

					PERMIT	ISSUED]
City of Portland, Maine	- Building or Use	Permit Application	n ^{Pern}	nit No:	Issue Date:	CBL : 087_1(2001
Location of Construction:	Owner Name:	$(207) \circ (4-67)$	Owner	Address:	AUG 2	5 2005 Phone:	
490 CONGRESS ST	KIMBALL BI	UILDING LLC THE	490 C	ONGRESS	ST		
Business Name:	Contractor Name		Contrac	ctor Address:	CITY OF PO	ORTIAND	1
	WRIGHT RY	AN CONSTRUCTIO	10 DA	NFORTH	STREET Port	and 207773.	3625
Lessee/Buyer's Name	Phone:		Permit ' Chan	Type: ge of Use - (Commercial		Zone:
Past Use:	Proposed Use:		Permit	Fee:	Cost of Work:	CEO District:	
Vacant Building	23 Residential	units and 4	\$4	2,321.00	\$4,700,000.0	1 00	
	Commercial - of use to 23 R and 4 Comme	Commercial - Renovations /Change of use to 23 Residential Condo units and 4 Commercial Condo			Approved IN Denied U	se Group: RJ	туре: 3В С5
Proposed Project Description:			1	Civilit	1018 55	\sim	VH
Renovations /Change of use to	o 23 Residential Condo	units and 4	Signatu	re: (werg	CA-3 Si	ignature UU	M
Commercial Condo			PEDES	TRIAN ACT	VITIES DISTRI	CT (P.A.D.)	
			Action:	Арргоу	ved Approv	ed w/Conditions	Denied
			Signatu	ire:		Date:	
Permit Taken By: Idobson	Date Applied For: 06/02/2005			Zoning	Approval		
1 This normit analisation d		Special Zone or Revie	ews	Zonir	ng Appeal	Historic Pr	eservation
Applicant(s) from meetin Federal Rules.	g applicable State and	Shoreland NA	.	Variance	e	Not in Dist	rict or Landmark
2. Building permits do not i septic or electrical work.	nclude plumbing,	Wetland	Wetland Miscellaneous		ineous	Does Not Require Review	
 Building permits are void within six (6) months of t 	l if work is not started he date of issuance.	Flood Zone Fime	2C	Conditio	onal Use	🔲 Requires R	eview
False information may in permit and stop all work.	validate a building	K Subdivision	[] Interpretation		Approved		
		Site Plan	1AC	Approve	ed	Approved v	w/Conditions
		Maj Minor MM		Denied		Denied	$\overline{\mathbf{x}}$
		Date:	ぶれ	Date:		Date:	
			-1-1				

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

10/24/05 12:30 - COSERVED INSTALLATION OF FILMES 18+1 BOTH WERE IN STACLED TO A DEFTH OF147-THE INSTALLER TERMINATED THE INSTALLATION ON HOKES, UN OF FOUTINGS IND FILLATED 11/2/05 Rubin 045.12 11/4/05 Ruban or AN 11/10/05 rahan orch 11/15/05 Rebaroic M 2-/17/26 Check Company Stymacles 62" RISE, NEED AMENDMENT The children poplar RAN Fine Stopping Not done 4714FLR 02/22/06 MONT - RGAR to SBATI + OMENDAENT for MONT Show with, Fine Stopping The Fin. Cong Aunipag ter oling 3nd Ploon 15= F LANTICE

AT co UNITS IN File. SMG

E.	URG		Departme	ent of Build	ling Inspection	
		Cer	tificat	e of	Occup	ancy
	TTIS POR		LOCATION	490 CON	GRESS ST	CBL 037 1002001
Issued to KIN	MBALL BUILD	ING LLC TH	E /WRIGHT I	RYAN CON	ISTDate of Issue	09/11/2006
This is :	to certify the	at the buildi	ng, premises,	or part the	ereof, at the abov	re location, built — altered
- changed as substantially to occupancy or u <u>Po</u>	to use under Bu o requirements use, limited or o RTION OF BUILDI Change of Use	uilding Perm of Zoning C otherwise, as NG OR PREMIS	it No. 05-067 Ordinance and indicated belo	⁹ , has hao Building (ow.	t final inspection, Code of the City, <u>APPROVED C</u> Residential	has been found to conform and is hereby approved for OCCUPANCY Condominium
					Use Group	R2
Limiting Condi	itions:				Type 3B	
U	none				IRC/IBC 20	003
	none					
This certificate	supersedes					
Approved:						
and the second sec	.e.	. •	• 21 •		2 - Z.	and the second free second
(Date)	Inspector				Inspecto	r of Buildings
anterior e contracto detaire	owner to	This certificate iden owner when proper	city changes hands. Copy	will be furnished	nD, MAINE	ollar.
<u> </u>	owner to	This certificate iden owner when proper	CITY C Departme	DF PORTLA	ND, MAINE ing Inspection	ollar.
		This certificate iden owner when proper	CITY C Departme	DF PORTLA ent of Build	nD, MAINE ing Inspection	ancy
	owner to	This certificate iden owner when proper	CITY C Departme tifficat	DF PORTLA ent of Build 490 CON	nD, MAINE ing Inspection GRESS ST	ollar. EITICY CBL 037 I002001
Issued to KIN	TE TOTAL	This certificate iden owner when proper	CITY C Departme tiffic stf LOCATION E /WRIGHT R	DF PORTLA ent of Build 490 CON	to owner or lesser for one d ND, MAINE ing Inspection GRESS ST STDate of Issue	ollar. ERL 037 1002001 09/11/2006
ssued to KIM	owner to ms instant iBALL BUILDI o certify tha	This certificate iden owner when proper	CITY C Departme tifficat LOCATION E /WRIGHT R ng, premises, c	DF PORTLA ent of Build 490 CON RYAN CON	nD, MAINE ing Inspection Operation GRESS ST STDate of Issue reof, at the above	oular. ETTET CBL 037 I002001 09/11/2006 e location, built — altered
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CUDE	Departmer	t of Building Inspection	
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	Uertificati	e of Gccup	iancy
CAPITATIS POL	LOCATION	490 CONGRESS ST	CBL 037 1002001
Issued to KIMBALL BUIL	DING LLC THE /WRIGHT R	YAN CONSTDate of Issue	09/11/2006
Mhia ia ta contifu		- ment thereast at the abo	the section half the stars t
	hat the building, premises, o	bas had final inspection	n has been found to conform
substantially to requirement	s of Zoning Ordinance and H	Building Code of the City	, and is hereby approved for
occupancy or use, limited or	otherwise, as indicated below	w.	0
PORTION OF BUILD	DING OR PREMISES	APPROVED Residenti	al Condominium
change of Ose		UNIT #2	04
		Use Grou	p R2
Limiting Conditions:		Type 3B	2002
		IKC/IBC	2003
попе			
This certificate supersedes			
certificate issued			
Approved:		÷	
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	e: This certificate identifies lawful use of buildin to owner when property changes hands. Copy w	g or premises, and ought to be transferred till be furnished to owner or lessee for one	from t dollar.
Notic owner	te: This certificate identifies lawful use of building to owner when property changes hands. Copy w CITY OF H Department	g or premises, and ought to be transferred fill be furnished to owner or lessee for one PORTLAND, MAINE of Building Inspection	l from e dollar.
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Notic owner Issued to KIMBALL BUILDIN This is to certify that - changed as to use under Bui substantially to requirements of coccupancy or use, limited or ot <u>PORTION OF BUILDIN</u> Change of Use	c: This certificate identifies lawful use of building to owner when property changes hands. Copy we CITY OF H Department of Certificate LOCATION 49 NG LLC THE /WRIGHT RYA the building, premises, or p Iding Permit No. 05-0679, of Zoning Ordinance and Buil herwise, as indicated below. <u>G OR PREMISES</u>	g or premises, and ought to be transferred fill be furnished to owner or lessee for one PORTLAND, MAINE of Building Inspection DECUPE DO CONGRESS ST IN CONSTDAte of Issue oart thereof, at the above has had final inspection, i Iding Code of the City, a <u>APPROVED O</u> Residential O UNIT #207 Use Group F Type 3B IRC/IBC 200	Ifrom edollar. CBL 037 1002001 09/11/2006 e location, built — altered has been found to conform and is hereby approved for CCUPANCY Condominium
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owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.

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	CITY OF PORTLA	ND, MAINE	
TEURGAN .	Department of Build	ng Inspection	
	Certificate of	Øccupz	incy
ATTATIS LOSS	LOCATION 490 CON	GRESS ST	CBL 037 1002001
ssued to KIMBALL BUILDING	LLC THE /WRIGHT RYAN CON	S Date of Issue	09/11/2006
This is to certify that th	e building, premises, or part the	eof. at the above	location, built – altered
- changed as to use under Buildi	ng Permit No. $05-0679$ has had	final inspection.	has been found to conform
ubstantially to requirements of 7	Coning Ordinance and Building C	ode of the City, a	nd is hereby approved for
ccupancy or use, limited or othe	rwise, as indicated below.		
PORTION OF BUILDING C	DR PREMISES	APPROVED O	CCUPANCY
Change of Use		Kesidential (Condominium
		Use Group R	32
imiting Conditions		Type 3B	
imiting Conditions:		IRC/IBC 200	03
none			
his certificate supercodes			
ertificate issued			
oproved:		5	
Talan a sia an	· · ·	, az	
(Date) Inspector		Inspector	of Ruildings
Notice: This c		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
owner to owner	ertificate identifies lawful use of building or premises, an when property changes hands. Copy will be furnished to	d ought to be transferred from	D Lar.
owner to owner	CITY OF PORTL Department of Buil	AND, MAINE ding Inspection	D Lar. <u>na of an in the second sec s</u>
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	CITY OF PORTL Department of Buil LOCATION 490 COI	AND, MAINE ding Inspection GRESS ST	n Iar. TEREE CBL 037 1002001
Issued to KIMBALL BUILDING	CITY OF PORTL CITY OF PORTL Department of Buil CONTINUES OF CONT CITY OF PORTL Department of Buil CONTINUES OF CONT LOCATION 490 CON G LLC THE /WRIGHT RYAN CONT	AND, MAINE ding Inspection GRESS ST	так. Так. СВL 037 1002001 09/11/2006
Issued to KIMBALL BUILDING	CITY OF PORTL CITY OF PORTL Department of Buil Cocation 490 COI G LLC THE /WRIGHT RYAN CO	AND, MAINE ding Inspection WGRESS ST NSTDate of Issue	n lar. TEL 037 1002001 09/11/2006
Issued to KIMBALL BUILDING	CITY OF PORTL CITY OF PORTL Department of Build COLOCATION 490 COL G LLC THE /WRIGHT RYAN COL the building, premises, or part th	AND, MAINE ding Inspection WGRESS ST NSTDate of Issue ereof, at the above	Tar. TEL 037 1002001 09/11/2006
Issued to KIMBALL BUILDING This is to certify that to - changed as to use under Build	CITY OF PORTL Department of Build CITY OF PORTL Department of Build COLLE THE /WRIGHT RYAN COL Che building, premises, or part the ling Permit No. 05-0679, has has	AND, MAINE ding Inspection WGRESS ST NSTDate of Issue ereof, at the above d final inspection,	Tar. CBL 037 I002001 09/11/2006 ve location, built — altered has been found to conform
Issued to KIMBALL BUILDING This is to certify that to – changed as to use under Build substantially to requirements of	CITY OF PORTL Department of Build CITY OF PORTL Department of Build COLOCATION 490 COL G LLC THE /WRIGHT RYAN COL the building, premises, or part the ling Permit No. 05-0679, has has Zoning Ordinance and Building of comming or indicated below:	AND, MAINE ding Inspection WGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City,	EBL 037 I002001 09/11/2006 ve location, built — altered has been found to conform and is hereby approved for
Issued to KIMBALL BUILDING This is to certify that to – changed as to use under Build substantially to requirements of occupancy or use, limited or oth PORTION OF BUILDING	CITY OF PORTL Department of Build CONTINUES OF CONT CITY OF PORTL Department of Build CONTINUES OF CONT LOCATION 490 CON G LLC THE /WRIGHT RYAN CONT the building, premises, or part the ling Permit No. 05-0679 , has has Zoning Ordinance and Building of erwise, as indicated below. OR PREMISES	AND, MAINE ding Inspection OUT UGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City,	Bar. CBL 037 I002001 09/11/2006 ve location, built — altered has been found to conform and is hereby approved for
Issued to KIMBALL BUILDING Changed as to use under Build substantially to requirements of occupancy or use, limited or oth <u>PORTION OF BUILDING</u> Change of Use	CITY OF PORTL Department of Build CITY OF PORTL Department of Build COLOCATION 490 COL G LLC THE /WRIGHT RYAN COL the building, premises, or part the ling Permit No. 05-0679, has has Zoning Ordinance and Building of erwise, as indicated below. OR PREMISES	AND, MAINE ding Inspection WGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City, Residential	The content of the co
Issued to KIMBALL BUILDING This is to certify that to - changed as to use under Build substantially to requirements of occupancy or use, limited or oth <u>Portion or Building</u> Change of Use	CITY OF PORTL Department of Build CITY OF PORTL Department of Build COLON 490 COL G LLC THE /WRIGHT RYAN COL the building, premises, or part the ling Permit No. 05-0679 , has ha Zoning Ordinance and Building of erwise, as indicated below. OR PREMISES	AND, MAINE ding Inspection UGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City, <u>APPROVED C</u> Residential UNIT #302	The content of the co
Issued to KIMBALL BUILDING This is to certify that to - changed as to use under Build substantially to requirements of occupancy or use, limited or oth <u>PORTION or BUILDING</u> Change of Use	CITY OF PORTL Department of Build CITY OF PORTL Department of Build COLOCATION 490 COL G LLC THE /WRIGHT RYAN COL the building, premises, or part the ling Permit No. 05-0679, has has Zoning Ordinance and Building of erwise, as indicated below. OR PREMISES	AND, MAINE ding Inspection WEEDERS NGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City, <u>APPROVED C</u> Residential UNIT #302 Use Group	The contract of the contract o
Issued to Change of Use Limiting Conditions:	CITY OF PORTL Department of Build CUTY OF PORTL Department of Build COLOCATION 490 COL G LLC THE /WRIGHT RYAN COL the building, premises, or part the ling Permit No. 05-0679 , has has Zoning Ordinance and Building erwise, as indicated below. OR PREMISES	AND, MAINE ding Inspection WGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City, <u>APPROVED C</u> Residential UNIT #302 Use Group Type 3B	The content of the co
Issued to KIMBALL BUILDING Changed as to use under Build substantially to requirements of occupancy or use, limited or oth <u>PORTION OF BUILDING</u> Change of Use	CITY OF PORTL Department of Build CETTION 490 COI GLLC THE /WRIGHT RYAN COI the building, premises, or part th ling Permit No. 05-0679, has ha Zoning Ordinance and Building of erwise, as indicated below. OR PREMISES	AND, MAINE ding Inspection OUT UGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City, <u>APPROVED C</u> Residential UNIT #302 Use Group Type 3B IRC/IBC 20	The contract of the contract o
Issued to Change of Use KIMBALL BUILDING Description Description Description Change of Use KIMBALL BUILDING Change of Use KIMBALL BUILDING Change of Use	CITY OF PORTL Department of Buil CETTION 490 COI G LLC THE /WRIGHT RYAN COI the building, premises, or part the ing Permit No. 05-0679, has has Zoning Ordinance and Building of erwise, as indicated below. OR PREMISES	AND, MAINE ding Inspection OUT UGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City, <u>APPROVED C</u> Residential UNIT #302 Use Group Type 3B IRC/IBC 20	The second secon
owner to owner where to owner issued to KIMBALL BUILDING This is to certify that to - changed as to use under Build substantially to requirements of occupancy or use, limited or oth <u>PORTION OF BUILDING</u> Change of Use Limiting Conditions: none This certificate supersedes	CITY OF PORTL Department of Build CONTINUES CITY OF PORTL Department of Build CONTINUES IOCATION 490 CON G LLC THE /WRIGHT RYAN CONT the building, premises, or part the ling Permit No. 05-0679 , has has Zoning Ordinance and Building of erwise, as indicated below. <u>OR PREMISES</u>	AND, MAINE ding Inspection OUT UGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City, <u>APPROVED C</u> Residential UNIT #302 Use Group Type 3B IRC/IBC 20	The contract of the second sec
Issued to KIMBALL BUILDING Changed as to use under Build substantially to requirements of occupancy or use, limited or oth <u>PORTION OF BUILDING</u> Change of Use Limiting Conditions: none This certificate supersedes certificate issued	CITY OF PORTL Department of Build CITY OF PORTL Department of Build COLOCATION 490 COL G LLC THE /WRIGHT RYAN COL the building, premises, or part the ling Permit No. 05-0679, has has Zoning Ordinance and Building of erwise, as indicated below. OR PREMISES	AND, MAINE ding Inspection WERESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City, <u>APPROVED (</u> Residential UNIT #302 Use Group Type 3B IRC/IBC 20	Example in the second s
Issued to KIMBALL BUILDING Changed as to use under Build substantially to requirements of occupancy or use, limited or oth <u>PORTION OF BUILDING</u> Change of Use Limiting Conditions: none This certificate supersedes certificate issued Approved:	CITY OF PORTL Department of Build CETTION 490 COI GLLC THE /WRIGHT RYAN COI the building, premises, or part the ling Permit No. 05-0679, has ha Zoning Ordinance and Building terwise, as indicated below. OR PREMISES	AND, MAINE ding Inspection OUT UGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City, <u>APPROVED C</u> Residential UNIT #302 Use Group Type 3B IRC/IBC 20	Example in the second s
Issued to KIMBALL BUILDING Changed as to use under Build substantially to requirements of occupancy or use, limited or oth <u>PORTION OF BUILDING</u> Change of Use Limiting Conditions: none This certificate supersedes certificate issued Approved:	CITY OF PORTL Department of Buil CETTICE TOP CUTY OF PORTL Department of Buil COCATION 490 COI GLLC THE /WRIGHT RYAN COI the building, premises, or part the ting Permit No. 05-0679, has has Zoning Ordinance and Building erwise, as indicated below. OR PREMISES	AND, MAINE ding Inspection WEEDERS NGRESS ST NSTDate of Issue ereof, at the above d final inspection, Code of the City, <u>APPROVED (</u> Residential UNIT #302 Use Group Type 3B IRC/IBC 20	Example in the second s

Notice: This certificate identifies lawful use of building or premises, and ought to be transferred from owner to owner when property changes hands. Copy will be furnished to owner or lessee for one dollar.

City of Portland, Maine - Buil	ding or Use Permi	t	Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 Tel: (2	207) 874-8703, Fax: ((207) 874-87	16 05-0679	06/02/2005	037 1002001
Location of Construction:	Owner Name:		Owner Address:		Phone:
490 CONGRESS ST	KIMBALL BUILDING LLC THE		490 CONGRESS S	490 CONGRESS ST	
Business Name:	Contractor Name:		Contractor Address:		Phone
	WRIGHT RYAN CO	NSTRUCTIO	10 DANFORTH S	TREET Portland	(207) 773-3625
Lessee/Buyer's Name	Phone:		Permit Type:	Sommonoial	
			Change of Use - C		
Proposed Use: 23 Desidential units and 4 Commercia	1 Penovations (Chang	e of De	osed Project Description:	use to 23 Pesidential	Condo units and A
use to 23 Residential Condo units and	4 Commercial Condo	Col	nmercial Condo		
Dept: Zoning Status: A	pproved with Condition	ns Review	er: Marge Schmucka	Approval D	ate: 06/30/2005
Note: 6/30/05 received the stamped	approved site plan				Ok to Issue:
1) Please note that the building fronta restircts the first floor uses to be re	age along Congress Stre etail-like in nature. Thes	eet is located is se uses will be	n a Pedestrian Activiti monitored.	es District (PAD). T	he PAD district
2) Separate permits shall be required	for any new signage.				
 This permit is being approved on twork. 	he basis of plans submi	tted. Any dev	viations shall require a	separate approval b	efore starting that
Dept: Building Status: A	pproved with Condition	ns Review	er: Mike Nugent	Approval D	ate: 08/19/2005
Note:					Ok to Issue:
1) The roof access ladder for mainter Plans must be submitted and appro	nenance Only must never oved prior to commence	er be accessib ement of this p	le to the tenants, A phy bhase.	vsical barracade mus	t be installed.
2) Common area stairs must NOT ha phase of construction.	ve the nosing found on	the plans. Fin	al plans must be appro	ved prior to commen	ncement of that
3) Plans for Mezzanine #402 must be	changed to reflect the	1/3 allowance	, currently over.		
4) No new unprotected openings are	allowed unless they cor	nply with Tab	le		
5) Piling plans and other submissions on construction.	as required in chapter	18 must be su	bmitted and approved	prior to commencen	nent of that phase
6) All exterior walls must be construct plans must be approved prior to construct the plane must be plane must be	eted of approved noncommencement of that pl	mbustible man nase of constr	erials as prescribed iir uction.	n section 602.3 of the	e 2003 IBC. Final
7) All penetrations in fire separation	assemblies must comply	y with Chapte	r 7		
Dept: Fire Status: A	pproved with Condition	s Review	er: Cotn Greg Cass	Approval Da	ate: 07/05/2005
Note:			1	FF	Ok to Issue:
1) All building construction to compl	y with NFPA 101				
2) Maintain access for fire apperation	IS				
3) Sprinkler system to comply with N	FPA 13				
4) Fire alarm system to comply with 1	NEP 4 77				

City of P	ortland, Maine - Build	ding or Use Permit	,		Permit No:	Date Applied For:	CBL:
389 Congr	ess Street, 04101 Tel: (2	207) 874-8703, Fax: (207) 874	-8716	05-0679	06/02/2005	037 1002001
Location of C	construction:	Owner Name:		0	wner Address:		Phone:
490 CONC	BRESS ST	KIMBALL BUILDING LLC THE 4			90 CONGRESS S	Т	
Business Nan	ne:	Contractor Name:		C	ontractor Address:		Phone
	_	WRIGHT RYAN CON	VSTRUCT	ΓΙΟ 1	0 DANFORTH S	FREET Portland	(207) 773-3625
Lessee/Buyer	's Name	Phone:		P	ermit Type:		
					Change of Use - C	ommercial	
Proposed Use			I	Proposed	Project Description:		~
use to 23 R	tial units and 4 Commercial condensitial condo units and	4 Commercial Condo	eor	Comme	tions /Change of u: rcial Condo	se to 23 Residential (Condo units and 4
Dept: Zo Note: 6/3	Status: A 80/05 received the stamped Status:	pproved with Condition approved site plan	s Revi	iewer:	Marge Schmuckal	Approval Da	te: $06/30/2005$ Ok to Issue: \checkmark
restirct	s the first floor uses to be re	etail-like in nature. Thes	et is locate e uses wil	l be mo	nitored.	es District (PAD). Ir	ie PAD district
2) Separat	te permits shall be required	for any new signage.					
3) This pe work.	rmit is being approved on t	the basis of plans submit	tted. Any	deviatio	ons shall require a	separate approval be	fore starting that
Dept: B	uilding Status: A	pproved with Condition	s Revi	iewer:	Mike Nugent	Approval Da	te: 08/19/2005
Note:	-				-		Ok to Issue: 🗹
 All extended plans n 	erior walls must be construct nust be approved prior to co	cted of approved noncor commencement of that ph	nbustible ase of cor	materia structio	ls as prescribed iin on.	section 602.3 of the	2003 IBC. Final
2) Commo phase of	on area stairs must NOT ha	ve the nosing found on t	he plans.	Final pl	ans must be approv	ved prior to commen	cement of that
3) Plans for	or Mezzanine #402 must be	e changed to reflect the 1	1/3 allowa	nce, cui	rently over.		
4) Piling pon cons	blans and other submissions struction.	s as required in chapter 1	18 must be	e submit	tted and approved	prior to commencem	ent of that phase
5) No new	unprotected openings are	allowed unless they com	nply with ⁷	Table			
6) The roo Plans n	of access ladder for mainter nust be submitted and appro	nenance Only must neve oved prior to commence	r be acces ment of th	sible to iis phase	the tenants, A phy e.	sical barracade must	be installed.
Dept: Fi	re Status: A	pproved with Condition	s Revi	ewer:	Cptn Greg Cass	Approval Da	te: 07/05/2005
Note:							Ok to Issue: 🗹
1) All bui	lding construction to compl	y with NFPA 101					
2) Fire ala	rm system to comply with I	NFPA 72					
3) Mainta	in access for fire apperatiou	15					
4) Sprinkl	er system to comply with N	IFPA 13					

City of Portland, Maine - Bu	ilding or Use Permi	t	Permit No:	Date Applied For:	CBL:	
389 Congress Street, 04101 Tel	: (207) 874-8703, Fax: ((207) 874-87	16 05-0679	06/02/2005	037 1002001	
Location of Construction:	Owner Name:		Owner Address:		Phone:	
490 CONGRESS ST	KIMBALL BUILDIN	G LLC THE	490 CONGRESS S	490 CONGRESS ST		
Business Name:	Contractor Name:	Contractor Name:			Phone	
	WRIGHT RYAN CO	NSTRUCTIO	10 DANFORTH S	TREET Portland	(207) 773-3625	
Lessee/Buyer's Name	Phone:		Permit Type:			
			Change of Use - C			
Proposed Use:	niel Demoustiene /Chang	Prop	osed Project Description:		Cando unito and 1	
use to 23 Residential Condo units a	nd 4 Commercial Condo	Cor	nmercial Condo			
Dept: Zoning Status:	Approved with Condition	ns Review	er: Marge Schmucka	al Approval D	ate: 06/30/2005	
Note: 6/30/05 received the stamp	ed approved site plan				Ok to Issue:	
1) Please note that the building from restircts the first floor uses to be	ontage along Congress Stre e retail-like in nature. The	eet is located i se uses will be	n a Pedestrian Activiti monitored.	ies District (PAD). T	he PAD district	
2) Separate permits shall be require	ed for any new signage.					
 This permit is being approved of work. 	on the basis of plans submi	itted. Any dev	viations shall require a	separate approval b	efore starting that	
Dept: Building Status:	Approved with Condition	ns Review	er: Mike Nugent	Approval D	ate: 08/19/2005	
Note:					Ok to Issue: 🗹	
1) The roof access ladder for main Plans must be submitted and ap	tenenance Only must never proved prior to commence	er be accessible ment of this p	e to the tenants, A phy hase.	ysical barracade mus	t be installed.	
2) Common area stairs must NOT phase of construction.	have the nosing found on	the plans. Fin	al plans must be appro	oved prior to comme	ncement of that	
3) Plans for Mezzanine #402 must	be changed to reflect the	1/3 allowance	, currently over.			
4) No new unprotected openings a	re allowed unless they cor	nply with Tab	le			
5) Piling plans and other submission on construction.	ons as required in chapter	18 must be su	bmitted and approved	prior to commencer	nent of that phase	
6) All exterior walls must be const plans must be approved prior to	ructed of approved nonco commencement of that pl	mbustible mat nase of constru	erials as prescribed in action.	n section 602.3 of the	e 2003 IBC. Final	
7) All penetrations in fire separation	on assemblies must compl	y with Chapte	r 7			
Dept: Fire Status:	Approved with Condition	ns Review	er: Cptn Greg Cass	Approval D	ate: 07/05/2005	
Note:			1 5		Ok to Issue:	
1) All building construction to con	nply with NFPA 101					
2) Maintain access for fire apperat	ious					
3) Sprinkler system to comply with	NEPA 13					
 Germanister system to compty with Time alarma system to compty with 						
4) Fire alarm system to comply wi	IN INFFA /2					

City of Portland, Maine - Build	ling or Use Permit		Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 Tel: (2	207) 874-8703, Fax: (2	207) 874-8710	05-0679	06/02/2005	037 I002001
Location of Construction:	Owner Name:		Owner Address:		Phone:
490 CONGRESS ST	KIMBALL BUILDING	G LLC THE	490 CONGRESS S	Т	
Business Name:	Contractor Name:		Contractor Address:		Phone
	WRIGHT RYAN CON	ISTRUCTIO	10 DANFORTH ST	FREET Portland	(207) 773-3625
Lessee/Buyer's Name	Phone:		Permit Type:		
			Change of Use - C	ommercial	
Proposed Use:		Propos	ed Project Description:		
23 Residential units and 4 Commercia use to 23 Residential Condo units and	I - Renovations /Change 4 Commercial Condo	of Renov Comm	vations /Change of unercial Condo	se to 23 Residential	Condo units and 4
Dept:ZoningStatus:ApNote:6/30/05 received the stamped	pproved with Conditions approved site plan	s Reviewer	Marge Schmucka	Approval Da	te: 06/30/2005 Ok to Issue: ☑
1) Please note that the building fronta restircts the first floor uses to be re	ge along Congress Stree tail-like in nature. Thes	et is located in a e uses will be m	a Pedestrian Activitio onitored.	es District (PAD). Tl	ne PAD district
2) Separate permits shall be required	for any new signage.				
 This permit is being approved on the work. 	he basis of plans submit	ted. Any devia	tions shall require a	separate approval be	fore starting that
Dept:BuildingStatus:ApNote:1)All exterior walls must be construct	pproved with Conditions	s Reviewer	Mike Nugent	Approval Da section 602.3 of the	te: 08/19/2005 Ok to Issue: ☑ 2003 IBC. Final
plans must be approved prior to co2) Common area stairs must NOT have	mmencement of that ph ve the nosing found on t	ase of construct he plans. Final	ion. plans must be appro	ved prior to commen	cement of that
phase of construction.	-			-	
3) Plans for Mezzanine #402 must be	changed to reflect the 1	/3 allowance, c	urrently over.		
4) Piling plans and other submissions on construction.	as required in chapter 1	8 must be subn	nitted and approved	prior to commencem	ent of that phase
5) No new unprotected openings are a	allowed unless they com	ply with Table			
6) The roof access ladder for mainten Plans must be submitted and appro	enance Only must never ved prior to commencer	be accessible t ment of this pha	o the tenants, A phy se.	sical barracade must	be installed.
Dept: Fire Status: Ap	proved with Conditions	Reviewer:	Cptn Greg Cass	Approval Da	te: 07/05/2005
Note:					Ok to Issue: 🗹
1) All building construction to compl	y with NFPA 101				
2) Fire alarm system to comply with N	NFPA 72				
3) Maintain access for fire apperatiou	s				
4) Sprinkler system to comply with N	FPA 13				

Location of Construction:	Owner Name:	Owner Address:	Phone:
490 CONGRESS ST	KIMBALL BUILDING LLC THE	490 CONGRESS ST	
Business Name:	Contractor Name:	Contractor Address:	Phone
	WRIGHT RYAN CONSTRUCTIO	10 DANFORTH STREET Portland	(207) 773-3625
Lessee/Buyer's Name	Phone:	Permit Type:	
		Change of Use - Commercial	

City of Portland, Maine - Build	ling or Use Permi	t	Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 Tel: (2	05-0679	06/02/2005	037 1002001		
Location of Construction:	Owner Name:		Owner Address:	Phone:	
490 CONGRESS ST	KIMBALL BUILDIN	G LLC THE	490 CONGRESS S	T	
Business Name:	Contractor Name:		Contractor Address:		Phone
	WRIGHT RYAN CO	NSTRUCTIO	10 DANFORTH S'	TREET Portland	(207) 773-3625
Lessee/Buyer's Name	Phone:		Permit Type:		
	_		Change of Use - C	ommercial	
Proposed Use:		Propose	d Project Description:		
23 Residential units and 4 Commercia use to 23 Residential Condo units and	l - Renovations /Chang 4 Commercial Condo	e of Renov Comm	ations /Change of u percial Condo	se to 23 Residential	Condo units and 4
Dept: Zoning Status: Ap	pproved with Condition	ns Reviewer :	Marge Schmucka	l Approval Da	ate: 06/30/2005
Note: 6/30/05 received the stamped	approved site plan				Ok to Issue:
1) Separate permits shall be required	for any new signage.				
 This permit is being approved on t work. 	he basis of plans submi	itted. Any devia	ions shall require a	separate approval be	efore starting that
3) Please note that the building fronta restircts the first floor uses to be re	ge along Congress Stre tail-like in nature. The	eet is located in a se uses will be m	Pedestrian Activiti onitored.	es District (PAD). T	he PAD district
Dept: Building Status: Ap	pproved with Condition	ns Reviewer:	Mike Nugent	Approval Da	ate: 08/19/2005
Note:					Ok to Issue: 🗹
 Piling plans and other submissions on construction. All exterior walls must be construct plans must be approved prior to con- 	as required in chapter	18 must be subm mbustible materi	itted and approved als as prescribed iir	prior to commencen a section 602.3 of the	ent of that phase 2003 IBC. Final
3) Plans for Mezzanine #402 must be	changed to reflect the	1/3 allowance, c	urrently over.		
4) The roof access ladder for mainten Plans must be submitted and appro	enance Only must neve wed prior to commence	er be accessible t ement of this pha	o the tenants, A phy se.	sical barracade mus	t be installed.
5) All penetrations in fire separation a	assemblies must comply	y with Chapter 7			
6) Common area stairs must NOT have phase of construction.	ve the nosing found on	the plans. Final I	blans must be appro	ved prior to commer	cement of that
7) No new unprotected openings are a	allowed unless they cor	nply with Table			
Dept: Fire Status: Ap	oproved with Condition	s Reviewer:	Cptn Greg Cass	Approval Da	ate: 07/05/2005
Note:					Ok to Issue: 🗹
1) Sprinkler system to comply with N	FPA 13				
2) All building construction to compl	v with NFPA 101				
2) Fine clarm system to convolution h					
5) File alarm system to comply with I	NFFA 12				
4) Maintain access for fire apperatiou	S				
Dept: Fire Status: Ap Note:	oproved	Reviewer:	Lt. MacDougal	Approval Da	tte: 08/04/2004 Ok to Issue: ☑
Dept:PlanningStatus:ApplicationNote:All conditions of approval control	oproved with Condition	s Reviewer:	Ethan Macomber	Approval Da	nte: 11/09/2004 Ok to Issue: ☑

Location of Construction:	Owner Name:	Owner Address:	Phone:
490 CONGRESS ST	KIMBALL BUILDING LLC T	IE 490 CONGRESS ST	
Business Name:	Contractor Name:	Contractor Address:	Phone
	WRIGHT RYAN CONSTRUC	TIO 10 DANFORTH STREET Portland	(207) 773-3625
Lessee/Buyer's Name	Phone:	Permit Type:	
		Change of Use - Commercial	

8/9/2005-dmartin: James Sterling called on Tues 8/9/2005 will call back on Mon when he returns.

10/3/2005-mjn: Received two sheets of Piling info. Spoke with Peter from Wright Ryan, left messages with Mark Leasure and Jim Sterling that more information is required prior to commencement.



Commercial Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 490 Congress Street					
Total Square Footage of Proposed Structure 48,544 (including basement,	I Square Footage of Proposed Structure ,544 (including basement, 10,050)		Square Footage of Lot 11,066 sf		
Tax Assessor's Chart, Block & Lot Chart# 37 Block# 1 Lot# 2	Owner: Kimball Building, LLCTelephone:c/o Davidson Assoc.773-71222 Portland Fish Pier, Suite302				
Lessee/ Buyer's Name (If Applicable) N/A	Applicant name, address & telephone: Wright/Ryan, Inc.Cost Of Work: \$4Fee: \$		Cost Of Work: <u>\$4,700,00</u> 0 Fee: \$		
Current Specific use:					
Proposed Specific use: Commerc:	fic use: Commercial/residential				
Project description: Renovat:	description: Renovation for 23 residential condominium				
units and 4 commercial condominium units.					
Contractor's name, address & telephone: Wright/Ryan, Inc. 773-3625					
Who should we contact when the permit is ready: 10 Danforth Street Portland 04101 Mailing address: see above Don Skeffington					
		Phone	× 773-3625		

Please submit all of the information outlined in the Residential Application Checklist. Failure to do so will result in the automatic denial of your permit.

At the discretion of the Planning and Development Department, additional information may be required prior to permit approval. For further information stop by the Building Inspections office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/ her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

	Building Maine's Great Spaces	tm	Date: 6.2.05	
WR Donald R. Skeffington, Jr.		W.W Construction Co	st, \$9.00 per additional \$1000.00 cost	
	Donald R. Skeffington, Jr.	not commence any wo)rk unter met s	

City of Portland Site Plan Application If you or the property owner owe real estate taxes, personal property taxes or user charges on any property within the City of Portland, payment arrangements must be made before permit applications can be received by the Inspections Division.

Address of Proposed Development: $_{490}$	Zone: B3			
Total Square Footage of Proposed Structure: Square Footag		Square Footage of Lot:		
New:14,310 sq.f Existing: 26,	884 sq.f	11,066 sq.f		
Tax Assessor's Chart, Block & Lot:	Property o	wner's mailing address:	Telephone #:	
Chart# 37 Block# 1 Lot# 2	Kinball Building, LLC Box 427 Vinalhaven ME, 04863		(207) 772-0037	
Consultant/Agent, mailing address, phone # & contact person:	Applicant's name, mailing address, telephone #/Fax#/Pager#:		Project name:	
James A. Sterling AIA 142 High street suite 612 P.O. Box 7305 Portland ME, 04112 (207) 772-0037	Matthew Alcorn Kimball Building, LLC Box 427 Vinalhaven ME, 04863 (207) 671-5325		490 Congress	
New BuildingBuilding Addition ManufacturingWarehouse/Distrib Subdivision (\$500.00) + amount of lots Site Location of Development (\$3,000) (except for residential projects which s Traffic Movement (\$1,000.00)Sto Section 14-403 Review (\$400.00 + \$25.0 Other	Change of outionPo 26 (\$25.00 .00) shall be \$200 ormwater Qo 00 per lot)	UseResidentialOffi arking lot per lot) \$ <u>650</u> 0.00 per lot) Jality (\$250.00)	ceRetail	
Major Development (more than 10,000 sc Under 50,000 sq. ft. (\$500.00) 50,000 - 100,000 sq. ft. (\$1,000.00) Parking Lots over 100 spaces (\$1,000.00) 100,000 - 200,000 sq. ft. (\$2,000.00) 200,000 - 300,000 sq. ft. (\$3,000.00) Over 300,000 sq. ft. (\$5,000.00) After-the-fact Review (\$1,000.00 + ap)	q. ft.) 10) plicable app	olication fee)		
Minor Site Plan Review Less than 10,000 sq. ft. (\$400.00) After-the-fact Review (\$1,000.00 + ap	plicable ap	plication fee)		
Plan Amendments				•
Planning Staff Review (\$250.00)		N. N.		
		- Please	see next page -	

 $\overline{}$

CITY OF PORTLAND, MAINE DEVELOPMENT REVIEW APPLICATION PLANNING DEPARTMENT PROCESSING FORM

2004-0146

	2	Zoning Copy	Application I. D. Number
Matthew Alasma Kimball Duild	i		7/8/2004
Matthew Alcorn, Kimball Build	ing		Application Date
PO Box 427 Vinalbayon ME 0	1963		490 Congress Street
Applicant's Mailing Address			Project Name/Description
ripplicanto maining radiooo		490 - 490 Congress St. Portl	and. Maine
Consultant/Agent		Address of Proposed Site	
Applicant Ph: (207) 671-5325	Agent Fax:	037 1002001	
Applicant or Agent Daytime Telep	phone, Fax	Assessor's Reference: Chart-B	llock-Lot
Proposed Development (check al	I that apply): 🦳 New Building 🛛 🗸 Bu	ilding Addition 🦳 Change Of Use	🖌 Residential 🦳 Office 🦳 Retail
🦳 Manufacturing 🥅 Wareho	use/Distribution	Other (specify)
14 310 e f			
Proposed Building square Feet or	r # of Units Acreage	of Site	Zoning
Check Review Required:		3	
Site Plan (major/minor)	✓ Subdivision # of lots 26	PAD Review	14-403 Streets Review
Flood Hazard	Shoreland	HistoricPreservation	DEP Local Certification
Zoning Conditional Use (ZBA/PB)	Zoning Variance		Other
Fees Paid: Site Pla	\$500.00 Subdivision	Engineer Review	Date 7/9/2004
Zoning Approval Stat		Reviewer Mame	Schmuckal-
			Tasations
	See Attached	Denied	LISPERIOIS
Approval Date	Approval Expiration	Extension to	Additional Sheets
Condition Compliance			Aldoned
	signature	date	
Performance Guarantee	Required*	Not Required	
* No building permit may be issue	d until a performance guarantee has bee	en submitted as indicated below	
	date	amount	expiration date
Increation Foo Daid	Guie	anoun	expiration date
Inspection ree raid	date	amount	
- Duilding Demiklasus	Gale	anount	
Building Permit Issue	data	-	
	uale		
Performance Guarantee Redu	date		
	Uale		signature
I emporary Certificate of Occu	date	Conditions (See Attached)	
	uale		expiration date
Final Inspection	data		
	date	signature	
Certificate Of Occupancy		-	
	uate		
Performance Guarantee Relea	ISEO		
	aate	signature	
Defect Guarantee Submitted			
	submitted date	amount	expiration date
Detect Guarantee Released			
	date	signature	

Date: 6/30/05 Applicant: KimbALL Bldg LLC C-B-L: 037-I-002 Address: A90 Congress X IGAINST ZONING ORDINANCE permit Appl #05-0679 Date - Existin Development Zone Location - R-3 Renovations & Additiones to Existing Bldg Interior of corner lot change of use from retail à offuges to retail - offur is i residant in Proposed Use/Work - Re 23 residential D. 4 (andos) Servage Disposal - CH 4 commeter AL Condos Lot Street Frontage -Front Yard -Rear Yard - 7 NH in B- 3 Side Yard -Projections -Width of Lot - NH Height - 150'Alon Congress -250' bright from Congress 75' to high est Lot Area - NA Lot Coverage/Impervious Surface - NA (006 Area per Family - NA Off-street Parking - None required for the ENSP -Bldg-PA Approved by FLAMMIN BD & Council See Copie Epart Agreement Loading Bays - NA Site Plan - 2004 - 0146 Shoreland Zoning/ Stream Protection -13-Zone(Flood Plains - PAV Abor Businesses off Congress Street Are Restricted to PA

Mike Nugent - 490 Congress St.

8/ 38/34 _____

From:Mike NugentTo:dskeffington@wright-ryan.com; james sterlingDate:7/12/2005 3:04 PMSubject:490 Congress St.

I have commence the plan review and have the following questions/comments:

1) Are there construction easements for work to be done on parts of the building that are not within the property lines (as on sheet A-1.1)

2) Need UL listings for all fire separation assemblies, also STC's for any party wall or floor ceiling or system that divides the dwelling units from common area or mixed use area.

3) Confirming that this will be a FULL NFPA 13 fire supression system.

4) Is the "F1" design structurally suitable for a shear wall, or will there be other construction elements, if so...UL listing, Fire rating and STC...

5) A-1.3 and similar are the party walls F1 or S1 or both?

6) The proposed courtyard does not appear to continue the required fire separation rating for the means of egress that it interrupts, please provide a code justification.

7) What is the Rating, UL listing of the elevator shaft.

8) What percent of theperimeter of the basement is 6 feet or more above grade?

9) A-3.4 shows open riser on the mezzanine stairs....not allowed.

10) Please review section 505 generally, it appears that the Mezzanines exceed the limitations found therein.

11) Please provide a glazing plan that shows the percentage of unprotected openings for the new construction or new openings inf existing construction and the distance from the proeprty lines (table 704.8). Also provide the ratings of the walls that require rating as shown in table 602.

12) (A-3.5) Conventional nosings are not allowed for common area stairs.

13) (A-3.5) On this page, It appears that you show a 1-hr. wall typ. for the stiarway enclosure..this must be 2 hr.

14) Need Geotech Report referenced in the notes on S-0.1

15) There is no basis for a compliance assessment for the proposed pilings, see section 1808 and 1809.

16) There is no evidence that the existing structure has been evaluated and will withstand the additional loads, also please reveiw Section 1614.1 regarding seismic force increases and the requirements for additional reinforcement.

17) Please provide a specific plans thout outlines proposed protections for penetrations in fire separation assemblies, such as fire dampers, recessed lighting wraps etc.

18) Please provide details w/ load specs for all guards.

19) Exterior walls in type 3 construction must be non combustible. Please provide a code justification for the presence of combustibles in the vertical expansion areas.

20) Fire doors including the elevator and corridor doors must be tested in accordance with NFPA 252 or UL 10C, as well as smoke tested (UL 1784) Is this information available?

Mike Nugent - 490 Congress St. Piling installation

From:Mike NugentTo:phaber@wright-ryan.comSubject:490 Congress St. Piling installation

As a part of our permit conditions it was required that submissions establishing compliance with Chapter 18 of the IBC be reviewed and approved prior to piling installation.

On 10/13/05 these plans and specs were submitted.

The Helical steel piles are approved conditionally pursuant to section 1808.2.3 of the IBC. The following conditions must be met.

1) The Geotechnical engineer referenced in the 9/6/05 and 9/13/05 must be contracted to perform special inspections and all other inspections and tests pursuant to Chapter 17 and 18 of the IBC.

2) Reports of installed bearing capacities of each piling must be provided to the Design professional responsibly in charge of the project and project engineer as well as this office.

3) Any structural design changes must be submitted for approval.

4) The type of testing used to determine piling capacity has not been documented. This information must be submitted for approval prior to commencement.

5) A final statement of compliance must be submitted when the work is completed documenting complete compliance with the applicable provisions of the 2003 IBC.

Your's Truly, Mike Nugent Inspections Division Director



L&L STRUCTURAL

ENGINEERING SERVICES, INC. Six Q Street South Portland, ME 04106 Phone: (207) 767-4830 Fax: (207) 799-5432

05 - 0679 037 - I-2pyitu com 037 - Dwright PHABER OWRIGHT

September 13, 2005

Mr. James Sterling, AIA 142 High Street Portland, Maine 04101

Subject: IBC 2003 requirements for the pile foundation permit application for 490 Congress Street.

Dear Mr. Sterling

We have compiled the information required for the special type of pile foundation in accordance with IBC 2003, section 1808, specifically 1808.2.3 "**Special types of piles**". Attached we have included the following:

- 1. An amendment to the SCHEDULE OF SPECIAL INSPECTIONS to include provisions for the helical pile foundation system. We have contacted S.W. Cole Engineering, Inc. to discuss the pile provisions and they indicated that they will due the pile monitoring and observations.
- 2. A soils report prepared by S.W. Cole Engineering, Inc. dated April 8, 2005.
- 3. Pile foundation design calculations including two letters prepared by SW&C Engineering, P.A. stating the pile design is acceptable.
- 4. Pile material properties.
- 5. A.B. Chance brochures, as well as, material and tooling specifications.
- 6. Preliminary design calculations prepared by Hubbell Power Systems, Inc./ A.B. Chance.
- 7. Structural drawing which reflect the pile design information on the general notes sheet, as well as, the foundation modifications to the origanl drawings submitted.

Our office has also reviewed the design calculations and has determined them to be acceptable.

490 Congress Street – Permit Application Information. October 13, 2005 Page 2

If you have any questions or require additional information, please do not hesitate to call.

Sincerely,

L&L Structural Engineering Services, Inc.

mark 7 L

Mark F. Leasure, P.E. Principal



Cc: Mike Nugent (City of Portland) Peter Haber (Wright-Ryan Construction) Jim Sterling (James Sterling Architect, AIA)

Chance Civil Construction 210 North Alien Street Centralia, MO 65240-1395 Tel: 573-682-8273 Fax: 573-682-8660 Www.abchance.com

To: Mr. Richard Porter -- Solid Earth Technologies, Inc.

Fax No. : (603) 682-7822

Since 1912

Date: October 6, 2005

From: Gary L. Seider

Page 1 of 4 (including cover)

Subject: Preliminary Design - Helical Screw Piles for Shear Walls - Kimball Building in Portland, ME

This fax is to recommend helical screw piles for the subject project using the load data and soil data provided.

Assumptions-

Subsurface data in the form of soil borings (B-2) dated 3/9/2005 by S.W.O.L.E. Engineering, Inc. The subsurface profile consists of about 7.5'-0 of loose to medium dense granular material and medium silty clay fill over sand till that trends from loose to medium dense with depth; eventually becoming vary dense prior to the bottom of the boring at 25.9'-0 helow grade. The water table is reported to be located 8' +/- below grade. For purposes of this recommendation, the water table is assumed to be at grade.

Per the information supplied, the application is restoration of an old historic building. As such, approximately 60'-0 of shear wall is being added in the basement to provide additional structural supports. Helical piles are being considered to support the shear wall.

Working loads per helical pile is 20 kip compression and 1.8 klp lateral; with the lateral loads being parallel with the wall. These loads are based on a 6'-0 spacing along the wall. A factor of safety of 2 is assumed to detormine the required ultimate capacity per helical pile; therefore the required ultimate compression capacity is 40 kip and ultimate lateral capacity is 3.6 kip.

Application-

The lateral load is the limiting factor for this design. There are two options to consider. The first is to enlarge the shaft of the helical pile with a steel pipe casing so that the lateral load can be resisted via passive earth pressure against the shaft's side projected area. The relatively loose and saturated soils near the surface will require a 7'-0 to 10'-0 long case depth of 8° or 10" diameter. Therefore, this option is not considered economically feasible.

The second option is to batter the helical piles in-line with the wall such that the horizontal component of the pile capacity will resist the lateral load. A 10° batter from vertical should provide sufficient horizontal capacity – the horizontal component being equal to ebout 17% of

CONFIDENTIALITY NOTICE: The information contrained in this faceimile mossage is privilaged and confidential information intended subly for the use of the individual or antity to whom it is addressed. If you are not the intended recipient, you are hareby notified that any dissemination, disclosure, copying or distribution of this telecopy is sincity prohibited. If you receive this communication in error, please immediately notify us by telephone and return the original messages and documents to us at the above address via the United States Postal Service. Thank You.

the axial capacity of the helical pile. It is suggested the helical piles be battered away from the center point of the wall - as we discussed on the phone earlier this week.

P. 02

A twin helix (8"-10") or triple-helix (8"-10"-12") configuration with an overall length between 20'-0 and 25'-0 should provide an ultimate capacity above 40 kip. See the attached HeliCAP® Engineering Software Summary reports for verification of theoretical capacity. A helical pile with 41 kip of ultimate capacity installed 10° from vertical will have over 7 kip lateral resistance and 40 klp vertical resistance. Install to a minimum installation torque of 4,500 ft-lb to ensure the helix plates have penetrated into the dense sand. Use either A.B. Chance Type 5S150 1-1/2" or Type SS175 1-3/4" square shaft material.

If using 1~1/2" square shaft material, I recommend using a small diameter grout column to resist buckling. The grout column can be formed without displacement plates. Note the high water table may require the use of a PVC case at the top during installation to ensure adequate hydrostatic head for proper grout column formation. If using 1-3/4" material, a grout column is not needed because the required capacities are not high compared to the mechanical strength of Type SS175 material.

Please advice, if questions.

Thank you,

Gary L. Seider Hubbell Power Systems, Inc./A.B. Chance

Atlachments

The conceptual design(s) contained in this document may be based on information provided by other parties; Hubbell/A.B. Chance cannot be responsible for the accuracy, completeness or applicability of any such information, nor do we warrant the fitness of any conceptual design based on such information for the intended purpose. The reliability of geotechnical analysis, and conceptual designs based on such analysis, may be improved by conducting field load tests to establish working and ultimate load capacities.

Project and geotechnical conditions may vary considerably within a site location and/or with time. Should any of the assumptions used to develop this conceptual design be incorrect, or should project and/or geotechnical conditions be found to vary from those assumed, Hubbell/A.R. Chance should be notified immediately so that appropriate modifications can be made in the product selection and cost estimate.

Construction projects are often governed by rules, regulations, codes and/or requirements established by National, State, County and/or City authorities and/or other controlling agencies. Approval by a Professional Engineer who is licensed to practice in the state where the project is constructed is often required. Hubbell/A.B. Chance cannot maintain knowledge of all such requirements throughout the country. In all cases a qualified engineer who is familiar with actual site conditions and all applicable rules, regulations, etc. must develop the final design in order to onsure that the owners needs (which include compliance with all applicable rules, etc.) are met.

[&]quot;The information contained in this document is the intellectual property of Hubbell/A.B. Chance and is disclosed solely for use in developing and costing a final design using A.B. Chance products. Copying or distributing this information for any other purpose, without written consent of Hubbell/A.B. Chance, is expressly forbidden.

			HeliC	AP SUMN	IARY REF	PORT		
Job Name: Ki	nball Bidg	Portland,	ME			C:\Documents and	Settings\gisel	der\My Docum
Job Number: {	SET					Water Table Depth:	0 ft	
Boring No: B-2	>							
Anchor Use: C	compression			Canacity	Summani	,		
B. comet	Annhar		• (Tatal	(De e em en en ele el	T	
Number	Family		Depth (ft)	Capacity (kips)	Anchor Capacity (kips)	Recommended Ultimate Capacity (kips)	(ft-lbs)	
Anchor 1	Angle: 90 Datum De Length: 2	apth: 0						
10" helix 8" helix	SS 175 SS 175		19.5 21.5	15.2t 17.6c 11.7t 91.2c	26.9t 108.9c	26.9t 57.6c	2878	
Ancher 2	Angle: 90 Datum De	pth: 0						- <u></u>
12" helix	55 175		16	5.5t 15c				
10" helix 8" helix	58 175 58 175	;	18.5 20.5	1 1t 16.1c 10.8t 12c	27.4t 43.3c	27.4t 43.3c	3241	
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12 17 22	Sand Sand Sand	0	40 100	30.4 38.6 55.4		130 140		

From:	Marge Schmuckal
То:	Ethan Boxer-Macomber
Date:	Tue, Nov 9, 2004 1:20 PM
Subject:	490 Congress St -

Ethan,

This project is located within a B-3 Business Zone. There are no setback requirements. The maximum height is 150' plus 40' for a cap. The maximum building height is being met with this proposal.

In the B-3 Zone there are no parking requirements for any change of use within existing buildings. Any new construction must meet division 20 of the zoning ordinance, or the parking regulations. It is my understanding that ther will be 7 new units in the newly constructed area, with 14 units having a majority of their area in the existing structure. For the seven new units within the new structure, 2 parking spaces for each unit plus one extra for each 6 units are required. Therefore 15 off street parking spaces would be required for this project. It is my understanding that 23 parking spaces are under lease at the parking garage. The parking requirements are being met.

Marge Schmuckal Zoning Administrator 11/9/04 : *

JAMES A. STERLING Architect A I A 142 High Street P.O. Box 7305 Portland, Maine 04112 207 772.0037 FAX773.8545 cheehaak@gwi.net

7 AXIS

08 September 2004

Ethan Boxer-Macomber Planning Department

Re: 490 Congress Street

Dear Ethan:

The following is an outline of existing (renovated) savare footage and new square footage as it relates to parking requirements.

<u>Basement Level</u>: 10,169 s.f. existing minor renovation for storage.

First Level: 10,169 s.f. existing retail, renovation.

<u>Second Level</u> (for 7 residential units and covirtyard): 10,169 s.f. existing, renovation. 7 <u>Third Level</u> (7 residential units): 3,101 s.f. existing renovation, 7,068 s.f. new 7 construction.

<u>Fourth Level and Mezzanine</u> (for 7 residential units): 1,849 s.f. existing renovation, 7,603 new construction.

The basement, first and second levels are repovations as noted. On the third floor three units are new construction, with the Brown Street unit is a renovation and the three Free Street units are renovations with additions (each addition is less than half of the existing square footage. The fourth level has four units of new construction and three units of existing renovated space with new construction of less than half of the existing space. There are essentially 7 units of new construction of the total 21 project units.

I am assuming, however, the developers intend to provide at least one parking space for each unit, which would exceed the City's requirements.

Sincerely,

James Sterling, AIA Architect

At los Back Anno New 3710x 319 From Broking 304->Henris Grand 219 From Broking 304->Henris Grand 219 From RUSSING 721



THIS LEASE is made this day of , 2004, is by and

between the CITY OF PORTLAND, a municipal corporation organized and existing

under the laws of the State of Maine ("Landlord") and THE KIMBALL BUILDING,

LLC, a Maine limited liability company with an address at 490 Congress Street, Portland,

Maine 04101, or its assigns ("Tenant").

WITNESSETH:

ARTICLE I. Parking Spaces. Landlord hereby leases, demises and lets to Tenant, and Tenant hereby takes and hires from Landlord, for the term and upon and subject to the terms and conditions set forth in this Lease, the property, described as twenty-three (23) parking spaces in the parking garage known as the Spring Street Parking Garage located between Spring and Free Streets, Portland, Maine as such spaces are shown on the plan attached hereto as Exhibit A, as same may be relocated from time to time pursuant to this Lease (collectively, the "Parking Spaces"), together with the right to use in common with others, for purposes of ingress and egress only, the entrance and access ways from Spring and Free Streets to the Parking Spaces.

ARTICLE II. Initial Term; Renewals. The initial term of this Lease shall be for a period of three (3) years from the "Commencement Date", which is defined as the earlier of:

- (1)The date on which the first Certificate of Occupancy is issued for a completed residential unit in the Condominium (as such term is defined below) by Tenant; or
- The date on which the City of Portland receives an offer from another (2)prospective tenant to lease parking spaces, such that, were the City to accept such offer, the number of remaining available parking spaces in the Spring Street Parking Garage would be reduced to less than twenty-three (23).

Thereafter, Tenant shall have the option to extend the term of this Lease in perpetuity for consecutive periods of one (1) month each. This Lease shall automatically be extended for each such consecutive extension option, unless Tenant gives written notice to Landlord no later than fifteen (15) days prior to the expiration of the then current term of this Lease that Tenant elects not to extend the term of this Lease. Tenant may elect not to extend the term of this Lease for one, some or all of the Parking Spaces. In the event the term shall automatically be extended as provided herein (with respect to all or less than all of the Parking Spaces), then all references herein to the "Term" shall be deemed to include the term of this Lease as extended and this Lease shall be extended upon all of the same terms and conditions for the extended term, except for further options to extend as to which there shall be one less after each succeeding option period, and with respect to the annual rent provisions set forth herein.

Notwithstanding the above language either the number of spaces or the term of the lease or both may be renegotiated at the initiation of either the tenant or the landlord at any time so long as the result of such renegotiation is consistent with the parking required by the City's zoning ordinances and site plan requirements as amended.

<u>ARTICLE III. Monthly Rent</u>. Tenant agrees to pay to Landlord at the address set forth in the first paragraph above or at such other place as Landlord may direct by notice in writing to Tenant, Monthly Rent for the Parking Spaces as set forth below. Rent for the first month shall be due and payable on the date of this Lease, with monthly payments due on the first day of each month thereafter date of this Lease during the Term.

Landlord shall lease the Parking Spaces to Tenant at market rates as set by Landlord from time to time, presently Ninety (\$90.00) Dollars per month per space.

If payment to the Landlord is more than five (5) days late, Landlord has the right to deny access to the Parking Space in question.

<u>ARTICLE IV.</u> Use of Parking Spaces. Tenant agrees that the Parking Spaces during the term of this Lease shall be used and occupied only for vehicle parking for thencurrent residents of the condominium at 490 Congress Street, Portland, Maine (the "Condominium"). For purposes of this Lease, the following are specifically excluded from the meaning of "vehicle": motorcycles, boats, trailers and recreational vehicles (RVs and campers). Tenant shall restrict the use of the Parking Spaces to such purposes, and shall not use or permit the use of the Parking Spaces for any other purpose without the written consent of the Landlord. The Parking Spaces shall be subject to and used in accordance with Rules and Regulations promulgated by Landlord (attached here to as Exhibit B), as same may be amended from time to time.

Tenant or each of its assignees shall notify the Spring Street Parking Garage booth attendant if his or her vehicle will remain in the same location for more than 48 hours, in order to facilitate cleaning, maintenance and security of the parking garage.

Tenant and its assigns acknowledge that the Spring Street Parking Garage is closed from midnight to 6:00 a.m. daily, and on major holidays. If Tenant or any of its assigns needs access to his or her vehicle during those times, Tenant or its assigns must pay the

2

- 2

\$25 "after hours" fee for each occasion. The current major holidays observed by the Spring Street Parking Garage are Memorial Day, July 4th, Labor Day, Thanksgiving, Christmas Eve from 6:00 p.m. to midnight and Christmas Day.

Tenant will not make or suffer any strip or waste of the Parking Spaces, and shall comply with all laws, orders, ordinances and regulations of Federal, State, County and Municipal authorities, and with any direction of any public officer or officials, pursuant to law, which shall impose any duty, obligation, or limitation upon Landlord or Tenant with respect to the Parking Spaces or the use thereof. Tenant shall do or keep nothing, nor allow anything to be done or kept, on or about the Parking Spaces which may be denominated extra hazardous as to insurance by fire insurance companies or which may increase the fire insurance rates for the Parking Spaces or which may cause any of Landlord's insurance to be adversely affected.

ARTICLE V. Repairs, Maintenance, Alterations, and Improvements.

During the term of this Lease, the Landlord shall maintain the Parking Spaces and repair any damage thereto. Such maintenance and repair shall include, without limitation, snow plowing, sanding, ice removal, repaving and restriping. Notwithstanding the foregoing, if any repair or maintenance is necessitated by acts of Tenant or its assignees, subtenants, invitees, agents or guests, then Tenant shall be solely responsible for the cost and expense of such repair or maintenance. Tenant may not erect or maintain signs relating to the Parking Spaces without the prior written consent of Landlord.

ARTICLE VI. Location of Parking Spaces.

The Parking Spaces are not reserved parking spaces to be located in any particular area within the Spring Street Parking Garage, and the Parking Spaces shall be in such location or locations as may be available on a first come, first served basis. Landlord makes no guaranty as to whether the Parking Spaces shall always be available in a covered location within the Spring Street Parking Garage.

<u>ARTICLE VII.</u> Sublease and Assignment. Tenant may assign its rights pursuant to this Lease, in whole or in part (e.g., with respect to one or more of the Parking Spaces), to owners of residential units in the Condominium. Further, any residential unit owner may thereafter assign its rights pursuant to this Lease to another owner of a residential unit in the Condominium. Tenant may not otherwise assign or encumber this Lease or sublet the Parking Spaces or any part thereof at any time without the consent of Landlord. Daily rental of the Parking Spaces is prohibited. From and after the expiration of the initial three (3) year term of this Lease, to the extent The Kimball Building, LLC has assigned or thereafter assigns its rights to a particular Parking Space or Parking Spaces to an owner of a residential unit in the Condominium, The Kimball Building, LLC shall be discharged and released from all liability and obligations under this Lease with respect to said Parking Space(s), and the assignee and their successors and assigns shall thereafter assume any and all obligations with respect to such Parking Space(s) under this Lease. Landlord agrees to treat each of Tenant's assignees as a separate, independent assignee of this Lease, so that a default or violation by one assignee shall not affect another assignee's rights and obligations under this Lease.

ARTICLE VIII. RESERVED

<u>ARTICLE IX. Unlawful or Dangerous Activity</u>. Tenant shall neither use nor occupy the Parking Spaces or any part thereof for any unlawful or hazardous business purpose nor operate or conduct its business in a manner constituting a nuisance of any kind. Tenant shall immediately upon discovery of all unlawful or hazardous use take action to halt such activity.

<u>ARTICLE X.</u> Surrender of Parking Space. Upon the expiration of the term or other termination of this Lease, whether by reason of lapse of time or Tenant's default or otherwise, Tenant shall quit and surrender the Parking Space to Landlord and remove the Tenant's vehicle from the garage. Such surrender or termination shall not affect any other assignee's rights under this Lease.

<u>ARTICLE XI. No Waiver</u>. Failure of either party to complain of any act or omission on the part of the other party, no matter how long the same may continue, shall not be deemed to be a waiver by said party of any of its rights hereunder. No waiver by either party at any time, express or implied, of any breach of any provision of this Lease shall be deemed a waiver of such provision or of a subsequent breach of the same or any other provision. If any action by either party shall require the consent or approval of the other party, the other party's consent to or approval of said action on any one occasion shall not be deemed a consent to or approval of said action on any subsequent occasion. Any and all rights and remedies which either party may have under this Lease or by operation of law, either at law or in equity, upon any breach shall be distinct, cumulative and shall not be deemed inconsistent with each other; and no one of them, whether exercised by a party or not, shall be deemed to be in exclusion of any other; and any two or more or all of such rights and remedies may be exercised at the same time.

<u>ARTICLE XII.</u> Notices. Any notice from one party to the other party hereunder shall be in writing and shall be deemed to be duly given and delivered when mailed by registered or certified mail, postpaid, addressed to the address of such party below set forth;

LANDLORD: CITY OF PORTLAND 389 Congress Street Portland, Maine 04101 Attn: Parking Commissioner, City of Portland

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TENANT: THE KIMBALL BUILDING, LLC 490 Congress Street Portland, Maine 04102

Either party may change its above address by giving notice of the change to the other party, such change of address to become effective for all purposes hereunder ten (10) days after such notice is given.

ARTICLE XIII. Rights of Landlord Upon Default or Breach by Tenant. In the event of any failure of the Tenant to pay any rental or other charges due hereunder within ten (10) days of the date when due, or any failure to perform any other of the terms, conditions, or covenants of this Lease to be observed or performed by Tenant for more than ten (10) days after written notice of such default shall have been given to Tenant, or if Tenant shall become bankrupt or insolvent, or file any debtor proceeding or have taken against Tenant in any court pursuant to any statute, either of the United States or any State, a petition in bankruptcy or insolvency or for the reorganization or for the appointment of a receiver or trustee of all or a portion of Tenant's property or if Tenant makes an assignment for the benefit of creditors, or petitions for or enters into an arrangement, or if Tenant shall abandon the Parking Spaces or suffer this Lease to be taken under any writ of execution, then Landlord in addition to any other rights or remedies Landlord may have, shall have the immediate right of reentry by Landlord, and Landlord may enter the Parking Spaces and expel Tenant and those claiming under Tenant, and remove Tenant's vehicle and their effects, and/or notify Tenant that the term of this Lease has terminated, and in either case the term hereof shall terminate upon such entry or the giving of such notice, whichever shall first occur and Tenant shall thereupon quit and surrender the Parking Spaces to Landlord. In addition, without limiting the foregoing rights, Landlord may deny Tenant or its assigns access to the garage if payment of monthly rent is more than five (5) days late. Landlord covenants and agrees to treat Tenant's assignees and their assignees separately with respect to the default provisions set forth in this Lease, so that the default of one assignee shall not affect another assignee's rights and obligations under this Lease, and this Lease shall continue with respect to such other assignees pursuant to the terms and conditions hereof. In case of termination of the term of this Lease for any such cause, and in either manner above provided, Landlord shall be deemed to have waived no rights or other remedies hereunder, and shall be entitled to recover Landlord's reasonable attorneys and paralegal fees and any other expenses of Landlord incurred in connection with the retaking of possession of the Parking Spaces.

<u>ARTICLE XIV.</u> Landlord's Covenants of Quiet Enjoyment and Access by Landlord. Upon payment by Tenant of the rents herein provided and upon the observance

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and performance of all the covenants, terms and conditions on Tenant's part be observed and performed, Tenant shall peaceably and quietly hold and enjoy the Parking Spaces for the term hereof without hindrance or interruption by Landlord or any person or persons lawfully or equitably claiming by, through or under the Landlord, subject, nevertheless, to the terms and conditions of this Lease. If Tenant is required to bring any action to enforce its rights under this Lease (whether or not litigation is commenced), Tenant shall be entitled to recover Tenant's reasonable attorneys and paralegal fees incurred in connection with any such action.

<u>ARTICLE XV.</u> Total Agreement, Applicable to Successors. This Lease contains the entire agreement between the parties and cannot be changed or terminated except by a written instrument subsequently executed by the parties hereto. This Lease and the terms and conditions hereof apply to and are binding on the heirs, successors and assigns of the parties hereto.

<u>ARTICLE XVI.</u> Severability. If any term or provision of this Lease or the application thereof to any person or circumstances shall, to any extent be invalid or unenforceable, the remainder of this Lease, or the application of such term or provision to persons or circumstances other than those as to which it is invalid or unenforceable, shall not be affected thereby, and each term and provision of this Lease shall be valid and be enforced to the fullest extent permitted by law.

It is agreed that this Lease shall not be recorded. The parties will execute a memorandum of lease for recording purposes.

<u>ARTICLE XVII. General</u>. This Lease shall inure to and be binding upon the respective heirs, executors, administrators, successors and permitted assigns of the parties. This Lease is made in and shall be governed by and construed in accordance with the laws of the State of MAINE. Whenever the singular number is used, the same shall include the plural as well as the singular, as the context shall require. The neuter shall include the masculine and feminine, and vice versa, when the context so requires or permits. The caption and headings contained in this Lease are for convenience only and shall not be taken into account in construing the meaning of this Lease or any part thereof. As to the obligations of each party hereunder to perform its undertakings, promises, covenants, and obligations hereunder, time is of the essence.

IN WITNESS WHEREOF, the parties have hereunder set their hands and seals all on the day and year first above written.

SIGNED, SEALED AND DELIVERED LANDLORD IN THE PRESENCE OF

CITY OF PORTLAND

Personally appeared the above-named, ______, authorized representative of the City of Portland, and acknowledged the execution of the foregoing instrument to be his/her free act and deed and the free act and deed of said City of Portland.

Before me,

Notary Public/Attorney at Law

Printed Name

STATE OF MAINE CUMBERLAND, SS.

Personally appeared the above-named, Matthew W. Alcorn, Member of The Kimball Building, LLC, and acknowledged the execution of the foregoing instrument to be his free act and deed and the free act and deed of said The Kimball Building, LLC.

Before me,

Notary Public/Attorney at Law

Printed Name

L & L STRUCTURAL ENGINEERING SERVICES, INC. Six Q Street South Portland, ME 04106 Phone: (207) 767-4830 Fax: (207) 799-5432

August 16, 2005

Mr. James Sterling James Sterling Architect P.O. Box 7305 Portland, Maine 04112

Subject: 490 Congress Street, Portland, Maine

Dear Mr. Sterling,

As per the request of Mike Nugent the Code Enforcement Officer in Portland, Maine we are describing our general design parameters for the additions to the building located at 490 Congress Street in Portland, Maine. Specifically regarding the imposition of the required gravity and lateral loads on the building due to the proposed additions. Our design utilized the 2003 International Building Code (IBC) adopted by the City of Portland. The existing building is a two story combined timber and steel frame superstructure supported on a combined pile foundation and granite spread footing foundation system. The proposed addition includes the construction of two stories plus a penthouse on top of the existing two stories (i.e. four stories total plus a penthouse above). The existing interior columns shall be reinforced and existing beams above the first floor shall be reinforced as shown on the contract documents to support the code stipulated gravity loads imposed upon the entire building (existing plus new). Furthermore, we have designed a timber bearing wall adjacent to the common brick walls between the neighboring buildings for the full height of the building. The purpose of the new timber wall is to support the gravity loads in the building loads on the existing common brick wall. In addition, we have designed a lateral system to resist the code stipulated lateral wind and seismic loads imposed upon the building independently from the adjacent buildings utilizing timber shear walls and structural steel moment frames.

If you have any further questions or require any additional information and/or technical assistance, please do not hesitate to call.

Sincerely,

actaral agineering Services, Inc.






• Gouladonical Engineering • Field & Lab Jassing • Scientific & Environmental Consulting

FACSIMILE MESSAGE

COMPANY	Lt
ATTENTION	JOE LEAGURE
SWC JOB NUMBER	05-0044
FAX NUMBER	799-5432
DATE	8/15/05
SENDER	PKOHLDR
SUBJECT:	490 CONVERESS ST
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DETAIL	FOR THE A PROPOSED FILES AT
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	CALL IF YOU HAVE QUESTIONS
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The information contained in this face/mile transmission is privileged and confidential and intended for the use of the addressed named above. If the receiver of the following pages is not (one of the above named recipient(s), you are namely notified that any relention, dissemination, distribution or copying of this face/mile is prohibited. If you received this face/mile in error, please notify us immediately by telephone. Thank you,

GRAY, MÉ OFFICE 288 Portland Road, Gray, ME 04039, Tel (207) 857-2866, Fax (207) \$57-2840, (E<u>)triograv@swcole.com</u>, (') <u>www.swcole.com</u>

Other offices in Avguste, Bangor and Carlbou, Maine & K. Somersworth, New Hempshire

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L & L STRUCTURAL ENGINEERING SERVICES, INC.

> Six Q Street * South Portland, ME-04106 Phone: (207) 767-4830 Fax: (207) 799-5432

STATEMENT OF SPECIAL INSPECTIONS

PROJECT:	490 Cong	ress Street/ Kimball B	uilding	
LOCATION:	490 Cong	ress Street		
PERMIT APPLICANT:	Kimball B	Building, LLC		
APPLICANTS ADDRESS:	c/o James	Sterling Architect AIA:	142 High Street-Portland, Maine	04101
STRUCTURAL ENGINEER OF	RECORD:	Mark F. Leasure, P.E. Name	L&L Structural Engineering Service Firm	<u>s, Inc.</u>
ARCHITECT OF RECORD:		James Sterling P.A	James Sterling Architect, AIA	

Name

This Statement of Special Inspections is submitted in accordance with **CHAPTER 17** of the 2003 International Building Code (IBC 2003). It includes a listing of special inspections applicable to this project, as well as, the name of the Special Inspector, and the names of other agencies intended to be retained for conducting these inspections.

Firm

The special inspector shall keep records of all inspections listed herein, and shall furnish inspection reports to the Code Official and to the Registered Design Professional of Record. All discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected the discrepancies shall be brought to the attention of the Code Official and the Registered Design Professional of Record. Interim reports shall be submitted to the Code Official and Registered Design Professional of Record monthly, unless more frequent submissions are requested by the Code Official.

Job site safety is solely the responsibility of the Contractor. Materials and activities to be inspected are not to include the Contractor's equipment and methods used to erect or install the materials listed. The special inspections on this project shall be provided by: S.W. Cole Engineering (Agent #1).

MIIIIIIIIII OF MA Prepared BY: Mark F. Leasure, P.E. MARK NAME LEASURE NC 6836 SIGNATURE DATE . SSIONAL Building Code Official Applicant's Authorization: SIGNATURE DATE GNATURE

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

سا سال

I.	Soils and Foundations		Spray Fire Resistant Material
\square	Cast-in-Place Concrete	\square	Wood Construction
	Precast Concrete		Exterior Insulation and Finish System
\square	Masonry		Mechanical & Electrical Systems
Ø	Structural Steel		Architectural Systems
	Cold-Formed Steel Framing		Special Cases

Sp	ecial Inspection Agencies	Firm	Address, Telephone, e-mail
1.	Special Inspection Coordinator	L&L Structural Engineering Services, Inc.	Six Q Street South Portland, Maine 04106 Tel: (207) 767-4830 Fax: (207) 799-5432
2.	Inspector #1	S.W. Cole Engineering	286 Portland Road Gray, Maine 04039-9586 Tel: (207) 657-2886 Fax (207) 657-2840
3.	Inspector #2		TBA
4.	Testing Agency #1	S.W. Cole Engineering	286 Portland Road Gray, Maine 04039-9586 Tel: (207) 657-2886 Fax (207) 657-2840
5.	Testing Agency		
6.	Other		

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

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Quality Assurance for Seismic Resistance

Seismic Design Category	C / Site Class 'D'
Quality Assurance Plan Required (Y/N)	Y

Description of seismic force resisting system and designated seismic systems: The Seismic resisting system consists of light framed shear walls (exterior sheathing). The system used transfers lateral loads around windows utilizing the strength of the plywood panels or gypsum sheathing. The remainder of the walls in the North/ East direction below the elevated level utilizes plywood shearwalls transferring lateral loads to the foundation system.

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)	100 mph
Wind Exposure Category	В
Quality Assurance Plan Required (Y/N)	Ν

Description of wind force resisting system and designated wind resisting components: The wind resisting system consists of light framed shear walls (exterior sheathing). The system used transfers lateral loads around windows utilizing the strength of the plywood panels or gypsum sheathing. The remainder of the walls in the North/East direction below the elevated level utilizes plywood shearwalls transferring lateral loads to the foundation system.

The Quality assurance plan is not required per IBC 2003, 1706.1.1. paragraph 1.

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

		SCHEDULE OF S	PECI	AL INSPECTIONS		-		
Project: 490 CONGRES	SS STRE	ET IBC 2003 (CHAPT	ER 17	Page: 1	of 2		
MATERIAL/ ACTIVITY	ITEM	SERVICE		APPLICABLE TO THIS PROJECT				
			Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT #	DATE	REV
				and testing frequency (Freq:)			COMPLETED	#
STEEL CONST.								
Steel Fabrication	1.01	Submit Manuf. Cert. Mill Test Reports	Y	ALL		1		
	1.02	Submit welders certification	Y	ALL		1		
Weld Inspection	1.03	Inspection of field welded conn's	Y	50% Visual Inspection for fillet welds		1		
Structural Steel				50% Ultrasonic for moment conn's				
Joint Detail Compliance	1.04	Review joint details for Compliance	Y	Sample		1		
w/ approved Const Doc's	<u> </u>	w/ approved const. document.	_				1	— —
CONCRETE CONST.	1.01					-		
Reinforcing Bars	1.02	Review bar size, location & splice	Ιγ	Freq: Prior to each Conc. placement		1		
		length as indicated on the approved	· ·	····				
		shop drawings and design drawings						<u> </u>
Column Anchor Bolts	1.03	Review size and location	Ιγ	Freq: Prior to Conc. Placmeent		1		
	1.00							
Concrete mix design	1.04	SER shall review and approve mix	Y	Freq: Once prior to Conc Placement		2		
		to be used on the project						
Concrete Placement	1.05	Sample fresh concrete at time of	Y	Freq: Test as indicated in the project		1		
		placement in accordance w/ the		Manual.				
		project drawings & specification for						
		Stregth tests, Slump, Air Content						
		and concrete temperature.						
Concrete Placement	1.06	Inspect placement of fresh concrete	Y	Freq:Performed in accodance wth the.		1		
Techniques		(ACI 318: 5.9, 5.10)		Project Specifications.				
Concrete Curing	1.07	Review for compliance w/ project	Y	Review after each slab placement		1		
Techniques		specifications (ACI 318: 5.11-5.13)						
						_		
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Project: 490 CONGRESS STREET						Page: 2of 2		
MATERIAL/ ACTIVITY	ITEM	SERVICE		APPLICABLE TO THIS PROJECT				
			Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT #	DATE	
							COMPLETED	
TIMBER CONSTRCTION	1.08							
Floor Sheathing	1.10	Review sheathing for nail spacing,	Y	Freq: After erection of each level		1		
		required glueing to support, and		of framing.				
		conformance with the project		1 [_
		Specifications.		[
								_
Roof Sheathing	1.11	Review sheathing for nail spacing	Y	Freq: After erection of each level		1	1	
	•	and conformance to the project		of framing.				
		project specifications		1 4			└─── └′	· ´Î
Wall Sheathing	1.12	Review sheathing for nail spacing	Ý	Freq: After erection of each level		1		
		on wall studs, around windows		of framing.			· · ·	
		and conformance to the project					┢───┟	
		specifications.					╞───┢	
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		Varify that the site has been	v	Freq: Inspect prior to placing	-	-	┟───╂─	
Sile Preparation	1.14	prepared in compliance with the	1.	concrete footings				
		approved soils report						_
Fill Placement	1 15	Verify that the maximum fill lift is	Ιγ	Freq: inspect during the placement	<u> </u>	1		
		in compliance w/ the design		of fill material	-			
		documents, as well as, materials.		1 1				
Soil compaction	1.16	Verify that the in-place dry	Y	Freq: Inspect prior to placing		1		
•		density is in compliance with the		concrete footings or slabs.				
	1	design drawings.		[
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SECTION 14240

HYDRAULIC ELEVATORS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes hydraulic passenger elevators.

1.2 **DEFINITIONS**

A. Defective Elevator Work: Operation or control system failures; performances below specified ratings; excessive wear; unusual deterioration or aging of materials or finishes; unsafe conditions; the need for excessive maintenance; abnormal noise or vibration; and similar unusual, unexpected, and unsatisfactory conditions.

1.3 SUBMITTALS

- A. Product Data: Include capacities, sizes, performances, operations, safety features, finishes, and similar information.
- B. Shop Drawings: Show plans, elevations, sections, and large-scale details indicating service at each landing, machine room layout, coordination with building structure, relationships with other construction, and locations of equipment and signals. Indicate variations from specified requirements, maximum dynamic and static loads imposed on building structure at points of support, and maximum and average power demands.
- C. Samples: For exposed finishes of cars, hoistway doors and frames, and signal equipment; 3inch- (75-mm-) square samples of sheet materials; and 4-inch (100-mm) lengths of running trim members.
- D. Manufacturer Certificates: Signed by elevator manufacturer certifying that hoistway, pit, and machine room layout and dimensions, as shown on Drawings, and electrical service, as shown and specified, are adequate for elevator system being provided.
- E. Maintenance Manuals: Include operation and maintenance instructions, parts listing with sources indicated, recommended parts inventory listing, emergency instructions, and similar information. Include diagnostic and repair information available to manufacturer's and Installer's maintenance personnel. Submit for Owner's information at Project closeout as specified in Division 1.
- F. Inspection and Acceptance Certificates and Operating Permits: As required by authorities having jurisdiction for normal, unrestricted elevator use.

490 CONGRESS STREET

HYDRAULIC ELEVATORS

14240 - 1

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Elevator manufacturer or an experienced installer approved by elevator manufacturer who has completed elevator installations similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.
- B. Regulatory Requirements: In addition to local governing regulations, comply with applicable provisions in ASME A17.1, "Safety Code for Elevators and Escalators."
 1. Seismic Risk Zone: Project is located in Zone 2.
- C. The elevator installation shall be a design that can be maintainable by any licensed elevator maintenance company employing journeymen mechanics, without the need to purchase or lease additional diagnostic devices, special tools, or instructions from the original equipment manufacturer.
- D. Fire-Rated Hoistway Entrance Assemblies: Door and frame assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing at as close to neutral pressure as possible according to NFPA 252 or UL 10B.
- E. Provide door and frame assembly to also comply with UL 1784 for smoke passage.

1.5 COORDINATION

- A. Coordinate installation of sleeves, block outs, and items that are embedded in concrete or masonry for elevator equipment. Furnish templates and installation instructions and deliver to Project site in time for installation.
- B. Coordinate locations and dimensions of other work relating to hydraulic elevators including pit ladders, sumps, and floor drains in pits; entrance subsills; and electrical service, electrical outlets, lights, and switches in pits and machine rooms.
- C. Coordinate size of elevator pit with manufacturer selected. Provide any necessary revisions to pit or shaft size at no additional cost to the Owner.

1.6 WARRANTY

- A. Special Manufacturer's Warranty: Written warranty, signed by manufacturer agreeing to repair, restore, or replace defective elevator work within specified warranty period.
 - 1. Warranty Period: 12 months from date of Substantial Completion.

1.7 MAINTENANCE SERVICE

- A. Initial Maintenance Service: Beginning at Substantial Completion, provide 12 months' full maintenance service by skilled employees of the elevator Installer. Include monthly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper elevator operation at rated speed and capacity. Provide parts and supplies as used in the manufacture and installation of original equipment.
 - 1. Perform maintenance, including emergency callback service, during normal working hours.

490 CONGRESS STREETHYDRAULIC ELEVATORS14240 - 2

- 2. Include 24-hour-per-day, 7-day-per-week emergency callback service.
 - a. Response Time: Two hours or less.
- B. Continuing Maintenance Proposal: Provide a continuing maintenance proposal from Installer to Owner, in the form of a standard yearly (or other period) maintenance agreement, starting on date initial maintenance service is concluded. State services, obligations, conditions, and terms for agreement period and for future renewal options.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering hydraulic elevators that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Canton Elevator Co.
 - 2. Otis Elevator Co.
 - 3. ThyssenKrupp Elevator.

2.2 MATERIALS AND COMPONENTS

- A. General: Provide manufacturer's standard elevator systems. Where components are not otherwise indicated, provide standard components, published by manufacturer as included in standard preengineered elevator systems and as required for a complete system.
- B. Pump Units: Positive-displacement type with a maximum of 10 percent variation between no load and full load and with minimum pulsations. Provide either of the following:
 - 1. Submersible pump, with submersible squirrel-cage induction motor, suspended inside tank from vibration isolation mounts.
 - 2. Provide motor with solid-state starting.
 - 3. Provide motor with circuit requirements to match indicated power circuits provided or include cost for revisions to electrical design.
 - 4. Provide variable-voltage variable-frequency motor control.
- C. Hydraulic Silencers: Provide hydraulic silencer containing pulsation-absorbing material in a blowout-proof housing at pump unit.
- D. Piping: Provide size, type, and weight piping recommended by manufacturer, and provide flexible connectors to minimize sound and vibration transmissions from power unit.
 - 1. Provide dielectric couplings at plunger/cylinder units.
 - 2. Casing for Underground Piping: PVC pipe complying with ASTM D 1785 joined with PVC fittings complying with ASTM D 2466 and solvent cement complying with ASTM D 2564.
- E. Inserts: Furnish required concrete and masonry inserts and similar anchorage devices for installing guide rails, machinery, and other components of elevator work where installation of devices is specified in another Specification Section.

490 CONGRESS STREET

HYDRAULIC ELEVATORS

- F. Guide Rails: Manufacturer's standard, selected for loads and for full height span between support locations indicated by building structural design.
- G. Car Frame and Platform: Welded steel units.
- H. Finish Materials: Provide the following materials and finishes for exposed parts of elevator car enclosures, car doors, hoistway entrance doors and frames, and signal equipment as indicated:
 - 1. Satin Stainless Steel: ASTM A 666, Type 304, with No. 4, directional satin finish.
 - 2. Plastic Laminate: High-pressure type complying with NEMA LD 3, Type HGS for flat applications; color, texture, and pattern as selected by Architect from plastic-laminate manufacturer's full range of products.

2.3 OPERATION SYSTEMS

- A. Passenger Elevators: Provide manufacturer's standard microprocessor operation system for each elevator or group of elevators as required to provide type of operation system indicated.
 - 1. Single Elevator: Provide "selective collective automatic operation" as defined in ASME A17.1.
- B. Auxiliary Operations: In addition to primary operation system features, provide the following operational features for elevators where indicated.
 - 1. Independent Service: Keyswitch in car control station removes car from group operation and allows it to respond only to car calls. Key cannot be removed from keyswitch when car is in independent service. When in independent service, doors close only in response to the door close button.

2.4 SIGNAL EQUIPMENT

- A. General: Provide signal equipment for each elevator or group of elevators with hall-call and car-call buttons that light when activated and remain lit until call has been fulfilled. Fabricate lighted elements of acrylic or other permanent, nonyellowing translucent plastic.
- B. Car Control Stations: Provide manufacturer's standard semirecessed car control stations. Mount in return panel adjacent to car door, if not otherwise indicated.
 - 1. Include call buttons for each landing served and other buttons, switches, and controls required for specified car operation.
 - 2. Mark buttons and switches with manufacturer's standard identification for required use or function that complies with ASME A17.1.
 - 3. Mount controls at heights complying with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines (ADAAG)."
- C. Emergency Communication System: Provide system that complies with ASME A17.1 and the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines (ADAAG)." On activation, system dials preprogrammed number of monitoring station and identifies elevator location to monitoring station. System provides two-way voice communication without using a handset and provides visible signals that indicate when system has been activated and when monitoring station has responded. System is contained in flush-mounted cabinet, with identification, instructions for use, and battery backup power supply.

490 CONGRESS STREET

HYDRAULIC ELEVATORS

- D. Car Position Indicator: For passenger elevator cars, provide illuminated-signal type, digitaldisplay type, or segmented type, located above car door or above car control station. Also provide audible signal to indicate to passengers that car is either stopping at or passing each of the floors served.
 - 1. Include travel direction arrows if not provided in car control station.
- E. Hall Push-Button Stations: Provide one hall push-button station at each landing for each elevator or group of elevators, but not less than one station for each four elevators in a group. For each group of passenger elevators, locate between two elevators at center of group or at location most convenient for approaching passengers.
 - 1. Provide units with flat faceplate for mounting with body of unit recessed in wall.
- F. Hall Lanterns: Provide units with illuminated arrows, but provide single arrow at terminal landings.
 - 1. Place lanterns either above or beside each hoistway entrance, unless otherwise indicated. Mount at a minimum of 72 inches (1829 mm) above finished floor.
 - 2. With each lantern, provide audible signals indicating car arrival and direction of travel. Signals sound once for up and twice for down.
 - a. At manufacturer's option, audible signals may be placed on each car.
- G. Hall Position Indicators: Provide illuminated-signal type or digital-display type, located above each hoistway entrance at ground floor. Provide units with flat faceplate for mounting with body of unit recessed in wall.
 - 1. Integrate ground-floor hall lanterns with hall position indicators.
- H. Corridor Call Station Pictograph Signs: Provide signs matching hall push-button stations with text and graphics according to ASME A17.1, Appendix H.

2.5 DOOR REOPENING DEVICES

A. Infrared Array: Provide door reopening devices with a uniform array of 36 or more microprocessor-controlled, infrared light beams projecting across car entrance. Interruption of one or more of the light beams shall cause doors to stop and reopen.

2.6 PASSENGER ELEVATOR CAR ENCLOSURES

- A. General: Provide manufacturer's standard steel-framed car enclosures with nonremovable wall panels, suspended ceiling, trim, accessories, access doors, doors, power door operators, sills (thresholds), lighting, and ventilation.
 - 1. Floor finish is specified in another Section.
 - 2. Plastic-Laminate Wall Panels: Plastic laminate adhesively applied to 1/2-inch (13-mm) fire-retardant-treated particleboard with manufacturer's standard protective edge trim. Panels have a flame-spread rating of 25 or less, when tested according to ASTM E 84.
 - 3. Fabricate car with recesses and cutouts for signal equipment.
 - 4. Fabricate car door frame integrally with front wall of car.
 - 5. Stainless-Steel Doors: Flush, hollow-metal construction, fabricated from stainless steel.
 - 6. Sills: Extruded metal, with grooved surface, 1/4 inch (6.4 mm) thick. Provide polished finish.

490 CONGRESS STREET

HYDRAULIC ELEVATORS

14240 - 5

- 7. Luminous Ceiling: Fluorescent light fixtures and ceiling panels of translucent acrylic or other permanent rigid plastic complying with flammability requirements.
- 8. Handrails: Manufacturer's standard handrails, of metal indicated.

2.7 PASSENGER HOISTWAY ENTRANCES

- A. General: Provide manufacturer's standard horizontal-sliding, door-and-frame hoistway entrances complete with track systems, hardware, sills, and accessories. Provide frame size and profile to coordinate with hoistway wall construction.
- B. Materials and Fabrication: Provide manufacturer's standards but not less than the following:
 - 1. Stainless-Steel Frames: Formed stainless-steel sheet.
 - 2. Stainless-Steel Doors: Flush, hollow-metal construction, fabricated from stainless steel.
 - 3. Sills: Extruded metal, with grooved surface, 1/4 inch (6.4 mm) thick. Provide polished finish.
 - 4. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107.
- C. Smoke Guard System: Provide Model 200 by Smoke Guard (800-574-0330), or approved substitute, to provide smoke protection at each hoistway entrance to comply with UL 1784.

2.8 PASSENGER ELEVATORS

- A. Elevator:
 - 1. Type: Holeless, roped hydraulic, dual cylinder.
 - 2. Rated Load: 2500 lb (1135 kg).
 - 3. Rated Speed: 125 fpm (0.64 m/s)
 - 4. Number of Stops: 5
 - 5. Front Openings: 5
 - 6. Rear Openings: 0
 - 7. Operation System: Selective collective automatic operation.
 - 8. Auxiliary Operations:
 - a. Independent service.
 - 9. Car Enclosures: As follows:
 - a. Inside Width: Manufacturers standard.
 - b. Inside Depth: Manufacturers standard.
 - c. Inside Height: Manufacturers standard.
 - d. Front Walls: Satin stainless steel with integral car door frames.
 - e. Car Fixtures: Satin stainless steel.
 - f. Side and Rear Wall Panels: Plastic laminate.
 - g. Reveals: Enameled steel.
 - h. Door Faces (Interior): Satin stainless steel.
 - i. Door Sills: Aluminum.
 - j. Ceiling: Luminous ceiling.
 - k. Handrails: Satin stainless steel, at side and rear walls.
 - 1. Floor prepared to receive paver tile (specified in Division 9 Section "Ceramic Tile").
 - 10. Hoistway Entrances: As follows:
 - a. Width: 36 inches (914 mm).
 - b. Height: 84 inches (2134 mm).

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HYDRAULIC ELEVATORS

- c. Type: Single-speed side sliding.
- d. Frames: Satin stainless steel.
- e. Doors: Satin stainless steel.
- f. Sills: Aluminum.
- 11. Hall Fixtures: Satin stainless steel.
- 12. Additional Requirements: As follows:
 - a. Provide inspection certificate in each car, mounted under acrylic cover with satin stainless-steel frame.
 - b. Provide protective blanket hooks in car and one complete set of full-height blankets.
- 13. Electrical Requirements:
 - a. 30 hp.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine elevator areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance. Verify critical dimensions, and examine supporting structure and other conditions under which elevator work is to be installed. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install cylinders plumb and accurately centered for elevator car position and travel. Anchor securely in place, supported at pit floor. Seal between protective casing and pit floor with 4 inches (100 mm) of nonshrink, nonmetallic grout.
- B. Welded Construction: Provide welded connections for installing elevator work where bolted connections are not required for subsequent removal or for normal operation, adjustment, inspection, maintenance, and replacement of worn parts. Comply with AWS standards for workmanship and for qualifications of welding operators.
- C. Sound Isolation: Mount rotating and vibrating equipment on vibration-isolating mounts designed to effectively prevent transmission of vibrations to structure and thereby eliminate sources of structure-borne noise from elevator system.
- D. Install piping above the floor, where possible. Where not possible, install underground piping in Schedule 40 PVC pipe casing assembled with solvent-cement fittings.
- E. Lubricate operating parts of systems as recommended by manufacturers.
- F. Alignment: Coordinate installation of hoistway entrances with installation of elevator guide rails for accurate alignment of entrances with cars. Where possible, delay installation of sills and frames until car is operable in shaft. Reduce clearances to minimum, safe, workable dimension at each landing.
- G. Leveling Tolerance: 1/4 inch (6 mm), up or down, regardless of load and direction of travel.

HYDRAULIC ELEVATORS

H. Set sills flush with finished floor surface at landing. Fill space under sill solidly with nonshrink, nonmetallic grout.

3.3 FIELD QUALITY CONTROL

- A. Acceptance Testing: On completion of elevator installation and before permitting use (either temporary or permanent) of elevators, perform acceptance tests as required and recommended by ASME A17.1 and by governing regulations and agencies.
- B. Advise Owner, Architect, and authorities having jurisdiction in advance of dates and times tests are to be performed on elevators.

3.4 DEMONSTRATION

- A. Instruct Owner's personnel in proper use, operations, and daily maintenance of elevators. Review emergency provisions, including emergency access and procedures to be followed at time of operational failure and other building emergencies. Train Owner's personnel in procedures to follow in identifying sources of operational failures or malfunctions. Confer with Owner on requirements for a complete elevator maintenance program.
- B. Make a final check of each elevator operation with Owner's personnel present and before date of Substantial Completion. Determine that operation systems and devices are functioning properly.

3.5 **PROTECTION**

- A. Temporary Use: Do not use elevators for construction purposes unless cars are provided with temporary enclosures, either within finished cars or in place of finished cars, to protect finishes from damage.
 - 1. Provide full maintenance service by skilled, competent employees of elevator Installer for elevators used for construction purposes. Include preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper elevator operation at rated speed and capacity. Use same parts and supplies as used in the manufacture and installation of original equipment.
 - 2. Provide protective coverings, barriers, devices, signs, and other procedures to protect elevators. If, despite such protection, elevators become damaged, engage elevator Installer to restore damaged work so that no evidence remains of correction work. Return items that cannot be refinished in the field to the shop, make required repairs and refinish entire unit, or provide new units as required.

END OF SECTION

490 CONGRESS STREET



CITY OF PORTLAND BUILDING CODE CERTIFICATE 389 Congress St., Room 315 Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine Department of Planning & Urban Development Division of Housing & Community Service

FROM: James Sterling, AIA, Archt.

RE: <u>Certificate of Design</u>

DATE: 24 May 2005

These plans and / or specifications covering construction work on:

Renovations: 490 Congress Street

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the <u>2003 International Building Code</u> and local amendments.



\$50,000.00 or more in new construction, repair expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

Signati	
Title: _	Architect
Firm: _	James Sterling Architect
Addres	s: 142 High Street, Suite 612
	Portland, Maine 04101

389 Congress Street • Portland, Maine 04101 • (207) 874-8703 • FACSIMILE (207) 874-8716 • TTY (207) 874-8936



faxed and mailed 6 October 2005

Mr. Matt Stacy Solid Earth Technologies, Inc. 3 Howe Drive, Unit 3 Amherst, New Hampshire 03031

Re: Kimball Building @ 490 Congress Street, Portland, Maine Helical Pier Capacities

Dear Matt:

Piles proposed for installation at the referenced project were determined by L & L Structural Engineering Services, Inc. to require a minimum ultimate capacity of 40,000 pounds base on a maximum spacing of 6'-0".

Helical piers manufactured by Hubbell Power Systems consist of structural shafts with single or multiple steel plate helices that are drilled into soil to a depth and resistance as required to satisfy load requirements. The 40 kip required ultimate capacity noted above is significantly less than the ultimate bearing capacity of helical piers with a 1-3/4" square shaft and up to three helices at a maximum depth of 30'± feet in soil similar to that described in boring log 8-2 from S. W. Cole Engineering, Inc. Calculations for helix soil bearing capacities are based on bearing plate theory and incorporate modified Meyerhoff factors for deep foundations. This analytical process results in ultimate pler capacities consistent with rated values for piers and individual components provided by Hubbell Power Systems. Tests and experience indicates that pier installation torques directly correspond to ultimate bearing capacities. Each pier's load carrying capability will consequently be field verified.

Criteria for design and installation of helical piers are covered in Section 1808.2.3 (Special types of piles) in the international Building Code 2003. In addition to load bearing capacity, all other relevant general requirements listed in Section 1807 concerning pile caps, stability, structural integrity, spacing, safety factors, lateral support and seismic details apply and will be satisfied.

As you are aware, SW&C has used helical piers for deep foundations on multiple projects for Solid Earth and other clients. In all instances helical piers have functioned as designed and performed satisfactorily. Please call if you have any questions or need additional information.

WINHIN WINNING Very truly yours, BRECKNOCK -0 Robert P. Brecknock, P.E. AND SONAL EN IN

STRUCTURAL DESIGN =

857 Weilington Road, Manchester, NH 03104 (603) 645-1392 Fax. (603) 645-6586

FAX COVER SHEET SOLID EARTH TECHNOLOGIES, INC 3 Howe Drive, Unit 3 Amherst, NH 03031 Toll Free Phone: 1-877-389-7822 Fax: 1-603-882-7822 From: Vera Pera

Mark Feisure DATE: 10-10-05 TO:

Company:

FAX NUMBER: 207 799 5432 # PAGES (Incl. cover): 9

RE:

S W & C Engineering, P.A.

FAX Cover Sheet

Please deliver the following transmission to:

Name:Rich PorterCompany:Solid Earth Technologies, Inc.Location:AmherstFAX #:882-7822

Transmitted from:

Name:	Bob Brecknock
Company:	S W & C Engineering
Location:	Manchester, NH
Office #:	(603) 645-1392
FAX #:	(603) 645-6586

Total Number of pages, including cover sheet: 1

Time: 12:55 p.m.

Date: 10/10/05

Re: Kimball Building, 490 Congress St., Portland, ME

As you requested SW&C reviewed calculations for helical piers and shafts proposed for use at the referenced project (refer to the 8 sheets that you faxed to this office earlier today). All information is accurate and SW&C takes no exceptions to any items.

Please call if you need anything else.

1- Drecknork HARED BRECKNOCK No. 8394 .ONAL MININ ON AL ET HUL

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grout will not be calcula	ated
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		Checked By:	RB
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Project: Kimball Building Date:___ ののの5 Location: Portiand ME Calculated By: TerP Checked By: RB CHECK CETTICAL BUCKETING LOAD: Davisson Method will be used to check critical buckling LOAD 1 Per= VerEpIp/RZ Note Ip=. THOMM Bp = BOXLO psi Z=4, 50 Ip/kd Kn= Zopci = (Box10°)(.746) (20)(1.20) d= 1.75in. = " 639,429 = 28.3 T = -12 = 15fer 112/28.3 = 6.36 From Fig 6.1 => U == 2 [assumed pin-pin condition] Per = (2) (30x10 poi) (-74614) /28.32 = 55,887 15 = 55.9 Kips (HI Kips of Good. -Assumed is soft motarial in calculation => very conservative

SULID LARTH IELH

PAUE US

\\SERVERPDC\Users\RichP\My Documents\ANCH 10/10/2005 10:26:14 AM Water Table Depth: 0 ft

HeliCAP SUMMARY REPORT

Job Name: Congress Street

Job Number:

Boring No: B-2

Anchor Use: Compression

Capacity Summary

Anchor Number	Anchor Family	Helix Dep th (ft)	Helix C apacity (kips)	Total Anchor Capacity (kips)	Recommended Ultimate Capacity (klps)	Torque (fi-lbs)
Anchor 1	Angle: 85 Datum Depth: 0 Length: 20					
12" helix	SS5	14,9	5.1t 5.9c		,	
10" helix	S S5	17.4	23.1t 67.3c	73.8t	61.21	11540
8" helix	SS5	19.4	45.5t 51.9c	125.20	85.9c	او در

Soil Profile

Top of	Soll	Cohesion	N	Angle of	Unit
Layer	Туре	(lb/ft2)		Internal	Weight
Depth				Friction	(fb/ft3)
(ft)				(Degrees)	
ό	Sand	0	5	28.8	85
1	Clay	750	6	0	92
3.5	Sand	U	11	30,4	101
7.5	Sand	0	17	32.1	107
10	Sand	0	5	28.8	85
12	Sand	0	11	30.4	101
17	Sand	0	80	49.8	140
22	Sand	0	100	55.4	140

Page 1

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SOLID EARTH TECH

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HellCAP Summary Graphs

\\SERVERPDC\Users\RichP\My Documents\ANCH Job Name: Congress Street 10/10/2005 10:26:20 AM Job Number: Anchor#1 Family:SS 175 Boring No: B-2 Water Table Depth: 0 ft Helices: 3 Config: ----+++8,10,12 Angle: 85 Anchor Use: Compression Dafum Depth: 0 Length: 20 Torque (kip-ft) ('''s''''tb'''ts'''2b' Capacity (kps) 11 -:5 : 3 -_10 TD Ð R -115 35 p t 220 20 1: : 23 . 25

Helix Capacity Theoretical Ult. Capacity

1



Product Selection Table 8.5			SS5 Square Shaft	SS150 Square Shaft	SS175 Square Shall	SS200 Square Shaft	SS225 Square Shaft	HS Pipe Shafi
Mechanical Define				x				
Toreional Strength		ft-lh	5500	7000	10000	15000	20000	11000
Roting		(N-m)	(7.500)	(9,500)	(13,600)	(20.300)	(27,100)	(14.900)
Ultimate Compression	·····	Kip	154	198	271	351	448	151
Capacity (shaft)		(kN)	(685)	(880)	(1210)	(1560)	(1990)	(672)
Allowable Compressio	on l	Kip	62	79	108	140	179	60
Load (shaft)		(kN)	(276)	(352)	(481)	(623)	(797)	(267)
Ultimate Capacity*		Kip	40	40	50	60	60	50
(per standard helix)	1	(KN)	(178)	(178)	(223)	(267)	(267)	(223)
Ultimate Capacity		Kip	50		60			
(per high-strength hel	ix)	(kN)	(223)		(267)			
Allowable Load		Kip	20	20	25	30	30	25
(per standard helix)	1	(kN)	(89)	(89)	(111)	(134)	(134)	(111)
Allowable Load*		Кір	25		30			
(per high-strength hel	(X)	(kN)	(111)		(134)			
Tension Rating		KID	(010)	(70)	100	150	200	120
(based on boit strengt	(n)	(KN)	(312)	(3 2)	(445)	(000)	(890)	(534)
Allowable lension Loa		KIP	30	30		75	100	00
based on boit streng	<u>m</u>)		70	(156)	(2::3)	(334)	(+++3)	(207)
viela Strength		KSI (I.d.m.m.)	(U) (402)		90	604	90	
(snart)		(mpa)	(403)			(021)		(345)
TRU Strength		nsi (Mno)	(345)	(552)	(552)	(552)	(552)	(248)
Yield Strength	e''	(mpa) kai	80		80	10021	(004)	(240)
(high-strength helix m	aterial)	(MPa)	(552)		(552)			1

natt Section Properties

	A second s						·····
Area	in ²	2.196	2.196	3.009	3.916	4.979	3.016
	(cm²)	<u>(14.17)</u>	(14.17)	(19.41)	(25,26)	(32.12)	(19.46)
Perimeter	in	5.571	5 571	6.571	7.464	8.464	10.996
	(cm)	(14.15)	(14 15)	(16.69)	(18.96)	(21.50)	(27.930)
Moment of Inertia							
lx-x	in ⁴	0.396	0.396	0.746	1.26	2.04	3.89
	(cm⁴)	(16.5)	(16.5)	(31.1)	(52.4)	(84.9)	(162)
Ту-у	in ⁴	0.396	0.396	0.746	1.26	2.041	3.89
	(cm ⁴)	(16.5)	(16.5)	(31.1)	(52.4)	(84.9)	(162)
lx-y	in⁴	0.396	0.396	0.746	1.26	2.04	3.89
	(cm4)	(16.5)	(16.5)	(31.1)	(52.4)	(84.9)	(162)
Section Modulus							
Sx-x	in ⁴	0.528	0.528	0.852	1.26	1.814	2.225
	(cm ⁴)	(22.0)	(22.0)	(35.5)	(52.4)	(75.5)	(92.61)
Sy-у	in ⁴	0.528	0.528	0.852	1.26	1.814	2.225
	(cm ⁴)	(22.0)	(22.0)	(35.5)	(52.4)	(75.5)	(92.61)
Sx-y	in ⁴	0.414	0 4 1 4	0.657	0.981	1.396	2.225
	(cm4)	(17.2)	(17.2)	(27.3)	(40.8)	(58.1)	(92.61)

"Ultimate Capacity (per standard belix) is for 12-inch (304.3 mm) diameter beliese and smaller.

Reduce value by 20% for 14-inch holix.

Based on a Factor of Safety of two (2).

©Copyright 2003 Hubbell, Inc.

Helical Screw Foundation System Design Manual for New Construction



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profile. If you need engineering assistance, please contact the Hubbell/Chance Civil Construction Distributor in your area. Contact information for Hubbell/Chance Civil Construction Distributors can be found at <u>www.abchance.com</u>. These professionals will help you to collect the data required to perform buckling analysis.

Buckling Analysis by Davisson Method

A number of solutions have been developed for various combinations of pile head and tip boundary conditions and for the cases of constant modulus of subgrade reaction (k_h) with depth. One of these solutions is the Davisson (1963) method as described below. Solutions for various boundary conditions are presented by Davisson in Figure 6.1. the axial load is assumed to be constant in the pile – that is no load transfer due to skin friction occurs and the pile initially is perfectly straight. The solutions shown in Figure 6.1 are in dimensionless form, as a plot of U_{cr} versus I_{max} .

$$U_{cr} = P_{cr}R^2/E_pI_p \qquad \text{Or} \quad P_{cr} = U_{cr}E_pI_p/R^2 \qquad (Equation 6.2)$$

 $R = 4\sqrt{E_p I_p / k_h d}$

 $l_{max} = L/R$

where:

Per = Critical Buckling Load

E_p = Modulus of Elasticity of Foundation Shaft

- I_p = Moment of Inertia of Foundation Shaft
- kh = Modulus of Subgrade Reaction
- d = Foundation Shaft Diameter
- $L_{\rm c}$ = Foundation Shaft Length over which $k_{\rm b}$ is taken as Constant
- $U_{tr} = Dimensionless ratio$

By assuming a constant modulus of subgrade reaction $(k_{\rm b})$ for a given soil profile to determine R, and using Figure 6.1 to determine U_{er}, Equation 6.2 can be solved for the critical



Figure 6.1 Poulos and Davis (1980) buckling load Typical values for k_h are shown in Table 6.1.

 Table 6.1

 Modulus of Subgrade Reaction – Typical Values

Soll Description	Modulus of Subgrade Reaction (k _h) (pcí)			
Very soft clay	15 - 20			
Soft clay	30 - 75			
Loose sand	20			

Figure 6.1 shows that the boundary conditions at the pile head and tip exert a controlling influence on U_{cl} , with the lowest buckling loads occurring for piles with free (unrestrained) ends.

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Helical Screw Foundation System Design Manual for New Construction

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(Equation 6.4)

(Equation 6.3)

Design Example 6.1 Determining Critical Buckling Load, P_{cr}, by Davisson Method



A three-helix Type SS150 $1^{1/2}$ " square shaft helical screw foundation is to be installed into the soil profile as shown above. The top 3 feet is uncontrolled fill and is assumed to be soft clay. The majority of the shaft length (12 feet) is confined by soft clay with a $k_h = 15$ pci. The helix plates will be located in stiff clay below 15 feet. What is the critical buckling load per the Davisson Method?

The buckling model above assumes a pinned-pinned end condition for the pile head and tip. The foundation length is 15 feet, which is the shaft length in the soft clay.

Physical Properties - Hubbell/Chance Type SS150 Square Shaft Foundations					
Modulus of Elasticity (Ep)	Moment of Inertia (I_p)	Shaft Diameter (d)			
30 x 10 ⁸ psi	0.396 in⁴	1.5 in			

Assumptions:

- 1. k_h is constant, i.e. it does vary with depth. This is conservative because k_h usually does vary with depth, and in most cases it increases with depth.
- 2. Pinned-pinned end conditions assumed. In reality, end conditions are more nearly fixed than pinned, thus results are generally conservative.

 $R = 4\sqrt{(30 \times 10^6 \times 0.396)/(15 \times 1.5)} = 26.96$

 $I_{max} = (15 \times 12)/26 \ 96 = 6.7$

From Figure 6.1, $U_{cr} = 2$

 $P_{cr} = (2 \times 30 \times 10^6 \times 0.396)/26.96^2 = 32.69 \text{ kips}$

Helical Screw Foundation System Design Manual for New Construction



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A.B. CHANCE MATERIAL AND TOOLING SPECIFICATIONS

SQUARE-SHAFT "SS" SCREW ANCHORS

For Heavy-Guying Applications

Square-Shaft "SS" multi helix screw anchors are designed for heavy-guy loading. They have 1-1/2" square set Extension shafts must be coupled to the holix section for installation to the proper depth. SS screw anchors consider galvanized components the lead section, the extension shaft, which includes an integral coupling, and the guy adder extensions and guy adapters include a high-strength bolt and nut. Typical working torque is 5500 ft.-lbs. and ultimate tension strongth is 70,000 lbs. **

APPLICATION AND ORDERING INFORMATION

LEAD SECTIONS

			Std. Pkg./	td. Soil Anchor Holding Strengths - (lbs.) vs. Chance Soil Class				.)	
Catalog No.	Length	Helix Combinations	Pallet	Class 7	Class 6	Class 5	Class 4	Class 3	Class 2
P012642-AE*	3 ft.	8" - 10"	1/20	19,000	23,000	27.000	32,000	36.000	41,000
P012642-EJ	31/2 ft.	10' - 12"	1/20	21,000	26,000	31,000	36,000	41,000	46,000
F012042-AEJ*	$5^{1}/2$ ft.	8" - 10" - 12"	1/20	26.000	92,000	39,000	46,000	51,000	58,000
P012642-EJN*	7 ft	10" - 12" - 14	1/20	29,000	57,000	45.000	53,000	61,000	69.000
P012642-AEJN	101/2 ft.	8 10 12 14	1/20	31,000	40.000	49.000	58,000	67,000	
P012642-EJNS*	101/2 ft.	10" - 12" - 14" - 14"	1/20	40,000	51.000	62.000	70,000		

See page B-14 for anchor holding strengths vs standard penetration test and unconfined compression test values. *RUS Accepted.

Note: Holding capacities are based on average test data and are offered as an application guide only.

EXTENSIONS

Catalog No.	Nominal Length	Std. Pkg./Pallet
12655	31/2 ft.	1,50
1.2656	5 fl.	1/50
12657	7 ሺ.	1/40
12658	10 ft.	1/50
+12656N	5 ft.	1/12

(Note: 5 ft. SS Extension with 1-14" Helix.

GUY ADAPTERS

Catalog No.	Nominal Length	Description	Std. Pkg./Pallet
C102-0023	18	THIMBLEYE	5/175
C102-0024	18'	TWINEYE®	5/250
C102-0025	18"	TRIPLEYE	5/250
C110-0026	20"	Threaded Stud	5/130
C110-0041	1.3"	Ovaleye	5/200

*** Note: Ultimate strength ratings apply to properly installed anchors only. Failure to install within 10° of alignment with the guy load may significantly lower strength.

See pages B-25 - B-30 for installation tool options

Catalog Number includes halfx section of anohor and TRIPLEVE® guy adapter. For THIMBLEYE* guy adapter, change the suffix "3" to "1" (i.e : 12654-1AE).

For TWINFYF® guy adapter, change the suffix "3" to "2" (i.e.: 12654-2AE). For Ovaleye guy adapter, change the suffix "3" to "4" (i.e. 12654-4AE).

Helix and extension shafts are banded to wood blocks to facilitate forklift handling. Guy adapters are shipped in corrugated cartons.

Square Shaft 'SS" Anchor Combine						
Catalog	Number	Anchor Ha				
Number	of Helices	(Bettom				
12654-3AE	2	8' - 10				
12654-3EJ	2	10" - Ŭ				
12654-3AEJ	3	8" 10"				
12654-3EJN	3	10" - 12				
12654-3EJNS	4	10" - 12" - 🏨				

Extension

Guy Adapter

See page B-14 for SS and RR anchor capacity charts See Section D for Transmission Structure Foundations

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HIGH-STRENGTH SS ANCHORS for Heavy Tension Loading F (*** Ľ 2 5 5 Lead Section Single Helix Extension Two Helix Lead Section **Plain Extension** Extension Г Г B ្រែន L3 L3 13

HMBLEYE* Adapter

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「日本のない」であるというないです。





Ovaloye

Threaded Adapter

TRIPLEYE* Chain Chain Shackle

Shackle

ORDERING INFORMATION

RATINGS	S ORDERING INFORMATION							
Rechanical Reperties	SS 150 1.50" Square Shaft	SS 175 1.75" Square Shaft	SS 200 2.00" Square Shaft	99 225 2.25" Square Shalt				
Max Instal ation Torque	7,000 (L-164.	10,000 ft,-lbs.	15,000 ftlba.	20,000 ftlba				
Trision Scrength	70,((A)) }b•.	100,000 The.	150.000 [bs.	200,000 lbs.				

Adapter

LEAD SECTIONS

and a second			-	and the second distance of the second distanc	and the second se			and the second s		Contraction of the local division of the loc	No. of Concession, Name of	-
tellx Configuration		SS 150	\$\$ 175			SS 200			SS 226			
s.,	Galv.	Non-Gaiv.	L1_	Galv.	Non-Galv.	Ľ	Galy.	Non-Galv.	1.	Galv.	Non-Galy,	
F.A. 10	C110 0983	C114 N.14	301	C110 03:17	C1 1,0020	30						
ST. 5 & 10"	_					1	C110-3569	CI11-0214_	G0'	C110-0543	C-14-0187	64
1. 10" 4 .2	C110-0386	C111 0215	57"	C110-0235	C114-3021	60	C110-057P	C114-0215	60	C110-28-4	C114-0188	75
M 14 & 14	Q110 0504	(111.0119	120	C110-0508	C114-0984	174	C110-0572	C114-0216	122	C110-0545	C114-0190	114"
9, 10', 12' & 14'	1	1:114-0130	120'	C110-0247	C114-0101	137	C113-05*3	CL14-0217	122	C114-0189	C114-0189	115
					and the second sec		and the second s			and the second s		

EXTENSIONS

Helix Configuration	Ę	SS 150		\$5 175			S	S 200		58 225		
	Galv.	Non-Gety.	12	Galv.	Non-Gelv	12	Galv.	Non-Gelv.	ΓL2	Galv.	Non-Gaiv,	10
Non	C110-0388	2114-0016	87	C110-0136	C114-0C22	37	C110-0568	C114-0209	37	C110-0045	C114-0243	40"
None.	C110-0470	C114-0104	69	C110.0137	C1'3-0105	59	C110-0564	C114-0210	38	ULL0-2048	0114 0244	60"
Sime	C110-0399	C114-00:7	EΟ	CI10-0138	C114-0023	80	C110-0566	C114-0211	80	C110-0647	CT14-0243	80"
High	C110-0440	C314-0384	132	(110-0140	0114-0081	1.24	C110-0666	C114-0212	123			120"
Socie 14' helix	C110-C471	C114-0105	46	C110-0472	CII4-0109	18	CL10-6527	C111-0220	4.5	C119-0580	C114-0238	39
Sitia 14" achee	C110-0454	114.0058	£0"	C110-0450	C114-0057	40	C110 0581	C114-0224	80	C110 0652	C114-0252	78
	C110-0475	0114-0117	123"	C110-0476	C114-0113	124"	C112-0586	C114-9231	123			120"

SUFFMINATION ADAPTERS

	SS 150		\$S 175		SS 200			SS 225				
	Gelv.	Non-Galy	1.2	Galv.	Non-Galv	U?	Galv.	Non Galv.	13	Galv.	Non-Gely	U
Himpleye Adapter	C102-0023		177	T110-C311		17	T110-0312		1,7			
Adapter	C102-0024		1.7									
Minisye Adapter	C102-0025		1.7	T_10-0465		17						
Wileye Adaptor	C110-0041		17									
stainented Adaptive	(210.0020	Les als	120	T110-0352*	L/-36	48						
Ohsir Shack'e	IC110-0574	1 414	313	T110-9.34	[,=1 ,,*	612'	C110.05: 7	_`=2V	41.1	C110-0588	L'=243"	9

Eff10-0352 includes two nuts

THREET Shackle



Selecting the correct Kelly bar adapter is the first step to building a successful Drive String. Follow these two easy steps:

1) Remove the auger from the diggle and carefully measure the "A" and "D" dimensions of the Kolly bar.

2) Match the shape of the Kelly bar and the "A" and "D" dimensions with the Kelly bar adapter chart provided on page B-29. The "D" dimension on the Kelly bar adapter must be equal to or grouter than the "D" dimension or the Kelly bar itself.



POWER-INSTALLED SCREW ANCHOR TOOLING SYSTEM (For installing torques up to 10,000 ft.-lb.)

A complete tool system consists of: Kelly bar adapter, torque indicator, locking dog assembly and drive-end assembly.

Remove the auger from the digger and select the Kelly bar adapter by matching the shape of the Kelly bar along with the "A" dimension (flat to flat on end of Kelly bar) and the "D" dimension (end of Kelly bar to center hole for bent arm pin). Match the shape and "A" and "D" dimensions with the chart provided below.

ORDERING DATA --- KELLY BAR ADAPTER WITH BENT ARM PIN (5%" BOI T CIRCLE)

	Kelly Bar	Keily Bar Dimension						
Part No.	Shape	A	В	C	D	E	1 Lb	
P630017	Square	21/2"	1%"	3%"	21/4"	3.12	10	
P630016	Square	214	11/4"	312"	244"	312	10	
P630013	Hex	2"	11/2"	6½"	5"	6 A	10	
P630012HD	Hex	278	3.4	814	41/4"	8%	12	
P630011HD	Hex	23:5	37/8	8 ½"	4%"	8!8'	14	

Kelly bar adapters have six $\frac{1}{2}$ dia, holes on a $5\frac{1}{4}$ bolt circle and include six- $\frac{1}{2}$ bolts, nuts, lock washers and bont arm pin with coll lock.

LOCKING DOG ASSEMBLY

Cat. No.	Description	Wt.Ea.
C303-0069HD	Complete Heavy Duty	20 lbe.
	Locking Dog Assembly	
C303-0070	Locking Dog Replacement Kit Includes	4 lbs.
	parts necessary to replace both lock, dogs.	

The Locking Dog Assembly has six 32° holes on 5 34° bolt circle and includes six 32° grade 6 bolts, nuto and look washers.

	7-Ft. Drive-End Wrench	
C102-15-38	For 1 35' Core Anchora, Installs 8,000 ftlb. (small hub) Touch ONE® anchors, 10,000 ftlb. (smal' hub) Touch ONE® anchors, Standard-Strength and	57 lbs.
	Mid-Strength Anchore.	
C303-1064	For 1½" Core anchore. Installs PISA 6 & 7 anchore & 3,000 ftlb. (large hub) Toyot: ONE [®] archore	64 lba.

3½-Ft. Drive-End Wranoh

C102-1595	For 1% Core Anchors, Iustalls 8,000 ftlb. (small hub) Touch ONE ⁹ anchors, 10,000 ftlb. (small hub) Touch ONE ⁹ anchors, Standard-Strength and Mid-Strength	29 lbs .
	anchers	, ,
†C303-1063	For 1½" Core anchors Installs PISA" 6 & 7 anchors and 9,000 ftlb. (large hub) Touch OKT* anchors.	28 lbe.

Extension Wrench for Drive-End Wrenches Above

C630027	312 Extension	42 lbs
C630028	7' Extension	70 lbs

"The Drive-End Wienches for 122" core anchors are painted with a yellow build on the ends to distinguish them from the Drive-End Wranches for 134" Core Anchors.

NOTE: These wrenches will fit 15,000 ft.-lb. Touch Oxe® anchors dimensionally, but . . . MUST NUT be used for TORQUES IN EXCESS of 10,000 ft.-lb.!

Convertible to Extension Use

Extension assemblies can be added where soil conditions dictate that anchors be set more than one rod length deep can where digger to ground clearances are limited

Transmits Torque to Anchor Core

The wrench transmits the torque from the kelly bar of the digger to the hub of the Power-Installed Screw Anchor so that the anchor rod need be only large enough in diameter to: support the guy load.



B-26

ANCHOR INSTALLING TOOL PIN

/ BAR

Y BAR

JE :OR

CKING

DOG SEMBLY

Use with Kelly bar adapters, SS, RR and bumper post installing tools

Each Chance plated-steel Bent Arm pin is designed to attach s Kelly bar adapter to a Kelly bur Also used to secure SS, RR and bumper post anchors to anchor drive tools.

> Bent Arm pins are included with new tools as required. Order pins for existing tools as shown below

ORDERING INFORMATION

Kelly Bar Adapter	Bent Arm Pin and Coll Lock Assembly
630011HD	C303-1223
630012HD	C803-1223
630013	C303-1223
630013A	C303-1223
630015	C303-1227
630017	C303-1227

production and all production in the difference of the	and the second division of the second divisio
SS/RR	Bent Arm Pin
Tools	and Coil Lock
	Assembly
639001	C803-1226
C303-0195	C303-1225
C303-0201	C303-1224
C303-0202	C303-1224
C303 0020	C303-1226

Bumper Post Tools	Bent Arm Pin and Coil Lock Assembly
C305-0737	C803-1227
C303-0739	C303-1227



Chance Bent Arm pins are the only tested and approved means for through-pin attachment of drive tools.

Bent Arm Pin	
and Coil Lock	
Assembly	Size
C303-1226	3" x %"
C303-1225	34 x 11
C303-1224	41/2" x 1"
C800-1237	5" x 1/1"
C303-1223	415" x 15"
C303-1222	5" x %"



To order Coil Lock only, order part No. P303-1215.

B-29

IVE INCH

NCHOR

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ESKRIDGE GEAR DRIVE SPECIFICATIONS



50 Gear Drive - Shaft Output

Typical Applications: Industrial, Marine or Mobile Equipment

Performance Ratings

Maximum Intermittent Output Torque	50,000 in-1b (5,649 N-m
Continuous Output Torque	25,000 in-10 (2,324 N-m
Peak Torque Rating	Consult Eskridge
Maximum Input Speed (No Load)	3,000 RPM

Consult your Eskridge representative to determine ratings for your specific application or configuration.

General Dimensions for Flanged Gear Drive Mounting (ordering option 'A')

Other options may be available. See ordering information on last page or contact your Eskridge representative for more details. Values are shown as "inches (millimaters) " Please see pages 6 & 7 for full Dimension A & 3 specifications.



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50 Gear Drive - Shaft Output

Typical Applications: Industrial, Marine or Mobile Equipment

General Dimensions for Flanged Quick Eccentric Gear Drive Mounting (ordering option 'AQ')

Other options may be available. See ordering information on last page or contact your Eskridge representative for more details. Values are shown as "inches (millimeters) " Please see pages 6.8.7 for full Dimension A & B specifications.



CGR7./90./01

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Typical Applications: Industrial, Marine or Mobile Equipment

General Dimensions for Rectangular Gear Drive Mounting (ordering option 'E')

Other options may be available. See ordering information on lest page or contact your Eskidge representative for more details. Values are shown as "inches (milimeters)," Please see pages 6 & 7 for huh Dimension A & B specifications.



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General Dimensions for Flangeless Gear Drive Mounting (ordering option 'F')

Other options may be available. See ordering information on last page or contact your Eskridge representative for more details. Values are shown as "inches (millimeters)." Please see pages 6 & 7 for full Dimension A & B specifications.





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General Dimensions for Square, SAE "C" Gear Drive Mounting (ordering option 'G')

Other options may be available. See ordening information on last page or contact your Eskridge representative for more details. Values are shown as "inches (millimeters)." Please see pages 5 & 7 for full Dimension A & B specifications.

.66 DIA MOUNTING HOLES (4) PLACES AS SHOWN ON A 6.375 DIA B.C. .50 1/4 NPT PLUG OR OPTIONAL GREASE ZERI 4,999 4,997 DIA (6.07) SOUARE Ĩ 8.25 DIA n **THUM** 1/2 - 20 UNF-28 X 1.00 DEER 8.25 DIA AS CAST DIM "B"---DIM "A 3/8 NPT -OIL PORT (2 PLCS.) MOUNTING FACE

This mounting must be ordered with the L shaft retention

Ő N.



Typical Applications: Industrial, Marine or Mobile Equipment

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Dimension "A" Specifications (Flange to Flange)

Gear Drive Mounting	Input Mounting, Option A SAE A - 2 & Modified 4 Bolt			Input Mounting, Option E SAE B - 2 Bot			Input Mounting, Option C SAE C - 4 Bolt			Input Mounting, Option K SAE C - 2 Bolt		
	Single Planstary	Double Planetsry	Triple Planetary	Single Planetary	Double Planetury	Triple Planetery	Single Planetary	Donble Planetary	Triple Planetary	Single Planetary	Donisle Purnelary	Triple Pluetary
A	5.44	6.66	7.95	5. 44	6.66	7.95	5.79	7.01	8.30	5.79	7.01	6.30
	(138.1)	(169.1)	(201.9)	(138.1)	(169.1)	(201.9)	(147.0)	(178.0)	(210.8)	(147.0)	(178.0)	(210.8)
AQ	5.44	6.66	7.95	5.44	6.66	7,95	5.79	7.01	8.30	5.79	7.01	8.30
	(138.1)	(169.1)	(201.9)	(138.1)	(169.1)	(201.9)	(147.0)	(178.0)	(210.8)	(147.0)	(178.0)	(210.8)
E	6.31	7.53	8 82	6.31	7.53	8.82	5.66	7.88	9.17	6.66	7.98	9,17
	(160.2)	(1912)	(224.C)	(160.2)	(191.2)	(224.0)	(169.1)	(200.1)	(232.9)	(169.1)	(200.1)	(232.9)
F	7.00	8 22	9 51	7.00	8.22	9.5 1	7 35	8.57	9.36	7.35	8.57	9.86
	(177.7)	(208.7)	(241.5)	(177.7)	(208.7)	(241 5)	(166 5)	(217.6)	(250.3)	(186 6)	(217 6)	(260.3)
G	8.23	9.45	10.74	8.23	9 45	10.74	8.58	9 80	11 09	8.5 8	9.80	:1.C9
	(209.C)	(240.0)	(272.7)	(209.0)	(240.0)	(272.7)	(217.9)	(248.9)	(281.6)	(217.9)	(248.9)	(281.6)
с		-				Consul on all	t Eskridge options		-			



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(S13) 782-1238 (Tel)

Typical Applications: Industrial, Marine or Mobile Equipment

Dimension "B" Specifications

ar ye tting	_					Shaft Option	S		-		
Mour	D1	D2	D3	D4	D6	D6	D7	DS	F2	i12	CI
A	4.78 (121.3)	4.78 (121.3)	5.30 (126.9)	5.00 (126.9)	_	_		_	5.63 (142.9)	7.62 (193.4)	
AQ	4.78 (121.3)	4.78 (121.3)	5.00 (123.9)	5.00 (126.9)		_	_	_	5.63 (142.9)	7.62 (193.4)	
E	3.91 (99.2)	3.91 (99.2)	4.13 (104.8)	4 13 (104,8)	—		-	—	4.75 (120.8)	6.75 (171.3)	Consult Estridge on all outlons
F	3 22 (81.7)	3.22 (81.7)	3,44 (8* 3)	3.44 (87 3)				-	4.76 (120.8)	6.06 (153 9)	
G	3.36 (35.4)	3.36 (85.4)	4.50 (114.4)	3.85 (97.9)	2.53 (64.3)	3,00 (76.3)	4 14 (105.3)	3.57 (90.8)		_	
с						Censuit Eskrid en all options	5 ^e			• <u> </u>	<u></u>

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50 Gear Drive - Shaft Output

Typixil Applications: Industrial, Marine or Mobile Equipment

Oil Capacities

		Quantity					
Pos	ition	Sin zie Planetary	Double Planetary	Triple Planetary			
L. 45 (8) Li E	Vertical	2.00 pts 1.0 L	3.00 pts 1.4 L	3.50 pts 1.7 L			
A, AQ, Mou	Horizontai	1.50 pts 0.7 L	1.75 pts 0.8 L	2 00 pts 1.0 L			
ount	Vertical	1 75 pts 0.8 L	2.75 pts 1.3 L	3 25 pts 1.5 L			
G Mo	Horizontal	1.25 pts 0.6 L	1.50 pts 0.7 L	1.75 pts 0.8 L			

All units are shipped dry (without oil).

Approximate Unit Weights

eer ive nting	Stages						
Mou	Single	Doubie	Triple				
Mou	Planetary	Planetary	Planetary				
A	81	94	1 07				
	(37)	(43)	(49)				
AQ	81	94	107				
	(37)	(43)	(49)				
E	79	92	105				
	(36)	(42)	(48)				
F	70	33	96				
	(32)	(38)	(44)				
G	64	77	90				
	(29)	(35)	(41)				
C [°]	Consult Eskridze						

SULTE WARIN (ETH



To adjust for loads and speeds other than those shown on above curve, use this formula:

Adjusted Life (hours) = 3000
$$\left(\frac{10 \text{ pm}}{\text{Sceed(Adjusted)}}\right) \times \left(\frac{\text{Load (Curve)}}{\text{Load (Adjusted)}}\right)^{100}$$

HAGE 17



Bearing Curve Option G

Option G must be ardered with option L shaft retention.



Bearing Curve Option F



To adjust for loads and speeds other than these shown on above curval use this formular

Adjusted Life (hours) = 3000
$$\left(\frac{10 \text{rpm}}{\text{Speed}(\text{Adjusted})}\right) \times \left(\frac{\text{Load}(\text{Curve})}{\text{Load}(\text{Adjuster})}\right)^{100}$$

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(913) 782-1238 (Tel)

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PORM: PE50_0505 Page 10 of 16

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Typical Applications: Industrial, Marine or Mobile Equipment

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Output Shaft Options values are shown as "inches (millimeters)"

			A, AQ, E & F Mounts Output Shaft Order Codes
		D1	2.00" Dia. x ¾" Key
E & F Only	N	D2	23T 12/24 DP Spline
	0	D3	2.125" Dia. x ½" Key
	2	D4	2.00" Dia. x 1/2" Key
0	5	51	2.00" Dia. x 1/2" Key (Internal)
A, A Moi	õ	L	(Only for use with K shaft retention option; contact Eskidge for details)
	Ξ	H2	2.00" Hex Drive
		C1	Custom Shaft, Consult Eskridge



D1 - 2.00" Dla. x

%" Key







Typical Applications: Industrial, Marine or Mobile Equipment

(913) 782-1238 (Fei) (913) 782-4208 (Fei) Salesi@Estridgelic.com Wink Estridgelic.com FOR4: PS50_0505 Page 12 of 18

Output Shaft Options Values are shown as "inches (milimeters)"

			A, AQ, E & F Mounts Output Shaft Order Codes
		D1	2.00' Dia. x %" Key
4	n ly	D2	23T 12/24 DP Spline
ũ	0	D3	2.125" Dia, x ½" Key
تہ	3	D4	2.00" Dia. x ½" Key
2	n	57	2.00" Dia. x 1/2" Key (Internal)
	õ	F 4	(Only for use with K sheft relention option; contact Eskidge for details)
Ϋ́	S	H2	2.00" Hex Drive
		C1	Custom Shaft, Consult Eskridge



D4 - 2.00" Dia. x











Typical Applications: Industrial, Marine or Mobile Equipment

Output Shaft Options Vekue are shown as "leches (millimeters)"

		G Moust Output Shaft Order Codes
	ы	2.00" Dia. x ¾" Key
>	D2	23T 12/24 DP Spline
lu	D3	2.25' х ½" Көу
0	D4	16T 8/16 DP Spline
5		(Replaces Hero Model 16)
5	Dő	17T 12/24 DP Spline
ō	D6	17T 12/24 DP Spline (1/4 Longer than D5 Shaft)
Σ	D7	2.00" Dia. x 1/2" Key
U	ne	16T 8/16 DP Spline
_	00	(Replaces Char Lynn 10,000 Motor)
	C 1	Custom Shaft, Consult Eskridge



D1 - 2.00" Dia. x





D3 - 2.25" x ½" Key



(813) 782-1238 (Tel)

(913) 782-4206 (Fex) Sales@Estrideoinc.com www.Estrideoinc.com FORM: PS50_0505

Page 13 of 18



Typical Applications: Industrial, Marine or Mobile Equipment

Spline

D6 - 17T 12/24 DP

Spilne (1:4" Longer

than D5 Shaft)

3/8-15 UNC-28

.75 (19.1) DEEP

(2) PLACES ON

1.00 (25,4)B.C.

(D4 & D8)

2.120

(53,85) DIA

(913) 782-1238 (Tal) (913) 782-4208 (Fex) Sales@Eskridgeinc.com www.Eskridgetric.com FORM: P650 0505 Page 14 of 18



3.28

(83.3)

2.50

2.13 (54,1)

Spline



38-18 LNC-18 75 (19.1) DEEP (2) PLACES GN 100 (25,4)B.C. (C4 & D8) 2120 (53,85) **DIA** 2.05 (52,1)

3.00 (78,2)

10/06/2005

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(913) 782-1238 (Fei) (913) 782-4208 (Fax) Sales@Estridgalnc.com <u>www.Estridgalnc.com</u> FORM: P350_0505 Page 15 of 18

Output Shaft Options Velues are shown as "inches (millimeters)"

		G Mount Output Shaft Order Codes
	D1	2.00" Dia. x %" Key
7	D2	23T 12/24 DP Spline
	D3	2.25" x ½" Key
Ö	D4	16T 8/16 DP Spline
t st		(Replaces Haco Model 16)
5	D5	17T 12/24 DP Spline
õ	D6	17T 12/24 DP Spline (¼ Longerthan D5 Shafi)
Σ	D7	2.00" Dia. x 1/2" Key
U		16T 3/16 DP Spline
		(Replaces Cher Lynn 10,000 Motor)
	C1	Custom Shaft, Consult Eskridge

D7 - 2.00" Dia. x %" Key







(\$13) 782-1238 (Tei) (\$73) 782-4208 (Fex) Salos (254) (Fex) <u>Salos (254) (Fex)</u> <u>www.Eskinidoninc.com</u> <u>www.Eskinidoninc.com</u> PORM: PS50_05005 Page 16 of 16

Typical Applications: Industrial, Marine or Mobile Equipment

Ordering Information



Please note that additional options are available on the 50 series. Contact the factory for further information about unlisted options.



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.U/Up/2000 13:30 ಟಟ್ಟಿಗೆ ಎಂಬಿಸ SULLU LAFTH ILLH PAGE 25 10/06/05 09:16 FAX 913 783 4206 ESKRIDGE Ø 002 . 50 20 1^{CI} Ocde 39 - NICHOLS 111A C68-AP-0 Digger Model 50-20 off hl ratio hi eff Ratio 20.61624 0.95 ¢ 0 Motor description Code 39 - NICHOLS 111A-088-AP-0 Max pressure motor p/n Disp low Eff low Disp hi Eff hi 01-304-0390 10.6 0.91 Ó 0 2400 Pressure Torque low 0 0 2400 6,014 flow gpm Speed low 0 0 30 30





10/06/2005	13:30	6038827822
10/06/05	09:18 FA	X 913 782 4208

SULID EARTH TECH

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828 W/10.6 CID MOTOR									
delta press	Torque								
(psl)	low (ft-lb)								
0									
400									
	401 804								
200	301								
300	/ 52								
400	1,002								
500	1,253								
600	1,503								
700	1,754								
800	2,005								
900	2,255								
7000	2,506								
1100	2,750								
1200	3,007								
1300	3,257								
1400	3,508								
1500	3,758								
1600	4,009								
1700	4,260								
1800	4,510								
1900	4,761								
2000	5,011								
2100	5,26 2								
2200	6,512								
2300	5,763								
2400	6,014								





L&L STRUCTURAL

ENGINEERING SERVICES, INC. Six Q Street South Portland, ME 04106 Phone: (207) 767-4830 Fax: (207) 799-5432

September 6, 2005

Mr. James Sterling 142 High Street Portland, Maine 04101

Subject: Amendment to the SCHEDULE OF SPECIAL INSPECTIONS

Dear Mr. Sterling

As we discussed we have revised our Schedule of Special Inspections to include monitoring the Helical pile driving. We have also included the pile design criteria on the general notes sheet. Our office has also contacted S.W. Cole Engineering to let them know that the pile monitoring will also be included in there scope of work.

If you have any questions, please call.

Sincerely,

L&L Structural Engineering Services, Inc.

Mart 7 Leasur

Mark F. Leasure, P.E. Principal

Cc: Mike Nugent (City of Portland) Peter Haber (Wright-Ryan Construction)

SCHEDULE OF SPECIAL INSPECTIONS										
Project: 490 CONGRES	S STREE	T IBC 2003 CH		R 17	Page: 10	of 3				
MATERIAL/ ACTIVITY	ITEM	SERVICE		APPLICABLE TO THIS PROJECT						
		_	Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT #	DATE	REV		
				and testing frequency (Freq:)			COMPLETED	#		
STEEL CONST.										
Steel Fabrication	1.01	Submit Manuf. Cert. Mill Test Reports	Y	ALL		1				
	1.02	Submit welders certification	Y	ALL		1				
Weld Inspection	1.03	Inspection of field welded conn's	Y	50% Visual Inspection for fillet welds		1	_			
Structural Steel				50% Ultrasonic for moment conn's						
Joint Detail Compliance	1.04	Review joint details for Compliance	Y	Sample		1				
w/ approved Const Doc's		w/ approved const. document.								
CONCRETE CONST.	1.01									
Reinforcing Bars	1.02	Review bar size, location & splice	Ι ^Υ	Freq: Prior to each Conc. placement		1				
		length as indicated on the approved								
O-luma Arabas Dalla	1.00	shop drawings and design drawings					[
Column Anchor Bolts	1.03	Review size and location	ľ	Freq: Prior to Conc. Placmeent						
Concrete mix design	1.04	SER shall review and approve mix	Y	Freq: Once prior to Conc Placement		2				
		to be used on the project			-					
Concrete Placement	1.05	Sample fresh concrete at time of	Y	Freq: Test as indicated in the project		1				
		placement in accordance w/ the		Manual.						
		project drawings & specification for								
		Stregth tests, Slump, Air Content								
		and concrete temperature.								
Concrete Placement	1.06	Inspect placement of fresh concrete	Y	Freq:Performed in accodance wth the.		1				
Techniques		(ACI 318: 5.9, 5.10)		Project Specifications.						
Concrete Curing	1.07	Review for compliance w/ project	Y	Review after each slab placement		1				
Techniques		specifications (ACI 318: 5.11-5.13)								
							_			
	1						L			
	1									
	1		1							

Project: 490 CONGRES	SCHEDULE OF SPECIAL INSPECTIONS Project: 490 CONGRESS STREET Page: 2of 3									
MATERIAL/ ACTIVITY	ITEM	SERVICE		APPLICABLE TO THIS PROJECT						
			Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT #	DATE			
							COMPLETED			
TIMBER CONSTRCTION	1.08									
Floor Sheathing	1.10	Review sheathing for nail spacing,	Y	Freq: After erection of each level		1				
		required glueing to support, and		of framing.						
		conformance with the project								
		Specifications.								
Roof Sheathing	1.11	Review sheathing for nail spacing	Y	Freq: After erection of each level		1				
		and conformance to the project		of framing.			<u> </u>			
		project specifications								
	1.40	Deview she athing for well appoint		Freque After exection of each lovel		_				
waii Sheathing	1.12	neview sheatning for hall spacing	ľ	of framing		<u> </u>	╞───┾──			
		and conformance to the project		or naming.						
		specifications					<u> </u>			
	1	opoonioutorio				_	┼──┼─			
SOILS	1.13									
Site Preparation	1.14	Verify that the site has been	Y	Freq: Inspect prior to placing		1				
		prepared in compliance with the		concrete footings.						
		approved soils report.								
Fill Placement	1.15	Verify that the maximum fill lift is	Y	Freq: Inspect during the placement		1				
		in compliance w/ the design		of fill material						
		documents, as well as, materials.								
Soil compaction	1.16	Verify that the in-place dry	Ý	Freq: Inspect prior to placing		1	┝──┼─			
		density is in compliance with the		concrete footings or slabs.			┝───┝──			
		design drawings.								
							┢───┟──			
				1			╂───╂──			
							<u>├──</u> ┼─			

Project: 490 CONGRES	SS STRE	SCHEDULE OF S	SPECI	AL INSPECTIONS	Page: 30	of 3		
MATERIAL/ ACTIVITY	ITEM	SERVICE APPLICABLE TO THIS PROJECT						
			Y/N	EXTENT (All,Sample, Other, None)	COMMENTS	AGENT #	DATE	
							COMPLETED)
PILE FOUNDATION	1.17							
Pile Torque	1.18	Monitor Pile Torque during the last	Y	Freq: All piles.		1		
		three (3) feet of penetration. Verify	1)				
		the torque corresponds to the	1				_	
	[required design capacity.					L	L
Keep an Accurate Record								
of the following:	1.19	Pile Identification Number					 '	Ļ
		Location drilled					<u></u>	
		Date drilled	1				╉━━━━┛	┝───
							╉────┘	┟───
		l otal depth of penetration					╋━────┘	┣──
		Plie deviation from center of Plie			<u> </u>			┣───
							╉─────	┢───
		}					╉────┤	<u> </u>
							╋━───┤	┝──-
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			_
•	FROM DESIGNER: LLL STRU	LTURAL EN	in SERV. INC.
	DATE: MAY 25, 200		······································
•	Job Name: 490 COMG	LESS ST.	· · · · · · · · · · · · · · · · · · ·
• .	Address of Construction: 490 CONG	RESS ST.	
•	2003 Internation Construction project was designed according	al Building Code g to the building code crite	ria listed below;
•	Building Code and Year BC 2003 Use G	oup Classification(s)	RZ
	Type of Construction 3B		
	Will the Structure have a Fire suppression system in Accordance	e with Section 903.3.1 of the	2003 IRC 13
	Is the Structure mixed use? Y if yes, separated or non se	arated (see Section 302.3)	SEPARATE
	Supervisory slarm system? Geotechnical/Soils report	equired?(See Section 1802.2	NA
	STRUCTURAL DEBION CALCULATIONS	Y Live load i	aduation
		(1603.1	.1, 1607.9, 1607.10)
	(100.1, 106.1.1)	Roof live lo	oads (1803.1.2, 1807.11)
	DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603)	Roof enow loade (1803.1.3,	1808)
	Uniformly distributed floor live loads (1803, 1.1, 1807)	42 PSF if Para 10	ow load, Pg (1608.2) nef fistandi engeload Br
	Floor Area Use Loade Shown	(1608.5)) , intricol show load, Pr
	DWELLING 42 PSF	<u>0.9</u> If P ₀ > 10 p (Table 1	ef, anow exposure factor, C _e 908.9.1)
	CORRIDOR 100 PSF	1.0 HPg>.10 p	sf, snow load Importance
	DTAIRJ/EXIT 100 PSF	factor, le	(Table 1804.6)
• .		<u> </u>	al factor, C: (Table 1608.3.2)
		<u> </u>	dnowload, Pe (1606.4)
		Selemio dee	lgn oatsgory (1816.3)
	Wind loads (1803.1.4, 1609)	<u> </u>	lo-force-resisting system 17.6.2)
	1601.1.1 Design option utilized (1809.1.1, 1809.6 100 meh Basio wind speed (1809.3)	2/2 Response m and defie (Table 16	rodification coefficient, R. otion amplification factor, Cy 17.8.2)
	Like in the second seco	ASCE 7 . Analysis pro	oedure (1616.6, 1817.5)
	Wind exposure category (1609.4)	50 Kips Design base	shear (1817.4, 1817.5.1)
74	(18.7.)/2 C/22 c) PSP	Flood loade (1603.1.6, 1612)	
:	(1609.1.1, 1809.8.2.2)	N Flood hazard	area (1612.3)
·	33 PSF Main force wind pressures (1809.1.1,	UNKNOWN Elevation of	truoture
	1000.02.1)	Other loads	•
	Earthquako design data (1803.1.5, 1814 - 1823)	Concentrated	loads (1807.4)
		Partition load	(1607.5)
• •	(Table 1004.5. 1016.2)	impact loade	(1607.8)
	U.S. J.U. 16 Spectral response coefficients, Sps & Spt (1815.1)		mon 1007.0,1807.01, 07.12,1807.13,1810,



BUILDING CODE CERTIFICATE 389 Congress St., Room 315 Portland, Maine 04101

ACCESSIBILITY CERTIFICATE

Designer:	James Sterling, AIA, Archt.	
Address of Project:	490 Congress Street	
Nature of Project:	Renovation to existing building	
	Project exempt: building pre-dates	
	'First Occupancy' March 13, 1991 rule.	

First Level Commercial space will Comply. The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.



Signature	: Julua.
Title:	Architect
Firm:	James Sterling Architect
Address:	142 High Street, Suite 612
	Portland, Maine 04101
Phone:	772-0037

389 Congress Street • Portland, Maine 04101 • (207) 874-8703 • FACSIMILE (207) 874-8716 • TTY (207) 874-8936

From:	Ethan Boxer-Macomber
То:	Marge Schmuckal
Date:	Tue, Jun 14, 2005 2:18 PM
Subject:	Re: 490 congress st

Regarding 490 Congress-

They just got me docs to satisfy conditions of approval. I have not reviewed them thoroughly yet. It seems like they have made a change to the unit count which may require them to go back to the Planning Board. I will bring this to tomorrow's review meeting. Not yet okay to issue a building permit. Ethan

>>> Marge Schmuckal 06/14 1:04 PM >>>

Ethan,

What is the status of this project? I have received an application for a building permit. I also note that they have added two residential d.u. (from 21 to 23 du) since I reviewed this last for you in november. Is 23 the correct number of dwelling units at this time? How many of those units are within new construction and not within the old structure? When can 1 get a stamped approved site plan for this project?

Thanks,

Marge

CC:

Sarah Hopkins

5- Brown Stis Not in the FAN Alstict

Page	1	

From:	Marge Schmuckal
To:	Ethan Boxer-Macomber
Date:	Tue, Jun 14, 2005 1:04 PM
Subject:	490 congress st

Ethan,

What is the status of this project? I have received an application for a building permit. I also note that they have added two residential d.u. (from 21 to 23 du) since I reviewed this last for you in november. Is 23 the correct number of dwelling units at this time? How many of those units are within new construction and not within the old structure? When can I get a stamped approved site plan for this project?

Thanks,

Marge

Orlando E. Delogu, Chair Lee Lowry III, Vice Chair John Anton Kevin Beal Michael Patterson David Silk Janice E. Tevanian

November 12, 2004

Matthew Alcorn Kimball Building P.O. Box 427 Vinalhaven, ME 04863

RE: 490-492 Congress Street Application #2004-0146, CBL #037 I002001

Dear Mr. Alcorn:

On November 9, 2004, the Portland Planning Board voted 7-0 to approve the subdivision application for the above referenced project. The approval was granted for the project based on the finding and subject to conditions as follows:

That the plan is in conformance with the subdivision standards of the land use code.

Conditions of Approval:

- i. The applicant shall present condominium documents to the City of Portland for final review and approval by Corporation Counsel.
- ii. A subdivision plat, in conformance with city code section 14-496, shall be prepared for signature by the Planning Board.

On November 9, 2004, the Portland Planning Board also voted 5-2 (Anton and Beal Opposed) to approve the subdivision application for the above referenced project. The approval was granted for the project based on the finding and subject to conditions as follows:

That the plan is in conformance with the site plan standards of the land use code.

Conditions of Approval:

vi.

- iii. The final design of the project's Congress Street façade shall be in substantial conformance with the approved plans. Final architectural finishes and detailing shall be subject to review and approval by the Planning Authority.
- iv. The final exterior lighting plan shall be subject to final review and approval by the Planning Authority.
- v. If for any reason, the lease with the City of Portland for 23 parking spaces at the Spring Street Parking Garage is terminated, not renewed, or otherwise becomes inoperative the developer or any succeeding condominium association shall nonetheless be responsible as the condition of this site plan approval for providing 23 parking spaces within 750 feet of 490-492 Congress Street. The spaces under the lease shall be allocated to the 23 residential units.
 - The developer shall present the City with a letter of financial capacity for review and approval by the Planning Authority.
- vii. The developer shall provide a contribution to the City Street Tree Program at a rate of two trees per residential unit and \$100 per tree for a total required contribution of \$4,600.

The approval includes a redesign and upper story addition to the property at 490-492 Congress Street for the creation of 23 upper-level, residential condominiums and open retail / office shell space on the first floor and in the basement. The Congress Street façade design was approved as part the site plan approval.

The approval is based on the submitted site plan and the findings related to subdivision and site plan review standards as contained in Planning Report #54-04, which is attached.

Please note the following provisions and requirements for all site plan approvals:

1. Where submission drawings are available in electronic form, the applicant shall submit any available electronic Autocad files (*.dwg), release 14 or greater, with seven (7) sets of the final plans.

- 2. A performance guarantee covering the site improvements as well as an inspection fee payment of 2.0% of the guarantee amount and 7 final sets of plans must be submitted to and approved by the Planning Division and Public Works prior to the release of the building permit. If you need to make any modifications to the approved site plan, you must submit a revised site plan for staff review and approval.
- 3. The site plan approval will be deemed to have expired unless work in the development has commenced within one (1) year of the approval or within a time period agreed upon in writing by the City and the applicant. Requests to extend approvals must be received before the expiration date.
- 4. A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.
- 5. Prior to construction, a pre-construction meeting shall be held at the project site with the contractor, development review coordinator, Public Work's representative and owner to review the construction schedule and critical aspects of the site work. At that time, the site/building contractor shall provide three (3) copies of a detailed construction schedule to the attending City representatives. It shall be the contractor's responsibility to arrange a mutually agreeable time for the pre-construction meeting.
- 6. If work will occur within the public right-of-way such as utilities, curb, sidewalk and driveway construction, a street opening permit(s) is required for your site. Please contact Carol Merritt at 874-8300, ext. 8828. (Only excavators licensed by the City of Portland are eligible.)

The Development Review Coordinator must be notified five (5) working days prior to date required for final site inspection. The Development Review Coordinator can be reached at the Planning Department at 874-8632. <u>Please</u> make allowances for completion of site plan requirements determined to be incomplete or defective during the inspection. This is essential as all site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. <u>Please</u> schedule any property closing with these requirements in mind.

If there are any questions or concerns, please contact Ethan Boxer-Macomber at 756-8083 or ebm@portlandmaine.gov.

Sincerely,

Orfundo Delogu

Orlando Delogu, Chair Portland Planning Board

O:\PLAN\DEVREVW\CONGRESS 490\11-12-04 APPROVAL LETTER.DOC

cc: Lee D. Urban, Planning and Development Department Director Alexander Jaegerman, Planning Division Director Sarah Hopkins, Development Review Services Manager Ethan Boxer-Macomber, Planner Jay Reynolds, Development Review Coordinator Marge Schmuckal, Zoning Administrator **Inspections** Division Michael Bobinsky, Public Works Director Traffic Division Eric Labelle, City Engineer Jeff Tarling, City Arborist Penny Littell, Associate Corporation Counsel Lt. Gaylen McDougall, Fire Prevention Assessor's Office Approval Letter File

DEC

O:\PLAN\DEVREVW\CONGRESS 490\11-12-04 APPROVAL LETTER.DOC

Who billing will be sent to:	(Company,	Contact Person,	Address, Phone #)
------------------------------	-----------	-----------------	-------------------

Submittals shall include (9) separate *folded* packets of the following:

- a. copy of application
- b. cover letter stating the nature of the project
- c. site plan containing the information found in the attached sample plans check list

Amendment to Plans: Amendment applications should include 6 separate packets of the above (a, b, & c) ALL PLANS MUST BE FOLDED NEATLY AND IN PACKET FORM

Section 14-522 of the Zoning Ordinance outlines the process, copies are available at the counter at .50 per page (8.5 x11) you may also visit the web site: <u>ci.portland.me.us</u> chapter 14

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant:	Date:
-------------------------	-------

This application is for site review ONLY, a building Permit application and associated fees will be required prior to construction.

490 CONGRESS

project description for permit application, July 2004

"490 Congress" is the redevelopment and conversion of the vacant Bernie's Fashions at 490 Congress Street. Under new owners, Kimball Builders LLC, work will be completed to include the renovation of 490 Congress, retaining commercial uses at street level, with 21 residential units above. For this 41,194 GSF project, approximately 65% (26,884 GSF) of the work will be renovation to the existing structure, with 35% (14,310 GSF) new construction of upper residential floors and mezzanine. There will be no increase to the existing lot coverage. Construction is scheduled to begin in fall of 2004, starting with the renovation of existing commercial space. Completion is anticipated for spring of 2005. Construction will adhere to codes outlined in BOCA 1999 and NFPA 101.

The project will tie together three existing buildings occupying virtually the entire site (chart #37; block#1; lot #2). The primary volume extends from Congress street to Free street, intersected by an auxiliary volume projecting to a Brown street frontage. A six foot wide alleyway runs along the southern end of the site; however there is no deeded access from Free street to the 490 Congress alley by way of the adjacent lot. Existing utility services will be adequate to serve all planned commercial and residential units. Solid waste will be stored on site, in a sprinklered, rated trash room in the basement. Solid waste removal will be managed by private pickup from Brown Street, through a contractual agreement with a solid waste disposal contractor. Commercial loading will continue to be addressed through the use of existing commercial loading spaces. Residential move-in and loading will be addressed through a loading zone adjacent to the Brown street entrance. Residential parking will be provided at the Spring Street Parking Garage, where there will be 20 reserved spaces.

Commercial units will occupy the street and basement levels and have public access from Congress street. Residential units will occupy the second through fourth floor mezzanine levels. Entry to the residential units will be through lobby access from Brown Street. The lobby will connect with an internal courtyard on the second level, from which all the residential units will be accessed. The Congress street façade will be renovated with the addition of two residential levels. The Free and Brown street façades will be renovated. Upper level mezzanines will open to private rooftop decks.

Congress Street already has the Portland Museum of Art, Portland's Public Library, MECA, a number of public squares, and many other commercial and cultural institutions. "490 Congress" will bring a fresh presence to the neighborhood, while addressing the lack of downtown loft style housing along Portland's central cultural corridor.