



CITY OF PORTLAND, MAINE Department of Building Inspection

# Certificate of Occupancy

LOCATION, 12-14 Sherman Street

Issued to Portland West Neighborhood Planning Date of Issue March 9, 1983

Chuncil
This is is reriffy that the building, premises, or pare the cof, at the above location, built—altered —changed as to use under Building Permit No. 82-558 , has had final inspection, has been found to conform substantiall, to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES

APPROVED OCCUPANCY

5 Units Limiting Conditions:

1. All plantings and finished bridscaping to be completed by G-1-83

2. 3½ split-rail, cedar fence along western line to be completed by 5-1-83

2. 3½ split-rail, cedar fence along western line to be completed by 5-1-83 1st & 2nd floors Community spaces must have emergency lighting and ends signs before we will release for occupancy This certificate supursedes certificate issued Approved: 17/83 Hayton C Barbar ....



# APPLICATION FOR PERMIT

# DEPARTMENT OF BUILDING INSPECTIONS SERVICES ELECTRICAL INSTALLATIONS

Receipt and Permit number A7	
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To the CHIEF ELECTRICAL INSPECTOR, Portland, Maine:	aus of
To the CHIEF ELECTRICAL INSPECTOR, Portland, make electrical installations in accordance with the ly The undersigned hereby applies for a permit to make electrical installations in accordance with the ly The undersigned hereby applies for a permit to make electrical Code and the following specifications:	
The undersigned hereby applies for a permit to make electrical tributant the following specifications:  Maine, the Portland Electrical Ordinance, the National Electrical Code and the following specifications:	
Maine, the Portland Electrical Ordinance, the National Steel  LOCATION OF WORK: 14 Sherman Street  OWNER'S NAME: Portland West Neigh. Assoc. ADDRESS: FR	
OWNER'S NAME: Portland West Reign. Assoc. ADDAESS. F	EES
	,
OUTLETS:  Receptacles Switches Plugmold ft. TOTAL125	<u>ئىس 50</u>
FIXTURES: (number of)	/``
FIXTURES: (number of) Incandescent Flourescent (not strip) TOTAL 30 Strip Flouresce't ft.	j.00
Strip Mourescent ft.	<del>/-</del>
SERVICES:	./: <u>.</u>
The second of th	<u>2.00</u>
Overhead Underground Temporary	1.44
MOTORS: (number of)	
MOTORS: (number of) Fractional	
Fractional 1 AP or over	
RESIDENTIAL HEATING: Oil or Gas (number of units)	
Oil or Gas (number of units) Electric (number of rooms)	
Electric (number of rooms)	
COMMERCIAL OR INDUSTRIAL HEATING: Oil or Gas (by a main boiler)	
Oil or Gas (by a main boiler)Oil or Gas (by separate units)	
Oil or Gas (by separate units)Over 20 kws/	
APPLIANCES: (number of)	
Ranges 5 Water Heaters — —	
Cook Tops — Disposals	
Wall Ovens Dishwashers	
Compactors	
Others (denote)	13.50
	3.50
MISCELLANEOUS: (number of) Branch Panels _6	6.3
Branch Panels _6	
Ar Conditioners Central Unit	
A.r Conditioners Central Units (windows)	
Signs 20 sq. ft. and under	
Orran 20 nm ft	
en b The la Albana Cuntured	
T. M	
The December Marrie Pacification	
TI Duty Outlots 220 Volt (such as welders) 30 amps and under	
over 30 amps	
Circus, Fairs, etc.	
47147 & & &	
The complete material films	
Un aggregat Lighte hattery	
Emergency Generators	
FOR ADDITIONAL WORK NOT ON ORIGINAL PERMIT DOUBLE FEE DUE:	
FOR REMOVAL OF A "STOP ORDER" (304-16.b)	
TOTAL AMOUNT DUE:	51.00
INSPECTION.	
will be ready on 10.44 . 1982; or Will Call	
CONTRACTOR'S NAME: Connect I. Stanford	
ADDRESS: P. O. Box 330 - No. Windham, Ma. C4062	
TEL: 892-4059	
MASTER LICENSE NO.: 2934 SIGNATURE OF CONTRACTOR:	
LIMITED LICENSE NO.:	

INSPECTOR'S COPY — WHITE
OFFICE COPY — CANARY
CONTRACTOR'S COPY — GREEN

INSPECTIONS: Service	by	debby	Date of Permit  Final Inspection  By Inspector  Permit Application Register Page	Perm Loca
Service call	ed in	2	Date of Permit Final Inspection By Inspector Permit Applic	The state of the
Closing-in	4	hilly	Appl	
· · · · · · · · · · · · · · · · · · ·	<i>f</i> <sub>e</sub>	/		
PROGRESS INSPECTIONS:	11-3-821		2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	2,24
	11-504	/	題 / D   O	Nest Nest Nest Nest Nest Nest Nest Nest
•	12-14-87	/		
CODE	1-18-83	/	F 2	2 5 / Z
	2-9-83	/	3 300	
COMPLIANCE	,,	,	16 100	1 3 B
COMPLETED	//		[w]	59 E
DATE 2-9-83		l.	101116	E-1-451
DATE: REMA	RKS:		, , , , , , , , , , , , , , , , , , ,	30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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CUMBERLAND Sã. 5 ٤/ ، STREET 0005 0005



# APPLICATION FOR PERMIT

# DEPARTMENT OF BUILDING INSPECTIONS SERVICES ELECTRICAL INSTALLATIONS

•	Date	9
	Receipt and Permit number A 349	
To the CIHEF ELECTRICAL INSPECTOR, Portland, Maine: The undersigned hereby applies for a permit to make electrical insta	llations in accordance with the laws of	1
Maine, the Portland Electrical Ordinance, the National Electrical Code LOCATION OF WORK: 14 Sherman St.		_
OWNER'S NAME: Peoples Regional Orror ADDRESS:	same / FEES	
OUTLETS:		
Receptacles Switches Plugmold ft. TO FIXTURES: (number of)	11111	
Incandescent Flourescent XX (not strip) TOTAL	<u>1-10</u>	
Strip Flourescent ft		
Overhead Underground Temporary TO METERS: (number of)	TAL amperes	
METERS: (number of) MOTORS: (number of)		
Fractional		
1 HP or over		
RESIDENTIAL HEATING: Oil or Gas (number of units)		
in this (number of rooms)		
COMA: AL OR INDUSTRIAL HEATING:		
Oil or Gas (by a main boiler)		
Electric Under 20 kws Over 20 kws		
APPLIANCES: (number of)	<del></del>	
Ranges Water Heaters Cook Tops Disposals	•	
Cook Tops Disposals Wall Ovens Dishwashers	***************************************	
Dryers Compactors		
, Tans Others (denote)		
TOTAL MISCELLANEOUS: (number ož)		
Branch Panels		
Tr. nsformers		
Air Conditioners Central Unit		
Signs 20 sq. ft. and under	***************************************	
Over 20 sq. ft.		
Swimming Pools Above Ground In Ground		
Fire/Burglar Alarms Residential		
Commercial		
Heavy Duty Outlets, 220 Volt (such as welders) 30 amps and ut	nder	
Circus, Fairs, etc.		
Alterations to wires		
fer fire		
Fortgency Generators		
INSTALL	ATION FEE DUE:	
FOR / - TIONAL WORK NOT ON ORIGINAL PERMIT DC FOR &MOVAL OF A "STOP ORDER" (304-16.b)	OBLE FEE DUE:	
TOTA	L AMOUNT DUE: 6.00	
INSPECTION:		
Will be ready onxx , 19 ; or Will Call		
CONTRACTOR'S NAME: W. Cassidy	<del></del>	
ADDRESS: 21 Lodging St. 774-5478		
MASTER LICENSE NO.: 241 SYGNATURE OF	F CONTRACTOR:	
LIMITED LICENSE NO.: Yarma	r landy	
INSPECTOR'S COPY WHITE	d .	
OFFICE COPY CANARY	·	

OFFICE COPY - CANARY
CONTRACTOR'S COPY - GREEN

INSPECTIONS: PROGRESS INS	Service called in	by	ELECTRICAL Permit Number
COD COMPLIA COMPLE DATE-19-	VCE	-///	ELECTRICAL INSTALLATIONS—  Permit Number 34974  Location 14 Shemau St.  Date of Permit 11-16-79  Final Inspection 11-19-25  Final Inspection 11-19-25  Permit Application Register Page No. 42  Permit Application Register Page No. 42
		set signs (	

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# APPL. TIO FOR PERMIT

# DEPARTMENT OF BUILTING INSPECTIONS SERVICES

ELECTRICAL ACTALLATIONS

Date Jan. 7, 1976, 19 Receipt and Permit number A 11665

To the CHIEF ELECTRICAL INSPECTIVE undersigned hereby applies for the Portland Electrical Ordinarce, the N	a permit to make elec Iational Electrical Cod	ctrical instal'ations in accord e and the following specificati	ons:	
LOCATION OF WORK. 14 Sher	man_St	4 ODD F00		
OWNER'S NAME: K.P. Home		ADDRESS:		····
OUTLETS: (number of \\	ber of feet)			FEES
				.2.4.4
FIXTURES: (number of) Incandescent Fluorescent (Do TOTAL Strip Fluorescen, in feet				<u> </u>
orns dore.				
Permanent total apperes 21	<u>00                                   </u>			3.00
METERS: (number of)				50
MGTORS: (number of)		,,,, , ,,,,,, , ,,,,,,,	********	
1 HP or over				
RESIDENTIAL HEATING: Oil or Gas (number of units) Electric (number of rooms)				
COMMERCIAL OR INDUSTRIAL H	EATING:		, , , , , , , , , , , , , , , , , , , ,	
Oil or Gas (by separate units Electric (total number of kws	) ·······			
APPLIANCES: (number of)		Water Herters		
Ranges Cook Tops Wall Ovens		Disposals Dishwashers		
Dryers		Compactors	<del></del>	
Fans TOTAL		Others (denote)		
MISCELLANEOUS: (number of)				
Transformers				
Air Conditioners -				
Signs Fire/Burglar Alarms				
Cianus Enies ata				
Alterations to wires				
Repairs after fire	<del></del>			
Emarganou Lighte hatte				
Emergency Generators		INSTALLATION FI	EE DUE:	
FOR ADDITIONAL WORK NOT O	N ORIGINAL PERM	IT DOUBLE FE	EE DUE:	
FOR REMOVAL OF A "STOP ORD FOR PERFORMING WORK WITH	DER" (304-16.5) OUT A PERMIT (30-	4-9) TOTAL AMOUN		6.50
INSPECTION: Will be ready on	, 19; or Will (	CallXX		
	aandal B Wile	0.11		
ADDRESS:65_J	tim St. Topsam	_		
MASTER LICENSE NO.: 304	5	SIGNATURE OF CONTRA	CTOR:	<i>t</i> , 1
LIMITED LICENSE NO.:		Cramenda	l Si ava	laon.
Fliairing Picture, 1.0"		OR'S COPY		

iak

	Service called in	ELECTRICAL IN Permit Number — A
COD	ANCE	7/7
COMPL	ETED Z 127	INSTALLATIONS A 11665
DATE	13-76	½   ½   ½   ½   ½   ½   ½   ½   ½   ½
DATE:	REMARKS:	
1	- a	
	The state of the s	
	178	<u>.                                    </u>
		<del></del>

		PEH M	OF T	INSTALL PLUMBING	, -	
		Acdre		سيست المتعالم	MIT NUMBER	<del></del>
_	Date		ation Fo			PG 21 V8
/ Y-	Issued 8/19/68		r's Add:			J-1 J-
, ,	Portland Plumbing Inspector	Plumb		ess: 18 Sheronn Street	Date: a A a	10 200
	By ERNOLD R. GOODWIN		REP'L		NO.	TEE .
	App. First Insul		1.1	SINKS		
	<b>レビコ (中一年2月28日</b> )		ī	LAVATORIES	1 3	2.09-
			11	TOILÉTS		2.00
	BYERNOLD R. GOODWIN		11	BATH TUBS	<u> </u>	2.00-
\$	CHIEF PLUMBING THE TANK		<u> </u>	SHOWERS	1 A C 2 2 2	` `
	55 - CAMPA		ļ	DRAINS FLOOR SURFA	ACE	· - ,
	Date "		<del>                                     </del>	TANKLESS WATER HEATERS		<del> </del> ,
	By ERNO ) R. GOODWIN		1	GARBAGE DISPOSALS	1 1	-2.00
	CHIEF PLUMSING RISPECTOR Type of Bldg.			SEPTIC TANKS	<del></del>	<del> 60</del>
	☐ Commercial		<del> </del>	HOUSE SEWERS		
V	☐ Residential		┼	ROOF LEADERS	<del>-i</del> -	
	☐ Single	ļ	1	AUTOMATIC WASHERS	• .	40 V
, Liman	☐ Multi Family	ļ ———		DISHWASHERS		
(	☐ New Construction		<del> </del> -	OTHER		·
	Remodeling					
						- '
					TOTAL 7	11.20
	Building o	nıd İnsp	ection S	ervices Dept.; Plumbing Inspection		:

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Memorandum from Department of Building Inspection, Portland, Maine

AP- 14 Sherman Street

Dec. 17, 1962

rythien Benevolent Corp. 14 Sharman Street

cc to: Portland Gay Light Co.
5 Texple Street

Contlument

Permit for installation of gar-fired cooking range at the above named location is issued herewith to the Fortland Cas light Company. Approved is given for installation of this range without a hood over it on the condition that no frying in deep fat or any other cooking that might create a quick unfriendly fire is to be done on it.

Very truly yours,

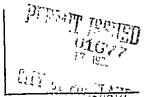
Albert J. Sears Eullding Inspection Director

AJS (m

CS-27



# APPLICATION FOR PERMIT FOR HEATING, COOKING OR POWER EQUIPMENT



Portland, Maine, December 14, 1962
To the INSPECTOR OF BUILDINGS, PORTLAND, ME.
The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications.
Location 14 Sherman Street Use of Building Club and Lodge No. Stories Rexisting "
Nome and address of owner of appliance Pythian Benevolent Corp., 14 Sherman St
General Description of Work
To install gas-fired.#286H Garland Range
Permit Issued with Memo
IF HEATER, OR POWER BOILER
Location of appliance Any burnable material in floor surface or beneath.  If so, how protected?  Kind of fuel?
Minimum distance to burnable material, from top of appliance or casing top of lurnace
From top of smoke pipe From front of appliance From side of appliance
Size of channey flue Other connections to same flue
If gas fired, how vented? Rated maxis a semant per hour
Will sufficent fresh air be supplied to the appliance to insure proper and safe combustic.  IF OIL BURNER
Name and type of burner Labelled by underwiners, laboratories?
Will operator be always in attendance Does oil supply line feed from top or nottom of tank?
Type of floor beneath burner Size of vent pipe
Location of oil storage Sumber and espacity of San
Low water shut off Make No.
Will all tanks be more than five feet from any flame? How many tanks enclosed?
Total capacity of any existing storage tanks for furnace hurners
IF COOKING APPLIANCE
Location of appliance basement Any burnable material in floor surface or beneath? Yes .  If so, how protected? tile . Height of Legs, if any 4"
Skirting at bottom of appliance? no Ostance to combustible material from top of appliance? 4!
From front of appliance 4t . From sides and back 6th From top of smukepipe 12th
Size of chimney flue .12x16 Other connections to same flue none .
Is hood to be provided? yes If so, how vented? to chianey Forced or gravity?
If gas fired, how vented? to chimney Rated maximum demand per hour
MISCELLANEOUS EQUIPMENT OR SPECIAL INFORMATION
and the same of th
* metal with l"spacing with non-combustible spacers
A.G.A. P4. 488. JULY 1962.
and the second of the second o
Amount of fee enclosed? 2.00 (\$2.00 for one heater, etc., \$1.00 additional for each relational heater, etc., in same building at same time.)
Will there be in charge of the above work a person competent to see that the State and City requirements pertaining thereto are

APF

observed? .... yes Portland Gas Light Co.

Signature of Installer By: Deber ct. Lane

INSPECTION COPY

3-6-63

APPLICATION FOR PERMIT Class of Building or Type of Structure 2nd class

Portland, Maine, larch 26, 1962

RESIDENCE ZONE PERMIT ISSUED AUG 30 1962 1055

CITY of PORTLAND

To the INSPECTOR OF BUILDINGS, PORTLAND, MAINE

Location - 14 Sherman Street	wing specifications: Within Fire Limits?	Dist No
Owner's name and address <u>3tl Ansgar Lui</u> Prospective owner Lesse's name and address <u>Knitts of Pyth</u>	nia a de Paral Transa 26ºPlea	sant Ave. So. Portla
Contractor's name and address Frankell Lo	odge 43	Telephone
Architect	Curiford'	No of cheet-
Proposed use of buildingFraverns		
Last use	Santa of work	Dasca-
Material brick No. stories		
Other buildings on same lot		2.00 pa.
Estimated cost \$ 1000.00	Description of New Work	3.00-pd.2-30
To Change Use of building from thus	1	* *
With Alterations.		
		4 m
This application is preliminary to In event the appeal is sustained than and pay legal F	ne applicant will furnish comple	on appear.
)	Slagfordle proper scatained 8/6.	62
Porteit les "Letter Zou	Lugonal sustained 4/12/62	The second secon
It is understood that this permit does not include ins the name of the heating contractor. PERMIT TO		taken out separately by and in
n	etails of New Work	
Is any plumbing involved in this work?		ı this work?
Is connection to be made to public sewer?		
H is septic tank notice been sent?		
Height average grade to top of plate		
Size, from depth No. stor.		
Material of foundation		
Kind of roofKise per foot		
No. of chimneys		
Framing Luruber-Kind Dressed or		
Size Girder Columns under gird	•	
Studs (outside walls and carrying partitions) 2x4-		
	7nd3rd	
•	, 2nd, 3rd	
	, 2nd, 3rd	· ·
If one story building with masonry walls, thickness		
It on story building wan inwonsy wans, the die		mercant rigital amoranament seminar
•	If a Garage	
No. cars now accommodated on same lot , to i	be accommodatednumber commercial c	ars to be accommodated
Will automobile repairing be some other than min	or repairs to cars habitually stored in the p	roposed building?
naven.	Miscellane	านร
ROVED:	Will work require disturbing of any tre	e on a public street? no
garrigani, harpinggap wedago specials, milional office flavolles harman in his barrantino in milio del del del	Will there be in charge of the above	•
	see that the State and City requires	
Special and the second special	4 1	
	1 Special Commencer at Amount	Lutheran Church
301	BRAMHALL Grand Hall	Lodge #3

Staking Out Notice
Form Creek Notice Final Inspr. 10/5//2-Amendment for flow rinkering - Stub furding end down Destrict rem to we. ujn vij 10/4/12 - Checked forting, for Sally columns - allan 10/14/22 - allan to abech - allan 11/ 1/12- Un ble : get a chil- alla 1115/62 - Ban eal don antipose la solvera - 28 vidoall O. K. - Front exil door each 38" wide - One dear has note prairie itresture The Mer has dead both Dell will open when der with not - paring buttoman ا، دو 15 11 21 2 mg 16 mg F 14 77.

And the second of the second o

# CITY OF PORTLAND, MAINE MEMORANDUM

TO: Robert Hawkins, Director of Model Cities

DATE: May 22, 1968

FROM: A. Allan Soule, Acting Deputy Director of Building & Inspection Services
SUBJECT: Public Assemblage - 14 Sherman Street

This building has been approved for Public Assemblage and a Certificate of Occupancy issued on November 5, 1962 with the limited condition that not more than 150 persons at one time are permitted in this building.

An inspection made of this building on May 20, 1968 revealed the following deficiencies:

- 1. Boiler room ceiling is falling down. This will need to be corrected.
- 2. At least a Class "C" fire door with a closer is required on the door to the boiler room.

A. Allan Soule

mt BAA



CITY OF FORTLAND, MAINE Department of Building Inspection

# Certificate of Occup

LOCATION 12-14 Sherman Street

Issued to Knights of Pythias

Date of Issue June 22, 1979

Citis is in rertify that the building, premises, or part thereof, at the above location, built—altered—changed as to use under Building Permit No. 79/204, less had final inspection, has been found to conform-substantially to requirements of Zev...; Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited o. otherwi. —s indicated below.

PORTION OF BUILDING OR PREMISES

APPROVED OCCUPANCY

Entire

Limiting Conditions:

Social & Recreational Facility

This certificate supersedes certificate issued

Approved:

6=2?

Inspector

# APPLICATION FOR PERMIT

PERMIT ISSNAN

APR 3 1979

CALA OF BURLLAND

ZONING LOCATION PORTL	AND, MAINE, Feb 2 , 1979 188 18 18 18 18 18 18 18 18 18 18 18 18
ture, equipment or change use in occordance with the Laws of Zoning Ordinance of the City of Portland with plans and spetions.	r, repair, Jemoilsh, move or install the following building, struc- of the State of Maine, the Portland B.O.C.A. Building Code and ecifications, if any, submitted herewith and the following specifica-
LOCATION 12-14 Sherman St.	
2. Lessee's name and adddress prospective owner Jerry Corley	71 Roberts St. Telephone 773-8783
4. Architect	al facilty No families
Last use	Style of roof Roofing
Other buildings on same lot	
Estimated contractural cost \$  FIELD INSPECTOR—Mr	GENERAL DESCRIPTION  Fee \$ 5.00 pd. Appeal fee \$15. Pd.
O SEC SAST	•
D117	change use from lodge hall to mon- profit
Garage	Stamp of Special Condition
Masonry Bldg	Stamp of Special Conditions
Metal Bldg Appeal subtained _	3-1-29 3
Demolitions	
	100 maria ser annum ser an
Other	y the installers and subcontractors of heating, plumbing, electri-
NOTE TO APPLICANT: Sepa sis are required be call and mechanicals.	Jarry Conley
	070 1 2 3 4
	Other:
DETAILS (	DY NEW WORK
Is connection to be made to public sewer?	. Is any electrical work involved in this work?
Has septic tank notice been sent?	Form notice sent?
Size, front depth No. stories	solid or filled land? carth or rock?
Material of foundation Thickness	s, top bottom cellar
Kind of roof Rise per foot	Roof covering
No. of chimneys Material of chimneys	of lining Kind of heat fuel
Size Girder Columns under girders	Size Max. on centers
Study 'outside walls and carrying partitions' 2x4-16" O.	C. Bridging in every floor and flat roof span over a feet.
Joists and rafters: 1st floor,	2nd, 3rd, roof
	2nd , 3rd , roof
Maximum span; 1st floor	s? height?
	GARAGE
Ne sars low accommodated on same let, to be accommodated	mmodated number commercial cars to be accommodated
Will automobile repairing be done other than minor reps	res to cars habitually stored in the proposed building?
APPROVALS BY: DATE	MISCELLANEOUS
BUILDING INSPECTION—PLAN EXAMINER ZONING:	
BUILDING CODE:	
Fire Dept.	
Health Dept.:	are observed? Ye.#,
Others:	of Colo profitor
Signature of Applic.nt	Canlass
Type Name of above	Other1 🗀 2 🗀 3 🗀 4 🗀
FIELD INSPECTOR'S COPY	and Address

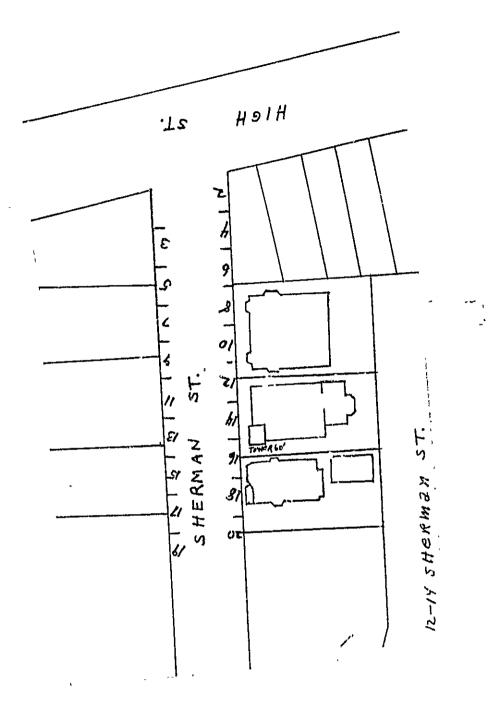
NOTES

OLD USO - NO Altimologia

955 CO

The Applied-for

12-14 Sherman St. March 2, 1979 Jerry Conley 71 Roberts Street Portland, Maine Dear Mr. Conley: Following is the decision of the Board of Appeals regarding your petition to permit Change of Use of the above described structure to a private club or non-profit social and recreational facility. Please note that your appeal was granted. Also, before your permit can be issued, you must pay for the parmit fee itself. Please make all checks payable to City of Portland. Very truly yours. Malcolm G. Ward Building Inspection Supervisor MGW/r



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4. 20. CITY OF PORTLAND, MAINE BOARD OF APPEALS

VARIANCE APPEAL

March 27, 1962

St. Ansgar Lutheran Church , owner of property at 12-14 Sherman Street under the provisions of Section 24 of the Zoning Ordinance of the City of Portland, hereby respectfully petitions the Board of Appeals for a variance from the provisions of said Ordinance to permit: Changing the use of the building at this location from church purposes to those of a fraternal organization. This permit is presently not issuable for the following reasons: (1) The proposed use is not allowable in the R-6 Residential Zone in which the property is located without authorization of the Board of Appeals, as provided by Section 7-A-7e of the Ordinance. (2) The 14 off-street parking spaces required by Sec. 14-B-7 cannot be provided on the lot and are not to be provided elsewhere.

LEGAL BASIS OF APPEAL: Such variance may be granted only if the Board of Appeals finds that the strict application of the provisions of the Ordinance would result in undue hardship in the development of property which is inconsistent with the intent and purpose of the Ordinance; that there are exceptional or unique cirsumstances relating to the property that do not generally apply to other property in the same zone or neighborhood, which have not crisen as a result of apply to other property in the same zone or neighborhood, which have not arisen as a result of action of the applicant subsequent to the adoption of this Ordinance whether in violation of the provisions of the Ordinance or not; that property in the same zone or neighborhood will not be adversally affected by the acceptance of the provisions of the Ordinance or not; that property in the same zone or neighborhood will not be adversely affected by the granting of the variance; and that the granting of the variance will not be contrary to the intent and purpose of the Ordinance.

# DECISION

ing held April 12, 1962 , the Board of Appeals finds that all of the above exist with respect to this property and that  $\varepsilon$  variance should be granted After public hearing held April 12, 1962 conditions do in this case.

It is, therefore, determined that a variance from the provisions of the Zoning Ordinance be granted in this case.

# City of Portland, Maine Municipal Officers

BUILDING CODE

August 1, 1962 , 19

To the Municipal Officers:

, who is the Your appellant, Knights of Pythias , respectfully petitions the Municipal Officers of the City of Portland to permit an exception to the provisions of the Buildiag Code relating to this property, as provided by Section 115, Paragraph A of said Building Code.

Building permit for changing the use of the church building at the above named location to a lodge building for a fraternal order is not issuable under the Building Code for the following reasons: (1) The easterly and westerly walls of the main building, which, while of masonry construction, are less than twenty feet from the lot lines, do not have fire-resistive windows as required by Sections 206-b-3 and 207-b-1 of the Code. (2) All three walls of a rear addition of wood frame construction are closer than 20 feet to lot lines and do not have the two-hour fire resistance with fire-resistive windows and doors required by Sec. 206-b-3. (3) Existing rear exit stairs and doors are only about 32 inches wide instead of the minimum of 34 inches required by Sections 212e-2.3 and 5.1.

The facts and conditions which make this exception legally permissible are as follows: An exception may be granted if the Municipal Officers find that the enforcement of the Building Code would involve practical difficulty and desirable relief may be granted without substantially departing from the intent and purpose of the Code.

Knights of Pythias

By: Makler M. Johnson

, 19 62. 6th After public hearing held on the the Municipal Officers find that an exception is necessary to avoid practical difficulty and desirable relief may be granted without substantially departing from the intent and purpose of the Code.

It is, therefore, determined that exception to the Building Code may

be permitted

in this specific case.



# (A) APARTMENT HOUSE ZONE Permit No APPLICATION FOR PERMITPERING JESTIF APPLICATION FOR PERMITPERING JESTIF MAR 27-1934. Portland, Maine, March 26, 1934 Pector of Buildings, Portland, Mr.

To the	INSPECTOR	OF	BUILDINGS.	PORTLAND, M	В.

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# (A) APARTMENT HOUSE ZONE APPLICATION FOR PERMIT

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Permit No. PATT ISSUED 2489

# APPLICATION FOR PERMIT

Class of Building or Type of Structure Second Class

NOV 22 1998

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To, the INSPECTOR OF		TLAND, ME.	÷	4 T	
any, submitted herewith	and the following a	permit to error alter has sine, the Building Code o pecifications:	of the City of P	ortiana, plans and	pacifications, if
Location 14 Sherman	Street	B	_Within Fire Li	mits? 165 D	ot No. 3
Owner's make work name	se and address Itali	unial fartharan Chur	ch 14 Shorwa	n st.	
Contractor's name and a	ddress Owner	Peter Ennavedt)		T-11	one
Architect's name and addi	ress				
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If oil burner, name and m	rodel	<del></del>		·	, ,
Capacity and location of o	oil tanks	•			
Is gas fitting involved?		Size	of service	. ,	<u> </u>
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Will above work require re	moval or disturbing	of any shade tree on a pu	ıtlic street?	120	
Plans filed as part of this	application?n	<u> </u>	No. sheets	, ,	z / v 1
Estimated cost \$ 20.	1				.25
Will there be in charge of	the above work a pe			ity requirements per	
re observed? You	<del></del>	Intern	el lutheran	doxinting 1	
• •	Signature o	owner	-L. B	vedence !	e .

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April 11,1927.

Sveedish Lutheran Church 14 Sherama Stroat Portland, Maino.

Centlamen:-

A recent dispection of the new steam hasting plant that you have previded in the basement of the church shows that the according between the heater room and the auditorium has not been made self-closing as agreed upon in the application for the building permit.

It will be necessary for you to provide a selfclosing device so that this door will be closed at all times when not actually in use. This should be taken care of promptly so that everything may be in satisfactory condition at the time of the next inspection.

Yours truly,

Inspector of Buildings,



# Application for Permit for Alterations and Miscellaneous Structures

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CI.	ASS OF BUILDING	OR TYPE OF ST	RUCTURE		<b>→</b>
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To the INSPECTOR	OF BUILDINGS, POR				
the I are as	ereby applies for a perm	d the Bullding Ordina	ance of the City	of Portland:	
specifications, the Law- of	State by Manney an	Faller U	. 13		io.
Location 16 Show's  Owner's name and ad	Omelial Int.	Ward_	Within	Fire Limits?	
Owner's name and ad	dress ? Goddan Zav				
Contractor's name and	address?				<del></del>
Architect's name and a	ddress?			Ilono	<del></del>
Last use of building?	- Jan		No. Famili	76.00	
Proposed use of building	ng ?		No. Famili	es (	
		n of Present	- A 2: b.		alt
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roun in huster	room•				
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	Size of N	ew Framing I	lembers		
Corner posts ?	Sills ?	Rafters or roof	beams?	on center ?	
Material and size of co	lumns under girders?.			on center?	
Ledger board used ?					
•••	er. Bridging in every				
Floor timbers:	1st floor	, 2nd	, 3rd	, 4th	
On centers:	Ist floor	, 2nd	, 3rd	, 4th	
Span:	1st floor	, 2nd	, 3rd	, 4th	
-	If 1st or 2	2nd Class Con	struction		
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July Walls		tails New Con			
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	ing ?				
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Signature of or	oner or authorized repr	esentative ?			Arendi -
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# ELECTRICAL PERMIT City of Portland, Me.

City of Portland, Me.

To the Chief Electrical Inspector, Portland Maine:
The undersigned hereby applies for a permit to make electrical installations in accordance with the laws of Maine, the City of Portland Electrical Ordinance, National Electrical code and the following specification:



,	,	t. Neighborhood		ADDRES	s	<del></del>				
OUTLETS		<del>!                                    </del>		<del></del>		<del></del>		TOTA	EACH	FEE
		Receptacles		Switches		Smales Data stari				<u></u>
FIXTURES		(number of)	—	Owiches		Smoke Detector			.20	<u> </u>
		incandescent		fluorescent						
		fluorescent strip		ndorescent		ļ		L	.20	
SERVICES		was occorr durp						<b> </b>	.20	<u> </u>
		Overhead	_	<u> </u>		TTLAMPSTO	000	ļ	45.00	
	_	Underground				TILAWIPSIO	800	·	15.00	7 - 4 -
TEMPORARY SERV.							800	<u>- : </u>	15.00	>10
and a color of the color of the color	-	Overhead -	<del>-</del> -			AMPS OVER	800	<u> </u>	05.00	ļ <u>.</u>
, , , , , , , , , , , , , , , , , , , ,		Underground				AWITSOVER	800		25.00	
METERS	<del></del> -	(number of)			<del>-</del>		_ 000		25.00	~ * 11 .
MOTORS	-	(number of)	_				<del></del> _		1.00	<u> </u>
RESID/COM		Electric units						ļ	2.00	
HEATING		oil/gas units		<del></del>		-			.1.00_	140
APPLIANCES	, _	Ranges	<del>-</del>	CookTops		Wall Ovens	*** -		5.00	
		Water heaters	<del></del> -	Fans		Dryers			2.00	ļ
Disposals	_	Dishwasher		Compactors		Others (denote)			2.00	<u> </u>
MISC. (number of)	_	Air Cond/win				Others (denote)			2.00	
		Air Cond/cent							10.00	
		Signs				_~		<del> </del>	, 5.00	ļ
,		Pools						.,. ,.	10.00	<b></b>
		Alarms/res							5.00	
- / + b - pr		Alarms/com			<del></del> -				15.00	<del> </del>
		Heavy Duty		-				<del> </del>	2.00	
		Outlets						<u> </u>	2.00	<del> -</del>
	-	Circus/Carnv		<del></del>		-		<del> </del>	25.00	
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		Fire Repairs		.g conduite	) - ·		<u> </u>	·	15.00	5.00
		⊆ Lights				<del> </del> -			1.00	<b></b>
	_	E Generators							20.00	
		Panels				<del></del>			4.00	
TRANSFORMER		0-25 Kva							5.00	
		25-200 Kva							8.00	
		Over 200 Kva							10.00	
						TOTAL AMOUNT	DIE	L	10.00	<b></b>
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	Service called in by	ELECTR Permit Numb Location Owner, Owner final Inspector By Inspector
	Closing-inby	ELECTRICA Permit Number Location  Owner  Date of Permit _ Final Inspection By Inspector
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# SECTIO: 15400

## PLUMBING

# Fart 1: GELERAL

# 1.01 Related Documents

The General Conditions and Special Conditions of Division I of these specifications apply to the work specified in this section.

# 1.02 Contractor

Where the word "Contractor" appears in this Section, it shall mean the Plumbing Contractor.

## 1.03 Standards

The Fortland Plumbing Code and such other coder of the State of Maine as apply shall be considered as minimum requirements for plumbing work.

# 1.04 Description

The extent of the plumbing rork is as shown on the drawings, and si cified herein. Furnish all materials, labor, tools, equipment, transportation and incidentals necessary or required for a complete plumbing installation, in accordance with the evident intent of the drawings and as commonly required in standard practice, including, without limitation.

- 1. Plumbing fixtures and 'ittings.
- 2. Traps, drains, fittings, valves, vents, trim, sanitary and roof drainage as indicated.
- Cold water system, including water service to all "extures and equipment.
- 4. Not water system, from domestic hot water heater to fixtures.
- 5. Removal of own rubbish and cleaning of all fictures.
- 6. Flamming of vents and stacks through the roof. Courdinate installation with roofing contractor.

# 1.05 Work Under Other Division

- a. Excavation and backfill.
  - 1. Excavation and backfill are specified under Division 2.
- b. Cutting and Patching.
  - 1. The Plumbing Contractor shall keep himself informed as to the location of pipes, etc., and the openings he will require for his work and shall furnish and set all sleeves, ingles, frames, hangers, inserts, etc., so that they may be built in place.

15400

- 2. All piping passing through basement walls or floors shall be completely sealed water-tight.
- 3. All pipes shall, where possible, be installed before walls and floors are constructed and built in place; otherwise, falvanized steel or cast iron sleeves shall be set for them. The pipes passing through sleeves shall be grouted in and waterproofed after installation by the Plumbing Contractor.
- 4. Every precaution shall be taken to place sleeves for all pipes before construction, and the cutting of the structure is to be avoided if possible. Any cutting and patching due to neglect or oversight of the Plumbing Contractor in carrying out these instructions will be done at his expense.

# 1.06 Workmanship and Paterials in General

- a. The Contractor shall employ a competent foreman, whose qualifications are satisfactory to the Owner and Architect/Engineer, and who shall constantly supervise the work from its beginning to its completion and acceptance.
- b. The Contractor shall employ workmen who are competent and properly equipped with necessary knowledge, skill, tools and materials to do a first-class job. All work must be executed in a workmanlike manner and shall present a neat mechanical appearance when completed.
- c. The Contractor shall protect all walls, floors, ceilings, etc., while installing the work, and shall protect the fixtures, bining, etc., from damage after their installation, and until the work has been accepted.
- d. All equipment, apparatus, appliances and fintures shall be new, and shall be installed, connected, and adjusted in strict accordance with the manufacturer's recommendation and instructions, wherever possible. Such printed instructions shall be available to the workmen and shall be left with the equipment at the completion of the work.
- e. Where no specific make of material, apparatus or fixture is mentioned, any standard product of a manufacturer regularly engaged in the production of such equipment may be furnished, provided it conforms to the applicable codes and standards. Where a specific make is mentioned, it shall be interpreted as establishing a standard of quality, and shall not be con trued to limit competitive products. The Contractor may substitute any product which, in the judgment of the Engineer, is could to the product specified, and for which approval is obtained from the Engineer.

# 1.07 Coordination with Other Trades

Contractor shall review plumbing drawings with other contract drawings to determine areas where coordination of work with other trades in required and before installing any work shall cooperate with other trades as required to prevent conflicts or interferences.

# 1.08 Permits

All required inspection forms, permits, and approvals shall be obtained and paid for by the Contractor, who shall comply with all local, State and Federal ordinances pertinent to his work.

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Pare 2 of 8

# 1.09 Equipment Schedules and Shop Drawings

- a. Not later than one (1) werk after execution of the contract, the Contractor shall submit to the Architect, through the General Contractor, a complete list, in quadruplicate, of those items of materials and equipment which he intends to incorporate in the work. No material and equipment shall be purchased for the work until this list is approved by the Architect, and no material shall be used in the work unless it is included in this list.
- b. In addition to the list of material and equipment, the Contractor shall submit six (6) copies of shop drawings of all fabricated equipment for approval by the Architect and for the Comer's use.

## 1.10 Record Drawings

The Contractor shall maintal a scale drawing, showing the progressive installation of his work, in its actual location, and showing the actual construction, and shall, at the completion of the work, submit this drawing to the Architect to make a reproducable drawing for the Comer's u ...

## 1.11 Guarantee

- a. The Contractor shall werrant and maintain his work for one (1) year after the completion and acceptance of his work. If any defects in materials or workmanship appear within this time, unless due to faulty use of the apparatus, the Contractor shall, at his own expense, remedy such defect and pay for any camage to work resulting from such defects.
- b. The Contractor shall furnish certificates to the Owner and the Architect to the effect that he has complied with all Federal and State Laws and local ordinances which govern his work.

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Page 3 of 8

## Part 2: HATERIALS

# 2.01 Soil, Waste and Vent Piping Buried

Soil, waste and vent piping and fittings buried in the ground shall be service weight iron, asphalt-coated, bell and spigor or no-hub, with no-hub couplings.

# 2.02 Soil, Waste and Vent Piping Above Ground

Soil, waste and vent riping and fittings above ground shall be cast iron or FVC Schedule 40 pipe.

# 2.03 Vent Pipes 21 and Smaller, Above Grade

Vent pipes  $2\frac{1}{2}$ " and smaller, above grade, shall be Schedule 40 galvanized seamless steel, conforming to AST. A-120. Fittings shall be galvanized screwed cast iron, recessed drainage type of PVC Schedule 40 pipe.

# 2.04 Vent Pipe 3" and Larger, Above Grade

Vent pipe 3" and larger, above grade, shall be extra heavy cast iron, with bell and spiget fittings of forming to ASA-A40.0, or no-hub cast iron, or other material or PVC ... 40 pipe.

# 2.05 Waste Piping 2" and x". " Above Grade

Waste piping 2" and smaller, above grade, may be type "L" heavy seamless copper tubing with heavy cast brass drainage pattern fittings, with

### 2,00 Lead and Cakum

Lead for caulking shall not be less that 99.5% pure; Cakum for caulking shall be the best commercial grade.

#### 2.07 Water Piping

- a. Type "L" hard with all connections of 50-50 solder.
- b. All hot and cold water piping shall be water tested to 150 psi for one hour with no pressure loss or observed leaks.
- c. All hangers shall be copper plated hangers by Carpenter and Paterson, Inc.

#### 2.08 Valves

Valves shall be cronze, inside corew, rising spindle type. Valves smaller than 2" shall have solder ends. Valves 2" and larger shall have screwed ends. Gate valves shall be equal to Wolverine 50318. Globe valves shall be equal to Wolverine 50376. Check valves shall be equal to Wolverine 50403. Unions shall be brass 125 ibs ground joint type, equal to Dart Union. Drain-offs shall be equal to PIECO 701D.

### 2.09 Exposed Fixture Piping

Exposed fixture piping shall be chromium-plated iron pipe siz brass pipe,

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copper bearing, with screwed fittings. Fittings and escutcheons shall be chromium plated red brass. Provide stops at all fixtures.

## 2,10 Cleanouts in Walls

Cleanouts in walls and partitions shall be equal to Zurn Series Z-1320 with polished stainless steel round or square access cover plates, with countersunk retaining screw. Cleanouts in floors shall be equal to Zurn Series Z-1326, with flush nickel bronze floor plates.

## 2.11 Meter Connection

The water meter to be provided by the Public Water Co. Contractor to coordinate with the Public Water Co. and provide all additional material not provided by the Public Water Co. to complete all necessary work.

### 2.12 Insulation

Insulation for hot and sold water pipe shall be  $3\frac{1}{2}$  lb. fiberglass with universal fire retardant vapor barrier jacket, equal to Owens Corning. 2" thick for cold water piping and 12" thick for hot water piping.

### 2,13 Supports

Supports for sanitary waster, vents and water piping larger than 2" shall be equal to Crine. Grinnell or Carpenter Fatterson. Supports for cast iron pipe 2" and smaller shall: flat band or split ring type. Use 3/8" rod for 2" and smaller 2" to 32" cast iron pipe, 5/8" rod for 4" to 5", and 2" rod for 6" cast iron pipes. Hangers for overhead horizontal rrvs of pipe 2" and larger shall not be spaced over 10' apart, and for  $1\frac{1}{2}$ " are smaller not over 8' apart. If lighter weight pipe is used, hangers may be reduced in size with the approval of the Engineer.

### 2.14 Fixtures

Fixtures shall be free of cracks, crazing or imperfections and shall be watertight. Fixtures shall be furnished with all accessories required or necessary for their installation. Fixtures supplied without traps shall be installed with separate traps and cleanouts. All fixtures shall be furnished with supplies, stops, and unions. Fixtures shall be of the type and model noted herein. The fixtures listed are recommended. However, any or all of them may be replaced by an approved equal. Fixtures and fittings shall be manufactured by American Standard, ther, Universal Rundle or equal approved by the Architect.

### 2.15 Water Closet

Vitreous china, floor mounted; close-coupled water conserving tank, siphon jet, round bowl, with solid plastic plosed-front seat, chrome-plated supply

Kohler - Wellworth Waterguard K-3500PB/EB Amer. Std. - Watersever Cadet 2122.44,8/2109.395 Univ. Rundle - New Castle 4055

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## 2.16 Lavatory - Vanity

Vitreous china vanity top, complete with faucet, drain, chromeplated supply pipes, stops and "p" trap, vanit, cabinet with louvered doors, antique brass hardware, solid meed frame, high density particle board surface and floor.

Univ. mindle - 7637-30 w/ 4632 top and Delta 520 faucet & drain fittings.

## 2,17 Bathtubs and Shower

Regular one piece fiberglass tub and wall sucround unit, 5 foot length, slip resistant floor or floor strips, tub and shower supply fittings, pop-up drain and grab bars per architectural plans.

Kohler-Barbados-K-1405/06 with K-7150-R pop-up drain.
Amer. Std. No. 2146.264/272 with No. 1506.101 pop-up drain.
Univ. Rundle - Cabanabath II No. 6920/21T with 22.81 pap-up drain.

b. Provide tub-shower valve, shower head and tub spout. Tub-shower valve shall be temperature-limiting, pressure balancing type with tub-shower divertor and volume control integral with valve. Valve shall have lever handle and adjustable temperature limit stop.

Symmons S-75-2(LX2) - approved equal.

### 2.18 Kitchen Sink

Type 302, 18/20 gauge, stainless steel, self rimming, with combination faucet and cup strainer drain with Delta \$100 swing spout faucet.

Regular - Pakey - CR 3322 (7" depth), double compartment.

### 2.19 Wall Hydrants

Non-freeze type, with 3/4"  $^{\rm hPT}$  inlet and  $3/^{\rm h}$ "  $^{\rm HPT}$  outlet, brass wall casing, brass operating parts and renewable seat; length of wall casing shall be as required for each specific application. Wolverine Brass 50270. Provide Watts No. 1988 vacuum breaker on outlet.

## 2.20 Washing Machine Supply

Single lever type, bronze body, brass ball valve with teflen seats, Watts No. 2 Duo-clos.

### 2.21 Domestic Hot Water Heater

Provide gas fired hot water heater of 75 gal. storage capability, 75,000 BRUH input rating and 68 GPH recovery & 100° ris. Unit shall be energy saving type meeting the ASHRAE 90A-1980 energy efficiency standard. Unit shall be connercial grade with glass lined heavy gauge steel tank, atmospheric type burner with factory set high limit control and 100% safety shut-off in event of pilot failure. Unit shall have A.G./, seal of certification, a working pressure rating of 150 psi, and an ASME rated pressure-temperature relief valve. Unit shall be A.O. Smith, State Industries, Bradford-White or

## Part 3. II.STALLATION

# 3.01 Sanitary Drain Pipe

Run as indicated on the drawings, of sizes shown, and to pitches shown. Pipe below grade shall be supported firmly and uniformly so that the correct pitch is maintained, and spigots are centured in bells. Oakum shall be firmly tamped in, leaving not less that i' for leading. Joints shall be made up with pipe joint compound applied to make threads only. Pipes and fittings shall be free from burrs and fits. No-hob fittings shall be installed in accordance with manufacturer's recommendations. Horizontal plastic pipe shall be supported at 4' o.c. max, and joints shall be made with pipe manufacturer's recommended cement to insure

### 3.02 Vents

Vents shall be run as shown on the drawings, and as required by State and local codes, and shall extend 2' above the roof, the full size of the vent.

### 3.03 Fixtures

Fixtures shall be set squarely against walls and floors by accurate setting of wall plates, floor flanges and rough piping. Joints between fixtures and adjacent surfaces shall be tightly sealed in a neat manner to prevent entrance of moisture and dirt. Wall-mounted fixtures shall have their wall plate hanger securely screwed to wood blocks, fastened between studs.

## 3.04 Hot and Cold Water Supplies

Not and cold water supplies shall be run approximately as indicated on the drawings, and as necessary to connect all fixtures. Piping shall pitch to allow for air relief and drainage. Provide drain fittings at low points, and Molverine 50561 ground key air cleed-off valves at high points.

### 3.05 Shock Absorbers

Shock absorbers and expansion join a shall be installed where shown, stainless steel or non-ferrous, factory charged, Josam or equal.

## 3.06 Stop Valves

Stop raives thall be installed in an accessible location at each fixture and urious shall be installed at the connection to each piece of equipment or fixture.

#### 3.07 Insulation

Insulate all hot water piping except fixture supplies; insulate all horizontal cold water piping above ceilings.

## 3.08 Testing

Figa lines shall be tested hydrostatically for thirty (30) minutes at a pressure 50% in excess of the pressure to which the pipe will normally be subjected, unless different test pressures are required by the Engineer, but in no care less than 50 lbs, per square inch (psi). Lesks or defective pipe disclosed by the test shall be repaired or replaced and the test repeated until all such piping shows tight. Water for tests shall be furnished and disposed of by the Contractor proposes to use in testing the lines shall be acceptable to the Engineer.

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#### SECTION 15800

### HEATING & VENTILATION

### Part 1: GENERAL

### 1.01 Related Documents

a. The general provisions of the Contract, including General and supplementary conditions and general requirements (if any) apply to the work specified in this section.

### 1.02 Description of Work

a. The extent of the heating and ventilating work is indicated by the drawings, schedules, and requirements of this section. The work includes all materials, equipment and labor required to obtain a complete heating system.

## 1.03 Related Work Specified Elsewhere

a,	Excavation, trenching and backfill for pipe.	Division 2
b.	Concrete work in cluding openings, chases, recesses and installation of embedded items.	Divisien 3
c.	hasonry work including openings, chases, recesses and installation of embedded items.	Division 4
d.	Carpentry; scribe, cope, trim and patch	
	where required.	Division 6
θ.	Range hoods.	Division 11
f.	Painting, except as specified herein.	Division 9
g	Flumbing and ventilation.	Division 15
h.	Electrical work: wiring and connections to equipment, except as noted herein.	
		Division 16

### 1.04 Quality Assurance

All material and equipment shall be new, of quality specified herein, and free of defects. Items of same category, i.e. valves, baseboard heating elements, circulators, louvers, temperature controls, etc., shall be products of single respective manufacturer. Items shall comply with current applicable standards as specified.

#### 1.05 Submittals

a. Provide submittals on following items in accordance with requirements of project in submittals shall consist of shop drawings, manofacture 's specifications, installation and maintenance instructions.

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Division 16

Gas burner unit riping and valves baseboard heating units Circulator Expansion tank

Insulation
Temporature controls
Mydronic Specialties
Poiler Fitting, Tank Fitting
Lanual Vents, Automatic Vents

## 1.06 Electrical Requirements

This heating contractor shall provide and mount motors for all equipment specified herein, and shall provide devices and wire equipment and controls required with heating equipment, including but not limited to gas-fired burner, heating water circulator, apartment thermostats and valves, and unit heaters and thermostats. The electrical contractor will provide a circuit and a junction box in close proximity to heating equipment requiring electrical work.

## 1.07 Drawings and Specifications

a. The drawings and specifications are complementary, and what is required by any one shall be as binding as if required by both. The drawings are diagrammatic only and there is no intent to show very detail. The drawings indicate required sizes and locations of piping, fixtures, and equipment, and are intended to show proper routing to conform to structure, avoid obstructions and preserve clearances. The Contractor shall review H & V drawings with other drawings of the Contract to determine that systems can be installed essentially as indicated. Exact locations shall be the responsibility of the Contractor. Inconsistencies in drawings or specifications, if found, shall be reported before proposals are finalized. Questions relative to interpretation or extent of drawings and specifications shall be referred to Architect/Engineer.

### 1.08 <u>Maintenance and Instruction innuals</u>

a. This Contractor shall submit to Engineer for delivery to Owner, one 82 x 11, 3-ring loose-leaf binder with manufacturer's data including installation, maintenance instructions and parts sheets on all items furnished.

### 1.09 Record Drawings

a. The Contractor shall maintain a scale drawing, showing the progressive installation of work, in its actual location, and showing the actual constructions, and shall, at the completion of the work, submit this drawing to the Architect to make a reproducable drawing for the Cumer's use.

#### 1.10 Guarantee

a. The Contractor shall warrant and maintain his work for one (1) year after the completion and acceptance of this work. If any defects in materials or workmanship appear within this time, unless due to faulty use of the apparatus, the Contractor shall, at his own expense, remedy such defect and pay for any damage to work resulting from such defects.

### Part 2: <u>LATERIALS</u>

## 2.01 Power Gas Conversion Burner

Provide unit of capacity indicated for existing H.B. Smith 2000 L boiler. The unit shall be a Midco DS-40 or approved equal. The unit shall be direct spark ignition of main flame type with instantaneous 100% safety shut-off, pre-purge, combination automatic gas valve with main pressure regulator and manual shut off. Contractor shall provide any necessary accessories required for installation of the unit. Unit shall be installed in strict compliance with manufacturer's installation instructions and applicable codes. Provide approved double swing barometric damper for flue.

### 2.02 Circulators

a. Capacities indicated, centrifugal in-line type, suitable for continuous operation at 220° F., cast iron casing, bronze impellor, mechanical seals, drip-proof rubber mounted, overload protected motor, flexible steel drive coupling. Boll & Gossett, Tacc, or approved equal.

### 2.03 Expansion Tank

a. Size and capacity indicated, ASAE construction for 40 psi working pressure and 250 maximum temperature, tank air charger and drain. Lanufactured by Bell & Gossett, Thrush, or approved equal.

## 2.04 Piping, Fittings and Hangers

- a. Hot water supply and return piping shall be hard copper, type L, with wrought copper fittings, or schedule 40 black steel pipe with cast iron fittings.
- Provide clevis type hangers where piping is suspended; hangers shall be copper or copper plated.

### 2.05 <u>Valves</u>

- a. Gate valves, 2" and smaller Jerkins Fig. 370
- b. Glove valves, 2" and smaller Jenkins Fig. 106A
- c. Check valves, 2" and smaller Jenkins Fig. 92A
- d. Lanufactured by Jenkins, Crane, walworth or approved equal.

#### 2.06 Hydronic Specialties

- a. Halancing fittings; Tight shut-off type, oronze construction. Sarco, Jun. airbanks or approved equal.
- b. Air vents: Autoritic air vents shall be float operated: Bell 2 Gossett # 7. Armstrong, Sunham V40A, or approved equal. Fanual vents 3 be brass, key operated.

- c. Pressure gauges; Bourbon tule type, 22" dials, operating range approximately midway on dial. 10. 1000 Ashcroft, US Gauge Larshaltown or approved equal.
- d. Cold water supply pressure reducing valve: 3/4' 10. 12, Bell & Cossett.

## 2.07 <u>Easeboard Ladiation</u>

- a. Provide IBR rated units of capacities indicated, complete with element hangers, enclosure, damper assembly, return pipe hangers, element saddles, ends, and corners.
- b. Elements shall consist of ½" dia. copper tube with bonded aluminum fins; enclosures shall be fabricated of 20 gauge rust resistant steel primed and with baked enamel finish. Enclosures shall be supported from continuous partial backplate with dust gasketing, and elements shall be supported on slide cradle saddles or hangers. Sterling Kom-Pak, Slant-Fin, Repco, or approved equal.

### 2.08 <u>Luctwork</u>

a. All ductwork shall be fabricated from galvanized sheet metal not less than 26 gauge for rectangular sections and 29 gauge for round sections. Provide Reprene coated fabric flexible connectors between all fans and ducts. Connectors shall be flame retardant with 25/50

#### 2.09 Louvers

a. Extruded alumines, 12 gauge blades and frames, stainless steel or aluminum fastenings, 45 degree blade with stormproof step; andized to 8 mils thickness, with insect screen in interior. Airstream auskin, Louvers and Dampers or approved equal.

#### 2.10 Wall Cap

a. LuTone Lodel 838, 846 or 845. Aluminum or galvanized steel construction.

#### 2.11 Insulation

a. Insulation for hot water piping shall by 1" thick, 7½ lb. fibrous glass with fire retardant kraft foul standard white jacket.

#### 2.12 Controls

- a. Provide thermostats, motor operated valves, relays and other accessories as required to obtain control as specified herein. The mounting of thormostats, relays and control accessories and wiring shall be provided under this Section. Controls shall be Honeywell, Taco, or equal.
- b. Before ordering any equipment, submit shop drawings including manufacturer's data and installation instructions on all components, and a complete wiring diagram for the proposed system.
- c. The submittals shall be reviewed and stamped by the heating contractor before submitting to the Engineer.

### Part 3: EXECUTION

## 3.01 Equipment

a. Locate equipment essentially as indicated and knstall per manufacturer's instructions. Equipment still operate without objectionable noise or vibration. Check a igner toperation thoroughly and make final adjustments as a for proper operation.

## 3.02 Piping

- a. Screwed piping shall be cut, threaded and regred in accordance with good trade practice. Thoroughly clean all pipe before assembly and protect pipe openings as required to maintain assembled piping in clean condition.
- b. Copper piping shall be cut square without severe crimping, reamed to full inside diameter, and thoroughly cleaned before soldering. Solder with 50-50 lead tin solder and resin flux; wipe all joints clean of solder. Provide diplectric rittings where different pipe materials are joined.
- c. Install piping with proper fittings where required. Use tubing bender for bends, avoid bending or springing pipe into position. Provide guides, anchors, and supports as required to allow expansion and contraction to occur without undue strain, ribration or noise. Fitch all hot water supply and return mains slightly upward in direction of flow where possible. Provide vents and drains where required to properly vent and drain system.

### 3.03 Duction

a. Coordinate location of ductwork with other trades to avoid interference. Duct fittings shall be fabricated to provide smooth, clean nir flow. Luct joints shall be mechanically fastened and taped to make air tight. Support ducts in approved manner, free of sags,

### 3.34 Insulation

y this way

a. Install insulation in accordance with manufacturer's instructions. Butt and seal all joints, neatly; exposed butt ends shall be covered with jacket material. Insulate all boiler room hot water supply and return piping, including all fittings, all exposed piping risers in occupied spaces, or elsewhere as indicated.

### 3.05 Automatic Temperature Controls

s. The burner shall operate to maintain operating aquastat setting. The operating aquastat on the boiler shall be cutdoor reset type with 1.0 to 1.0 outdoor to indoor ratio with adjustable differential setting set for 200.

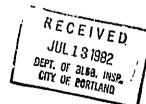
- b. Primary circulate in boiler road the rate has a H-O-A switch. On automatic an outside early that a track of the circulators when outside temperative and the circulators are circulators.
- c. Apartment circulators and cabinet by the service in response to respective thermosty

## 3.06 Palance and Testing

- a. Upon completion of work and when system is in full working order, balance water system as required to obtain relative hearing of space.
- b. Perform an efficiency test or boiler-burner unit and forward test results to Engineer. Test results shall indicate stack temperature, CO2 reading, smoke test results, and overall b 'ler-burner unit efficiency.

## 3.07 Valve Tags and Chart

a. I rovide numbered metaled tags for all valves and framed in glass valve hart indicating number, function, and location



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#### SECTION 16000

#### ELECTRICAL

### Part 1: GE ERAL

## 1.01 General Provisions

a. The General Conditions, and Special Conditions of Division 1 of these specifications apply to the work of this Mection.

## 1.02 Scope of Work

- a. The work to be performed under this Section of the Specifications shall include all labor, materials, equipment, transportation, construction, facilities, and incidentals necessary for the proper execution and completion of all Electrical Work as shown and indicated on the Contract Drawings, and/or herein specified with the intent that the installation shall be complete in every respect, ready for use.
- b. Ainor details not usually shown or specified, but necessary for proper installation and operation, shall be included in the Contractor's estimate, the same as if herein specified or shown.
- c. The extent of the work under this Section is indicated on the drawings and as herein specified. The work includes, but is not limited to, furnishing and installing the following:
  - 1. Underground feeders from Utility Company equipment to main switchgear, including necessary risers, etc.
  - Tistribution system for lighting and power including the necessary feeders, branch circuits, lighting fixtures, control switches and receptacles, notors and other power loads.
  - 3. A complete building ground system and special grounds as required or noted.
  - 4. Lighting fixtures and lamps.
  - 5. Eapty raceway for the telephone as indicated.
  - 6. Smoke detection system.
  - 7. Television system, as indicated.

## 1.03 work Specified Under Other Sections

- a. The following work is necessary for the satisfactory operation of this system, but is not included as part of this Contractor's work and will be done under separate contracts:
  - 1. Excavation and backfill for underground utilities.
  - 2. All motors, unless otherwise specified, shall be furnished and set in place by other contractors.

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- Telephone system wires, cable, equipment and instruments will be furnished by the Telephone Company.
- 4. Wiring of boiler-burner controls, circulator control, thermostat
- 5. Painting.
- 6. Ventilation duct installation.

# 1.04 Drawings and Specifications

The drawings and specifications are complementary, and what is called for by one shall be as binding as if called for by both. The drawings are diagrammatic, and are intended to show the general arrangement and extent of the work to be done and do not show all the required fittings, offsets, hangers, etc., required to execute the work properly. The final location and arrangement of all parts shall be determined as the actual work progresses, so as to conform in the best possible manner with the surrounding work, and with the general intent of the drawings and specifications.

## 1.05 Codes, Fermits and Fees

- a. This Contractor shall give all necessary notices, including electric and telophone utilities, obtain all permits, and pay all government taxes, fees, and other costs, including utility connections or extensions, in connection with this work; file all necessary plans, prepare all documents, and obtain all necessary approvals of all prevernmental departments having jurisdiction; obtain all required c rtificates of inspection for his work and deliver same to Architect before request for acceptance and final payment for the Work.
- b. Work and naterials shall conform to the latest rules and regulations
  - 1. National Electrical Code
  - National Safety Code and OSNA Standards where applicable.
  - Local, State and Federal laws, regulations and codes. Local Utility Company rules and regulations.

  - Applicable iiE A Standards. Applicable UL Standards.

## 1.06 Workmanship and Naterial in General

- a. All work shall be performed under supervision of a licensed master electrician and by worken who are competent and properly equipped with necessary knowledge, skill, tools and materials to to a firstclass job, and small present a neat mechanical appearance when
- b. Protect all walls, floors, ceilings, etc., while installing the work, and protect the fixtures, appliances, etc., from damage after their installation and until work has been accepted.

- c. All equipment, apparatus, appliances and fixtures shall be new and installed, connected and adjusted in strict accordance with the manufacturer's recommendations and instructions.
- d. Where no specific make of materials, apparatus or fixture is mentioned, any standard product of a manufacturer regularly engaged in the production of such equipment may be furnished, provided it conforms to the applicable codes and standards. Where a specific make is mentioned, it shall be interpreted as establishing a standard of quality and shall. not be construed to limit competitive products. This Contractor may substitute any product which, in the judgment of the Architect is equal

# 1.07 Equipment Schedules and Shop Drawings

a. As soon as possible after the execution of the contract, this Contractor shall submit for approval to the Architect through the General Contractor six (6) copies of shop drawings of those items of material and equipment which he intends to incorporate in the work. No material or equipment shall be purchased for the work until the list is approved by

# 1.08 Cooperation With Other Trades

a. Where the work of this Contractor is to be installed in close proximity to work of other trades, or where the work will interfere with the work of other trades, he shall assist in working out snace conditions to make a satisfactory adjustment. If this Contractor installs his work before coordinating with work of other trades, he shall make necessary changes in his work to correct the condition without extra charge.

## 1.09 Electrical Connections

a. Except as indicated or specified herein, this Contractor shall provide and install power wiring to all motors and electrical equipment complete and ready for operation including disconnect switches and fuses. The wiring of boiler-burner unit, circulator and temperature controls, and domestic water heater will be by Division 15.

## 1.10 Temporary Electrical Service

a. This Contractor shall provide temporary wiring for use by all trades throughout the building, consisting of a 20 amp, 120 V source available to all areas through a flifty foot extension cord, and a 200 watt lamp outlet or equivalent for each 1000 square feet of construction area.

### 1.11 Cutting and Patching

- a. This Contractor shall advise the General Contractor of locations and sizes of all openings and chases, and furnish and locate all sleeves and inserts required for the installation of the electrical work.
- b. No structural members shall be cut without the approval of Architect. All patching shall be performed in a neat and workman-like manner acceptable to the Architect.

### 1.12 katerproofing

a. This Contractor shall provide all flashing, caulking, and sleeves required where his items pass through the outside walls or roof. The waterproofing of the openings shall be made absolutely watertight. The methods of installation shall conform to the requirements of Division 7, "loisture Control" and/or meet the approval of the Architect.

### 1.13 Identification

- a. Equipment: All equipment, such as switchboards, panels, cabinets, transformers, etc., furnished by this Contractor shall be permanently labeled, in an approved manner.
- b. Wire and cable: All wi e and cable shall be color coded and shall be labeled with tags or tape at each end giving use and circuit number.
- c. Control Devices: All devices controlling equipment such as switches, disconnects, starters, time switches, special light switches, volume controls, dimmers, etc., shall be clearly labeled as to what they control.
- d. Oversurrent Devices: In panels, etc. shall clearly indicate what they feed. This shall be accomplished by means of typewritten panel schedules mounted inside of the front cover doors or laminated engraved plastic nameplates.

#### 1.14 Testing

a. As the various parts of the work are completed, the Contractor shall make preliminary insulation resistance tests to insure that the system is free from short circuits and accidental grounds and that all connections, switches, controls and equipment are in proper operating condition. Minimum dielectric strength shall be 1 legohm.

#### 1.15 As-Heilt Frawings

a. The Contractor shall maintain a scale drawing, showing the progressive installation of his work, in its actual location and showing the actual construction and shall, at the completion of the work, submit this drawing, together with all equipment instruction nanuals and any other documents pertaining to the equipment, appliances, fixtures, etc., installed or wired under this Section, to the Architect for the Camer's use.

#### 1.16 Guarantee

- a. The Contractor shall warrant and maintain his work for one (1) year after the completion and acceptance of this work. If any defects in material or workmanship appear within this time, unless due to faulty use of the apparatus, the Contractor shall, at his own expense, remedy such defects and pay for any damage to other work resulting from such defect.
- b. The Contractor shall furnish certificates to the Owner and Architect to the effect that he has complied with all Federal and State laws and local ordinances which govern his work.

## Part 2: HACDUCTS

## 2.01 Conduit and Fittings

- a. All wiring where required shall be in National Electrical Code approved raceways sized as shown on the Drawings, or, if not sized they shall be in accordance with the requirements of the Lational Electrical Code, except that no conduit smaller than 3/4 inch shall be allowed on home runs.
  - All raceways shall be concealed unless otherwise indicated, raceways may be exposed in Electric Rooms.
- b. Rigid Steel Conduit shall be used in or under concrete construction and in moist or wet areas.

#### 2.02 Wire and Cable

NEASTAGE SALIQUA

- a. All wire and cable shall comply with the latest requirements and specifications of the NFPA and/or the Insulated Power Catle Engineers Association (IPCEA) and shall be as manufactured by Triangle, General Cable, General Electric, Carol, American or approved equal, unless otherwise specified or indicated.
- b. All conductors used in the wiring system shall be softdrawn copper wire having conductivity of not less than 98 percent of that of pure copper, unless otherwise indicated or specified. Wire No. 10AWG and smaller shall be solid and wire No. 8AWG and larger shall be stranded.
- c. All wire and cable shall be stamped approximately every two feet to indicate voltage, type, temperature rating, UL listing, manufacturer's name, size, etc.
- d. All cable and wire shall be coo volt; not less than No. 14AWG and have type insulation as follows:

- e. All wiring, internal to fixtures, shall be minimum No. 14ANG, Type AF or NF (150 degrees C) with minimum 300 volt insulation.
- f. In wood frame construction, and above ceilings, it is intended that Type NR. or NR.C cable be used, in accordance with the requirements of the National Electrical Code, provided it is concealed, protected from damage and has a thermoplastic outer jacket.
- g. The range cable shall be No. 6AWG aluminum conductor or No. 8AWG copper complete with an insulated neutral. Type SE cable will not be allowed.

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h. Aluminum conductors, No. 2AWG and larger, will be allowed for use as service entrance conductors and panelboard feeders. Where aluminum conductors are not indicated on the drawings, the voltage drop characteristics and current carrying characteristics of the aluminum conductors shall be equivalent to the copper conductors indicated on the drawings.

## 2.03 Cutlets and Boxes

- a. All boxes shall be one piece galvanized steel or non-metallic, of proper size and shape for conduits entering them; UL and National Electrical Code approved; installed so that device and/or cover plates shall be tight and plumb with wall finish; have unused openings closed with "knock-out" closures; be weatherproof for exterior or wet locations; and be securely fastened in position.
- b. Cutlets as shown on the drawings, but not specified, shall be coordinated to the equipment for which they are provided.
- c. Outlet boxes in wet locations or exterior locations shall be threaded cast device toxes complete with vaporproof gaskets.

# 2.04 Switches, Receptacles, and Wiring Devices

- a. Wiring devices shall be manufactured by Arrow-Hart, Bryant, Leviton, or equal.
- b. Wall switches controlling a lighting load of 300 watts or less shall be 15 ampere, toggle-type, 277 volt rated. Wall switches controlling more than 300 watts shall be 20 amnere, toggle-type, 277 volt rated.
- c. Convenience outlet receptacles for interior use shall be duplex grounding type 15 ampere. Single duplex receptacles wired to a single circuit shall be 20 ampere rated.
- d. Flates for switches, receptacles, junction boxes, etc., shall be smooth line plastic design for fluch mounting and shall be whi in color.
- e. Ground fault receptacles shall be Square "D" or equal.

#### 2.05 Disconnects

a. Furnish and install, where required, General Duty fusible or non-fusible safety switches as manufactured by Square "D", Westinghouse, or General Electric.

#### 2.06 Panelboards

- a. Breaker panelboards shall have mains, main circuit breakers and circuits as indicated on the drawings and be designed for one phase, three wire, 60 hertz service rated for 120/240 volts.
- b. Panelboards shall be flush mounted. Panelboards shall have full size neutral bar and separate bonding bar. Fanelboards shall be installed with top up 6'-0". Each panel door shall be provided with latch and typed directory.

c. Circuit breakers for panelboards shall be toggle-type, thermal-magnetic, quick-make, quick-break, (plug-in) type with silver-plated contacts and minimum thickness of 1" per pole. Provide common trip for multipole circuits. Panels for 120/240 volt service shall have breakers with 10,000 ampere Ris minimum interrupting rating at 240 volts.

### 2.07 Light Fixtures

- a. Provide all light fixtures complete as hereinafter specified and/or as shown on the Drawings.
- b. All fixtures shall be; UL approved and labeled; furnished with proper outlet boxes, hangers, etc., securely fastened to outlet boxes; furnished complete with lamps of proper size and type required or as specified; complete with supports, pendants, canopy extensions, etc., wired with type AF or TF fixture wire; furnished with plaster frames and light tight gaskets when recessed as required; and have specified finish.

# 2.08 Lamps, Ballasts, Accessories

- a. All lamps shall be furnished and installed by the Contractor.
- b. Ballasts for fluorescent fistures, except as specifically indicated, shall be high power factor type, CEM certified, ETL approved for rapid start quiet operation, "A" sound rating, Class "F".

## 2.09 Telephone Service and Conduit System

- Furnish and install underground telephone service conduit risers as indicated.
- b. Furnish and install a  $24\text{"}\times36\text{"}\times3/4\text{"}$  plywood backboard for mounting telephone equipment.
- c. Furnish and install a #6AWG copper ground wire from telephone entrance to the building ground or nearest metallic cold water pipe.

## 2.10 Service L'ain Circuit Breaker Disconnect

- a. Circuit breaker shall be manually operated, trip free and be designed so that all poles open simultaneously. Circuit breaker shall be located in the group metering enclosure. Tripping mechanism shall be thermelly-magnetically operated, open instantaneously on short circuits and have time delay on overloads.
- b. Circuit breaker shall be Westinghouse, Square "D", Arrow-Hart, or General Electric rated for service characteristics as shown on the drawings and have an interruption rating of not less than 10,000 FMS symmetrical amperes at the design voltage.



- a. Provide group metering equipment as indicated and specified herein. i eter units shall be provided with individual covers for each meter position. All compartments containing unmetered circuits shall be provided with a sealing means. Letered and unmetered circuits shall be separated by steel barriers. All components shall be UL listed for use in a multi-metering assembly, and in compliance with Utility Company requirements.
  - 1. Meter sockets shall be rated for 125 amperes, except as indicated otherwise.
  - 2. Circuit breakers for moter sockets shall be two poles. Ratings shall be as shown on drawings. Breakers shall be provided with a means to lock-off the circuit breaker.
  - 3. The Utility Company will provide the neter.

# 2.12 Door Chime System

a. This Contractor shall furnish and install where shown on the drawings, a door chime system complete. The Chime shall be Nutone No. LB-12; pushbutton shall be Nutone No. PB-8L; transformer shall be sized to

## 2.13 Smoke Detector System

- a. Each dwelling unit shall have where indicated a smoke detector, Simplex #4259-19 or equal.
- b. The detectors shall operate from a 120 volt power supply, and shall have an indicator light. The detector small connect to the system wiring through a plug-in connector and to be of such design that dust and insects larger in size than 200 microns shall not have free access to the smoke detector. Sensitivity shall be factory set to Underwriter's Laboratory Standards.

## Part 3: EXECUTION

# 3.01 <u>Laterials and Workmanship</u>

a. The existing service entrance wire and conduit shall be removed. All existing material removed and not scheduled or indicated to be re-used, shall become the property of the Flectrical Contractor, and shall be removed from the site.

# 3.02 Receivays and Fittings

- a. Outlots shall be installed in the locations shown on the departures.

  The Contractor shall study the general building planer in relation to the spaces surrounding each outlet in order that his work may be the other work may then processed. rit the other work required by these specifications. When necessary, rit the other work required by these specifications. When necessary, the Contractor shall relocate outlets so that, fixtures or other fittings will be symmetrically located according to room layout and will not interfere with other work or equipment. Boxes shall be installed in a rigid and satisfactory manner, either by wood screws on wood work, (wall mounted boxes in wood construction may be nailed) expansion shields on masonry, or machine screws on steel work. Fire alarm and telephone outlet boxes shall be not less that 4" square fitted with appropriate covers where necessary, to set flush mount i. One piece gang boxes not less than 2" deep shall be utilized where necessary.
- b. Conduits shall be kept at least 8 inches from parallel runs of flues, Conduits shall be kept at least o inches from parallel runs of flues, steam pipes or hot water pipes. Exposed runs of conduit shall be installed with runs parallel or perpendicular to walls, structural members or intersections of vertical planes and ceilings, with turns consisting of cast-metal fittings of symmetrical bends. Bends shall be made with an approved conduit-bending machine. Conduit which has been crushed or deformed in any way shall not be installed.

### 3.03 Conductors

Conductors shall be continuous from outlet to outlet, and no splices shall be made except within outlet of junction boxes. Junction boxes may be utilized wherever required or a shown on the drawings. Wire connectors, insulating material of solders pressure connectors, properly taxed, shall be utilized for all splices in orders. properly taped, shall be utilized for all splices in wiring.

## 3.04 Equipment Connections

Equipment connections shall be made with <u>liquid tight</u> flexible metal conduit. Controllers for motor, disconnect switches and all control, protective, and signal devices for motor circuits shall be connected and left in operating condition. The number and size of conductors between motors and control or protective apparatus shall be as shown on the plans or recommended by the manufacturer of the apparatus. Where equipment is furnished and installed by other trades for connection to the electrical system, this Contractor shall supervise connection to the electrical system, this Contractor shall supervise such installation. All work shall conform to the National Electric Code requirements.

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# 3.05 Grounding System

- a. The entire electrical installation shall be provided with a system ground connected to the water service entrance pipe and also connected to a 5/8" x 8'-0" copperweld steel ground rod. Installation shall be 250-95 (N.E.C.).
- b. Provide a separate grounding wire to all outlets. Ground wire secured under conduit bushings or cable clamps will not be permitted.

# 3.06 Instructions to Owner

At the completion of the work, this Contractor shall turn over to the Engineer, for the Owner's use, three (3) sets of operating and maintenance instructions of all equipment. The Contractor shall explain and demonstrate the operation of each system to the Owner's

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