & TEC NF = NC, DFS, APS, TCC & PM NG = NC, DFS, APS, TCC & CG	NH = NC, DFS, APS, TCC, PM & CG NJ = NC, DFS, APS & TEC NK = NC, DFS, APS, TEC & PM NL = NC, DFS, APS, TEC & CG NM = NC, DFS, APS, TEC, PM & CG NN = NC, DFS, APS, TEC & TCC NP = NC, DFS, APS, TEC, TCC & PM NQ = NC, DFS, APS, TEC, TCC & CG NR = NC, DFS, APS, TEC, TCC, PM & CG TA = TCC TB = TCC & PM TC = TCC & CG TD = TCC & DFS TE = TCC, PM & CG TF = TCC, PM & DFS TG = TCC, CG & DFS TH = TCC, PM, CG & DFS TJ = TEC TK = TEC & PM TL = TEC & CG TM = TEC & DFS TN = TEC, PM & CG TP = TEC, PM & DFS TQ = TEC, CG & DFS TR = TEC, PM, CG & DFS TS = TEC & TCC TT = TEC, TCC & PM TU = TEC, TCC & CG TV = TEC, TCC & DFS TW = TEC, TCC, PM & CG TX = TEC, TCC, PM & DFS TY = TEC, TCC, CG & DFS TZ = TEC, TCC, PM, CG & DFS
3	Product Generation	3 = Third Generation		

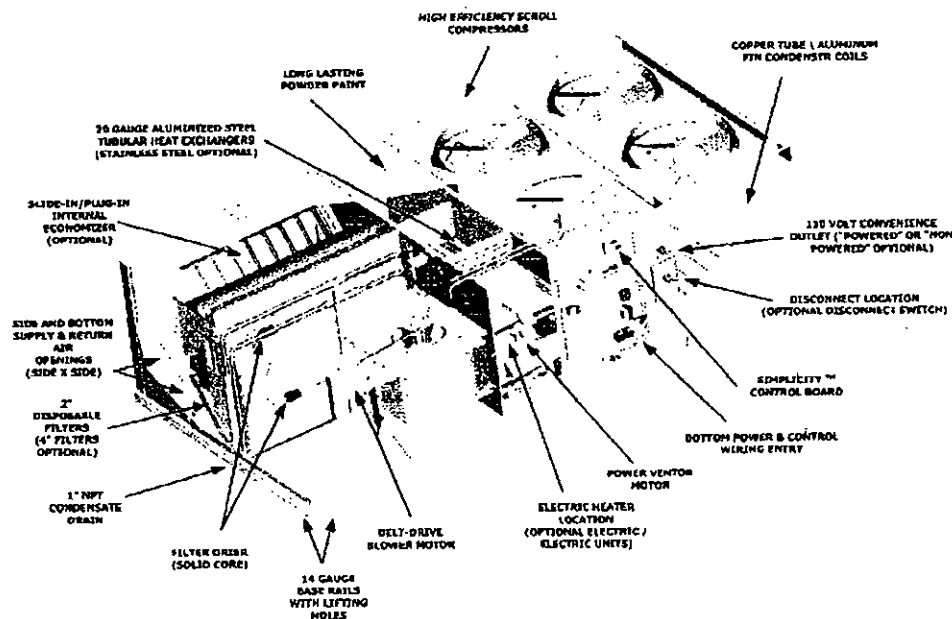


FIGURE 1: UNIT CUTAWAY

- **Electric Heat Operation** - All electric heat models (factory installed only) are wired for a single power source and include a bank of nickel chromium elements mounted at the discharge of the supply air blower to provide a high velocity and uniform distribution of air across the heating elements. Every element is fully protected against excessive current and temperature by fuses and two thermal limit switches.

The power supply wiring can be routed into the control box through a threaded pipe connection in the base pan of the unit or through a knockout in the wiring panel on the front of the unit.

- **BAS Controls** - York's Magnum series units offer factory mounted BAS controls such as Novar, Honeywell, Johnson, and CPC.

FACTORY-INSTALLED OPTIONS

- **SINGLE INPUT ELECTRONIC ENTHALPY ECONOMIZERS** - Includes a slide-in / plug-in damper assembly with fully modulating spring-return motor actuator capable of introducing up to 100% outdoor air with nominal 1% leakage type dampers.

The enthalpy system contains one sensor that monitors the outdoor air and determines when the air is cool enough and dry enough to provide free cooling.

The rainhood is painted to match the basic unit and must be field-assembled before installing.

Power exhaust is not available as a field installed option.

- **POWER EXHAUST** - Our single economizer options are available with power exhaust. Whenever the outdoor air intake dampers are opened for free cooling, the exhaust fan will be energized to prevent the conditioned space from being over-pressurized during economizer operation.

The exhaust fan, motor and controls are installed and wired at the factory. The rain hood and the back-draft damper need to be assembled and installed in the field.

The power exhaust option can only be used on bottom duct configurations.

- **MOTORIZED OUTDOOR AIR INTAKE DAMPER** - Includes a slide-in / plug-in damper assembly with a 2-position, spring return motor actuator which opens to a pre-set position whenever the supply air blower is operating and will drive fully closed when the blower unit shuts down.

The rain hood is painted to match the basic unit and must be field assembled before installing.

- **PHENOLIC COATED EVAPORATOR AND CONDENSER COILS** - Special coating process that utilizes Technicoat 10-1" processes. Coating is applied by total immersion of the complete coil for maximum protection.
- **ELECTRIC HEATERS** wired for single point power supply. These nickel chromium heater elements are provided with limit and automatic reset capability to prevent operation at excessive temperatures.

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TABLE 3: AIRFLOW ABBREVIATIONS

ABBREVIATION	MEANING
BR	Barometric Relief
EC	Economizer
VEC	Vertical Economizer
MD	Motorized Damper
PE	Power Exhaust
SM	Standard Motor
BAS	Building Automation System

TABLE 4: INSTALLATION ABBREVIATIONS

ABBREVIATION	MEANING
1	Disconnect
2	Convenience Outlet
3	Smoke Detector Supply Air
4	Smoke Detector Return Air

TABLE 5: ADDITIONAL OPTIONS ABBREVIATIONS

ABBREVIATION	MEANING
APS	Air Proving Switch
CC	CPC Controller
CG	Coil Guard
DFS	Dirty Filter Switch
HC	Honeywell Controller
JC	Johnson Controls Controller
NC	Novar [®] Controller
TCC	Technicoat Condenser Coil
TEC	Technicoat Evaporator Coil

TABLE 6: PHYSICAL DATA

Component		Models				
		078	090	102	120	150
Evaporator Blower	Blower, Centrifugal (Dia. X Wd. in.)	15 x 15	15 x 15	15 x 15	15 x 15	15 x 15
	Motor, Standard (HP)	1-1/2	1-1/2	2	2	3
	Motor, Optional (HP)	2	2	3	3	5
Evaporator Coil	Rows	2	2	3	2	3
	Fins per Inch	15	15	15	15	15
	Height (in.)	30	32	24	40	40
	Face Area (ft. ² each)	9.9	10.6	7.9	13.2	13.2
Condenser Fan (2 per Unit)	Propeller Dia. (in., each)	24	24	24	24	24
	Motor (HP, each)	1/3	1/3	3/4	3/4	3/4
	CFM, Nominal (each)	3400	3400	4400	4400	4400
Condenser Coil (2 per unit)	Rows (each)	1	1	1	1	2
	Fins per Inch	20	20	20	20	20
	Height (in. each)	24	28	36	44	44
	Face Area (ft. ² each)	7.9	9.2	11.9	14.5	14.5
Refrigerant Charge	System 1 (lb./oz.)	4/6	4/12	5/0	6/12	10/12
	System 2 (lb./oz.)	4/0	4/6	5/4	6/12	9/8
Compressors	Quantity	2	2	2	2	2
	Type	Recip	Recip	Recip	Recip	Recip
Air Filters	Size (Wd. x Ht. x Thickness in.)	25x20x2	25x20x2	25x20x2	25x20x2	25x20x2
	Number Per Unit	4	4	4	4	4

- **FILTER OPTIONS** - Standard units are shipped with 2" throw-away filters installed. 2" pleated and 4" pleated filters are offered as a factory installed option.
- **CONVENIENCE OUTLET** - This 110 volt outlet can be "powered" by the unit with a stepdown transformer or you may order the unit with a "non-powered" convenience outlet that can be wired in the field.
- **DISCONNECT SWITCH** - For gas heat units and cooling units with electric heat, a HACR breaker sized to the unit is provided. For cooling only units, a switch sized to the largest electric heat available for the particular unit is provided. Factory installed option only.
- **BAS** - See "Additional Options" section in the product nomenclature.
- **SMOKE DETECTORS** - (supply air & return air) The smoke detectors stop operation of the unit by interrupting power to the control board if smoke is detected within the air compartment.
- **COIL GUARD** - Customers can purchase a coil guard kit to protect the condenser coil from damage. This is not a hail guard kit.
- **STAINLESS STEEL HEAT EXCHANGER** - For applications in corrosive environments, this option provides a full stainless steel heat exchanger assembly.
- **PHASE MONITORS** - Designed to prevent unit damage. The phase monitor will shut the unit down in an out-of-phase condition.
- **HIGH SPEED DRIVE** - Includes a belt and blower pulley upgrade to enhance blower performance.
- **DIRTY FILTER SWITCH** - This kit includes a differential pressure switch that energizes the fault light on the unit thermostat, indicating that there is an abnormally high pressure drop across the filters. Factory installed option or field installed accessory.
- **HINGED FILTER DOOR/"TOOLESS" BLOWER AND ACCESS PANELS (not hinged)** - This option allows for easy access and maintenance.

NOTE: Knobs are shipped separately within the unit to prevent shipping damage. These must be field installed for tool-less operation.

FIELD-INSTALLED ACCESSORIES

- **SINGLE INPUT ELECTRONIC ENTHALPY ECONOMIZERS** - Includes a slide-in / plug-in damper assembly with fully modulating spring-return motor actuator capable of introducing up to 100% outdoor air with nominal 1% leakage type dampers.

The enthalpy system contains one sensor that monitors the outdoor air and determines when the air is cool enough and dry enough to provide free cooling.

The rainhood is painted to match the basic unit and must be field-assembled before installing.

Power exhaust is not available as a field installed option.

- **MOTORIZED OUTDOOR AIR INTAKE DAMPER** - Includes a slide-in / plug-in damper assembly with a 2-position, spring return motor actuator which opens to some pre-set position whenever the supply air blower is operating and will drive fully closed when the blower unit shuts down.

The rain hood is painted to match the basic unit and must be field assembled before installing.

Power exhaust is not available as a field installed option.

- **ROOF CURBS** - Fourteen-inch high roof curbs provide a water-tight seal between the unit and the finished roof. These full perimeter curbs meet the requirements of the National Roofing Contractors Association (NRCA) and are shipped knocked-down for field assembly.

They're designed to fit inside the base rails of the unit and include both a wood nailing strip and duct hanger supports.

- **HIGH ALTITUDE NATURAL GAS** - Burner orifices and pilot orifices are provided for proper furnace operation at altitudes up to 6,000 feet.
- **PROPANE** - Burner orifices, pilot orifices and gas valve parts are provided to convert a natural gas furnace to propane.
- **HIGH ALTITUDE PROPANE** - Burner orifices and pilot orifices are provided for proper furnace operation at altitudes up to 6,000 feet. This accessory supplements the basic propane conversion kit.
- **SIDE DUCT FLANGES** - One-inch flanges replace the supply and return air panels on the rear of the unit to accommodate horizontal duct connections. These flanges can also be used individually for bottom supply/horizontal return or horizontal supply/bottom return. They cannot be used on units with power exhaust.

- **BAROMETRIC RELIEF DAMPER** - This damper accessory can be used to relieve internal building air pressure on units with an economizer without power exhaust. This accessory includes a rain hood, a bird screen and a fully assembled damper. With bottom duct connections, the damper should be mounted over the opening in the return air panel. With horizontal ductwork, the accessory should be mounted on the return air duct.

- **HIGH SPEED DRIVE** - A smaller blower pulley and a shorter belt increase the speed of the supply air blower for applications with a higher CFM and/or static pressure requirements.

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TABLE 7: STANDARD EFFICIENCY DM MODELS

Size (Tons)	Model	Cooling Capacities ARI Ratings*			CFM	Sound Rating (dB)†	Nominal Electric Heat Capacity‡ (kW)	Gas Heat Capacity				Gas Line Size (in. OD)
		MBH	EER	IPLV				Input (MBH)	Output (MBH)	Seasonal Efficiency (%)	Temp. Rise (°F)	
(078) 6-1/2	Cooling Only	77	9.0	9.45	2600	84	-	-	-	-	-	-
	Electric Heat						9, 18, 24, 34	-	-	-	-	-
	Gas Heat						-	120	96	80	20-50	3/4
	Gas Heat						-	180	144	80	35-65	3/4
(090) 7-1/2	Cooling Only	88	9.0	10.15	3000	84	-	-	-	-	-	-
	Electric Heat						9, 18, 24, 34	-	-	-	-	-
	Gas Heat						-	120	96	80	15-45	3/4
	Gas Heat						-	180	144	80	30-60	3/4
(102) 8-1/2	Cooling Only	98	9.0	9.35	3000	90	-	-	-	-	-	-
	Electric Heat						9, 18, 24, 34	-	-	-	-	-
	Gas Heat						-	120	96	80	15-45	3/4
	Gas Heat						-	180	144	80	10-40	3/4
(120) 10	Cooling Only	120	9.0	9.10	4000	90	-	-	-	-	-	-
	Electric Heat						9, 24, 34, 54	-	-	-	-	-
	Gas Heat						-	180	144	80	20-50	3/4
	Gas Heat						-	240	192	80	35-65	3/4
(150) 12-1/2	Cooling Only	140	9.0	9.25	4500	90	-	-	-	-	-	-
	Electric Heat						9, 24, 34, 54	-	-	-	-	-
	Gas Heat						-	180	144	80	10-40	3/4
	Gas Heat						-	240	192	80	25-55	3/4

* Rated at 95°F ambient 80°F dry bulb and 67°F wet bulb.

† Rated in accordance with ARI 270 standard.

‡ See Table 19.

TABLE 8: UNIT VOLTAGE LIMITATIONS

POWER RATING	MIN.	MAX.
208/230-3-60	187	252
460-3-60	432	504
575-3-60	540	630

- **ENTHALPY ACCESSORY CONTROL KIT** - This kit contains the required components to convert a single enthalpy economizer to dual enthalpy.
- **BURGLAR BARS** - Mount in the supply and return openings to prevent entry into the duct work.
- **FLUE EXHAUST EXTENSION KIT** - In locations with wind or weather conditions which may interfere with proper exhausting of furnace combustion products, this kit can be installed to prevent the flue exhaust from entering nearby fresh air intakes.
- **WOOD SKID** - Allows unit to be handled with 90° forks.
- **CO₂ SENSOR** - Senses CO₂ levels and automatically overrides the economizer when levels rise above the present limits.
- **COIL GUARD** - Customers can purchase a coil guard kit to protect the condenser coil from damage. This is not a hail guard kit.
- **PHASE MONITORS** - Designed to prevent unit damage. The phase monitor will shut the unit down in an out-of-phase condition.

TABLE 1: SOUND POWER RATING¹

UNIT SIZE	CFM	ESP	BLOWER		SOUND POWER (db 10 ⁻¹² Watts)										SWL dB(A)	dB(A) @ 10 Ft. ²
					Octave Band Centerline Frequency (Hz)											
					IWG	RPM	BHP	83	125	250	500	1,000	2,000	4,000		
180	6,000	1.00	1,080	4.60	99	99	89	82	84	77	72	67	89	56		
210/240	8,000	1.00	1,120	6.65	102	102	92	85	87	80	75	70	92	59		
300	10,000	1.30	1160	12.5	108	108	98	91	93	86	81	76	98	65		

1. These values have been accessed using a model of sound propagation from a point source into the hemispherical/free field. The dBA values provided are to be used for reference only. Calculation of dBA values cover matters of system design and the fan manufacture has no way of knowing the details of each system. This constitutes an expectation to any specification or guarantee requiring a dBA value or sound data in any other form than sound power level ratings.
2. At a distance of 10 feet from the blower.

TABLE 2: CAPACITY RATINGS - (ARI 360)¹

MODEL	MBH	EER ²	IPLV ³
COOLING ONLY			
DJ180C/E00	178	11.8	13.0
DJ210C/E00	208	11.7	12.7
DJ240C/E00	230	11.3	12.0
DJ300C/E00	292	10.5	11.2
COOLING WITH GAS HEAT			
DJ180N/S	178	11.8	13.0
DJ210N/S	208	11.7	12.7
DJ240N/S	230	11.3	12.0
DJ300N/S	292	10.5	11.2
COOLING WITH ELECTRIC HEAT			
DJ180E18	178	11.8	13.0
DJ180E36	178	11.8	13.0
DJ180E54	176	11.6	12.7
DJ180E72	176	11.6	12.7
DJ210E18	208	11.7	12.7
DJ210E36	208	11.7	12.7
DJ210E54	206	11.5	12.4
DJ210E72	206	11.5	12.4
DJ240E18	230	11.3	12.0
DJ240E36	230	11.3	12.0
DJ240E54	228	11.1	11.7
DJ240E72	228	11.1	11.7
DJ300E18	292	10.5	11.2
DJ300E36	292	10.5	11.2
DJ300E54	290	10.3	11.0
DJ300E72	290	10.3	11.0

1. Certified in accordance with the Unitary Large Equipment certification program which is based on ARI Standard 340/360.
2. EER = Energy Efficiency Ratio at full load - the cooling capacity in Btu's per hour (Btuh) divided by the power input in watts, expressed in Btuh per watt (Btuh/watt).
3. IPLV = Integrated Part Load Value.

TABLE 3: GAS HEAT RATINGS

MODEL	MBH INPUT	MBH OUTPUT
DJ180N/S24	300	240
DJ180N/S32	400	320
DJ210N/S24	300	240
DJ210N/S32	400	320
DJ240N/S24	300	240
DJ240N/S32	400	320
DJ300N/S24	300	240
DJ300N/S32	400	320

NOTE: All gas units are two-stage heating.

First stage is 50% of total.

S.S.E. = Steady State Efficiency (80%) - output divided by input.

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TABLE 10: COOLING CAPACITY 7-1/2 TON UNIT

Air On Evap. Coil		Temperature of Air on Condenser Coil 85°F									Temperature of Air on Condenser Coil 95°F										
CFM	WB (°F)	Tot. Cap. (MBH)	Tot. Input† (kW)	Sensible Capacity (MBH) Return Dry Bulb (°F)						Tot. Cap. (MBH)	Tot. Input† (kW)	Sensible Capacity (MBH) Return Dry Bulb (°F)									
				86	83	80	77	74	71			68	86	83	80	77	74	71	68		
2250	72	98	7.9	58	51	45	39	32	-	-	91	8.4	55	49	42	36	29	-	-	-	-
	67	90	7.7	71	65	59	52	46	39	33	84	8.2	68	62	56	49	43	36	30	-	-
	62	83	7.5	83	78	71	65	59	52	46	76	8.0	76	74	68	61	55	49	42	-	-
	57	79	7.4	79	79	73	67	61	54	48	73	7.9	73	73	68	62	55	49	42	-	-
2625	72	100	7.9	63	55	48	40	33	-	-	94	8.5	60	53	45	38	30	-	-	-	-
	67	92	7.8	78	70	62	55	47	40	32	87	8.3	75	67	60	52	45	37	29	-	-
	62	85	7.6	85	82	76	69	61	53	46	78	8.0	78	77	73	65	58	50	42	-	-
	57	81	7.5	81	81	78	71	63	55	48	78	8.0	76	78	73	66	58	50	43	-	-
3000	72	102	8.0	68	60	51	42	33	-	-	96	8.6	66	57	48	40	31	-	-	-	-
	67	94	7.8	84	75	66	57	49	40	31	89	8.3	81	73	64	55	46	38	29	-	-
	62	87	7.6	87	87	81	72	63	54	46	81	8.1	81	81	78	69	60	52	43	-	-
	57	83	7.6	83	83	83	74	65	57	48	78	8.1	78	78	78	69	61	52	43	-	-
3375	72	103	8.1	73	63	53	43	33	-	-	97	8.6	70	60	50	40	30	-	-	-	-
	67	95	7.9	89	79	69	59	49	39	29	90	8.4	86	76	66	56	46	36	27	-	-
	62	88	7.7	88	88	84	74	64	54	44	81	8.2	81	81	80	70	60	50	40	-	-
	57	84	7.6	84	84	84	74	64	54	44	78	8.2	78	78	78	68	58	49	39	-	-
3750	72	104	8.1	77	66	55	43	32	-	-	97	8.7	75	63	52	41	30	-	-	-	-
	67	98	8.0	94	82	71	60	49	38	26	90	8.5	90	80	69	58	46	35	24	-	-
	62	88	7.7	88	88	87	76	64	53	42	81	8.3	81	81	81	70	59	48	36	-	-
	57	84	7.7	84	84	84	73	62	51	40	79	8.2	79	79	79	67	56	45	34	-	-
Temperature of Air on Condenser Coil 105°F																					
2250	72	85	8.9	52	46	39	33	27	-	-	79	9.5	49	43	37	30	24	-	-	-	-
	67	77	8.7	65	59	52	46	39	33	27	69	9.2	62	55	49	42	36	30	23	-	-
	62	70	8.5	70	69	62	56	50	43	37	63	9.0	63	63	57	51	44	38	31	-	-
	57	67	8.5	67	67	61	55	49	42	36	61	9.0	61	61	55	48	42	36	29	-	-
2625	72	87	9.0	58	50	43	35	27	-	-	81	9.6	55	47	40	32	25	-	-	-	-
	67	79	8.8	71	64	56	49	41	34	26	71	9.2	68	61	53	46	38	30	23	-	-
	62	72	8.5	72	71	68	60	52	45	37	65	9.1	65	65	62	55	47	39	32	-	-
	57	69	8.5	69	69	66	59	51	44	38	63	9.1	63	63	60	52	45	37	30	-	-
3000	72	90	9.1	63	55	46	37	28	-	-	84	9.7	61	52	43	34	26	-	-	-	-
	67	82	8.8	78	69	61	52	43	35	26	74	9.3	74	66	58	49	40	31	23	-	-
	62	74	8.6	74	74	73	64	55	46	38	67	9.1	67	67	67	59	50	41	32	-	-
	57	72	8.6	72	72	72	63	54	45	37	65	9.2	65	65	65	56	47	39	30	-	-
3375	72	90	9.2	68	58	48	38	28	-	-	84	9.7	65	55	45	35	25	-	-	-	-
	67	82	8.9	80	73	63	53	43	33	24	74	9.4	74	70	60	50	40	30	20	-	-
	62	74	8.7	74	74	74	64	54	44	34	68	9.2	68	68	68	58	48	38	28	-	-
	57	72	8.7	72	72	72	62	52	42	32	65	9.2	65	65	65	55	45	35	25	-	-
3750	72	91	9.3	72	61	50	39	27	-	-	84	9.8	70	58	47	36	25	-	-	-	-
	67	82	9.0	82	77	69	55	44	32	21	74	9.5	74	74	63	52	41	30	19	-	-
	62	74	8.8	74	74	74	63	52	41	30	68	9.3	68	68	68	57	45	34	23	-	-
	57	72	8.8	72	72	72	61	50	38	27	65	9.3	65	65	65	54	43	32	20	-	-
Temperature of Air on Condenser Coil 125°F																					
2250	72	73	10.0	47	40	34	27	21	-	-	-	-	-	-	-	-	-	-	-	-	-
	67	62	9.6	58	52	45	39	33	26	20	-	-	-	-	-	-	-	-	-	-	-
	62	57	9.5	57	57	52	45	39	32	26	-	-	-	-	-	-	-	-	-	-	-
	57	55	9.5	55	55	48	42	36	29	23	-	-	-	-	-	-	-	-	-	-	-
2625	72	75	10.1	52	45	37	30	22	-	-	-	-	-	-	-	-	-	-	-	-	-
	67	64	9.7	64	58	50	42	35	27	20	-	-	-	-	-	-	-	-	-	-	-
	62	59	9.6	59	59	57	49	42	34	27	-	-	-	-	-	-	-	-	-	-	-
	57	56	9.6	56	56	53	46	38	31	23	-	-	-	-	-	-	-	-	-	-	-
3000	72	78	10.2	58	49	41	32	23	-	-	-	-	-	-	-	-	-	-	-	-	-
	67	66	9.8	66	63	54	46	37	28	19	-	-	-	-	-	-	-	-	-	-	-
	62	61	9.7	61	61	61	53	45	36	27	-	-	-	-	-	-	-	-	-	-	-
	57	58	9.7	58	58	58	49	41	32	23	-	-	-	-	-	-	-	-	-	-	-
3375	72	78	10.3	63	53	43	33	23	-	-	-	-	-	-	-	-	-	-	-	-	-
	67	66	9.9	66	66	57	47	37	27	17	-	-	-	-	-	-	-	-	-	-	-
	62	61	9.8	61	61	61	52	42	32	22	-	-	-	-	-	-	-	-	-	-	-
	57	58	9.8	58	58	58	48	38	28	18	-	-	-	-	-	-	-	-	-	-	-
3750	72	78	10.4	67	56	45	34	22	-	-	-	-	-	-	-	-	-	-	-	-	-
	67	66	10.0	66	66	60	49	38	27	15	-	-	-	-	-	-	-	-	-	-	-
	62	61	9.9	61	61	61	50	39	27	16	-	-	-	-	-	-	-	-	-	-	-
	57	58	9.9	58	58	58	47	36	25	14	-	-	-	-	-	-	-	-	-	-	-

• These capacities are gross ratings. For net capacity, deduct air blower motor, MBH = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.

† These ratings include condenser fan motors and the compressor motors but not the supply air blower motor.

* These capacities are gross ratings. For net capacity, deduct air blower motor, MBH = 3.415 x kW. Refer to the appropriate Blower Performance Table for the kW of the supply air blower motor.

† These ratings include condenser fan motors and the compressor motors but not the supply air blower motor.

TABLE 9: COOLING CAPACITIES FOR DJ210 AT 85°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 85								
CFM	WB TEMP °F	GROSS CAPACITY ¹ (MBH)	INPUT POWER ² (kW)	GROSS SENSIBLE CAPACITY ¹ (MBH) (RETURN AIR DRY-BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	238.9	14.24	142.6	125.5	108.4	91.3	74.2	#N/A	#N/A
	67	221.2	13.83	178.6	161.5	144.4	127.3	110.2	93.1	76.0
	62	207.4	13.57	207.4	192.8	175.7	158.5	141.4	124.3	107.2
	57	197.6	13.52	197.6	195.7	178.6	161.4	144.3	127.2	110.1
6500	72	246.1	14.36	154.5	135.8	117.0	98.3	79.5	#N/A	#N/A
	67	227.9	13.95	193.5	174.7	156.0	137.2	118.4	99.7	80.9
	62	213.7	13.69	213.7	206.4	189.7	170.9	152.2	133.4	114.6
	57	203.6	13.64	203.6	202.6	192.8	174.1	155.3	136.5	117.8
7000	72	253.4	14.48	166.5	146.1	125.7	105.3	84.9	#N/A	#N/A
	67	234.6	14.06	208.3	187.9	167.5	147.1	126.7	106.3	85.9
	62	220.0	13.80	220.0	220.0	203.7	183.3	162.9	142.5	122.1
	57	209.6	13.75	209.6	209.6	207.1	186.7	166.2	145.8	125.4
7875	72	258.4	14.56	180.9	157.6	134.4	111.2	87.9	#N/A	#N/A
	67	239.3	14.14	225.6	202.4	179.1	155.9	132.6	109.4	86.1
	62	224.4	13.88	224.4	224.4	216.2	193.0	169.7	146.5	123.2
	57	213.8	13.82	213.8	213.8	212.5	189.2	166.0	142.8	119.5
8750	72	263.5	14.63	195.3	169.2	143.1	117.0	91.0	#N/A	#N/A
	67	243.9	14.21	242.9	216.8	190.7	164.7	138.6	112.5	86.4
	62	228.7	13.95	228.7	228.7	228.7	202.6	176.6	150.5	124.4
	57	217.9	13.90	217.9	217.9	217.9	191.8	165.8	139.7	113.6

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 15: ELECTRICAL DATA 7-1/2 TON - STANDARD EFFICIENCY

Model	Compressors		OD Fan Motors	Supply Blower Motor FLA		Pwr Exh Motor	Electric Heater Model No.	Actual kW	Heater Amps	Min. Circuit Ampacity (Amps)		MCA w/Power Exhaust (Amps)		Max Fuse Size (Amps)		Max Fuse Size w/Power Exhaust (Amps)	
	FLA ea.	LRA ea.	FLA ea.	1.5 HP	2 HP	FLA				1.5 HP	2 HP	1.5 HP	2 HP	1.5 HP	2 HP	1.5 HP	2 HP
208	13.5	130	1.5	6.2	8.2	5.5	None	-	-	39.6	41.6	45.1	47.1	50	50	50	60
							2TP04510825	6.8	18.9	39.6	41.6	45.1	47.1	50	50	50	60
							2TP04511825	13.5	37.5	54.6	57.1	61.5	64.0	60	60	70	70
							2TP04512425	18.0	50.0	70.2	72.7	77.1	79.6	80	80	80	80
							2TP04513625	25.5	70.8	86.2	88.7	103.1	105.6	100	100	110	110
230	13.5	130	1.5	6.2	8.2	5.5	None	-	-	39.6	41.6	45.1	47.1	50	50	50	60
							2TP04510925	9.0	21.7	39.6	41.6	45.1	47.1	50	50	50	60
							2TP04511825	18.0	43.3	61.9	64.4	68.8	71.3	70	70	70	80
							2TP04512425	24.0	57.7	79.8	82.4	86.8	89.3	80	90	80	90
							2TP04513625	34.0	81.8	110.0	112.5	116.9	119.4	110	125	125	125
450	7.1	54	0.8	3.1	4.1	2.2	None	-	-	20.7	21.7	22.9	23.9	25	25	25	30
							2TP04510948	9.0	10.8	20.7	21.7	22.9	23.9	25	25	25	30
							2TP04511846	18.0	21.7	30.9	32.2	33.7	34.9	35	35	35	35
							2TP04512446	24.0	28.9	40.0	41.2	42.7	44.0	40	45	45	45
							2TP04513648	34.0	40.9	55.0	56.2	57.7	59.0	60	60	60	60
575	5.4	.44	0.6	2.4	3.6	1.8	None	-	-	15.8	17.0	17.6	18.8	20	20	20	20
							2TP04510958	9.0	8.7	15.8	17.0	17.6	18.8	20	20	20	20
							2TP04511858	18.0	17.3	24.7	26.2	26.9	28.4	25	30	30	30
							2TP04512458	24.0	23.1	31.9	33.4	34.1	35.6	35	35	35	40
							2TP04513858	34.0	32.7	43.9	45.4	46.1	47.6	45	50	50	50

* Maximum HACR breaker of the same AMP size is applicable.

TABLE 10: COOLING CAPACITIES FOR DJ210 AT 95°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 95								
CFM	WB TEMP °F	GROSS CAPACITY ¹ (MBH)	INPUT POWER ² (KW)	GROSS SENSIBLE CAPACITY ¹ (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	222.9	15.81	136.5	119.4	102.3	85.2	68.1	#N/A	#N/A
	67	207.1	15.38	172.8	155.7	138.6	121.5	104.4	87.2	70.1
	62	197.6	15.09	197.6	181.0	163.8	146.7	129.6	112.5	95.4
	57	186.0	15.06	186.0	181.8	164.7	147.6	130.5	113.4	96.3
6500	72	231.8	15.91	149.7	130.9	112.2	93.4	74.6	#N/A	#N/A
	67	215.4	15.48	189.4	170.7	151.9	133.2	114.4	95.6	76.9
	62	205.5	15.19	205.5	197.1	179.6	160.9	142.1	123.4	104.6
	57	193.5	15.15	193.5	191.3	180.6	161.8	143.1	124.3	105.5
7000	72	240.7	16.00	162.8	142.4	122.0	101.6	81.2	#N/A	#N/A
	67	223.6	15.57	206.1	185.7	165.3	144.8	124.4	104.0	83.6
	62	213.3	15.28	213.3	213.3	195.4	175.0	154.6	134.2	113.8
	57	200.9	15.24	200.9	200.9	196.4	176.0	155.6	135.2	114.8
7675	72	243.3	16.09	176.8	153.6	130.3	107.1	83.8	#N/A	#N/A
	67	226.0	15.65	217.3	199.8	176.5	153.3	130.0	106.8	83.5
	62	215.6	15.36	215.6	215.6	206.7	183.4	160.2	136.9	113.7
	57	203.0	15.32	203.0	203.0	200.8	177.6	154.3	131.1	107.8
8750	72	245.9	16.17	190.8	164.7	138.7	112.6	86.5	#N/A	#N/A
	67	228.4	15.73	228.4	213.9	187.8	161.7	135.6	109.5	83.5
	62	217.9	15.43	217.9	217.9	217.9	191.8	165.8	139.7	113.6
	57	205.2	15.40	205.2	205.2	205.2	179.1	153.0	126.9	100.9

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 11: COOLING CAPACITIES FOR DJ210 AT 105°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 105								
CFM	WB TEMP °F	GROSS CAPACITY ¹ (MBH)	INPUT POWER ² (kW)	GROSS SENSIBLE CAPACITY ¹ (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	210.2	17.65	131.0	113.9	96.8	79.7	62.6	#N/A	#N/A
	67	195.1	17.21	167.5	150.4	133.3	116.2	99.1	82.0	64.9
	62	186.9	17.01	186.9	170.6	153.5	136.4	119.3	102.2	85.1
	57	174.4	16.80	174.4	172.3	155.2	138.1	121.0	103.9	86.8
6500	72	218.3	17.77	143.8	125.0	106.3	87.5	68.7	#N/A	#N/A
	67	202.6	17.33	183.9	165.1	146.4	127.6	108.8	90.1	71.3
	62	194.1	17.12	194.1	186.0	168.5	149.8	131.0	112.2	93.5
	57	181.1	16.92	181.1	180.1	170.4	151.7	132.9	114.1	95.4
7000	72	226.4	17.89	156.6	136.2	115.7	95.3	74.9	#N/A	#N/A
	67	210.1	17.45	200.2	179.8	159.4	139.0	118.6	98.2	77.8
	62	201.3	17.24	201.3	201.3	183.6	163.1	142.7	122.3	101.9
	57	187.8	17.03	187.8	187.8	185.6	165.2	144.8	124.4	104.0
7875	72	228.5	17.97	171.3	148.0	124.8	101.5	78.3	#N/A	#N/A
	67	212.1	17.53	207.1	193.3	171.9	148.6	125.4	102.2	78.9
	62	203.2	17.32	203.2	203.2	194.3	171.0	147.8	124.5	101.3
	57	189.6	17.11	189.6	189.6	188.5	165.2	142.0	118.7	95.5
8750	72	230.8	18.05	186.0	159.9	133.8	107.7	81.7	#N/A	#N/A
	67	214.0	17.61	214.0	206.7	184.4	158.3	132.2	106.1	80.0
	62	205.0	17.40	205.0	205.0	205.0	178.9	152.8	126.8	100.7
	57	191.3	17.19	191.3	191.3	191.3	165.2	139.1	113.0	87.0

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 12: COOLING CAPACITIES FOR DJ210 AT 115°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 115								
CFM	WB TEMP °F	GROSS CAPACITY ¹ (MBH)	INPUT POWER ² (kW)	GROSS SENSIBLE CAPACITY ¹ (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	197.6	19.49	125.5	108.3	91.2	74.1	57.0	#N/A	#N/A
	67	183.1	19.04	162.2	145.1	128.0	110.9	93.8	76.7	59.6
	62	176.3	18.92	176.3	160.2	143.1	126.0	108.9	91.8	74.7
	57	162.8	18.55	162.8	162.8	145.7	128.6	111.5	94.4	77.3
6500	72	204.8	19.63	137.9	119.1	100.3	81.6	62.8	#N/A	#N/A
	67	189.9	19.18	178.3	159.5	140.8	122.0	103.3	84.5	65.8
	62	182.8	19.06	182.8	174.8	157.4	138.6	119.9	101.1	82.4
	57	168.8	18.69	168.8	168.8	160.3	141.5	122.8	104.0	85.2
7000	72	212.1	19.77	150.3	129.9	109.5	89.0	68.6	#N/A	#N/A
	67	196.6	19.32	194.4	174.0	153.6	133.2	112.7	92.3	71.9
	62	189.3	19.20	189.3	189.3	171.7	151.3	130.9	110.5	90.0
	57	174.8	18.82	174.8	174.8	174.8	154.4	134.0	113.6	93.2
7875	72	213.7	19.85	165.7	142.5	119.2	96.0	72.7	#N/A	#N/A
	67	198.1	19.40	197.0	186.8	167.3	144.0	120.8	97.5	74.3
	62	190.7	19.28	190.7	190.7	181.9	158.6	135.4	112.1	88.9
	57	176.1	18.90	176.1	176.1	176.1	152.9	129.6	106.4	83.1
8750	72	215.2	19.94	181.1	155.1	129.0	102.9	76.8	#N/A	#N/A
	67	199.5	19.48	199.5	199.5	181.0	154.9	128.8	102.7	76.6
	62	192.1	19.36	192.1	192.1	192.1	166.0	139.9	113.8	87.8
	57	177.4	18.98	177.4	177.4	177.4	151.3	125.2	99.1	73.1

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

TABLE 13: COOLING CAPACITIES FOR DJ210 AT 125°F

RETURN AIR		OUTDOOR AMBIENT TEMPERATURE (°F): 125								
CFM	WB TEMP °F	GROSS CAPACITY ¹ (MBH)	INPUT POWER ² (kW)	GROSS SENSIBLE CAPACITY ¹ (MBH) (RETURN AIR DRY BULB TEMP. - (°F))						
				86	83	80	77	74	71	68
6000	72	184.9	21.33	119.9	102.8	85.7	68.6	51.5	#N/A	#N/A
	67	171.1	20.87	156.9	139.8	122.7	105.6	88.5	71.4	54.3
	62	165.7	20.84	165.7	149.9	132.7	115.6	98.5	81.4	64.3
	57	151.2	20.30	151.2	151.2	136.2	119.1	102.0	84.9	67.8
6500	72	191.4	21.49	132.0	113.2	94.4	75.7	58.9	#N/A	#N/A
	67	177.1	21.03	172.7	154.0	135.2	116.5	97.7	79.0	60.2
	62	171.5	21.00	171.5	163.6	146.3	127.5	108.8	90.0	71.3
	57	156.5	20.46	156.5	156.5	150.1	131.4	112.6	93.8	75.1
7000	72	197.8	21.65	144.0	123.6	103.2	82.8	62.3	#N/A	#N/A
	67	183.1	21.19	183.1	168.1	147.7	127.3	106.9	86.5	66.1
	62	177.3	21.16	177.3	177.3	159.8	139.4	119.0	98.6	78.2
	57	161.8	20.61	161.8	161.8	161.8	143.6	123.2	102.8	82.4
7875	72	198.9	21.74	160.2	136.9	113.7	90.4	67.2	#N/A	#N/A
	67	184.1	21.27	184.1	180.2	162.6	139.4	116.2	92.9	69.7
	62	178.2	21.24	178.2	178.2	169.5	146.3	123.0	99.8	76.5
	57	162.6	20.69	162.6	162.6	162.6	140.5	117.3	94.0	70.8
8750	72	199.9	21.82	176.3	150.2	124.2	98.1	72.0	#N/A	#N/A
	67	185.1	21.35	185.1	185.1	177.8	151.5	125.4	99.3	73.2
	62	179.2	21.32	179.2	179.2	179.2	153.1	127.0	100.9	74.8
	57	163.5	20.77	163.5	163.5	163.5	137.4	111.3	85.2	59.2

1. The capacities are gross ratings. For net capacity, deduct the supply air blower motor heat, MBH = 3.415 x kW. Refer to the appropriate blower performance table for the kW of the supply air blower motor.
2. These ratings include condenser fan motor and compressor motor power but not the supply air blower motor power.

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TABLE 26: BLOWER PERFORMANCE 7-1/2 TON DOWNSHOT

CFM	External Static Pressure																	
	0.2		0.4		0.6		0.8		1.0		1.2		1.4		1.6			
	RPM	BHP	Watts	RPM	BHP	Watts	RPM	BHP	Watts	RPM	BHP	Watts	RPM	BHP	Watts	RPM	BHP	Watts
2200	791	0.78	726	800	1.09	1015	889	1.23	1149	950	1.36	1272	1004	1.54	1435	1046	1.71	1597
2300	798	0.87	811	839	1.16	1077	897	1.29	1203	958	1.43	1330	1011	1.61	1497	1052	1.78	1660
2400	808	0.96	894	848	1.22	1138	906	1.35	1259	966	1.49	1389	1018	1.67	1561	1058	1.85	1725
2500	814	1.05	977	857	1.29	1200	915	1.41	1314	974	1.56	1450	1025	1.74	1628	1064	1.92	1790
2600	822	1.14	1058	865	1.35	1261	924	1.47	1371	982	1.62	1512	1032	1.82	1682	1070	1.99	1857
2700	830	1.22	1139	874	1.42	1323	933	1.53	1429	990	1.69	1576	1039	1.89	1760	1078	2.07	1925
2800	838	1.31	1218	883	1.49	1384	941	1.60	1488	998	1.76	1640	1046	1.96	1829	1086	2.15	2000
2900	846	1.39	1299	892	1.55	1446	950	1.68	1548	1007	1.83	1707	1053	2.04	1899	1096	2.23	2071
3000	854	1.47	1379	900	1.62	1508	959	1.73	1609	1015	1.90	1774	1060	2.11	1971	1106	2.31	2142
3100	862	1.55	1449	909	1.68	1569	968	1.79	1671	1023	1.98	1843	1068	2.20	2044	1116	2.39	2213
3200	869	1.64	1524	918	1.75	1631	976	1.86	1734	1031	2.05	1914	1076	2.28	2117	1126	2.47	2284
3300	877	1.71	1598	927	1.82	1692	985	1.93	1788	1039	2.13	1986	1084	2.36	2190	1136	2.55	2355
3400	885	1.82	1673	936	1.88	1754	994	2.00	1853	1047	2.21	2059	1092	2.44	2263	1146	2.63	2426
3500	893	1.87	1742	944	1.95	1816	1003	2.07	1928	1055	2.29	2132	1100	2.52	2336	1156	2.71	2497
3600	899	1.92	1806	953	2.01	1877	1012	2.14	1995	1063	2.36	2205	1108	2.60	2409	1164	2.79	2568
3700	901	1.95	1813	953	2.01	1877	1012	2.14	1995	1063	2.36	2205	1108	2.60	2409	1164	2.79	2568
3800	909	2.02	1883	962	2.08	1939	1020	2.21	2063	1071	2.43	2278	1116	2.68	2482	1172	2.87	2639
3900	917	2.09	1951	971	2.15	2000	1028	2.29	2132	1079	2.49	2349	1124	2.75	2555	1180	2.95	2710

High Horsepower Option Required

Motor Efficiency 0.8

Std HP Motor 1.5

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TABLE 30: ADDITIONAL STATIC RESISTANCE

CFM	Cooling Only*	Economizer† ‡	Electric Heat KW ¹				
			9	18	24	36	54
1900	0.06	0.02	0.05	0.06	0.07	0.08	0.10
2100	0.07	0.02	0.06	0.07	0.08	0.09	0.11
2300	0.08	0.02	0.07	0.08	0.09	0.10	0.13
2500	0.09	0.02	0.08	0.09	0.10	0.11	0.14
2700	0.11	0.03	0.09	0.10	0.12	0.13	0.16
2900	0.12	0.03	0.10	0.11	0.13	0.14	0.18
3100	0.14	0.03	0.12	0.13	0.15	0.16	0.20
3300	0.16	0.03	0.13	0.14	0.17	0.18	0.22
3500	0.18	0.04	0.15	0.16	0.19	0.20	0.24
3700	0.20	0.04	0.17	0.18	0.21	0.22	0.26
3900	0.23	0.04	0.19	0.20	0.23	0.24	0.28
4100	0.25	0.04	0.21	0.22	0.25	0.26	0.31
4300	0.28	0.05	0.23	0.24	0.28	0.29	0.34
4500	0.30	0.05	0.25	0.26	0.30	0.31	0.37
4700	0.33	0.05	0.28	0.29	0.33	0.34	0.40
4900	0.36	0.05	0.30	0.31	0.35	0.37	0.43
5100	0.39	0.06	0.33	0.34	0.38	0.40	0.46
5300	0.42	0.06	0.35	0.37	0.41	0.43	0.49
5500	0.45	0.06	0.38	0.40	0.44	0.46	0.53
5700	0.48	0.06	0.41	0.43	0.47	0.49	0.56
5900	0.52	0.07	0.44	0.46	0.50	0.53	0.59
6100	0.56	0.07	0.47	0.49	0.53	0.56	0.62
6300	0.60	0.07	0.50	0.53	0.56	0.59	0.65

* Add these resistance values to the available static resistance in the respective Blower Performance Tables.

† Deduct these resistance values from the available external static pressure shown in the respective Blower Performance Table.

‡ The pressure drop through the economizer is greater for 100% outdoor air than for 100% return air. If the resistance of the return air duct system is less than 0.25 IWG, the unit will deliver less CFM during full economizer operation.

TABLE 31: INDOOR BLOWER SPECIFICATIONS

MODEL	MOTOR					MOTOR SHEAVE			BLOWER SHEAVE			BELT
	HP	RPM	Eff.	SF	Frame	Datum Dia. (in.)	Bore (in.)	Model	Datum Dia. (in.)	Bore (in.)	Model	
DM078	1-1/2	1725	80%	1.15	56	3.4 - 4.4	7/8	1VM50	9.5	1	AK99	A58
	2	1725	80%	1.15	56	3.4 - 4.4	7/8	1VM50	7.5	1	AK79	A55
DM090	1-1/2	1725	80%	1.15	56	3.4 - 4.4	7/8	1VM50	9.0	1	AK94	A57
	2	1725	80%	1.15	56	3.4 - 4.4	7/8	1VM50	7.5	1	AK79	A55
DM102	2	1725	80%	1.15	56	3.4 - 4.4	7/8	1VM50	9.0	1	AK94	A56
	3	1725	80%	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
DM120	2	1725	80%	1.15	56	3.4 - 4.4	7/8	1VM50	8.5	1	AK89	A56
	3	1725	80%	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
DM150	3	1725	80%	1.15	56	3.4 - 4.4	7/8	1VM50	7.0	1	AK74	A54
	5	1725	87%	1.15	184T	4.3 - 5.3	1 1/8	1VP56	6.7	1	BK77	BX55

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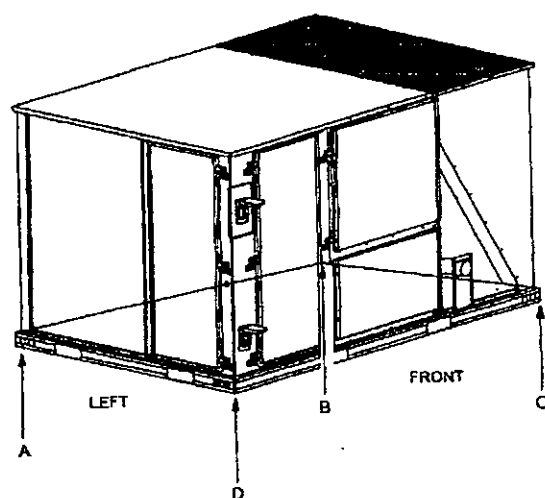


FIGURE 2 : UNIT 4 POINT LOAD

TABLE 32: 4 POINT LOAD WEIGHT

Model	Location (lbs.)			
	A	B	C	D
DM078	228	195	285	333
DM090	230	197	287	336
DM102	238	203	296	347
DM120	245	209	305	357
DM150	262	224	327	382

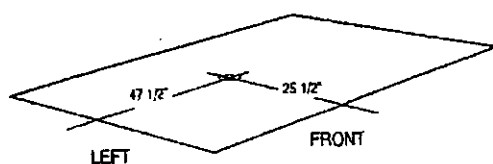


FIGURE 3 : UNIT CENTER OF GRAVITY

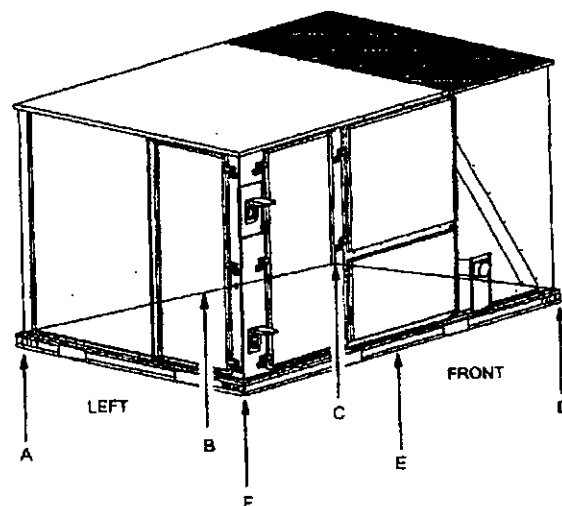


FIGURE 4 : UNIT 6 POINT LOAD

TABLE 33: 6 POINT LOAD WEIGHT

Model	Locations (lbs.)					
	A	B	C	D	E	F
DM078	156	140	127	185	205	228
DM090	158	142	128	187	207	230
DM102	163	146	132	192	213	237
DM120	168	151	136	198	219	244
DM150	180	161	145	212	235	262

TABLE 34: UNIT WEIGHT

Model	Shipping Weight (lbs.)	Operating Weight (lbs.)
DM078	1046	1041
DM090	1056	1051
DM102	1089	1084
DM120	1121	1116
DM150	1200	1195

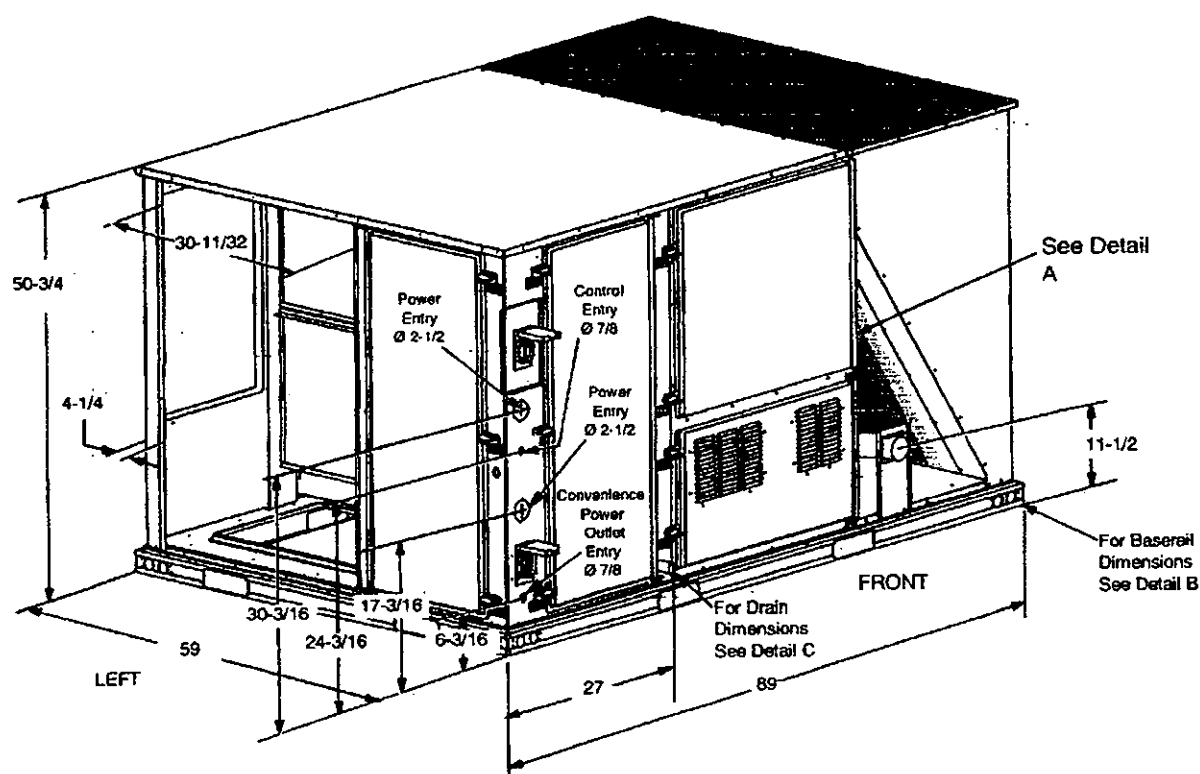
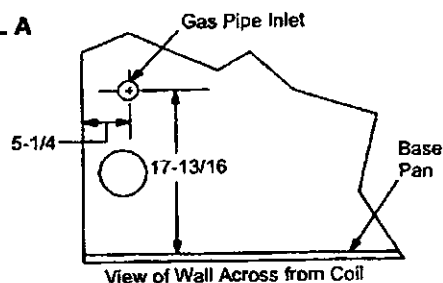


FIGURE 5: UNIT DIMENSIONS

DETAIL A



DETAIL B

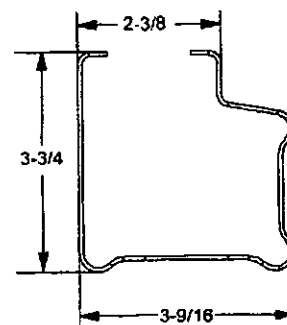


TABLE 35: UNIT CLEARANCES

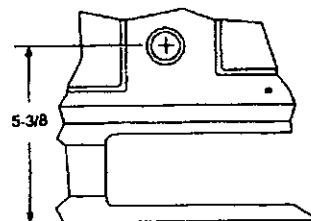
Top*	72"	Right	12"
Front	36"	Left	36"
Rear†	36"	Bottom‡	0"

* Units must be installed outdoors. Overhanging structure or shrubs should not obstruct condenser air discharge outlet.

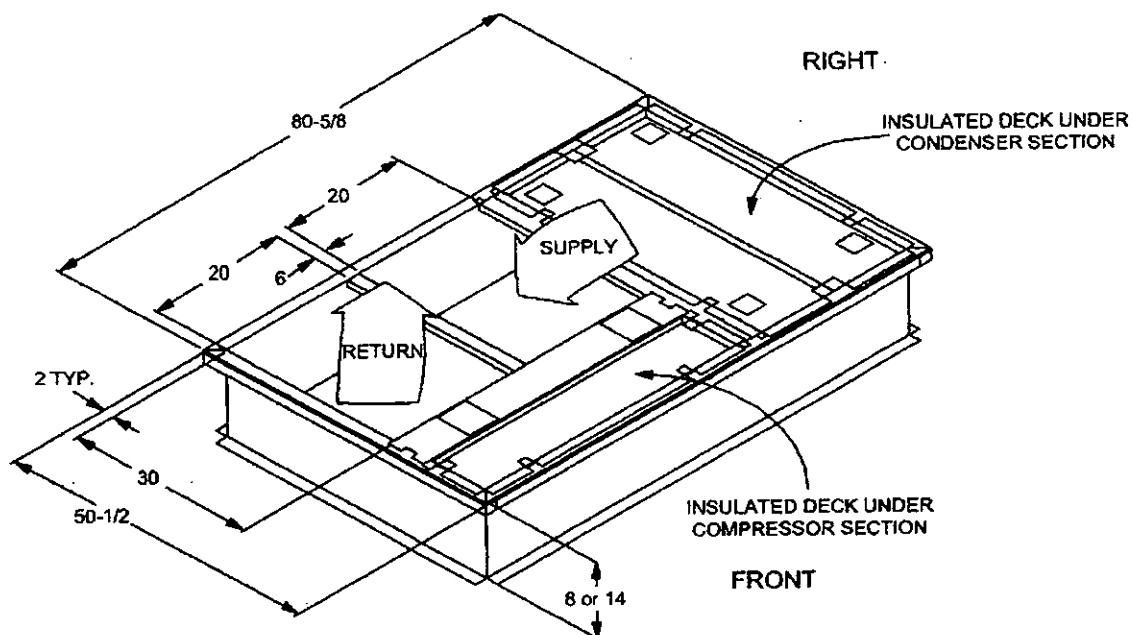
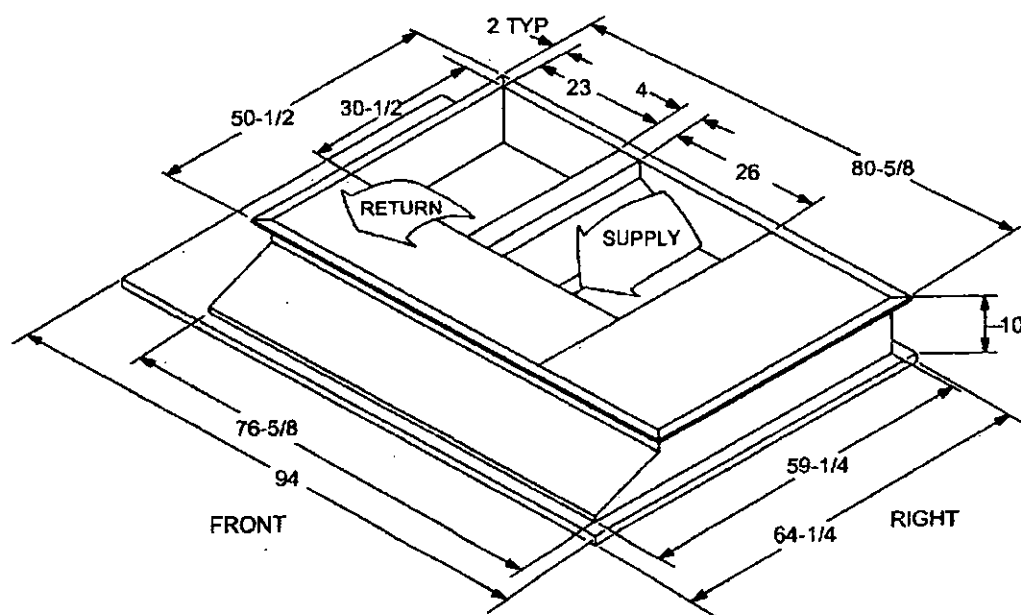
† To remove the slide-out drain pan, a rear clearance of 60" is required. If space is unavailable, the drain pan can be removed through the front by separating the corner wall.

‡ Units may be installed on combustible floors made from wood or class A, B or C roof covering materials.

DETAIL C



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**FIGURE 6 : PREDATOR™ ROOF CURB DIMENSIONS****FIGURE 7 : SUNLINE™ TO PREDATOR™ TRANSITION ROOF CURBS**

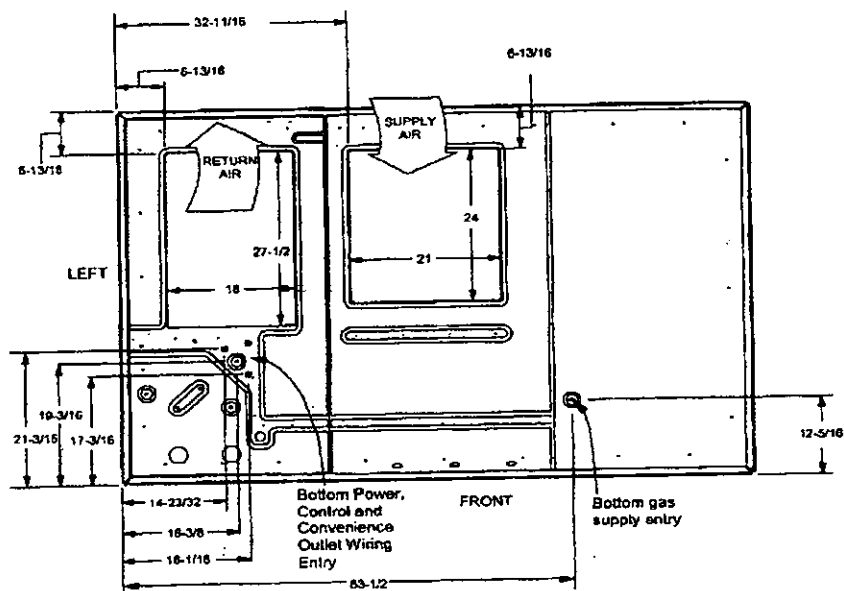


FIGURE 8: BOTTOM DUCT OPENINGS (FROM ABOVE)

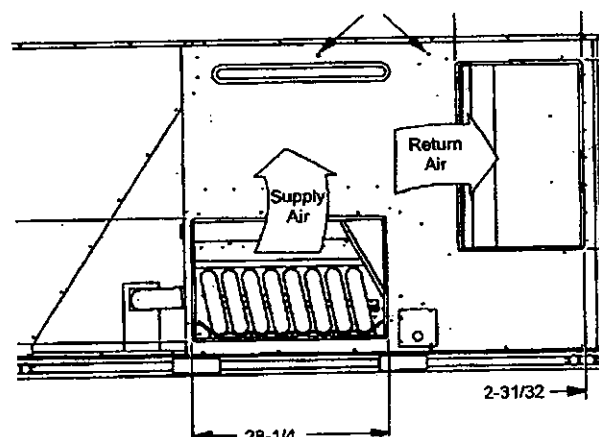


FIGURE 9: REAR DUCT DIMENSIONS

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TABLE 31: BLOWER MOTOR AND DRIVE DATA

MODEL SIZE	DRIVE	BLOWER RANGE (RPM)	MOTOR ¹			ADJUSTABLE MOTOR PULLEY				FIXED BLOWER PULLEY				BELT (NOTCHED)		QTY.
			HP	FRAME	EFF. (%)	DESIG-NATION	OUTSIDE DIA. (IN.)	PITCH DIA. (IN.)	BORE (IN.)	DESIG-NATION	OUTSIDE DIA. (IN.)	PITCH DIA. (IN.)	BORE (IN.)	DESIG-NATION	PITCH LENGTH (IN.)	
15 TON	Standard	850/1065	5	184 T	83	1VP58	5.35	4.3-5.3 ²	1-1/8	BK90	8.75	8.4	1	BX87	82.8	1
	High Speed Access	965/1190								BK80	7.75	7.4	1	BX78	79.8	1
17.5 & 20 TON	Standard	870/1025	7.5	213 T	89	1VP68	6.75	5.5-6.5 ²	1-3/8	BK120	11.75	11.4	1-3/16	BX83	84.8	1
	High Speed Access	950/1120								BK110	10.75	10.4	1-3/16	BX81	82.8	1
25 TON	Standard	975/1165	15	254 T	91	1VP75X	7.5	6.2-7.4 ²	1-5/8	1B5V110	11.3	11.1	1-7/16	5VXB60	86.0	1
	High Speed Access	1140/1365								1B5V94	9.7	9.5	1-7/16	5VXB40	84.0	1

- All motors have a nominal speed of 1800 RPM, a 1.15 service factor and a solid base. They can operate to the limit of their service factor because they are located in the moving air, upstream of any heating device.
- Do NOT close this pulley below 1 turn open.

TABLE 32: STATIC RESISTANCES¹

DESCRIPTION		RESISTANCE, IWG											
		CFM											
		15 TON			17.5 TON			20 TON			25 TON		
		4500	6000	7200	6000	7500	9000	6000	8000	9400	7500	10000	12500
WET INDOOR COIL		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.11	0.11
ELECTRIC HEAT OPTIONS	18 KW	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.31	0.56	0.87
	36 KW	0.1	0.2	0.3	0.1	0.2	0.3	0.1	0.2	0.3	0.38	0.68	1.07
	54 KW	0.2	0.3	0.4	0.2	0.3	0.4	0.2	0.3	0.4	0.62	1.10	1.72
	72 KW	0.2	0.4	0.6	0.2	0.4	0.6	0.2	0.4	0.6	0.68	1.21	1.90
ECONOMIZER OPTION		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.06	0.11	0.18
HORIZONTAL DUCT CONNECTIONS ²		0.1	0.2	0.3	0.2	0.3	0.5	0.2	0.3	0.5	0.36	0.32	0.46

- Deduct these resistance values from the available external static pressures shown in the respective Blower Performance Table (See Note 2 for exception.)
- Since the resistance to air flow will be less for horizontal duct connections than for bottom duct connections, add these pressures to the ESP values on the respective unit's blower performance table.

TABLE 33: POWER EXHAUST PERFORMANCE

MOTOR SPEED ¹	STATIC RESISTANCE OF RETURN DUCTWORK, IWG									
	0.2		0.3		0.4		0.5		0.6	
	CFM	KW	CFM	KW	CFM	KW	CFM	KW	CFM	KW
HIGH ²	5250	0.83	4500	0.85	4200	0.86	3750	0.93	3000	0.99
MEDIUM	4900	0.77	3900	0.79	3500	0.82	2900	0.85	-	-
LOW	4400	0.72	3700	0.74	3000	0.78	-	-	-	-

- Power exhaust motor is a 3/4 HP, PSC type with sleeve bearings, a 48 frame and inherent protection.
- The factory setting.

GUIDE SPECIFICATIONS

PREDATOR™ DM/DH 078, 090, 102, 120 & 150 9.0 to 11.5 EER

GENERAL

Units shall be manufactured by York International Unitary Products Group in an ISO 9001 certified facility. YORK® Predator™ units are convertible single packages with a common footprint cabinet and common roof curb for all 6-1/2 through 12-1/2 ton models. All units have two compressors with independent refrigeration circuits to provide 2 stages of cooling. The units were designed for light commercial applications and can be easily installed on a roof curb, slab, or frame. All Predator™ units are self-contained and assembled on rigid full perimeter base rails allowing for 3-way forklift access and overhead rigging. Every unit is completely charged, wired, piped, and tested at the factory to provide a quick and easy field installation. All units are convertible between side and down airflow. Independent economizer designs are used on side and down discharge applications, as well as all tonnage sizes. Predator™ units are available in the following configurations: cooling only, cooling with electric heat, and cooling with gas heat. Electric heaters are available as field-installed accessories.

DESCRIPTION

Units shall be factory assembled, single package, (Elec/Elec, Gas/Elec), designed for outdoor installation. Units shall have a minimum EER of 9.0. They shall have built in field convertible duct connections for down discharge supply/return or horizontal discharge supply/return and be available with factory installed options or field installed accessories. The units shall be factory wired, piped and charged with R-22 refrigerant and factory tested prior to shipment. All unit wiring shall be both numbered and color coded. The cooling performance shall be rated in accordance with DOE and ARI test procedures. Units shall be CSA certified to ANSI Z21.47 and UL 1995/CAN/CSA No. 236-M90 standards.

UNIT CABINET

Unit cabinet shall be constructed of G90 galvanized steel with exterior surfaces coated with a non-chalking, powder paint finish, certified at 750 hours salt spray test per ASTM-B117 standards. Indoor blower sections shall be insulated with up to 1" thick insulation coated on the airside. Aluminum foil faced insulation shall be used in the unit's compartments and be fastened to prevent insulation from entering the air stream. Cabinet doors shall be hinged with tool-less access for easy servicing and maintenance. Full perimeter base rails shall be provided to assure reliable transit of equipment, overhead rigging, fork truck access and proper sealing on roof curb applications. Disposable 2" filters shall be furnished and be accessible through hinged access door. Fan performance measuring ports shall be provided on the outside of the cabinet to allow accurate air measurements of evaporator fan performance without removing panels or creating bypass

of the coils. Condensate pan shall be slide out design, constructed of a non corrosive material, internally sloped and conforming to ASHRAE 62-B9 standards. Condensate connection shall be a minimum of 3/4" I.D. female and be rigid mount connection.

INDOOR (EVAPORATOR) FAN ASSEMBLY

Fan shall be a belt drive assembly and include an adjustable pitch motor pulley. Job site selected brake horsepower shall not exceed the motors nameplate horsepower rating plus the service factor. Units shall be designed to operate within the service factor. Fan wheel shall be double inlet type with forward curve blades, dynamically balanced to operate smoothly throughout the entire range of operation. Airflow design shall be constant volume. Bearings shall be sealed and permanently lubricated for longer life and no maintenance. Entire blower assembly and motor shall be slide out design.

OUTDOOR (CONDENSER) FAN ASSEMBLY

The outdoor fans shall be of the direct drive type, discharge air vertically, have aluminum blades riveted to corrosion resistant steel spider brackets and shall be dynamically balanced for smooth operation. The outdoor fan motors shall have permanently lubricated bearings internally protected against overload conditions and staged independently. A cleaning window shall be provided on two sides of the units for coil cleaning.

REFRIGERANT COMPONENTS

Compressors:

- A. Shall be fully hermetic type, direct drive, internally protected with internal high-pressure relief and over temperature protection. The hermetic motor shall be suction gas cooled and have a voltage range of + or - 10% of the unit nameplate voltage.
- B. Shall have internal spring isolation and sound muffling to minimize vibration and noise, and be externally isolated on a dedicated, independent mounting.

Coils:

- A. Evaporator and condenser coils shall have aluminum plate fins mechanically bonded to seamless internally enhanced copper tubes with all joints brazed. Special Phenolic coating shall be available as a factory option.
- B. Evaporator and condenser coils shall be of the direct expansion, draw-thru design.

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**TABLE 28: SUPPLY AIR BLOWER PERFORMANCE (17.5 TON) - GAS HEAT
210 MBH - BOTTOM DUCT CONNECTIONS**

BLOWER SPEED, (RPM)	MOTOR PULLEY (TURNS OPEN)*	CFM											
		6000			7000			8000			9000		
		ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW	ESP	BHP	KW
208 VOLT AND STANDARD DRIVE													
870	6.0**	1.3	3.6	3.0	0.7	4.3	3.7	0.2	5.1	4.3	-	-	-
900	5.0	1.4	3.8	3.2	0.9	4.7	4.0	0.4	5.6	4.7	-	-	-
930	4.0	1.6	4.1	3.4	1.1	5.0	4.2	0.6	5.9	5.0	0.1	6.7	5.7
950	3.0	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8
980	2.0	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1
995	1.5	2.1	4.6	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3
1015	1.0	2.2	4.8	4.0	1.7	4.7	4.8	1.2	6.8	5.6	0.7	7.8	6.6
208 VOLT AND HIGH SPEED DRIVE													
950	6.0	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8
980	5.0	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1
995	4.5	2.1	4.5	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3
1025	3.5	2.3	4.9	4.1	1.8	5.8	4.9	1.3	6.7	5.7	0.7	8.0	6.7
1050	2.5	2.5	5.1	4.3	2.0	6.1	5.1	1.4	7.1	6.0	0.9	8.4	7.0
1065	2.0	2.6	5.3	4.4	2.1	6.3	5.3	1.5	7.3	6.2	1.0	8.6	7.2
1100	1.0	2.9	5.6	4.7	2.3	6.8	5.7	1.8	7.9	6.6	-	-	-
230/460/575 VOLT AND STANDARD DRIVE													
870	6.0**	1.3	3.6	3.0	0.7	4.3	3.7	0.2	5.1	4.3	-	-	-
900	5.0	1.4	3.8	3.2	0.9	4.7	4.0	0.4	5.6	4.7	-	-	-
930	4.0	1.6	4.1	3.4	1.1	5.0	4.2	0.6	5.9	5.0	0.1	6.7	5.7
950	3.5	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8
965	2.5	1.8	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1
995	2.0	2.1	4.6	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3
1015	1.5	2.2	4.8	4.0	1.7	5.7	4.8	1.2	6.8	5.6	0.6	7.8	6.6
1025	1.0	2.3	4.9	4.1	1.8	5.8	4.9	1.3	6.7	5.7	0.7	8.0	6.7
230/460/575 VOLT AND HIGH SPEED DRIVE													
950	6.0	1.7	4.2	3.6	1.3	5.1	4.3	0.8	6.0	5.1	0.2	6.9	5.8
980	5.0	1.9	4.5	3.8	1.5	5.4	4.5	1.0	6.3	5.3	0.4	7.2	6.1
995	4.5	2.1	4.6	3.9	1.6	5.5	4.7	1.1	6.4	5.4	0.5	7.5	6.3
1015	4.0	2.2	4.8	4.0	1.7	5.7	4.8	1.2	6.8	5.8	0.6	7.8	6.6
1025	3.5	2.3	4.9	4.1	1.8	5.8	4.9	1.3	6.7	5.7	0.7	8.0	6.7
1050	3.0	2.5	5.1	4.3	2.0	6.1	5.1	1.4	7.1	6.0	0.9	8.4	7.0
1065	2.5	2.6	5.3	4.4	2.1	6.3	5.3	1.5	7.3	6.2	1.0	8.6	7.2
1100	1.5	2.9	5.6	4.7	2.3	6.8	4.7	1.8	7.9	6.6	-	-	-
1120	1.0	3.1	5.8	4.9	2.5	7.0	5.9	1.9	8.3	6.9	-	-	-

- NOTES: 1. Blower performance includes a gas-fired heat exchanger, fixed outdoor air, two-inch T/A filters and a dry evaporator coil.
 2. Refer to the additional Static Resistances table.
 ESP = External Static Pressure available for the supply and return air duct system. All internal unit resistances have been deducted from the total static pressure of the blower.
 * Do NOT close the pulley below 1 turn open.
 ** Factory setting.

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TABLE 34: DJ ELECTRICAL DATA WITHOUT POWERED CONVENIENCE OUTLET

MODEL TONNAGE	VOLTAGE	COMPRESSORS		OD FAN MOTORS FLA EACH	ID BLOWER MOTOR FLA	CONV OUTLET AMPS	HEATER OPTION				MIN. CIRCUIT AMPACITY (AMPS)	MAX. FUSE/ BRKR ¹ SIZE (AMPS)
		RLA EACH	LRA EACH				MODEL	KW	STAGES	AMPS		
15	208	21.8	184	2.1	15.4	0.0	None	0.0	-	-	72.9	90
							E18	13.5	1	37.5	72.9	90
							E36	27.0	2	75.1	112.9	125
							E54	40.8	2	112.6	160.1	175
							E72	54.1	2	150.1	189.4	200
	230	21.8	184	2.1	15.4	0.0	None	0.0	-	-	71.9	90
							E18	18.0	1	43.3	72.1	90
							E36	36.0	2	86.6	126.3	150
							E54	54.0	2	129.9	147.9	175
							E72	72.0	2	173.2	191.2	225
	460	11.0	90	1.1	7.2	0.0	None	0.0	-	-	36.4	45
							E18	18.0	1	21.7	36.4	45
							E36	36.0	2	43.3	63.1	70
							E54	54.0	2	65.0	74.0	90
							E72	72.0	2	86.6	95.6	110
	575	9.6	73	0.9	5.9	0.0	None	0.0	-	-	31.1	40
							E18	18.0	1	17.3	31.1	40
							E36	36.0	2	34.6	50.7	60
							E54	54.0	2	52.0	59.3	70
							E72	72.0	2	69.3	76.7	90
17 1/2	208	25.6	190	2.1	20.0	0.0	None	0.0	-	-	86.0	110
							E18	13.5	1	37.5	86.0	110
							E36	27.0	2	75.1	118.7	125
							E54	40.6	2	112.6	165.9	175
							E72	54.1	2	150.1	175.2	200
	230	25.6	190	2.1	20.0	0.0	None	0.0	-	-	86.0	110
							E18	18.0	1	43.3	86.0	110
							E36	36.0	2	86.6	133.3	150
							E54	54.0	2	129.9	154.9	175
							E72	72.0	2	173.2	198.2	225
	460	12.8	95	1.1	10.0	0.0	None	0.0	-	-	43.2	50
							E18	18.0	1	21.7	43.2	50
							E36	36.0	2	43.3	66.6	70
							E54	54.0	2	65.0	77.5	90
							E72	72.0	2	86.6	99.1	110
	575	10.3	75	0.9	8.2	0.0	None	0.0	-	-	35.0	45
							E18	18.0	1	17.3	35.0	45
							E36	36.0	2	34.6	53.6	60
							E54	54.0	2	52.0	62.2	70
							E72	72.0	2	69.3	79.5	90

NOTE 1: HACR Type per NEC.

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Refrigerant Circuit and Refrigerant Safety Components shall include:

- A. Independent fixed-orifice or thermally operated expansion devices.
- B. Solid core filter drier/strainer to eliminate any moisture or foreign matter.
- C. Accessible service gage connections on both suction and discharge lines to charge, evacuate, and measure refrigerant pressure during any necessary servicing or troubleshooting, without losing charge.
- D. The unit shall have two independent refrigerant circuits, equally split in 50% capacity increments.

Unit Controls:

- A. Unit shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-volt transformer side.
- B. Unit shall incorporate a lockout circuit which provides reset capability at the space thermostat or base unit should any of the following standard safety devices trip and shut off compressor:
- C. Loss-of-charge/Low-pressure switch. (1) High-pressure switch. (2) Freeze-protection thermostat, evaporator coil. If any of the above safety devices trip, an LED (light-emitting diode) indicator shall flash a diagnostic code that indicates which safety switch has tripped.
- D. Unit shall incorporate "AUTO RESET" compressor over temperature, over current protection.
- E. Unit shall operate with conventional thermostat designs and have a low voltage terminal strip for easy hook-up.
- F. Unit control board shall have on-board diagnostics and fault code display.
- G. Standard controls shall include anti-short cycle and low voltage protection, and permit cooling operation down to 0 °F.
- H. Control board shall monitor each refrigerant safety switch independently.
- I. Control board shall retain last 5 fault codes in non-volatile memory, which will not be lost in the event of a power loss.

GAS HEATING SECTION (IF EQUIPPED)

Heat exchanger and exhaust system shall be constructed of aluminized steel and shall be designed with induced draft combustion with post purge logic, energy saving direct spark ignition, and redundant main gas valve. The heat exchanger shall be of the tubular type, constructed of T1-40 aluminized steel for corrosion resistance and allowing minimum mixed air entering temperature of 40 °F. Burners shall be of the in-shot type, constructed of aluminum-coated steel. All gas piping shall enter the unit cabinet at a single location, through either the side or bottom, without any field modifications. An

integrated control board shall provide timed control of evaporator fan functioning and burner ignition. Heating section shall be provided with the following minimum protection:

- A. Primary and auxiliary high-temperature limit switches.
- B. Induced draft pressure sensor.
- C. Flame roll out switch (manual reset).
- D. Flame proving controls. Unit shall have two independent stages of capacity (60% 1st stage, 100% 2nd stage).

ELECTRIC HEATING SECTION (If Required)

An electric heating section, with nickel chromium elements, shall be provided in a range of 9 thru 54 KW, offering two states of capacity all sizes. The heating section shall have a primary limit control(s) (automatic reset) to prevent the heating element system from operating at an excessive temperature. The Heating Section assembly shall slide out of the unit for easy maintenance and service. Units with Electric Heating Sections shall be wired for a single point power supply with branch circuit fusing (where required).

UNIT OPERATING CHARACTERISTICS

Unit shall be capable of starting and running at 125 °F outdoor temperature, exceeding maximum load criteria of ARI Standard 210/240. The compressor, with standard controls, shall be capable of operation down to 0 °F outdoor temperature. Unit shall be provided with fan time delay to prevent cold air delivery before heat exchanger warms up. (Gas heat only)

ELECTRICAL REQUIREMENTS - All unit power wiring shall enter unit cabinet at a single factory provided location and be capable of side or bottom entry to minimize roof penetrations and avoid unit field modifications. Separate side and bottom openings shall be provided for the control wiring.

STANDARD LIMITED WARRANTIES - Compressor - 5 Years, Heat Exchanger - 10 Years, Elect. Heat Elem. - 5 Years, Parts - 1 Year

FACTORY INSTALLED OPTIONAL OUTDOOR AIR (Shall be made available by either/or):

1. **ELECTRONIC ENTHALPY AUTOMATIC ECONOMIZER** - Outdoor and return air dampers that are interlocked and positioned by a fully-modulating, spring-return damper actuator. The maximum leakage rate for the outdoor air intake dampers shall not exceed 2% when dampers are fully closed and operating against a pressure differential of 0.5 IWG. A unit-mounted potentiometer shall be provided to adjust the outdoor and return air damper assembly to take in outdoor air to meet the minimum ventilation requirement of the conditioned space during normal operation. During economizer operation, a mixed-air temperature control shall modulate the outdoor and return air damper assembly to prevent the supply air temperature from dropping below 55 °F. Changeover from compressor to economizer operation

shall be provided by an integral electronic enthalpy control that feeds input into the basic module. The outdoor intake opening shall be covered with a rain hood that matches the exterior of the unit. Water eliminator/filters shall be provided. Simultaneous economizer/compressor operation is also possible. Dampers shall fully close on power loss. Available with barometric relief or power exhaust.

2. **MOTORIZED OUTDOOR AIR DAMPERS** – Outdoor and return air dampers that are interlocked and positioned by a 2-position, spring-return damper actuator. The maximum leakage rate for the outdoor air intake dampers shall not exceed 2% when dampers are fully closed and operating against a pressure differential of 0.5 IWG. A unit-mounted potentiometer shall be provided to adjust the outdoor and return air damper assembly to take in the design CFM of outdoor air to meet the ventilation requirements of the conditioned space during normal operation. Whenever the indoor fan motor is energized, the dampers open up to one of two pre-selected positions – regardless of the outdoor air enthalpy. Dampers return to the fully closed position when the indoor fan motor is de-energized. Dampers shall fully close on power loss.

ADDITIONAL FACTORY INSTALLED OPTIONS

- **ALTERNATE INDOOR BLOWER MOTOR** – For applications with high restrictions, units are available with optional indoor blower motors that provide higher static output and/or higher airflow.
- **CONVENIENCE OUTLET** – Unit can be provided with an optional 120VAC GFCI outlet with cover on the corner of the unit housing the compressors.
- **DIRTY FILTER SWITCH** – This kit includes a differential pressure switch that energizes the fault light on the unit thermostat, indicating that there is an abnormally high-pressure drop across the filters.
- **BREAKER** – An HACR breaker can be factory installed on the gas heat unit.
- **DISCONNECT SWITCH** – A disconnect can be factory installed on a cooling only unit.
- **STAINLESS STEEL HEAT EXCHANGER** – For applications in a corrosive environment, this option provides a full stainless steel heat exchanger assembly.
- **SMOKE DETECTOR** – A smoke detector can be factory mounted and wired in the supply and/or return air compartments.
- **OTHER PRE-ENGINEERED ACCESSORIES AVAILABLE**
 - **ROOF CURB** – 14" and 8" high, full perimeter knockdown curb, with hinged design for quick assembly.
 - **BAROMETRIC RELIEF DAMPER** – (Unit mounted – Downflow, Duct Mounted – Sideflow) – Contains a rain hood, air inlet screen, exhaust damper and mounting hardware. Used to relieve internal air pressure through the unit during economizer operation.
 - **PROPANE CONVERSION KIT** – Contains new orifices and gas valve springs to convert from natural to L.P. gas.
 - **DIRTY FILTER SWITCH –60 °F GAS HEAT KIT** – Provides an electric heat kit for the gas compartment for use in extreme low ambient conditions.
 - **ECONOMIZER** (Downflow and Sideflow)
 - **POWER EXHAUST** – (Unit mount – Downflow, Duct mount – Sideflow)

TABLE 34: DJ ELECTRICAL DATA WITHOUT POWERED CONVENIENCE OUTLET (CONTINUED)

MODEL TONNAGE	VOLTAGE	COMPRESSORS		OD FAN MOTORS FLA EACH	ID BLOWER MOTOR FLA	CONV OUTLET AMPS	HEATER OPTION				MIN. CIRCUIT CAPACITY (AMPS)	MAX. FUSE/ BRKR ¹ SIZE (AMPS)
		RLA EACH	LRA EACH				MODEL	KW	STAGES	AMPS		
20	208	33.6	225	3.7	20.0	0.0	None	0.0	-	-	110.4	125
							E18	13.5	1	37.5	110.4	125
							E36	27.0	2	75.1	118.7	125
							E54	40.6	2	112.6	165.9	175
							E72	54.1	2	150.1	175.2	200
	230	33.6	225	3.7	20.0	0.0	None	0.0	-	-	110.4	125
							E18	18.0	1	43.3	110.4	125
							E36	36.0	2	86.6	133.3	150
							E54	54.0	2	129.9	154.9	175
							E72	72.0	2	173.2	198.2	225
	460	17.3	114	1.9	10.0	0.0	None	0.0	-	-	56.5	70
							E18	18.0	1	21.7	56.5	70
							E36	36.0	2	43.3	66.6	70
							E54	54.0	2	65.0	77.5	90
							E72	72.0	2	86.6	99.1	110
	575	13.5	80	1.5	8.2	0.0	None	0.0	-	-	44.8	50
							E18	18.0	1	17.3	44.6	50
							E36	36.0	2	34.6	53.6	60
							E54	54.0	2	52.0	62.2	70
							E72	72.0	2	69.3	79.5	90
25	208	47.1	245	3.7	38.6	0.0	None	0.0	-	-	159.4	200
							E18	13.5	1	37.5	159.4	200
							E36	27.0	2	75.1	159.4	200
							E54	40.6	2	112.6	189.1	200
							E72	54.1	2	150.1	198.4	225
	230	47.1	245	3.7	38.6	0.0	None	0.0	-	-	159.4	200
							E18	18.0	1	43.3	159.4	200
							E36	36.0	2	86.6	159.4	200
							E54	54.0	2	129.9	178.2	200
							E72	72.0	2	173.2	221.5	250
	480	19.6	125	1.9	19.3	0.0	None	0.0	-	-	71.0	90
							E18	18.0	1	21.7	71.0	90
							E36	36.0	2	43.3	78.3	90
							E54	54.0	2	65.0	89.1	100
							E72	72.0	2	86.6	110.7	125
	575	15.8	100	1.5	15.4	0.0	None	0.0	-	-	57.0	70
							E18	18.0	1	17.3	57.0	70
							E36	36.0	2	34.6	62.6	70
							E54	54.0	2	52.0	71.2	80
							E72	72.0	2	69.3	88.5	100

NOTE 1: HACR Type per NEC.

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TABLE 36: DJ VOLTAGE LIMITATIONS¹

VOLTAGE LIMITATIONS			
VOLTAGE LIMITATIONS	POWER SUPPLY	VOLTAGE	
		MIN.	MAX.
	208/230-3-60	187	253
	460-3-60	414	506
	575-3-60	518	630

1. Utilization Range "A" in accordance with ARI Standard 110.

TABLE 37: PHYSICAL DATA

MODELS				DJ 180	DJ 210	DJ 240	DJ 300
EVAPORATOR BLOWER	CENTRIFUGAL BLOWER (Dia.x Wd.)			15x15	18x15	18x15	18x15
	FAN MOTOR HP			5.0	7.5	7.5	15
EVAPORATOR COIL	ROWS DEEP			4			
	FINS PER INCH			13.5			
	FACE AREA (Sq. Ft.)			25			
CONDENSER FAN (Four Per Unit)	PROPELLER DIA. (In.) (Each)			24	24	30	30
	FAN MOTOR HP (Each)			1/3	1/3	3/4	3/4
	NOM. CFM TOTAL (Each)			4,000	4,000	5,000	5,000
CONDENSER COIL	ROWS DEEP			1	2		
	FINS PER INCH			20	20		
	FACE AREA (Sq. Ft.)			63.8	63.8		
COMPRESSOR (Qty. Per Unit)	SCROLL			2			
FILTERS	QUANTITY PER UNIT (12" X 24" X 2")			12			
	TOTAL FACE AREA (Sq. Ft.)			24			
CHARGE	REFRIGANT 22 (Lb./Oz.)	SYSTEM No.1		24/0	24/0	23/8	23/8
		SYSTEM No.2		24/0	24/0	23/8	23/8
OPERATING WEIGHTS (LBS.)	BASIC UNIT	COOLING ONLY		2140	2540	2560	2660
		GAS / ELECTRIC	N24	2340	2740	2760	2860
			N32	2380	2780	2800	2900
	OPTIONS	ECONOMIZER		160			
		ECONOMIZER WITH POWER EXHAUST		245			
		MOTORIZED DAMPER		150			
		ELECTRIC HEATER	18 KW	25			
			36 KW	30			
			54 KW	35			
			72 KW	40			
	ACCESSORIES	ROOF CURB		185			
		BAROMETRIC DAMPER		45			
		ECONOMIZER / MOTORIZED DAMPER RAIN HOOD		55			
		ECONOMIZER / POWER EXHAUST RAIN HOOD		90			
		WOOD SKID		220			

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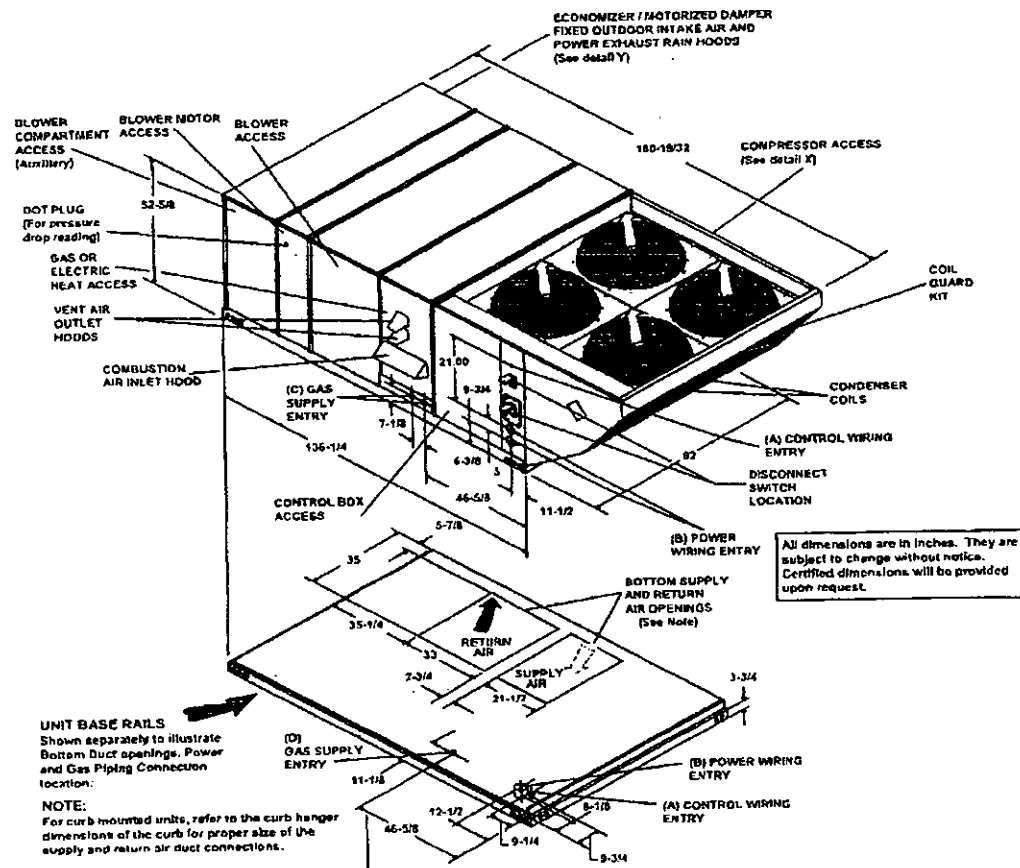


FIGURE 3: UNIT DIMENSIONS DJ180, 210, 240 & 300 (FRONT VIEW)

TABLE 39: MINIMUM CLEARANCES

LOCATION	CLEARANCE
Front	36"
Back	24" (Less Economizer) 49" (With Economizer)
Left Side (Filter Access)	24" (Less Economizer) 36" (With Economizer)
Right Side (Cond. Coil)	36"
Below Unit ¹	0"
Above Unit ²	72" With 36" Maximum Horizontal Overhang (For Condenser Air Discharge)

- Units may be installed on combustible floors made from wood or class A, B, or C roof covering material.
- Units must be installed outdoors. Overhanging structures or shrubs should not obstruct condenser air discharge outlet.

NOTE: A 1" clearance must be provided between any combustible material and the supply air ductwork for a distance of 3 feet from the unit.

NOTE: The products of combustion must not be allowed to accumulate within a confined space and recirculate.

TABLE 40: UTILITIES ENTRY

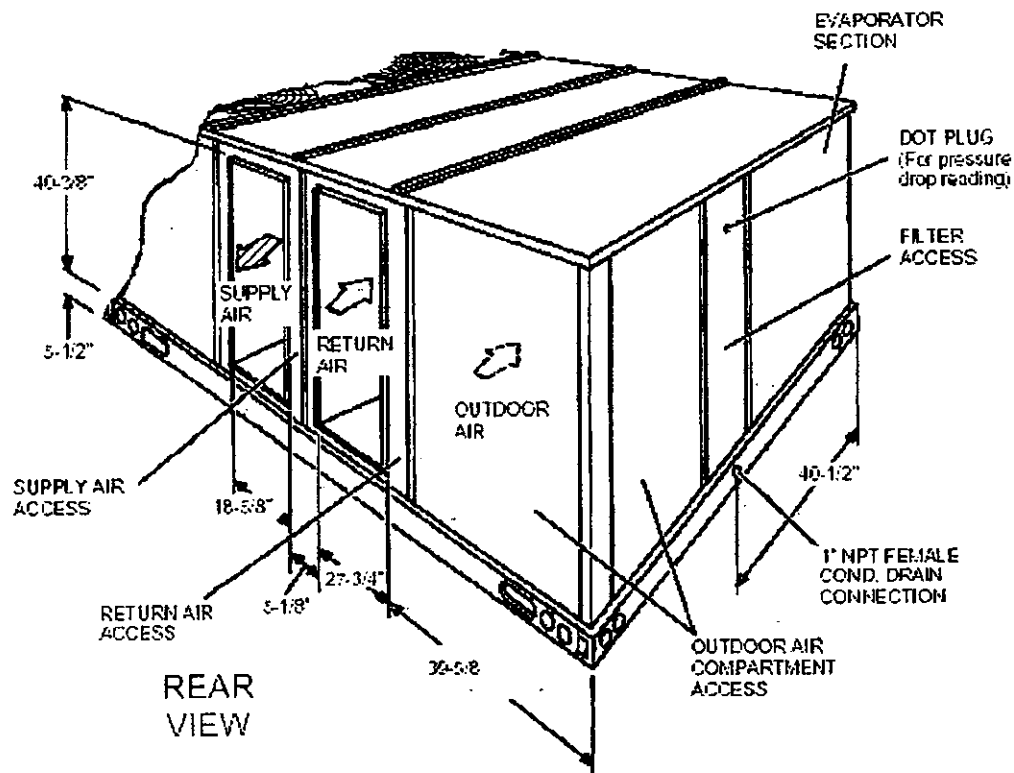
HOLE	OPENING SIZE (DIA.)	USED FOR	
A	1-1/8" KO	Control Wiring	Front
	3/4" NPS (Fem.)		Bottom
B	3-5/8" KO	Power Wiring	Front
	3" NPS (Fem.)		Bottom
C	2-3/8" KO	Gas Piping (Front) ¹	
D	1-11/16" Hole	Gas Piping (Bottom) ^{1,2}	

- One-inch Gas Piping MPT Required.
- Opening in the bottom to the unit can be located by the side in the insulation.

NOTE: Locate unit so that the vent air outlet hood is at least:

- Three (3) feet above any force air inlet located within 10 horizontal feet (excluding those integral to the unit).
- Four (4) feet below, 4 horizontal feet from, or 1 foot above any door or gravity air inlet into the building.
- Four (4) feet from electric and gas meters, regulators and relief equipment.

NOTE: All entry holes should be field sealed to prevent rain water entry into building.

**FIGURE 4: UNIT DIMENSIONS (REAR VIEW)**

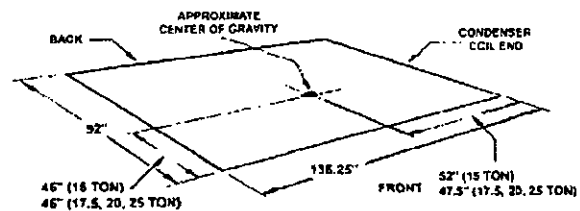
NOTE: Units are shipped with the bottom duct openings covered. An accessory flange kit is available for connecting side ducts.

For *bottom* duct applications:

1. Remove the side panels from the supply and return air compartments to gain access to the bottom supply and return air duct covers.
2. Remove and discard the bottom duct covers. Duct openings are closed with sheet metal covers except when the unit includes a power exhaust option. The covering consists of a heavy black paper composition.
3. Replace the side supply and return air compartment panels.

For *side* duct application:

1. Replace the side panels on the supply and return air compartments with the accessory flange kit panels.
2. Connect ductwork to the duct flanges on the rear of the unit.

**FIGURE 5: UNIT CENTER OF GRAVITY**

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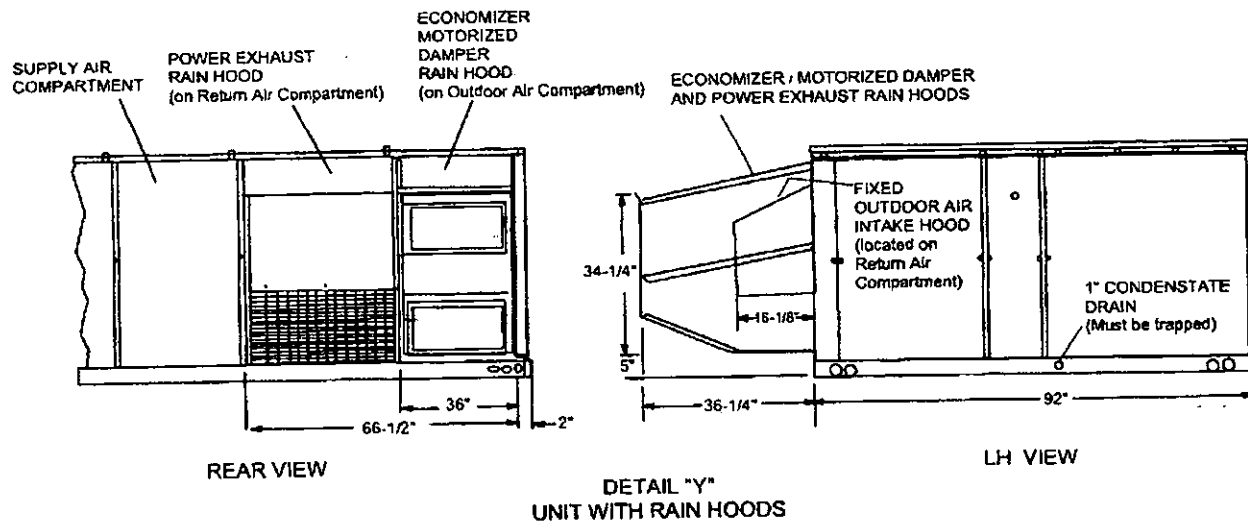


FIGURE 6: UNIT DIMENSIONS DJ180, 210, 240 & 300 (RAINHOOD)

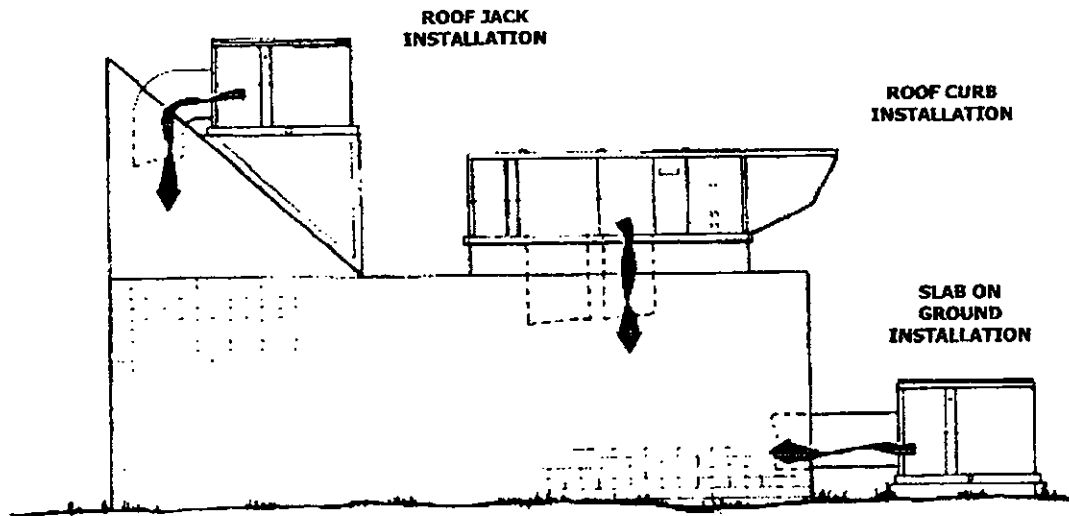


FIGURE 7: TYPICAL UNIT APPLICATIONS

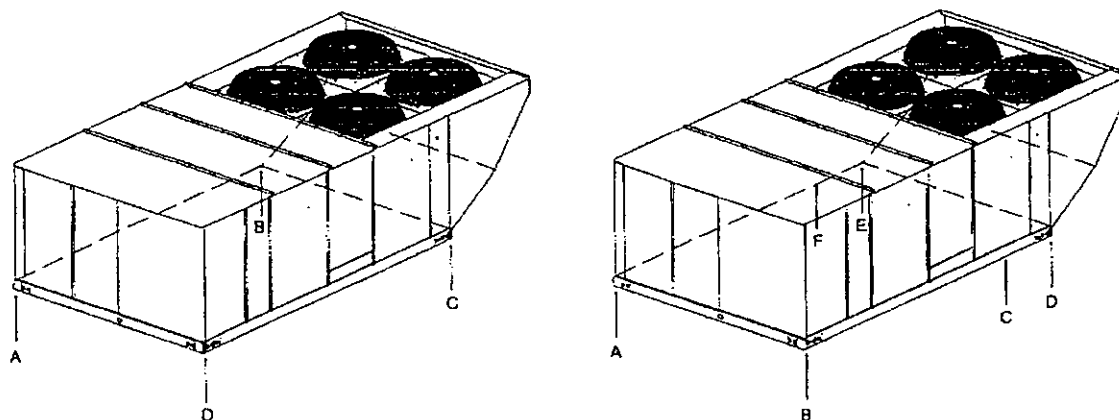


FIGURE 8: FOUR AND SIX POINT LOADS

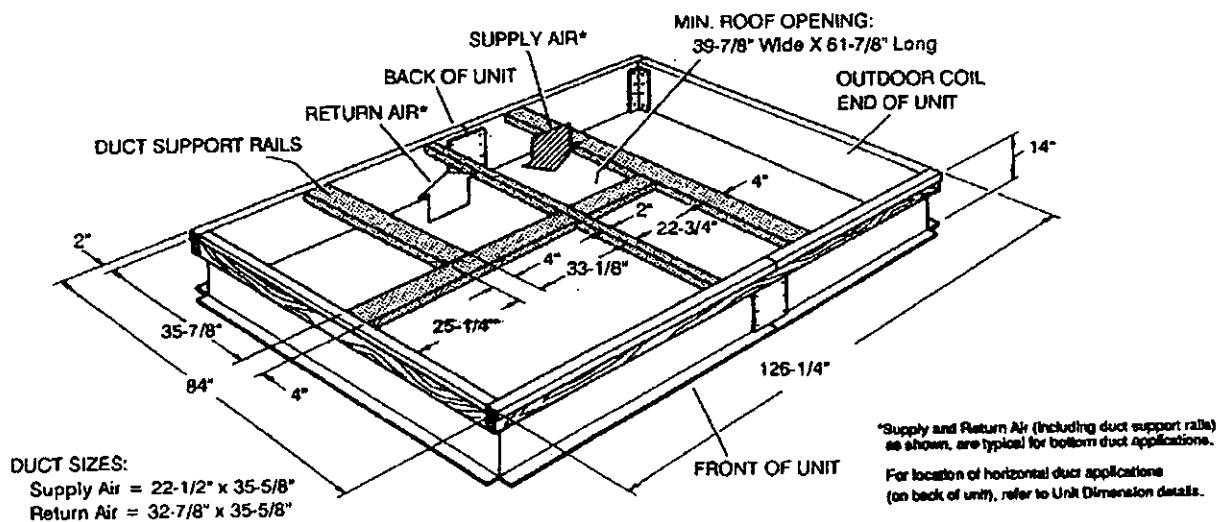
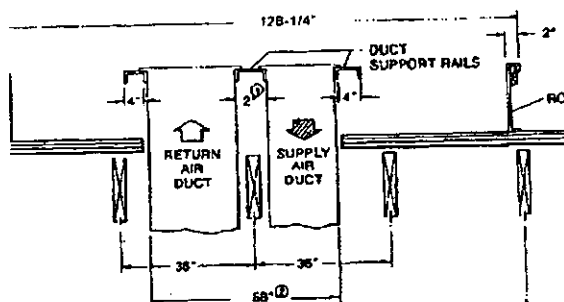
TABLE 41: FOUR AND SIX POINT LOADS

Unit Size	Total Shipping Weight	4 Point Loads (lbs)			
		A	B	C	D
180 Gas	2540	474	768	802	495
210 Gas	2928	510	964	954	510
240 Gas	2960	516	964	964	516
300 Gas	3046	531	992	992	531
180 Elec	2340	437	768	739	456
210 Elec	2728	476	888	888	476
240 Elec	2760	481	899	899	481
300 Elec	2846	496	927	927	496

Unit Size	Total Shipping Weight	6 Point Loads (lbs)					
		A	B	C	D	E	F
180 Gas	2540	316	330	433	535	512	414
210 Gas	2928	340	340	488	636	636	488
240 Gas	2960	344	344	493	643	643	493
300 Gas	3046	354	354	508	661	661	508
180 Elec	2340	291	304	398	493	472	382
210 Elec	2728	317	317	455	592	592	455
240 Elec	2760	321	321	460	599	599	460
300 Elec	2846	331	331	474	618	618	474

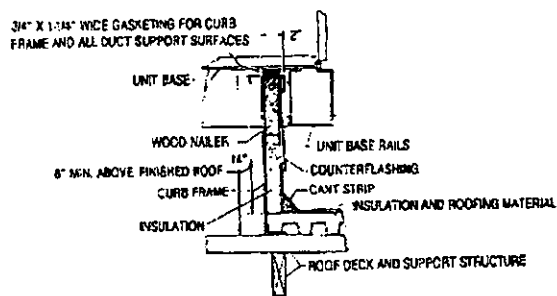
NOTE: These weights are with economizer, and high option heat (gas or electric)

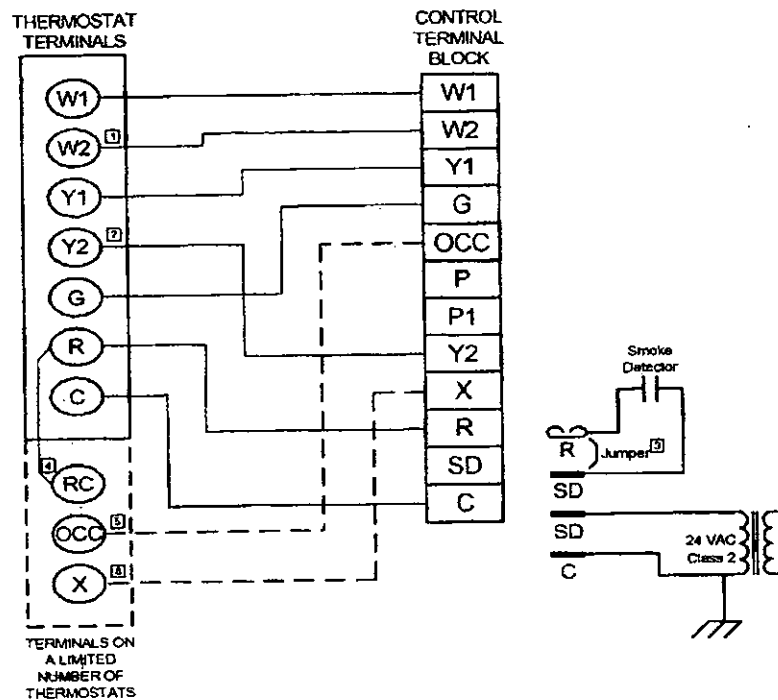
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**FIGURE 9: UNIT ROOF CURB DIMENSIONS****FIGURE 10: ROOF CURB DUCT OPENINGS DIMENSION**

1. The 2" space between the ducts allows for "jumping" an existing roof joist.
2. The 58-1/2" overall dimension of the ducts allows duct-work penetration between roof joists that are spaced on 72" centers.

NOTE: Ducts can be installed into the curb from the roof. All electrical and gas line connections can be made inside the curb.

**FIGURE 11: CUT AWAY OF ROOF CURB**



- ① Second stage heating not required on single stage heating units.
- ② Second stage cooling not required on single stage cooling units.
- ③ Jumper is required if there is no Smoke Detector circuit.
- ④ Jumper is required for any combination of R, RC, or RH.
- ⑤ OCC is an output from the thermostat to indicate the Occupied condition.
- ⑥ X is an input to the thermostat to display Error Status conditions.

FIGURE 12:SIMPLICITY CONTROL WIRING DIAGRAM

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GUIDE SPECIFICATIONS

GENERAL

Units shall be manufactured by York International Unitary Products Group in an ISO 9001 certified facility.

York's Sunline Magnum™ units are convertible single package units. All models have dual independent refrigerant circuits for efficient part load operation and maximum comfort control. Although the units are primarily designed for curb mounting on a roof, they can also be slab-mounted at ground level or set on steel beams above a finished roof. Cooling only, cooling with gas heat and cooling with electric heat models are available with a wide variety of factory-mounted options and field-installed accessories to make them suitable for almost every application. All units are self-contained and assembled on full perimeter base rails with holes in the four corners for overhead rigging. Every unit is completely piped, wired, charged and tested at the factory to simplify the field installation and to provide years of dependable operation. All models (including those with an economizer) are suitable for either bottom or horizontal duct connections. Models with power exhaust are suitable for bottom duct connections only. For bottom duct, remove the sheet metal panels from the supply and return air openings through the base of the unit. For horizontal duct, replace the supply and return air panels on the rear of the unit with a side duct flange accessory. All supply air blowers are equipped with a belt drive that can be adjusted to meet the exact requirements of the job.

Each unit shall have 4 condenser fan motors. A high speed drive accessory is available for applications with a higher CFM and/or static pressure requirement. All compressors include crankcase heat and internal pressure relief. Every refrigerant circuit includes an expansion valve, a liquid line filter-drier, a discharge line high pressure switch and a suction line with a freeze stat and low pressure/loss of charge switch. The unit control circuit includes a 75 VA transformer, a 24-volt circuit breaker and a relay board with two compressor lockout circuits, a terminal strip for thermostat wiring, plus an additional set of pin connectors to simplify the interface of additional field controls. All units have long lasting powder paint cabinets with 750 hour salt spray test approval under ASTM-B117 procedures. All 208/230 and 460-volt models are ETL approved. All 208/230 and 575-volt models are CGA approved. All models include a 1-year limited warranty on the complete unit. Compressors and electric heater elements carry an additional 4-year warranty. Aluminumized steel tubular heat exchangers carry an additional 9-year warranty.

DESCRIPTION

Units shall be factory-assembled, single packaged, DJ***N Electric Cooling/Gas Heat, DJ***C/E Electric Cooling/Optional Electric Heat, designed for outdoor mounted installation. The 15, 17.5, and 20 ton units shall have minimum EER ratings of 11.1. The 25 ton unit shall have a minimum EER rating of 10.5.

They shall have built-in field convertible duct connections for down discharge supply/return or horizontal discharge supply/return, and be available with factory installed options or field installed accessories. The units shall be factory wired, piped, charged with R-22 refrigerant and factory tested prior to shipment. All unit wiring shall be both numbered and color coded. All units shall be manufactured in a facility certified to ISO 9001 standards and the cooling performance shall be rated in accordance with DOE and ARI test procedures. Units shall be ETL & CGA listed; classified to ANSI Z21.47 standards; UL 1995/CAN/CSA No. 236-M90 conditions.

UNIT CABINET

Unit cabinet shall be constructed of G90 galvanized steel, with exterior surfaces coated with a non-chalking, powdered paint finish, certified at 750 hours salt spray test per ASTM-B117 standards. Indoor blower section shall be insulated with a minimum 1/2" thick insulation, coated on the airside. Aluminum foil faced insulation shall be used in the furnace compartment and be fastened with ridged fasteners to prevent insulation from entering the air stream. Cabinet panels shall be "large" size, easily removable for servicing and maintenance. Full perimeter base rails shall be provided to assure reliable transit of equipment, overhead rigging and proper sealing on roof curb applications. Disposable 2" filters shall be furnished and be accessible through a removable access door, sealed airtight. Units filter track shall be designed to accommodate either 1" or 2" filters. Fan performance measuring ports shall be provided on the outside of the cabinet to allow accurate air measurements of evaporator fan performance without removing panels or creating air by-pass of the coils. Condensate pan shall be internally sloped and conform to ASHRAE 62-89 self-draining standards. Condensate connection shall be a minimum of 1" I.D. female and be a ridged mount connection. Unit shall incorporate a fixed outdoor air damper with an outdoor air intake opening covered with a bird screen and a rain hood painted to match the exterior of the unit.

INDOOR (EVAPORATOR) FAN ASSEMBLY

Fan shall be a belt drive assembly and include an adjustable-pitch motor pulley. Job site selected (B.H.P.) brake horsepower shall not exceed the motors nameplate horsepower rating, plus the service factor. Units shall be designed not to operate above service factor. Fan wheel shall be double-inlet type with forward-curved blades, dynamically balanced to operate smoothly throughout the entire range of operation. Airflow design shall be constant air volume. Bearings shall be sealed and permanently lubricated for longer life and no maintenance.

OUTDOOR (CONDENSER) FAN ASSEMBLY

The outdoor fans shall be of the direct-driven propeller type, discharge air vertically, have aluminum blades riveted to corrosion resistant steel spider brackets and shall be dynamically balanced for smooth operation. The 4 outdoor fan motors shall be totally enclosed with permanently lubricated

bearings, internally protected against overload conditions and staged independently.

REFRIGERANT COMPONENTS

Compressors:

- a. Shall be Scroll compressors internally protected with internal high-pressure relief and over temperature protection.
- b. Shall have internal spring isolation and sound muffling to minimize vibration and noise, and be externally isolated on a dedicated, independent mounting.

Coils:

- a. Evaporator and condenser coils shall have aluminum plate fins mechanically bonded to seamless internally enhanced copper tubes with all joints brazed. Special Phenolic coating shall be available as a factory option.
- b. Evaporator and Condenser coils shall be of the direct expansion, draw-thru, design.

Refrigerant Circuit and Refrigerant Safety Components shall include:

- a. Balance-port thermostatic expansion valve with independent circuit feed system.
- b. Filter drier/strainer to eliminate any moisture or foreign matter.
- c. Accessible service gage connections on both suction and discharge lines to charge, evacuate, and measure refrigerant pressure during any necessary servicing or troubleshooting, without losing charge.
- d. The refrigeration system shall provide at least 15° F of sub-cooling at design conditions.
- e. All models shall have two independent circuits.

UNIT CONTROLS

- a. Unit shall be complete with self-contained low-voltage control circuit protected by a resettable circuit breaker on the 24-volt transformer side.
- b. Unit shall incorporate a lockout circuit which provides reset capability at the space thermostat or base unit, should any of the following standard safety devices trip and shut off compressor.
 1. High-pressure switch.
 2. Freeze-protection thermostat, evaporator coil. If any of the above safety devices trip, a LED (light-emitting diode) indicator shall flash a diagnostic code that indicates which safety switch has tripped.
- c. Loss-of-charge/Low-pressure switch.

- d. Unit shall incorporate "AUTO RESET" compressor over temperature, over current protection.
- e. Unit shall operate with conventional thermostat designs and have a low voltage terminal strip for easy hook-up.
- f. Unit control board shall have on-board diagnostics and fault code display.
- g. Standard controls shall include anti-short cycle and low voltage protection, and permit cooling operation down to 0 °F.
- h. Control board shall monitor each refrigerant safety switch independently.
- i. Control board shall retain last 5 fault codes in non volatile memory, which will not be lost in the event of a power loss.

GAS HEATING SECTION (DJ***N MODELS)

Shall be designed with induced draft combustion with post purge logic and energy saving direct spark ignition, redundant main gas valve. Ventor wheel shall be constructed of stainless steel for corrosion resistance. The heat exchanger shall be of the tubular type, constructed of T1-40 aluminized steel for corrosion resistance and allowing minimum mixed air entering temperature of 25° F. Burners shall be of the in-shot type, constructed of aluminum coated steel and contain air mixture adjustments. All gas piping shall enter the unit cabinet at a single location through either the side or curb, without any field modifications. An integrated control board shall provide timed control of evaporator fan functioning and burner ignition. Heating section shall be provided with the following minimum protection:

- a. Primary and auxiliary high-temperature limit switches.
- b. Induced draft motor speed sensor.
- c. Flame roll out switch (automatic reset).
- d. Flame proving controls. Unit shall have two independent stages of capacity.

ELECTRIC HEATING (DJ***C/E MODELS)

Nickel chromium electric heating elements shall be provided as required by the application with 1 or 2 stage control, as required, from 13.5 KW to 72 KW capacities. The heating section shall have a primary limit control(s) and automatic reset to prevent the heating element system from operating at an excessive temperature. Units with Electric Heating shall be wired for a single point power supply with branch circuit fusing (where required).

036-21410-002-A-0103

UNIT OPERATING CHARACTERISTICS

Unit shall be capable of starting and running at 125° F outdoor temperature, exceeding maximum load criteria of ARI Standard 210/240. The compressor, with standard controls, shall be capable of operation down to 25° F outdoor temperature. Accessory low ambient kit shall be available for operation to 0° F. Unit shall be provided with fan time delay to prevent cold air delivery before heat exchanger warms up (Gas heat only).

ELECTRICAL REQUIREMENTS

All unit power wiring shall enter unit cabinet at a single factory provided location and be capable of side or bottom entry, to minimize roof penetrations and avoid unit field modifications. Separate side and bottom openings shall be provided for the control wiring.

STANDARD LIMITED WARRANTIES

- Compressor 5 Years
- Heat Exchanger 10 Years
- Electric Heat Element 5 Years
- Other Parts 1 Year

OPTIONAL OUTDOOR AIR (Shall be made available by either/or):

- **ELECTRONIC ENTHALPY AUTOMATIC ECONOMIZER** - Outdoor and return air dampers that are interlocked and positioned by a fully-modulating, spring-return damper actuator. The maximum leakage rate for the outdoor air intake dampers shall not exceed 2% when dampers are fully closed and operating against a pressure differential of 0.5 IWG. A unit-mounted potentiometer shall be provided to adjust the outdoor and return air damper assembly to take in CFM of outdoor air to meet the minimum ventilation requirement of the conditioned space during normal operation. During economizer operation, a mixed-air temperature control shall modulate the outdoor and return air damper assembly to prevent the supply air temperature from dropping below 55°F. Changeover from compressor to economizer operation shall be provided by an integral electronic enthalpy control that feeds input into the basic module. The outdoor intake opening shall be covered with a rain hood that matches the exterior of the unit. Water eliminator/filters shall be provided. Simultaneous economizer/compressor operation is also possible. Dampers shall fully close on power loss.
- **MOTORIZED OUTDOOR AIR DAMPERS** - Outdoor and return air dampers that are interlocked and positioned by a 2-position, spring-return damper actuator. The maximum leakage rate for the outdoor air intake dampers shall not exceed 2% when dampers are fully closed and operating against a pressure differential of 0.5 IWG. A unit-mounted potentiometer shall be provided to adjust

the outdoor and return air damper assembly to take in the design CFM of outdoor air to meet the ventilation requirements of the conditioned space during normal operation. Whenever the indoor fan motor is energized, the dampers open up to one of two pre-selected positions - regardless of the outdoor air enthalpy. Dampers return to the fully closed position when the indoor fan motor is de-energized. Dampers shall fully close on power loss.

OTHER PRE-ENGINEERED ACCESSORIES AVAILABLE

- **ROOF CURB** - 14" high, full perimeter curb with wood nailer (shipped knocked-down).
- **100% BAROMETRIC RELIEF DAMPER** - Contains a rain hood, air inlet screen, exhaust damper and mounting hardware. Used to relieve internal air pressure through the unit.
- **PROPANE CONVERSION KIT** - Contains new orifices and gas valve parts to convert from natural to L.P. gas. One per unit required.
- **HIGH ALTITUDE - NATURAL GAS** - Contains orifices required for applications between 2000 and 6000 feet altitude.
- **HIGH ALTITUDE - PROPANE GAS** - Contains orifices required for applications between 2000 and 6000 feet altitude. Must be used with propane conversion kit.
- **BURGLAR BARS** - Designed to work with above roof curbs, depending on unit model. Fits duct openings of curb supply and return air openings.
- **SIDE DUCT FLANGE** - Supply and return air duct flanges for side duct applications. Do not use on units with power exhaust.
- **HIGH SPEED DRIVE** - Includes blower pulley and belt for higher CFM and/or static pressure requirements.
- **WOOD SKID** - Allows unit to be handled with 90" forks.
- **ECONOMIZER/MOTORIZED DAMPER RAIN HOOD (DJN/E/C300 only)** - Contains all hood panels and the hardware for assembling.
- **ANTI-RECYCLE TIMER** - Assures 5-minute off time between compressor cycles.
- **LOW AMBIENT KIT** - Provides unit cooling operation down to 0°F.
- **COIL GUARD KIT** - Guard for cooling coil.

OTHER FACTORY INSTALLED OPTIONS

- **POWER EXHAUST OPTION** - To work in conjunction with economizers.
- **STAINLESS STEEL HEAT EXCHANGER**

- **TECHNICOAT PHENOLIC COATED CONDENSER AND EVAPORATOR COIL**
- **ELECTRONIC SINGLE ENTHALPY ECONOMIZER**
- **DIRTY FILTER SWITCH**
- **PHASE MONITOR**
- **COIL GUARD**
- **POWERED GFI CONVENIENCE OUTLET**
- **NON-POWERED GFI CONVENIENCE OUTLET**
- **BAS CONTROLS (CPC, JOHNSON, HONEYWELL, NOVAR)**
- **BAS READY ECONOMIZER (BELIMO ACTUATOR WITHOUT A CONTROLLER)**
- **HINGED FILTER DOOR ACCESS AND TOOLLESS ACCESS PANELS**
- **HIGH SPEED DRIVE**
- **2" PLEATED FILTERS**
- **4" THROW AWAY FILTERS**
- **DISCONNECT SWITCH**
- **SUPPLY AIR SMOKE DETECTOR**
- **RETURN AIR SMOKE DETECTOR**

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**Unitary
Products
Group**

**5005
York
Drive**

**Norman
OK
73069**

ITEM 12

Smokers

One (1) each – Southern Pride XLR-1400-SLSE gas smoker with smoke extractor; 1400 lb. capacity; legs; 125,000 BTUH; natural gas; 120 Volt with the following accessories:

- Programmable roast and hold
- Pneumatic rotisserie advance foot switch
- Mirrored image – smoke box and electric on left side of unit
- Casters

One (1) each – Cookshack SM-250 electric smoker; 120/208V/1 Phase with stainless steel interior; programmable digital roast and hold; set of (5) each PV015 rib racks; casters

Mechanical Requirements:

Southern Pride:

¾" natural gas
125,000 BTUH
120V/1 Phase
15 Amps
NEMA # 5-15P

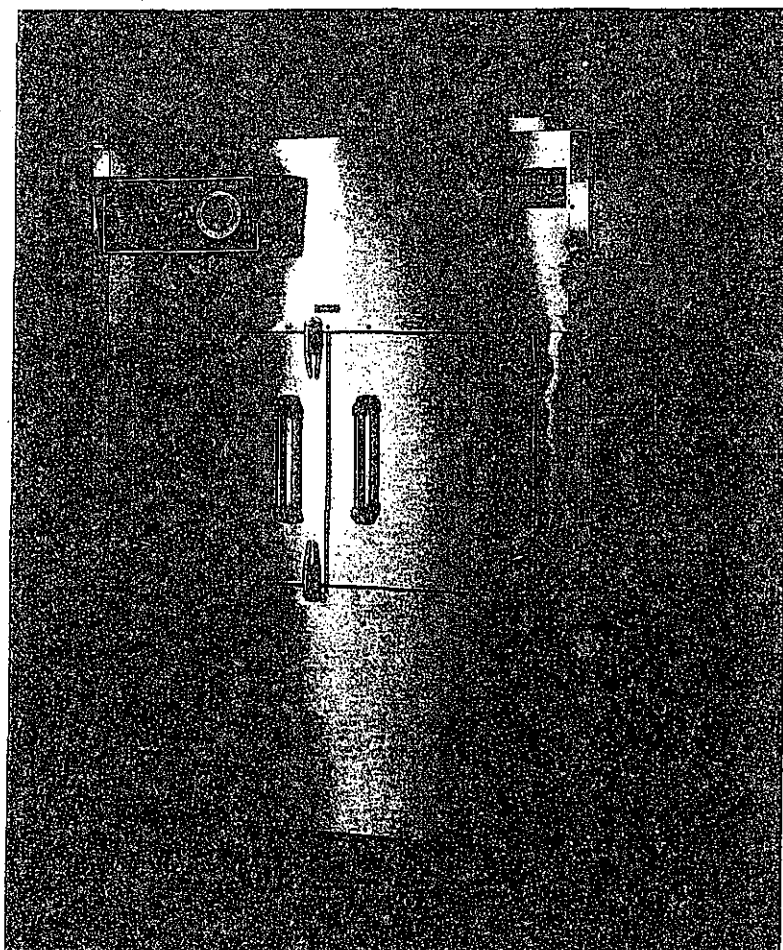
Cookshack:

120/208V/1 Phase
15 Amp
NEMA # L14-20P

Extra-Large Capacity Wood Burning Barbecue Pit for Restaurants, Hotels, Theme Parks and Catering Firms. Excellent choice for high volume installations requiring versatility and efficiency. Available with USDA Certification and mobile configuration.

12.1

- > ARL & NSF Approved
- > Superior Gear Driven Rotisserie System With Long Life External Bearings and Overload Protection
- > Self-Basting Rotisserie Feature Reduces Shrinkage and Retains Moisture
- > Patented Convection Air-Over Wood Burning Firebox
- > Automatic Heat/Smoke Extraction System
- > Gas Fired, Electronic Ignition
- > Patented Subthermic™ Flue
- > Genuine Barbecue/Meat Smoker
- > Large Double Doors With Automatic Door Closers
- > Thermostatically Controlled With High Limit Safety
- > Made In The U.S.A.
- > 1-Year Limited Warranty
- > U.S. Patent # 4,300,523



Cookin' Circles Around The Competition.

**Southern
PRIDE**
Wood Burning BBQ Pits & Smokers

XLR-1400-SLSE

12.1

Feature Overview

Genuine Barbecue: Authentic barbecue is the result of cooking meat with the smoke and heat of burning wood. The smoke penetrates the meat giving it a flavor that cannot be obtained in any other way. Southern Pride uses fireplace-size logs to obtain flavor, aroma, color and texture beyond comparison.

Fully Automatic: Southern Pride wood burning barbecue pits eliminate all the guesswork in barbecuing. There's no need for constant attention, no need to even turn the meat while it's cooking. Southern Pride is fully automatic.

Thermostatic Control: Precise thermostatic control maintains a constant pit temperature and provides for day-to-day product consistency. This eliminates the need for training skilled employees to barbecue, saving countless dollars in a restaurant's two most expensive factors: food cost and labor.

Convection Air: This unique convection system continually recirculates smoke and heat throughout the pit, insuring temperature uniformity. This feature reduces cooking time and shrinkage and allows cooking at a lower temperature.

Rotisserie: This Southern Pride feature provides self-basting of the product to enhance its flavor and texture. In conjunction with the convection system, the rotisserie eliminates your need to turn the product while it cooks. The food racks are specially designed for quick removal and easy cleaning.

Subthermic™ flue: Maximum smoke intensity is obtained with this unique, patented Southern Pride flue system. It increases smoke flavor of the meat, increased heat efficiency and drastically reduces wood usage. In conjunction with insulated walls and our patented air-over firebox, the Subthermic™ flue reduces wood usage to as little as two fireplace-size logs for an entire day's cooking.

Smoke Extractor: This convenient Southern Pride feature evacuates the smoke from the pit and allows loading or unloading of the product without excess heat and smoke emitting into the face of the operator. It is automatically activated when the doors are opened.

Downtime Eliminated: The unique wood burning feature of this equipment allows for the cooking process to continue in the remote possibility of power or component failure.

Cooking Capacities

Pork Butts	150 pieces	1050lbs. total
Pork Ribs	150 pieces	450 lbs. total
Beef Brisket	120 pieces	1220 lbs. total
Whole Chickens	180 pieces	540 lbs. total

Specifications

- **Electrical Requirements:** 120 volts AC, 60 hertz, 1 phase, 15 amp wiring required.
- **Ignition System:** 125,000 BTU, Electronic Pilot, Gas Burner (specify natural gas or LP gas.)
- **Construction:** Inner Liner • 12-gauge H.R. Steel, 100% Seam Welded. (12-gauge Stainless Steel seam welded interior liner available - Specify XLR-1400-SLSE-U) Exterior • 22-gauge Polished Stainless Steel.
- **Dimensions:** 69.75" W x 108.5" D x 91.5" H (81.5" H - w.o. Smoke Extractor) Shipping Weight • 3,000 lbs.
- **Food Racks:** Rotisserie with 6-five tiered (30) 12" x 42" nickel chrome plated food racks - 105 square feet of cooking surface.
- **Wood Burning Firebox:** Uses wood logs or charcoal. Capacity • 3-4 wood logs, 4" to 6" in diameter, 12" to 18" long. Use hickory, maple, oak, apple, cherry, mesquite, pecan, etc.
- **Temperature Range:** 100-325 degrees F.
- **Air Circulation:** Convection Fan
- **Venting:** Vent Hood - Model XLR-1400-SLSE must be provided with an exhaust ventilation system in accordance with the National Fire Protection Association standard for removal of smoke and grease laden vapors from commercial equipment, NFPA 96. Local Codes may supersede this recommendation. Check local building codes prior to installation.

-Or-

Direct Venting - Pit must be vented in accordance with the National Fire Protection Association (NFPA) standard for chimneys, fireplaces, and vents, NFPA 211, which requires connections of the oven to a chimney for a residential type or building heating appliances. Local codes may supersede this recommendation. Check local building codes prior to installation. Consult factory for additional recommendations.

Optional Features

- **Digital Cook & Hold Control:** Allows programming of cook time & temperature and hold temperature for complete cooking automation.
- **Mobile Configuration:** 16' trailer with dual axles and electric brakes, ground fault protection, wood storage box, dual L.P. tanks, and safety chains
- **Glass Doors and Interior Quartz Light Package**
- **Foot Switch Rotisserie Control**
- **Reverse Firebox:** Mirror image of standard unit

**Southern
PRIDE**

llh

NSF

SPECIFY
XLR-1400-SLSE-U
USDA

Cookin' Circles Around The Competition.

ITEM 42

Charbroiler

Two (2) each Baker's Pride XX-8 48" long natural gas radiant charbroilers with 6" legs. To include the following accessories:

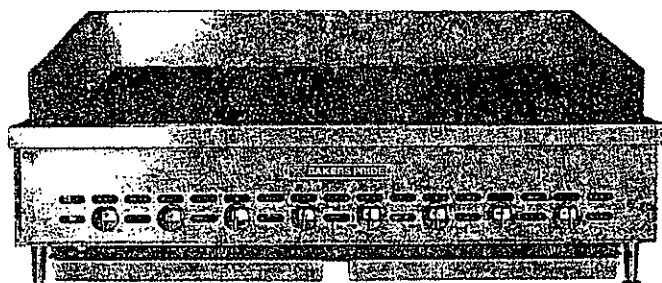
- Two (2) each - stainless steel splash guard
- Two (2) each - 48" stainless steel work deck
 - Two (2) each - 1/3 size pan cut-outs in work decks
- Two (2) sets - cast iron radiants in lieu of standard
- Two (2) sets - special meat grates in lieu of standard
- Two (2) each - Avtec $\frac{3}{4}$ " x 48" gas hose
- Two (2) each - tong holder cut into work deck

Mechanical Requirements:

(2) $\frac{3}{4}$ " natural gas - 144,000 BTU each



COUNTERTOP GAS RADIANT CHAR BROILER



Model XX-8

SPECIFICATIONS

Countertop gas radiant char broiler with exceptionally low profile design is only 13 1/4" (337mm) to broiling surface making the XX broiler ideal for use on refrigerated cabinets while a 24" deep broiling surface provides the largest broiling area and production capacity in its class.

Exterior is all stainless steel with unique air blanket for ventilation and cooler outer temperatures. Front grease trough, slide out stainless grease drawer and 4" (102mm) chrome plated adjustable legs are standard. Interior combustion chamber is fabricated of 11 gauge and 16 gauge HRS and hand welded to form a single unitized body.

The XX models feature 24" long, 18,000 BTU/HR, independently controlled, clog-proof, high efficiency burners located every 4 7/8" (124mm) for maximum heat and feature flame guards attached to the underside of each burner to protect grease from direct contact with flames.

14 Gauge, 300-series stainless steel radiant heat deflectors are placed directly above each burner for even heat transfer to the broiling surface, while cast iron radiants are optional.

Standard top grates are cast iron with channels to direct grease to front trough. Grates are 5 1/4" (133mm) wide by 24" (610mm) long with 3/4" (19mm) rib spacing, while several grate types are optional and may be mixed and matched.

Each grate may be manually adjusted in any of three separate tilting positions.

Job _____ Item # 42

GAS CHAR BROILERS

- ☐ Model XX-4
- ☐ Model XX-6
- ☒ Model XX-8
- ☐ Model XX-10

STANDARD FEATURES

- ☐ Cast iron top grates for broiling
- ☐ 18,000 BTU/HR per burner with individually operator controlled valves
- ☐ Up to 180,000 BTU/HR natural or propane gas
- ☐ All stainless exterior finish
- ☐ Heavy plate steel unitized construction
- ☐ Low profile, countertop design — only 13 1/4" to broiling/grilling surface
- ☐ Slide-out grease drawer and 4" legs
- ☐ Stainless steel radiant heat deflectors with flame guards
- ☐ 3/4" (19mm) NPT rear gas connection and pressure regulator
- ☐ Limited one year parts & labor warranty

OPTIONS & ACCESSORIES

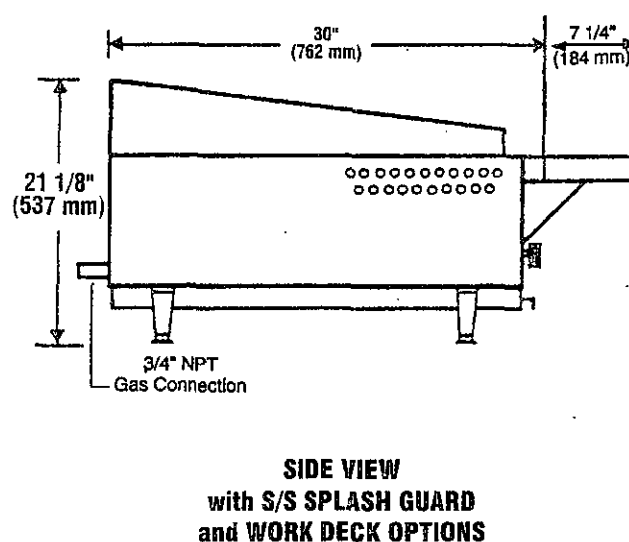
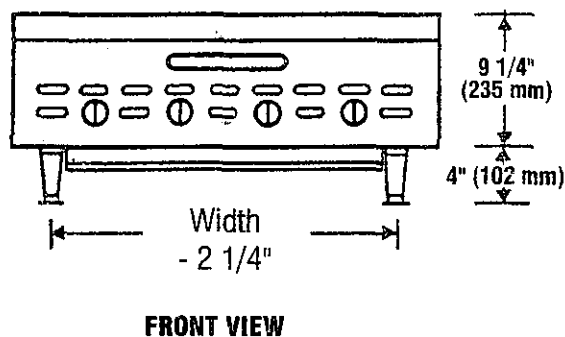
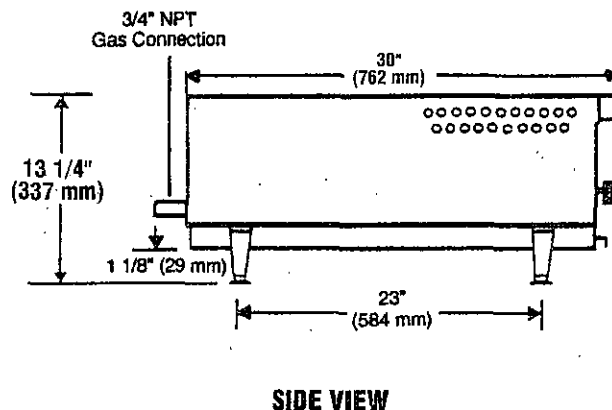
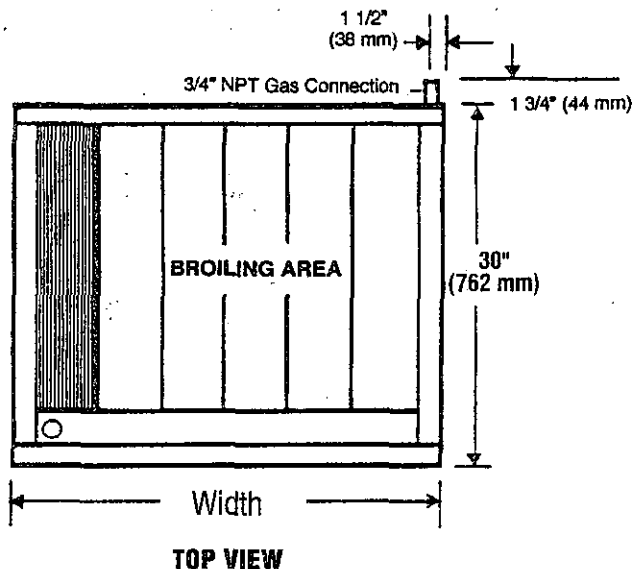
- ☒ Stainless steel front-mounted work deck with or without sauce pan cut-outs
- ☐ Richlite front mounted work deck with or without sauce pan cut-outs
- ☐ Flame failure safety pilots and CE approval (see XXE models)
- ☒ Cast iron radiants
- ☐ Cast iron burners
- ☐ Stainless steel equipment stand with or without casters
- ☒ Meat, fish grates, floating, square rod and/or fajita grates
- ☐ Char broiler and grilling utensils
- ☐ Gas connector hoses
- ☒ Stainless steel splash guards
- ☐ Removable griddle plates

CERTIFICATIONS



BAKERS PRIDE OVEN COMPANY, INC.
30 Pine Street, New Rochelle, NY 10801
914/576-0200 • 1-800-431-2745 • fax 914/576-0605

Continuous product improvement is a policy of Bakers Pride Oven Company. Therefore, specifications and design are subject to change without notification.



ALL DIMENSIONS NOMINAL

SHIPPING INFORMATION								
Model	Shipping Weight		Carton Dimensions					
	Lbs.	Kilos	Width		Depth		Height	
			Inches	mm	Inches	mm	Inches	mm
XX-4	378	171	32	813	36	914	28	711
XX-6	496	225	34	867	52	1321	28	711
XX-8	608	276	34	867	52	1321	28	711
XX-10	800	363	34	867	64	1626	28	711

GAS SUPPLY 3/4" NPT gas connection		
Model	BTUH	KW
XX-4	72,000	18.15
XX-6	108,000	27.22
XX-8	144,000	36.29
XX-10	180,000	45.36

SPECIFICATIONS										
Model	Broiling Area		# Top Grates	# of Burners	Overall Dimensions*					
	in.	mm			Width		Depth		Height	
					inches	mm	inches	mm	inches	mm
XX-4	21x24	533x610	4	4	26 1/4	667	30	762	13 1/4	337
XX-6	31 1/2x24	800x610	6	6	36 3/4	933	30	762	13 1/4	337
XX-8	42x24	1067x610	8	8	47 3/4	1213	30	762	13 1/4	337
XX-10	52 1/2x24	1334x610	10	10	58 1/4	1480	30	762	13 1/4	337

*Height includes 4" (102 mm) standard legs

MINIMUM CLEARANCES*		
	Inches	mm
Right	0	0
Left	0	0
Rear	0	0

* From non-combustible construction
* Install only with non-combustible material above grate level



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TS:01/00

ITEM 32

Deep Fryer

Two (2) each Henny Penny OFG-322 natural gas two (2) well open fryer battery complete with thermostatic controls; automatic reset timer; built-in filter system in single footprint for hot oil filtration; gas safety shut-off valve; casters; stainless steel fry pots, front, and two (2) sides. Item to include the following accessories:

- One (1) each – Henny Penny FS100.01 shortening shuttle safety grease disposal unit
- Two (2) each – Avtec $\frac{3}{4}$ " x 48" gas hose with quick disconnect
- Two (2) each – Custom wing sauce holders

Mechanical Requirements:

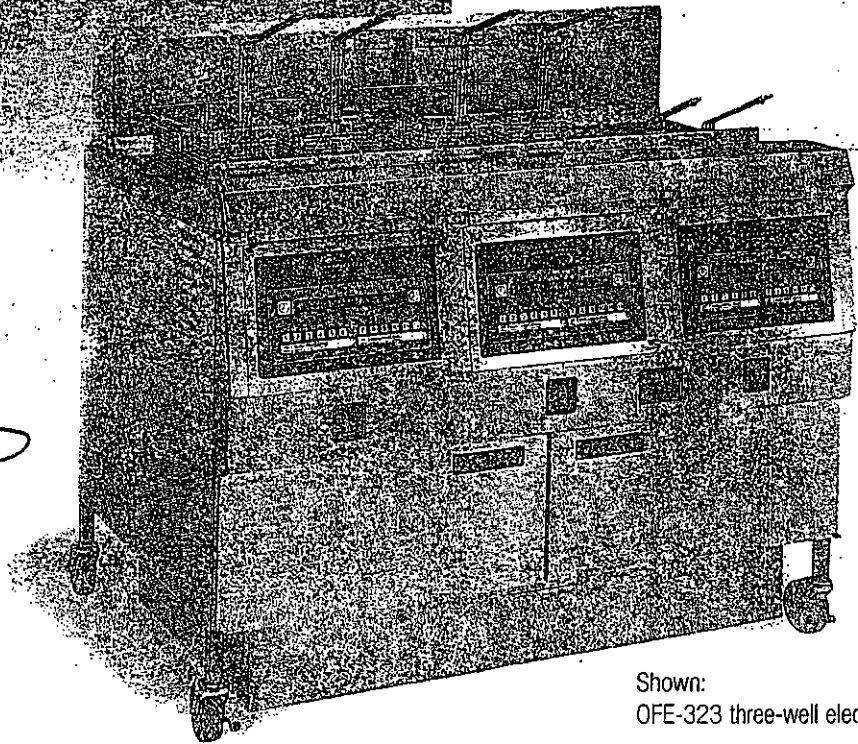
- (2) $\frac{3}{4}$ " natural gas – 170,000 BTU each
- (2) 120V/ 15Amp outlets NEMA 5-15P

Open Fryers

OFE-321 Single well, electric
OFE-322 Two-well, electric
OFE-323 Three-well, electric
OFE-324 Four-well, electric

OFG-321 Single well, gas
OFG-322 Two-well, gas
OFG-323 Three-well, gas
OFG-324 Four-well, gas

These compact, high volume open fryers are designed for greater efficiency, faster cycle recovery time and simpler programmable operation.



Shown:
OFE-323 three-well electric

Description

Henny Penny Open Fryers offer up to four large-capacity wells in a slim footprint, with easy-to-use programmable controls, optimal energy efficiency and durable, round-the-clock operation. All models include built-in filtration.

Configuration

- Choose from one, two, three or four-well models.
- Available in electric or gas.
- Also available with electro-mechanical controls.
- Auto Lift models available—see separate Data Sheet.
- Special two-well fryer with built-in dump station available—see separate Data sheet.
- Connector kits available separately for connecting any combination of one, two, or three-well units (all electric or all gas).

Main Features

- Electronic controls for each well feature:
 - 12 programmable cook cycles.
 - Digital time and temperature display.
 - Dual timers to time half baskets separately.
 - Idle and melt modes.
 - Load compensation feature.
 - Cook cycle completion signal.
- Stainless steel rectangular fry pots promote more even cooking.
- Specially designed cold zone prevents scorching.
- One convenient, built-in filtering system serves up to three wells. Four-well models include two filtering units.
- Switch activated.
- Unique pivoting return spout refills wells.
- Drain pan stores conveniently under fryer.
- Doors swing open for easy access.

Accessories shipped with unit:

- (1) Set of cleaning brushes
- (10) Filter envelopes
- (4) Heavy-duty casters, two locking, for one, two and three-well units.
- (8) Casters, four locking, for four-well units.
- (2) Half-baskets with handles OR (1) full basket with handle per well. Please specify when ordering.
- (1) Basket supports per well.
- (1) Installation, operating and service manual.

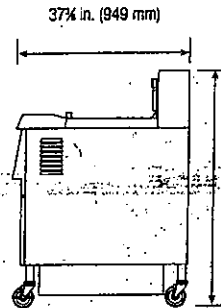
Henny Penny Corporation
P.O. Box 60
Eaton, OH 45320

+1 937 456.8400
+1 937 456.8402 Fax

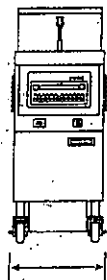
Toll free in USA
800 417.8417
800 417.8402 Fax

www.hennypenny.com

OFE/OFG 321-322 323-324 Specifications

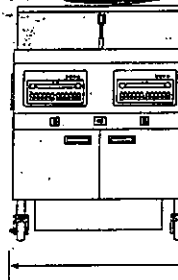


OFE/OFG-321



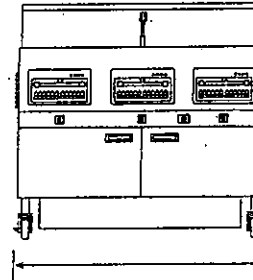
17 1/4 in.
(441 mm)

OFE/OFG-322



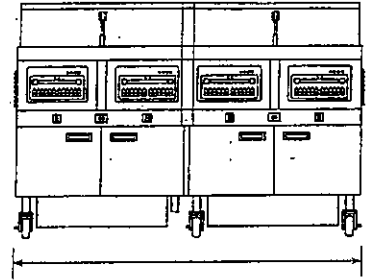
33 1/2 in. (847 mm)

OFE/OFG-323



49 1/2 in. (1254 mm)

OFE/OFG-324



67 in. (1699 mm)

Dimensions

Floor Space

Capacity

Product
Shortening

Fryer Throughput

OFE
OFG

Heating Format

Electric
Gas

Shipping Weight

OFE
OFG

Listings

OFE
OFG

Electrical

Specifications subject to change without notice

Single well	Two well	Three Well	Four well
4.3 sq. ft. (.4 m ²)	7.9 sq. ft. (.73 m ²)	11.8 sq. ft. (1.1 m ²)	16 sq. ft. (1.5 m ²)
15 lbs. (6.8 kg)	30 lbs. (13.6 kg)	45 lbs. (20.4 kg)	60 lbs. (27.2 kg)
65 lbs. (29.5 kg)	130 lbs. (59 kg)	195 lbs. (88.5 kg)	220 lbs. (118 kg)
Fries/hr: 63 lbs. (28.6 kg)	Fries/hr: 126 lbs. (57.2 kg)	Fries/hr: 189 lbs. (85.8 kg)	Fries/hr: 252 lbs. (114.4 kg)
Fries/hr: 72 lbs. (32.7 kg)	Fries/hr: 144 lbs. (65.4 kg)	Fries/hr: 216 lbs. (98.1 kg)	Fries/hr: 288 lbs. (130.8 kg)
Electric immersion 14.4 kw	28.8 kw	43.2 kw	57.6 kw
Natural or propane gas (1) burner (1) 1/2 in. connection 85,000 BTU/hr (25 kw)	(2) burners (1) 3/4 in. connection 170,000 BTU/hr (50 kw)	(3) burners (1) 1 in. connection 255,000 BTU/hr (75 kw)	(4) burners (2) 3/4 in. connections 340,000 BTU/hr (100 kw)
281 lbs. (128 kg)	407 lbs. (185 kg)	523 lbs. (237 kg)	786 lbs. (357 kg)
305 lbs. (138 kg)	467 lbs. (212 kg)	614 lbs. (279 kg)	923 lbs. (419 kg)
UL, UL Sanitation, CUL, CE			
AGA, CGA, UL Sanitation, CE			

Model	Voltage	Phase	Cycle/Hz	Amps
Electric units*	200-208	3	50/60	39.9/well
	220-240			37.2/well
Gas units	120	1	50 or 60	12
	230	1	50	2.5

All international voltages available.

* Power cord and plug need to be installed on site by a qualified technician.

Order from:

Manufactured by:

Henny Penny Corporation

P.O. Box 60
Eaton, OH 45320

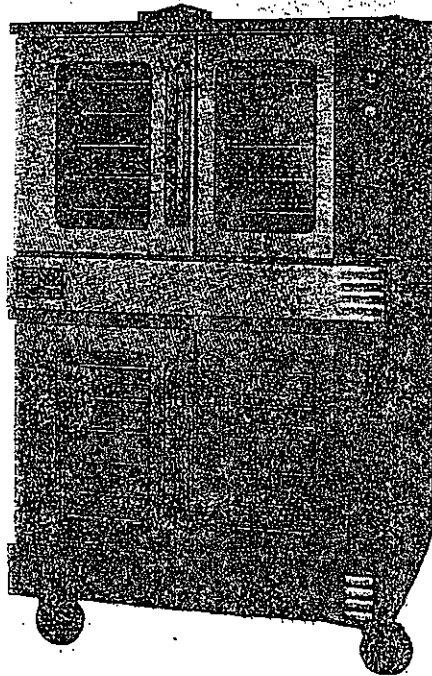
First in Cooking, Built to Last.

southbend

A MIDDLEBY COMPANY

SilverStar**Gas, Double Deck, Convection Oven**

Models: SLGS-22SC, SLGS-22CCH SLGB-22SC, SLGB-22CCH

**SilverStar, Gas, Double Deck, Convection Oven****AVAILABLE CONTROLS****SC-Standard Controls**

140°F to 500°F solid state thermostat and 60 minute mechanical cook timer

CCH-Cycle/Cook & Hold

150°F to 500°F temperature controller with 140° to 200°F "Hold" thermostat. Dual digital display shows time and temperature. A fan cycle timer pulses the fan.

OPTIONS (CONTINUED)

- ☐ Marine edge top for Steamer mounting
- ☐ Knocked down packaging

**INQUIRE TO FACTORY FOR
SPECIAL OR CUSTOM
REQUIREMENTS.**

Southbend has a policy of continuous product research and improvement. We reserve the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.

The **SilverStar** series of convection ovens deliver increased productivity in a smaller footprint. It features the new JS-901 Jet Stream Burner System, which provides a proven technology in an entirely new application. These horizontal, 5 1/2" burners are cool-to-the-touch but actually produce an incredibly high efficiency flame, low in NOX and high in moisture content. Energy saving 54,000 BTU models produces the most even bake witnessed by numerous chefs. Two depths available, as well as two control panel configurations. Both control panel options feature a patented "plug-in, plug-out" design that allows for easy servicing. This feature also allows the user to upgrade an oven to one with features not needed when purchased, without the cost of a new oven.

Standard Features

- Stainless Steel front
- Dependent Stainless Steel doors with windows
- Porcelainized interior
- Rugged double door unit
- Stainless Steel door seals
- "Soft Air" two speed, 1/2 hp. fan motor
- 11-position rack guides
- 5 plated oven racks
- Electronic ignition
- Solid State temperature controls
- Forced cool-down fan mode
- Oven "ready" light -cycles with burners

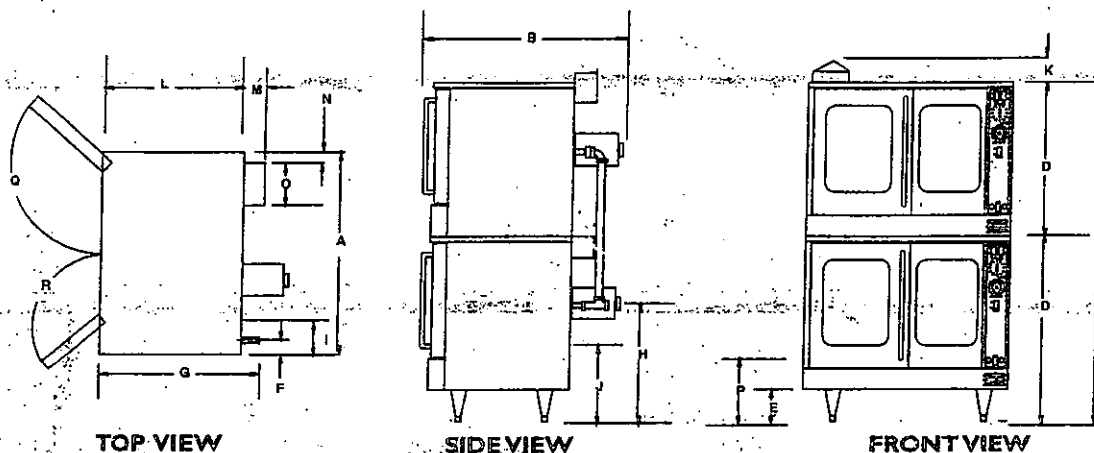
Accessories

- Extra oven racks
- Down draft diverter for direct flue
- 3/4" quick disconnect with flexible hose (specify length: 4 ft. or 5 ft.)

Technical Data: listed on the reverse side.

Warranty: One year parts and labor warranty at no extra charge from the date of purchase.



**DIMENSIONS:**

() = Millimeters

MODELS		EXTERIOR					3/4" GAS CONNECTION			ELECTRICAL		FLUE					
		Width A	Depth B	Height C	D	E	F	G	H	I	J	K	L	M	N	O	
☒	SLGS-22	Standard Depth	38" (965)	38 3/4" (984)	64" (1626)	29" (737)	6" (152)	1 1/4" (32)	34 3/8" (873)	22 7/8" (581)	2 1/2" (64)	9 1/4" (235)	2 1/4" (64)	30" (762)	4" (102)	2 1/4" (57)	8" (203)
	SLGB-22	Bakery Depth	38" (965)	48" (1219)	64" (1626)	29" (737)	6" (152)	1 1/4" (32)	40 3/4" (1035)	22 7/8" (581)	2 1/2" (64)	9 1/4" (235)	2 1/4" (64)	36 3/8" (924)	4" (102)	2 1/4" (57)	8" (203)

* Depth without handle is 45" (1143 mm)

MODELS		Oven Bottom P	Door Opening Q	Door Opening R	OVEN INTERIOR			RACK CLEARANCE		CRATE SIZE			Cubic Volume	Crated Weight
					Width	Depth	Height	Width	Depth	Width	Depth	Height*		
☒ SLGS-22	Standard Depth	13" (330)	18 5/8" (473)	13 1/2" (343)	29" (740)	22" (572)	20" (510)	28 1/4" (720)	22" (559)	55" (1397)	45 1/2" (1156)	45" (1143)	118 cu. ft. (3.34 cu. m.)	1040 lbs.
	Bakery Depth	13" (330)	18 5/8" (473)	13 1/2" (343)	29" (740)	29" (740)	20" (510)	28 1/4" (720)	28 1/4" (720)	55" (1397)	45 1/2" (1156)	45" (1143)	118 cu. ft. (3.34 cu. m.)	1040 lbs.

*with stacking option crated height is 69" (1753 mm)

UTILITY INFORMATION:**GAS:** SLGS-22 — 108,000 BTU

SLGB-22 — 144,000 BTU

One 1/4" male connection (for location, see drawing above).

Required supply pressure: Natural Gas 7" W.C.

ELECTRIC: (for location, see drawing above).

- ☐ Standard: 120/60/1 — furnished with 6-ft cords w/3-prong plug.
NEMA#5 - 15p, Total maximum amps 7.9.

☒ Optional — 208/60/1 or 3" phase (190 to 219 volts) — supply must be wired to junction box with terminal block located at rear of deck. Total maximum amps 4.3.

☐ Optional — 240/60/1 or 3" phase (220 to 240 volts) — supply must be wired to junction box with terminal block located at rear of deck. Total maximum amps 3.8.

☐ Optional — 240/50/1 or 3" phase (208 to 240 volts) — supply must be wired to junction box with terminal block located at rear of deck. Total maximum amps 6.0.

*All units are shipped single phase. Single phase units can be easily converted to three phase.

CONSTRUCTION (BIDDING) SPECIFICATIONS:

☐ Commercial Gas Convection Oven - 38" W x 38 1/4" D x 64" H
(Including 6" high legs.)

☐ Exterior Finish: Black sides and top, Stainless Steel front. Back aluminized steel.

☐ Doors: Dependent doors. Stainless Steel interior and exterior. Heavy-duty welded steel frame.
1/4" diameter pivot rod with hinge pins.

☐ Oven Interior: Porcelain enamel finish

☐ Rack and Rack Guides: Bright plated heavy duty removable wire rack guides spaced on 1 5/8" centers offer 11 different rack positions. 5 bright plated heavy-duty wire racks provided with each oven.

☐ Blower Fan and Motor 1/2 hp. 2 speed motor, 1725/1140 r.p.m. Motor mounted to right side.

☐ Oven Heating: Three (GB) inshot style burners direct flame towards rear of combustion chamber. Combustion products are drawn into oven interior and recirculated prior to venting.

☐ Electronic Ignition: Hot surface igniter with flame safety device.

☐ Control Panel: Located on front, at right side of oven, away from heat zone. Panel hinges down for easy servicing.

☐ Leg Options: Black standard, 6" Stainless Steel legs optional.

MISCELLANEOUS INFORMATION

☐ If using flex hose connector, the I.D. should not be smaller than 3/4", and must be comply with ANSI Z 21.69

☐ If casters are used with flex hose, a restraining device should be used to eliminate undue strain on the flex hose.

☐ Clearances from combustibles: Top, bottom, right side-0", left-3".

☐ Recommended install under vented hood.

☐ Check local codes for fire and sanitary regulations.

☐ If the unit is connected directly to the outside flue, an A.G.A. approved down draft diverter must be installed at the flue outlet of the oven.

☐ Oven cannot be operated without fan in operation.

**INTENDED FOR COMMERCIAL USE ONLY.
NOT FOR HOUSEHOLD USE.**

ITEM 18

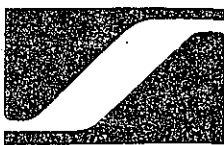
Hot Top Range

One (1) each U.S. Range RHPA-424A countertop restaurant range with stainless steel front; four (4) open burners; natural gas. To include the following accessories:

- One (1) set – legs
- One (1) each – 3/4" x 48" Avtec gas hose with quick disconnect
- One (1) each – Advance Tabco ES-302 equipment stand

Mechanical Requirements:

3/4" Nat. gas connection @ 104,000 BTUH



First in Cooking, Built to Last.

southbend

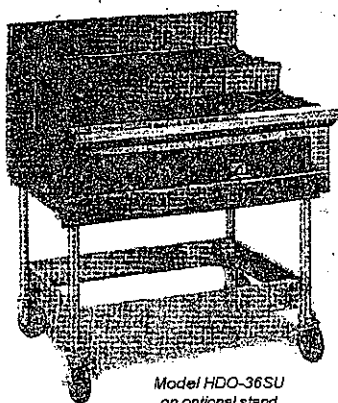
Job: _____ Item No.: _____

18.

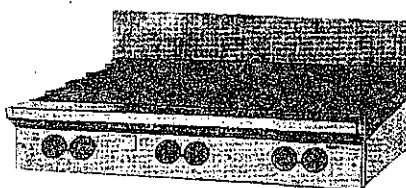
COUNTERTOP RANGE

Gas Modular Countertop Ranges

Models: HDO-12, HDO-24, HDO-36
Step-Up Models: HDO-100, HDO-36SU



Model HDO-36SU
on optional stand



Model HDO-36

All Units

Stainless steel front and sides standard. Rear and bottom panels are aluminized steel.

Technical Data

Listed on the reverse side.

Warranty

One year Parts and Labor Warranty at no extra charge from the date of purchase.

Options

Inquire to factory for custom or special requirements.

Southbend presents the most heavy duty countertop range in food service. With Southbend's new design, you add flexibility to your counter cooking system.

Standard Features:

- Stainless steel front and sides.
- 3/4" rear gas connection and pressure regulator.
- Full width crumb tray.
- 26,000 BTU cast iron open top burners.
- 12" cast flush top grates.
- 4" stainless steel legs.

Capabilities

- Versatile Hi/Low burner characteristics - ideal from sauté to simmer.
- State of the art burner design delivers more production and better recovery
- Zero inch side clearance

Cleanability

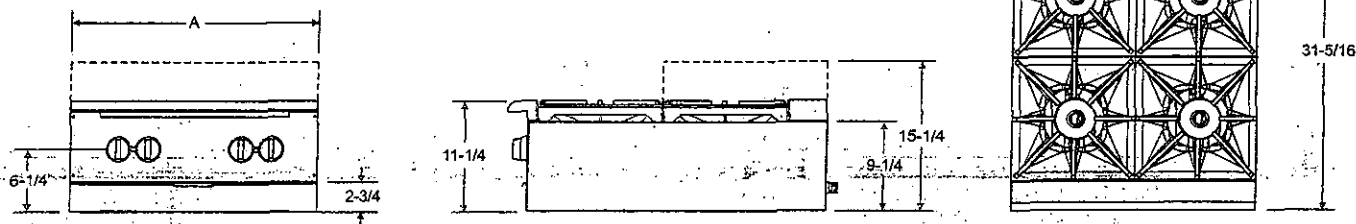
- Stainless steel front, and sides standard.
- Full width crumb tray.
- Non-clogging ports with built-in drip shield.

Southbend has a policy of continuous product research and improvement. We reserve the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions or replacements for previously purchased equipment.



RR-27A

18



DIMENSIONS:

Model	Width (A)	Burners	Crate Size	Crated Weight
HDO-12	12" 305mm	2 @ 26,000 BTU ea.	31"W x 39"D x 24"H 787 x 991 x 610mm	155 lbs. 70.4 kg
HDO-24	24" 610mm	4 @ 26,000 BTU ea.	31"W x 39"D x 24"H 787 x 991 x 610mm	190 lbs. 86.3 kg
HDO-36	36" 914mm	6 @ 26,000 BTU ea.	55"W x 39"D x 24"H 1397 x 991 x 610mm	230 lbs. 105 kg
HDO-24SU	24" 914mm	4 @ 26,000 BTU ea.	31"W x 39"D x 24"H 787 x 991 x 610mm	190 lbs. 86.3 kg
HDO-36SU	36" 914mm	6 @ 26,000 BTU ea.	55"W x 39"D x 24"H 1397 x 991 x 610mm	230 lbs. 105 kg

Utility Information

- Gas - Countertop, open burner range
- HDO-12 - Total 52,000 BTU.
- HDO-24, HDO-24SU - Total 104,000 BTU.
- HDO-36, HDO-36SU - Total 156,000 BTU.

One 3/4" male connection required (for location, see drawing above).

- Natural
Required Operating Pressure: 4" W.C.
- Propane
Required Operating Pressure: 10" W.C.

Construction (Bidding) Specifications

- Cabinet: Front, including top rail sides are all stainless steel. Rear and bottom panels are 20 gauge aluminized steel.
- Gas Heat Control Systems: 26,000 BTU cast burner is controlled by a throttling gas valve for independent

control of the flame. One standing pilot services each burner. A 3/4" rear gas connection is standard. Area over burners is covered by heavy cast iron grates.

- Approvals: CSA (USA & Canada) design certified, NSF listed.

Installation Information

- Free Standing Models: Required operating pressures are 4" W.C. for "natural" gas and 10" W.C. for "propane" gas. 3/4" NPT rear gas connection with pressure regulator is standard.

- Flex Hose: Use only a commercial flex hose. The I.D. should not be smaller than the I.D. of the pipe from the unit to which it is connected.
- Check local codes for fire and sanitary regulations.

INTENDED FOR COMMERCIAL USE ONLY. NOT FOR HOUSEHOLD USE.
ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ITEM 17

Stock Pot Range

One (1) each U.S. Range (2)SP-1844 custom double stockpot range with (2) 45,000 BTU burners; open leg base; natural gas. To include the following accessory:

- One (1) each - Avtec $\frac{3}{4}$ " x 48" gas hose with quick disconnect kit

Mechanical Requirements:

$\frac{3}{4}$ " natural gas connection
90,000 BTUH



U.S. Range

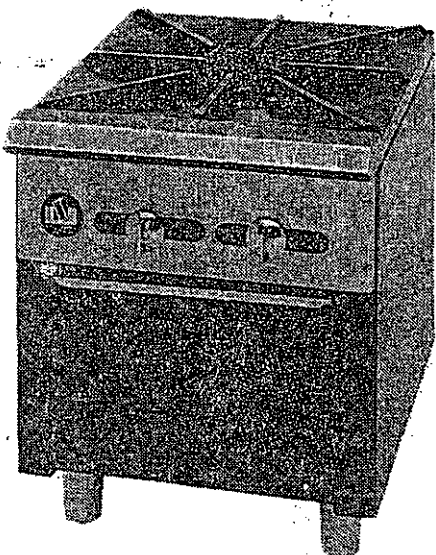
A WELBILT Company

17

Item #: _____

Model #: _____

Product Name: Regal Series Stock Pot Stoves



SP-1845

Standard Features

- One-Piece Heavy Cast Reinforced Top Grate and Rim Roll.
- Large Capacity, Removable Drip Pan.
- High Speed Type Burners.
- 45,000 BTU/HR Per Burner with Natural Gas and Propane.
- Standing Pilot for Instant Lighting.
- 3/4" Gas Regulator.
- 6" Legs with Adjustable Feet.
- Exterior Finish - Black Enamel with Stainless Steel Front.

Optional Features

- ☐ Casters On Stand - Swivel Type

Type of Gas

- ☒ Natural
☐ Propane
☐ Elevation above 2,000 ft. - Specify ____ ft.

Short Form Specifications

Shall be U.S. Range Stock Pot, Model 2 SP-1844 with total BTU/Hour rating of _____ when used with natural/propane gas. Finish is to be stainless steel front and painted sides.



U.S. Range

Regal Series Stock Pot Stoves

Model # SP-1844/45

For USA, Contact:
 Garland Commercial Industries, INC.
 Tel: 717-636-1000
 Fax: 717-636-3903

For United Kingdom & Ireland, Contact:
 Garland Catering Equipment, Ltd.
 Tel: 0181-561-0433
 Fax: 0181-848-0041

For Canada & the Rest of the World, Contact:
 Garland Commercial Ranges, Ltd.
 Tel: 905-624-0260
 Fax: 905-624-5669

Model # SP-1844/45

Regal Series Stock Pot Stoves



U.S. Range

A WELBILT Company

Item #:

17

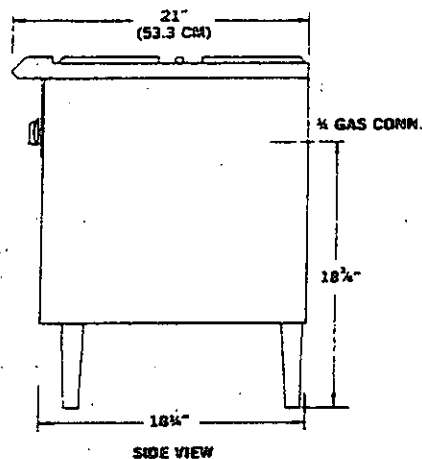
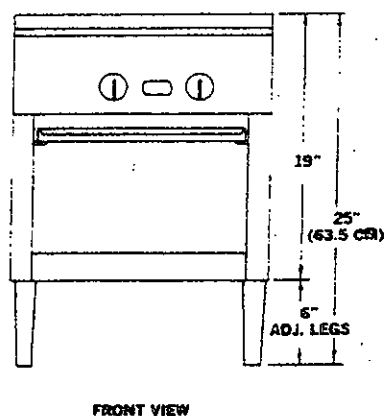
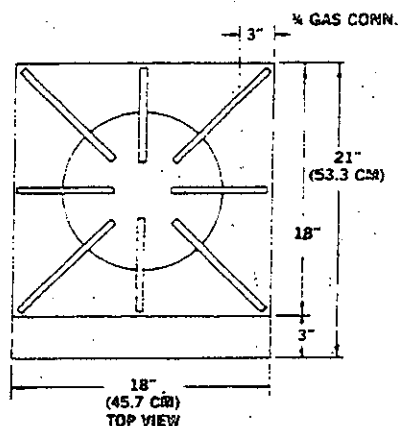
Model #:

Product Name: Regal Series Stock Pot Stoves

Models Available		Total Nat./Propane BTU	Shipping Information		
Model No.	Description		Lbs.	Kg	(WxDxH)
Stock Pot Stoves					
☒ SP-1844	Pipe legs	45,000	80	36	27" x 22" x 26"
☐ SP-1845	Cabinet Base	45,000	110	50	27" x 22" x 26"

Specifications

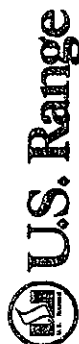
Series Stock Pots Description	SP-1844	SP-1845
Width	18"	18"
Depth	21"	21"
Height	25"	25"
No. Burners	1	1
BTU/Hour Natural/Propane	45,000	45,000
Gas Manifold	3/4" IPS	3/4" IPS



NOTE:

- Many local codes exist, and it is the responsibility of the Owner and Installer to comply with those codes.
- U.S. Range reserves the right to change or improve our specifications without notification.
- These appliances are intended for commercial use by professionally trained personnel.

Form # SP (7/98)



Phone: 800-862-8601 or
507-235-9860
Fax: 507-235-9834

**Captive Aire
Fairmont, MN**

Fax

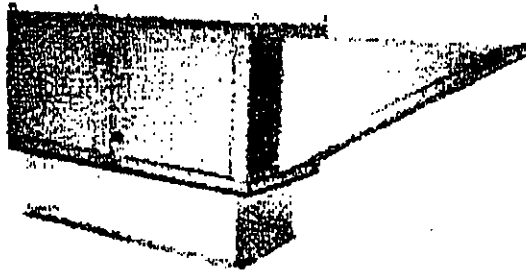
To: Ed @ Design Line	From: Susan Wilken
Fax: 732-935-1788	Date: May 21, 2003
Phone:	Pages: 6
Re: Famous Dave Brick NJ	CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

•Comments:

Follows is information on the heated make up air unit furnished by Captive Aire for the Famous Daves in Brick NJ.

AD MODULAR DIRECT FIRED HEATERS

CAPTIVEAIRTM


- Air Volume: 1000 - 21000 cfm
- Maximum SP: 2" wg. @ standard air density

The Direct Gas Fired Make-Up Air package is designed to deliver tempered make-up air for installations requiring frequent air changes. Units are designed for natural and propane gas applications, and for indoor or outdoor installation.



Packages are certified to the ANSI Z83.4-1999/CSA 3.7-M99 combined standard and are available in sizes up to 2,500,000 BTUH and 21,000 CFM. Standard features include intermittent spark ignition system with timed safety lockout, and redundant gas valves. Units consist of a galvanized enclosure with an elevated gas burner which burns directly in the air stream. The burner consists of non-clogging, stainless steel combustion baffles attached to a cast iron gas supply section. The burner is capable of 100% thermal efficiency with a maximum turndown ratio of 30 to 1. The products of combustion mix with the make-up air which is introduced into the heater intake directly from outside the building. The burner module has a standard horizontal inlet and discharge duct connection and is located upstream of the blower module. The blower module has a standard horizontal inlet designed to accommodate an outside air inlet hood with standard 2" filters and screen.

To satisfy a variety of installation requirements, packages are available in a number of configurations which include additions of either a v-bank or an evaporative cooler intake module. All modules bolt together to form a rigid common base structure that mounts onto a single curb structure.

FEATURES & BENEFITS

- Fully insulated casing.
- Stainless steel burner.
- 120 volt control transformer with single point electrical connection.
- Redundant gas valves.
- Intermittent spark pilot with timed safety lockout.
- Electronic flame modulation.
- High temperature limit switch.
- Airflow proving switch.
- Economizer inlet thermostat.
- Motor starter.
- Vibration isolation.
- High efficiency motors.
- Adjustable drive sheaves.
- Horizontal or vertical discharge.
- Disconnect switch.

(800) 965-0420

AD Specification

TYPICAL SPECIFICATIONS

Model: AD

Description: A Direct-fired gas heating and ventilating unit(s), as indicated on the drawings shall be furnished. Orientation shall be horizontal (Down) (Side) discharge. Unit(s) shall be factory assembled, tested and shipped as a complete packaged assembly, for indoor or outdoor mounting, consisting of the following:

1. gas burner;
2. centrifugal blower (forward-curved double width/double inlet);
3. motor starter with thermal overload protection;
4. motor and drive assembly;
5. fuel burning and safety equipment;
6. temperature control system, and
7. gas piping.

Approvals: Unit(s) shall be tested in accordance with ANSI Standard ANSI Z83.4-1998/CSA 3.7-M99, and shall bear the ETL label.

Construction:

Housing

Unit housing shall be constructed of 20 Gauge G-90 galvanized steel. The wall panels and roof panels shall be fabricated by forming double-standing, self-locking seams that require no additional support. The floor and wall panels shall be caulked air tight with a silicone caulk. All casing panels shall be attached with sheet-metal, screws or rivets which can be removed to field service large components. The unit base shall be suitable for curb or flat mount. Housing construction should be suitable for outdoor or indoor installation.

An observation port shall be located on the exterior of the unit for observation of the main flame and pilot flame. All controls, gas valves, modulating controls and electrical components shall be mounted within the burner vestibule. The burner vestibule shall be an integral part of the unit and not extend outside the exterior casing of the unit and not exposed to the main air stream.

The vestibule full-size door shall provide easy access to controls and gas-train components. Blower door shall provide easy access to blower, motor and drives. Access doors shall be provided on both front and back side of unit providing full access to every part of the unit.

Base

The base shall be constructed of galvanized steel for improved rigidity. Base shall be structurally reinforced to accommodate the blower assembly and burner.

Blower

Blower(s) shall be forward-curved, centrifugal, Class I or II, (depending on requirements of the application) double width, double inlet. Unit shall have a heavy-duty, solid-steel shaft. Wheels shall be balanced in two planes and done in accordance with AMCA standard 204-96, *Balance Quality and Vibration Levels for Fans*. The wheel blades shall be aerodynamically designed to minimize turbulence, increase efficiency and reduce noise. The wheel blades shall be securely attached to the wheel inlet ring. The wheel shall be firmly attached to the fan shaft with set screws and keys. The blower assembly shall be isolated from the fan structure with vibration isolators.

Blower capacity shall be _____ CFM at 70 degrees F standard air, _____ external static press.

External Static: The sum of duct loss plus duct component static. Example: louvers, diffusers. All blowers shall be tested and set at rated speed after being installed in the factory-assembled unit.

Motor & Motor Compartment

Motors shall be heavy duty ball bearing type and furnished at the specified voltage, phase and enclosure. Motor mounting plate shall be constructed of heavy gauge galvanized steel and shall be designed to provide easy adjustment of belt tension. Blower motor shall be suitable for operation on _____ volts, _____ cycle, _____ phase power. Blower motor shall be a _____ HP motor, Open Drip Proof.

Shaft & Bearings

Shafts shall be precision ground and polished. Heavy duty, pre-lubricated bearings shall be selected for a minimum (L50) life in excess of 200,000 hours of operation at maximum cataloged operating speed. They shall be designed for, and individually tested specifically for use in air handling applications.

Belts & Drives

Belts shall be oil and heat resistant, non-static, grip-notch type. Drives shall be cast type, precision machined and keyed and secured attached to the fan and motor shafts. Fan operating speed shall be factory set using adjustable pitch motor pulleys. Blower drives shall be fully adjustable. All drives shall be a minimum of 2 groove above 2 HP.

Burner

The gas burner shall be a direct-fired, draw-through type, sized to provide an output of _____ BTU/hr using (natural) (propane) gas at an inlet-supply pressure to the unit of _____ inches water column.

The burner shall be capable of heating the entire air supply from _____ F° to _____ F° (_____ degrees F temperature rise). The burner shall burn over its entire length at all times when the system is in operation.

The burner shall have non-clogging, 4302B stainless-steel combustion baffles attached to a ductile cast-iron gas-supply section with no moving parts to wear out or fail. The burner shall be capable of 100% combustion efficiency with a maximum turndown ratio of 30 to 1.

The gas burner shall be, furnished with a pilot package arranged so that the pilot flame lights the burner with instantaneous ignition. Pilot assembly includes a flame rod, spark rod and pilot—automatically ignited by a 6,000 volt ignition transformer. A flame-rod rectification system shall be used to prove pilot and main flame.

Rear access doors or a removable lid will provide complete access to burner and pilot assembly.

Burner profile plates shall be self-adjusting to operate across the complete CFM range of each model heater. Every unit shall be design for Variable Air Volume capabilities.

GAS EQUIPMENT

Standard

All gas equipment shall conform to local-Code requirements

Components:

1. pilot-gas shut-off valve	5. main-gas regulator
2. pilot-gas regulator	6. two solenoid valves
3. pilot-gas valve	7. modulating-gas valve
4. main-gas shut-off valve	8. burner

All gas manifold components shall be piped and wired at the factory.

Optional

high-gas pressure regulator

SAFETY CONTROLS

Standard

1. motor starter with adjustable overloads	5. main-gas regulator
2. air-flow safety switch	6. two solenoid valves

3. electronic flame-safety relay	7. modulating-gas valve
4. high-temperature limit switch	8. burner
9. Adjustable burner ON/OFF inlet air ductstat to shut off burner when inlet air is sufficiently warm to maintain space temperature.	
10. Non-Fused Disconnect.	
11. Casing insulation shall be 1" x 1.5# density with a foil face.	

Optional

1. High gas-pressure switches to open circuit to electronic flame-safety relay, if gas pressure is too high.
2. Low gas-pressure switch to open circuit to electronic flame safety rely, if gas pressure is too low.
3. Adjustable low temperature blower-safety control with bypass timer to shut down unit, if discharge temperature drops below setting.
4. Proof-of-closure switch to energize the main-burner circuit only if the motorized gas valve is in a closed position.

ACCESSORIES

1. **Inlet Dampers:** Manufacturer shall provide and install on unit, when possible, a two-position, motor-operated damper with internal end switch to energize the blower-starter circuit, when damper is 80% open. Blades shall be a maximum of 6" wide 16 Gauge G-90 galvanized steel shall be made to guarantee the absence of noticeable vibration at design air velocities. Damper blades to be mounted on friction-free synthetic bearings. Damper edges shall have PVC coated polyester fabric mechanically locked into blade edge. Jamb seals to be flexible metal, compression type.
2. **Filters:** The filters shall be (2") thick, aluminum mesh, coated with super-filter adhesive. Aluminum-mesh filters shall have aluminum frames with media to be layers of slit and expanded aluminum, varying in pattern to obtain maximum depth loading. Washable 2" filters shall be enclosed in two-piece, die-cut frame with diagonal supports. Frame shall be constructed of heavy-duty beverage board. Filter media is supported on the air leaving side by a metal grid.

Filter Section: shall be (insulated) (uninsulated) constructed of G-90 galvanized steel with filters supported by internal slides and with removable access panels. Filters shall be provided in a v-bank arrangement.

3. **Fresh-Air Inlet Hood:** Shall be constructed of G-90 galvanized steel with birdscreen.
4. **Fresh-Air Inlet Hood/Filter Combination:** Shall be constructed of G-90 galvanized steel with birdscreen and (2") cleanable filters supported by internal slides mounted in the inlet face of the hood.
5. **Discharge Diffusers:** Shall be constructed of G-90 galvanized steel with horizontal and vertical blades capable of four-way diffusion.
6. **Curb:** 20" curb shall be constructed of 16 ga G-90 galvanized steel as a completed welded assembly.

TEMPERATURE CONTROL SYSTEMS

Maxitrol Series 14: For building exhaust-air replacement to maintain a constant discharge temperature of supply air. The burner flame modulates to compensate for outdoor temperatures. The optional manual SUMMER-OFF/WINTER selector switch and exhaust system interlock control the heater-blower operation. Supplied with optional remote-control panel with temperature selector dial and SUMMER-OFF/WINTER selector.

Maxitrol Series 14 with room override: For building-exhaust air replacement and auxiliary-space heating to maintain a constant supply-air discharge temperature. A room override thermostat raises discharge set-point for more heat to maintain room temperature. Discharge temperature probe and room-override thermostat modulate burner flame. Optional SUMMER-OFF/WINTER selector switch and exhaust-system interlock control heater-blower operation. Supplied with optional remote-control panel with temperature-selection dial, SUMMER-OFF/WINTER selector switch and room-override thermostat.

Maxitrol Series 44: For building exhaust-air replacement with modulated space-temperature control. A modulating space thermostat adjusts burner flame to maintain discharge-air temperature to compensate for changing building heat losses or gains. High- and low-discharge air sensor probes limit maximum and minimum discharge-air temperatures. The optional SUMMER-OFF/WINTER selector switch and exhaust-system interlocks control heater-blower operation. Supplied with optional remote-control panel with SUMMER-OFF/WINTER selector switch and a modulating-room thermostat.

OTHER OPTIONS

Operating lights mounted in a remote-control panel to indicate: power, flame failure, burner ON and blower ON.

WIRING AND ELECTRICAL

A single point electrical connection shall be supplied. The control circuit voltage shall be 115 volts. A control transformer shall be provided, when required. The control wiring shall be carried in wire channel or conduit. Wiring in control enclosures shall be in accordance with the National Electrical Code and the local code, as it may affect the installation. Motor starter shall be provided. Starter shall be line voltage, definite purpose type.

Unit(s) shall be complete with all items such as relays, starters, switches, safety controls, conduit and wire as previously mentioned, and as required for proper operation. All factory-mounted controls shall be factory prewired to the unit control panel.

FACTORY TESTED

Unit(s) shall be operated, tested and set at the factory using job-site conditions for electrical and gas input. All operating and safety controls shall be tested and set at the factory. Adjustable, or fixed sheaves shall be set for proper RPM at specified conditions. Gas-pressure regulator shall be set for specified burning rate at specified inlet pressure.

SERVICE AND PARTS

The supplier shall furnish gas piping schematics, as built wiring connection and control-circuit diagrams, dimension sheets and a full description of the unit(s). Service manuals, showing service and maintenance requirements, shall be provided with each unit.

NATIONAL BUILDING CODE PLAN REVIEW RECORD

Valuation:

Plan Review #

Fee:

Date _____

JURISDICTION

(City, County, Township, etc.)

BUILDING LOCATION

(Street address)

BUILDING DESCRIPTION

REVIEWED BY

Numerals indicated in parenthesis are applicable code sections of the 1993 *BOCA National Building Code*. The organization of this Plan Review Record follows the common Building Code format implemented in the 1993 *BOCA National Building Code*. The plan review accomplished, as indicated in this record is limited to those code sections specifically identified herein. This record references commonly applicable code sections. It does not reference all code provisions which may be applicable to specific buildings. This record is designed to be used only by those who are knowledgeable and capable of exercising competent judgement in evaluating construction documents for code compliance.

CORRECTION LIST

[illegible]

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BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC.
4051 W. FLOSSMOOR ROAD COUNTRY CLUB HILLS, ILLINOIS 60478-5795

Designline Construction Services, Inc.

Wednesday, July 24, 2002

VIA FAX 732-262-8954 AND MAIL

Dan Newman, Jr.
Township of Brick
401 Chambers Bridge Road
Brick, NJ 08723

Project: Famous Dave's Bar-B-Que Restaurant
Location: 960 Cedarbridge Avenue, Brick Township, NJ
Block 670; Lot 9.02
Subject: Statement of Utility Services

Dear Dan:

With regard to the above, enclosed please find a copy of the Statement of Utility Services provided to Designline Construction by the Brick Township Municipal Utilities Authority.

Please call me at 732-935-1440, Ext. 354 if you have any questions.

Sincerely,


Doreen E. Graney
Executive Assistant

Enclosure

T:\DESIGNLINE CONSTRUCTION\Clients\Famous Dave's\Brick, NJ\Governmental Correspond\Outgoing Correspond\7-24-02 ltr. to Twp of Brick re statement of utilities.ADT

CALL WHEN READY

THE BRICK TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

1551 HIGHWAY 88 EAST
BRICK, NEW JERSEY 08724
(908) 458-7000

STATEMENT OF UTILITY SERVICES

APPLICANT: NAME: North Country BBQ Ventures, LLC PHONE NO. 732-935-1440 Doree (bus.)
ADDRESS: 160 E. 66th St.
New York, NY 10021 (home)

PROPERTY IN QUESTION: ADDRESS 960 Cedarbridge Ave.
BLOCK(S) 670 LOT(S) 9.02
BTMUA ACCOUNT NO. E472202 TAX MAP DRAWING NO. 38.01

SINGLE FAMILY RESIDENCE _____ MINOR SUBDIVISION _____
COMMERCIAL X MAJOR SUBDIVISION _____

1. UTILITY SERVICE CAN BE PROVIDED. APPLICATION FOR SERVICE IS
REQUIRED.

WATER	SEWER
<u>X</u>	<u>X</u>

CONNECTION WILL BE PROVIDED AS FOLLOWS:

WATER WITHIN UTILITY EASEMENT ON PROPERTY
(STREET)

SEWER CEAR BRIDGE AVENUE
(STREET)

INITIAL SERVICE CHARGES	
3/4" <u>2068.00</u>	1" <u>3628.00</u>
2679.00	

2. UTILITY SERVICE CANNOT BE PROVIDED AT THIS DATE.
APPLICATION FOR EXTENSION IS ☐ IS NOT ☐ REQUIRED.

commercial rates see rate schedu

3. UTILITY SERVICE CANNOT BE PROVIDED AT THIS DATE. IT SHALL BE
AVAILABLE UPON COMPLETION OF WORK BY A DEVELOPER UNDER
APPLICATION NO. _____ CONTACT THE AUTHORITY
TO CONFIRM AVAILABILITY OF SERVICES.

BUILDING NO. 2A

DEVELOPER INSTALLED 2" WATER TAP & SEWER TAP EXISTING AS PART OF DEVELOPER

DATE: July 23, 2002

SIGNED: James R. Allen

C.G. 7/19/02

NOTE: STATEMENT GOOD FOR ONE YEAR.

-sizing for water and sewer services

PROPERTY OWNER Eighteenth Venture DATE 5-19-03
 PROPERTY ADDRESS 960 Cedarbridge BLOCK 670 LOT 902

ZONING _____ USE GROUP _____

CONTRACTOR _____ LICENSE # REGISTRATION _____

WATER MAIN SIZE _____ WATER PRESSURE _____ SEWER MAIN SIZE _____

PLUMBING FIXTURES NUMBER (sfu) WATER UNITS (dfu) DRAINAGE

1: BATHROOM GROUP	_____	()	_____	()	_____
2: KITCHEN GROUP	_____	()	_____	()	_____
3: WATER CLOSETS	<u>7</u>	()	<u>17.5</u>	()	_____
4: LAVATORY	<u>6</u>	()	<u>6</u>	()	_____
5: BATH TUB	_____	()	_____	()	_____
6: SHOWER STALL	_____	()	_____	()	_____
7: KITCHEN SINK	_____	()	<u>3</u>	()	_____
8: SERVICE SINK	<u>1</u>	()	<u>3</u>	()	_____
9: LAUNDRY TRAY	_____	()	_____	()	_____
10: DISHWASHER	_____	()	_____	()	_____
11: WASHING MACHINE	_____	()	_____	()	_____
12: URINAL	<u>1</u>	()	<u>4</u>	()	_____
13: FLOOR DRAIN	_____	()	_____	()	_____
14: DRINK FOUNTAIN	_____	()	_____	()	_____
15: AIR COND WATER COOLED	_____	()	_____	()	_____
16: DENTAL UNIT	_____	()	_____	()	_____
17: LAWN SPRINKLE	_____	()	_____	()	_____
18: FIRE SPRINKLE	_____	()	_____	()	_____
19: HOSE BIBS	_____	()	_____	()	_____
<u>4 Hand Sinks</u>	<u>4</u>	()	<u>6</u>	()	_____

TOTAL _____ 39.5 _____

GALLONS PER MINUTE 25

SIZE OF SERVICE 1 1/4" by code, 2" by Engineer

DATE: 5-19-03 APPROVED: [Signature]

Brick Bureau of Fire Safety 500 Herbcristville Road, Brick, New Jersey 08724

FAXDate: 5/23/03Number of pages including cover sheet: 4**To:**Dan NewmanBuilding DepartmentPhone: 732-262-1030Fax phone: 732-262-8954

CC: _____

From:Kevin C. BatzelBrick Bureau of Fire SafetyPhone: (732) 458-4100Fax phone: (732) 458 4153**REMARKS:**☐ Urgent☒ For your review☐ Reply ASAP☐ Please comment

As per our conversation. Both events are not ready.

A handwritten signature, possibly "KCB", enclosed in an oval.



FOR IMMEDIATE RELEASE

CONTACT: Amy Ruffalo
Lissy Poace
Blanco & Peace
amyruffalo@hotmail.com
(312)573.2070

"NAMED BEST RIBS IN AMERICA"

**AWARD-WINNING FAMOUS DAVE'S BAR-B-QUE
RESTAURANT OPENS NEW LOCATION IN
BRICK, NEW JERSEY ON JUNE 2ND, 2003**

RIBBON CUTTING FESTIVITIES SET FOR 10:45 a.m. OPENING DAY

(EDEN PRAIRIE, MN, May 21, 2003) -- **FAMOUS DAVE'S OF AMERICA (NASDAQ: DAVE)** is set to open Monday, June 2, 2003 at 950 Cedar Bridge Avenue in Brick, New Jersey. This restaurant will mark the company's second location in New Jersey with at least three additional openings this year. Famous Dave's Bar-B-Que has 77 restaurants nationwide.

Famous Dave's Bar-B-Que features hickory-smoked St. Louis-style ribs, Texas Beef Brisket, and Famous Dave's award-winning Rich and Sassy Barbecue sauce. Additionally, the menu offers BBQ and Country Roasted Chicken, BBQ sandwiches, burgers, and salads. Plus, the restaurant serves up such down home classics as made-from-scratch corn bread muffins, potato salad, cole slaw, Wilbur beans and shack fries. Famous Dave's delectable homemade desserts include its award winning bread pudding and hot fudge Kahlua brownie.

"It is exciting to see Famous Dave's grow in New Jersey," stated Robert Fanelli, partner and Chief Operating Officer of North Country BBQ Ventures LLC. "As we prepare to open our newest store, we look forward to bringing the community of Brick something that everyone will enjoy, the award-winning food and excellent service that made us famous."

The new Famous Dave's Bar-B-Que is approximately 5,280 square feet with 180 seats. The lodge-themed restaurant will provide an extensive array of catering and offer a comprehensive take-out menu along with a full service bar. Famous Dave's hours of operation are Monday - Thursday 11 a.m. - 11 p.m., Friday and Saturday 11 a.m. - midnight and Sunday 11 a.m. - 10 p.m. Visa, Mastercard, American Express and Discover are accepted. The phone number is (732) 262-485.



"1997 HOT CONCEPT!"
Nation's Restaurant News

"BEST BBQ JOINT IN THE TWIN CITIES"
Mpls/St. Paul magazine

"BEST BBQ RIBS"
Minnesota Monthly Reader Poll

FAMOUS DAVE'S OF AMERICA, INC.

7657 ANAGRAM DRIVE • EDEN PRAIRIE, MINNESOTA 55344 • (952) 294-1300 • Fax (952) 294-1301

www.famousdaves.com

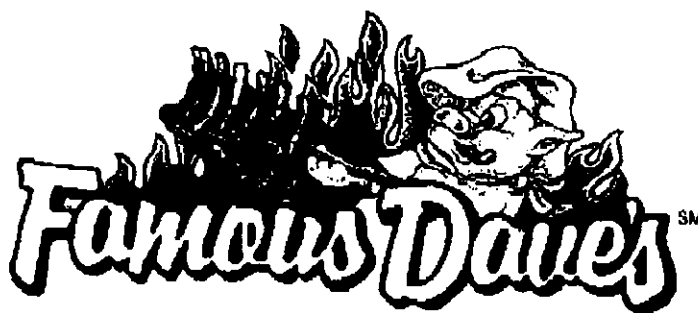
"Famous" Dave Anderson is a member of the Choctaw, Chippewa and Ojibwa Indian tribes and in celebration of his Native American heritage, he will continue his opening tradition with the "Passing of the Fire" ceremony. With each restaurant opening, a ceremonial fire that originally began at the first Famous Dave's Bar-B-Que in Hayward, Wisconsin, will be brought from the last opened restaurant and passed on to the newest location. The "Passing of the Fire" ceremony will take place at the restaurant during the official opening and ribbon cutting festivities with the Brick Chamber of Commerce, city officials and special guests on Monday, June 2nd at 10:45 a.m. As part of its opening celebration, Famous Dave's will host a rib-tasting in the parking lot of the restaurant on Saturday, May 24, 2003 from 12 p.m. - 2 p.m. Guests will enjoy a complimentary sample of Famous Dave's succulent ribs, delectable cornbread and a Coca-Cola beverage. This event is free and open to the public.

Having won awards for everything from best sauce to best ribs to best cookbook, Famous Dave's has received wide acclaim and praise from customers and critics alike. In previous years during rib competition season, the Famous Dave's Rib Team has won over 100 national and regional BBQ awards, including 1st place awards at the Great American Rib Cook-off in Ohio, the Sioux Empire Rib-fest in Sioux Falls, South Dakota, the Rib Fest & More in Fargo, North Dakota, the Pontiac Rib America Rib Fest in Pontiac, Michigan, the Twin Cities Rockin' Rib Fest in Minneapolis, Minnesota and the Rib America Indianapolis Rib Fest in Indianapolis, Indiana to name just a few.

Famous Dave's of America, Inc. (NASDAQ: DAVE) develops, owns, operates and franchises barbecue restaurants and blues clubs. The company currently owns 41 locations and franchises 36 additional units in various states. Its menu features award-winning, barbecued and grilled meats, an ample selection of salads, side items, sandwiches and unique desserts.

Certain matters discussed within this press release, including timing of the transaction, restaurant openings and expansion plans, may be forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Although Famous Dave's of America, Inc. believes the expectation reflected in any forward-looking statements are based on reasonable assumptions, it can give no assurance that its expectation will be attained. Factors that could cause actual results to differ materially from Famous Dave's expectation include availability of consents, financial performance, restaurant industry conditions, execution of restaurant development and construction programs, changes in local or national economic conditions, availability of financing and other risks detailed from time to time in the company's SEC reports.

###



FREE RIB TASTING

AT AWARD-WINNING FAMOUS DAVE'S BAR-B-QUE

IN THE BRICK AREA

- WHO:** Famous Dave's Bar-B-Que, voted number one in dozen's of rib competitions across the country, including the "Best Ribs in America" Award at the Great American Rib Cook-off and named the "Best Place To Take The Family" in 2002. Famous Dave's Bar-B-Que features lip-smackin' barbecue and award-winning recipes at 73 locations nationwide.
- WHAT:** Famous Dave's Bar-B-Que will host a free rib-tasting in the parking lot of the restaurant. Guests will enjoy a complimentary sample of Famous Dave's succulent ribs, delectable corn bread and a Coca-Cola beverage. This event is free and open to the public.
- WHERE:** Famous Dave's Bar-B-Que
950 Cedar Bridge Ave.
Brick, NJ 08723
(732)262.7485
- WHEN:** Saturday, May 24, 2003 from 12 p.m. - 2 p.m.

For media information, call:
Amy Ruffalo / Lissy Peace
(312)573.2070



"1997 HOT CONCEPT!"
Nations Restaurant News

"BEST BBQ JOINT IN THE TWIN CITIES"
Mpls/St. Paul magazine

"BEST BBQ RIBS"
Minnesota Monthly Reader Poll

FAMOUS DAVE'S OF AMERICA, INC.

7657 ANAGRAM DRIVE • EDEN PRAIRIE, MINNESOTA 55344 • (952) 294-1300 • FAX (952) 294-1301

www.famousdaves.com

DATE MAY 28, 2003PAY TO THE ORDER OF TOWNSHIP OF BRICK \$ 2,610.00
TWENTY-SIX HUNDRED AND TEN 00/100 DOLLARS 

Commerce

America's Most Convenient Bank®
1-800-YES-2000FOR AFFORDABLE HOUSINGTo: Scott M. Pezarras, Chief Financial Officer
From: Lisa Rose Tavalaccio, Office of Affordable Housing
Re: Affordable Housing FeesBusiness/Development: Famous DavesOwner/Applicant: N. Country BBQ VenturesProperty Address: 950 Cedar Bridge Ave. Bldg 4ABlock: 1070Lot: 9.02

DEPOSIT RECEIVED

Mandatory Development Fee

Commercial
Residential

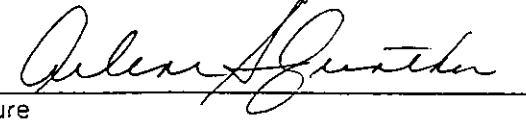
Inclusionary Development Fee

DATE: 5/30/03Check Number 1002Preliminary Fee Paid Final Fee Paid \$2610.00

FOR DEPOSIT ONLY - AFFORDABLE HOUSING TRUST ACCOUNT 36 367087

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:


Signature5/30/03
Date

OFFICE OF AFFORDABLE HOUSING

AHBT FINAL APPROVAL

AMONG THE APPROPRIATE

OFFICE OF AFFORDABLE HOUSING
CERTIFICATE OF COMPLIANCE

950 Cedar
Bridge

BLOCK 670 LOT 9.02 SITE ADDRESS 960 Cedar Bridge Ave. Bldg 4A
TYPE OF SITE Residential / Commercial NAME OF BUSINESS Famous Dawns
APPLICANT George Kline Construction PHONE NUMBER 732-935-1440
APPLICANT ADDRESS 442 Rt. 35 S. Bldg. A CITY & STATE Cattletown, NJ

INCLUSIONARY DEVELOPMENT

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

Bk 917-796-1156

I Buildings on pad 4
#4 + #4A
#4 will have 3 tenants
#4A - famous Dawns only.

MANDATORY DEVELOPER FEES

- ◇ Residential is .005 %
- ✗ Commercial is .01%
- ✗ The estimated equalized assessed value of the proposed construction is

\$ 522,000

Frederick R. Millman, CTA, Tax Assessor

8/7/02
Date

- ◇ The final equalized assessed value of the construction at the above referenced site is:

\$ 722,000

Frederick R. Millman, CTA, Tax Assessor

5/28/03
Date

Preliminary Fee Required 2610.00
Preliminary Paid 2610.00
Final Total Fee Required 5220.
Preliminary Paid 2610.00
Final Paid 2610.00
Balance Due - 0 -

Date 8/14/02
Check # 3082
Receipt # 1431
Date 5/29/03
Check# 1002
Receipt # 325002

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.

Frederick R. Millman
Office of Affordable Housing

7/30/02 - To prelim.
8/8/02 - mailed letter
5/28/03 - To final + called BOB

INSPECTOR: K Shafer

DATE: 6/6/03

JOB: Townhall
Shoppers
Asp# 11

SECTION: III
Bldg # 3 - #6

TYPE OF WORK: Final

LOCATION: Cedarbridge Ave

WEATHER: Sunny

TEMPERATURE: 70°

BLOCK: 670

LOT: 9,01-.04

**ENGINEERING RECOMMENDATIONS FOR
CERTIFICATE OF OCCUPANCY
INSPECTION CHECK LIST**

ITEMS TO BE COMPLETED	COMPLETED	DEFICIENT
1. Driveway	✓	
2. Grading	✓	
3. Sidewalk	✓	
4. Road Pavement	✓	
5. Landscaping & Sodding	✓	*
6. Clean-up Procedures	✓	
7. Note on going construction in immediate area	✓	
8. Safety	✓	

COMMENTS REFERENCING ITEM NUMBER: * Plantings to be done / beds are Muktul
OC soils Compliance issued,

RECOMMENDATIONS:

☐ TEMP. C.O.

☒ FINAL C.O.

☐ DETAILED REINSPECTION

☐ HOLD INSPECTION UNTIL LOT ELEVATION FIELD VERIFIED

[Signature]

PLANNING BOARD ENGINEER

[Signature]

MUNICIPAL ENGINEER

I _____, Authorized representative of
_____, hereby acknowledge the
above deficiencies, and further realize that the Certificate of Occupancy will be conditioned upon the acceptable resolution
thereof within _____ days of the issuance of Certificate of Occupancy.

1195 Route 70, Suite 2000
Lakewood, N.J. 08701
Phone: 732-886-1500 x 116
Fax: 732-942-3102

David M. Levy

Fax

To:	Donna - Construction Dept.	From:	Helen S. Lasky for David Levy
Fax:	732-262-8954	Date:	June 3, 2003
Phone:	732-262-1026	Pages:	2
Re:	Block 670, Lots 9.02 & 9.05	CC:	Gregg Sonnenfeld

☒ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

-Comments:

Attached is a Report of Compliance for pads 3 and 4a at the above referenced site. Please issue a Temporary C.O. for those two buildings and fax a copy to the above number as soon as possible. Please let me know if there are any other outstanding issues at these sites.

In addition, I had requested an extension to our existing Temporary C.O. for subway (pad 4) which I have not yet received.

Please call when you receive this fax.

Thank you,

*James Daves 02-3221
Bldg 4A*



OCEAN COUNTY SOIL CONSERVATION DISTRICT

714 LACEY ROAD, FORKED RIVER, N.J. 08731
(609) 971-7002 Fax (609) 971-3391

REPORT OF COMPLIANCE

TO: CONSTRUCTION CODE OFFICIAL MUNICIPALITY: BUCK
PROJECT: TOWN HALL SHOPS SCD NO.: 65710
BLOCK NO.(s) 670 LOT NO.(s) 9.02

Final Compliance ☒

Conditional Compliance ☐

Block No.	Lot No.	Conditions
		Block #3 + #4A ONLY!
		PROJECT COMPLETE
		6.3.03 Phil 135.- CK# 753 ☒
		TOTAL FEES DUE: \$ <u>135</u>

This verifies that the soil erosion and sediment control measures for the above designated block and lot numbers are in compliance to the extent indicated above with the soil erosion and sediment control plan as certified by the Ocean County Soil Conservation District and required by Chapter 251, P.L. 1975 as amended, the Soil Erosion and Sediment Control Act, (N.J.S.A. 4:24-39 et seq.).

AGENT RESPONSIBLE FOR PROJECT: _____

AUTHORIZED DISTRICT SIGNATURE: _____

DATE: 6/3/03

DISTRIBUTION:

WHITE - Township
CANARY - Applicant

6099713391 OCEAN COUNTY SOIL

141 P01 JUN 03 09:41

RALPH CLAYTON & SONS

READY-MIX CONCRETE

TOLL FREE 1-800-662-3044

732-363-1995

CAUTION!

UNHARDENED CONCRETE CAN CAUSE A SEVERE SKIN IRRITATION AND/OR BURNS ON SKIN. AVOID CONTACT WITH SKIN AND WASH EXPOSED SKIN AREAS PROMPTLY WITH WATER. WEAR RUBBER GLOVES, BOOTS, GLASSES AND PROTECTIVE CLOTHING.

NOTICE: THE STRENGTH OF CONCRETE DESCRIBED IS BASED UPON A SLUMP OF 3 TO 4 INCHES WHEN TESTED IN ACCORDANCE WITH ASTM C 94-58. THE CUSTOMER IS RESPONSIBLE FOR REQUIREMENTS OF ACI 305 AND 306.

THIS LOAD CONTAINS 370 GALS. OF WATER

THE UNDERSIGNED AUTHORIZES ADDITION OF 0 GALS. OF WATER & HEREBY ASSUMES RESPONSIBILITY FOR THE STRENGTH & DURABILITY OF THE CONCRETE.

SIGNED [Signature]

DATE

CUSTOMER NO

12:37 10-Feb-03

08739000

SOLD TO: STRAIGHT LINE CONTRACTORS LLC

BRICKTOWN

DELIVER TO: 960 CEDAR BRIDGE AV.

FOOTING

TICKET NO

FANCY DAVE'S

SOURCE	TRUCK	DRIVER	METHOD OF PAYMENT		PURCHASE ORDER NO.	
94	473	617				
QUANTITY	DESCRIPTION			U/M	PRICE	AMOUNT
10.00	3500 PSI CONCRET			CY		
10.00	28 NONREIN. REEL			CY		
10.00	FREIGHT CHARGE			CY		
	HEAT CHARGE					
	EXCESS TIME (SALES TAX INCLUDED)					
SIX MINUTES PER YARD UNLOADING TIME ALLOWED EXCESS TIME					TAX	
15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES			
\$17.50	\$35.00	\$52.50	\$70.00			
ARRIVE JOB	LEFT JOB	TIME	TOTAL YDS. TODAY	TOTAL →		
			30.00			

COMPANY NOT RESPONSIBLE FOR DAMAGE DONE WHEN OFF PUBLIC ROADS

AUTHORIZED & REC'D BY X

385170

DELIVERY RECEIPT

RALPH CLAYTON & SONS

READY-MIX CONCRETE

TOLL FREE 1-800-662-3044

732-363-1995

CAUTION!

UNHARDENED CONCRETE CAN CAUSE A SEVERE SKIN IRRITATION AND/OR BURNS ON SKIN. AVOID CONTACT WITH SKIN AND WASH EXPOSED SKIN AREAS PROMPTLY WITH WATER. WEAR RUBBER GLOVES, BOOTS, GLASSES AND PROTECTIVE CLOTHING.

NOTICE: THE STRENGTH OF CONCRETE DESCRIBED IS BASED UPON A SLUMP OF 3 TO 4 INCHES WHEN TESTED IN ACCORDANCE WITH ASTM C 94-58. THE CUSTOMER IS RESPONSIBLE FOR REQUIREMENTS OF ACI 305 AND 306.

THIS LOAD CONTAINS 60 GALS. OF WATER

THE UNDERSIGNED AUTHORIZES ADDITION OF GALS. OF WATER & HEREBY ASSUMES RESPONSIBILITY FOR THE STRENGTH & DURABILITY OF THE CONCRETE.

SIGNED

DATE

CUSTOMER NO

ORDER #112

13:37 10-Feb-03

08739000

SOLD TO: STRAIGHT LINE CONTRACTORS LLC
BRICKTOWN NJ

194083718

DELIVER TO: 20 CEDAR BRIDGE AV. FOOTING

TICKET NO

RAMON DAVE S

SOURCE	TRUCK	DRIVER	METHOD OF PAYMENT	PURCHASE ORDER NO.	
94	412	616			
QUANTITY	DESCRIPTION		U/M	PRICE	AMOUNT
2.50	3500 PSI CONCRETE		CY		
2.50	25 MPMHCL. AGGEL		CY		
2.50	FREIGHT CHARGE		CY		
	HEAT CHARGE				
	EXCESS TIME (SALES TAX INCLUDED)				
SIX MINUTES PER YARD UNLOADING TIME ALLOWED EXCESS TIME				TAX	
15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
\$17.50	\$35.00	\$52.50	\$70.00	TOTAL ➔	
ARRIVE JOB	LEFT JOB	TIME	TOTAL YDS. TODAY		
			32.50		

COMPANY NOT RESPONSIBLE FOR DAMAGE DONE WHEN OFF PUBLIC ROADS

AUTHORIZED & REC'D BY X

385172

DELIVERY RECEIPT

RALPH CLAYTON & SONS

READY-MIX CONCRETE

TOLL FREE 1-800-662-3044

732-363-1995

CAUTION!

UNHARDENED CONCRETE CAN CAUSE A SEVERE SKIN IRRITATION AND/OR BURNS ON SKIN. AVOID CONTACT WITH SKIN AND WASH EXPOSED SKIN AREAS PROMPTLY WITH WATER. WEAR RUBBER GLOVES, BOOTS, GLASSES AND PROTECTIVE CLOTHING.

NOTICE: THE STRENGTH OF CONCRETE DESCRIBED IS BASED UPON A SLUMP OF 3 TO 4 INCHES WHEN TESTED IN ACCORDANCE WITH ASTM C 94-58. THE CUSTOMER IS RESPONSIBLE FOR REQUIREMENTS OF ACI 305 AND 306.

THIS LOAD CONTAINS 275 GALS. OF WATER

THE UNDERSIGNED AUTHORIZES ADDITION OF 20 GALS. OF WATER & HEREBY ASSUMES RESPONSIBILITY FOR THE STRENGTH & DURABILITY OF THE CONCRETE.

SIGNED _____

DATE

CUSTOMER NO

ORDER 110

14:43 12-Feb-03

06739300

SOLD TO: STRAIGHT LINE CONTRACTORS, LLC
BRICKTOWN

DELIVER TO: 960 CEDAR BRIDGE AV.

WALL

TICKET NO

FAMOUS DAVE'S

SOURCE 91		TRUCK 965	DRIVER 653	METHOD OF PAYMENT	PURCHASE ORDER NO.		
QUANTITY		DESCRIPTION			U/M	PRICE	AMOUNT
10.00		3500 PSI CONCRET			CY		
10.00		2% NONCHL. ACCEL			CY		
10.00		FREIGHT CHARGE			CY		
		HEAT CHARGE					
		EXCESS TIME (SALES TAX INCLUDED)					
SIX MINUTES PER YARD UNLOADING TIME ALLOWED EXCESS TIME						TAX	
15 MINUTES		30 MINUTES	45 MINUTES	60 MINUTES			
\$17.50		\$35.00	\$52.50	\$70.00			
ARRIVE JOB		LEFT JOB	TIME	TOTAL YDS. TODAY	TOTAL →		
5:50		4:15		105.00			

COMPANY NOT RESPONSIBLE FOR DAMAGE DONE WHEN OFF PUBLIC ROADS

AUTHORIZED & REC'D BY X

385209

DELIVERY RECEIPT

RALPH CLAYTON & SONS

READY-MIX CONCRETE

TOLL FREE 1-800-662-3044

732-363-1995

CAUTION!

UNHARDENED CONCRETE CAN CAUSE A SEVERE SKIN IRRITATION AND/OR BURNS ON SKIN. AVOID CONTACT WITH SKIN AND WASH EXPOSED SKIN AREAS PROMPTLY WITH WATER. WEAR RUBBER GLOVES, BOOTS, GLASSES AND PROTECTIVE CLOTHING.

NOTICE: THE STRENGTH OF CONCRETE DESCRIBED IS BASED UPON A SLUMP OF 3 TO 4 INCHES WHEN TESTED IN ACCORDANCE WITH ASTM C 94-58. THE CUSTOMER IS RESPONSIBLE FOR REQUIREMENTS OF ACI 305 AND 306.

THIS LOAD CONTAINS 275 GALS. OF WATER

THE UNDERSIGNED AUTHORIZES ADDITION OF 25 GALS. OF WATER & HEREBY ASSUMES RESPONSIBILITY FOR THE STRENGTH & DURABILITY OF THE CONCRETE.

SIGNED M. M. M.

DATE

CUSTOMER NO

ORDER 110

14:52 12-Feb-00

08789300

SOLD TO: STRAIGHT LINE CONTRACTORS LLC
BRICKTOWN

94083786

DELIVER TO: 960 CEDAR BRIDGE AV. WALL

TICKET NO.

FANCUS DAVE'S

SOURCE	TRUCK	DRIVER	METHOD OF PAYMENT	PURCHASE ORDER NO.	
94	473	617			
QUANTITY	DESCRIPTION		U/M	PRICE	AMOUNT
10.00	3500 PSI CONCRET		CY		
10.00	2% NONCHL. ACCEL		CY		
10.00	FREIGHT CHARGE		CY		
	MENT CHARGE				
	EXCESS TIME (SALES TAX INCLUDED)				
SIX MINUTES PER YARD UNLOADING TIME ALLOWED EXCESS TIME				TAX	
15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
\$17.50	\$35.00	\$52.50	\$70.00	TOTAL →	
ARRIVE JOB	LEFT JOB	TIME	TOTAL YDS. TODAY		
3:40			20.00		

COMPANY NOT RESPONSIBLE FOR DAMAGE DONE WHEN OFF PUBLIC ROADS

AUTHORIZED & REC'D BY M. M. M.

385210

DELIVERY RECEIPT

CERTIFICATE OF APPROVAL FOR TENNANT FIT UP AND COMMERCIAL

Location 670 Cedar Bridge Ave Block 670 Lot 902

Final Inspections needed if applicable as follows:

1. Final Building
2. Final Plumbing
3. Final Electric
4. Final Fire
5. Certificate of Compliance BTMUA
6. Final Engineering
7. Ocean County Soil
8. Affordable Housing

Report of Compliance from Ocean County Soils needed when; more than 5000 sq ft are disturbed. NEW COMMERCIAL Building that have been approved by PLANNING BD or BD OF ADJUSTMENT always need soil report.

	FINALS	FINALS	FINALS
BUILDING.....	APPROVED	tech needs to be signed	viewed sticker 6/6/3
PLUMBING.....	APPROVED	6/5/3 OK	
FIRE.....	APPROVED	verbal from Kevin - need tech	6/6/3
ELECTRIC.....	APPROVED	6/3/3 OK	
ENGINEERING.....	APPROVED	6/6/3	
O.C.SOIL.....	APPROVED	6/3 OK	

COMMERCIAL OCCUPANCY CARD.....

C.C. FROM B.T.M.U.A. OK @ per patti
 CALL THE WATER CO. BTMUA 458-7000 EXT. 224 OR 225 ASK WHETHER A C.C. IS NEEDED.

ok -
 AFFORDABLE HOUSING.....
 ALL COMMERCIAL APPLICATIONS MUST BE REVIEWED BY AFFORDABLE HOUSING BEFORE A C/A OR C/O IS ISSUED. SECOND HALF OF PAYMENT IS DUE AT THIS TIME.

Famous Daves

32221

32221+A

Information Call:

No. 2267

32221+A
23221+A
23221+A
APPROVAL FOR ELECTRICAL

Date 4 F Inspector

Rough
Service
Other

Complete 6403 M

Form F-222A



TOWNSHIP OF BRICK

For Information Call: _____

Permit No. 02 3221

APPROVAL FOR BUILDING

Date _____ Inspector _____

☐ Foundation
☐ Framing
☐ Mechanical
☐ Electrical
☐ Other

☒ Final

6403 M

TOWNSHIP OF BRICK

Call: 223221 + F

APPROVAL FOR FIRE PROTECTION

Date Inspector

s _____

es _____

Supp. 6-6-03 KCB

cal _____

6-6-03 KCB

24A **PRO 117**

JOHN MATHIAS / OCC-6020

TOWNSHIP OF BRICK

For Information Call: _____

Permit No. 02 3221 + A

APPROVAL FOR PLUMBING

Date Inspector

☐ Slab
☐ Rough
☐ Water
☐ Gas
☐ Mechanical
☐ Other

☒ Final

6-5-03 [Signature]

U.C.C. Form F-223 A



The Roberts Group, PSC

239 Southland Dr., Suite C, Lexington, KY 40503
PH: (859) 276-2006 Fax: (859) 276-2901

TRG Project No: 01267

Date June 4, 2003

Number of pages including cover sheet

6

Facsimile Letter

TO: Mr. Kevin C. Batzel, Bureau
Chief/Fire Subcode Official
Township Building Department
401 Chambers Bridge Road
Brick, NJ 08723

Phone: (732) 262-1035

Fax Phone: (732) 262-8954

RE: Famous Dave's Restaurant,
Brick, NJ

FROM: Janet L. Pugh
The Roberts Group, P.S.C.
239C Southland Drive
Lexington, KY 40503

E-mail jpugh@trgpsc.com

Phone (859) 276-2006

Fax Phone (859) 276-2901

REMARKS:

☐ For approval	☒ For your use	☐ Reply ASAP	☐ Shop Drawings	☐ As requested
☐ For review and comment	☐ Approved as submitted	☐ Returned for corrections	☐ Approved as noted	☐ Please Comment

Dear Sir,

Per your request for information, I have provided the following:

Item 1: Occupant load

The following list is a breakdown of the occupant load for the various rooms for this project that have been calculated based upon actual seats provided:

BAR/BAR DINING: 37 seats (loose tables and bar stools)

CABIN DINING: 32 seats (one H.C. accessible table provided)

GRAND HALL DINING: 68 seats (two H.C. accessible tables provided)

DAVE'S OUTFITTERS DINING: 44 seats (two H.C. accessible tables provided)

TOTAL BAR AND DINING: 181 seats provided

BAR: 49 sf @ 3 sf/person = 16 persons (standing area behind bar stools)

TOTAL BAR STANDING: 16 persons

The following list is a breakdown of the occupant load for the various rooms for this project that have been calculated based upon the square foot area calculations for this project. This calculation was used to determine also the required plumbing fixtures for the project.

1,857 S.F. OF KITCHEN AREA @ 100 SF/PERSON = 18.5 PERSONS = 19 persons

245 S.F. OF WAITING AREA @ 3 SF/PERSON = 81.6 PERSONS = 82 persons
2,423 S.F. OF DINING AND BAR AREA @ 15 SF/PERSON = 162 PERSONS = 162 persons
TOTAL OCCUPANT LOAD BY AREA CALCULATION: 263 persons

Item 2: Flame spread rating at the entry vestibule.

At this time the flame spread rating and the smoke developed index for the wall material for the entry vestibule provides a Class "C" rating.

I have included here product information for a fire retardant coating, that can be purchased thru Sherwin Williams, that is a two step process consisting of a base coat and an overcoat which provides for a Class "B" rating. As I mentioned in our phone conversation, we are in the process of purchasing this product which may take one or two days to acquire but will be applied as soon as possible.

I am hopeful that I have provided the information you have requested and that this will allow you to complete your review and issue a certificate of occupancy.

If you have any questions regarding this transmittal, please call me.

Thank you for your time and help with our project.

Sincerely,

Janet L. Pugh, Architect

Cc: Bob Fanelli

Bill Caracciolo



The Roberts Group, PSC

239 Southland Dr., Suite C, Lexington, KY 40503
PH: (859) 276-2006 Fax: (859) 276-2901

Facsimile Letter

TRG Project No: 01267

Date May 27, 2003

Number of pages including cover sheet **3**

TO: Mr. Kevin C. Batzel, Bureau
Chief/Fire Subcode Official
Township Building Department
401 Chambers Bridge Road
Brick, NJ 08723

Phone: (732) 262-1035

Fax Phone:

RE: Famous Dave's Restaurant,
Brick, NJ

FROM: Janet L. Pugh
The Roberts Group, P.S.C.
239C Southland Drive
Lexington, KY 40503

E-mail jpugh@trgpsc.com

Phone (859) 276-2006

Fax Phone (859) 276-2901

REMARKS: ☐ For approval ☒ For your use ☐ Reply ASAP ☐ Shop Drawings ☐ As requested
☐ For review and comment ☐ Approved as submitted ☐ Returned for corrections ☐ Approved as noted ☐ Please Comment

Dear Sir,

Attached with this transmittal is a copy of the flame spread ratings and smoke developed index compiled by the Western Woods Products Association for various species of wood and wood products. I have provided this as a reference for you use and have highlighted several items that we have used in our project. These items include, log trim, cedar board siding, crown and base, plywood beadboard and pine plank siding and ceiling materials. As you can see all of the items indicated have a flame spread rating of class "C" or better.

Hopefully, this information will be useful to you and allow you to continue with your project inspections. If you have any questions regarding this transmittal, please call me.

Thank you for your time and help with our project.

Sincerely,

Janet L. Pugh, Architect

specific flame-spread reduction indices or contact the National Paint & Coating Association (www.paint.org).

Additional Information

Technical information on Western lumber products manufactured by WWPA mills is available on the Internet in the Association's Online Technical Guide at www.wwpa.org/techguide. The Online Guide features sections on lumber grades, design values, specifications, special products and properties of Western lumber.

A list of WWPA producing mills is available on the web site in the Online Lumber Buyers Guide at: www.wwpa.org/members.asp. For a full description of technical publications available for purchase and a printable order form, go to the WWPA site at www.wwpa.org/publist.htm.

You also can receive an order form via fax through the WWPA Fax Delivery Service by calling 732-544-2876 and following the instructions.

TABLE B

Other Wood Products	Flame-Spread Rating	Flame-Spread Class	Smoke-Developed Index	Source
Redwood	70	B	75-115	UL
Elm	75	C	-	HPVA
White Oak 3/4"	77	C	-	HPVA
Red Oak 3/4"	84	C	-	HPVA
* Eastern White Pine	85	C	122	CWC
* Redwood 3/8" Plywood	95	C	1-5	UL
* SYP 3/8" Plywood	100-105	C	85	APA
Yellow Birch	105-110	C	-	UL
Birch Plywood 1/4"	127	C	-	HPVA
Walnut 3/4"	101	C	-	HPVA
* Southern Yellow Pine	130-195	C	-	UL
Red Pine	142	C	229	CWC
Oak 1/2" Plywood	153	C	-	HPVA
Poplar	170-185	C	-	UL

Factory-Applied Finish

Particleboard	100-180	C	-	HPVA
MDF	121-167	C	-	HPVA
Hardboard	148-166	C	-	HPVA
Hardwood Plywood	99-191	C	-	HPVA
Softwood Plywood	110-140	C	-	CWC, APA
OSB	150-155	C	-	APA

Source for Other Wood Products and Factory Applied Finish flame-spread ratings is provided in AF&PA's Design for Code Acceptance, www.awc.org/dca/dca111.html.

Smoke-developed indices were not measured for all species and products.

Flame-spread ratings and smoke-developed indices sources:

- APA: APA-The Engineered Wood Association.
- CWC: Canadian Wood Council.
- CRA: California Redwood Association.
- HPVA: Hardwood Plywood & Veneer Association.
- UL: Underwriters' Laboratory, Inc.

Flame-spread ratings for factory-applied finish products are based on range of indices for different product thicknesses.



**Western Wood
Products Association**
522 SW Fifth Avenue, Suite 500
Portland, Oregon 97204-2122

tel: 503-224-3930
fax: 503-224-3934
e-mail: info@wwpa.org
web: www.wwpa.org

FLAME-SPREAD RATINGS & SMOKE-DEVELOPED INDICES: CONFORMANCE WITH MODEL BUILDING CODES

Western softwood products used as interior finishes on walls and ceilings are required to have assigned flame-spread ratings meeting fire safety regulations in building codes. Western lumber species are well suited for these interior finish applications and often outperform other species and wood-based products in fire safety ratings.

Western species tested for flame-spread have earned ratings favorable for applications requiring low flame-spread ratings. All tested Western species fall into Class B (or II) or Class C (or III) classifications, as shown in Table A. The low ratings for Western species provide an advantage over other species and wood products used in the same applications. (See Table B for other species and products.)

Flame-spread classifications, developed by Underwriters' Laboratories, Inc., are used in the National Fire Protection Association Life Safety Code, NFPA 101. The numerical scale for flame spread in the fire codes is based on a noncombustible cement board as 0 (zero) and combustible red oak as 100.

The smoke-developed indices are a relative measure of the amount of visible smoke created when a substance burns. This is a visual measurement, different from smoke toxicity, but recognized by the codes as a life safety issue. The numerical scale for smoke-developed values is also based on 0 for noncombustible cement board and 100 for red oak.

ASTM E-84, *Standard Test Method for Surface Burning Characteristics of Building Materials*, was developed to rate building products for flame-spread characteristics. The Steiner Tunnel Test (ASTM E-84) is used to develop the actual burning and flame-spread data.

TABLE A

Western Softwoods	Flame-Spread Rating	Flame-Spread Class	Smoke-Developed Index	Source
Western Larch	45	B	20	HPVA
Engelmann Spruce	55	B	35	HPVA
Hem-Fir ¹	60	B	70	HPVA
White Fir	65	B	55	HPVA
Pacific Silver Fir	69	B	58	CWC
Western Red Cedar	69	B	37	W
West Coast Hemlock	73	B	80	W
Sitka Spruce	74	B	74	CWC
*Idaho White Pine	82	C	83	W
Douglas Fir	90	C	70	W
Sugar Pine	95	C	80	HPVA
Lodgepole Pine	98	C	80	W
Ponderosa Pine	115	C	135	HPVA

W Weyerhaeuser Fire Technology Unit, 1997, sponsored by Council of Forest Industries.

W Weyerhaeuser Fire Technology Unit, 1998.

HPVA Hardwood Plywood & Veneer Association, 1985, 2000, 2001.

CWC "Wood and Fire Safety" by the Canadian Wood Council, 1991.

¹ The Hem-Fir species group for Western softwoods is comprised of Western hemlock (*Tsuga heterophylla*), Pacific silver fir (*Abies amabilis*), White fir (*Abies concolor*), California red fir (*Abies magnifica*), Noble fir (*Abies procera*), and Grand fir (*Abies grandis*). When lumber is from a single species, refer to the specific species index.

Code Requirements

The most widely accepted flame-spread classification system appears in the National Fire Protection Association Life Safety Code, NFPA 101. The International Building Code, Section 803, lists the following classification rating ranges:

0-25 flame-spread—Class A (or I)
26-75 flame-spread—Class B (or II)
76-200 flame-spread—Class C (or III)

Example Building Locations:

Enclosed vertical exits
Exit access corridors
Other rooms and areas

The model building codes require a smoke-developed index of 450 or less for most construction applications.

Designers should consult their locally applicable codes for flame-spread and smoke-developed requirements for specific use, areas and occupancies. When a species does not carry a flame-spread classification appropriate to a desired application, designers may be able to use an intumescent finish or fire-retardant treatment to improve the flame-spread classification and satisfy local building codes.

Fire Retardant Coatings

Flame-spread indices may be reduced through applications of fire-retardant coatings. The effectiveness and degree of surface flammability reduction varies. Please refer to the finish/coating proprietor for



LOCKRITE SECURITY SYSTEMS
ONE CODDINGTON AVE.
NORTH PLAINFIELD, NJ 07060
(908) 412-0700 FAX (908) 412-1270

FAXED
6/4/03

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
Data Entry	Sid Hall
COMPANY:	DATE:
Affiliated Central	6/4/2003
FAX NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER:
(877) 720-6717	1
PHONE NUMBER:	SENDER'S REFERENCE NUMBER:
(800) 434-4000	Dealer 31-0215
Re:	PAGES
241-9263 - Famous Dave's BBQ	1 (including cover page)

X URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

Please change the descriptions for the following Zones.

Zone 20 - Trouble - RTU Cabin Dining Duct
Zone 21 - Trouble - Cabin Dining Duct
Zone 22 - Trouble - To Go/Bar Duct
Zone 23 - Trouble - Outfitters Duct
Zone 24 - Trouble - Kitchen Area

Any questions, please call,

Thanks, Sid

FUNDAMENTALS OF FIRE ALARM SYSTEMS

72-31

FIRE ALARM SYSTEM
RECORD OF COMPLETION

Name of protected property: NORTH COUNTRY BBQ DBA FAMOUS DAVES
 Address: 950 CEDAR BRIDGE AVE BRICK NJ 08723
 Representative of protected property (name/phone): _____
 Authority having jurisdiction: _____
 Address/telephone number: _____

Organization name/phone _____ Representative name/phone _____
 Installer: LOCKRITE SECURITY SYSTEMS
 Supplier: ADI
 Service organization: LOCKRITE SECURITY SYSTEMS
 Location of record (as-built) drawings: INSIDE ALARM PANEL
 Location of operation and maintenance manuals: MANAGERS OFFICE
 Location of test reports: MANAGERS OFFICE
 A contract for test and inspection in accordance with NFPA standard(s): _____
 Contract No(s): 241 9263 Effective date: 6-4-03 Expiration date: _____

System Software

(a) Operating system (executive) software revision level(s): ADENCO 128FB
 (b) Site-specific software revision date: _____
 (c) Revision completed by: _____ (name) _____ (firm)

1. Type(s) of System or Service

____ NFPA 72, Chapter 6 — Local
 If alarm is transmitted to location(s) off premises, list where received: AFFILIATED CENTRAL STATION

____ NFPA 72, Chapter 8 — Remote Station
 Telephone numbers of the organization receiving alarm:
 Alarm: 1-800-434-4000
 Supervisory: _____
 Trouble: _____
 If alarms are retransmitted to public fire service communications centers or others, indicate location and telephone numbers of the organization receiving alarm: _____

Indicate how alarm is retransmitted: _____

____ NFPA 72, Chapter 8 — Proprietary
 Telephone numbers of the organization receiving alarm:
 Alarm: _____
 Supervisory: _____
 Trouble: _____
 If alarms are retransmitted to public fire service communications centers or others, indicate location and telephone numbers of the organization receiving alarm: _____

Indicate how alarm is retransmitted: _____

____ NFPA 72, Chapter 8 — Central Station
 Prime contractor: AFFILIATED CENTRAL STATION
 Central station location: NEW YORK

(NFPA 72, 1.6.4)

FIGURE 4.5.2.1 Record of Completion.

72-32

NATIONAL FIREALARM CODE

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) CENTRAL STATION

(b) CENTRAL STATION

System location: _____

☐ NFPA 72, Chapter 9 — Auxiliary

Indicate type of connection: ☐ Local energy ☐ Shunt ☐ Parallel telephone

Location of telephone number for receipt of signals: _____

2. Record of System Installation

(Fill out after installation is complete and wiring is 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 in 5 and 6, and has been in service since _____.

☐ NFPA 72, Chapters 1 2 3 4 5 6 7 8 9 10 11 (circle all that apply)

☐ NFPA 70, National Electrical Code, Article 760

☒ Manufacturer's instructions

☐ Other (specify): _____

Signed: A. Blair Date: 6-4-03

Organization: LOCKRITE SECURITY

3. Record of System Operation

Documentation in accordance with Inspection Testing Form, Figure 10.6.2.3, is attached 6-4-03.

All operational features and functions of this system were tested by ROUNBLAIR date 6-4-03 and found to be operating properly in accordance with the requirements of:

☐ NFPA 72, Chapters 1 2 3 4 5 6 7 8 9 10 11 (circle all that apply)

☐ NFPA 70, National Electrical Code, Article 760

☒ Manufacturer's instructions

☐ Other (specify): _____

Signed: A. Blair Date: 6-4-03

Organization: LOCKRITE SECURITY SYSTEMS

4. Signaling Line Circuits

Quantity and class of signaling line circuits connected to system (see NFPA 72, Table 6.6.1):

Quantity: 2 Style: B Class: _____

(NFPA 72, 2 of 4)

FIGURE 4.5.2.1 Continued

FUNDAMENTALS OF FIRE ALARM SYSTEMS

72-33

5. Alarm-Initiating Devices and Circuits

Quantity and class of initiating device circuits (see NFPA 72, Table 6.5):

Quantity: 7 Style: B Class: _____**MANUAL**(a) Manual stations Noncoded _____ Transmitters _____ Coded _____ Addressable 5

(b) Combination manual fire alarm and guard's tour coded stations _____

AUTOMATICCoverage: Complete _____ Partial _____
Selective _____ Nonrequired _____

(a) Smoke detectors _____ Ion _____ Photo _____ Addressable _____

(b) Duct detectors 5 Ion _____ Photo ✓ Addressable ✓

(c) Heat detectors _____ FT _____ RR _____ FT/RR _____ RC _____ Addressable _____

(d) Sprinkler waterflow indicators: Transmitters _____ Noncoded _____ Coded _____ Addressable _____

(e) The alarm verification feature is disabled _____ or enabled _____, changed from _____ seconds to _____ seconds.

(f) Other (list): ANSOL 2**6. Supervisory Signal-Initiating Devices and Circuits (use blanks to indicate quantity of devices)****GUARD'S TOUR**

(a) _____ Coded stations

(b) _____ Noncoded stations

(c) _____ Compulsory guard's tour system comprised of _____ transmitter stations and intermediate stations

Note: Combination devices are recorded under 5(b), Manual, and 6(a), Guard's Tour.

SPRINKLER SYSTEM

Check if provided

(a) _____ Valve supervisory switches

(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:

(a) _____ Selector in auto position

(b) _____ Control panel trouble

(c) _____ Transfer switches

(d) _____ Engine running

Other supervisory function(s) (specify): _____

(NFPA 72, 3 of 4)

FIGURE 4.5.2.1 *Continued*

72-34

NATIONAL FIRE ALARM CODE

7. Annunciator(s)		
Number: <u>1</u>	Type: <u>REMOTE KEYPAD</u>	Location: <u>FRONT DOOR</u>
8. Alarm Notification Appliances and Circuits		
NFPA 72, Chapter 6 — 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: _____		
Quantity and the class of notification appliance circuits connected to system (see NFPA 72, Table 6.7):		
Quantity: _____	Style: _____	Class: _____
Types and quantities of notification appliances installed:		
(a) Bells _____	With Visible _____	
(b) Speakers _____	With Visible _____	
(c) Horns <u>9 8 8</u>	With Visible <u>9</u>	
(d) Chimes _____	With Visible _____	
(e) Other: _____	With Visible _____	
(f) Visible appliances without audible: _____	<u>2</u>	
9. System Power Supplies		
(a) Fire Alarm Control Panel:	Nominal voltage: <u>120 VAC</u>	Current rating: <u>5</u>
Overcurrent protection:	Type: <u>CIRCUIT BREAKER</u>	Current rating: <u>20</u>
	Location: <u>PANEL ROOM #17</u>	
(b) Secondary (standby):		
Storage battery: <u>12 VDC</u>	Amp-hour rating: <u>14</u>	
Calculated capacity to drive system, in hours: <u>24</u>		
Engine-driven generator dedicated to fire alarm system: _____		
Location of fuel storage: _____		
(c) Emergency system used as backup to primary power supply: _____		
Emergency system described in NFPA 70, Article 700: _____		
10. Comments		
Frequency of routine tests and inspections, if other than in accordance with the referenced NFPA standard(s): <u>ANNUAL</u>		
System deviations from the referenced NFPA standard(s) are: _____		

(signed) for installation contractor/supplier	VP	6-4-03
(title)	(date)	
(signed) for alarm service company	VP	6-4-03
(title)	(date)	
(signed) for central station	VP	6-4-03
(title)	(date)	
Upon completion of the system(s) satisfactory test(s) witnessed (if required by the authority having jurisdiction):		
<u>Francisco J. Castro</u>	<u>GENERAL MANAGER</u>	<u>6-4-03</u>
(signed) representative of the authority having jurisdiction	(title)	(date)

(NFPA 72, 4 of 4)

FIGURE 4.5.2.1 Continued

Rcvr-Acct#: 241 - 9263

Date: June 4, 2003 11:15 AM

Name: Brick Famous Daves

Business: Fanous Daves

ZONE ASSIGNMENT/ALARM REPORT CODES

ZONE NUMBER (Zn)	ZONE TYPE (ZT)	ZONE ALPHA	ALARM RPT CODE HEX (RC)	PRTN #	INPUT DEVICE (IN)	LOOP NUMBER	SERIAL NUMBER	SMART DEVICE	BELL 1, 2 AUX RELAY	VPLEX DEVICE	ACCESS POINT	ENTRY EXIT	ACCESS ID/ECP
1	4	OFFICE MOTION DETECTOR		1	1	1	-	0	Auxiliary	-	-	--	--
2	19	ZN 002 METHANE HIGH	1	1	1	1	-	0	-	-	-	--	--
3	19	ZN 003 METHANE LOW	1	1	1	1	-	0	-	-	-	--	--
4	-	ZN 004	-	-	-	-	-	0	-	-	-	--	--
5	-	ZN 005	-	-	-	-	-	0	-	-	-	--	--
6	-	ZN 006	-	-	-	-	-	0	-	-	-	--	--
7	-	ZN 007	-	-	-	-	-	0	-	-	-	--	--
8	-	ZN 008	-	-	-	-	-	0	-	-	-	--	--
9	-	ZN 009	-	-	-	-	-	0	-	-	-	--	--
10	1	FRONT DOOR	A	1	6	2	065-3535	0	Auxiliary	-	0	--	--
11	3	ZN 011 TAKE OUT DOORS		1	6	2	057-8495	0	Auxiliary	-	0	--	--
12	3	ZN 012 SIDE DOOR	C	1	6	2	056-5109	0	Auxiliary	-	0	--	--
13	3	ZN 013 KITCHEN DOOR	D	1	6	2	041-2927	0	Auxiliary	-	0	--	--
14	3	DOOR UTILITY ROOM	E	1	6	2	077-5503	0	Auxiliary	-	0	--	--
15	9	FRONT DOOR PULL STA F		1	6	1	055-3535	0	Bell 1 and 2	-	0	--	--
16	9	ZN 016 TAKE OUT PULL STA		1	6	1	057-6495	0	Bell 1 and 2	-	0	--	--
17	9	SIDE DOOR PULL STA	2	1	6	1	066-5109	0	Bell 1 and 2	-	0	--	--
18	9	ZN 018 KITCHEN PULL STA		1	6	1	041-2927	0	Bell 1 and 2	-	0	--	--
19	9	ZN 019 UTILITY PULL STA		1	6	1	077-5037	0	Bell 1 and 2	-	0	--	--
20	19	RTU CABIN DINING	5	1	6	1	086-4623	0	-	-	0	--	--
21	19	CABIN DINING DUCT	6	1	6	1	058-8789	0	-	-	0	--	--
22	19	TO GO BAR DUCT	7	1	6	1	004-4101	0	-	-	0	--	--
23	19	OUT FITTERS DUCT DET B		1	6	1	067-9375	0	-	-	0	--	--
24	19	ZN 024 KITCHEN DUCT DET		1	6	1	011-5077	0	-	-	0	--	--
25	9	FRONT ANSOL SYSTEM A		1	6	1	068-5965	0	Bell 1 and 2	-	0	--	--
26	9	REAR ANSOL SYSTEM B		1	6	1	089-7903	0	Bell 1 and 2	-	0	--	--
27	-	ZN 027	-	-	-	-	-	0	-	-	-	--	--
28	-	ZN 028	-	-	-	-	-	0	-	-	-	--	--
29	-	ZN 029	-	-	-	-	-	0	-	-	-	--	--
30	-	ZN 030	-	-	-	-	-	0	-	-	-	--	--
31	-	ZN 031	-	-	-	-	-	0	-	-	-	--	--
32	-	ZN 032	-	-	-	-	-	0	-	-	-	--	--
33	-	ZN 033	-	-	-	-	-	0	-	-	-	--	--
34	-	ZN 034	-	-	-	-	-	0	-	-	-	--	--
35	-	ZN 035	-	-	-	-	-	0	-	-	-	--	--
36	-	ZN 036	-	-	-	-	-	0	-	-	-	--	--
37	-	ZN 037	-	-	-	-	-	0	-	-	-	--	--
38	-	ZN 038	-	-	-	-	-	0	-	-	-	--	--
39	-	ZN 039	-	-	-	-	-	0	-	-	-	--	--
40	-	ZN 040	-	-	-	-	-	0	-	-	-	--	--
41	-	ZN 041	-	-	-	-	-	0	-	-	-	--	--
42	-	ZN 042	-	-	-	-	-	0	-	-	-	--	--
43	-	ZN 043	-	-	-	-	-	0	-	-	-	--	--
44	-	ZN 044	-	-	-	-	-	0	-	-	-	--	--
45	-	ZN 045	-	-	-	-	-	0	-	-	-	--	--
46	-	ZN 046	-	-	-	-	-	0	-	-	-	--	--
47	-	ZN 047	-	-	-	-	-	0	-	-	-	--	--
48	-	ZN 048	-	-	-	-	-	0	-	-	-	--	--
49	-	ZN 049	-	-	-	-	-	0	-	-	-	--	--
50	-	ZN 050	-	-	-	-	-	0	-	-	-	--	--
51	-	ZN 051	-	-	-	-	-	0	-	-	-	--	--

Jun 04 03 11:17a

LOCKRITE SECURITY
OFFSHORE CENTRAL, INC.

19084121270

P.10
PAGE 2

DETAILED ACCOUNT ACTIVITY PRINTOUT(222)

INSI 0 TO 999999999 ACCTS 2419263 10 2419263 06/04/03 THROUGH 06/04/03

EVT DATE	EVT TIME	OPER	EVENT/COMMENT
06/04/03	10:21:30		COMMENT: PHN1:917-798-1156
06/04/03	10:21:30		COMMENT: EXT1:CELL
06/04/03	10:21:30		COMMENT: TYPE:C
06/04/03	10:21:30		COMMENT: PD: 31088
06/04/03	10:21:30		COMMENT: FD: 31086
06/04/03	10:21:30		COMMENT: CLOC:13
06/04/03	10:21:30		COMMENT: MD: 31098
06/04/03	10:21:30	A06	4971 ACCOUNT CHANGED
06/04/03	10:21:39		COMMENT: SQ#10 ALL USERS
06/04/03	10:21:39	A06	4981 PASSCARD ADDED
06/04/03	10:22:07		COMMENT: SQ#130 CHUCK CONNOR
06/04/03	10:22:09	A06	4981 PASSCARD ADDED
06/04/03	10:22:34		COMMENT: SQ#140 CISCO CASTRO
06/04/03	10:22:34	A06	4981 PASSCARD ADDED
06/04/03	10:23:50		COMMENT: SQ#150 ANTHONY HARGEN
06/04/03	10:23:50	A06	4981 PASSCARD ADDED
06/04/03	10:24:11		COMMENT: SQ#160 BRIAN LANGHAM
06/04/03	10:24:11	A06	4981 PASSCARD ADDED
06/04/03	10:24:22		COMMENT: PERM PG 99
06/04/03	10:24:22	A06	4984 ZONE DTSP ADDED
06/04/03	10:26:13		COMMENT: ZONE PAGE# 1
06/04/03	10:26:13	A06	4972 ZONE ADDED
06/04/03	10:26:41	24	7360 CONTACT TROUBLE *T E380 E24
06/04/03	10:27:17		COMMENT: ZONE PAGE# 2
06/04/03	10:27:17	A06	4972 ZONE ADDED
06/04/03	10:28:00		COMMENT: STYP:CCIF
06/04/03	10:28:00	A06	4971 ACCOUNT CHANGED
06/04/03	10:28:11		COMMENT: ZONE PAGE# 1
06/04/03	10:28:11	A06	4974 ZONE DELETED
06/04/03	10:28:13		COMMENT: ZONE PAGE# 1
06/04/03	10:28:13	A06	4974 ZONE DELETED
06/04/03	10:29:27		COMMENT: 12 380 P45 0
06/04/03	10:29:27	A06	4972 ZONE ADDED
06/04/03	10:29:27		COMMENT: 11 380 P45 0
06/04/03	10:29:27	A06	4972 ZONE ADDED
06/04/03	10:29:27		COMMENT: 10 380 P45 0
06/04/03	10:29:27	A06	4972 ZONE ADDED
06/04/03	10:29:27		COMMENT: 3 1730 LB 0
06/04/03	10:29:28	A06	4972 ZONE ADDED
06/04/03	10:29:28		COMMENT: 2 1730 LB 0
06/04/03	10:29:28	A06	4972 ZONE ADDED
06/04/03	10:29:28		COMMENT: 1 380 P45 0
06/04/03	10:29:28	A06	4972 ZONE ADDED
06/04/03	10:31:38	E110	7110 FIRE *T E110 E25
06/04/03	10:32:14		COMMENT: ZONE PAGE# 11
06/04/03	10:32:15	A06	4972 ZONE ADDED
06/04/03	10:32:27		COMMENT: C 39
06/04/03	10:32:27	A06	4972 ZONE ADDED
06/04/03	10:32:27		COMMENT: U 38

DETAILED ACCOUNT ACTIVITY PRINTOUT(222)

INST

0 10 999999999 ACCT 2410263 TO 2419263 06/04/03 THROUGH 06/04/03

EVT DATE	EVT TIME	OPER	EVENT/COMMENT
06/04/03	10:32:27	A06	4972 ZONE ADDED
06/04/03	10:32:35		COMMENT: HFAQ:S
06/04/03	10:32:39	A06	4971 ACCOUNT CHANGED
06/04/03	10:33:03		COMMENT: SEQ#1
06/04/03	10:33:00	A06	4993 MAIL-TO ADDED
06/04/03	10:33:05		COMMENT: PATI: 24
06/04/03	10:33:05	A06	4971 ACCOUNT CHANGED
06/04/03	10:33:24		COMMENT: EXP: 6/05 10:33 EN: 1:00 LA: 0:30 AS: 20
06/04/03	10:33:24	A06	4820 NEXT AT1 PRIMARY
06/04/03	10:33:34		COMMENT: E602 20
06/04/03	10:33:34	A06	4972 ZONE ADDED
06/04/03	10:33:37		COMMENT: STFP:
06/04/03	10:33:37	A06	4971 ACCOUNT CHANGED
06/04/03	10:33:44		COMMENT: Attn: FAX CHANGES TO AC
06/04/03	10:33:44	A05	4959 CFA FAXBACK REQ FAX CHANGES TO AC
06/04/03	10:36:00	FAX	3851 FAX/E-MAIL SUCCESSFUL *T
06/04/03	10:39:16	17	1310 FIRE-PULL STATION *T E110 E17 SD OR
06/04/03	10:39:52	16	1310 FIRE-PULL STATION *T E110 E16 TAKE OUT OR
06/04/03	11:17:03	25	1300 FIRE *T E110 E25 FI ANSEL SYSTEM
06/04/03	11:17:05	E411	7411 C/B REQUEST MADE *T E411 U0
06/04/03	11:23:30	26	1300 FIRE *T E110 E26 RR ANSEL SYSTEM
06/04/03	11:51:47	G05	4055 INSTALLER CALLED IN SID HALL
06/04/03	11:51:47		COMMENT: G05:FAX TEST RESULTS TO AC
06/04/03	11:54:37		COMMENT: Attn: INSTALLER FAX
06/04/03	11:54:37	G05	4951 ACCT ACTIVITY FAX REQ INSTALLER FAX

END OF REPORT

SECTION 10523
PORTABLE FIRE EXTINGUISHERS

PART I - GENERAL

1.01 SECTION INCLUDES

- A. Fire extinguishers
- B. Mounting brackets

1.02 SUBMITTALS

- A. Submit per SUBMITTALS Section.
- B. Prepare and submit product data sheets for acceptance.
- C. Provide new portable fire extinguishers, which are UL listed and bear UL "Listing Mark" for type, rating, and classification of extinguisher indicated.

PART II - PRODUCTS

2.01 MANUFACTURER

- A. The drawings were prepared and this specification written on the basis of using the product and the specifications of the J. L. Industries Division, J. N. Johnson Co., Inc. Minneapolis, Minnesota. It is not the intent to limit competitive bidding. Products with equal characteristics by other manufacturers are acceptable under the conditions of these specifications.

2.02 MATERIALS

- A. Dining Area Fire Extinguishers: Provide a minimum of four, equal to J.L. Industries "Cosmic A" Series Model 10E, wall-mounted 10 lb. capacity with nozzle. Fire extinguishers shall be a multi-purpose dry chemical type, enameled, metal containers with pressure indicated gauges, for Class A, B, and C fires. Approved equal fire extinguisher as manufactured by Larsen's Manufacturing Co., or Muckle Manufacturing Co. shall also be acceptable for use on this project.
- B. Kitchen Area Fire Extinguishers: Provide a minimum of two, equal to J.L. Industries "Galaxy Series - Model 6" wall-mounted, dry chemical type 40 BC UL rated, 6 lb. capacity fire extinguishers with pressure gauge.
- C. Brackets: Equal to J.L. Industries "Mark Brackets, Model No. MB846" complete with required anchors, of required size for Model 10E fire extinguisher and "Mark Brackets, Model MB808" for Model 6 fire extinguisher.
- D. Anchors: Non-corrosive types as required by wall conditions.

PART III - EXECUTION

3.01 INSTALLATION

- A. Mount on walls in strict conformance with manufacturer's instructions, in locations directed by local Fire Marshall.

END OF SECTION

Cisco

Famous Daves
Block: 670 Lot:9.02
960 Cedar Bridge Avenue, Bldg. 4-A
Permit # 03-2207, 02-3221+C

Items to be Completed

June 2, 2003

Fire Alarm System.

- OK ✓
6-6-03
6-6-03
6-6-03
NO
1. Duct detectors to be tested and shut down HVAC units at each mechanical unit.
 2. Remote enunciator at front door to read out and identify all devices as well as provide legend on front panel identifying zone areas.
 3. HVAC shut downs to individual units to cause a supervisory trouble condition and identify each unit as such.
 4. Complete test of alarm to central station for read outs.
 5. Update fire alarm permit for methane detection system and conduct test of same. (C)

Mechanical Units

- yes
yes
1. Inspect all mechanical units and identify each as HVAC or RTU units 1-5. Labeled as Active Room
 2. All units to be labeled as such on roof.

Kitchen Suppression

- Yes
6-6-03
6-6-03
6-6-03
1. Conduct dump test of kitchen suppression system.
 2. Have an as built drawing of appliances in relation to above mentioned system.
 3. Have fire extinguishers installed as indicated by architect.
 4. All ceiling areas where duct detectors are located to be identified as such. Install guide on smoke.

Miscellaneous Items

- Yes
6-6-03
6-6-03
6-6-03
1. Check all panic bars and exit doors for operation.
 2. Install truss roof sign by front and rear doors.
 3. Post occupancy load at front lobby and bar area.
Note: Contractor to verify with architect exact occupancy load with regards to waiting area, bar area, and seating area and provide same to Fire Bureau for issuance of occupancy load signs.
 4. Verify with architect front lobby area and flame spread rating of wood materials.

Items Completed

- 6-2-03
6-2-03
1. Tested emergency and exit lighting-two lights out, repaired while on site.
 2. Manual pulls operational for local alarm only.
 3. Verify that rear exit fenced in area (not currently installed) if gate installed, panic hardware must be installed on gate.

- Trouble for HVAC not seen @ back
- front panel + red EXHAUST AREA
- Knock box

- Provide Adequate Access to HVAC DUCTS
And Label same.
RTU (DIPING)

- Label front / rear
WES. using bar so spec on
mech room / WORK AREA



**The
Roberts
Group, PSC**

239 Southland Dr., Suite C, Lexington, KY 40503
PH: (859) 276-2006 Fax: (859) 276-2901

Facsimile Letter

TRG Project No: 01267

Date June 4, 2003

Number of pages including cover sheet **6**

TO: Mr. Kevin C. Batzel, Bureau
Chief/Fire Subcode Official
Township Building Department
401 Chambers Bridge Road
Brick, NJ 08723

Phone: (732) 262-1035
Fax Phone: (732) 262-8954
RE: Famous Dave's Restaurant,
Brick, NJ

FROM: Janet L. Pugh
The Roberts Group, P.S.C.
239C Southland Drive
Lexington, KY 40503

E-mail jpugh@trgpsc.com
Phone (859) 276-2006
Fax Phone (859) 276-2901

REMARKS: ☐ For approval ☒ For your use ☐ Reply ASAP ☐ Shop Drawings ☐ As requested
☐ For review and comment ☐ Approved as submitted ☐ Returned for corrections ☐ Approved as noted ☐ Please Comment

Dear Sir,

Per your request for information, I have provided the following:

Item 1: Occupant load

The following list is a breakdown of the occupant load for the various rooms for this project that have been calculated based upon actual seats provided.

BAR/BAR DINING: 37 seats (loose tables and bar stools)
CABIN DINING: 32 seats (one H.C. accessible table provided)
GRAND HALL DINING: 68 seats (two H.C. accessible tables provided)
DAVE'S OUTFITTERS DINING: 44 seats (two H.C. accessible tables provided)
TOTAL BAR AND DINING: 181 seats provided
BAR: 49 sf @ 3 sf/person = ~~147~~ persons (standing area behind bar stools)
TOTAL BAR STANDING: ~~147~~ persons **16**

The following list is a breakdown of the occupant load for the various rooms for this project that have been calculated based upon the square foot area calculations for this project. This calculation was used to determine also the required plumbing fixtures for the project.

1,857 S.F. OF KITCHEN AREA @ 100 SF/PERSON = 18.5 PERSONS = 19 persons

245 S.F. OF WAITING AREA @ 3 SF/PERSON = 81.6 PERSONS

³¹
= ~~82~~ persons

2,423 S.F. OF DINING AND BAR AREA @ 15 SF/PERSON = 162 PERSONS = 162 persons

TOTAL OCCUPANT LOAD BY AREA CALCULATION: 263 persons

Item 2: Flame spread rating at the entry vestibule.

At this time the flame spread rating and the smoke developed index for the wall material for the entry vestibule provides a Class "C" rating.

I have included here product information for a fire retardant coating, that can be purchased thru Sherwin Williams, that is a two step process consisting of a base coat and an overcoat which provides for a Class "B" rating. As I mentioned in our phone conversation, we are in the process of purchasing this product which may take one or two days to acquire but will be applied as soon as possible.

I am hopeful that I have provided the information you have requested and that this will allow you to complete your review and issue a certificate of occupancy.

If you have any questions regarding this transmittal, please call me.

Thank you for your time and help with our project.

Sincerely,

Janet L. Pugh, Architect

Cc: Bob Fanelli

Bill Caracciolo

*Flame Control
Niagara Falls, NY 14302*

PRODUCT DATA



FLAME CONTROL NO. 129

A Mineral Spirit Base, Alkyd Type

Fire Retardant Varnish Base Coat
Fire Hazard Classification, CLASS "B"

PRODUCT DESCRIPTION

A Class "B" fire retardant varnish base coat when applied to combustible surfaces. No. 129 must be topcoated with No. 130 Fire Retardant Varnish Overcoat, for maximum durability, cleansibility and to comply with the Underwriters' Laboratories fire hazard classifications. No. 129 is designed for use on all new, and previously coated wood surfaces (except floors). No. 129 and No. 130 contain no water soluble ingredients. The coatings will not leach or turn white on aging or washing. The varnish system is suitable for use on interior and exterior surfaces. On exterior applications, the life expectancy is similar to that of conventional alkyd varnishes. No. 129 is manufactured with Rule 66 mineral spirits, and possesses no strong or unpleasant odors during application.

RECOMMENDED USES:

For application to all combustible surfaces, where it is either necessary or desirable to reduce the surface burning characteristics of the substrate.

USED BY:

Schools, Colleges, Nursing Homes, Child Care Centers, Hospitals, Penal Institutions, Apartments, Hotels, Factories, Warehouses, Retail Stores, Restaurants, Utilities, Railroad and other Transportation Companies, Oil and Chemical Installations, Military Installations and other facilities where fire retardant coatings are required.

PERFORMANCE INFORMATION:

- Class "B" fire rated on combustible surfaces when topcoated with Flame Control No. 130 Fire Retardant Varnish Topcoat. (see fire hazard classification section)
- Class "A" fire rated on noncombustible surfaces when

- topcoated with Flame Control No. 130 Fire Retardant Varnish Topcoat. (see fire hazard classification section)
- Complies with federal, state, local building and fire code requirements.
- Dries by solvent evaporation to a flexible clear finish.
- Does not leach (lose fire retardancy) on exposure to high humidity.
- Meets all present lead and ecological regulations - Photochemically nonreactive according to Rule 102.

CHARACTERISTICS

Finish	Clear
Spreading Rate	300 sq. ft./U.S. gal. (7.4 m ² /L) 5 1/2 mils wet, 1.8 mils dry
Coverage @ 1 mil dry	534 sq. ft./U.S. gal.
Volume Solids	33% ± 2
Weight Solids	46% ± 2
Drying Time @ 77°F & 50% RH:	To touch 4 hours To handle 8 hours To topcoat 24 hours
Type of Cure	Solvent Evaporation
Flash Point	105°F (40.6°C) (Pensky-Martens Closed Cup)
Reducer/Cleaner	Mineral Spirits
Shelf Life	24 months (unopened)
Packaging	1 & 5 gal. containers
weight/gal.	7.8 ± 0.2 lbs.
shipping weight	4 gals. - 35 lbs. 5 gals. - 42 lbs.
Application	Brush, roll, conventional and airless spray

PRECAUTIONS:

The liquid coating contains volatile (combustible) solvents. Due care must be

exercised during and after application. Adequate ventilation must be provided during and after application until the coating is dry. Keep away from heat, sparks and open flame. Do not smoke - extinguish all flames, pilot lights and heaters - turn off stoves, electric tools, and appliances, and any other source of ignition. Avoid contact with skin and breathing of vapor or spray mist. Close container after use. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

SURFACE PREPARATION

Surface preparation should be carried out according to good painting practices. All dirt, grease, oil, wax, rust and other foreign matter must be removed. May be applied to previously coated surfaces in good condition. Glossy surfaces must be dulled with sandpaper or steel wool. All sanding, filling of nail holes, etc. must be completed prior to the application of No. 129.

APPLICATION

Mix material thoroughly by boxing or stirring. Flame Control No. 129 can be applied by brush, roller, conventional or airless spray. Apply a uniform coat at a coverage rate of up to 300 sq. ft./U.S. gallon (7.4 m²/L). The coverage rate obtained will vary with the porosity of the wood. To conform with surface burning characteristics established for this varnish, dilution of the varnish should be compensated with reduced coverage rates. Do not apply when surface or air temperature is below 50°F (10°C).

APPLICATION EQUIPMENT:

Conventional Spray

Air Supply 11.5 CFM, 50 psi
fluid 15 psi

PRODUCT
DATA

FLAME CONTROL NO. 129

A Mineral Spirit Base, Aikyd Type



Fire Retardant Varnish Base Coat
Fire Hazard Classification, CLASS "B"

Gun, Graco 217-800 to 217-818
Type, External Mix
Reduction, Up to 7%
Airless Spray
Pump, Super Stinger*
Fluid Pressure, 1625 psi
Strainer, 100 Mesh
Fluid Hose, 1/4" diameter
Gun, G-10N
Tip, .012 to .017
Reduction, Up to 7%

* Minimum

FIRE HAZARD CLASSIFICATION

Flame Spread Rating, Class "B" when applied to combustible surfaces. Class "A" over non combustible surfaces; when tested in accordance with ASTM E-84 (NFPA 255) the coating system obtained the following UNDERWRITERS' LABORATORIES fire hazard classifications.

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (When applied to Douglas Fir)	
	Flame Spread	Smoke Developed
SEALER - None BASE COAT - Type 129 applied in one coat at 350 sq. ft./U.S. gal. (7.4 m ² /L) TOP COAT - Type 129 applied in one coat at 600 sq. ft./U.S. gal. (14.7 m ² /L)	45	50
COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (When applied to Asbestos-Cement Board)	
	Flame Spread	Smoke Developed
SEALER - None BASE COAT - Type 129 applied in one coat at 350 sq. ft./U.S. gal. (7.4 m ² /L) TOP COAT - Type 129 applied in one coat at 600 sq. ft./U.S. gal. (14.7 m ² /L)	5	0

Information provided herein is based on tests believed to be reliable. In as much as we have no control over the use or application to which others may put this material, we make no guarantee or warranty. This product is sold on the condition that each user of the material make their own evaluation to determine the material's suitability for their own particular use.

RSVD 10/96

PRODUCT
DATA



FLAME CONTROL NO. 130

A Mineral Spirit Base, Alkyd Type

Fire Retardant Varnish Overcoat for No. 129
Fire Hazard Classification, CLASS "B"

PRODUCT DESCRIPTION

A Class "B" fire retardant varnish overcoat. Used as a topcoat for No. 129 fire retardant varnish basecoat. No. 130 is available in three sheens, low, semi or hi-gloss. These coatings contain no water soluble ingredients, and will not leach or turn white on aging or washing. No. 130 dries to a uniform sheen in approximately four hours, and is suitable for use on both **INTERIOR** and **EXTERIOR** surfaces. On exterior exposure the life expectancy is similar to that of conventional alkyd varnishes. No. 130 is manufactured with Rule 66 Mineral Spirits and possesses no strong or unpleasant odor, during application. Note: To comply with the Underwriters' Laboratories Class "B" fire hazard classification (ratings) established, No. 129 fire retardant varnish basecoat must be applied prior to the application of No. 130.

RECOMMENDED USES:

For application to all combustible surfaces, where it is either necessary or desirable to reduce the surface burning characteristics of the substrate. No. 129 and No. 130 coating system is recommended for use on wood paneling, woodwork, doors, door frames and other surfaces which are subjected to constant scuffing, handling or may require frequent washing.

USED BY:

Schools, Colleges, Nursing Homes, Child Care Centers, Hospitals, Penal Institutions, Apartments, Hotels, Factories, Warehouses, Retail Stores, Restaurants, Utilities, Railroad and other Transportation Companies, Oil and Chemical Installations, Military Installations and other facilities where fire retardant coatings are required.

PERFORMANCE INFORMATION:

- Class "B" fire rated on combustible surfaces when used over No. 129 fire retardant varnish basecoat. (see fire hazard classification section)
- Class "A" fire rated on noncombustible surface when used over No. 129 fire retardant varnish basecoat. (see fire hazard classification section)
- Complies with federal, state, local building and fire code requirements.
- Dries by solvent evaporation to a tough, durable, clear finish, available in low, semi or hi-gloss.
- Does not leach (lose fire retardancy) on exposure to high humidity.
- Meets all present lead and ecological regulations - Photochemically nonreactive according to Rule 102.

CHARACTERISTICS

Finish . . . Clear, low gloss, 12-18 units @ 60°
60°, semi-gloss, 45-55 units @ 60°
hi-gloss, 85-95 units @ 60°

Spreading

Rate . . . 600 sq. ft./U.S. gal. (14.7 m²/L)
2.7 mils wet, 0.8 mils dry

Coverage @

1 mil dry. 490 sq. ft./U.S. gal.

Volume Solids 31% ± 2

Weight Solids 43% ± 2

Drying Time @

77°F & 50% RH: To touch, 4 hours
To handle, 8 hours
To recoat, 24 hours

Type of Cure Solvent Evaporation

Flash Point 105°F (40.6°C)
(Pensky-Martens Closed Cup)

Reducer/Cleaner. Mineral Spirits

Shelf Life 24 months (unopened).

Packaging 1 & 5 gal. containers
Weight/gal. 7.75 ± 0.2 lbs.
Shipping weight 4 gals. - 35 lbs.
5 gals. - 42 lbs.

Application Brush, roll, conventional
and airless spray

PRECAUTIONS:

The liquid coating contains volatile (combustible) solvents. Due care must be exercised during and after application. Adequate ventilation must be provided during and after application until the coating is dry. Keep away from heat, sparks and open flame. Do not smoke - extinguish all flames, pilot lights and heaters - turn off stoves, electric tools, and appliances, and any other source of ignition. Avoid contact with skin and breathing of vapor or spray mist. Close container after use. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

SURFACE PREPARATION

After the application of Flame Control No. 129 Fire Retardant Varnish Base Coat has been completed, allow the surface to dry a minimum of 24 hours, lightly sand or steel wool. Remove all dust, dirt, etc. from the surface before applying No. 130.

APPLICATION

No. 130 can be applied by brush, roller or spray. Stir material well before using, then apply a uniform coat at a coverage rate of up to 600 sq. ft./U.S. gallon (14.7 m²/L). In hard use areas or where excessive wear is expected, a second coat is suggested. Allow at least 24 hours drying time between coats. To conform with surface burning characteristics established for this

PRODUCT
DATA

FLAME CONTROL NO. 130

A Mineral Spirit Base, Alkyd Type



Fire Retardant Varnish Overcoat For No. 129
Fire Hazard Classification, CLASS "B"

varnish, dilution of the varnish should be compensated with reduced coverage rates. Do not apply when surface or air temperature is below 50°F (10°C).

APPLICATION EQUIPMENT:

Conventional Spray

Air Supply..... 11.5 CFM, 50 psi
fluid 15 psi
Gun..... Graco 217-800 to 217-916
Type..... External Mix
Reduction..... Up to 7%

Airless Spray

Pump..... Super Stinger®
Fluid Pressure..... 1825 psi
Strainer..... 100 Mesh
Fluid Hose..... 1/4" diameter
Gun..... G-10N
Tip..... .012 to .017
Reduction..... Up to 7%

* Minimum

FIRE HAZARD CLASSIFICATION

Flame Spread Rating, Class "B" when applied to combustible surfaces. Class "A" over non combustible surfaces; when tested in accordance with ASTM E-84 (NFPA 255) the coating system obtained the following UNDERWRITERS' LABORATORIES fire hazard classifications.

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (When applied to Douglas Fir)	
	Flame Spread	Smoke Developed
SEALER - None BASE COAT - Type 129 applied in one coat at 300 sq. ft./U.S. gal. (7.4 mVL) TOP COAT - Type 130 applied in one coat at 800 sq. ft./U.S. gal. (14.7 mVL)	45	30
COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (When applied to Asbestos-Cement Board)	
	Flame Spread	Smoke Developed
SEALER - None BASE COAT - Type 129 applied in one coat at 300 sq. ft./U.S. gal. (7.4 mVL) TOP COAT - Type 130 applied in one coat at 800 sq. ft./U.S. gal. (14.7 mVL)	A	0

Information provided herein is based on tests believed to be reliable. In as much as we have no control over the use or application to which others may put this material, we make no guarantee or warranty. This product is sold on the condition that each user of the material make their own evaluation to determine the material's suitability for their own particular use.

RSVD 10/96

BRINKERHOFF
ENVIRONMENTAL SERVICES, INC.

1913 Atlantic Avenue, Suite R5
Manasquan, New Jersey 08736
Tel: (732) 223-2225
Fax: (732) 223-3666

June 4, 2003

Mr. Bill Calacciolo
Designline Construction Services, Inc.
442 Route 35 South
Third Floor
Eatontown, New Jersey 07724

Re: Combustible Gas Detection System
Famous Dave's Restaurant
Towne Hall Shoppes Facility
Brick Township, Ocean County, New Jersey
Brinkerhoff Project No. 01B022D

Dear Mr. Calacciolo:

Brinkerhoff Environmental Services, Inc. (Brinkerhoff) today conducted the initial calibration of the combustible gas detection system at Famous Dave's Grill and Barbeque (Building 4A) located at 950 Cedar Bridge Road, Brick, New Jersey.

Prior to calibration, the system was turned on, confirmed to be operating properly, and the low and high alarm limits were set at 10 percent and 20 percent of the lower explosive limit (LEL), respectively, of methane gas. Subsequently, the two (2) combustible gas sensors, located in the kitchen and near the restrooms, were calibrated and confirmed to be operating properly.

Brinkerhoff will inspect the system later this month to confirm that it is operating properly. Quarterly inspection and calibration will then be conducted during the scheduled quarterly combustible monitoring of the other buildings at the Towne Hall Shoppes.

To prevent a false alarm from occurring due to a power failure, Brinkerhoff recommends the installation of a DC power supply battery backup for the system as soon as possible.

Mr. Bill Calacciolo
Designline Construction Services, Inc.
Re: Combustible Gas Detection System
Famous Dave's Restaurant
Towne Hall Shoppes Facility
Brick Township, Ocean County, New Jersey

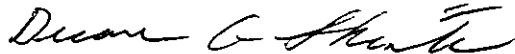
June 4, 2003

Page 2 of 2

Should you have questions or comments or require additional information, please do not hesitate to contact the undersigned at 732-223-2225.

Respectfully submitted,

BRINKERHOFF ENVIRONMENTAL SERVICES, INC.



DUANE A. SHINTON
Environmental Scientist



2102 EAST MAIN STREET • MARION, ILLINOIS 62959 • 616-997-9348
SALES: 800-851-8180 • SERVICE: 800-437-2579 • FAX 618-993-5960
<http://www.southern-pride.com> • sopride@midwest.net

FAX COVER LETTER

DATE: 6-4-03

COMPANY: Designline Construction

LOCATION:

FAX NUMBER: 732-286-0172

ATTENTION: Bill Caracciolo

Total number of pages including cover letter: 1

FROM: Sam Blue

MESSAGE

Re: Famous Dave's / Brick, NJ / Southern Pride XLR-1400-SLSE

The exhaust fan and one foot smoke extractor extension, mounted directly to the smoke extractor damper on top of the oven, is a fairly common method of installation, when the oven is installed "Through The Wall". The oven and smoke extractor system will function properly installed as you have described.

Sincerely,

Sincerely,


Sain Blue

Serv. Dept. Mgr.

TOWNSHIP OF BRICK PLOT PLAN REVIEW CHECKLIST

COMMERCIAL

BLOCK 670 LOT 9.02 DATE RECEIVED _____
 PROPERTY ADDRESS 960 CEDAR BRIDGE AVE. BLDG 4A
 APPLICANT NORTH COUNTRY BBQ VENTURES PHONE 212-517-8655
 ADDRESS 160 E. 66TH ST, BRICK, NJ NY, NY 10021
 CONTRACTOR DESIGNLINE CONSTRUCTION PHONE 132-935-1440
 ADDRESS 442 ROUTE 355, EATONTOWN, NJ 07124
 TYPE OF WORK NEW BUILDING ZONING APPROVAL _____
 FLOOD ZONE C FLOOD ELEV. N/A
 PANEL # 345285 MAP # 0004C DATE 3-1-84
 PLANNING BOARD/BOARD OF ADJUSTMENT APPROVED YES _____ NO _____

		YES	NO	N/A
1.	PLAN SIGNED & SEALED			
2.	SCALE OF NOT LESS THAN 1"=50'			
3.	EXISTING ELEVATIONS (NGVD IN FLOOD ZONES)			
4.	PROPERTY LINES, CORNERS, BEARINGS & DISTANCES			
5.	STREET GUTTER, CURB & CENTER LINE ELEVATIONS			
6.	CONTOURS; 1' INCREMENTS			
7.	ADJACENT DWELLING CORNERS & CORNER ELEVATIONS			
8.	PROPOSED GRADING/ELEVATIONS			
9.	GARAGE/1ST FLOOR/CRAWLSPACE/BASEMENT ELEVATIONS			
10.	PROPOSED DWELLING, DIMENSIONS & CORNER ELEVATIONS			
11.	METHOD OF DRAINAGE			
12.	NORTH ARROW			
13.	DRIVEWAY WIDTH/TYPE			
14.	DIMENSIONS/ACREAGE OF PARCEL/SETBACK LINES			
15.	PROPERTY ADDRESS/LOT & BLOCK NUMBER			
16.	SIDEWALK, CURB AND APRONS			
17.	PARKING AREAS			
18.	UTILITY & CONNECTIONS; WATER/SEWER/GAS/ELECTRIC			
19.	PLANTINGS, SEEDLINGS, SCREENINGS, FENCES, SIGNS			
20.	STREET WIDTH, STREET NAME, RIGHT-OF-WAY WIDTH			
21.	LIMITS OF CLEARING			
22.	BASEMENTS/DEDICATIONS/ENVIRONMENTAL CONSTRAINTS			
23.	PRIOR APPR: ARMY CORP/NJDEP/SOIL EROSION, ETC.			
24.	EXISTING STRUCTURES			
25.	RETAINING WALLS/SERVICE WALKS/OTHER MISC. ITEMS			

PLOT PLAN REVIEW

APPROVED 7/30/02

REJECTED 17/10/03

SIGNED

DATE

REVISION

APPROVED _____

REJECTED _____

SIGNED

DATE

COMMENTS

Per Site Plan

FAMOUS
DAVES

Township of Brick

Counter Form

(PLEASE PRINT)

update
02-3221

Site Location: 960 Cedar Bridge Ave. Bldg. 4A
Block: 670 Lot: 9.02
Owner's Name: PARAMOUNT REALTY
Owner's Mailing Address: 1195 Route 70
Lakewood, NJ 08701
Phone: ()

BUILDING

Contractor: DESIGN LINE CONST. SERVICES
Address: 442 RT 355
EATONTOWN N.J.
Phone#: 732 935-1440
Lis # _____
Federal Emp # or SSN _____

Technical Data

Description of Work:

(Change in footprint
NO volume
Change)

Type of Work

☐ New Building ☐ Siding
☐ Addition ☐ Fence
☐ Alteration ☐ Pool
☐ Roofing ☐ Demolition
☐ Asbestos Abatement ☐ Sign _____ sq ft

Building Characteristics

Use Group Present: _____ Proposed: _____
No of Stories: _____
Height of Structure: _____
Area of the largest floor: _____
Area of New Structure: _____
Volume of New Structure: _____
Total Land Disturbed: _____

Cost of Alteration: \$ _____

Cost of New Building: \$ _____

Total Cost of New Building Work: \$ 400.00

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: _____

Please Print Name CHRIS FALKENBURG

ELECTRICAL

Contractor: _____
Address: _____
Phone#: _____
Lis #: _____
Federal Emp # or SSN _____

Technical Data

Item	Quantity
Lighting Fixtures	_____
Receptacles	_____
Switches	_____
Detectors	_____
Light Poles	_____
Motors w/ Fract. HP	_____
Emergency & Exit Lights	_____
Communication Points	_____
Alarm Devices/FAC Panel	_____
Total	_____

Pool (Receptacles, Switches, Lights, Motor 1HP) _____
Spa/Hot Tub/Storable Pool _____
Electric Range _____ KW
Oven/Surface Unit _____ KW
Electric Water Heater _____ KW
Electric Dryer _____ KW
Dishwasher _____ KW
Garbage Disposal _____ HP
A/C Unit—Central Air _____ KW
Space Heater/Air Handler _____ KW
Baseboard Heating _____ KW
Motors 1+ HP _____
Transformer/Generator _____ KW
Light Stander _____ AMP
Service _____ AMP
Subpanel _____ AMP
Motor Control Center _____ AMP
Sign/Outline Light _____ KW
Furnace _____
Steam Boiler _____
Other: _____

Estimated Cost of Electrical Work: _____

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: _____

Please Print Name _____

CONTRACTOR'S SEAL

Counter Form
PLEASE PRINT

PLUMBING

Contractor: _____
Address: _____

Phone #: _____
Lis #: _____
Federal Emp # or SSN _____

Technical Data

Fixtures	Quantity
Water Closets (Toilet) _____	
Urinals/Bidets _____	
Bath Tub (w/or w/out shower head) _____	
Lavatory (BR Sink) _____	
Shower _____	
Floor Drain _____	
Sink _____	
Dishwasher _____	
Drinking Fountain _____	
Washing Machine _____	
Hose Bib _____	
Gas Piping _____	
Fuel Oil Piping _____	
Water Heater _____	
Steam Boiler _____	
Hot Water Boiler _____	
Sewer Pump _____	
Interceptor/Separator _____	
Backflow Preventer _____	
Greasetrap _____	
Air Conditioner (Condensate Drain) _____	
Septic Tank Closure _____	
Sewer Service Connection _____	
Water Service Connection _____	
Active Solar System _____	
Auxiliary Meter _____	
Sprinkler Heads _____	
Sump Pump _____	
Pool Heater _____	
Other: _____	

Estimated Cost of Plumbing Work _____

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: _____

Please Print Name: _____

CONTRACTOR'S SEAL

FIRE

Contractor: _____
Address: _____

Phone #: _____
Lis #: _____
Federal Emp # or SSN _____

Technical Data

Description of Work:

Heating Type: _____ Gas _____ Oil _____ Electric _____ Solar _____
Heating System is _____ New _____ Existing _____
Location of Furnace/Boiler: _____
Water Supply Source _____
Method of Valve Supervision: _____
Local Alarm Supervision _____
Central Supervision: _____
Proprietary Supervision: _____

Flammable Storage Tanks _____ capacity _____ fuel _____
Combustible Storage Tanks _____ capacity _____ fuel _____
LPG Storage Tanks _____ capacity _____ fuel _____

Item	Quantity
Wet Sprinkler Heads _____	
Dry Sprinkler Heads _____	
Total _____	
Smoke Detectors _____	
Heat Detectors _____	
Total _____	

Stand Pipes _____
Kitchen Hood Exhaust System _____

Pre-Engineered Systems:

CO2 Suppression _____
Halon Suppression _____
Foam Suppression _____
Dry Chemical _____
Wet Chemical _____

Gas/ Oil Fired Appliances:

Gas Stove _____
Gas Dryer _____
Furnace (Gas or Oil) _____
Gas Fireplace _____
Gas Logs _____
Total Appliances _____

Wood Burning Stove _____
Wood Fireplace _____
Other: _____

Estimated Cost of Fire Work _____

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: _____

Print Name: _____

RESOLUTION R-27-02
CASE No. PB-2356-PSP/FSP-2/01

Page 1 of 8
February 27, 2002

BRICK TOWNSHIP PLANNING BOARD
SECOND AMENDED PRELIMINARY AND
FINAL SITE PLAN APPROVAL WITH VARIANCES

RESOLUTION R- 27 -02

PAGE 1

CASE NO. PB-2354-A-2-PSP/FSP-V-1/02

February 27, 2002

WHEREAS, TOWN HALL SHOPPES JOINT VENTURE, having a mailing address of C/O Paramount Realty Services, Inc., 1190 Rt. 70, Lakewood, New Jersey, 08701, has applied to the Brick Township Planning Board for second amended preliminary and final site plan approval pursuant to N.J.S.A. 40:55D-46, 50, 51, 60, and 70; and

WHEREAS, the record owner of property is Fourth Venture Corporation LLC, Ninth Venture LLC, and Tenth Venture LLC, having a mailing address of 1195 Rt. 70, Lakewood, NJ, 08701;

WHEREAS, proof of service as required by law upon appropriate property owners and governmental bodies has been furnished and determined to be in proper order; and

WHEREAS, a public hearing was held on February 13, 2002 in the Municipal Building for a discussion of the reasons for the second amended preliminary and final site plan approval and all interested parties having been heard, and at which time testimony and exhibits were presented on behalf of the applicant including the following:

A-1: 1 marked-up general site plan

A-2: 2-sided exhibit—front: proposed site plan; back: originally approved bank/retail site

Map signed 6-13-02

FILE 2
RPP
PP ATT
PP ENG
B ATT
B ENG
CONING
GUILD
TAXA
BFS
ENG 2
OATH

A-3: Parking requirement calculations

A-4: Brochure for proposed "Famous Dave's" restaurant

A-5: Methane-monitoring materials

WHEREAS, the applicant received original preliminary and final site plan approval with variances with resolution R-41-99 dated May 26, 1999;

WHEREAS, the applicant has received amended preliminary and final site plan approval with variances with resolution R-33-01 dated April 25, 2001, which amended approval provided additional parking stalls in the rear of the proposed two-story 20,800 square-foot office building. That amended resolution reduced the on-site parking deficit from 38 parking stalls to 17 parking stalls.

WHEREAS, the Board makes the following factual findings and findings of law:

1. This property is known and designated as Block 670, Lots 9.01, 9.02, 9.03, and 9.04 on the Municipal Tax Map.
2. The property is located in the B-3 Highway Development Zone and B-2 General Business Zone and is located along Cedar Bridge Avenue.
3. The applicant currently proposes to further amend the previous approvals in order to change proposed uses of Building #3 and Building #4. Building #3, which was previously approved as a bank, is now proposed as a retail structure. Building #4 has been divided into two building pads. The previous approved use for Building #4 was retail; now Building #4 is retail but Building #4A is a restaurant. The proposed second amended preliminary and final site plan is shown on plans entitled, "Amended Site Plan, Block 670, Lots 9.01, 9.02, 9.03, and 9.04, 'Town Hall Shoppes Venture,' situated in the Township of Brick, Ocean County, New Jersey," dated 4/1/99, and last revised 11/19/01, consisting of nine (9) sheets, as prepared by Lindstrom and Diessner Associates, P.C.

4. Birdsall Engineering, Inc., prepared a report to the Board dated February 6, 2002. The Board hereby adopts the findings in that report and incorporates that document in this resolution by reference.

5. Michael P. Fowler, AICP/PP, Municipal Planner, prepared a report to the Board dated February 12, 2002. The Board hereby adopts the findings in that report and incorporates that document in this resolution by reference.

6. The Bureau of Fire Safety prepared a report to the Board dated January 25, 2002. The Board hereby adopts the findings in that report and incorporates that document in this resolution by reference.

7. The Traffic Safety Officer prepared a report to the Board. The Board hereby adopts the findings in that report and incorporates that document in this resolution by reference.

8. The Shade Tree Commission prepared a report to the Board dated February 18, 2002. The Board hereby adopts the findings in that report and incorporates that document in this resolution by reference.

9. The applicant seeks no new variances or design waivers; however, the applicant's original amended proposal increased the on-site parking deficit from seventeen (17) parking stalls to eighty-one (81) parking stalls; however, because of the ordinance requirement of tenants' spaces to be included in the calculation, that would require an additional twenty-seven (27) spaces for a total deficit of 108 spaces.

10. Applicant, and applicant's engineer Charles E. Lindstrom, P.E., testified that because of the unique circumstances of this site and the "synergy" of its occupants, the parking deficit was misleading and not an accurate reflection of the true conditions on site.

Mr. Lindstrom offered testimony that many of the businesses in the area were closed (i.e., Sherwin-Williams 6 PM weekdays, 5 PM Sat.; Attitude Hair 7 PM weekdays, 5 PM

Sat.; West Marine 6 PM weekdays, 5 PM Sat.; NAPA Auto 6 PM weekdays, 5 PM Sat.) when the proposed "Famous Dave's" restaurant was at its busiest, particularly Friday and Saturday evenings. Therefore, Mr. Lindstrom, reasoned, those spaces were not being used by the closed businesses could be utilized by Famous Dave's restaurant patrons. Because the Board was not wholly convinced of this "sharing" complementary use, Mr. Lindstrom, on behalf of the applicant, prepared a parking analysis, dated February 18, 2002, which detailed the number of spaces saved by complementary available use. Additionally, Mr. Lindstrom testified that few, if any, of the businesses utilized shopping carts, which help the width of available parking.

Further, Tutor Time Day Care Center, located at the extreme easterly building (#6) would not be open weekends or late Friday night, freeing numerous adjacent spaces for use by the restaurant or other businesses at that time. Additionally, a reduction in the parking stall length to 9' x 20' with hairpin striping from 10' x 20' could make available additional parking spaces—except in the immediate area of Tutor Time, where spaces would remain 10' x 20' in length. Mr. Lindstrom testified that he believed these measures would improve available parking and result in an improved traffic circulation pattern.

Applicant produced testimony of environmental engineer John Zingas, who testified that, in his professional opinion, the extensive methane monitoring previously approved and required by the Board in its previous resolutions, no longer was necessary, and that a lesser degree of monitoring could be accomplished without ill effect. Mr. Zingas testified to the minimal existence of methane found on site after monitoring and review of over one hundred man hours—and the fact that more sophisticated monitoring equipment is now available. After some consideration and recognizing the Board's reluctance to modify its previous monitoring requirements, the applicant agreed not to pursue a reduction in monitoring and same is to remain without modification in place as required by previous resolutions.

11. Applicant through Robert Emerson, one of "Famous Dave's" corporate executives, testified as to the configuration of the restaurant. Mr. Emerson advised that Famous Dave's headquarters is in Minnesota and has restaurants in the Midwest, but is expanding into the Northeast. Of fifty-seven locations, all but four were conversions from other food franchises. For example, Mr. Emerson testified that the most recent conversion was a former Steak and Ale restaurant in Mountainside, NJ that is due to open as a "Famous Dave's" by the end of March 2002. Mr. Emerson further testified that, in keeping with the concept of Famous Dave's, the décor would have the Northwest motif shown in the brochure (Exhibit A-4) with perhaps a total payroll of part-time and full-time employees of sixty, but at any one time usually twenty-five or so on site. The restaurant would be open for service from 11 AM to 11 PM, and applicant advised that it was the intention of "Famous Dave's" to secure a liquor license.

Robert Fannelli, the "Famous Dave's" operating partner charged with oversight of the restaurant's operation, testified of the applicant's willingness to satisfy the Board's concerns as to waiting patron overcrowding and overflow as Brick Township has experienced at other restaurants in the area. The applicant, through its architect James Tierney of Barlo Associates, agreed to more than double the space between Building #4 (retail building) and building #4A (Famous Dave's restaurant) to create a courtyard with a common area to be utilized by waiting restaurant patrons, as well as others. It would be approximately twenty-two feet wide and eighty feet long. Further, it would have benches for seating approximately thirty people, and Mr. Tierney further testified that the courtyard would have "old-fashioned" streetlights and two windows on each courtyard side into each building from the courtyard area, to "open up" the site. The applicant advised that the courtyard would have a salutary effect on the area.

The applicant further indicated that they would agree to blend a stone façade with a wood light stain (shown to the Board, with samples), with sheet metal accents across both buildings, to "tone down" the brighter coloring shown in the "Famous Dave's" brochure (A-4).

The reduction in parking spaces variance is appropriate as is the reduction of parking stall width to 9' x 20' in parking areas other than adjacent to the Tutor Time Day Care Center. The Board is satisfied that the availability of parking spaces, due to businesses not open at time of site's busiest use, is appropriate and therefore under those circumstances the variance for reduction in required number of parking spaces is granted. Further, design waiver for reduction of stall size from required 10' x 20' to 9' x 20' in areas other than adjacent to Tutor Time Day Care Center is appropriate and therefore granted.

12. With the exception of the variances and the waivers granted hereinabove, the applicant has complied with the requirements of the site plan ordinance. The plan is consistent with the intent and purpose of the Master Plan and the Municipal Development Ordinance. Accordingly, the Board finds that the benefits of the proposed development outweigh any detriments, and the relief requested can be granted without substantial detriment to the public good and will not substantially impair the intent and purpose of the Township Zoning Ordinance or Master Plan.

NOW, THEREFORE, BE IT RESOLVED by the Township Planning Board on this 9th day of January, 2002, that this application be approved subject to the following conditions:

1. The applicant shall comply with all standard Planning Board conditions for preliminary major subdivision approval as set forth on Attachment 'A.'
2. The applicant shall comply with all representations and agreements made by the applicant or its attorney during the presentation of this case.

3. The applicant shall comply with the following paragraphs contained in the report of Birdsall Engineering, dated February 6, 2002: 3, 4, 6, 7, 8 (applicant will modify application to eliminate left turn from central entrance/exit).

4. The applicant shall comply with the following comments contained in the report from Michael P. Fowler, Municipal Planner, dated February 12, 2002: V. Comments: A, B, D, E, F, G, H, I, J.

5. The applicant shall comply with the comments contained in the report from the Bureau of Fire Safety dated January 25, 2002.

6. The applicant shall comply with the comments contained in the report from the Traffic Safety Officer, including no left turns from center exit including placement of raised center island and "No Left Turn" signage.

7. The applicant shall comply with the comments contained in the report from the Shade Tree Commission February 18, 2002.

8. The applicant has agreed to reconfigure and re-stripe the entire parking area of 9' x 20' parking stalls with hairpin striping (except the remaining 10' x 20' Tutor Time stalls).

RESOLUTION R-27-02
CASE No. PB-2356-PSP/FSP-2/01

Page 8 of 8
February 27, 2002

MOVED BY: Mr. Kelly

SECONDED Mr. Dockery
BY:

VOTING IN THE
AFFIRMATIVE: Mr. Kelly, Mr. Dockery, Mr. Petoia, Mr. Reilly

Mr. Vespi, Mr. Fredo, Mr. Higgins

VOTING IN THE
NEGATIVE:

INELIGIBLE TO
VOTE: Mr. Scherer

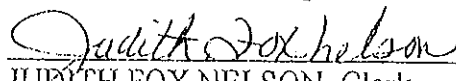
ABSTAINING:

ABSENT: Councilman Underwood, Mrs. LaDuke, Mr. Nerlick

CERTIFICATION

I, JUDITH FOX NELSON, Clerk of the Planning Board of the Township of Brick, County of Ocean, State of New Jersey, do hereby certify that the foregoing resolution was duly ADOPTED by the said Planning Board of the Township of Brick at a regular meeting held on the 27th day of February, 2002.

IN WITNESS WHEREOF, I have set my hand this 1st day of
March, 2002.


JUDITH FOX NELSON, Clerk
Brick Township Planning Board

ATTACHMENT "A"

BRICK TOWNSHIP PLANNING BOARD

STANDARD CONDITIONS FOR SITE PLAN APPROVAL

RESOLUTION R-27-02

PAGE 9

CASE NO. 2354-A-2-PSP-FSP-V-1/02

1. Applicant shall obtain certification by the Local Soil Conservation District of a plan for soil erosion and sediment control in accordance with N.J.S.A. 4:24-39 et seq., commonly known as the "Soil Erosion and Sediment Control Act."
2. All materials, methods of construction and details shall be in conformance with the current "Engineering Specifications and Construction Details" of the Township of Brick, which are on file in the office of the Township Engineer.
3. Applicant shall obtain all approvals required by any Federal, State, County or Municipal agency having regulatory jurisdiction of this development. Upon receipt of such approval(s), the applicant shall supply a copy of the permit(s) to the Board. In the event that any other agency requires a change in the plans approved by this Board, the applicant must reapply to the Brick Township Planning Board for approval of that change.
4. Applicant shall resubmit this entire proposal for re-approval should there be any deviation from the terms and conditions of this Resolution or the documents submitted as part of this application, all of which are made a part hereof and shall be binding on the applicant.
5. Applicant shall provide a statement from the Brick Township Tax Collector that all taxes are paid in full as of the date of this Resolution and as of the date of the fulfillment of any condition(s) of this Resolution.
6. Prior to the issuance of a construction permit, the applicant shall furnish the Township Clerk with a cash bond and performance guarantee in an amount to be determined by the Township Engineer.
7. Applicant shall post an inspection fund with the Township Clerk in an amount to be determined by the Township Engineer.

CASE NO. 2354-A-PSP-FSP-V-1/02

8. No soil shall be removed from the site without the written approval of the Township Council.

9. The applicant shall comply with all provisions and pay all fees established under Article VB (Mandatory Development Fees) of Chapter 190 of the Code of the Township of Brick.

10. For all residential uses the subdivider or site plan applicant shall provide for a trash receptacle.

11. In order to insure uniformity of trash receptacles and compatibility with the automatic trash collection system, all trash can receptacles required herein shall be obtained from the Township of Brick.

12. Applicant shall provide proof of application for Title NJSA 39:5 A-1 to the Planning Board.

Counter Form
PLEASE PRINT

Bill
732 887 0868
Call

PLUMBING

FIRE

Contractor: _____
Address: N/A
Phone #: _____
Lis #: _____
Federal Emp # or SSN _____

Contractor: Designline Const.
Address: 442 Rt 35 CATON TOWN
Phone #: 732-935-1440
Lis #: _____
Federal Emp # or SSN 22-3345372

Technical Data

Fixtures	Quantity
Water Closets (Toilet)	_____
Urinals/Bidets	_____
Bath Tub (w/or w/out shower head)	_____
Lavatory (BR Sink)	_____
Shower	_____
Floor Drain	_____
Sink	_____
Dishwasher	_____
Drinking Fountain	_____
Washing Machine	_____
Hose Bib	_____
Gas Piping	_____
Fuel Oil Piping	_____
Water Heater	_____
Steam Boiler	_____
Hot Water Boiler	_____
Sewer Pump	_____
Interceptor/Separator	_____
Backflow Preventer	_____
Greasetrap	_____
Air Conditioner (Condensate Drain)	_____
Septic Tank Closure	_____
Sewer Service Connection	_____
Water Service Connection	_____
Active Solar System	_____
Auxiliary Meter	_____
Sprinkler Heads	_____
Sump Pump	_____
Pool Heater	_____
Other:	_____

Estimated Cost of Plumbing Work _____

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: _____

Please Print Name: _____

CONTRACTOR'S SEAL

Technical Data

Description of Work:

Heating Type: ☒ Gas ☐ Oil ☐ Electric ☐ Solar
Heating System is ☒ New ☐ Existing
Location of Furnace/Boiler: Roof Top Units (5)
Water Supply Source _____
Method of Valve Supervision _____
Local Alarm Supervision _____
Central Supervision: _____
Proprietary Supervision: _____
Flammable Storage Tanks N/A capacity _____ fuel _____
Combustible Storage Tanks N/A capacity _____ fuel _____
LPG Storage Tanks N/A capacity _____ fuel _____

Item	Quantity
Wet Sprinkler Heads	_____
Dry Sprinkler Heads	<u>N/A</u>
Total	_____

Smoke Detectors NOTE ON FIRE ALARM PERMIT
Heat Detectors _____
Total _____

Stand Pipes N/A
Kitchen Hood Exhaust System (2)

Pre-Engineered Systems:
CO2 Suppression _____
Halon Suppression _____
Foam Suppression _____
Dry Chemical _____
Wet Chemical (2) NOTE ON ANSUL permit # 02-3221+C

Gas/ Oil Fired Appliances:
Gas Stove (2) (checkbook 2 Fryer 2 4 Stoves)
Gas Dryer Washing Machine
Furnace (Gas or Oil) 5- Roof top Units
Gas Fireplace (1)
Gas Logs _____
Total Appliances _____

Wood Burning Stove N/A
Wood Fireplace _____
Other: MAKE UP AIR UNIT. 1
SMOKER UNIT. 1

Estimated Cost of Fire Work \$1500.00

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: B. H. Calacciolo
Print Name: B. H. Calacciolo DCS

Township of Brick

Counter Form
(PLEASE PRINT)

UPDATE 02-3221-HE
DATE 5-8-03
INITIALED BY (signature)
FOR FIRE

Site Location: 960 Cedarbridge Ave Famous Daves Bar
Block: 670 Lot: 9.02
Owner's Name: Eighteenth Venture
Owner's Mailing Address: 1195 Rt 70 Suite 2000
Phone: ()

BUILDING

ELECTRICAL

Contractor: _____
Address: _____
Phone#: N/A
Lis # _____
Federal Emp # or SSN _____

Contractor: _____
Address: _____
Phone#: N/A
Lis # _____
Federal Emp # or SSN _____

Technical Data

Description of Work:

Technical Data

Item	Quantity
Lighting Fixtures	
Receptacles	
Switches	
Detectors	
Light Poles	
Motors w/ Fract. HP	
Emergency & Exit Lights	
Communication Points	
Alarm Devices/FAC Panel	
Total	

Type of Work

☐ New Building	☐ Siding
☐ Addition	☐ Fence
☐ Alteration	☐ Pool
☐ Roofing	☐ Demolition
☐ Asbestos Abatement	☐ Sign _____ sq ft
☐ Fireplace wd/gas	

Building Characteristics

Use Group Present: _____ Proposed: _____
No of Stories: _____
Height of Structure: _____
Area of the largest floor: _____
Area of New Structure: _____
Volume of New Structure: _____
Total Land Disturbed: _____
Cost of Alteration: \$ _____
Cost of New Building: \$ _____
Cost of Site Work \$ _____
Total Cost of New Building Work: \$ _____

Pool (Receptacles, Switches, Lights, Motor 1HP) _____
Spa/Hot Tub/Storable Pool _____
Electric Range _____ KW
Oven/Surface Unit _____ KW
Electric Water Heater _____ KW
Electric Dryer _____ KW
Dishwasher _____ KW
Garbage Disposal _____ HP
A/C Unit -Central Air _____ KW
Space Heater/Air Handler _____ KW
Baseboard Heating _____ KW
Motors 1+ HP _____
Transformer/Generator _____ KW
Light Stander _____ AMP
Service _____ AMP
Subpanel _____ AMP
Motor Control Center _____ AMP
Sign/Outline Light _____ KW
Furnace _____
Steam Boiler _____
Other: _____

Estimated Cost of Electrical Work: _____

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: _____
Please Print Name _____

Signature: _____
Please Print Name _____

CONTRACTOR'S SEAL

FAMOUS
DAVIS

Township of Brick

Counter Form
(PLEASE PRINT)

Received 06/02/03 cap

update

02-3221 +
F

Site Location: 960 Cedarbridge Ave
Block: 870 Lot: 9.02
Owner's Name: Eighteenth Venture
Owner's Mailing Address: 1195 Rt 70
Lacewood NJ 08701
Phone: ()

BUILDING

Contractor: _____
Address: _____
Phone#: N/A
Lis # _____
Federal Emp # or SSN _____

Technical Data

Description of Work:

4- TVs
31- SPEAKERS
2- MICROPHONES
3- AMPs. TOTAL 800W
8- volume control.
48
Within
RACK

Type of Work

☐ New Building ☐ Siding
☐ Addition ☐ Fence
☐ Alteration ☐ Pool
☐ Roofing ☐ Demolition
☐ Asbestos Abatement ☐ Sign _____ sq ft
☐ Fireplace wd/gas

Building Characteristics

Use Group Present: _____ Proposed: _____
No of Stories: _____
Height of Structure: _____
Area of the largest floor: _____
Area of New Structure: _____
Volume of New Structure: _____
Total Land Disturbed: _____

Cost of Alteration: \$ _____

Cost of New Building: \$ _____

Cost of Site Work \$ _____

Total Cost of New Building Work: \$ _____

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: _____

Please Print Name _____

ELECTRICAL

update
for music
system

Contractor: AG Elect.
Address: 2 Mayank Lane
Howell NJ 07731
Phone#: 732 458-9838
Lis #: 10285
Federal Emp # or SSN _____

Technical Data

Item	Quantity
Lighting Fixtures	_____
Receptacles	_____
Switches	_____
Detectors	_____
Light Poles	_____
Motors w/ Fract. HP	_____
Emergency & Exit Lights	_____
Communication Points	<u>48</u>
Alarm Devices/FAC Panel	_____
Total	_____

Pool (Receptacles, Switches, Lights, Motor 1HP) _____
Spa/Hot Tub/Storable Pool _____
Electric Range _____ KW
Oven/Surface Unit _____ KW
Electric Water Heater _____ KW
Electric Dryer _____ KW
Dishwasher _____ KW
Garbage Disposal _____ HP
A/C Unit -Central Air _____ KW
Space Heater/Air Handler _____ KW
Baseboard Heating _____ KW
Motors 1+ HP _____
Transformer/Generator _____ KW
Light Stander _____ AMP
Service _____ AMP
Subpanel _____ AMP
Motor Control Center _____ AMP
Sign/Outline Light _____ KW
Furnace _____
Steam Boiler _____
Other: _____

Estimated Cost of Electrical Work: _____

I hereby certify that I am the agent/owner of record and am authorized to make this application and perform the work listed on this application.

Signature: B. H. Caracciolo

Please Print Name B. H. Caracciolo

732-887-0868

CONTRACTOR'S SEAL