Location of Construction:	Owner:	Phone:		Permit No:
659-687 Warren Ave	Turner Barket	Assoc.		971011
Owner Address: One India St Ptld, ME	Lessee/Buyer's Name:	Phone: Busines	ssName:	PERMIT ISSUED
Contractor Name:	Address:			Permi Issued:
Dahlgren Construction	Address: 412 U.S. Rt 1 Yarmo	Phone: 04096	846-3505	
Past Use:	Proposed Use:	COST OF WORK:	PERMIT FEE:	SEP 2 5 1997
		\$ 100,000.00	\$ 520.00	
Retail/Offices	Same	FIRE DEPT. Approved	INSPECTION:	CITY OF PORTLAND
		☐ Denied	Use Group Type: 20	
			BOCA92101	Zone: CBL:
Proposed Project Description:		Signature: WW7	Signature:	8-4-315-A-001
110posed 110jest Bescription.		PEDESTRIAN ACTIVITII	ES DISTRICT (P.A.M.)	Zoning Approval
		Action: Approved		Special Zone of Reviews?
Reroof structure			with Conditions:	· □ Shoreland
WELOOL STIUCTURE		Denied		
		Signature:	Date:	☐ Flood Zone ☐ Subdivision
Permit Taken By:	Date Applied For:		Date.	☐ Site Plan maj ☐minor ☐mm ☐
Mary Gresik	23	September 1997		
1. This permit application does not preclude the	Applicant(s) from mosting applicable State	17.1 1 1		Zoning Appeal □ Variance
		e and rederal rules.		☐ Variance
2. Building permits do not include plumbing, se				☐ Conditional Use
3. Building permits are void if work is not started	d within six (6) months of the date of issuar	nce. False informa-		□Interpretation
tion may invalidate a building permit and sto	pp all work			□ Approved
		la A		□ Denied
				Historic Preservation
		79	190x.	☑Not in District or Landmark
			·0/, 00	☐ Does Not Require Review
				□ Requires Review
				Action:
	000000000000000000000000000000000000000		1/2	
Thereby certify that I am the owner of reach 1 - 541-	CERTIFICATION			□Appoved
I hereby certify that I am the owner of record of the	e named property, or that the proposed work	(is authorized by the owner of i	record and that I have been	☐ Approved with Conditions
authorized by the owner to make this application a if a permit for work described in the application is	is his authorized agent and I agree to confo	orm to all applicable laws of the	is jurisdiction. In addition,	Denied 1
areas covered by such permit at any reasonable ho	our to enforce the provisions of the code(s)	applicable to such permit	ve the authority to enter all	Date: 9/24/9/
1 = 10	== and provious of the code(s)	approache to such permit		1 77
Alunia & Carl				1 2 %
SIGNATURE OF APPLICANT Stave Dunn	ADDRESS:	XXX 23 September		1 184
Signature of APPLICANT Steve Dunn	ADDITIOS;	DATE:	PHONE:	
RESPONSIBLE PERSON IN CHARGE OF WORK	K, TITLE		PHONE:	CEO DISTRICT
White-Pe	rmit Desk Green-Assessor's Canary-	_N PW Pink_Public Eila II	voru Card Inchastas	

Location of Construction: 639-687 Warren Ave	Ow	ner: Turver Barks	it Assoc.	Phone:		Permit Ng: 7 1 0 4 4
Owner Address: One India St Ptld, ME 0	Lessee/Buye	er's Name:	Phone:	Busines	ssName:	DEDMIT 100UED
Contractor Name: Dahlgren Construction	Address:	12 U.S. Rt 1 Yer	Phone			Per REBMIT ISSUED
Past Use:	Proposed Us		COST OF WOR	K:	PERMIT FEE: \$ \$20.00	SEP 2 5 1997
ketail/Offices	Same		FIRE DEPT. I Signature:	Approved Denied	INSPECTION: Use Group: Type: Signature:	CITY OF PORTLAND Zone: CBL: 315-A-001
Proposed Project Description:				CTIVITII	ES DISTRICT (P.A.D.)	Zoning Approval:
Reroof structure				Approved Approved Denied	with Conditions:	☐ Shoreland
Permit Taken By: Mary Gresik	Da	te Applied For:	23 September 19			☐ Site Plan maj ☐minor ☐mm [
2. Building permits do not include plumbing, sep 3. Building permits are void if work is not started tion may invalidate a building permit and stop I hereby certify that I am the owner of record of the authorized by the owner to make this application a if a permit for work described in the application is areas covered by such permit at any reasonable ho	named propes his authorizissued, I certiur to enforce	CERTIFICATION rty, or that the proposed vector and I agree to comply that the code official's	work is authorized by th onform to all applicable authorized representat le(s) applicable to such	e laws of th ve shall ha	nis jurisdiction. In addition, ave the authority to enter all	, □ Denied
//						
RESPONSIBLE PERSON IN CHARGE OF WORK	C, TITLE				PHONE:	CEO DISTRICT

White-Permit Desk Green-Assessor's Canary-D.P.W. Pink-Public File Ivory Card-Inspector

COMMENTS

19/30	Work	appears	completal per plan (DC)	
			Inspection Record	
			Type Dat Foundation:	te
			Framing:	
			Plumbing: Final:	
			Othory	

ADDRESS (**REASON FOR PERMIT BUILDING OWNER** CONTRACTOR: **PERMIT APPLICANT:** CONSTRUCTION TYPE **USE GROUP BOCA 1996** CONDITION(S) OF APPROVAL This permit does not excuse the applicant from meeting applicable State and Federal rules and laws. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection) Precaution must be taken to protect concrete from freezing. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from 5. adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of ½ inch gypsum board or the equivalent applied to the garage means of ½ inch gypsum board or the equivalent applied to the garage side. (Chapter 4 Section 407.0 of the BOCA/1996) All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA 6. National Mechanical Code/1993) U.L. 103. 7. Sound transmission control in residential building shall be done in accordance with Chapter 12 section 1214.0 of the city's building code. Guardrail & Handrails A guardrail system is a system of building components located near the open sides of elevated 8. walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42", except Use Group R which is 36". In occupancies in Use Group A, B, H-4, I-1, I-2 M and R and public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. 9. Headroom in habitable space is a minimum of 7'6". Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 3/4" maximum rise. All other Use group 10. minimum 11" tread, 7" maximum rise. 11. The minimum headroom in all parts of a stairway shall not be less than 80 inches. 12. Every sleeping room below the fourth story in buildings of use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension shall be 20 inches (508mm), and a minimum net clear opening of 5.7 sq. ft. 13. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units. 14. All vertical openings shall be enclosed with construction having a fire rating of at lest one (1)hour, including fire doors with self closer's. 15. The boiler shall be protected by enclosing with (1) hour fire-rated construction including fire doors and ceiling, or by providing automatic extinguishment. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the 16. provisions of the City's Building Code Chapter 9, Section 19, 920.3.2 (BOCA National Building Code/1996), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations): In the immediate vicinity of bedrooms In all bedrooms

In each story within a dwelling unit, including basements

BUILDING PERMIT REPORT

In addition to the required AC primary power source, required smoke detectors in occupancies in Use Groups R-2, R-3 and I-1 shall receive power from a battery when the AC primary power source is interrupted. (Interconnection is required)

- 17. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type.
- 18. The Fire Alarm System shall be maintained to NFPA #72 Standard.
- 19. The Sprinkler System shall maintained to NFPA #13 Standard.
- 20. All exit signs, lights, and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023. & 1024. Of the City's building code. (The BOCA National Building Code/1996)
- 21. No construction or demolition work shall begin until you have obtained permits for dumpsters or containers. A work Stop Order shall be issued if this requirement is not met.
- 22. Section 25-135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
- 23. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification to the Division of Inspection Services.
- 24. This permit does not excuse the applicant from obtaining any license which may be needed from the City Clerk's office.
- 25. Ventilation shall meet the requirements of Chapter 12 Sections 1210. of the City's Building Code.
- 26. All electrical and plumbing permits must be obtained by a Master Licensed holders of their trade.
- 27. All requirements must be met before a final Certificate of Occupancy is issued,
- 28. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code. (The BOCA National Building Code/1996).

Ventilation of spaces within a building shall be done in accordance with the City's Mechanical Code (The BOCA National Mechanical Code/1993).
 This set mit 15 being 1850 and 1950 and 19

Project Ks	mit 15. Deing tred professib			
			1	,
				2014 CH 2014
•				har I falleng fagte f
		The at America will turk to be the	legal arenaritiena en la	with early and being the transport to the
	•			900000
to a strong and the strong and the strong and	andra (1975) and a second of the second of t	optikari provinsis – 1972. Sekili Miller (M. V.) se sekili Miller (M. V.) sekili provinsis (M. V.) Lago provinsi je sekili provinsi sekili provinsi sekili provinsi sekili provinsi sekili provinsi sekili provin		la la companya da la

Bigina fili a best filoto qual a proper a mangra a la bisaran ana amahalar ing Malaka mangra bangga mangrapa bi

ale mose than 40 inches (3.51 finas) shows the fivon. All cercus or course whether fivon steeping norms that I distinguished see class specific disconduct of 74 inches (6.10 cm). The existence and class opening width disco

Apole granteeth shall have access to to a to a support, names and no access at any of agrees. A single and is acceptable, when it seem directly from the assumence to the building extentor with no accommissions to other apartment unlit.
All sentiant consistent shall be enclosed with construction beying a fire rather of at low one (1) bour, including the doors of

ado encallo calebro era deservir deserviración en como de la compete e altre estada e pol

This is been been 500 to measurem and 3-30 th flowers in the administration

and only the fact and of ion their provider of a matter that the ion of the first that

P Sanfire Hoffses, Code Enforcement

cc: Lt. McDougall, PFD is one year to avest finist in the state of a record of

ALEXANDER HUTCHEON ASSOCIATES

ENGINEERS

519 CONGRESS STREET PORTLAND, MAINE 04101 TELEPHONE 207 774-0484

September 19, 1997

Mr. Steve Dunn
Dahlgren Construction Company
20 U.S. Route One
Yarmouth, Maine 04096

Re: Roof capacity; Value House Building, Portland, Maine

Dear Steve:

At your request, I have reviewed the framing plans for the former Value House Building, 659 to 687 Warren Avenue, Portland, Maine, to determine whether the existing framing can support new steel roof panels, installed over the existing roof system, on a plywood substrate.

As shown on the enclosed calculation sheets 1, 2 and 3, the steel purlins are adequate for this additional load, the original dead load, and the currently-required 42 psf. snow load.

It is my opinion that the 2.06 per cent increase in the load to the frames is within the acceptable margin of variation between the required section and the section which was actually provided.

Your questions and comments regarding this report are welcome.

Very truly yours,

ALEXANDER HUTCHEON Associates,

Engineers

Alexander Hutcheon, P.E.

President

Enclosures: Calculation sheets 1, 2 and 3

Steel Span "Cold Formed Section" Properties Table

DAHLGREN CONSTRUCTION

ALEXANDER HUTCHEON ASSOCIATES ENGINEERS

519 CONGRESS ST. PORTLAND, MAINE 04101 TEL 207-774-0484

CAPACITY OF ROOF FRAMING: VALUE HOUSE BUILDING . STEEL SPAN BUILDING, 1970

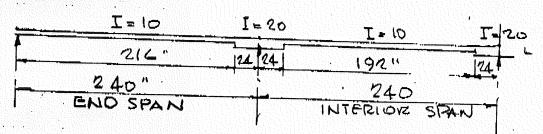
MODE PURLINS: 8" DEEP x 14 GA., COLD-FORMED DESIGNATION 4 Z 21.97 ; **SEATTACHED** WEIGHT = 3.406 LBS. PER FT. / STEEL SPAN"COLD I= 10.0; S=2.48 FORMED SECTIONS" 50,000 KSI YIELD; Fb= .6(50,000) = 30,000 PSI SPAN = 201; SPACING = 4 FT. OVERLAPPED 2'EACH SIDE OF BEAMS

ROOF LOAD : SNOW 42 PSF.

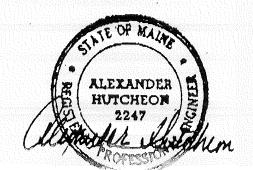
DEAD:

ROOF SHEETS 1.09 PSE PLYWOOD 1,50 NEW SHEETS 1.09 INSULATION 3.00 COLLATERAL 2.00

CHECK RENDING STRESS AS FULLY CONTINUOUS BEAM, WITH 2'OVERLAP



SEE NEXT SAT. FOR CAPRY OVER FACTORS STIFFNESS FACTORS FIXED END MOMENTS AT UNIT LOAD MOMENT DISTRIBUTION



DAHLGREN CONSTRUCTION

ALEXANDER HUTCHEUN ASSOCIATES ENGINEERS
SINT. 2 BE 3 PORTLAND, MAINE 04101

W To						a/) /97	> P	DRTLAND, MAINE 04101 TEL 207-774-0484
MOMENT DI	シャビル	UFION	. Cor	コナールに	1005 F) 1 1 7 C I K I	5		LENGTH=? PAIT SP
HEWLITT-PA	SKARL	> HP-41	22 x	/ARY I	PRO	GRAM			248.0006 No. Segrs=?
	Ϋ,	240"		ا <i>ا</i>	رد ا	(4)	· (5	29.000 6
(e				40"		40"		40"	UNIF W? 1/0 1.0000
C.O. FACTORS K:	1.5714		15635		5.5635		4941	.5714	I EA. SEG?1/0
žK	1744	. 416	.2171		.2121		.2016	.1744	0.0000 IX=?
DF.K/EK	1.0	.4873			742		37		20.0000 NO. I CONST?
FEM ! LINIT LOAD				,5			.4873	1.0	2.0009
	+4444			-5190 —	-5170		-5 5 86	-4444	IX=? 10.0000
, •	- 95	-2539		+114	1		+193	+4444	NO. I CONST?
	+ 95	+1237		1 1/ 😽	-		- 2539	- 95	16.000 1X=?
	-611	- 54		+734	+734		+ 1237	+95	20.0000
	+611	+26					+26	-GII	MO. I CONST? 2.8888
	0	- 6723	-6723	-4342	4340	- \^	-6723		FA8=-5,190.0000
						Ψ,το	-6185	0	FBR≃-5,198.8888
BEACTION	120	120	120	120	120	120	120		KAB=0.2121
Δ $_{ t P}$	- 28		+9.92		-9.92	+ 9.92		120	
FINAL 12	92	148	129.92	11008	110.00	124.92		92	KBA=0.2121
4 1 4-								(COFAB=0.5635
Mt, 1702	V=0	e 92"	FRom (\mathbb{C}					COFBA=0.5635
	W	92(92) - 1(9	2)2(.5)					
		= 423	S "" /Ur	SIT LOD	7 D				LENGTH=? (CND 5P41) 240.0000
/x=	A 4						4 21		NO. SEGMS=?
MZ16, 1702.	: ///	\ = 92(216)-	1 (216)	2(:5)	= -34	56 ""/L	в.	20.0000 UNIF W? 1/0
[경화[경화화조] 시작 [사람 [사람 [사람]] - [사람 [사람]] [사람 [사람 [사람]] [사람 [사람 [사람]]] [사람 [사람 [사람 [사람 [사람]]]] [사람 [사람 [사람 [사람 [사람 [사람 [사]]]]] [사람 [사람 [사]							•	1	1,0000
M24 2 TO 3	M	(= \'20((24)-	1(24)7	(.5)-6	723=+	4131"*/	₿.	I EA. SEG?1/0 0.0000
PURLIN LOAD :	A (A	0 L & 2	^\ . · · · · · · · · · · · · · · · · · ·		2.	! =:/			IX=? 10. 880 0
									' NO. I CONST?
Mmax = 17.18	1101	221-1		-, H±/.					18. 000 0 IX=?
	2/2.	48) = 1	10,00	, 1 / 1	. b				29,0000
¥.	. 119	5.507/	4 0/	-02	027	0-1-0			NO. I CONST? 2.0000
						1731 < 2	10,000 pg	h ok	FRB=-4,444.3308
MMAX AT 24	tt ez -	7.18(41	31) = 7	70.Q.T)("#				FBA=-5,585,5147
	= 2.ª	FB							KAB=0.1744
- f _E	, = 7c	,911/2	. 48 =	28,6	17 < 5	 రావ్యం	6 Er		
									KBA≃0,2016
M' MAX, 1 TO 2) e (4232 (17.18).	= 72 :	706"	+ 5.	= 2.48		COFAB=0.5714
	7	7706/	7 10	- 70	<u> </u>	•	- ' 1 ' De		00000-0 (0.4)

'97-09-22 06:29 A HUTCHEON ASSOCS.

DAHLGREN CONSTRUCTION
VALUE HOUSE BUILDING

ALEXANDER HUTCHESN ASSOCIATES
ENGINEERS 519 CONGRESS ST,
SHT. 3 & F 3 PORTLAND, MAINE 04101
9/19/97 TEL 207-774-0484

 $M^{+} SPAN 2-3: V \cdot O AT 129.92" FROM 2$ $M^{-} 129.92(129.92) - 1(129.92)^{2} 6723$ = 1716.6 $f_{b} = 1716.6 (17.18)/2.48 = 11892 PS1., <30,000$

INCREASE TO FRAMES :

١,٠

ORIG. PUZLIN LOAD: ROOF SHEETS 1.09

INSULATION 3.00

COLLATERAL 2.00

5.09

4(42+5.09)+3.41= 202.0 RF.

NEW PURLIN LOAD = 206.17 PLF

INCR. - 206.17-202 - 0.206 = 2.06%

THIS IS WITHIN ACCEPTABLE DESIGN CRITERIA.

ENGINEERS SIAT. 2 BF 3 9/19/97

519 CONGRESS ST. PORTLAND, MAINE 0410 TEL. 207-774-0484

						9/10	2 0 = 1	3 p	ORTLAND, MAINE 04101 TEL. 207-774-0484
MOMENT DI	بجالعات	UFLON	. Cox	ンナッスに	1005 F	LIZIINI	~		LENGTH=? TAST SP/
HEWLITT-PAG	KARN	> HP-41	2/ "I	/ARY .I	PIZO	GRAM			248.0000 NO. SEGMS=?
	Ϋ.	240"		4-"	?) 	Ų.	4)	>	28.000 9
(40"		4-0"		40"	UNIF M? 1/8 1.0000
C.O. FACTORS	.1744		15635		5.5635			.5714	I EA. SEG?1/0 0.0000
źK	01/47		37		2121		.2016 .	.1744	IX=?
DFIKIEK	1.0	.4873			242	.41		_	20.0000 NO. I CONST?
FEM : LINIT LOAD	4444	-5586		-5190	,5	.5127	as in a language de la language de la col	1.0	2.0000
TOTAL COAD	+4444			+ 	-0170 	-5190		-4444	IX=? 1 0.000 0
	- 95	-2539		+114	1.114	- 203	+193	+4444	NO. I CONST?
	L+ 95	+1237	-1302	- ' '' -	 		-2539 +1237	- 95	16.0000 IX=?
	-611	- 54		+734	+734		-54	+95 -611	20.0000 NO. I CONST?
	4611	+76	-28	_	-		+26	+ 611	2. 0000
	O	- 6723	-6723	-4342	4342		-6723	0	FR8=-5,190.0000
							9127		FBA=-5,190.0000
REACTION	120	100	120	120	120	120	120	120	KRB=8.2121
Δ_{R}	- 28	+ 28	+9.92	- 9.92	-9.92	+ 9.92		- 28	KBA=0.2121
FINAL 12	92	148	129.92	11008	110.00	129.92	148	92	
.									COFAB=0.5635
Mt, 170.2	Vec	e 92"	feam (\mathcal{D}					COFBA=0.5635
	W -	92(92)-1(9	z)²(.5)					
		= 423	2 "" / 4	JIT LOP	Z D				LENGTH=? はいり 59~1 240.0000
٨,, ٦	۸.						114 /		NO. SEGMS=?
MZ16, 1702.	; //	· = 93(216)-	1 (216)	12(:5)	= -349	56 ""/L	6 ,	20.0000 UNIF N? 1/0
M-11 0-12			(0.4)					1	1.8000 I EA. SEG?1/0
M24 2 TO 3	Μ	(= 120)	(44)-	1(24)	(.5)-6	723=4	4131"*/	.B .	0,889 8
PURLIN LOAD :	x ()	lo, e	~\\ . ~		0_,	.m =/			IX=? 1 0.000 8
I LIKE IN LUAD .	415	1124-0,4	77) + ~	>,41 =	1 204	11/ /KT	. = 17.18 ⁻⁷	/m	" NO. I CONST?
M (7.19	ر ار ا	021-1	l = ,	, w <u>+</u> /.					18, 808 8 IX=?
M-MAX = 17.18	2/2.	48) = 4	19,50	?	- Þ				20.0000 No. I const?
7.	. 110	5.507/	4 96	=12	027	Day 2			2.9000
16			/ 👄		201	1214 2	W,000 P	51 OK	FAB=-4,444.3308
MMAX AT 24	" = 1	7.18/41	31) = 7	70. Q.	71 11 #				FB9=+5,585.5147
	<u>~</u> 12.4	48							KAB=0.1744
4.	, = 7(2,971/2	.48=	28,6	17 2	 के ०, ००	6 P	2	KBA=0.2016
									COFAB=0.5714
M WAY, ITO "	<u>/</u>	4702 (17.18)	= 72	706"	T \$	· 2.48		
M' wax, 1 TO G	, - (16106/	2.48	= 29	. اود .	7 < 30,	000 P31	· ok	COFBR≃8.4941

SHAPE					
DESIGNATION:	C8x3.4	\$18x6.8	6Z	4Z	3Z
NOMINAL GAGE:	14	14	16	14	13
THICKNESS (In.)	0.0715	0.0715	0.0585	0.0715	0.0865
AREA (in.1)	1.001	2.002	0.819	1.001	1.211
DEPTH (in.)	8"	8"	8"	8"	8"
FLANGE WIDTH (in.)	2.5	5.0	2.5	2.5	2.5
l <u>x</u> (іп. ⁴)	9.64	19.28	7.95	10.00	12.25
S _x (in, ¹)	2.41	4.82	1.93	2,48	3.06
rx (in.)	3,10	3.10	3,12	3.16	3.18
lv (in.4)	0.83	2.65			
ry (in.)	0.91	1.15			
lve (In.4)	0.42				
Q	0.63	0.63			
ALLOWABLE MOM'T (k-ft.)	6.02	12.04	4.84	6.20	7.66

