······	University Of Maine/Gra Build Parking Garage and person or person of the Statutes of maintenance and ks for street line of work requires	ange orthern, the moment ns, more of N ine ar	insperies in procu ding or the Original of the ildings and the original insperies in procu ding or the thereo provide the original	Permit Number ACA OMCO 115 B009001 Ding this permit shoes of the City of Petures, and of the ap A certificate o procured by ow	all comply with all ortland regulating plication on file in f occupancy must be wher before this build- eof is occupied.
Application And Notes, If Any, Attached This is to certify that has permission to AT	University Of Maine/Gra Build Parking Garage and person or person of the Statutes of maintenance and ks for street line of work requires	Burner, ange orthern, al-C composed of N ine ar d u of burner b ication g cand w b re this land or of	Inc.	Permit Number ACA OMCO 115 B009001 Ding this permit shoes of the City of Petures, and of the ap A certificate o procured by ow	all comply with all ortland regulating plication on file in f occupancy must be wher before this build-
Application And Notes, If Any, Attached This is to certify that has permission to AT 88 Bedford St provided that the of the provisions the construction, this department. Apply to Public Work and grade if nature of such information.	University Of Maine/Gra Build Parking Garage and person or person of the Statutes of maintenance and ks for street line of work requires	Burner ange orthern, al-C composed of N ine ar d u of burner burner g cond w burner this land or co	Inc.	Permit Number ACA OMCO 115 B009001 Ding this permit shoes of the City of Petures, and of the ap A certificate o procured by ow	all comply with all ortland regulating plication on file in f occupancy must be wher before this build-
Application And Notes, If Any, Attached This is to certify that has permission to AT	University Of Maine/Gra Build Parking Garage and person or person of the Statutes of maintenance and ks for street line of work requires	Burner ange orthern, al-C composed of N ine ar d u of burner burner g cond w burner this land or co	Inc.	Permit Number ACA OMCO 115 B009001 Ding this permit shoes of the City of Petures, and of the ap A certificate o procured by ow	all comply with all ortland regulating plication on file in f occupancy must be wher before this build-
Application And Notes, If Any, Attached This is to certify that has permission to AT	University Of Maine/Gra Build Parking Garage and person or person of the Statutes of maintenance and ks for street line	Burner ange orthern, al-C composed of N ine ar d u of burner burner g cond w burner this land or co	Inc.	Permit Number ACA OMCO 115 B009001 Ding this permit shoes of the City of Petures, and of the ap A certificate o procured by ow	all comply with all ortland regulating plication on file in f occupancy must be wher before this build-
Application And Notes, If Any, Attached This is to certify that has permission to AT	University Of Maine/Gra Build Parking Garage and person or person of the Statutes of maintenance and	Buy Pin ange orthern, ange orthern, ange orthern, more of N ine ar d u of bu	Inc.	Permit Number ACE OMCO 115 B009001 Defing this permit shows of the City of P	all comply with all ortland regulating
Application And Notes, If Any, Attached This is to certify that has permission to AT	University Of Maine/Gra Build Parking Garage and person or person of the Statutes of maintenance and	ange orthern, the moment ns, more of N ine ar		Permit Number ACE OMCO 115 B009001 Defing this permit shows of the City of P	all comply with all ortland regulating
Application And Notes, If Any, Attached This is to certify that has permission to AT 88 Bedford St provided that the	University Of Maine/Gra Build Parking Garage ag person or persol	But Pit ange orthern, al C mom Pit ns, mor	Inc.	N Permit Number ACE OMC $115 B009001oting this permit sh$	all comply with all
Application And Notes, If Any, Attached This is to certify that has permission to AT 88 Bedford St	University Of Maine/Gra Build Parking Garage a	ange orthern,		N Permit Number ACL JMC 115 B009001	i Cafe
Application And Notes, If Any, Attached This is to certify that has permission to	University Of Maine/Gra	Buy Pin Pinange orthern,	ERIVIP	N Permit Number	
Application And Notes, If Any, Attached This is to certify that	University Of Maine/Gra	Buy Pin Pinange orthern,	ERIVIP	N Permit Number	
Application And Notes, If Any, Attached				N Permit Number	
Application And Notes, If Any,	GI			N	: 030011
Application And	GI			N	030011
	GI				
Form # P 04 DISPI	LAY THIS CA			RONTAGE OF V	VORK
<b>v</b>					
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					In the second seco	SUED		
City of Portland, Maine - Build	•	• •		No: 3-0011	Issue Date:		CBL:	004
389 Congress Street, 04101 Tel: (20	07) 874-8703, . 	Fax: (207) 874-8716	<u> </u>			2003	-1-15-BOC	9001_'
Location of Construction:	wner Name:		Owner Add	ress:		2009	Phone:	
88 Bedford St / The talme	University Of M	laine	107 Main				207-228-8	412
Business Name: C	Contractor Name:		Contractor	Address: (	afy of Por	LANL	Phone	
n/a (	Granger Norther	rn, Inc.	84 Middl	e St. Port	land		207774350	00
Lessee/Buyer's Name P	'hone:		Permit Typ			_		Zone:
n/a r	n/a		Addition	s - Comn	nercial			R-5
Past Use: P	Proposed Use:		Permit Fee	:	Cost of Work:	CE	O District:	1
Parking Lot	Parking Garage	and Cluss Room	\$108,2	57.00	\$15,462,000.0	00	2	
	GA	CAGE	FIRE DEP		Approved	SPECTI se Group:	<b>~</b> ~~	Type: 20 7203
Proposed Project Description:								
Build Parking Garage and Chase Tan B	wilding.	CNUT	Signature: PEDESTRI		م) w si VITIES DISTRI	ignature:	<u>M</u>	W
GA	RAGE	Out	Action:	Approve		/ed w/Con	ť	Denied
$\bigcirc$			Signature			Da	te:	
Permit Taken By: Date Appl	lied For:			Toning	Approval			
gg 01/06/2			4	Lonnig	Approval			
1. This permit application does not pr	reclude the	Special Zone or Review	ws	Zoning	g Appeal		Historic Prese	rvation
Applicant(s) from meeting applicat Federal Rules.		Shoreland N	7	Variance	260 21102	milit	Not in District	or Landmark
2. Building permits do not include plu septic or electrical work.	umbing,	Wetland		Miscellar 7 WT U	iegus ge		Does Not Req	uire Review
3. Building permits are void if work is within six (6) months of the date of		Flood Zone Minel		& Condition	1 1 1 2	e 🗆	Requires Revi	ew
False information may invalidate a building permit and stop all work		Subdivision		Interpreta	tron		Approved	
		Site Plan & Constr	ude >	Approved	Dinzelea		Approved w/C	Conditions
		Maj Minor MM[		(Alem			Denied	$\mathbf{\mathcal{T}}$
	Ι	pluit cind	Z Date	::		Date:	_2	

#### 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

and a second second

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City of Portland Maina Duil	ding on Has Donni		Permit No:	Date Applied For:	CBL:	
<b>City of Portland, Maine - Buil</b> 389 Congress Street, 04101 Tel: (1	-		03-0011	01/06/2003	115 B009001	
Location of Construction:	Owner Name:		Owner Address:		Phone:	
88 Bedford St	University Of Maine		107 Maine Ave		207-228-8412	
Business Name:	Contractor Name:		Contractor Address:		Phone	
n/a	Granger Northern, Inc.		84 Middle St. Portl	and	(207) 774-3500	
Lessee/Buyer's Name	Phone:	P	ermit Type:			
n/a	n/a		Commercial			
Proposed Use:		Proposed	Project Description:			
Parking Garage		Build F	Parking C			
Dept: Zoning Status: A	pproved with Condition	$\widehat{\mathbf{C}}$	16 DCAN	< <del>-</del>	ate: 01/08/2003	
Note: 88 Bedford St		_	$A^{N}$	)	Ok to Issue: 🗹	
1) Separate permits shall be required	for any new signage.		100			
2) This permit is being approved on work.	the basis of plans submi	tte	$\bigcirc$ $\bigcirc$		fore starting that	
Dept: Building Status: A	pproved with Condition		GA	K / C	: 03/27/2003	
Note:		15	1-)4-1		to Issue:	
	41	•	レ		. to issue.	
1) Guardrails shall have ballusters w	ith openings less than 4	inche				
Dept: Fire Status: A	pproved with Condition	s <b>K</b>		Approval D	ate: 01/08/2003	
Note:			_		Ok to Issue:	
1) Handrails must be returned (P-A5	505)					
<ol> <li>the fire alarm system and sprinkler</li> <li>Department</li> </ol>		to standard and th	ne results shall be s	ubmitted to the Port	land Fire	
3) the fire alarm system shall be conr	nected to the city of port	land master box	system. Call Ben D	jaz 874-8489		
<ul><li>4) the standpipe system shall be insta</li></ul>					±1 P-F103)	
				shown in stan wen f	11-1105)	
5) the sprinkler system shall be instal						
6) the fire alarm system shall be insta	alled in accordance with	NFPA 72 standa	rds.			
Comments:						
01/07/2003-gg: Mike Nugent has orig	inal preliminary plans.	Also call John Ra	asmussen for PDF f	file. /gg		
01/09/2003-mjn: Need stamped drawi	ngs, statement of specia	l inspections, Ce	rtification forms, N	otified Owners's rep	and designer	
01/13/2003-mjn: Advised designer of % of opening questions, Length of exit access, again requested the above info. Spoke with Jon Upton, Left a message for Jon rassmussen.						
01/31/2003-mjn: Foundation only (030070) issued this date. MJN						
03/27/2003-mjn: Permit for the remain	nder of the Garage only	issued, comunity	building not a part	of this permit		

City of Portland, Maine - Buil	ding or Use Permit		Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 Tel: (	0	03-0011	01/06/2003	115 B009001	
Location of Construction:	Location of Construction: Owner Name: O			Owner Address: Phone:	
88 Bedford St	University Of Maine		107 Maine Ave		207-228-8412
Business Name:	Contractor Name:		Contractor Address:		Phone
n/a	Granger Northern, Inc.		84 Middle St. Portl	and	(207) 774-3500
Lessee/Buyer's Name	Phone:	F	ermit Type:		
n/a	n/a		Commercial		
Proposed Use:			Project Description:		
Parking Garage		Build I	Parking Garage		
Dept:ZoningStatus:ANote:88 Bedford St1)Separate permits shall be required2)This permit is being approved on			Marge Schmuckal		Ok to Issue: 🗹
work.					00/07/00000
	pproved with Conditions	Reviewer:	Mike Nugent	Approval Da	
Note:					Ok to Issue: 🗹
1) Guardrails shall have ballusters w	th openings less than 4 inc	hes, John Upt	on notified that plan	ns show 4 inches.	
Dept: Fire Status: A	pproved with Conditions	Reviewer:	Lt. McDougall	Approval Da	te: 01/08/2003
Note:			20 002 00800		Ok to Issue: 🗹
1) Handrails must be returned (P-A5	605)				
2) the fire alarm system and sprinkle Department	r system shall be tested to s	standard and th	ne results shall be su	ubmitted to the Portla	and Fire
3) the fire alarm system shall be con	nected to the city of portlan	id master box	system. Call Ben D	iaz 874-8489	
4) the standpipe system shall be insta	lled in accordance with NF	FPA 14 standa	rds ( standpipe not	shown in stairwell #1	l P-F103)
5) the sprinkler system shall be instal	led in accordance with NF	PA 13 standar	ds		
6) the fire alarm system shall be insta	lled in accordance with NF	FPA 72 standa	rds.		
Comments:			<del></del>		
1/7/2003-gg: Mike Nugent has origina	al preliminary plans. Also	call John Rasr	nussen for PDF file	. /gg	
1/9/2003-mjn: Need stamped drawing					d designer
1/13/2003-mjn: Advised designer of 9 Upton, Left a message for Jon rassmu	6 of opening questions, Le			•	e
1/31/2003-mjn: Foundation only (030	070) issued this date. MJN				
3/27/2003-mjn: Permit for the remain	der of the Garage only issue	ed, comunity	ouilding not a part o	of this permit	

City of Portland, Maine - Bui	lding or Use Permit		Permit No:	Date Applied For:	CBL:		
389 Congress Street, 04101 Tel: (	U	874-8716	03-0011	01/06/2003	115 B009001		
Location of Construction:	wner Address:		Phone:				
88 Bedford St	University Of Maine		107 Maine Ave		207-228-8412		
Business Name:	Contractor Name:		Contractor Address:		Phone		
n/a	Granger Northern, Inc.		84 Middle St. Portl	and	(207) 774-3500		
Lessee/Buyer's Name	Phone:	P	ermit Type:		· · · · ·		
n/a	n/a		Additions - Comm	ercial			
Proposed Use:		Proposed	Project Description:				
Parking Garage and Class Room Bui	lding	Build F	arking Garage and	l Classroom Building	2.		
	-		0 0		-		
Dept: Zoning Status: A	pproved with Conditions	<b>Reviewer:</b>	Marge Schmucka	1 Approval Da	te: 01/08/2003		
Note: 88 Bedford St			-		Ok to Issue: 🗹		
1) Separate permits shall be require	d for any new signage.						
<ul><li>2) This permit is being approved on that work.</li></ul>		Any devia	tions shall require	a separate approval l	before starting		
Dept: Building Status: F	ending	<b>Reviewer:</b>		Approval Da			
Note:	·				Ok to Issue: 🗆 🗌		
Dept: Fire Status: F	ending	Reviewer:	<u> </u>	Approval Da	te:		
Note:					Ok to Issue:		
Comments: 01/07/2003-gg: Mike Nugent has original preliminary plans. Also call John Rasmussen for PDF file. /gg							

FAX# EYP 617-305= JOHN UPTON-JOHN UPTON-

03 0011

# All Purpose 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: $\frac{6}{2}$	$\frac{1}{2}$	-101			
	<u>_</u>	para			
Total Square Footage of Proposed Structure     Square Foota       408,000     161,0					
Tax Assessor's Chart, Block & Lot       Chart#     Block#       U     Lot#	Owner: UNIVERS	ITY OF South	ERN MAINE		Telephone: 228 E412-
Lessee/Buyer's Name (If Applicable)	telephone	name, address :: Mouth ST ND ME C4104 8412		Wo	st Of rk: \$ 15,462,000 : \$ 108,257
Current use: PARKING WT					while be
If the location is currently vacant, what we Approximately how long has it been vace	-				Will bring in PDF in Nozfile
Proposed use: <u>ARKING GRIAGE</u> A Project description:	HD CLASS	LEDM PUILDIN	(		
Contractor's name, address & telephone: Who should we contact when the permit Mailing address: 1.0 Box 9300 Percland, ME We will contact you by phone when the p review the requirements before starting a and a \$100.00 fee if any work starts before	is ready: >4104 permit is rea ny work, wit	dy. You must co h a Plan Review	SEN ome in and	work o	order will be issued
IF THE REQUIRED INFORMATION IS NOT INCL DENIED AT THE DISCRETION OF THE BUILDING INFORMATION IN ORDER TO APROVE THIS PI	S/PLANNING				
I hereby certify that I am the Owner of record of the n have been authorized by the owner to make this app jurisdiction. In addition, if a permit for work described i shall have the authority to enter all areas covered by to this permit.	lication as his/l in this application	ner authorized agen on is issued, 1 certify	t. I agree to co that the Code	onform Officio	n to all applicable laws of this al's authorized representative
Signature of applicant: Ach fumum			Date: iv	123 1	102
This is NOT a permit, you may n if you are in a Historic District you m Planning Depc	ay be sub	ject to addition	onal perm	epe ni <del>jir</del> y	

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# All Purpose 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: 88 BEDFORD ST.		
Total Square Footage of Proposed Structure Square Foo	tage of Lot 1、08の ヸ	
Tax Assessor's Chart, Block & LotOwner:Chart#Block#Lot#UHIVERSITY06	SUTHERN MAINE	Telephone: 228 ×412
Lessee/Buyer's Name (If Applicable) Lessee/Buyer's Name (If Applicable) Joth PASMUSSEH, USM GUALMOUTH ST POPELAND ME 04	GNSTR. EHGR. WO	ost Of prk: \$ 19,400,000 e: \$ 1351223.00
Current use: PARKING LOT		gives Cheek
If the location is currently vacant, what was prior use:		_
Approximately how long has it been vacant:		~
Proposed use: PARKING GARAGE AND CLASSION Project description:	BUILDING	
Contractor's name, address & telephone: 1//A	En	horn Jappee
Contractor's name, address & telephone: $V/A$ Who should we contact when the permit is ready: <u>JOHN RASMU</u> Mailing address: $V A$ $G = 0$ V A Mailing address: $V A$ $G = 0$ V A V	SCEN Rie	and will
Mailing address: 12 R. 9700	412 bring	· 205 0.00
Portune $p_{0,r_{1}}$ $p_{1,e}$ $p_{1,e}$ $q_{1,e}$ $q_{3,e}$ $q_{3,e}$ $q_{4,e}$ We will contact you by phone when the permit is ready. You must review the requirements before starting any work, with a Plan Revie and a \$100.00 fee if any work starts before the permit is picked up.	come in and pick wer. A stop work	up the permit and
IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, INFORMATION IN ORDER TO APROVE THIS PERMIT.	THE PERMIT WILL BE WE MAY REQUIRE	AUTOMATICALLY ADDITIONAL
I hereby certify that I am the Owner of record of the named property, or that the owner have been authorized by the owner to make this application as his/her authorized age iurisdiction. In addition, if a permit for work described in this application is issued. I certify shall have the authority, to enter all areas covered by this permit at any reasonable how to this permit.	nt. Tagree to conform v that the Code Officia	to all applicable laws of this
Signature of applicant: The firm	Date: 12/13	
This is NOT a permit, you may not commence ANY we f you are in a Historic District you may be subject to addit Planning Department on the 4 <sup>th</sup> floor	ional permittine	and fees with the

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ilding Pern /ner	UNIVERSITY OF MAIN	SURRENDE 0	District: 3 Unit:		114 A004001 Closed or Comm: C	Appl Date: Issue Date: Fee Paid:	05/01/2003 05/01/2003 \$0.00
il Addr	107 MAINE AVE		BANGOR, M			Min Fee:	\$45.00
Date Appl Type: Type Appl ID	12/04/2003     Time       Electrical Permit Co       Electrical Service       2.0E+07		AM Inspector Mike Collins	菡			
Parcel Id: Contact: Phone1:	MILLIKEN BROS IN	Address: 15 C Phone2:	Surrenden	St			
Comments Date	New service lateral		AM Inspector				
Appl Type: Type Appl ID	Electrical Permit Co Certificate of Occup 2.0E+07		Mike Collins	25			
Parcel Id: Contact: Phone1:	MILLIKEN BROS IN	Address: 15 C Phone2:	Surrenden	St		1	
Comments					ModDate		

stres [	8341 2003-8033 Except Figure 1	16 Jas
Addr: BEDFOR Building Permi		n Fee \$34.00
Status:	Open Unit: District 3 Insp. Approval Date	
Date Appl Type: Type Appl ID Parcel Id: Contact: Phone1: Comments	D4/25/2003 Time 2:00 PM Inspector   Plumbing Tammy Munson Image: Comparison of the second	
Date Appl Type: Type Appl ID	D7/08/2003     Time     6:00 AM     Inspector       Plumbing     Jodine Adams     Jodine Adams       Plumbing Only     Jonathan Reed     Jonathan Reed	
Parcel Id: Contact:	114 A004001     Address:     15     Surrenden St       RANOR, INC	9. 
Phone1:	(207)645-5109 Phone2:	
Comments	Jeff Briggs @ 553-2530 for partial underground plumbing. /gg	1
		ж ж

	9E+04	
Date	11/25/2003 Time 10:00 AM Inspector	]
ppl Type:	Plumbing Tammy Munson	
Туре	Plumbing Only	
Appi ID	2.0E+07	
Parcel Id:	114 A004001 Address: 15 Surrenden St	(manual)
Contact:	RANOR, INC	
Phone1:	(207)645-5109 Phone2:	
omments	rough in of bathroom areas	
Date	12/11/2003 Time 1:00 PM Inspector	
ppl Type:	Plumbing Tammy Munson	
Гуре	Plumbing Only	
Appl ID	2.0E+07	
Parcel Id:	114 A004001 Address: 15 Surrenden St	
Contact:	RANOR, INC	
Phone1:	(207)645-5109 Phone2:	
omments	USM Garage	
Date	12/18/2003 Time 6:00 AM Inspector	
ppl Type:	Plumbing Tammy Munson	
Гуре	Plumbing Only	
Appl ID	2.0E+07	
Parcel Id:	114 A004001 Address: 15 Surrenden St	
Contact:	RANOR, INC	
Phone1:	(207)645-5109 Phone2:	
omments	USM Garage	

9E+04						
CreatedBy tmm	CreateDate	12/17/2003 ModBy tr	nm ModDate 1	2/17/2003		
CreatedBy gg	CreateDate	02/11/2003 ModBy	wd Modi	Date 02/19/2004		

tt Nbr 03-00 Status Open CBL 114		Permit Type	15 Surrendo Foundation Only/ 3 Estimated	/Commercial	\$0.00	J	01/31/2003 01/31/2003
Date	03/13/2003 Time	11:00 AM	Inspector				
Appl Type:	Building Permit		Tammy Munson	2,3			
Туре	Pre-Construction Meetin			224			
Appi ID	30070						
Parcel Id:	114 A004001 Addr	ess: 15	Surrenden St				
Contact:	Granger Northern, Inc.						1
Phone1:	(207) 774-3500 Pho	ne2:					
Comments	Site Visit - Pre con - Dav	re @ 253-5439	is the contact pe	erson.			
Date	03/20/2003 Time	7:00 AM	Inspector				
Appl Type:	Building Permit		Tammy Munson	28			
Туре	Footings/Setbacks						
Appi ID							
Parcel Id:	114 A004001 Addr	ess: 15	Surrenden St				-
Contact:	Granger Northern, Inc.						
Phone1:	(207) 774-3500 Pho	ne2:					,
Comments	USM Garage - Dave Oni	s @ Granger @	253-5439 is the	contact.			

Prmt	Text93	16024		Constr Type	New	Num1	30070
Date	03/27/2003 Time	7:30 AM In	spector				
Appi Type:	Building Permit	T	ammy Munson	28			
Туре	Footings/Setbacks						
Appl ID	30070						
Parcel Id:	114 A004001 Add	iress: 15	Surrenden St				
Contact:	Granger Northern, Inc	•					
Phone1:	(207) 774-3500 Ph	one2:					
Comments	Dave Onis @ 253-543	9 · Weekly site me	eting - footing c	n front right side	e		
Date	04/01/2003 Time	10:30 AM In	spector				
Appl Type:	Building Permit		ammy Munson	22			
Туре	Footings/Setbacks						
Appl ID	30070						
Parcel Id:	114 A004001 Add	iress: 15	Surrenden St				
Contact:	Granger Northern, Inc		10 10 10 10 10 10 10 10 10 10 10 10 10 1				
Phone1:	(207) 774-3500 Ph	one2:					
Comments	USM parking garage						
Created	By tm Cre	ateDate 04/01	/2003 ModBy	tm	ModDate	04/01/20	

CreatedBy	mjn	CreateDate	01/31/2003 ModBy	kwd	ModDate	02/18/2004	
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Prmt nit Nbr 03-0 Status Oper CBL 114	
Date Appl Type: Type Appl ID Parcel Id: Contact: Phone1: Comments	Footings/Setbacks       30011       114 A004001     Address:       15     Surrenden St       Granger Northern, Inc.       (207) 774-3500     Phone2:
Date Appl Type: Type Appl ID Parcel Id: Contact: Phone1: Comments	Footings/Setbacks         30011         114 A004001       Address:         15       Surrenden St         Granger Northern, Inc.         (207) 774-3500       Phone2:

Prmt Date	04/10/2003 Time 8:00 AM Inspector	Constr Type	Other Num1	30011
ppl Type:				
гуре. Гуре	Building Permit Tammy M Footings/Setbacks	lunson		
Appl ID	30011			
Parcel Id:	114 A004001 Address: 15 Surrende	in St		
	Granger Northern, Inc.			
Contact:		I		
Phone1:	(207) 774-3500 Phone2:			
omments	weekly site visit -			
		norma a sala persona densita de la secono de la solución		an and again an and and an and
Date	04/11/2003 Time 1:00 PM Inspector			
ppl Type:	Building Permit Tammy M	lunson		
Гуре	Footings/Setbacks			
Appl ID	30011			
Parcel Id:	114 A004001 Address: 15 Surrende	en St		
Contact:	Granger Northern, Inc.			
Phone1:	(207) 774-3500 Phone2:			
omments	footing pour · front wall and right rear corner			**************************************
			· · · · · · · · · · · · · · · · · · ·	- Marine we also and a
Date	04/17/2003 Time 8:00 AM Inspector			
ppl Type:	Building Permit Tammy M	lunson	e A	
Гуре	Footings/Setbacks			
Appl ID	30011			
Parcel Id:	114 A004001 Address: 15 Surrende	en St		
Contact:	Granger Northern, Inc.			
Phone1:	(207) 774-3500 Phone2:			
omments	weekly site meeting rebar of front right third of	free burgli and ush an of		

Prmt	Text93 16024 Constr Type Other Num1 30011
Date	04/29/2003 Time 4:00 PM Inspector
Appl Type:	Building Permit Tammy Munson
Туре	Footings/Setbacks
Appi ID	30011
Parcel Id:	114 A004001     Address:     15     Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	rebar of front middle section of wall and right middle side rebar ok to pour.
Date	05/01/2003 Time 7:00 AM Inspector
Appl Type:	Building Permit Tammy Munson
Туре	Inspection
Appl ID	30011
Parcel Id:	114 A004001 Address: 15 Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	weekly site meeting and site walk.
Date	05/07/2003 Time 1:00 PM Inspector
Appl Type:	Building Permit Tammy Munson
Туре	Footings/Setbacks
Appl ID	30011
Parcel Id:	114 A004001 Address: 15 Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	rebar insp - right rear wall ready for pour tomorrow and front middle left section ready for wall pour.

Prmt	Text93         16024         Constr Type         Other         Num1         30011
Date	05/08/2003 Time 7:00 AM Inspector
Appl Type:	Building Permit Tammy Munson
Туре	Inspection
Appl ID	
Parcel Id:	114 A004001 Address: 15 Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	weekly site walk and meeting
Date	05/22/2003 Time 7:00 AM Inspector
Appl Type:	Building Permit Tammy Munson
Туре	Inspection
Appl ID	30011
Parcel Id:	114 A004001 Address: 15 Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	Weekly site meeting and inspection · front and right walls almost complete · finishing gray beams and begin undergrad drainage.
Date	05/27/2003 Time 6:00 AM Inspector
Appl Type:	Building Permit Kevin Carroll
Туре	Plumbing Only
Appi ID	30011
Parcel Id:	114 A004001 Address: 15 Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	Rich Sandora @ 491-1389. Would like around 11:00 am. /gg

Prmt	Text93 16024 Constr Type Other Num1 30011
Date	05/28/2003 Time 12:30 PM Inspector
Appl Type:	Building Permit Tammy Munson
Туре	Plumbing Only
Appl ID	30011
Parcel Id:	114 A004001 Address: 15 Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	Building and plumbing - looked at grade beams in center of building and rear underground drain line D for grease.
Date	05/29/2003 Time 7:00 AM Inspector
Appl Type:	Building Permit Tammy Munson
Туре	Inspection
Appl ID	30011
Parcel Id:	114 A004001     Address:     15     Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	weekly site meeting and site walk.
Date	06/03/2003 Time 1:00 PM Inspector
Appl Type:	Building Permit Tammy Munson
Туре	Footings/Setbacks
Appl ID	30011
Parcel Id:	114 A004001 Address: 15 Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	Grade beams and plumbing.

Date 06/12/2003 Time 7:00 AM Inspector	
Appl Type: Building Permit Tammy Munson	
Type Footings/Setbacks	
Appl ID	
Parcel Id: 114 A004001 Address: 15 Surrenden St	
Contact: Granger Northern, Inc.	
Phone1: (207) 774-3500 Phone2:	
Comments	
Date 07/17/2003 Time 6:00 AM Inspector	
Appl Type: Building Permit Tammy Munson	
Type	
Appl ID 30011	
Parcel Id: 114 A004001 Address: 15 Surrenden St	
Contact: Granger Northern, Inc.	
Phone1: (207) 774-3500 Phone2:	
Comments weekly site meeting - setting concrete panels - looked at underground plumbing - fro	ont left drain line
Date 07/18/2003 Time 6:00 AM Inspector	
Appl Type: Building Permit Tammy Munson	
Type Plumbing Only	
Appl ID 30011	
Parcel Id: 114 A004001 Address: 15 Surrenden St	
Contact: Granger Northern, Inc.	
Phone1: (207) 774-3500 Phone2:	
Comments remaining line of front left underground line	

Prmt	Text93	16024	Constr Type	Other	Num1	30011
Date	08/07/2003 Time	6:00 AM Inspector				
Appl Type:	Building Permit	Tammy N	lunson 🛛			
Туре	Inspection					
Appi ID	30011					
Parcel Id:	114 A004001 Addre	ess: 15 Surrende	en St			. m.
Contact:	Granger Northern, Inc.					
Phone1:	(207) 774-3500 Phor	ne2:	]			
Comments	weekly inspection/site n	neeting				
		al de la companya a superior de la companya de la c	an a	emonya and analy in the		
Date	08/28/2003 Time	7:00 AM Inspector				
Appl Type:	Building Permit	Tammy N	lunson			
Туре	Inspection					
Appl ID	30011					
Parcel Id:	114 A004001 Addre	ess: 15 Surrendo	en St			
Contact:	Granger Northern, Inc.					
Phone1:	(207) 774-3500 Phor	ne2:				
Comments	weekly site meeting - ere	ection of precast - 50%	complete.			
Date	08/29/2003 Time	10:00 AM Inspector				
ppl Type:	Building Permit	Tammy N	lunson			
Туре	Plumbing Only					ж С
Appl ID	30011					
Parcel Id:	114 A004001 Addr	ess: 15 Surrende	en St			* *
Contact:	Granger Northern, Inc.	a a substance and a substance of the sub				ж. С
Phone1:	(207) 774-3500 Pho	ne2:				аў. 
Comments	partial plumbing on ven	t stacks				
		a and a second	an san san san san san san san san san s			

Prmt	Text93 16024 Constr Type Other Num1 30011
Date	09/18/2003 Time 7:00 AM Inspector
Appl Type:	Building Permit Tammy Munson
Туре	Inspection
Appl ID	30011
Parcel Id:	114 A004001 Address: 15 Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	weekly site walk and walk thru
Date	10/23/2003 Time 6:00 AM Inspector
Аррі Туре:	Building Permit Tammy Munson
Туре	Inspection
Appl ID	30011
Parcel Id:	114 A004001 Address: 15 Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	weekly site visit and meeting - complaint on guards - temp horizontal guards in place - ok
Date	11/06/2003 Time 6:00 AM Inspector
Appl Type:	Building Permit Tammy Munson
Туре	Inspection
Appl ID	30011
Parcel Id:	114 A004001     Address:     15     Surrenden St
Contact:	Granger Northern, Inc.
Phone1:	(207) 774-3500 Phone2:
Comments	weekly site visit and meeting
5 v.	

Prmt	Text93 16024		Constr Type	Other	Num1	30011
Date	12/03/2003 Time 10:00 AM	Inspector				
Аррі Туре: Туре	Building Permit Certificate of Occupancy/Final	Tammy Munson	23			
Appl ID	30011					
Parcel Id:	114 A004001 Address: 15	Surrenden St				
Contact:	Granger Northern, Inc.					
Phone1:	(207) 774-3500 <b>Phone2</b> :		L			
Comments	USM Parking Garage · c/o. They do n	not even have power	yet!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	11111		
		-				
Date	01/14/2004 Time	Inspector				
Appl Type:	Building Permit	Tammy Munson	<b>3</b> X			
Туре	Certificate of Occupancy/Final					
Appl ID	30011					
Parcel Id:	114 A004001 Address: 15	Surrenden St				
Contact:	Granger Northern, Inc.	and a second state of the second state spectrum states and second states and second states and second states a				
Phone1:	(207) 774-3500 Phone2:					
Comments	Parking Garage Final					
Date	01/16/2004 <b>Time</b> 1:00 PM	Inspector				
Appl Type:	Building Permit	Tammy Munson	265			
Туре	Certificate of Occupancy/Final					
Appi ID	30011					
Parcel Id:	114 A004001 Address: 15	Surrenden St				
Contact:	Granger Northern, Inc.					
Phone1:	(207) 774-3500 Phone2:					
Comments	Follow up for c of o.					
		ana ana amin'ny faritr'o dia mampiasa amin'ny faritr'o dia mampiasa amin'ny faritr'o dia mampiasa amin'ny farit	an a			

Prmt	Text93	1	6024	]	Constr Type	Other	Num1 30011
CreatedBy	tmm	CreateDate	01/16/2004	ModBy	tmm	ModDate	01/16/2004

CreatedBy	gg	CreateDate	01/07/2003	ModBy	kwd	ModDate	02/18/2004	



Walker Parking Consultants 20 Park Plaza, Suite 1111 Boston, MA 02116

Voice: 617.350.5040 Fax: 617.350.5048 www.walkerparking.com

January 13, 2004

Mr. Mike Nugent Building Inspections Office City of Portland 389 Congress Street Portland, ME 04101

Re: University of Southern Maine Parking Structure Walker Project No. 16-1450.00

Dear Mr. Nugent:

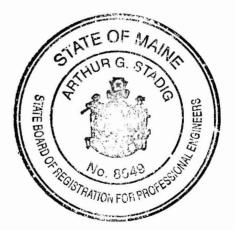
This letter serves to state that the structural work and foundation for the new Parking Structure at The University of Southern Maine in Portland, Maine was constructed in conformance with the construction documents issued for building permit dated January 21, 2003, Permit No. 03-0011, in accordance with all applicable Federal, State of Maine and City of Portland codes and ordinances (1999 BOCA National Building Code). During the course of construction, representatives under my direction made periodic visits to the site to observe the progress of the work.

Sincerely,

WALKER PARKING CONSULTANTS

Arthur G. Stadig, P.E. Vice President

cc: Bill Smith - Einhorn Yaffee Prescott



J:\15-1450.00 Unv So Maine\Certificate of Occupancy\011304LTR - Mike Nugent.doc



Walker Parking Consultants 20 Park Plaza, Suite 1111 Boston, MA 02116

Voice: 617.350.5040 Fax: 617.350.5048 www.walkerparking.com

January 16, 2004

Mr. Mike Nugent Building Inspections Office City of Portland 389 Congress Street Portland, ME 04101

Re: University of Southern Maine Parking Structure Walker Project No. 16-1450.00

Dear Mr. Nugent:

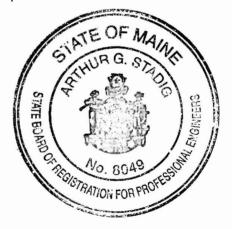
This letter serves to state that the strand and mesh guardrail system employed at the interior litewalls for this project (Detail 3/P-S501) meets the requirements of BOCA 1606.4.

Sincerely,

WALKER PARKING CONSULTANTS

Arthur G. Stadig, P.E. Vice President

cc: Bill Smith – Einhorn Yaffee Prescott



J:\16-1450.00 Unv So Maine\Certificate of Occupancy\011604LTR - Mike Nugent.doc



Walker Parking Consultants 20 Park Plaza, Suile 1111 Boston, MA 02116

Voice: 617.350.5040 Fax: 617.350.5048 www.wolkerparking.com

January 16, 2004

Mr. Mike Nugent Building Inspections Office City of Portland 389 Congress Street Portland, ME 04101

Re: University of Southern Maine Parking Structure Walker Project No. 16-1450.00

Dear Mr. Nugent:

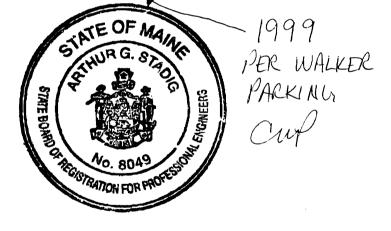
This letter serves to state that the strand and mesh guardrail system employed at the interior litewalls for this project (Detail 3/P-S501) meets the requirements of BOCA 1606.4.

Sincerely,

WALKER PARKING CONSULTANTS

Arthur G. Stadig, P.E. Vice President

cc: Bill Smith - Einhorn Yaffee Prescott



J:\16-1450.00 Unv So Maine\Certificate of Occupancy\011604LTR - Mike Nugent,doc

	114 A 201
RE:	C. of O. for the University of Southern Maine Parking Garage, Winslow/Surrenden Streets (CBL 114B001) (ID 2002-0199)
DATE:	January 15, 2004
FROM:	Jay Reynolds, Development Review Coordinator
TO:	Inspections Department

After visiting the site, I have the following comments:

Site work incomplete:

- 1. Loam and Seed.
- 2. Landscaping.
- 3. Final paving and striping.
- 4. Sidewalks.
- 5. Removal of temporary parking lot.
- 6. Misc. site work and cleanup.

I anticipate this work can be completed by July 30, 2004.

At this time, I recommend issuing a temporary Certificate of Occupancy.

Please contact me if you have any questions or comments. Thank You.

- Cc: Sarah Hopkins, Development Review Services Manager Mike Nugent, Inspection Services Manager
- File: O:\plan\devreview\USMcommunitycenterandparkinggarage\USMgarage1.doc

From:	John Upton <jupton@eypae.com></jupton@eypae.com>
То:	"mjn@ci.portland.me.us'" <mjn@ci.portland.me.us></mjn@ci.portland.me.us>
Date:	3/27/03 5:42PM
Subject:	USM Parking Garage

Dear Mike:

As you mentioned this morning during our phone conversation, you had three remaining questions prior to issue of the full Building Permit for the new USM Parking Garage. The information you're looking for follows:

1. FIRE PROTECTION STANDPIPES IN ALL STAIR TOWERS: As mentioned, all three stair towers in the garage do have standpipes. The note specifying the standpipe for stair number P-1 (north-west corner) appears in the enlarged plans shown on Sheets P-F002 and P-F003.

2. FIRE DAMPERS AT ALL RATED PARTITIONS: All duct penetrations through a rated wall will have a fire damper. We have noted through your comment, that one location was inadvertently missed: the Main Electrical Room shown on Sheet P-H101, detail A-1, enlarged plan. We will issue a Bulletin adding two fire dampers for the two duct penetrations into this room.

 LESS THAN 4" OPEN DIMENSION AT ALL GUARDRAILS: Please note the changes we made to correct the dimensions of the guardrails on the stamped and signed documents issued for Permit, dated 1/21/03.
 Sheet number P-A505, details A-1 and J-1, and Sheet number P-A506, detail M-6, revise and correct this code requirement.

Please let me know of any other questions or concerns you may have, both prior to permit, or at any point during the construction process.

Thanks for your consideration.

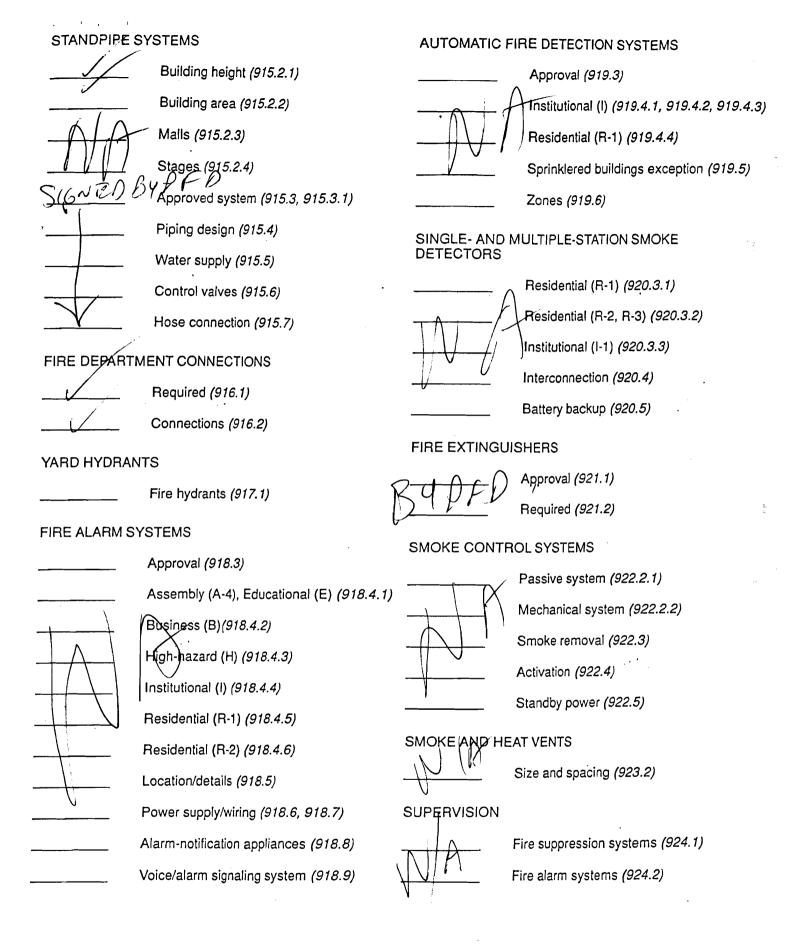
John

<http://www.eypae.com/>

John Lawrence Upton, AIA Senior Associate Einhorn Yaffee Prescott Architecture & Engineering P.C. 24 School Street Boston, MA 02108 Telephone 617 305 9828 Fax 617 305 9888

	ADMINISTRA	ATION (Chap	T - POA MONTOR
Complete cor (107.5, 10)	nstruction documents	<u> </u>	Signed/sealed construction documen (107.7, 114.1)
	DING PLANNI		
Apply Case 1 to determine the a	oups IERAL BUILDING LI Ilowable height and area d mixed use groups. App	and permitted types bly Case 2 to determine	of construction for a building containing ne the allowable height and area and pe
<ul> <li>% of Allowable tabular area (Tab % Reduction for height (Table 50 % Increase for open perimeter (5 % Increase for automatic sprinklers (506.3)</li> <li>Total percentage factor Conversion factor</li></ul>	le 503) <u>100%</u> 16.4) <u>- 30 %</u>	Open perimeter (506.2) Open perim	$\frac{45}{North} = \frac{246}{East} = \frac{270}{South} = \frac{225}{West}$ $\frac{6}{Mest}$ $\frac{6}{North} = \frac{69.5}{North} = \frac{69.5}{(Open perim./perim.) \times 100\%}$ $\frac{111}{100\%}$
CASE 1 — SINGI Using Table 503, identify the allow mixed use groups. Construction t	The set of	he single use group o wable tabular area e equal to or greater tha ( ( ( ( ( ( ) Actual building he Allowable building	AROUPS (313.1.1, 503.0) for the most restrictive of the nonseparate equal to or greater than the adjusted floc in the actual building height are permitted defined by the storie g height by feet storie assumed for review (602.3)

e ta



#### **-**9-

STEEL (Chapter 22)	
Structural steel design/construction	Formed steel design/construction standard specified (2206.1)
Shop drawing preparation specified	Formed steel member identification (2206.6)
Open-web steel joist design/construction standard specified (2205.1)	
WOOD (Chapter 23)	
Installation inspections (2301.2)	Seismic bracing (2305.8)
Design/construction standard specified	Foundation anchorage (2305.17)
Grade mark specified (2303.1.1)	Wood structural panels <i>(2307.0)</i> Particleboard <i>(2308.0)</i>
HEAVY TIMBER CONSTRUCTION	Fiberboard (2309.0)
Minimum dimensions (605.1, 2304.0)	Fireretardant-treated wood (2310.0)
Design/construction standard specified (2304.1)	Decay and termite protection (2311.0)
WOOD FRAME CONSTRUCTION	Joist hangers (2312.0)
Fastening and construction details	Prefabricated components (2313.1, 2313
Wind bracing design required (2305.7)	Metal-plate-connected trusses (2313.3.1) 2313.3.2)

. .

### NONSTRUCTURAL MATERIALS (Chapters 24, 25, 26)

GLASS AND GLAZING (Chapter 24)

Skylights (2404.0)	Safety glazin	g (2405.0, 2406.0, 2407.0)
GYPSUM BOARD	AND PLASTER (Chapter 25)	
Gypsum board materials (2503.0, Table 2503.2, Table 2503.3)	Plaster (2504	4.0, 2505.0, 2506.0)
PLAST	IC (Chapter 26)	
Approved materials (2601.2)	FOAM PLASTIC (2603.0)	
Identification (2601.4)	Labeling (260	3.2)
Interior trim (2603.7)	Surface-burni	ng characteristics (2603.3)
	Thermal barrie	er <i>(2603.4)</i>
Alternative approval (2603.8)	Exterior walls	(2603.5, 2603.6)

CORRECTION LIST (cont'd.) Code No. DESCRIPTION Section PAG 05 PACING JI-USFS 12 \_∖\_) 4" Ч MAX MUST LOCATIONS Ŀ IR FHAN C L 55 E 4 NOT 001 NHA 14 A 1 UE DO WIRC TE 6 TH AT  $\leq 0$ • • .

-3-

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### **CITY OF PORTLAND MAINE** 389 Congress St., Rm 315 Portland, ME 04101 Tel. - 207-874-8704 Fax-207-874-8716

TO:

Inspector of Buildings City of Portland, Maine Planning & Urban Development Division of Housing & Community Services

#### FROM DESIGNER: Einhorn Yaffee PRescott, Architectur

#### Engineering, P.C.

DATE: January 10, 2003

Job Name: University of Southern Maine Parking Garage

Address of Construction: 85 Bedford Street Portland, Maine

THE BOCA NATIONAL BUILDING CODE/1999 FourteenthEDITION Construction project was designed according to the building code criteria listed below:

Building Code and Year BOCA, 1999 Use Group Classification(s) S-2

Type of Construction 2C Bldg. Height 42 Feet Avg. Bldg. Sq. Footage 388,830 SF (Unprotected, non-combustible) (on five leve levels) Seismic Zone Hazard Exposure Group Class Performance Category

Roof Snow Load Per Sq. Ft. 60 P.S.F. \_\_Deed Load Per Sq. Ft\_ 90 P.S.F

Basic Wind Speed (mph) 90 M.P.H. Effective Velocity Pressure Per Sq. Ft. 30.6 P.S.F.

Floor Live Load Per Sq. Ft. 50 P.S.F. \* See documents for description of fire protection system Alam System? Yes \* No\_\_\_\_\_ Alam System? Yes X No\_\_\_\_\_ Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department.

\_See life safety plan, sheet P-L5102 for area modification Is structure being considered unlimited area building: Yes\_No\_X If mixed use, what subsection of 313 is being considered

List Occupant loading for each room or space, designed into this Project.

See life safety plan, sheet P-LS102, for occupant load

(Designers Stamp & Signature)

PSH 6/07/2K

CHARLES KIRBY





#### CITY OF PORTLAND BUILDING CODE CERTIFICATE 389 Congress St., Rm 315 Portland, ME 04101

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

FROM:	Einhorn Yaffee Prescott,	Architecture &
	Engineering, P.C.	
RE:	Certificate of Design	
DATE:	January 10, 2003	·

These plans and/or specifications covering construction work on:

University of Southern Maine Parking Garage

85 Bedford Street, Portland, Maine

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition, and local amendments.

Signature (SEAL) MAH Title KIRR EINHORN YAPPEE PRES Firm Address BOSTON, MA UZIOB

#### As per Maine State Law:

\$50,000.00 or more in new construction, repair, expansion, addition, or modification for Building or



#### CITY OF PORTLAND ACCESSIBILITY CERTIFICATE

Designer: Einhorn Yaffee Prescott, Architecture & Engineering, P.C. Address of Project 85 Bedford Street, Portland, Maine Nature of Project University of Southern Maine Parking Garage

Date January 10, 2003

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





Signatu	re thanks trich
Title	MANAETING PRINCIPM, BOSTON
Firm	EINHORD MAFEDE, PRESCOTT
Address	24 SCHOUL ST.
	BUSTON, MA 02104
Telepho	ne (1617) 305-9811

JHN-29-2003 11:2	23 WALKER PARKING	617 350 5048 P.01/03
FACSIMILE MEM		WALKER PARKING CONSULTANTS
PAGE 1		WAIKER PARKING CONSULTANTS 20 Pork Plaza, Suire 1111
DATE:	January 28, 2003	Boston, MA 02116
TO:	Mr. Michael Nugent FAX #: 207.874.	8716 Voice 617.350.5040 Fox 617.350.5048
COMPANY:	City of Portland Inspectional Services	www.walkerparking.com
ADDRESS:	389 Congress Street	
CITY/STATE:	Portland ME 04101	
COPIES TO:	John Upton/EYP FAX # 617.305.	9888
HARD COPY TO FOLLOW:	No	
TOTAL # OF PAGES:		
FROM:	Art Stodig, PE	
PROJECT NAME:	University of Southern Maine	
PROJECT NUMBER;	16-1450.00	
SUBJECT:	Special Inspections	

The following outlines the special inspections for compliance with BOCA 1705.1.1. Where applicable, the specification paragraph(s) addressing these topics has been identified. As of this date the following firms are to be involved in the inspections programs:

Engineer of Record: Walker Parking Consultants Geotechnical Engineer: Haley & Aldrich Inc. \* Owner's Testing Agency: R.W. Gillespie Associates Contractor's Testing Agency: TBD

\*Haley & Aldrich is the firm that was retained by the owner to perform the soils investigation upon which the design of foundations has been based.

Spec. Para.	Description:	Responsible Party:
02458 Para. 3.3.8	Test pile to be installed for: Axial Compressive Static Load Test: ASTM D 1143. Lateral Load Test: ASTM D 3966. Or alternate test per Note I on PGS001	Geotechnical Engineer: Haley and Aldrich shall have a qualified representative on site during all pile driving activities and tests.
02458 Para, 3.5.B	High-strain dynamic monitoring shall be performed and reported according to ASTM D 4945 during initial driving and during restriking on 15 percent of piles.	Owner Employed Testing Agency

#### SPECIAL INSPECTIONS PROGRAM

1. 16-1450-00 unv so maine \correspondence \memo012903 special inspections doc

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**FACSIMILE MEMORANDUM** 

WHLKER PARKING

SPECIAL INSPECTION STATEMENT

02458	Pile Driving Records	Pile installer responsible
Para 3.4.G		for generating records. Haley & Aldrich will be present to observe installation and record keeping.
03300 Paras: 1.5.1 & 3.15.B	Inspection of reinforcing size, location and placement with respect to construction documents and ACI 318.	Owner Employed Testing Agency
03300 Para. 3.1.A	Contractor shall employ a registered engineer to design forms and shoring required for construction. Design shall meet requirements of ACI 301.	Owner Employed Testing Agency
03300 Para, 3.15. D & F	<ul> <li>Verification of mix properties: <ol> <li>Samples obtained per ASTM C 172, "Method of Sampling Freshly Mixed Concrete."</li> <li>Air Content per either of the following: <ul> <li>ASTM C 173, "Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method."</li> <li>ASTM C 231, "Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method."</li> </ul> </li> <li>Slump per ASTM C 143, "Test Method for Slump of Portland Cement Concrete."</li> </ol></li></ul>	Owner Employed Testing Agency
03300 Para 3.15.E	Verification of concrete strength. Concrete strength shall be verified the following: ASTM C39 "Test Method for Compressive Strength of Cylindrical Concrete Specimens" ASTM C31 "Method of Making and Curing Concrete Test Specimens in the Field" ASTM C172 "Method of Sampling Freshly Mixed Concrete"	Owner Employed Testing Agency
03300 Para. 1.5.L.9	Verification of use of proper mix proportions.	Owner Employed Testing Agency
	Verification of the application techniques and maintenance of curing temperature and techniques.	Owner Employed Testing Agency
03410 Para, 1,5.F & L	Fabrication Quality Control procedures per: PCI MNL 116 "Manual for Quality Control from Plants and Production of Precast Prestressed Concrete Products" with the revisions noted in spec. 03410 para. 1.5.L.	Precaster In-House Testing Personnel with optional supervision by Owner's Testing Agency.
03410 Para. 3.2.E	Erection tolerances shall meet the requirements of PCI MNL 127 "Recommended Practice for Erection of Precast Concrete."	Contractor employed registered Land Surveyor.
03410 Para. 3.3.E	Welds and high-strength bolt connections are subject to inspection and testing by Testing Agency. As minimum, following testing shall be performed. Welds: Visually inspect all welds. • Double tee flange-to-flange connections: Test 5% of	Owner Employed Testing Agency

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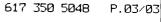


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# FACSIMILE MEMORANDUM

SPECIAL INSPECTION STATEMENT

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# PAGE 3

	welds, if at discretion of Inspector, visual inspection inconclusive.	
	All other welds: Test 25% of all field fillet welds and	
	5% of all shop welds.	
	<ul> <li>Testing: Penetrating dye or magnetic particle at</li> </ul>	
	Inspector discretion.	
ĺ	One spot test per partial penetration weld using	
	magnetic or ultrasonic testing.	
Bolt	ed Connections: Visual inspection of all connections. Check	
	per torque with calibrated torque wrench at minimum of 2	
bolt	s of every connection.	

WHERER PHRKING

Certification of material performance of materials used in the fabrication of structural elements (i.e. concrete aggregates, reinforcing steel, admixtures) shall be provided showing acceptable test results for the reference code standards in chapter 35 of BOCA and cited within the construction documents.

Owner's testing agency shall be accredited by AASHTO under ASTM C1077. Testing laboratory shall submit documented proof of ability to perform required tests. Personnel conducting field tests for concrete construction shall be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-1 or an equivalent certification program.

Design professionals hired by contractor or subcontractors shall be registered in the State of Maine.

1 16-1450 00 unv so maine \correspondence \memo012903 special inspections doc

# CITY OF PORTLAND, MAINE PLANNING BOARD

December 2, 2002

Jaimey Caron, Chair Deborah Krichels, Vice Chair Mark Malone Orlando E. Delogu Sarah Luck Kevin Beal Lee Lowry III

Mr. John Rasmussen University of Southern Maine 96 Falmouth Street Portland, ME 04103

Re: Community Education Facility and Parking Garage (Application #2002-0199, CBL 114-B-1001)

Dear Mr. Rasmussen:

At a public hearing held on November 26, 2002, the Planning Board voted unanimously 5-0 (Delogu recused) that

- i. the plan is in conformance with the Site Plan Standards of the Land Use Code with the following conditions of approval:
  - 1. -that the applicant obtains an air rights lease from the City of Portland and the State of Maine for the proposed skywalk over Bedford Street.
  - 2. -that the landscape plan be augmented per the comments contained in the 11-21-2002 memo from City Arborist, Jeff Tarling.
  - 3. -that the USM Parking Plan be reviewed for its effectiveness one year after the completion of the Parking Garage and annually thereafter for three years, by the Planning Authority.
  - 4. —that Lt. MacDougal review and approved the University's plan for the use of the I-295 emergency access lane as a temporary snow dump and storage area.
- ii. the plan is in conformance with the Conditional Use Standards of the Land Use Code.
- iii. the plan is in conformance with the standards for Site Location of Development review.
- iv. the project is granted a MDOT Traffic Movement Permit under Delegated Authority.
- v. the Planning Board recommends the discontinuance of a portion of Surrenden Street, a portion of Winslow Street and Grand Street to the City Council.
- vi. the Planning Board extends the Sunset Provision of the approval of the Alumni House Temporary Parking Expansion to the Certificate of Occupancy for the Parking Garage.

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 Marge Schmuckal, Zoning Administrator Jodine Adams, Inspections
 Larry Ash, Traffic Engineer
 Tony Lombardo, Project Engineer
 Eric Labelle, City Engineer
 Jeff Tarling, City Arborist
 Penny Littell, Associate Corporation Counsel
 Lt. Gaylen McDougall, Fire Prevention
 Don Hall, Appraiser, Assessor's Office
 Susan Doughty, Assessor's Office
 Approval Letter File
 Correspondence File

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# CITY OF PORTLAND, MAINE ZONING BOARD OF APPEALS

Elizabeth Bordowitz, Chair Catherine Decker, Secretary William Hall Julie Brady Nan Sawyer Joseph Lewis Patric Santerre

July 5, 2002

University of Maine 96 Falmouth Street Portland, Maine 04103

RE:96 Falmouth Street/86 Winslow StreetCBL:114-B-001ZONE:R-5 Zone

Dear Mr. Rasmussen;

As you know, at its August 1, 2002 meeting, the Board of Appeals voted 5-0 to grant the Practical Difficulty Appeal in accordance to plans submitted the Zoning Board.

Enclosed please find the billing for the Zoning Board of Appeals legal ad and abutters notification along with a copy of the Boards decision.

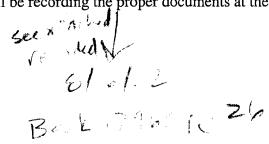
I have been notified that your Chris Vaniotis of Burnstein & Shur will be recording the proper documents at the Registry of Deeds.

Should you have any questions I may be reached at 207-874-8701.

Sincerely,

Jodine Adams Office Manager

Cc: Chris Vanitois, Esq Barry Sheff, P.E.



# CITY OF PORTLAND, MAINE ZONING BOARD OF APPEALS

To: City Clerk From: Marge Schmuckal, Zohing Administrator Date: August 2, 2002 RE: Action taken by the Zoning Board of Appeals on August 1, 2002.

The meeting came to order at 7:00

**Roll Call as follows:** 

Members Present: Elizabeth Bordowitz, Julie Brady, Joseph Lewis, William Hall and Nan Sawyer

Members Absent: Catherine Decker and Patric Santerre

## APPEAL AGENDA

The Board of Appeals held a public hearing on Thursday, August 1, 2002 at 7:00 p.m. on the second floor in Room 209 at the Portland City Hall 389 Congress Street, Portland, Maine to hear the following appeal:

1. Unfinished Business: There was no unfinished business

2. New Business:

## A. Practical Difficulty Variance

University of Southern Maine Portland Campus,96 Falmouth Street, Tax Map #114, Block B, Lot 001, Tax Map 114, Block B, Lot 002, Tax Map 114, Block A, Lot 004, Tax Map 114, Block A, Lot 012 in the R-5 Zone is requesting a Practical Difficulty Appeal under section 14-120 (dimensional requirements in regards to front, side setbacks, lot coverage and structural height) of the Portland Zoning Ordinance. This would be for the purpose of building 1,200 car parking garage, 450 +/- lecture hall, and 15,000 square foot educational center. This project will also go before the Planning Board at a later date. Woodard & Curran will be representing the University. Mr. Chris Vaniotis and Dave Early represented the applicant. The Board voted 5-0 to grant the Practical Difficulty Appeal.

3. Other Business: There was no other business

4. Adjournment: The meeting adjourned at 9:05 p.m.

Enclosure:	Agenda of August 1, 2002
	Copy of Board's Decisions
	1 standard size tapes

CC:

Joseph Gray, City Manager Mark Adelson, Housing & Community Services Alex Jaegerman, Planning Department Lee Urban, Planning & Development Director

'n,

# CITY OF PORTLAND, MAINE ZONING BOARD OF APPEALS

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## A. Practical Difficulty Variance

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3. Other Business:

4. Adjournment:

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# PRACTICAL DIFFICULTY VARIANCE

DECISION

Name and address of applicant:	NEVERSITY OF MORNE SYSTEM
· · · · · · · · · · · · · · · · · · ·	120 d126 BEDFORD STREET
Location of property under appeal:	96 FALMOUTH STREET PORTLAND ME 04103
Appearances.	
Names and addresses of witnesses (prop	onents, opponents and others): PUBLIC MEMBERS IN SWPDER OF APPLICANT;
· DAVE EARLY , U. OF SO, M	
· JUDY RYAN	· JULES OPPSEMAN OF WOODWART STREE
· SAM ANDREWS, CEO	· PETER MANNENG OF FALMOUTA_STREE
Exhibits.	- SARAN HOWES OF PORTIAND
· BARRY SAMEF SHEFF	· JOHN MOSLIEY OF DESERVE PIRST
9 BEENT BRIDDES 0 NEEL MARTIN	- JULIE ELLE OF PORTAND
· CHRIS BRENNAN	
· CHEZ VANIDIAS (SP) EST CERTIFICATION	Q BY ZONING ADMINISTRATOR

The Zoning Administer hereby certifies that:

- a. The Practical Difficulty variance applied for is permitted under §14-473(c)(3)(b)(1) (dimensional standards); and is not barred by the exceptions set forth in sections 14-473(c)(3)(a)(6) (shoreland and flood hazard areas); nor §14-473(c)(4) (relief limited to minimum variance required); nor §14-473(c)(3)(c) (specific variances prohibited); nor §14-473(c)(3)(d) (no relief for volume, floor area, nor setting of single-component manufactured homes).
- b. The property is not located, in whole or in part, within a shoreland area, as defined in 38 M.R.S.A. §435, nor within a shoreland zone or flood hazard zone as defined in this article.

PDV.FRM (Rev. 05/99)

The Zoning Administrator has certified/has not certified that the application comports with each of the above requirements.

Secretar

# ORDINANCE CRITERIA

# Findings of Fact.

2.

3.

Notwithstanding the provisions of \$14-473(c)(1) and (2) of this section, the Board of Appeals may grant a variance from the dimensional standards of this article when strict application of the provisions of the ordinance would create a practical difficulty, as defined herein, and when <u>all</u> the following conditions are found to exist:

1. The need for a variance is due to the unique circumstances of the property and not to the general conditions in the neighborhood:

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Reasons:

# Date of Public Hearing: \_

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Motion: \_

(including conditions and findings of fact) \_\_\_\_\_

# Votes in favor

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# Votes Opposed

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# City of Portland Building Permit Application Description of Project

Project:	Joel and Linda Abromson Community Education Center and Parking Garage
Applicant Name:	University of Southern Maine
Date:	December 12, 2002

Project site is bounded by Surrenden St, Bedford St., Winslow St. and Conant St. The current use of the site is a parking lot. Two small wooden office buildings will be demolished (demolition permit already received. The site of the first building, at 86 Winslow St., was cleared this past August. The second building site will be cleared the first week of January.

There are two components to this project for which the University is seeking a building permit. The first component is the construction of an 1,150 space, 5 level pre-cast concrete parking garage. It is rectangular in shape with 75,200 square feet per level, 376,000 square feet total. There will be a new 50 space surface lot adjacent to the Garage. The foundation of the garage requires approximately 250 steel "H" piles. Construction is scheduled to begin January 2003 (we hope to have a construction fence in place before students return from the holiday break on January 13) and be complete by mid January 2004.

The second component is the construction of the Joel and Linda Abromson Community Education Center -a 31,000 square foot, steel frame, two-story building, with partial basement. This facility includes a 500 seat lecture hall, classrooms and office space. The building will be attached to the Parking Garage with a shared elevator and utility core. The scope of the project includes provision for pedestrian circulation from the 4<sup>th</sup> level of the parking garage through the second level of Community Education Center over a new 110 foot pedestrian skywalk spanning Bedford Street, and landing between Masterton Hall and Luther Bonney Hall. Construction of the Center and skywalk is scheduled to begin immediately following beneficial occupancy of at least two decks of the Parking Garage.

# City of Portland Building Permit Fee Calculation

\$	9,419,000	Base Bid for Parking Garage from Granger Northern
\$	43,000	Alternate #1 from Granger Northern
\$	9,462,000	Garage Total
\$	6,000,000	CEC + Bridge estimate
\$	15,462,000	Total for Permit Fee Calculation
\$	30	1st \$1000
\$	7	per \$1000 thereafter
(15	461 x \$7 00) + \$	30.00 -

(15461 x \$7.00) + \$30.00 = **108,257** Permit FEE

# City of Portland Building Permit Application Description of Project

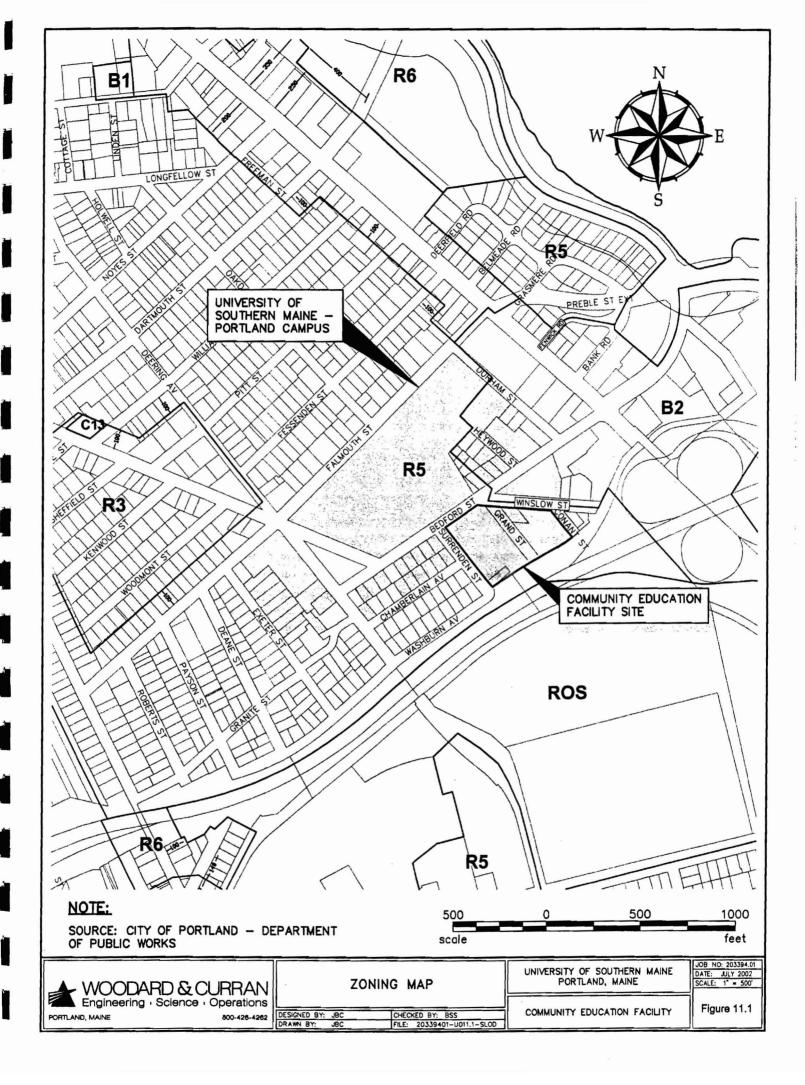
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CORPORATE OFFICES: Maine, Massachusetts, New Hampshire, Connecticut, Illinois, Florida

Operational offices throughout the U.S.

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July 15, 2002

Zoning Board of Appeals City of Portland 389 Congress Street Portland, Maine 04101

RE: Practical Difficulty Variance Application Community Education Center and Parking Garage University of Southern Maine Portland Campus

Dear Members of the Zoning Board of Appeals:

On behalf of the applicant, University of Maine System, we respectfully submit the \$100.00 application fee and eleven (11) sets of the Zoning Board of Appeals Practical Difficulty Variance Application with supporting documentation for the Board's consideration. This application includes the Preliminary Site Plan and Elevations; a copy of Tax Map 114; photographs of the property; deeds showing the University's right, title, and interest to the property; and Applicant's Agent Memorandum.

This submittal is made in accordance with Division 28 of Section 14-473, Variances, of the Code of Ordinances of the City of Portland, Maine. In this application, we are requesting a variance from the following dimensional standards in Article III, Zoning, Division 6. R-5 Residential Zone:

- Section 14-120(4)a-Minimum Yard Dimension (Setback of Structures): Front Yard-Twenty (20) feet
   Project is three (3) feet from the property line (18 feet from the curb) on Winslow Street
  - Section 14-120(4)d-Minimum Yard Dimension: Side Yard on Side Street Fifteen (15) feet
    - Project is two (2) feet from the property line (16 feet from the curb) on Surrenden Street. (We intend to petition the City of Portland to discontinue Surrenden Street, in which case this variance will be unnecessary)
- Section 14-120(5)-Maximum Lot Coverage Forty (40) Percent of Lot Area (structure)
   Proposed lot coverage on this site is 55%. (Total lot coverage campus-wide is 29%)
  - Section 14-120(7)-Maximum Structure Height: Principal Attached Structure Thirty-five (35) feet
    - Project structure height (averaged from each of the corners) forty-four (44) feet

The proposed Community Education Center and Parking Garage Project will be submitted to the City later this summer for review under Site Location of Development (SLOD) Permit and Major Site Plan Application. On December 19, 2001, Woodard & Curran and the University met with City of Portland Planning Staff and the Zoning Administrator to discuss the Project and the requirements of the SLOD and Major Site Plan Application. The University hopes to start construction on the Community Education Center and Parking Garage Project in the winter of 2003 with construction being completed in 2004. The Community Education Center and Parking Garage Project includes a 450± seat lecture hall, 15,000 square foot educational Center, 1,200 car parking garage, limited surface parking spaces and associated open space.

The proposed Community Education Center and Parking Garage Project requires Site Plan Approval under Article V of Chapter 14, Land Use, of the Code of Ordinances of the City of Portland, Maine. In accordance

41 Hutchins Drive Portland, Maine 04102 207-774-2112 207-774-6635 (Fax) 1-800-426-4262 www.woodardcurran.com

# Bernstein, Shur, Sawyer & Nelson, P.A.

100 Middle Street, West Tower, P.O. Box 9729, Portland, Maine 04104-5029 207-774-1200 Fax 207-774-1127 Internet: bssn.com

Christopher L. Vaniotis E-mail: cvaniotis@bssn.com

August 16, 2002 Received 8/21/02

Charles A. Lane, Esquire Associate Corporation Counsel City of Portland **389 Congress Street** Portland, Maine 04101-3529

#### Re: University of Southern Maine Variance Certificate

Dear Charlie:

This is to let you know that the variance certificate for the USM parking garage was recorded in the Cumberland County Registry of Deeds on August 16, 2002 at Book 17960, Page 26.

Thank you again for your help in arranging to get the certificate executed.

Sincerely. Christopher L. Vaniotis

CLV/lc

Marge Schmuckal, Zoning Administrator, City of Portland cc: Dave Early, Executive Director, Department of Facilities Management, USM Barry Sheff, P.E., Woodard & Curran

Carpenter/CLV/USM/BedfordSt/LaneLtr081602

Offices in Portland and Augusta, Maine Member, Lex Mundi, A Global Association of 158 Independent Law Firms

Applicant: Myverstyl ME System Date Address: Bedford A/Winglow/Sumenter BL CHECK-LIST AGAINST ZONING ORDINANCE 114-B-Date - New Developm Zone Location -  $\mathbb{R}$  - S Interior or corner lot -Proposed UserWork - ConStruct New parting garage Servage Disposal - (ty Lot Street Frontage - 50'\_\_\_\_ 100'+ Sh Front Yard - - ZOH - ZBA Variane Approval 6/1/02 Rear Yard - 20' rey - 20't Show Side Yard -- ZBA Var, Anea Approval e/1/02 Projections -Width of Lot - 90'V + q - Zoo'+ Shim Height - - 35 H - - 76A Varitue approval 8/1/02 Lot Area - Zolo MAX - ZBA Variture Approval 8/1/02 Lot Coverage Impervious Surface Area per Family - N/AOff-street Parking - - OVA 50,000 - determined by P.B 11/26/2002 of Loading Bays - N/A Loading Bays - N/A und 450 PB-306 11/2012-tion - NA # 2002-0/99 Site Plan - MAPP/Condi Shoreland Zoning/Stream Protection - NA Flood Plains - pAnel 5 Zone

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

2002-0199

		Insp Copy	Application I. D. Number
University Of Maine System			09/10/2002
Applicant			Application Date
96 Falmouth St, Portland, ME 04103			Community Education Ctr. & Parking G
Applicant's Mailing Address			Project Name/Description
Consultant/Agent		Winslow/Surrenden Sts., Po Address of Proposed Site	ortland, Maine
	gent Fax:	114 B001001	
Applicant or Agent Daytime Telephone	·	Assessor's Reference: Chart-	Block-Lot
Proposed Development (check all that	apply): 🔽 New Building 🦳 Bu	ilding Addition 🦳 Change Of Use	🗌 Residential 🦳 Office 🦳 Retail
Manufacturing Warehouse/D			(specify)
76,000 s. f.			R5
Proposed Building square Feet or # of	Units Acreage	of Site	Zoning
Check Review Required:			
Site Plan (major/minor)	Subdivision # of lots	PAD Review	14-403 Streets Review
Flood Hazard	Shoreland	HistoricPreservation	DEP Local Certification
Zoning Conditional Use (ZBA/PB)	Zoning Variance		Other
Fees Paid: Site Plan \$500	.00 Subdivision	Engineer Review	Date 09/17/2002
Insp Approval Status:		Reviewer	
Approved	Approved w/Conditions See Attached	Denied	
Approval Date	Approval Expiration	Extension to	Additional Sheets
Condition Compliance			
	signature	date	
Performance Guarantee	Required*	Not Required	
* No building permit may be issued unt	il a performance guarantee has bee	en submitted as indicated below	
Performance Guarantee Accepted			
	date	amount	expiration date
Inspection Fee Paid			
	date	amount	
Building Permit Issue			
	date	a.	
Performance Guarantee Reduced			
	date	remaining balance	signature
Temporary Certificate of Occupance		Conditions (See Attached)	
	date		expiration date
Final Inspection	data	ainactura	
	date	signature	
Certificate Of Occupancy	date	fan	
Performance Guarantee Released	uuto		
	date	signature	
Defect Guarantee Submitted			
L.	submitted date	amount	expiration date
Defect Guarantee Released			
	date	signature	

389 Congress St.Rm 315 Portland, ME 04101 Phone: (207)874-8700 Fax: (207)874-8716

# facsimile transmittal

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То:	John Upton	From: Mike Nug	gent
Fax:	617-305-9888	Date: January 2	27, 2003
Phone:	617-305-9800	Pages: 1	
Re:	USM (115 B009) Per	mit #030011	
🗆 Urgei	nt 🛛 For Review	Please Comment     Please R	Reply 🛛 Please Recycle
•	•	• • •	• • •
I have c	completed the initial rev	view and have the following questions/	comments:
1) I av	wait the statement of sp	pecial inspections pursuant to section 1	.705. of the BOCA Code.
		on investigation and report that has the information that will generally comply	
	ase provide additional alternative pile testing	information with regard to Note "i" on procedure.	1 page PS001, with regard to V
4) Ple	ase provide a copy of t	he Job Specs.	
5) Wh	hat is the fire rating of t	he stairways (including door assemblie	s) and the elevator shafts.

# EYP/Transmittal

To	/	City of City Ha	Portland	ction Services Mar 39 Congress Street (phone no. 207-			
Date:	ate: January 21, 2003		We Transmit:				
Project No	<b>Project No.:</b> 5001024.00		🛛 Attached	Under Separate Cover via			
Attention	:	Michael	l J. Nugent	The Following:			
Re:				Drawings	Copy of Letter	Specifications	
		Buildin	g Code Affidavits	Samples	Shop Drawing	Change Order	
				Other:			
Copies	Date		Drawing No.	Description			
1		0/03		Designer's Staten			
1		<u>0/03</u> 0/03		Building Code C Accessibility Cer			
		0/05		Accessibility Cer			
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For y			Make correct	tions noted	Revise and subm		
🗌 As rec	questec	1	🗌 Rejected		Prints returned af	fter loan to us	
🗌 Other	:						
Remarks:							
As requir	red, ple	ease let m	e know of any qu (		Hor		
Copy to: Jo	ohn Ras	mussen		From: John Upton			
Einhorn Y <i>a</i>	affee Pr	<b>escott</b> Ard	chitecture & Engined	ering, P.C.			
					617 305 9888 eypae.coi	m	

\* \* COMMUNICATION RESULT REPORT ( JAN. 15. 2004 8:42PM ) \* \* \*

FAX HEADER: GRANGER NORTERN

TRANSMITTED/STORED : JAN FILE MODE OPT	N. 15. 2004 8:38PM TION	ADDRESS	RESULT	PAGE
135 MEMORY TX		8748410	OK	7/7

\_\_\_\_\_ REASON FOR ERROR E-1) HANG UP OR LINE FAIL E-3) NO ANSWER E-2) BUSY E-4) NO FACSIMILE CONNECTION USM Parking Garage Job #410 Winslow St. Portland, Maine 04101 Phone (207)253-5439 Fax (207)253-5374 **Granger Northern Inc** TO: JAY KELY - PFD From: David Onos 6 + COVER Fax: 874 -8410 Pages: 1-11 Phone: Date: - 03 FILE Re: C CC: KE NUGENT USm VA-For Review **Urgent** DPlease Comment Please Reply Please Recycle • Comments: RECORD OF COMPLETION FOR FIRE

ALARM SYSTEM.

# **Record of Completion**

Name of	Protected Property: USM Briding Corridge Portland Protected Property:
Rep. of F	Protected Property (Name/Phone):
	Having, Jurisdiction: S.c. Dept.
Address/	Phone Number:
	s) of System or Service:
	NFPA 72, Chapter 3 - Local
	If alarm is transmitted to location(s) off premise, list where received:
	USM Sorhun Blice + Safety
	NFPA 72, Chapter 3 - Emergency Voice/Alarm Service
	Quantity of voice/alarm channels: Single: Multiple:
	Quantity of speakers installed: Quantity of speaker zones:
	Quantity of telephones or telephone jacks included in system:
	NFPA 72, Chapter 4 - Auxiliary
	Indicate type of connection:
	Local energy: Shunt: Parallel telephone:
	Location and telephone number for receipt of signals:
	NFPA 72, Chapter 4 - Remote Station
	Alarm signal received at:
	Supervisory signal received at:
	NFPA 72, Chapter 4 - Proprietary
	If alarms are retransmitted to public fire service communications center or others, indicate location
	and telephone number of the organization receiving alarm:
•	Indicate how alarm is retransmitted:
	the second s
	NFPA 72, Chapter 4 - Central Station
	The Prime Contractor:
	Céntral Station Location:
	Means of transmission of signals from the protected premise to the central station:
	McCulloh MultiplexOne-Way Radio
	Digital Alarm Communicator XTwo-Way Radio Others
	Means of transmission of alarm to the public fire service communications center:
	a. <u>11</u> <u>14</u> <del>2</del>
	System location:

PAGE 2 OF 4

Installer	Organiza	ation Name/Pho	one	Representativ	ve Name/Phone
Supplier	Marris	Inc. 803-34-	73	Dave Scaynan	883-3473
Service Organization	Norris				
Location of Record (As-Built) Drawings:	:				
Location of Owner's Manuals:					
In proved					
Location of Test Reports:					
A contract, dated	, for tes	and inspectio	n in ac	cordance with	NFPA
Standards No.(s)	, dated	·		, is in effe	ect.
2. Record of System Installation. (Fill out after installation)	stallation i	is complete and	d wiring	checked for a	opens, shorts,
ground faults, and improper branching, but price	or to cond	ucting operation	nal acc	ceptance tests	.)
This system has been installed in accordance	with the N	FPA Standards	s as lis	ted below, wa	s inspected
by BH Miliken on 1-14-04, i	includes tl	ne devices liste	d belo	w and has bee	en in service
since <u>1-13-04</u>					
NFPA 72, Chapters 1 3 4 5 0	67(	circle all that ap	oply)		
NFPA 70, National Electrical Code, Artic	cle 760				
Manufacturer's Instructions					
Other (specify):					
Signed:				Date:	
Organization:					
3. Record of System Operation:					
All operational features and functions of this sy	ystem wer	e tested by $\leq$	ach.	Danis	
on $1 - 14 - 04$ and found to be operating pro					
→ NFPA 72, Chapters 1 3 4 5	67	(circle all that a	apply)		
NFPA 70, National Electrical Code, Artic	cle 760				
Manufacturer's Instructions	 N				
Other (specify):		_			
Other (specify): Signed:		Date:	1.16	4-07	
Organization:					
4. Alarm Initiating Devices and Circuits (Use blank	ks to indic	ate quantity.⁄ợf	device	s.)	
MANUAL		- <b>,</b>			
a)/💆 Manual Stations Noncoded, .	Activating	Transm	nitters	Coded	
b) Combination Manual Fire Alarm and					
AUTOMATIC					
Coverage: Complete:	F	Partial:			
a) <u>    (    </u> Smoke Detectors				_	
		<b>4</b>		1	
b) Duct Detectors lon c) Heat Detectors FT	RR	Σ.∵ FT/RR	F	RC	
d) Sprinkler Water Flow Switches:					Coded
e) Other (list):					

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` **\**\_

- 5. Supervisory Signal Initiating Devices and Circuits (Use blanks to indicate quantity of devices.) GUARD'S TOUR:
  - a) \_\_\_\_\_ Coded Stations

H

- b) \_\_\_\_\_ Noncoded Stations \_\_\_\_\_ Transmitters
- c) \_\_\_\_\_ Compulsory Guard Tour System Comprised of \_\_\_\_\_ Transmitter Stations and \_\_\_\_\_ Intermediate Stations

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

# SPRINKLER SYSTEM:

- a) \_\_\_\_\_ Coded Valve Supervisory Signaling Attachments
- b)  $\underline{\&}$  Valve Supervisory Switches \_\_\_\_ Transmitters
- c) \_\_\_\_\_ Building Temperature Points
- d) \_\_\_\_\_ Site Water Temperature Points
- e) \_\_\_\_\_ Site Water Supply Level Points
- ELECTRIC FIRE PUMP:
- a) Fire Pump Power
- b) \_\_\_\_\_ Fire Pump Running
- c) \_\_\_\_\_ Phase Reversal
- ENGINE-DRIVEN FIRE PUMP:
- a) \_\_\_\_\_ Selector in Auto Position
- b) \_\_\_\_\_ Engine or Control Panel Trouble
- c) \_\_\_\_\_ Fire Pump Running
- ENGINE-DRIVEN GENERATOR:
- a) \_\_\_\_\_ Selector in Auto Position
- b) \_\_\_\_ Control Panel Trouble
- c) \_\_\_\_\_ Transfer Switches
- d) \_\_\_\_\_ Engine Running

6. Alarm Notification Appliances and Circuits

a) \_\_\_\_\_ Bells \_\_\_\_\_ Inch

- b) \_\_\_\_ Speakers
- c) \_\_\_\_\_ Horns
- d) \_\_\_\_\_ Chimes
- e) \_\_\_\_\_ Other: \_\_\_\_\_
- f) <u>23</u> Visible Signals Type: <u>User le fock</u> <u>22</u> with audible / without audible
- g) \_\_\_\_\_ Local Annunciator
- 7. Signaling Line Circuits:

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

Quantity: \_\_\_\_/ \_\_\_Style: \_\_\_\_\_

PAG	ε	4 C	)F 4	4

a) Primary (Main): Nominal Voltage:	Current Rating:
Overcurrent Protection:Type:	
Location:	
b) Secondary (Standby):	
Calculated capacity to drive system, in hours: 24	60
Engine-driven generator dedicated to fire alarm system:	
Location of fuel storage:	
c) Emergency or Standby System used as backup to Primary Power	Supply, instead of using a Secondary
Power Supply:	
Emergency System described in NFPA 70, Article 700	-
Legally Required Standby System described in NFPA 70, A	vrticle 701
Optional Standby System described in NFPA 70, Article 70	2, which also meets the performance
requirements of Article 700 or 701.	X .
9. System Software	
a) Operating System Software Revision Level(s): <u>2,43</u>	
b) Application Software Revision Level(s):	
c) Revision Completed by:	
(name)	(firm)
10. Comments:	· · ·
_ Sister is not complete. Addition to be added at a	- later date. Stair 3 only
has Theat and & put station installed at this time	
(signed) for Central Station or Alarm Service Company (title)	(date)
Frequency of routine tests and inspections, if other than in accordance w	vith the referenced NFPA Standard(s):
System deviations from the referenced NFPA standard(s) are:	
	(date)
(signed) for Central Station or Alarm Service Company (title)	( )
(signed) for Central Station or Alarm Service Company (title)	

Distributed by: AFAA — P.O. Box 951807 — Lake Mary, FL, 32795-1807

# INITIATING AND SUPERVISORY DEVICE TESTS AND INSPECTIONS

	LOCATION	DEVICE TYPE	PASS	FAIL
	LOCATION Brist stargur-	smalle	$(\checkmark)$	
		<u><u>SP</u></u>		
	Boot elev Labby	50	_ ( <i>s</i>	
	Cel Connector 3rd	<u>-50</u>	- (J)	()
	2rest Lall	50	_ (v)	()
	3 TI BODY	30		
	3th the cec connector	<u></u>		
	locking office			Ċ
	XACTION Rm	Carlo tert	terri (N)	()
	counting kn	50	_ (1)	
	1318 Kabet	30	_ ()	
	pry storage	<u>so</u>	- (%	
	272 St sieve bobby	50	_ ()	
	3rd fl elev lobbing	50	_ ()	
	1 <sup>si</sup> El elen tobbi	<u></u>	_ (//	
	electrical Rm	<u></u>	-x	
	Ground & clear hebby	<u></u>		
	Tele duta Ram	<u></u>	- ()	()
	chese marchine Rm	<u></u>	(V)	
2 Mark	Lipton Flow Sprink	1. Alan	_ (\scale)	
ay a si	Joter Slew Sprink	18100	_ (~)	
	elev marchine Rom	HU	_ (\)	
	stone 1	Janger	(v)	
	Starr 1	_exills	_ (1)	
	<u>start</u>	- pLII	_ (1)	
	_stair 1	- pul	- (M	
	_stone)	- frill	_ (H)	
	<u>Store</u>			
	stürl	- Hip	_ (V)	
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	Tale Porta Rm	1 amper	— (°)	
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	DID NOT OPERATE CORREC			
<u>Ľ</u>				
- <b>A</b>				
SIEM KESIORI	ED TO NORMAL OPERATION		TL	ME
IS TESTING W	AS PERFORMED IN ACCO	RDANCE WITH APPI	LICABLE NFPA S	TANDARD
	<b>T</b> OD	<u> </u>	-	
ME OF INSPEC	TOR:	DAT	E:	TIME:
GNATURE:				

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# THIS TEST

NAME OF SIGNATURE: NAME OF OWNER OR REPRESENTATIVE DATE: \_\_\_\_\_\_ TIME: \_\_\_\_\_\_ SIGNATURE: \_\_\_\_\_\_

# INITIATING AND SUPERVISORY DEVICE TESTS AND INSPECTIONS

LOCATION	DEVICE TYPE	PASS	FAIL
Sprinkler Ro	low air	( )	( )
Bulk storage			( )
11 11 0	HO	_ ()	( )
<u> </u>	Но	_ ()	( )
Starc 1	PS	_ ()	( )
<u> </u>	<u>PS</u>	_ ()	( )
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THE FOLLOWING DID NOT OPERATE COR			
		**	
SYSTEM RESTORED TO NORMAL OPERAT			
THIS TESTING WAS PERFORMED IN AC	CORDANCE WITH APPL	ICABLE NFPA ST	TANDARDS.
NAME OF INSPECTOR and Davis		Se la lle cue	TD C
SIGNATURE:	DAI	3. 1.14-04	I WIE: 10:00 km
NAME OF OWNER OR REPRESENTATIVE:			
DATE: TIM			
SIGNATURE:	3		

à



# DEAN & ALLYN, INC.

FIRE PROTECTION \* SPECIAL HAZARD

TO: DAVE			FROM:	Hariy		
COMPANY	ANGER		DATE:	1-14-04		
FAX NUMBER:			TOTAL	NO. OF PAGES INCLUDING		
PHONE NUMBER	752 5	374	SENDER	R'S REFERENCE NUMBER.		
RF.:		<u> </u>	YOUR R	EFERENCE NUMBER-		
URGENT	☐ FOR REVIEW	🗆 PLEASE	COMMENT	D PLEASE REPLY	please recycle	
NOTES/COMME	Test	Gerts	for	Sprinkler	and Stand	ppe
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32 LEWISTON RD. BLDG. 1C\* P.O. BOX 709 GRAY, ME 04039 TEL. 207/657-5646 \* FAX 207/657-5647

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	boveground Piping
	N. Test Description Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13 Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13)
completion of work, inspection and lesis shall be made by the	Land Land - En ani /1 / hare anove static diessuic in choose of
- the story's representative and witnessed by an owner's reprosentative	
	be left open during test to prevent damage. All aboveground piping leaka
connel finally leave the job. A certificate size of the of the	T II h
both representatives. Copies shall be prepared for approving Lative's	- result to an (2 7 bars) air pressure and measure orop,
s, owners and contractor. It is unlaim against contractor for faulty	the state of the s
	which shall not exceed 1.5 ps (0.1 bits) in the same air pressure drop, which normal water level and air pressure and measure air pressure drop, which $1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 $
wirements or local ordinances. All No answers and be explained as	shall not exceed 1.5 psi (0.1 bars) in 24 hrs.
operty Name: USM PARKING GARAGE	0. Tests 1. All piping hydrostatically tested at <u>200</u> psi for <u>2</u> hours 1. All piping hydrostatically tested <u>200</u> psi for <u>2</u> hours
operty Name: USM PARKING GARNES Date:	
operty Address:_Beutora st Date,	2. Dry piping pheumatically tested 3. Equipment operates properly
	<ol> <li>Equipment operates properly</li> <li>Do you certify as the sprinkler contractor that</li> </ol>
Plans 1. Accepted by Approving Authorities (Names): FIRE MARSHAL Autorities (Names): FIRE MARSHAL Autorities (Names): FIRE MARSHAL	additives and corrosive chemicals, sodium
Address: /////	silicate or derivatives of sodium silicate, brine,
3. Installation contoints to accepted piece	
4. Equipment used is approved	testing systems or stopping leaks?
Instructions ). Has person in charge of fire equipment been	5 Drain Test:
instructed as to location of control valves and	a Static pressure reading of gage located near
care and maintenance of this new equipment Wes $\Box$ No	water supply connection _ $83$ _ psi.
Care and maintenance of this new equipment	b. Residual pressure with valve in test connection
a. System components instructions	open wide 28_ psi.
b. Care and maintenance instructions	6. Underground mains and lead in connections to
D. Care and manner and that denote the Street of Yes I No	/A risers flushed before connection made to sprinkler
Lacation of system - Supplies building: DRY Sprinklor	piping and verified by copy of form No. 13-U Q Yes Q I
Sprinklers for CORE area only	A 7. Flushed by installer of underground piping  Yes
Make Model Year Made Orifice Quantity Temperature	8. If powder driven fasteners are used in concrete,
100 DRY Pard 2004 1/2 22 185	has representative sample testing been
10 MODA 2003 12 11 155 UPRIGHT	satisfactorily completed?
	P. Blank Testing Gaskets
	1. Number used: 0
	2. Locations:
Pipe and Fittings RLACK & GALV Steel	3. Number removed:
1 Time of Dinas RLACK 3 GANY SIGO	Q. Welded Piping - If welded piping was used in the system,
2. Type of Fittings: <u>SLACL &amp; MAL</u> IKON	complete the following:
Alarm Valve or Flow Indicator	1. Do you certify as the sprinkler contractor that
Type Make Model Max. Time to Operate Through Insp. Test	welding procedures comply with the require-
4" GEM FUTURE VALVE For CEC	ments of at least AWS D10.9, Level AR-3 2 Yes
	2. Do you certify that the welding was performed
L. Dry-Pipe Valve	by welders qualified in compliance with the re-
1. Make and Model: GRInnell Mod F3061 3"	quirements of at least AWS D10.9, Level AR-3 🗹 Yes 🛛 🗋
2. Serial Number:	3. Do you certify that welding was carried out in
. Quick Opening Device (Q.O.D.)	compliance with a documented quality control
1. Make and Model:N/A	procedure to insure that all discs are retrieved,
2. Serial Number:	openings in the pipe are smooth, slag and other
Dry-Pipe System Operating Test Without Q.O.D. 1. Time to trip through test connection*:	welding residue are removed, and the internal
1. Time to trip through test connection*:	diameters of piping are not penetrated $\mathbf{V}'$ Yes $\mathbf{\Box}$
2. Water pressure <u>85</u> psi. Air pressure <u>40</u> psi.	R. Cutouts (Disks)
3. Trip point air pressure 12 psi. 4. Time water reached test outlet <sup>*</sup> : 25. 5ec	Do you certify that you have a control feature to
	ensure that all cutouts (disks) are retrieved?
5. Alarm operated properly	S. Hydraulic Data Nameplate Provided BYes
. Dry-Pipe System Operating Test With Q.O.D.	T. Date left in service (with all control valves open): 1-13-0
1. Time to trip through test connection*: N/A	U. Signatures
2. Water pressure psi. Air pressure psi.	1. Name of sprinkler contractor: <u>DEAN FALLIN INC</u> 2. Tests witnessed by: <u>DAUC</u> for GRANGE
3. Trip point air pressure psi.	2. Tests witnessed by: DAUE for GRANGE
4. Time water reached test outlet*:	For property owner (Signed):
5. Alarm operated properly Q Yes No	Title: Date:
. Deluge and Preaction Valves	For sprinkler contractor (Signed):
1. Make and Model:	Title: 180. Date: 74
2. Operation:  Pneumatic  Electric  Hydraulic	V. Comments (This section is for additional explanation and no
3. Piping and detecting media supervised 🛛 Yes 🔾 No	All "No" answers must be explained here.)
4. Does valve operate from manual trip and/or	
remote control stations	
5. Is there an accessible facility in each circuit	
for testing Yes No	
6. Does each circuit operate supervision loss alarm 🗇 Yes 🗇 No	
7. Does each circuit operate valve release 9. Maximum time to operate release	
8. Maximum time to operate release;	
1. Location and Floor: <u>NAT</u>	
2. Make and Model:	
3. Setting: 95i, Outlet 95i	
5. Kesidual Pressure (Flowing) Inlef bei Cutter bei	
5. Residual Pressure (Flowing): Inlet psi, Outlet psi 6. Flow Rate: gpm	
5. Residual Pressure (Flowing): Inlet psi, Outlet psi 6. Flow Rate: gpm measured from time inspectors test connection is opened	Check here if comments continue on reverse side of this for

\_\_\_\_\_

# 8

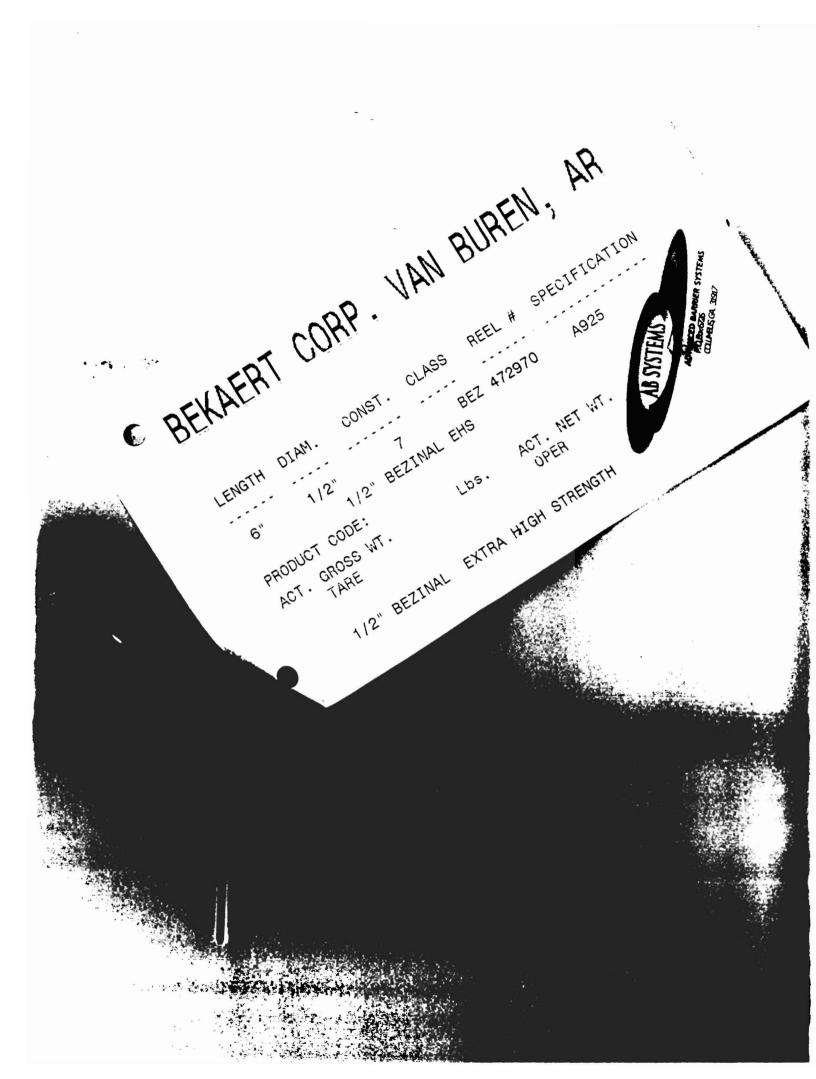
# DEAN & ALLYN, INC.

## FIRE PROTECTION \* SPECIAL HAZARD

GRANGER     1-14-04       FAX NUMBER:     TOTAL NO. OF PAGES INCLUDING COVER.       2     2       PHONE NUMBER:     SENDER'S REPERENCE NUMBER.       253     5374	TO: DAVE			PROM:	Harij	
FAX NUMBER TOTAL NO. OF PAGES INCLUDING COVER 2 FRICHE NUMBER 253 5374 SENDEN'S REPERENCE NUMBER UNGENT DFOR REVIEW DPLEASE COMMENT DPLEASE REPLY DPLEASE RECYCLE NOTES/COMMENTS. Test Certs for Sprinkler and Standpip	COMPANY:	Nger		DATE:	1-14-04	·
RE: YOUR REFERENCE NUMBER				TOTAL		
RE: YOUR REFERENCE NUMBER	PHONE NUMBER	<u> </u>	20	SENDE	R'S REFERENCE NUMBER	
NOTES/COMMENTS. Test Gerts for Sprinkler and Standpip	<i>C</i>	<u>x53 7</u>	314	YOUR	EFERENCE NUMBER-	
NOTES/COMMENTS: Test Gerts for Sprinkler and Standpip					<b></b>	
Test Certi for Sprinkler and Standpip	URGENT	G FOR REVIEW	🗆 PLEAS	e comment	D PLEASE REPLY	□ PLEASE RECYCLE
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TEL. 207/657-5646 \* FAX 207/657-5647

Contractor's Iviater la and Add Contorney (Conforms to NFPA 13-1994)	N. Test Description
the second state of work inspection and tests shall be made by un	Hydrostatic: Hydrostatic tests shall be made at not less than 200 psi (13.)
witnessed by an owner's representative. An	bars) for two hours or 50 psi (3.4 bars) above static pressure in excess of 150 psi (10.2 bars) for two hours. Differential dry-pipe valve clappers sha
ontractor's representative and system left in service before contractor's effects shall be corrected and system left in service before contractor's ersonnel finally leave the job. A certificate shall be filled out and signed	be left open during test to prevent damage. All aboveground piping leakag
both concernatives Conies shall be prepared for approving aution-	whall be stopped
as summers and contractor. It is understood the owner's representatives	<b>Pneumatic:</b> Establish 40 psi (2.7 bars) air pressure and measure drop, which shall not exceed 1.5 psi (0.1 bars) in 24 hrs. Test pressure tanks at
gnature in no way prejudices any claim against contractor for faulty inaterial, poor workmanship, or failure to comply with approving authority's	normal water level and air pressure and measure air pressure drop, which
equirements or local ordinances. All "No" answers shall be explained in	shall not exceed 1.5 psi (0.1 bars) in 24 hrs.
a Comments portion of this form.	
roperty Name: USM PARKING _ GARNES	<b>O. Tests</b> 1. All piping hydrostatically tested at $200$ psi for $\frac{2}{100}$ hours
roperty Address: Bearbra at Date:	2. Dry piping pneumatically tested
1. Accepted by Approving Authorities (Names): FIRE MARSHAL	3. Equipment operates properly I Yes UNC 4. Do you certify as the sprinkler contractor that
	additives and corrosive chemicals, sodium
3 Installation conforms to accepted plans	silicate or derivatives of sodium silicate, brine,
4. Equipment used is approved  Yes I No	or other corrosive chemicals were not used for
. Instructions	testing systems of suppling reads.
). Has person in charge of fire equipment been	5. Drain Test:
instructed as to location of control valves and $area and maintenance of this new equipment area and maintenance of this new equipment area and the second second$	a. Static pressure reading of gage located near water supply connection psi.
care and maintenance of this new equipment $\Box$ Yes $\Box$ No 2. Have copies of the following been left on the premises:	b. Residual pressure with valve in test connection
a. System components instructions	open wide <u>28</u> psi.
b. Care and maintenance instructions <b>B</b> Yes <b>D</b> No	6. Underground mains and lead in connections to
a NEPA 25 GYes O No	$\nu/\rho$ risers flushed before connection made to sprinkler
Location of system - Supplies building: DKY Sprinkler	piping and verified by copy of form No. 13-U Q Yes Q N
Sprinklers tor coke area only	1/2 7. Flushed by installer of underground piping  Yes N
Make Model Year Made Orifice Quantity Temperature	8. If powder driven fasteners are used in concrete,
VCO DRY Para 2004 12 22 185	has representative sample testing been
YCU MODA 2003 12 11 155 UPRIG	y sausidotomy completed:
YCC 100 2003 1/2 ( 155 SIDENA	P. Blank Testing Gaskets 1. Number used:
	2. Locations:
. Pipe and Fittings 1 Ture of Pine: BLACK & GALV Steel	3. Number removed:
1. Type of Pipe:BLACK & GALV Steel	Q. Welded Piping - If welded piping was used in the system,
2. Type of Fittings: BLACK & MAL IRON	complete the following:
G. Alarm Valve or Flow Indicator	1. Do you certify as the sprinkler contractor that
Type Make Model Max. Time to Operate Through Insp. Test 4" GEN Future VALVE for CEC	welding procedures comply with the require- ments of at least AWS D10.9, Level AR-3
4" GEM FUTURE VALVE for CEC	2. Do you certify that the welding was performed
L Dry-Pipe Valve	by welders qualified in compliance with the re-
1. Make and Model: GRInnell Mode F3061 3"	quirements of at least AWS D10.9, Level AR-3 🗹 Yes 🗆 N
2. Serial Number:	3. Do you certify that welding was carried out in
. Quick Opening Device (Q.O.D.)	compliance with a documented quality control
1. Make and Model: <u>N/A</u>	procedure to insure that all discs are retrieved,
2. Serial Number:	openings in the pipe are smooth, slag and other
Dry-Pipe System Operating Test Without Q.O.D. 1. Time to trip through test connection*:	welding residue are removed, and the internal diameters of piping are not penetrated Vyes ON
2. Water pressure <u>\$5</u> psi. Air pressure <u>40</u> psi.	diameters of piping are not penetrated Q/Yes N R. Cutouts (Disks)
3 Trip point air pressure 12 psi	Do you certify that you have a control feature to
4. Time water reached test outlet*: 25 5 cc	ensure that all cutouts (disks) are retrieved? $\Box$ Yes $\Box$ N
5. Alarm operated properly	S. Hydraulic Data Nameplate Provided ZYes DN
. Dry-Pipe System Operating Test With Q.O.D.	T. Date left in service (with all control valves open): 1-13-04
1. Time to trip through test connection*: N/A	U. Signatures
2. Water pressure psi. Air pressure psi. 3. Trip point air pressure psi.	1. Name of sprinkler contractor: DEAN FALLIN INC
4. Time water reached test outlet*:	2. Tests witnessed by: DAUC for GRANGER
5. Alarm operated properly	For property owner (Signed):
. Deluge and Preaction Valves	Title: Date: For spinkler contractor (Signed): Kug
1. Make and Model:////////////////////////////	Title: 120 MgR. Date: 1-14-0
2. Operation: Deneumatic Delectric Delectric Delectric Delectric	V. Comments (This section is for additional explanation and note
3. Piping and detecting media supervised 🛛 Yes 🔾 No	All "No" answers must be explained here.)
4. Does valve operate from manual trip and/or	
remote control stations	
5. Is there an accessible facility in each circuit	
for testing	
7. Does each circuit operate valve release	
8. Maximum time to operate release;	
I. Pressure Reducing Valve	
1. Location and Floor:/ff	
2. Make and Model;	
3. Setting:	· · · · · · · · · · · · · · · · · · ·
4. Static Pressure: Inlet psi, Outlet psi	
5. Residual Pressure (Flowing): Inlet psi, Outlet psi	
6. Flow Rate: gpm	



02/0

# Designation: A 855/A 855M - 98

AMERICAN BOCIETY FOR TEXTING AND MATERIALS 108 Berr Hurbor Dr., Went Construction, RA 19426 Reprinted from the Annual Book of ASTM Bunderds, Cupyright ASTM

# Standard Specification for Zinc-5 % Aluminum-Mischmetal Alloy-Coated Steel Wire Strand<sup>1</sup>

This standard is issued under the fixed designation A \$551A \$55M; the number immediately following the designation infinates the year of uniginal adoption or, in the case of revision, the year of last respectval. A superactive epsilon (4) indicates an adhorial change since the jest revision or respiraval.

#### 1. Scope

1.1 This specification covers five grades of zboc-5% aluminum-mischmetal (Zn-5 Al-MM) alloy-costed, steel wire strand, composed of a number of round, steel wires, with four weights of Zn-5 Al-MM alloy coatings, suitable for use as guys, messengers, span wires, and for similar purposes. The product is intended for applications requiring comotion resistance and formability.

1.2 The five grades covered are as follows:

1.2.1 Utilities,

1.2.2 Common,

1.2.3 Siemens-Martin,

1.2.4 High-strength, and

1.2.5 Extra high-strength,

1.2.6 Minimum breaking strengths of strand for each grade are described in Section 8.

1.3 The four weights of coatings are: Type I and Classes A., B, and C. Minimum weights of Zn-5 Al-MM alloy are described in Section 12.

1.4 This specification is applicable to orders in either inch-pound units (as A 855) or acceptable SI units (as A 855M). Inch-pound units and SI units are not necessarily equivalent.

#### 2. Referenced Documents

2.1 ASTM Standards:

A 90 Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles<sup>2</sup>

A 902 Terminology Relating to Metallic Coated Steel Products<sup>2</sup>

B 750 Specification for Zine-5 % Aluminum-Mischmetal Alloy (UNS Z 38510) in Ingot Form for Hot-Dip Coatings<sup>3</sup>

E 47 Method for Chemical Analysis of Zino Die-Casting Alloys<sup>4</sup>

E 1277 Test Method for Chemical Analysis of Zinc-5 %

<sup>2</sup> Annual Book of ASTM Standards, Vol (11,06.

Annual Book of ASTM Standards, Vol 02.04.

Annual Book of ASTM Standards, Vol 03.05.

Aluminum-Mischnetal Alioy by ICP Argon Plasma Spectrometric Method<sup>3</sup>

2.2 Other Standard:

GF-1 Standard Practice for Determination of Cerium and Lanthanum Compositions in Galfan Alloy (5-Al-0.04 % La-0.04 % Ce-Bal SHG Zn)<sup>6</sup>

#### 3. Terminology

3.1 Definitions—For definitions of terms used in this specification refer to Terminology A 902.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 strand—the designation of the finished strand shall be expressed as the nominal diameter of the strand, the number of the wires in the strand and the minimum breaking strength of the strand (see Section 8), and the type or class of coating (see Section 12).

#### 4. Ordering Information

4.1 Orders for material under this specification shall include the following information:

4.1.1 Quantity of strand in feet (metres),

4.1.2 Nominal strand diameter, number of wires, grade, and minimum breaking strength of strand (Section 6 and Table 1),

4.1.3 Weight (typo and class) of Zn-5 Al-MM alloy coating (Section 13 and Table 2), and

4.1.4 Length of strand in colls or on reels (Section 20).

#### 5. Materials and Manufacture

5.1 Base Metal—The base metal shall be steel made by the open-bearth, basic-oxygen, or electric-furnace process and of such quality and purity that, when drawn to the size of wire specified and coated with Zn-5 Al-MM alloy, the finished strand and the individual wires shall be of uniform quality and have the properties and obstactivistics as prescribed in this specification.

5.2 Coaling Bath Analysis—The bath metal used in contimous hot-dip Zn-5 Al-MM alloy-coating shall meet the chemical composition limits specification B 750.

5.2.1 For a two-step coating operation where the first coating is zine (hot-dip galvanized or electrogalvanized) the

<sup>4</sup> Available from International Lend Zine Research Organization, 2525 Meridian Parkway, P.O. Box 12036, Research Triaugte Park. NC 27709-2036.

<sup>&</sup>lt;sup>1</sup> This specification is under the jurisdiction of ASTM Committee A-5 on Metallic Coated Iron and Steel Products and is the divisi responsibility of Subcommittee A05.12 on Wire Specifications.

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#### TABLE 1 Physical Properties of 2n-5 Al-MM Alloy-Canad Steel Wire Strand

Norm-The numbers in boldface indicate sizes and grades most commonly used and readily available.

Nominal Diameter of					Minimum Brazikir	g Strength of Stran	1 of Strand, lbf (kN)		
Strend, in. (mm)	Wires in Strand	Diameter of Coated Wines in Strend, in. (mm)	Vegnt of Strand, ib/1000 ft (kg/ 304.8 m)	Utilitian Grade <sup>ra</sup>	Common Grade	Biemons- Martin Grade	High-Strength Grade	Extra High- Strangth Grade	
1/3 (3.18)	7	0.041 (1.04)	32 (15)	·····	540 (9.402)	910 (4.048)	1 330 (5.918)	1 830 (8.140)	
<sup>1</sup> ∕sc (3.97)	7	0.052 (1.32)	51 (22)		<b>570 (3.870)</b>	1 470 (6,599)	2 140 (9.519)	2 940 (13.078)	
₄⁄ı∎ (4.76)	7	0.062 (1.57)	78 (33)		1 150 (6.119)	1 900 (8.452)	2 850 (12.677)	3 890 (17.748)	
¥1a (4.7€)	7	0.065 (1.65)	80 ( <b>36</b> )	2 400 (10.676) (1) <sup>8</sup>					
<sup>7</sup> /m (S.56)	3	0.104 (2.64)	65 (40)		1 400 (6.220)	2 340 (10.409)	3 500 (15.589)	4 900 (21.796)	
7/3z (5.56)	7	0.072 (1.83)	98 (44)		1 540 (6.850)	2 560 (11.397)	3 850 (17,128)	5 400 (24.020)	
<sup>4</sup> (6.35)	3	0,120 (3.05)	117 (53)	3 150 (14.012) (2)	1 860 (8.274)	3 040 (13.523)	4 730 (21.040)	5 740 (29.981)	
14 (6.35)	3 7	0.120 (3.05)	117 (63)	4 800 (20.017) (3) <sup>9</sup>			4 755 751 100		
1/4 (8.35)	3	0.080 (2.03)	121 (55)	***	1 900 (A.482)	3 150 (14.012)	4 750 (21.129)	6 650 (29.581)	
%ar (7.14) %ar (7.14)	7	0.130 (3.30)	\$\$7 (B2)		2 080 (9.252)	3 360 (15.035)	5 260 (23,399)	7 500 (33,368)	
		0.093 (2.38)	164 (74)	4 600 (20.462) (1) <sup>P</sup>	2 570 (11 432)		5 400 (29,469)	8 950 (39.812)	
5/16 (7.94) No. 17 64)	9 7	0.145 (3.68)	171 (75)	< 500 (28.913) (S) <sup>0</sup>	2 490 (11.076)		8 350 (28.248)	9 100 (40.479)	
%u (7.94) %u (7.94)	7	0.104 (2.64)	205 (93)		3 200 (14.234)	5 350 (23.798)	<b>8</b> 000 (35.588)	11 200 (49.520)	
3/1 (17.52)	3	0.109 (2.77)	225 (102)	6 000 (28.689) (1) <sup>#</sup>					
	3 7	0.165 (4.19)	220 (100)	8 500 (37.810) (3)	9 330 (14.813)		8 360 (37.187)	11 800 (52.489)	
₩ (9.52) %e (11.11)	7	0,120 (3,05)	273 (124)	11 \$00 (\$1.155) (4) <sup>9</sup>	4 260 (18.905)		10 800 (48.040)	15 400 (68.503)	
54 (12,70)	7	0.145 (3.68) 0.165 (4.19)	309 (181)	18 000 (80.088) (4) <sup>8</sup> 25 000 (111,206) (4) <sup>9</sup>	5 700 (28.355)		14 500 (64.499)	20 600 (92.523)	
	,	0,100 (4.13)	517 (234)	23 000 (111206) (4/*	7 400 (32.917)	12 100 (53,823)	18 800 (83.527)	28 900	
12.70)	19	0,100 (2.54)	504 (229)		7 820 (33.895)	10 700 /20 /000	10 100 /04 004	(119.857)	
~~ (12.1.4)			50% (22.0)	• • •	/ 620 (33.083)	12 700 (56.492)	18 100 (84.961)	26 700 (118.7 <i>6</i> 9)	
‱ (14.28)	7	0.189 (4.78)	671 (304)		<b>8 800 (42.703)</b>	15 700 (69.837)	24 500	315 000	
	•	0(10= (	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• • •	# 000 (42.700)	15 700 (08.037)	(108.981)	(155.688)	
Via (14.29)	19	0.113 (2.87)	637 (209)		9 640 (42.881)	16 100 (71.818)	24 100	33 700	
		0.110 (0.017		•••	3 0-0 (-0.001)	10 100 (7 1210)	(107.202)	(149,905)	
44 (15.88)	7	0.207 (5.28)	813 (369)		11 800 (51.599)	19 100 (84,961)	29 600	42 400	
, , , , , , , , , , , , , , , , , , , ,	•		010 (000)	•••	17 000 (01.000)	10 100 (04,001)	(131.667)	(198,605)	
<b>% (15.88</b> )	10	0.125 (3,18)	796 (361)		11 000 /48 65/3	18 100 (80.513)	28 100	• •	
		0.120 (0.10)		• • •	11 000 (44.880)	10 100 (64.513)	(124.995)	40, 200 (178,819)	
% (19.05)	19	0.150 (3,81)	1 185 (524)		16 000 /71 1791	28 200 (116.543)	40 800	S8 300	
(				• • •		20 200 (110,545)	(181,487)	(259.331)	
% (22.22)	19	0.177 (4.50)	1 581 (717)	•••	21 900 (97.416)	35 900 (159.691)	55 800	78 700	
- (,		•••••		•••	2. 000 (011-10)	00 000 (100.001)	(248,211)	(354.523)	
1 (25.40)	19	0.200 (5.05)	2 073 (940)	•	28 700 (127.664)	47 000 (209.068)	73 200	104 500	
. ,			,	••••	20 100 (1211004)	4/ 000 (203,000)	(325.610)	(484.839)	
(25.40)	57	0.143 (3.63)	2 057 (833)		28 300 (125.88h)	48 200 (205.508)	71 800	102 700	
•			,				(319.827)	(456.032)	
1 1/2	37	0,181 (4.09)	2 691 (1 221)	• • •	36 000(180.136)	56 900 (262.000)	91 600	190 800	
		· · ·		• • •			(407,457)	(581.927)	
14 (31.75)	37	0.179 (4.55)	3 248 (1 473)		44 600 (198.391)	79 000 (324.720)	113 600	162 200	
••							(505-318)	(721.502)	

A The utilities grade is used principally by communication and power and light industries.

PRofer to enlongation requirements specified in Section 9.

TABLE 2 Elongation Requirements for Grades of Strand

Grade of Strand	Elongation in 24 in. [610 mm]. min, %
Littlittes Grade (1)" and Common Strand	10
Utilities Grade (2) <sup>4</sup> and Siemons-Martin	8
Utilidae Grade (5) <sup>4</sup> and High-Birongth	Б
Litilities Grade (4) <sup>4</sup> and Erirs High-Strength	4

"See Table 1, Footnote B.

final bath may have an aluminum content of up to 7.2 %, to prevent depletion of the aluminum content of the bath.

5.2.2 Method of Analysis—The determination of chemical composition shall be made in accordance with suitable chemical (see Test Method E 47 for tin) ICP Argon Plasma Spectrometric (see Test Method E 1277) or other methods. In case of dispute, the results secured by Test Method E 1277 shall be the basis of acceptance. 5.2.3 A standard practice of X-ray fluorescence spectrometry for determination of corium and lambanum in a zinc-5 % aluminum-mischmetal alloy has been established by the International Lead Zinc Research Organization (see Standard Practice GF-1). In case of dispute, the results secured by Test Method E 1277 shall be the basis of acceptance.

#### 6. Stranding

6.1 Unless otherwise specified, strand shall have a left lay. A left lay is defined as a counter-clockwise twist away from the observer. All wires shall be stranded with uniform tension. Stranding shall be sufficiently close to ensure no appreciable reduction in diameter when stressed to 10 % of the minimum breaking strength.

6.2 The 3-wire strand shall consist of three wires concentrically twisted with a uniform pitch of not less than 14 nor more than 20 times the specified nominal diameter of the strand.

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6.3 The 7-wire strand shall consist of a center wire with a 6-wire layer concentrically twisted over it with a uniform pitch of not more than 16 times the specified nominal diameter of the strand.

6.4 The 19-wire strand shall consist of a center wire with a 5-wire layer concentrically twisted over it, having a right lay and a uniform pitch of not more than 16 times the nominal diameter of this 7-wire core. The nominal diameter of this 7-wire core shall be considered to be three times the nominal diameter of the wires. A 12-wire outer layer, having a left lay shall be concentrically rwisted over the 7-wire core and shall have a uniform pitch of not more than 16 times the specified nominal diameter of the strand.

6.5 The 37-wire strand shall consist of a center wire with a 6-wire layer concentrically twisted over it having a left lay and a uniform pitch of not more than 16 times the nominal diameter of this 7-wire inner core. The nominal diameter of this 7-wire inner core shall be considered to be three times the nominal diameter of the wire. An intermediate layer of 12 wires having a right lay shall be concentrically twisted over this 7-wire core and shall have a uniform pitch of not more than 16 times the nominal diameter of this 19-wire core. The nominal diameter of this 19-wire core shall be considered as five times the nominal diameter of the wires. An 18-wire outer layer, having a left lay shall be concentrically twisted over the 19-wire core and shall have a uniform pitch of not more than 16 times the nominal diameter of the wires. An 18-wire outer layer, having a left lay shall be concentrically twisted over the 19-wire core and shall have a uniform pitch of not more than 16 times the specified nominal diameter of the strand.

6.6 All wires in the strand shall lie naturally in their true positions in the completed strand and, when the strand ls cut, the ends shall remain in position to be readily replaced by hand and then remain in position. This may be accomplished by any means or process, such as preforming, post forming, or form setting.

## 7. Joints and Splices

7.1 Electric-welded butt joints made prior to the start of cold drawing of the wire are permitted; however, no electric-welded butt joints shall be made during the cold drawing operation. Electric-welded butt joints of the wire shall be permitted only as specified in 7.2.

7.2 In 3-wire strand, there shall be no joints made in the individual finished wire. In 7-wire strand, joints made in individual finished wires shall be acceptable provided there is not more than one joint in any 150-ft [45.7-m] section of the completed strand and the location of each joint is marked on the strand with paint or some other distinguishing mark. Factory joints made in the individual finished wires of 19 and 37-wire strand shall be kept well spaced and at a minimum in number.

7.3 Joints in the wires composing the strand shall be either the brazed-lap type or electric-butt-welded type. When the brazed type of joint is used, the length of the lap shall be not less than three times the diameter of the wire and the overlapping faces shall be smooth, clean, properly fluxed, and completely covered by the brazing metal. When the electricwelded type of joint is used, care shall be taken to prevent injury to the wire during electric-butt welding. All joints shall be well made and shall be coated with zinc or zinc alloy after completion so that the joints shall have protection from corrosion equivalent to that of zinc alloy-coated wire.

7.4 There shall be no strand joints or strand splices in any length of the completed strand unless specifically permitted by the purchaser.

#### 8. Breaking Strength and Weight

8.1 The approximate weight per 1000 ft or 305 m, of strand, and the minimum breaking strength of the finished strand shall be as specified in Table 1.

8.2 A test in which the breaking strength is below the minimum specified and which may have been caused by the slipping of the specimen in the jaws of the testing machine, by breaking within the jaws or within 1 in. (25.4 mm) of the jaws, or by the improper socketing of a specimen shall be disregarded and another sample from the same coil or reel shall be tested. Tests shall be made on lengths of strand that do not contain wire joints or splices.

#### 9. Elongation

9.1 The elongation of the strand in 24 in. [610 mm] shall be not less than that specified in Table 2.

9.2 The elongation shall be determined as the percent increase in separation between the jaws of the testing machine from the position after application of the initial load to the position at the initial failure in the test specimen. The separation of the jaws of the testing machine shall be approximately 2 ft when under an initial load equal to 10 % of the required minimum breaking strength of the strand. The elongation values shall be recorded only for specimens that break over 1 in, from the jaws of the testing machine. Additional samples shall be taken from the same coil or reel when the previous tests are to be disregarded.

9.3 Elongation tests shall be made on lengths of strand that do not contain wire joints or splices.

#### 10. Permissible Variation in Size

10.1 The diameter of the Zn-5 Al-MM alloy-coated wire forming the strand specified in Table 1 shall be within the limits prescribed in Table 3.

#### 11. Sampling

11.1 Sampling for determination of compliance of this specification shall be performed on each lot of material. A lot shall consist of all the strand of one size and one grade in each shipment. The number of samples to be taken shall be as follows:

TABLE 3 Permissible Variations in Dismoter of Individual Zn-5 Al-MM Allay-Coated Steel Wires

Nominal Diameter of Coulad Wiree in the Strand, in. (rum)	Permissible Variationa ±in. [mm]
0.041 to 0.060 [1.04 to 1.52]	0.002 [0.05]
0.061 to 0.080 [1.55 to 2.29]	0.003 (0.00)
0.091 to 0.120 (2.31 to 3.08)	0.004 [0.10]
0.121 and over (9.07 and over)	0.005 10.131

<sup>A</sup> It is recognized that the surfaces of heavy costings, particularly those produced by the hot-dip process, are not perfectly smooth and develd of insplicities in the being ances shown in Table 3 are rigidly applied to such imegularities that are inhonent to the product, unjustified rejections of wire that would accur. Thentone, it is intended that those tolerances be used in gaping the uniform amaze of the costed wire.

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	Number of Stamples			Alloy-Costed	
5000 ft [1524 m] of iees Over 8000 to 30, 000 ft [1624 to \$144 m]	î 2	Nominal Diameter of Coggod Wire In	Misim	um Weight of C Uncoased V	
Over 30 000 to 150 000 ft (\$144 to 45 720 m) Over 150 000 ft (45 720 m)	3 4	the Strand, In. (mm)	Type 1 <sup>8</sup>	Class A <sup>C</sup>	Class

11.2 Each sample taken shall be subjected to all tests prescribed in Sections 6, 8, and 9.

11.3 In addition to the strand testing in 11.2, the individual wires shall be tested. The number of individual wires to be selected from each sample of strand and tested to determine compliance with Sections 10, 12, 14, and 15 shall be as follows:

11.3.1 3-Wire Strand-Three wires.

11.3.2 7-Wire Strand-Four wires.

11.3.3 19-Wire Strand—Three wires from each layer (total of xix wires).

11.3.4 37-Wire Strand-Three wires from each layer (total of nine wires).

North 1---Individual wire samples selected for compliance to Section 10 shall be discarded if any distortion of the wire occurred during the stranding operation.

11.4 Instead of testing the wires from the complete strand in secondance with 11.3, the producer may elect to establish compliance with Sections 10, 12, 14, and 15 of this specification by tests made on the wires prior to standing, unless otherwise stipulated by the purchaser. However, if the producer makes this election, the purchaser still reserves the right to test wires from the completed strand for compliance.

#### 12. Weight of Coating

12.1 The weight of Zn-5 Al-MM alloy-coating in ounces per square foot or grams per square metre of uncoated wire surface, shall be not less than specified in Table 4.

#### 13. Tests of Coating

13.1 The weight of the Zn-5 Al-MM coating shall be determined by a stripping test in accordance with Test Method A 90, except that the test is applied to this alloy costing.

#### 14. Adherence of Coating

14.1 The Zn-5 Al-MM alloy-coated wire shall be capable of being wrapped at a rate not exceeding 15 turns per minute in a close helix of at least two turns around a cylindrical mandrel equal to three times the nominal diameter of the wire under test, without cracking or flaking, the alloy coating to such an extent that any coating can be removed by rubbing with the bare fingers. Loosening or detachment during the adhesion test of superficial, small particles of the Zn-5 Al-MM alloy-coating formed by mechanical polishing of the surface of the coated wire shall not be considered cause of rejection.

#### 15. Ductility of Steel

15.1 The Zn-5 Al-MM alloy-coated wire shall not fracture when wrapped at a rate not exceeding 15 turns per minute in a close helix of at least two turns around a cylindrical mandrel. The mandrel diameter for testing Common and Siemens-Martin Grade strand shall be equal to the nominal diameter of

ABLE 4	Nominal Dismators and Minimum Weights of Coating
	for Zost Al-MOV Allow-Costed Steel Wires"

Nominal Diameter of Coated Wire in	Minimum Weight of Coating, az/it <sup>a</sup> (g/m <sup>2</sup> ) of Uncoated Wire Burface					
the Strand, In. (mm)	Type 1 <sup>8</sup>	Cises AC	Class B <sup>C</sup>	Çiase CC		
0.041 (1.04)	0.15 (48)	0.40 (122)	0.80 (244)	1.20 (366)		
0.052 (1.32)	0.15 (48)	0.40 (122)	0.80 (344)	1.20 (365)		
0.062 (1.57)	0.15 (46)	0,50 (153)	1.00 (305)	1.50 (459)		
0.065 (1.65)	0.15 (40)	0.50 (153)	1.00 (305)	1.80 (458)		
0.072 (1.83)	0,75 (45)	0,60 (153)	1.00 (305)	1.50 (458)		
0.080 (2.03)	0.30 (92)	0.00 (189)	1.20 (388)	1.80 (549)		
0.093 (2.36)	0.30 (92)	0.70 (214)	1,40 (427)	2,10 (841)		
. 100 (2.54)	0.30 (92)	0.70 (214)	1.40 (427)	2.10 (641)		
104 (2.04)	0.30 (92)	0,80 (244)	1.60 (488)	2,40 (732)		
,100 (2.77)	0.30 (92)	0.50 (244)	1.60 (498)	2.40 (732)		
0.113 (2.87)	0.30 (92)	0.90 (244)	1.60 (488)	2.40 (732)		
120 (3.05)	0.30 (92)	0.85 (259)	1,70 (519)	2.58 (778)		
.125 (3.18)	0.90 (92)	D.85 (259)	1.70 (519)	2.55 (778)		
,130 (3.30)	0.30 (92)	0.85 (259)	1,70 (519)	2.55 (776)		
.143 (3.65)	0.40 (122)	0.90 (275)	1.80 (549)	2.70 (824)		
145 (3.68)	0.40 (122)	0.90 (276)	1.80 (549)	2.70 (824)		
.150 (3.81)	0.40 (122)	0.90 (275)	1.80 (549)	2.70 (824)		
.181 (4/09)	0.40 (122)	0.90 (275)	1.80 (549)	2.70 (824)		
. 165 (4.19)	0.40 (122)	0.90 (275)	1.80 (549)	2.70 (824)		
177 (4.50)	0.40 (122)	0.90 (275)	1.60 (549)	2.70 (894)		
.170 (4.55)	0.40 (122)	0.90 (275)	1.80 (649)	2.70 (824)		
188 (4.79)	0.40 (122)	1.00 (305)	2.00 (610)	9.00 (915)		
200 (5.06)	0,40 (122)	1.00 (205)	2.00 (610)	3.00 (915)		
.207 (5.26)	0.40 (122)	1.00 (305)	2.00 (610)	3.00 (913)		

Afor intermediate sizes of wire in the strand, the weight designations are the same as for the next finer size shown in this table.

"Type 1 coating applies to "common" grade of strand only.

Citas A, B, and C coatings apply to all grades of strand.

the individual wires of the strand. The mandrel diameter for Utilities, High-Strength, and Extra-High Strength Grade strand, shall be equal to three times the nominal diameter of the individual wires of the strand.

#### 16. Finish

16.1 The zinc-coated wire shall be free of imperfections not consistent with good commercial practice. The coating shall be continuous and reasonably uniform.

#### 17. Inspection

17.1 The manufacturer shall afford the inspector representing the purchaser all reasonable facilities to satisfy him that the material is being furnished in accordance with this specification. All tests and inspection shall be made at the place of manufacturer prior to shipment, unless otherwise specified, and shall be so conducted as not to interfere unnecessarily with the operation of the works.

#### 18. Rejection

18.1 If the wire or strand fails in the first test to meet any requirement of this specification, two additional tests shall be made on samples of wire or strand from the same coil or reel. If failure occurs in either of these tests, the lot of wire or strand shall be rejected.

#### 19. Packaging and Marking

19.1 Wire strand shall be furnished in standard lengths (see 19.1.1) and in compact coils or on reels (see 19.1.2) as specified by the purchaser; otherwise, lengths shall be as

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agreed upon at the time of purchase. Only one length of strand shall be furnished in each coil or on each recl. Lengths of strand may vary between the standard (nominal) length and 10 % over the standard (nominal) length, unless otherwise specified by the purchaser.

19.1.1 Standard lengths of strand are as follows; 250, 500, 1000, 2500, and 5000 ft [76, 152, 305, 760, and 1520 m].

19.1.2 Standard practice is to furnish all strand  $\frac{7}{6}$  in. [11.11 norm] and over in diameter on reels in lengths of 1000 ft [305 m] and over. Strand lengths of less than 1000 ft are regularly furnished in coils.

19.2 Each coil or reel shall have a strong weather-resistant tag securely fastened to it showing the length, nominal diameter, number of wires, grade of the strand, type, or class of coating, ASTM designation A 855 or A 855M, and the name or mark of the manufacturer. If additional information is required on the tag, it shall be so specified at the time of purchase.

#### 20. Keywords

20.1 steel-wire strand; wire; zinc-5 % aluminummischmetal alloy coated steel wire strand

The American Society for Testing and Materials taken no position respecting the validity of any patent rights asserted in connection with any item mentioned in this atombers, Users of this standard are expressly advised inst determination of the validity of any such patent rights, and the risk of infringement of such rights, are entirely their own responsibility.

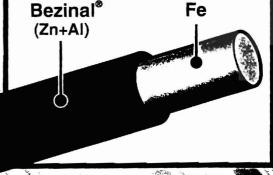
This standard in subject to revision of any time by the maponsible technical committee and must be roviewed every five years and if not revised, either responsed or withdrawn, Your comments are invited wher for newsion of this standard or for additional standards and should be addressed to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may alternal. If you is all start your comments have not meeting a fair heading you should make your views known to the ASTM Committee on Standards, 100 Barr Harbor Crive, West Conscionate, RA 19438. **BEKAERT** Corporation has been able to utilize its 140 years of coating and galvanizing experience in order to create a product which exceeds galvanized Class C coating corrosion requirements. This has been verified in independent tests undertaken by various laboratories, including "BELLCORE". In addition to lab results, **BEKAERT** conducted several field tests throughout the USA.

E.

**BEZINAL®** (BEkaer ZINc ALuminum) is a 95% Zinc + 5% Aluminum (+Mischmetal) eutectic alloy that exhibits remarkable coating corrosion resistance and adhesion ("formability"). The product provides the exceptional corrosion resistant properties by the combination of the passivation corrosion characteristics present with aluminum together with the sacrificial protection offered by the zin content of the alloy.

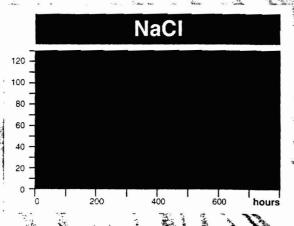
BEKAERT ensures that all of the exceptional properties offered by Bezinal® are guaranteed by strict compliance with the ASTM B750 (Galfan) standard which specifies the quantities and limits for the various elements present in the coating. Compliance with this standard ensures a complete homogeneous mix between the aluminum and zinc elements.

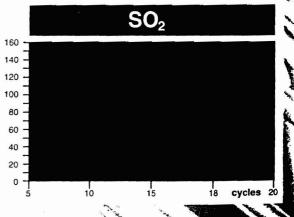




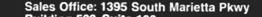
Furthermore, **BEKAERT** has undertaken years of research relating to the application of the coating, separating the product from many who do not have such technology.

The Zinc-Iron-Aluminum alloy layer formed between the Bezinal® coating and the steel substrate is exceptionally ductile and corrosion resistant, leading to exceptional coating adhesion and corrosion resistant properties which are not compromised during subsequent bending and forming operations.





When comparing the corrosion properties of Bezinal® with galvanized (zinc coated) pronumerous accelerated corrosion tests (for example: salt spray to ASTM B117), together wu extended coastal field trials, have indicated that Bezinal® outperforms galvanized product b) at least 3 to 1 (for the same coating weight formany applications.

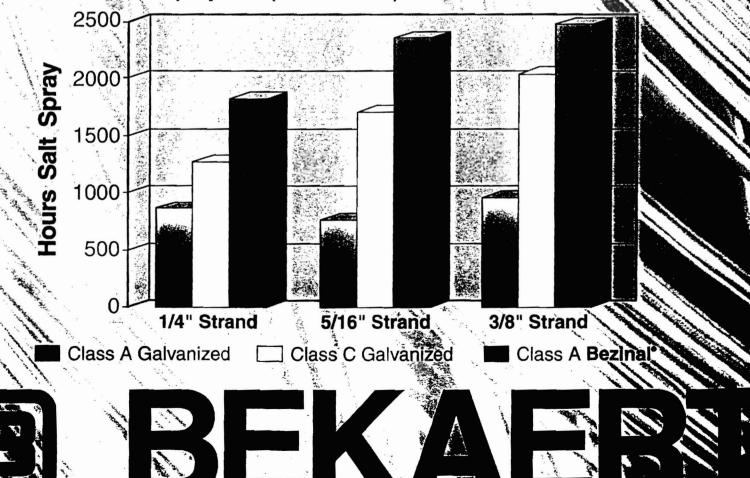


1-800-241-4126

# Gulfport Mississippi – 4 Years Exp

# **Bezinal**<sup>®</sup>

Corrosion comparison between galvanized and Bezinalized Stra (Results confirmed in independent tests by BELLCORE) Salt Spray Test (ASTM B 117)/ Hours to 5% Red Rust



NO.740 D02

Ø 001



FENCECENTER

01/10/2004

01/16/04

13:49

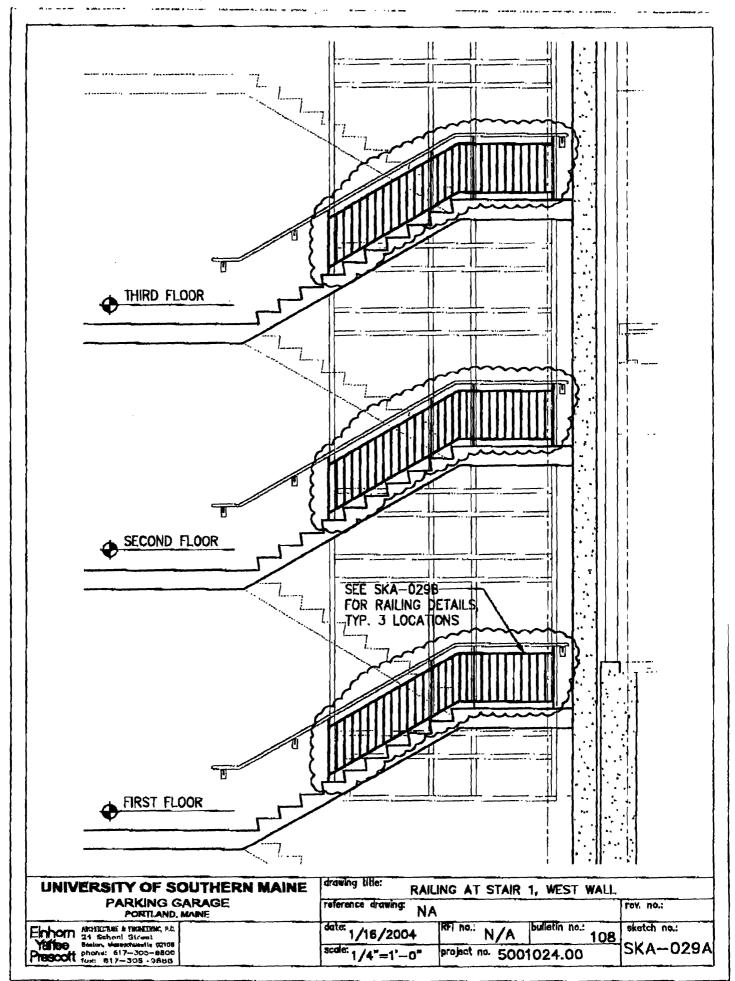
10:29

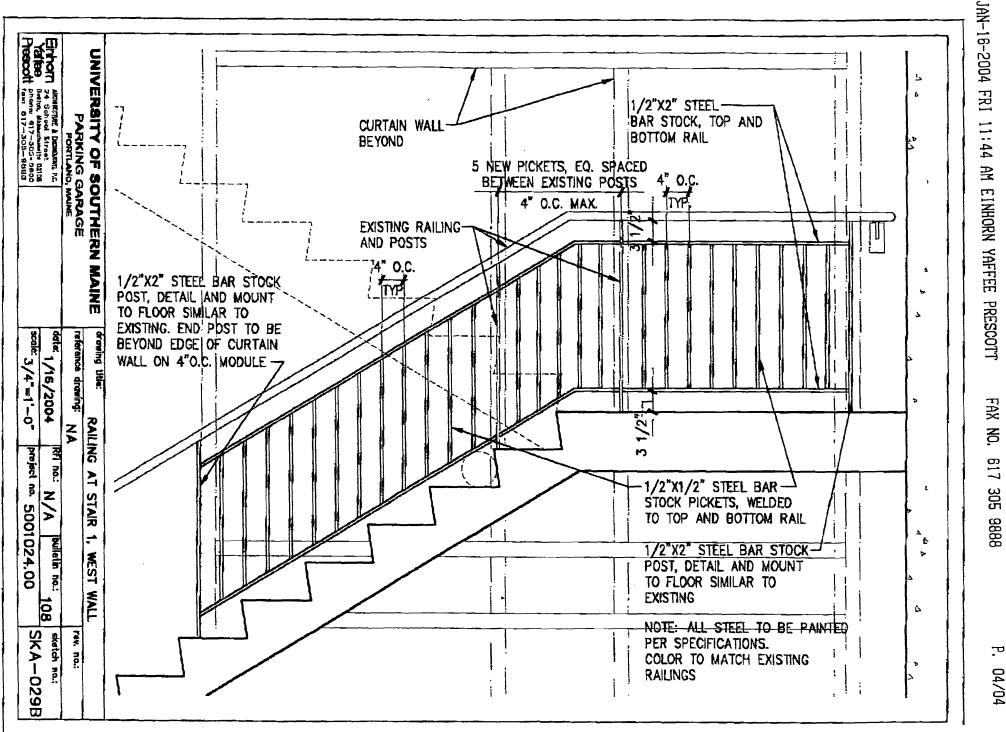
8773263623

**3**8773263623

**LifeGuard**<sup>TM</sup>

Sonco Worldwide Inc. 1-800-457-6626 - PO Box 40, 5000 Windom Road Bladensburg, Maryla 1d 20710





04/04

## R. W. Gillespie & Associates, Inc.

 86 Industrial Park Road, Suite 4, Saco, ME 04072
 207-286-8008

 200 International Drive, Suite 170, Portsmouth, NH 03801
 603-427-0244

## LETTER OF TRANSMITTAL

	Date:	Pı	roject No.:
	Dece	mber 11, 2003	235-856
	Attention:		
	J	John Rasmussen	
	Re:		
University of Southern Maine			
		Concrete Testing	
P. O. Box 9300	1	New Parking Gara	ge - USM
	I	Portland, Maine	
Portland, ME 04104-9300			

Cylinder No. (s)	Age (Days)	
44553	28	
44554	28	
44557	28	
44558	28	

#### Remarks:

Copy To: Carol Potter, Clerk of the Works c/o John Rasmussen Ron Milley, Granger Northern, Inc. Tammy Munson, City of Portland Dept. of Inspections Jeff Smallidge, Walker Parking Consultants Phil Nunley, Dragon Products Co.

Signed: Bertha Dawn

If enclosures are not as noted, kindly notify us at once.

#### **R. W. GILLESPIE & ASSOCIATES, INC.**

Page 1 of 2

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244 CONCRETE TEST/PLACEMENT REPORT

Project Name:	USM Parking Garage	Date Cylinders Cast:	13-Nov-03
Project No:	235-856	Concrete Supplier:	Dragon
Weather Conditions:	Overcast	General Contractor:	Granger
Method of Placement:	Pump	Design Strength:	4,000
Admixtures:	Pozzutec 20 1%, Rheobuild 1000, & Fibermesh	Max Agg. Size:	3/4
Placement Location:	Slab on Grade - Entrance C to D/L1 to L9 except for	or the Middle 18'	
Test Cylinder Location	: C + 15'/25' from Front of Building		

#### Date Report Issued: DEC 1 1 2003

6x12 Cylinders	4	Cast by	Marco C. Stone	Time		
Load No.	3	Slump (in) ASTM C 143	6.75		Batched @	7:40
Ticket No.	4507489	Air (°F)	47		Arrived @	8:00
Truck No.	175	Concrete (°F) ASTM C 1064	74		Total Time	40
Cubic Yds.	10	Air Content (%) ASTM C 231	6.6			

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

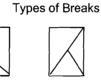
Date received: 14-Nov-03

Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
44552	20-Nov-03	6.004	28.31	7	114,480	4040	4
44553	11-Dec-03	6.000	28.27	28	164,500	5820	4
44554	11-Dec-03	6.000	28.27	28	162,660	5750	4
44555	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39









Cone 1

Cone & Split

Cone & Shear Shear 4 Columnar 5

Load Ticket Truck Cubic Yds Slump Air Temp Conc Temp (%) Air Time Number Number (inches) (°F) (°F) Content (min.) 10.50 1 4507485 180 ---80 ---2 4507488 181 10.50 35 ----------4 4507490 10.00 180 ---49 ---------5 4507491 181 10.00 36 ---------6 10.00 4507492 175 ---------35

Remarks: Total loads = 9

Checked by: \_\_\_\_\_\_George S. Morrell, Supervisor

## **R. W. GILLESPIE & ASSOCIATES, INC.**

Page 2 of 2

#### 86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244 CONCRETE TEST/PLACEMENT REPORT

Project Name:	USM Parking Garage	Date Cylinders Cast:	13-Nov-03
Project No:	235-856	Concrete Supplier:	Dragon
Weather Conditions:	Overcast	General Contractor:	Granger
Method of Placement:	Pump	Design Strength:	4,000
Admixtures:	Pozzutec 20 1%, Rheobuild 1000, & Fibermesh	Max Agg. Size:	3/4
Placement Location:	Slab on Grade - Entrance C to D/L1 to L9 except for	or the Middle 18'	
Test Cylinder Location	: D - 5'/45' from Front		

DEC 1 1 2003 Date Report Issued:

6x12 Cylinders	4	Cast by	Marco C. Stone	Time		
Load No.	7	Slump (in) ASTM C 143	6.0		Batched @	9:25
Ticket No.	4507493	Air (°F)	49		Arrived @	9:40
Truck No.	173	Concrete (°F) ASTM C 1064	72		Total Time	40
Cubic Yds.	10	Air Content (%) ASTM C 231	6.8			

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

Date received: 14-Nov-03

Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
44556	20-Nov-03	6.004	28.31	7	106,740	3770	4
44557	11-Dec-03	6.000	28.27	28	149,380	5280	4
44558	11-Dec-03	6.000	28.27	28	152,800	5405	4
44559	HOLD			HOLD			

\*Concrete compressive strength by ASTM C 39





Types of Breaks



Cone

Cone & Split 2 Cone & Shear 3

Shear 4

Columnar 5

Load	Ticket Number	Truck Number	Cubic Yds	Slump (inches)	Air Temp (°F)	Conc Temp (°F)	(%) Air Content	Time (min.)
8	4507494	180	5.00					28
9	4507496	175	2.50					25

Remarks: Total loads = 9

Checked by: <u>Matthin</u> J. An George S. Morrell, Supervisor

# Southern Maine

Facilities Management 96 Falmouth Street PO Box 9300 Portland, ME 04104 (207) 780-4160 FAX (207) 780-4538 TTY (207) 780-5646

## **Fax Transmittal**

To: Michael Nugent, Inspection Services Manager City of Portland

Date: December 8, 2003

Fax #: 207-874-8716

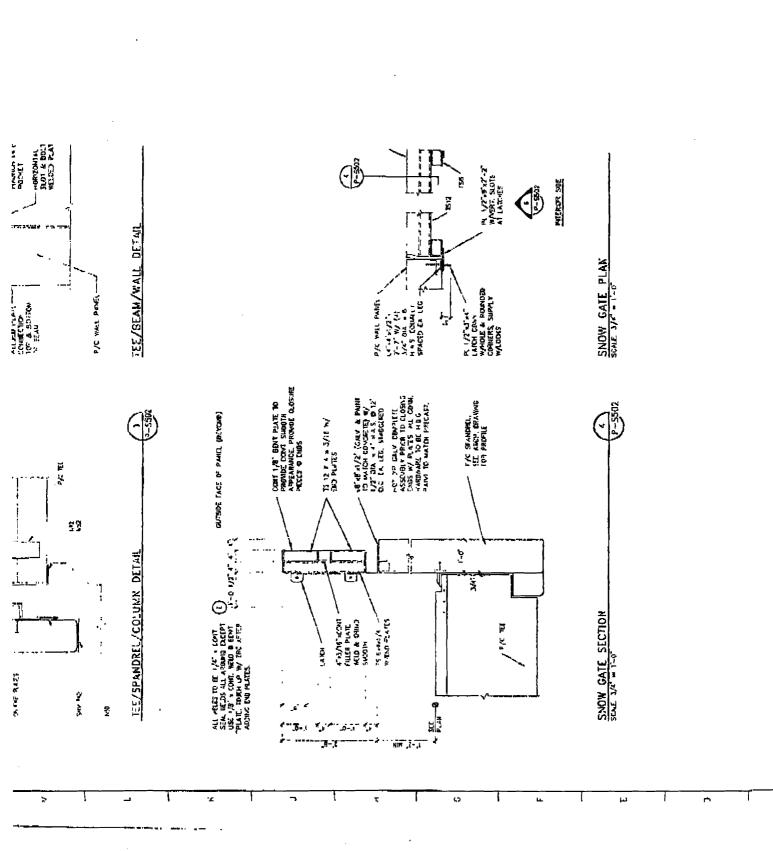
From: John Rasmussen, Construction Engineer USM 207-228-8412

No. of pages including cover: 3

RE: Snow Gate Details

Comments:

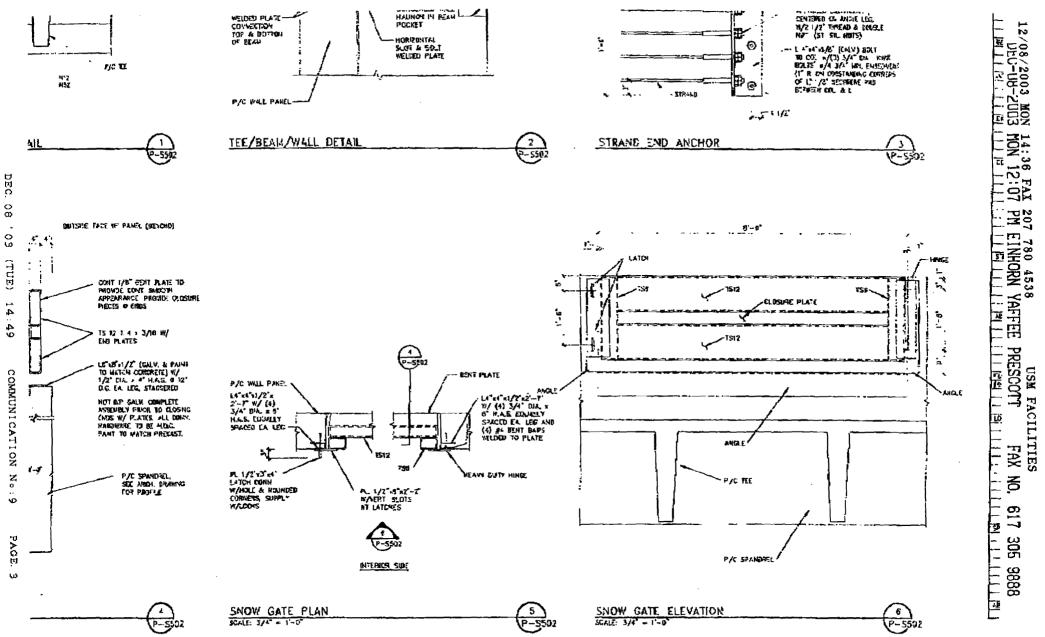
The copies didn't come out well...the gate is basically a solid panel. If you would like to see any changes, please let me know.



Ø 002

P. 02

DEC. 08 '03 (TUE) 14:49 COMMUNICATION No:9 PAGE 2



國 00 3 P. 03

# R. W. Gillespie & Associates, Inc.

 86 Industrial Park Road, Suite 4, Saco, ME 04072
 207-286-8008

 200 International Drive, Suite 170, Portsmouth, NH 03801
 603-427-0244

# LETTER OF TRANSMITTAL

	Date:		Project No.:	
		09 Dec. 03		235-856
	Attention:			
	Jo	ohn Rasmusse	n	
	Re:			
University of Southern Maine				
	C	oncrete Testin	ıg	
P. O. Box 9300	N	ew Parking G	arage - USM	
	Pe	ortland, Main	e	
Portland, ME 04104-9300				

	We are sending	you attached concrete cylinder test results.	
Cylinder No. (s)		Age (Days)	
	43974	56	
Remarks:			

Сору То:
Carol Potter, Clerk of the Works c/o John Rasmussen
Ron Milley, Granger Northern, Inc.
Tammy Munson, City of Portland Dept. of Inspections
Jeff Smallidge, Walker Parking Consultants
Phil Nunley, Dragon Products Co.

Signed: Bertha Dawn

If enclosures are not as noted, kindly notify us at once.

## R. W. GILLESPIE & ASSOCIATES, INC.

Page 1 of 1

#### 86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244 CONCRETE TEST/PLACEMENT REPORT

Project Name:	USM Parking Garage	Date Cylinders Cast:	14-Oct-03
Project No:	235-856	Concrete Supplier:	Dragon
Weather Conditions:	Sunny	General Contractor:	Granger
Method of Placement:	Pump	Design Strength:	5,000
Admixtures:	Rheobuild 1000	Max Agg. Size:	3/4
Placement Location:	Stairwell 1 - Entrance Slab (3rd level, 1st level, grou	und level entrance slab)	
Test Cylinder Location	: Stairwell 1 - in front of stairs (3rd level)		

Date Report Issued:

- ^ ^ C 253

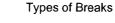
6x12 Cylinders	4	Cast by	Marco C. Stone	Time		
Load No.	1	Slump (in) ASTM C 143	7.25		Batched @	8:45
Ticket No.	3923053	Air (°F)	68		Arrived @	9:00
Truck No.	169	Concrete (°F) ASTM C 1064	64		Total Time	105 mins.
Cubic Yds.	8	Air Content (%) ASTM C 231	7.6			

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1 Date received: 15-Oct-03 Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in²)	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
43971	21-Oct-03	6.000	28.27	7	91,640	3240	4
43972	11-Nov-03	6.000	28.27	28	111,020	3930	4
43973	11-Nov-03	6.000	28.27	28	115,340	4080	4
43974	09-Dec-03	6.005	28.31	56	111,200	3930	4

\*Concrete compressive strength by ASTM C 39





Shear

4



Cone 1 Cone & Split 2 Cone & Shear 3 Columnar 5

Load Ticket Truck Cubic Yds Air Temp Conc Temp Slump (%) Air Time Number Number (inches) (°F) (°F) Content (min.)

Remarks:

<u>rell, Supervisor</u> Checked by:

# R. W. Gillespie & Associates, Inc.

 86 Industrial Park Road, Suite 4, Saco, ME 04072
 207-286-8008

 200 International Drive, Suite 170, Portsmouth, NH 03801
 603-427-0244

# LETTER OF TRANSMITTAL

	Date:	Project No.:
	December	
	Attention:	
	John R	asmussen
	Re:	
University of Southern Maine		
	Concre	te Testing
P. O. Box 9300	New Pa	arking Garage - USM
	Portlan	d, Maine
Portland, ME 04104-9300		

	We are sending you	attached concrete cylinder test results.	
Cylinder No. (s)		Age (Days)	
	44736 44737	28 28	
Remarks:			
Copy To: Corol Pottar, Clark of the	Works of a John Begnussen	Signed: Bertha Dawn	
Ron Milley, Granger Nort	Portland Dept. of Inspections rking Consultants ucts Co.	as noted, kindły notify us at once.	

## R. W. GILLESPIE & ASSOCIATES, INC.

Page 1 of 1

#### 86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244 CONCRETE TEST/PLACEMENT REPORT

Project Name:	USM Parking Garage	Date Cylinders Cast:	19-Nov-03
Project No:	235-856	Concrete Supplier:	Dragon
Weather Conditions:	Overcast, Cool	General Contractor:	Granger
Method of Placement:	Power Buggy	Design Strength:	4,000
Admixtures:	Pozzutec 29%, Fibermesh, Rheobuild 1000	Max Agg. Size:	3/4
Placement Location:	Ground Floor, Middle Portion First up Ramp Slab o	n Grade	
Test Cylinder Location	: 40ft South of North End		

#### Date Report Issued: DEC 1 7 2003

6x12 Cylinders	4	Cast by	Fabian A. Mahar	Time		
Load No.	1	Slump (in) ASTM C 143	5.25		Batched @	6:40
Ticket No.	4507604	Air (°F)	45		Arrived @	6:55
Truck No.	181	Concrete (°F) ASTM C 1064	4 72		Total Time	60 min
Cubic Yds.	10.5	Air Content (%) ASTM C 23	1 6.4			

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1 Date received: 20-Nov-03

Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
44735	26-Nov-03	6.003	28.30	7	83,460	2950	4
44736	17-Dec-03	5.998	28.26	28	132,720	4700	5
44737	17-Dec-03	5.998	28.26	28	144,800	5120	4
44738	HOLD			HOLD			

Types of Breaks

\*Concrete compressive strength by ASTM C 39







4



Cone 1

Cone & Split 2

Cone & Shear Shear 5

Columnar

Ticket Truck Cubic Yds Conc Temp Load Slump Air Temp (%) Air Time Number Number (inches) (°F) (°F) Content (min.) 2 4507607 180 10.50 60 ---------3 4507608 175 10.00 -----------60 4 4507609 181 4.00 40 ----------

3

Remarks:

Checked by:

## R. W. Gillespie & Associates, Inc.

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244

## LETTER OF TRANSMITTAL

	Date:	Project No	).: 
	Decer	mber 22, 2003	235-856
	Attention:		
	Je	ohn Rasmussen	
	Re:		
University of Southern Maine			
	C	Concrete Testing	
P. O. Box 9300	N	New Parking Garage - USN	А
	P	ortland, Maine	
Portland, ME 04104-9300			

ylinder No. (s)		Age (Days)	
	44823	28	
	44824	28	
	44827	28	
	44828	28	

### Remarks:

Copy To:

Carol Potter, Clerk of the Works c/o John Rasmussen Ron Milley, Granger Northern, Inc. Tammy Munson, City of Portland Dept. of Inspections Jeff Smallidge, Walker Parking Consultants Phil Nunley, Dragon Products Co.

Signed: Bertha Dawn

If enclosures are not as noted, kindly notify us at once.

### R. W. GILLESPIE & ASSOCIATES, INC.

Page 1 of 1

#### 86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244 CONCRETE TEST/PLACEMENT REPORT

Project Name:	USM Parking Garage	Date Cylinders Cast:	24-Nov-03
Project No:	235-856	Concrete Supplier:	Dragon
Weather Conditions:	Partly Cloudy	General Contractor:	Granger
Method of Placement:	Buggy	Design Strength:	5,000
Admixtures:	Rheocrete CNI, Rheobuild 1000	Max Agg. Size:	3/4
Placement Location:	3rd and 4th level infills between deck panels		
Test Cylinder Location:	West infill		

Date Report Issued: DEC 2 2 2003

6x12 Cylinders	4	Cast by	Ryan MacEachern	Time		
Load No.	1	Slump (in) ASTM C 143	5.5		Batched @	7:05
Ticket No.	4507682	Air (°F)	38		Arrived @	7:25
Truck No.	181	Concrete (°F) ASTM C 106	64 68		Total Time	140 mins.
Cubic Yds.	10	Air Content (%) ASTM C 2	31 5.3			

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

Date received: 25-Nov-03

Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
44822	01-Dec-03	6.018	28.44	7	130,300	4580	4
44823	22-Dec-03	6.003	28.30	28	152,800	5400	4
44824	22-Dec-03	6.003	28.30	28	153,100	5410	4
44825	HOLD			HOLD			

Types of Breaks

\*Concrete compressive strength by ASTM C 39



Cone







Cone & Split 0

Cone & Shear Shear

4

Columnar 5

Ticket Truck Cubic Yds Air Temp Load Slump Conc Temp (%) Air Time Number Number (inches) (°F) (min.) (°F) Content 2 4507690 180 10.00 6.00 45 --130 --3 4507696 176 10.00 6.00 48 130 ----4 6.50 4507703 173 5.00 46 85 ----

3

#### Remarks:

Load No. 1: 4125 oz. Rheocrete CNI

Load No. 2: 4125 oz. Rheocrete CNI

Load No. 3: 4125 oz. Rheocrete CNI

Load No. 4: 2685 oz. Rheocrete CNI

120 gallons of Rheocrete CNI recorded on tank at plant.

Checked b rell, Supe

All Trucks were over the time limit. Contractor was advised, concrete was placed.

## R. W. GILLESPIE & ASSOCIATES, INC.

Page 1 of 1

86 Industrial Park Road, Suite 4, Saco, ME 04072 207-286-8008 200 International Drive, Suite 170, Portsmouth, NH 03801 603-427-0244 CONCRETE TEST/PLACEMENT REPORT

Project Name:	USM Parking Garage	Date Cylinders Cast:	24-Nov-03
Project No:	235-856	<b>Concrete Supplier:</b>	Dragon
Weather Conditions:	Overcast	General Contractor:	Granger
Method of Placement:	Truck discharge	Design Strength:	4,000
Admixtures:		Max Agg. Size:	3/4
Placement Location:	Median between lanes at lower entrance		
Test Cylinder Location	: Center of placement		

Date Report Issued: USC 2 2 2003

6x12 Cylinders	4	Cast by	Ryan MacEachern	Time		
Load No.	1	Slump (in) ASTM C 143	5		Batched @	1:00
Ticket No.	3923220	Air (°F)	48		Arrived @	1:20
Truck No.	177	Concrete (°F) ASTM C 106	69		Total Time	55mins.
Cubic Yds.	10	Air Content (%) ASTM C 2	31 5.2			

\*Concrete sampled by ASTM C 172

Specimen Storage ASTM C 31: Field cure days: 1

Date received: 25-Nov-03

Condition of Cylinders: Good

Lab No.	Test Date	Avg Dia (in)	Area (in <sup>2</sup> )	Age (Days)	Load (lbs)	Compressive Strength (psi)	Break type
44826	01-Dec-03	6.018	28.44	7	92,120	3240	4
44827	22-Dec-03	6.003	28.30	28	143,900	5085	4
44828	22-Dec-03	6.003	28.30	28	148,520	5250	4
44829	HOLD			HOLD			

Types of Breaks

\*Concrete compressive strength by ASTM C 39



Cone





Cone & Split Cone & Shear 2

Shear

4

Columnar 5

Load Ticket Truck Cubic Yds Slump Air Temp Conc Temp (%) Air Time Number Number (°F) Content (inches) (°F) (min.)

3

Remarks:

Checked by: Morrell, Supervisor

# EYP/Transmittal

To	/	Inspecti	onal Services			
		389 Coi	ngress St., Room	315		
		Portland	<b>i</b> , ME 04101			
Date:		January	7, 2004	We Transmit:		
Project No	<b>D.:</b>	500102	4.00	Attached	🗌 Under Separate C	Cover via
Attention	:	Tammy	Munson	The Following:		
Re:		Weldin	2 Inspection	Drawings	Copy of Letter	Specifications
		Reports		Samples	Shop Drawing	Change Order
				Other:		
Copies	Date		Submittal No.	Description		
1	vari			Wolding inspect	ion reports	
1	van			weiding inspect	ion reports	
Transmitt	ed as c	hecked:				
🗌 For ap	pprova	1	No exception	n taken	For review and c	omment
🗌 For ye	our use	e	Make correc	tions noted	Revise and subm	it
🛛 As rec	queste	d	Rejected		Prints returned at	fter loan to us
Other]						
Remarks:						
T <b>a</b> mmy,						
			e report that was j oon as I receive it		m R. W. Gillespie yest	erday. I will
0.11		0104.0				

Call me at 228 8124 if you have any questions or comments.

Copy to: file

From: Carol Potter

86 Industrial Park Road, Suite 4 Saco. ME 04072 Tel: 207-286-8008	200 International Drive, Suite 170 Portsmouth, NH 03801 Tel: 603-427-0244		LETTER OF	F TRANSMIT	TAL
Fax: 207-286-2882	Fax: 603-430-2041	Date: Attention:	03 Dec. 03	Project No.:	235-856
University of Southern M	laine	Re:	John Rasmussen New Parking Gar	age - USM	
P.O. Box 9300			Portland, Maine		
Portland, ME 04104-930	0			annan art mari tana art dalamatika	Santan -
	Inclosed AttachedUnder sepa			-	
	184 184				
	,				
	gnetic Particle Inspection by Quality	y Assurance Labs	Inc. dated Decem	nber 2, 2003	
for the referenced projec	ı.				
for the referenced projec					
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# Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES • TEL: (207) 799-8911 • FAX: (207) 799-7251 80 PLEASANT AVENUE · SOUTH PORTLAND, MAINE 04106



December 02, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 OAL# 03-544

#### Attn. Robert Gillespie.

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on 11/25/03 and 12/02/03-

Inspected the following welds in the basement-

1. Vertical panel-panel welds between A1-A11 were inspected and found acceptable.

Inspected the following welds on the first floor-

- 1. PSA straps on lines A, 1, 4, 8, and 11 were inspected and found acceptable, except line 8 is missing 1 strap and line 11 has 1 strap that needs extra weld.
- 2. SS OH plate welds on lines 4 and 8 were inspected and found acceptable, except line 4 is missing 1 plate and line 8 is missing 1 plate. Inspected the following welds on the second floor-
- 1. PSA straps on lines A, 1, 4, 8, and 11 were inspected and found acceptable, except line 4 is missing 4 straps.
- 2. SS OH plate welds on lines 4 and 8 were inspected and found acceptable, except line 4 is missing 2 plates. Inspected the following welds on the third floor-
- 1. PSA straps on lines A, 1, 4, 8, and 11 were inspected and found acceptable, except line 1 is missing 2 straps, line 4 is missing 12 straps, and line 8 is missing 6 straps.
- 2. SS OH plate welds on lines 4 and 8 were inspected and found acceptable.

Inspected the following welds on the roof-

1. Inspected the canopy steel above stairways D.7-E-10-11 and A.3-A.5-10-11 and found it to be acceptable.

-1 clip in the basement of D.7-E-10-11 stairway is not welded yet.

- Handrail welds in staircase A 3-A 5-10-11 were inspected and seem to be acceptable.



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FAX: (207) 799-7251

- Handrail welds in staircase D.7-E-10-11 have not been assembled yet. -
- Handrail welds in staircase A-A.4-1-2 were inspected and found to have some welds missing and some mis-aligned plates.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely

CWI# 97100861

86 Industrial Park Road, Suite 4 Saco, ME 04072 Tel: 207-286-8008	200 International Drive, Suite 170 Portsmouth, NH 03801 Tel: 603-427-0244		LETTER OF	TRANSMIT	TAL
Fax: 207-286-2882	Fax: 603-430-2041	Date:	<b>•</b> • • • • • • • • • • • • • • • • • •	Project No.:	
		Attention:	21 Nov. 03		235-856
		Re:	John Rasmussen		
University of Southern M	aine	KC.	New Parking Gara Portland, Maine	age - USM	
P.O. Box 9300	5 Alan (a) (6 63 <del>6 6 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </del>				
Portland, ME 04104-9300	)				
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for the referenced projec	agnetic Particle Inspection by Qual t.		und river	iber 10 & 20, 20	
These are transmitted:	As RequestedFor Your Use	For Approv	al For Review a	nd Comment	
Remarks:					
			$\sim$	· •	
Copy To: Carol Potter, Clerk of the Wor		Signed:	Carol Ingargiola,	gengela	<u></u>
Ron Milley, Granger Norther, Tammy Munson, City of Portl				$\sim$ $\sim$	

If enclosures are not as noted, kindly notify us at once.



Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES -



November 18, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

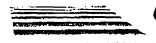
Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

November 17, 2003 Inspected the following welds in the basement-

- 1. Vertical panel-panel welds between A1-A11 have not been welded yet. Inspected the following welds on the first floor-
- 1. PSA straps on lines 1 and 11 were inspected and found acceptable, except line 1 has 4 straps not welded between E-C.
- 2. PSA straps on lines 4, 8, and A are not complete yet. Inspected the following welds on the second floor-
- 1. PSA straps on lines 1 and 11 were inspected and found acceptable, except line 1 has 1 strap not welded between D-C.
- 2. PSA straps on lines 4, 8, and A are not complete yet. Inspected the following welds on the third floor-
- 1. End clips A-B-C-D-E-1-11 have been welded, inspected and found acceptable, except 9E-11E have not been completely welded yet.
- 2. End clips B1-B11 were magnetic particle inspected and found acceptable.
- 3. PSA straps on lines 1,11, and A were inspected and found acceptable, except 1 strap on line 1 between D-C is not welded yet.
- 4. PSA straps on lines 4 and 8 are not complete yet. Inspected the following welds on the roof-
- 1. End clips A-B-C-D-E-1-11 have been inspected and found acceptable.
- 2. End clips B1-B11 were magnetic particle inspected and found acceptable.
- 3. C3-C9 and D3-D9 vertical panel-panel welds were inspected and found acceptable.
- 4. PSA straps on lines 1 and 9 were inspected and found acceptable.
- 5. PSA straps on lines 4, 8, 11, and A are not complete yet.



Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

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-Stairways A.3-A.5-10-11 and D.7-E-10-11 were inspected (all floors) and found acceptable, except 1 clip in the basement of D.7-E-10-11 stairway is not welded yet.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely, Daniel to

David Pratt CWI# 97100861



# Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES COUTH PORTLAND, MAINE 04108 . TFI : (207) 799-8911 . FAX: (207) 799-7251 BO PLEASANT AVENUE

November 20, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

November 20, 2003 Inspected the following welds in the basement-

- 1. Vertical panel-panel welds between A1-A11 have not been welded yet. Inspected the following welds on the first floor-
- 1. PSA straps on lines 1 and 11 were inspected and found acceptable, except line 1 has 4 straps not welded between E-C.
- 2. PSA straps on lines 4, 8, and A are not complete yet. Inspected the following welds on the second floor-
- 1. PSA straps on lines 1 and 11 were inspected and found acceptable, except line 1 has 1 strap not welded between D-C.
- 2. PSA straps on lines 4, 8, and A are not complete yet. Inspected the following welds on the third floor-
- 1. End clips A-B-C-D-E-1-11 have been welded, inspected and found acceptable.
- 2. PSA straps on lines 1, 11, and A were inspected and found acceptable, except 1 strap on line 1 between D-C is not welded yet.
- 3. PSA straps on lines 4 and 8 are not complete yet. Inspected the following welds on the roof-
- 1. End clips A-B-C-D-E-1-11 have been inspected and found acceptable.
- 2. PSA straps on lines 1, 4, 8, 9, and A were inspected and found acceptable.

-Stairways A.3-A.5-10-11 and D.7-E-10-11 were inspected (all floors) and found acceptable, except 1 clip in the basement of D.7-E-10-11 stairway is not welded yet.



# Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

00 PLEASANT AVENUE . SOUTH PORTI AND, MAINE 04108 . TEL: (207) 799-8911 . FAX: (207) 799-7251

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely, David Pratt

CWI# 97100861

# R. W. Gillespie & Associates, Inc.

86 Industrial Park Road, Suite 4     200 International Drive, Suite 170       Saco, ME 04072     Portsmouth, NH 03801       Tel: 207-286-8008     Tel: 603-427-0244	·	LETTER OF	TRANSMITTA	_
Fax:         207-286-2882         Fax:         603-430-2041	Date:	12 Nov 02	Project No.:	225.956
	Attention: Re:	13 Nov. 03 John Rasmussen		235-856
University of Southern Maine	KC.	New Parking Gara	age - USM	
P.O. Box 9300		Portland, Maine		
Portland, ME 04104-9300	n dia kaominina dia kaominina dia mampikambana mandri kaominina dia kaominina dia kaominina dia kaominina dia k			
We are sending you:EnclosedAttachedUnder separate Copy of InvoiceCopy of Documentation/Details fo				
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Report of Visual and Magnetic Particle Inspection by Quality A for the referenced project.	ssurance Labs In	ic. dated Novem	ber 12, 2003	
These are transmitted:As RequestedFor Your Use	For Approval	For Review a	nd Comment	
Remarks:				
Copy To: Carol Potter, Clerk of the Works c/o John Rasmussen Ron Milley, Granger Norther, Inc. Tammy Munson, City of Portland Dept. of Inspections If enclosures are not as no		Carol Ingargiola, <i>i</i>	Dycinguta	



Quality Assurance Labs Inc.

80 FLEASANT AVENUE SOUTH PORTLAND, MAINE 94106 TEL: (207) 799-9911

FAX: (207) 799-7251

November 12, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

November 12, 2003 Inspected the following welds on the first floor-

- 1. End clips A-B-C-D-E-1-11 have been inspected and found acceptable.
- 2. Double-t SS welds A-B-C-D-E-1-11 have been inspected and found acceptable.

Inspected the following welds on the second floor-

- 1. End clips A-B-C-D-E-1-11 have been inspected and found acceptable.
- 2. Double-t SS welds A-B-C-D-E-1-11 have been inspected and found acceptable.

Inspected the following welds on the third floor-

- 1. End clips A-B-C-D-E-1-11 are partially welded at this time.
- 2. Double-t SS welds A-B-C-D-E-1-11 have been inspected and found acceptable.

Inspected the following welds on the roof-

- 1. End clips A-B-C-D-E-1-11 have been inspected and found acceptable, except 1 at A5, 2 at B11, 3 at A.5, 2 at C1, 2 at C11, 2 at D11 and 1 at E9 have not been welded yet.
- 2. Double-t SS welds A-B-C-D-E-1-11 have been inspected and found acceptable.

-PSA straps (all floors) partially welded.

-Stairways A.3-A.5-10-11 and D.7-E-10-11 not completely welded (all floors).

-Basement still has vert. welds to be done.



If I can be of further assistance, Please call me at 207-799-8911.

Sincerely. Daniel n

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David Pratt CWI# 97100861

R. W. Gillesp	ie & Associates, Inc.			
86 Industrial Park Road, Suite 4 Saco, ME 04072	200 International Drive, Suite 170 Portsmouth, NH 03801		LETTER OF TRANSMIT	ΓAL
Tel: 207-286-8008	Tel: 603-427-0244		a na a ma poor a a a	ara su yana m
Fax: 207-286-2882	Fax: 603-430-2041	Date:	Project No.: 12 Nov. 03	235-856
		Attention:	John Rasmussen	
University of Southern M	laine	Re:	New Parking Garage - USM	
			Portland, Maine	
P.O. Box 9300				
Portland, ME 04104-930	0			1.1.5.5
We are sending you:E	EnclosedAttachedUnder separ	rate cover via	the following items:	
Copy of I			y of Letter Copies of Report	
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	<u></u>	<u>aagaa madada.</u>		
Report of Visual and Mag	gnetic Particle Inspection by Quality	Assurance Labs I	nc. dated November 6, 2003	
for the referenced project	t.			
These are transmitted:	As RequestedFor Your Use	For Approval	For Review and Comment	
Remarks:				
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Copy To:		Signed:	anok loganger a	

Carol Potter, Clerk of the Works c/o John Rasmussen Ron Milley, Granger Norther, Inc. Tammy Munson, City of Portland Dept. of Inspections

Signed:	$\left( \right)$	anol (	logo	mila
		Carol Inga	rgiola, A	0

If enclosures are not as noted, kindly notify us at once.

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# Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES 80 PLEASANT AVENUE • SOUTH PORTLAND, MAINE 04106 • TEL; (207) 799-8811 • FAX: (207) 799-7251

November 06, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 OAL# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

November 6,2003 Inspected the following welds on the second floor-

- 1. End clips A-B-C-1-10 about 80% welded and found acceptable. Inspected the following welds on the third floor-
- 1. End clips A-B-C-1-10 about 60% welded and found acceptable. Inspected the following welds on the root-
- 1. End clips A-B-C-1-10 about 50% welded and found acceptable.
- Inspected sporadic connections E-D-C-9-10 and stairway E-D.7-10-11 (all floors) that have been welded to date. I will give a detailed report on these as lines are completed.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely;

**David Pratt** CWI# 97100861

# R. W. Gillespie & Associates, Inc.

86 Industrial Park Road, Suite 4     200 International Drive, Suite 170       Saco, ME 04072     Portsmouth, NH 03801       Tel: 207-286-8008     Tel: 603-427-0244	LETTER OF TRANSMITTAL			
Fax: 207-286-2882 Fax: 603-430-2041	Date:	02 Nov. 02	Project No.:	225.956
	Attention:	03 Nov. 03		235-856
	Re:	John Rasmussen		
University of Southern Maine	KC.	New Parking Gar	age - USM	
		Portland, Maine		
P.O. Box 9300				
Portland, ME 04104-9300				
We are sending you:EnclosedAttachedUnder separate	e cover via	the follo	owing items:	
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		<u> </u>	<u></u>	and strategy and a second strategy of a second
Reports of Visual and Magnetic Particle Inspection by Quality	Assurance Lab	s Inc. dated Octob	er 24 and 28 2003	
for the referenced project.	Assurance Laux	s me. dated Octob	CI 24 and 28, 2003	
x				
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Copy To: Carol Potter, Clerk of the Works c/o John Rasmussen	Signed:	Carol Ingargiola,	AA CHIGUR	wen
Ron Milley, Granger Norther, Inc.			U	J
Tammy Munson, City of Portland Dept. of Inspections If enclosures are not as n	oted, kindly notify us a	at once.		



Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

FAX: (207) 789-7251

October 24, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

October 20, 2003 Inspected the following welds on the first floor-

- 1. Double-t SS welds A-B-1-10 were inspected and found acceptable.
- 2. Double-t SS welds B-C-1-10 were inspected and found acceptable.
- 3. End clips C1-C8 were inspected and found acceptable. Inspected the following welds on the second floor-
- 1. Double-t SS welds A-B-1-10 were inspected and found acceptable, except line 5 is not welded yet.
- 2. Double-t SS welds B-C-1-10 were inspected and found acceptable. Inspected the following welds on the third floor-
- 1. Double-t SS welds A-B-1-10 were inspected and found acceptable, except line 5 is not welded yet.
- 2. Double-t SS welds B-C-1-10 were inspected and found acceptable, except line 9 is not welded yet.
- Inspected any other end clips that have been welded to date. I will give a detailed report on these as lines are completed.

October 21, 2003 No inspection needed.

October 22, 2003 Inspected the following welds on the first fluor-

- 1. End clips A1-A10, B1-B10, and C1-C10 were inspected and found acceptable, except 2 clips at B10 are not welded yet. Inspected the following welds on the second floor-
- 1. Double-t SS welds A-B-1-10 were inspected and found acceptable.
- 2. End clips A, B, and C lines partially welded. Inspected the following welds on the third floor-
- 1. Double-t SS welds A-B-C-1-10 have been inspected and found acceptable.



- 2. End clips A, B, and C lines partially welded Inspected the following welds on the roof-
- 1. Double-t SS welds not welded yet.
- 2. Few end clip welds done on A, B and C lines.

October 23, 2003 No inspection needed. October 24, 2003 No inspection needed.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely,

David Pratt CWI# 97100861



Quality Assurance Labs Inc.

80 PLEASANT AVENUE • SOUTH PORTLAND, MAINE 04100 • TEL: (207) 799-8911 •



FAX: (207) 708-7251

October 28, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAI.# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

October 28, 2003 Inspected the following welds on the first floor-

1. Column clips welds C22 - C25, D22 - D25, D.7, 10 - D.7, 11 were inspected and found acceptable.

Inspected the following welds on the second floor-

1. Double-t SS welds A-B- line 5 found acceptable

Inspected the following welds on the third floor-

- 1. Double-t SS welds A-B- line 5 found acceptable
- 2. Column clips welds C22 C25, D22 D25, were inspected and found acceptable.

Inspected the following welds on the roof-

1. Double-t to shear wall welds -B - C area 4 -10 only some done and were inspected and painted to show acceptable,

They asked me to come back around 2:00 PM to check on some welding that needed inspection for a pour on 10/30/2003.

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- Inspected any other end clips that have been welded to date. I will give a detailed report on these as lines are completed.

If I can be of further assistance, Please call mc at 207-799-8911.

Sincerely,

Gary E. Parechanian CWI# 96100681 Jacy E Walkanian

R. W. Gillesnie	& Associates, Inc.		PAF	
86 Industrial Park Road, Suite 4	200 International Drive, Suite 170		LETTER OF TRANSMITTAL	,
Saco, ME 04072 Tel: 207-286-8008	Portsmouth, NH 03801 Tel: 603-427-0244			
Fax: 207-286-2882	Fax: 603-430-2041	Date:	Project No.:	
		Attention:	20 Oct. 03	235-856
			John Rasmussen	
University of Southern Mai	ne	Re:	New Parking Garage - USM	
P.O. Box 9300			Portland, Maine	
Portland, ME 04104-9300				
We are sending you:Enc	losedAttachedUnder sepa	urate cover via	the following items:	
Copy of Invo	piceCopy of Documentation/Detai	Is for Invoice C	Copy of Letter Copies of Report	
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Report of Visual and Magne	etic Particle Inspection by Qualit	y Assurance Lab	s Inc. dated October 20, 2003	
for the referenced project,				
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These are transmitted:	_As RequestedFor Your Use	For Approv	al For Review and Comment	
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Carol Potter, Clerk of the Works Ron Miller, Granger Norther, Ind			Carol Ingargiola, AA	
Tammy Munson, City of Portlan	d Dept. of Inspections	or noted blade and		
	It enclosures are not	t as noted, kindly notify u	is at once.	

19/20/2003 00.40 20/135/201	SUHL IY	ADDURANLE	PAGE 101
-Quality- Assurance Laboratopics line.		80 Pleasant Avenue South Portland, Mai Phone: (207) 799-8	
	FAX	_	
DATE: October 20 2003	TRANSMISSION NO.: 566		<b>PAGE 1 OF 16</b>
COMPANY: GILLESPIE R. W.	FROM:	David Pratt	
ATTENTION: GEORGE	SUBJEC	T: USM PARKING GA	RAGE
PHONE: (207) 286-8008		N.	
FAX: (207) 286-2882		OF	1517

PLEASE ADVISE IF TRANSMISSION IS INCOMPLETE. TELEPHONE: (207) 799-8911 FAX: (207) 799-7251

This message is intended only for the use of the individual to whom, or the entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you are neither the intended recipient nor the employee or agent respansible for delivering the message to the intended recipient, you are hereby notified that any discerimination, distribution or copying of this communication is prohibited. If you have recorded this communication in error, please neithy us immediately by telephoning 207-799-0911 and return the original massage to us of the above address. Thank you.



Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

BO PLEASANT AVENUE - SOUTH PORTLAND, MAINE 04106 - TEL: (207) 799-8911 -

FAX: (207) 799-7251

October 17, 2003

Gillespic, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie, This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

October 11, 2003 Started to witness repairs to double tees DT-10D and DT-33A (see attached paperwork).

October 12, 2003 Witnessed repairs to double tees DT-10D and DT-33A per attached paperwork submitted by Strescon and Walker. The repairs were inspected and found acceptable.

Inspected the following welds on the first floor-

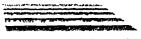
1. End clips B1-B9 were visually and magnetic particle inspected and found acceptable.

October 13, 2003 No inspection needed. October 14, 2003 No inspection needed.

October 15, 2003 Inspected end clips welded sporadically throughout first, second and third floors. I will give a detailed report as areas are completed.

Also inspected all connections that have been welded so far in the stairway A.3-A.5-10-11 on all levels.

Inspected steel framing on the roof level and above the stairway and elevator shaft. The bolt holes did not line up on many connections, so they were welded instead of bolted. There are not any details for these connections.



Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

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If I can be of further assistance, Please call me at 207-799-8911.

Sincerely,

David Pratt CWI# 97100861

PAGE 1

OCT-10-2003 09:46 WHLKER FHRM1190

### TELEPHONE CONVERSATION RECORD



PAAKING CONSULIANIS

Walter Parking Consultants 20 Pork Plaza, Sulle 1111 Boston, MA 02116

October 9, 2003 DATE: Volce: 617,350,5040 Fax: 617.350.5048 John Rasmussen – USM PARTIES: www.walkerparking.com Dave Early - USM Bill Smith - EYP Michael Collard - EYP This information reflects the details of the conversation as Carol Potter - EYP indicated. If there are any Chris Brennan - WPC discrepancies, additions or delations, please respond Jeffrey Smallidge - WPC within 5 days. Michael Collard (617) 305-9888 ORIGINAL TO: Carol Potter FAX # (207) 253-5634 COPIES TO: Jeffrey M. Smallidge BY: University of Southern Maine Parking Structure PROJECT NAME: 16-1450.00 PROJECT NUMBER: Remedial Calculations & Details for Double Tees SUBJECT:

Michael,

The following is a summary of the telephone conversation that was held on October 9, 2003, between the parties noted above regarding Strescon's remedial calculations and details for double tees DT-10D and DT-33A:

- Walker reviewed the calculations and repair details submitted by Strescon for double tees DT-10D and DT-33A and found them to be an acceptable solution, provided the details are not deviated from during Installation and fabrication.
- The implementation of the repairs shall be performed in a "shop" environment, with gualified weld inspectors present during the installation to oversee the welding process and after the installation to inspect the weld assemblies.
- All of the welds shall be tested using the magnetic particle inspection process performed by an Independent testing agency, qualified (as stated in specification section 03410) to conduct the

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### TELEPHONE CONVERSATION RECORD



PAGE 2

testing indicated herein. Particular attention shall be shown to the plug welds specified on the repair details during the installation and inspection process.

• Plates, plate assemblies and all other exterior steel items shall be stainless steel. Welders shall be qualified for the stainless steel welding process per specification section 03410.

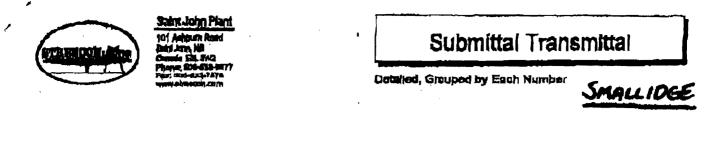
If you should have any questions or concerns regarding the above, please give me a call.

Regards,

Jeffrey M. Smallidge

ч.

1:10-1450.00 unv to maine correspondence lephone conversation record 100903.doc



Projact # 8-8231 University of Southern Maine Perking Garage Strascon Limited Tel; (506) 633-0877 Pax: (508) 832-7578 Entry Ron Milley Mark Walsh Transmitted To: Transmitted By: Granger Northern, Inc. Strescon Limited 84 Middle Street 101 Ashburn Road Ponland, Maine 04101 Saint John, NB Tel: 207-774-9500 E2L3W2 Fax: 207-774-8289 Tol: 908-893-8877 Fax: 805-832-7576 and the first of the state 4.4.1. 41 0038 - 03410 - 0 Remedial calculations and details 10/9/2003 For Approval 4 a ta ta secondara da Alta da ta secondara da Approval Facelmilo 001 Remediat calculations and 1 For Approval detalls . . . . . . . 1.1.1 Walker Parking Consultants Chrie Brennan 1 

Ron,

Please find attached the calculations and ramadial details for double tass DT-100 and DT-33A submitted for approval.

A hard copy will be forwarded via courier. Ploase review and advise if the faxed copy of the calculations is sufficient for review.

Should you have any questions please contact the undersigned.

RE FAXED

Out 2 d Date

**Prolog Manager** 

Printed on: 10/9/2003 MP5\_STRESCON

Signature

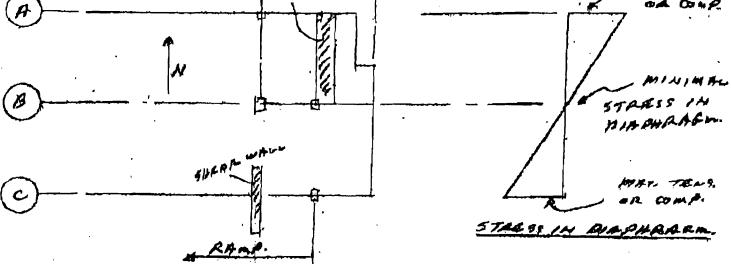
Page 1

10/20/2003 00:40 20//99/201	WUALITY ASSURANCE
PARKING GARAGE	DOUBLE TERS -REPAIR
University of Sauthorn Malna	•
Portland, Maina	
	bruisson,

DT-100 CAST 6" TOO LONG.

NOTES:

1. 6" TO BE CHT FROM SOUTH END. - (GRID B/9) 3. VECTOR CONNECTOR' FLANGE TO FLANGE CONNECTIONS FRENOT MEFFECTED. 3. RIAPHABON CHORD THE AT NORTH EDGE OF DIAPHABON CHORD THE AT NORTH EDGE OF DIAPHABON IS. NOT MEFECTED. 4. BT THE SOUTH END, (GRID B) THEAR IS LITTLE IF ANY FORCE ON THE CHORD THE CONNECTION. THE DIAPHABON IS A FLAT PLATE 3.BAYS CUIDE. FROM GRID A TOC. THE THES AT GRID B' MAR AT THE CENTER OF THE FLAT PLATE BEEN (SEE SLETCH). 8. 01-100 (1) MAX. TENT. BA DONE



THE THES WHEN BE OF PSET 6" (SEE PD 23A). THE BESHLT WILL BE & COMMENTION THAT DEVELOPS A AIMIMUM OF 1-15M COMMENTION THAT DEVELOPS A AIMIMUM OF 1-15M COMMENTION THAT DEVELOPS A 5. THE WELD BE IN THE D. TEE FOR COMMENT. 5. THE WELD BE IN THE D. TEE FOR COMMENT. TO THE BEAM (DETMIN PD 19) WILL BE CHT OFF. THIS WILL BE MERICAR BY PLUG WENDING A NEW SHO & TO THE 20M BARS AT THE TOP OK THE D.T. LEG. (SEE SHEET DY-RS)

BEERT DT-RZ	DEVIEON:
EROFECTI PARKING GARAGE University of Southern Maine Portland, Maine	Selle tels -Repair

6. THE DAP IN THE D. TEL, IN THIS CASE, IS EXTENDED TO PERMIT PLACING PIPING BETWEEN THE D. THE & THE BEAM. AS & BESOLF, THE "ASA" REINFORCENG, AND THE D.T. OF SWEAR REINFORCENC ARE NOT DISTORBED.

7. MOST OF THE DEVELOPMENT OF THE "PS RENFORCEMENT (1-25M) ONL BE LOST WHEN THE STOR R IS COT, THIS CENCE BE REPLACED BY PLUE OF ELDING THE 25M TO RENEW END PLATE,



<u>BROIBCE</u> PAREING OARAGE University of Boutbers Maina Portland, Malao	UUALITY ASSURANCE UL UL PAGE 09 DOUBLE TRES - REPAIR
AHDET: PTR3	REVIELON:
DT-10D	
-7-1	6" REMOURD ABOUE WILL
PLUG WELD 2-20M	5" REMOURD ADD PLACE PLACE PLACE PLACE PLACE CONNEC 10 CONNEC 10 CONNEC 10 CONNEC 10 CONNEC
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	11-4"
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University of Sauthern Maine Portland, Maine			مور میرون می
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ANNEX F

AWS D1.8:199	AWS.	101	.8:	905
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WELDING PROCEDURE SPECIFICATION (WPS) Yes X PREQUALIFIED **QUALIFIED BY TESTING** or PROCEDURE QUALIFICATION RECORDS (PQR) Yes Identification # AE-Sm -PI-1 Revision Q Date 10/13/03 By JR Company Name ALLIDENSTAL ERECTION, INC. Authorized by Jon RasonLL Date 10/17/03 Welding Process(es) 5mAW Semi-Automatic Type—Manual Machine Automatic Supporting PQR No.(s) JOINT DESIGN USED POSITION λu Fillet: ALL Position of Groove: Type: Double Weld Vertical Progression: Up Down Single X Backing: Yes 🕅 No 🗌 ELECTRICAL CHARACTERISTICS **Backing Materlal:** Root Opening 1/4" Root Face Dimension Groove Angle: 45° (224 PRadius (J-U) DA Short-Circuiting Transfer Mode (GMAW) Globular 🗌 Spray 🗍 Back Gouging: Yes K No 🗍 Method Current: AC DCEP DCEN Pulsed THEIMAL OR MECHANICA Other BASE METALS Tungsten Electrode (GTAW) Material Spec. A307 To Type or Grade \_\_\_\_ Size: Thickness: Groove Nin & / Mai hal Fillet Undermitte Type: Diameter (Pipe) 24" 07 4 (Sesence TECHNIQUE Stringer or Weave Bead: STALLAR FILLER METALS Multi-pass or Single Pass (per side) Murri gade AWS Specification AUS A5.9 Number of Flectrodes Sustant AWE Classification ER3091 Electrode Spacing Longitudinal Lateral Arigle SHIELDING Gas No wh Flux North Composition NONL. Contact Tube to Work Distance Electrode-Flux (Class) Flow Rate Peening Wir Allowed Interpass Cleaning: Have en Gas Cup Size NA Person Tool NONK PREHEAT POSTWELD HEAT TREATMENT Temp. LOT QUALIFIED UNDER THE DOOL. Preheat Temp., Min Balow 32" То 70" Interpass Temp., Min 32. Max Time NA 200

				WELDING	S PROCEDURE			
Pass or		Filler I	Metais	, C	Current	÷		
Weld Layer(s)	Process	Class	Diam.	Type & Polarity	Amps or Wire Feed Speed	Volts	Travel Speed	Joint Detalls
1,2	Smaw	ER309L	3/3Z	DUP	75-120	19-24		
			18"		110-160	19-24	hund	
Bolonia	Smaw	<b>878309</b> L	1/8"	DUR	110-160	19-24		the time
			5/32		140 - 220	19-24		Ť

Form F-1

10/20/2003 00.40 20//33/23.	τur	2012000	UD.40	201133120
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WUALITY ASSURANCE

PAGE 12

 F	REQUALIFIED QUALIFIED BY TESTING
	(See Appendix E. ANSI/AWS D1.1, Structural Welding Code)
Company Name: _A	ccidental Anomalies Incorporated
Welding Procedure Spe	ecification No.: AA-SM-P1-1
Revision: 0	Date: 09/13/95 Approved By: John Randell
Welding Process(s);	Shielded Metal Arc Welding (S.M.A.W.)
Type: Manual 🗨	Semi-Automatic 🗆 Machine 🗆 Automatic 🛛
JOINT DESIGN	
Type: Single = [	Double Wold 🗆
Backing: Yes 🛎	
Backing Material:	1 (mild steel) or weld metal or any pregualified steel from D1.1 code
Root Opening: 1/4	" (+1/16"0") Root Face Dimension: 0" ,
Groove Angle: 45	included (22 1/2° each plate) Radius (J-U): NA
Backgouging: Yes I	🕻 (if required) No 🗆
Method: Thermal or	mechanical means.
BASEMETALS	
Material Specification:	A 36 to A 36 or any prequalified steel from 01.1 code
Type or Grade:	
Thickness: Groove	Min.: 1/8" . Max.: Unlimited Fillet Unlimited
Diameter (Pipe): 24	" diameter and greater.
FILLER METALS	
AWS Specification:	AWS A5.1
AWS Classification:	E7018, (F No.: 4 and lower)
SHIELDING GAS	·
Flux: None Gas;	None Flow Rate: NA Gas Cup Size: NA
Electrode-Flux (Class):	None Composition: None Composition
· · ·	
	Page 1 of 3
	· · · · · · · · · · · · · · · · · · ·

## WELDING PROCEDURE SPECIFICATION (WPS) AA SM-P1-1 WPS No .: PREHEAT When the base metal temperature is below 32°F, the base metal Preheat Temperature: Min .: shall be preheated to at least 70°F and maintained during welding. 600° F Max.: 32°F unless... see above. Interpass Temperature: Min.: POSITION Fillet: All All Position of Groove: Down 🗆 Vertical Progression: Up 📕 ELECTRICAL CHARACTERISTICS Reverse Polarity: **Direct Current** Current: TECHNIQUE Stringer beads (max. bead width 2 1/2 X core diameter of electrode) Stringer or Weave Bead: Multipass (no single pass over 1/2" in deposited Multipass or Single Pass (per side): thickness) Number of Electrodes: Single Peening: Not allowed Using hand or power wire brush or grinder, clean base metal of rust, mill Interpass Cleaning; scale, etc. for a minimum of 4" from edge of weld joint inside and out. Chip free of slag and wire brush between all passes. POSTWELD HEAT TREATING Temperature: Not qualified under this procedure Time: NA

Page 2 of 3

. .

WPS No.: AA-SM-P1-1

WELDING PROCEDURE

Pass or		Filler	Metale	Cu	riont			Joint Details
Weld Layer(s)	Process	Class	Diam,	Type & Polarity	Amps	Volts	Travel Speed	Joint Designation: A-U2a
1, 2	SMAW	E7018	3/32" ar 1/8"	DCEP	75 - 120 110 - 160	19 - 24 19 - 24		22 1/3° ± 10"
Balance	SMAW	E7018	1/8" or 5/32"	DCEP	110 - 160 140 - 220	19 - 24 19 - 24	Manuai	1/8 <sup>4</sup> то • • • • • • • • • • • • • • • • • •

. . . . .

## **RECORD OF WELDER QUALIFICATION TEST (WPQ)**

WELDER NAME: AMES H		AL SECURITY #: 006-60-6375						
WPS NO: AE-SM-P1-1 REVISIO		:19/13/03						
THE ABOVE WELDER IS QUALIFIED FOR THE FOLLOWING RANGE								
VARIABLE	USED IN QUALIFACTION	QUALIFICATION.						
PROCESS	SMAW	SMAW						
PROCESS TYPE	MANUAL	MANUAL						
BACKING	WITH	WITH						
MATERIAL SPEC.	P1 TO P1	PREQUAL./ANSI-AWS D1.6						
THICKNESS								
GROOVE	3/8~	1/8" thru ¾						
FILLET	NA	ALL						
DIAMETER								
GROOVE	NA	NA						
FILLET	NA	ALL						
FILLER METAL								
SPECIFICATION NO.	A.5.9	See D1.6-3.6						
CLASSIFICATION	ER309L	Sec D1.6-3.6						
F-NUMDER	4	1 thru 4						
DEPOSITED WELD METAL TH								
GROOVE .375 FIL								
POSITION	3G, 4G	ALL						
WELD PROGRESSION	Uphill	Uphill						
ELECTRICAL CHARACTERIST								
CURRENT	DC	DC						
POLARITY	Reverse	Reverse						
	GUIDED BEND RESULTS							

#### ACCIDENTAL ERECTIONS, INCORPORATEED

POSITIONS VT VT BEND WELD TESTED FIT TYPE DEFECTS RESULTS Face PASS No DIFUTS Bend OK OK Vertical 3G Root rass ł OPENNA 63 Dend Face OPKNINGS Bend 31 OK OK Overhead 4G Root 79 SS No DEFECTS Bend

Welding Tests conducted by: Mechanical Tests conducted by: Jon Randall, Accidental Anomalies, Inc.

Jon Randall, Accidental Anomalies, Inc.

DATE: 10/ 13/03

We certify that the statements in this record are correct and that the test welds were prepared, welded and tested in accordance with the requirements of ANSI/AWS D1.6 Structural Welding Code-Steel.

Organization: Accidental Erections, Inc.

Date: 10/13 σ3 Signed

.

# **RECORD OF WELDER QUALIFICATION TEST (WPQ)**

WELDER NAME: Jamas P WPS NO: AA-SM-P1-1 REVISIO THE ABOVE WEL		CIAL SECURITY #: 096-60-6375 IE: 9/1/03 IE FOLLOWING RANGE			
VARIABLE	USED IN QUALIFACTIO	N QUALIFICATION.			
PROCESS	SMAW	SMAW			
PROCESS TYPE	MANUAL	MANUAL			
BACKING	WITH	WITH			
MATERIAL SPEC.	P1 TO P1	PREQUAL /ANSI-AWS D1.1			
THICKNESS					
GROOVE	3/8"	1/8" thru ¾"			
FILLET	NA	ALL			
DIAMETER					
GROOVE	NA	NA			
FILLET	NA	ALL			
FILLER METAL					
SPECIFICATION NO.	A5.1	See D1.1-5.16			
CLASSIFICATION	E7018	See D1.1-5.16			
F NUMBER	1	1 thru 4			
DEPOSITED WELD METAL THICKNESS					
GROOVE .375 FIL					
POSITION	3G, 4G	ALL			
WELD PROGRESSION	Uphill	Uphill			
ELECTRICAL CHARACTERIST					
CURRENT	DC	DC			
POLARITY	Reverse	Reverse			
GUIDED BEND RESULTS					

#### ACCIDENTAL ERECTIONS, INCORPORATEED

POSITIONS TESTED	VT FIT	VT WELD	BEND TYPE	DEFECTS	RESULTS
Vertical	OK	ОК	Face Bend	1- 32 opening	Anss
3G			Root Bend	1 - 16" OPENNE	PASS
			Face Bend	No DEFECTS	Pass
Overhead 4G	OK	ОК	Root Bend	2 - 1/32 openiucs	PASS

Welding Tests conducted by:

Jon Randall, Accidental Anomalies, Inc. Mechanical Tests conducted by: Jon Randall, Accidental Anomalies, Inc.

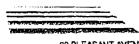
DATE: 1/103

We certify that the statements in this record are correct and that the test welds were prepared, welded and tested in accordance with the requirements of ANSI/AWS D1.1 Structural Welding Code- Steel.

Organization: Accidental Erections, Inc.

<u>C</u>CC Date: 9/1 107 Signed?

R. W. Gillespie & Associa	utes, Inc.		COF	
86 Industrial Park Road, Suite 4 200 International Driv Saco, ME 04072 Portsmouth, NE	ve, Suite 170	LETTER C	DF TRANSMITTA	AL
Tel: 207-286-8008       Tel: 603-4         Fax: 207-286-2882       Fax: 603-4	30-2041 Date: Attenti	16 Oct. 03 on: John Rasmusser	Project No.:	235-856
University of Southern Maine	Re:	New Parking G Portland, Maine		5
P.O. Box 9300				
Portland, ME 04104-9300		an an a with and because an analysis and		
We are sending you:EnclosedAttache	edUnder separate cover v			
Report of Visual and Magnetic Particle Insp for the referenced project.		ce Labs Inc. dated Octob		
Remarks:				
×				
Copy To: Carol Potter, Clerk of the Works c/o John Rasmusse Ron Miller, Granger Norther, Inc. Tammy Munson, City of Portland Dept. of Inspectio		Carol Ingargiola	Ingengola	)



Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

**80 PLEASANT AVENUE** 

- SOUTH PORTLAND, MAINE 01106 TEL: (207) 799-8911

FAX: (207) 799-7251

October 10, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie, This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

October 06, 2003 No inspection needed. October 07, 2003 No inspection needed. October 08, 2003 No inspection needed. October 09, 2003 No inspection needed.

October 10, 2003 Inspected the following welds on the first floor-

- 1. Double-t SS welds A-B-1-10 were inspected and found acceptable
- 2. Double-t SS welds B-C-I-7 were inspected and found acceptable.

Inspected the following welds on the second floor-

- 1. End clips on 4 clips between C6-C9 were found to have undersized welds. The rest were inspected and found acceptable.
- 2. Double-t SS welds A-B-1-8 were inspected and found acceptable, except 5 line is not welded yet.
- 3. Double-t SS welds B-C 1-10 were inspected and found acceptable.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely

CWI# 97100861

86 Industrial Park Road, Suite 4 Saco, ME 04072 Tel: 207-286-8008 Fax: 207-286-2882	ie & Associates, Inc. 200 International Drive, Suite 170 Portsmouth, NH 03801 Tel: 603-427-0244 Fax: 603-430-2041	Date: Attention:	LETTER OF TRANSMITTAL Project No.: 235-856
University of Southern M P.O. Box 9300	Iaine	Re:	John Rasmussen New Parking Garage - USM Portland, Maine
	0 Enclosed Attached Under separation/Details		
Reports of Visual and Ma and October 3, 2003 for	agnetic Particle Inspection by Quality the referenced project.	y Assurance Labs	Inc. dated September 26, 2003
These are transmitted:	As RequestedFor Your Use	For Approval	For Review and Comment
	As RequestedFor Your Use	For Approval	For Review and Comment
	As Requested	For Approval	For Review and Comment
<sup>.</sup> These are transmitted: Remarks:	As Requested  For Your Use	For Approval	For Review and Comment



Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES 80 PLEASANT AVENUE SOUTH PORTLAND, MAINE 04106 . TEL: (207) 799-8911 . FAX: (207) 799-7251

September 26, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

September 22, 2003 No inspection needed.

September 23, 2003 No inspection needed.

September 24, 2003 No inspection needed.

September 25, 2003 Inspected the following welds on the first floor-

- 1. Double-t SS welds C-B-A-1-5 were inspected and found acceptable, except for 5 line not complete and 1 connection at 2A.4 is not welded because the plates are offset.
- 2. End clips C-B-A-1-3 were inspected and found acceptable, except 1 clip at B1 is missing a plate and 1 at 3A.4 is offset.
- 3. End clips D-C-1-4 were inspected and found acceptable. Inspected the following welds on the second floor-
- 1. Double-t SS welds C-B-I-6 were inspected and found acceptable, except 6 line is not welded yet.
- 2. Double-t SS welds B-A-1-6 were inspected and found acceptable, except 5 line is not welded and 1 connection at 3.3A.4 is missing a plate.

Inspected the following welds on the third floor-

- 1. Double-t SS welds C-B-1-6 were inspected and found acceptable, except 6 line is not welded.
- 2. Double-t SS welds B-A-1-5 were inspected and found acceptable, except 5 line is not welded yet and 1 connection on 3 line is missing a clip.

Inspected the following welds on the roof-

1. Double-t SS welds C-B-1-3 were inspected and found acceptable, except 3 line is not welded yet.

September 26, 2003 No inspection needed.



Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

-Inspected all new welds in the stairway all floors, except the elevator shaft because there is no access to this area yet All acceptable welds were marked with a green dot and all rejectable welds were marked with a red dot. The welding is sporadic, so I will give a detailed report on these areas as they are completed.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely,

David Pratt CWI# 97100861



Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES 80 PLEASANT AVENUE · SOUTH PORTLAND, MAINE 04106 · TEL: (207) 799-8911 · FAX: (207) 799-7251

October 3, 2003

Gillespie, R W & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

September 29, 2003 No inspection needed.

September 30, 2003 Inspected the following welds on the first floor-

- 1. Double-t SS welds C-B-1-8 were inspected and found acceptable, except 8 line is not welded yet.
- 2. Double-t SS welds B-A-1-5 were inspected and found acceptable, except 5 line and 1 at 2A.4 is not welded yet.
- 3. End clips C1-C3 and B1-B3 were magnetic particle inspected and found acceptable.

Inspected the following welds on the second floor-

- 1. Double-t SS welds C-B-1-8 were inspected and found acceptable.
- 2. Double-t SS welds B-A-1-8 were inspected and found acceptable, except 5 line and 8 line and 1 clip at 3.3A.4 are not welded vet.
- 3. End clips C1-C3 and B1-B3 were magnetic particle inspected and found acceptable.

Inspected the following welds on the third floor-

- 1. Double-t SS welds C-B-1-6 were inspected and found acceptable, except 6 line is not welded yet.
- 2. Double-t SS welds B-A-1-7 were inspected and found acceptable, except 5 line and 1 connection on 3 line is not welded yet.
- 3. End clips C1-C3 and B1-B3 were magnetic particle inspected and found acceptable.
- \* Inspected all welded PSA straps on all floors-
- 1. Many straps not welded.
- 2. some straps need additional weld. These are marked with a red dot.
- 3. some straps are not setting on the plates enough to get the require length of weld.

BO PLEASANT AVENUE - SOLITH PORTLAND, MAINE 04106 - TEL: (207) 799-8911 - FAX: (207) 799-7251

الدسط

\*Inspected all welded connections in the stairway and the elevator shaft, all floors. I will give a detailed report as these areas get completed.

October 01, 2003 No inspection needed.

2011222

TRV ROV YERO

October 02, 2003 No inspection needed.

October 03, 2003 Inspected the following welds on the second floor-

- 1. Double-t SS welds C-B-1-9 were inspected and found acceptable, except 9 line.
- 2. Double-t SS welds B-A-1-9 were inspected and found acceptable, except 9 line and 5 line are not welded yet.

Inspected the following welds on the third floor-

- 1. Double-t SS welds C-B-1-9 were inspected and found acceptable, except 9 line.
- 2. Double-t SS welds B-A-1-9 were inspected and found acceptable, except 9 line and 5 line have not been welded yet.

\*All welds all floors in the stairway have been welded, inspected and found acceptable.

\*All welds all floor in the elevator shaft have been welded, inspected and found acceptable.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely

David Pratt CWI# 97100861

LAN A STRATE SAME A MARKED IN	200 International Drive, Suite 170 Portsmouth, NH 03801		LETTER OF TRANSMITTAL
'el: 207-286-8008 'ax: 207-286-2882	Tel: 603-427-0244 Fax: 603-430-2041	Date: Attention:	24 Sept. 03     Project No.:       235-856
University of Southern M P.O. Box 9300		Re:	New Parking Garage - USM Portland, Maine
Portland, ME 04104-93	00		
	Enclosed <u> </u>		the following items: opy of Letter Copies of Report
for the referenced proje Also, engineering chang			
These are transmitted:	As RequestedFor Your Use	For Approva	I For Review and Comment
	As RequestedFor Your Use	For Approva	I For Review and Comment
	As RequestedFor Your Use	For Approva	I For Review and Comment
	As RequestedFor Your Use	For Approva	I For Review and Comment
	As RequestedFor Your Use	For Approva	I For Review and Comment
These are transmitted: Remarks:	As RequestedFor Your Use	For Approva	I For Review and Comment
	As RequestedFor Your Use	For Approva	I For Review and Comment

If enclosures are not as noted, kindly notify us at once.



Quality Assurance Labs Inc.

NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES AVENUE • SOUTH PORTLAND, MAINE 04106 • TEL: (207) 799-8911 •

FAX: (207) 799-7251

September 19, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie, This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

September 15, 2003 No inspection needed.

September 16, 2003 No inspection needed.

September 17, 2003 No inspection needed.

September 18, 2003 Inspected the following welds on the first floor-

- 1. Base connection plates A1-A5 inspected and found acceptable.
- 2. End clips E-D-1-9 were inspected and found acceptable, except 2 at E9 and 2 at D9 are not welded yet.
- 3. End clips D-C-1-4 were inspected and found acceptable, except C1-C3 is not welded yet.

-Inspected many PSA straps on all floors, many lines are not yet completed and some connections had to be cut out for elevation changes. I will do a detailed report on these as they are completed.

-Inspected many new welds in newly opened area C-A-1-3 all floors. The welding is sporadic, so 1 will give a detailed report on these areas as they are completed.

September 19, 2003 No inspection needed.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely,

David Pratt CWI# 97100861



Saint John Plant 101 Adharin Road Saint John NB Canada E2L 3W2 Phone: Find-RS9-8877 Fax: SO6-632-7576 www.diracon.com

# Transmittal Cover Sheet

Detailed, Grouped by Each Transmittal Number



	ersity of Southern Maine Parking Gara	ne Project # S Tel: (506) 65		Fax: (506)	632-7676	Strescon Limited
Dal					Ro	forence Number: 0135
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Gran 84 M Porti Tel:	Milley ger Northern, Inc. Iddle Street and. Maine 04101 207-774-3500 207-774-6289	E L	Aark Walst Strescon Li 101 Ashbuj Saint John, 52L3W2 Fel: 506-63 Fax: 506-63	mited n Road NB 3-8877		
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<b></b>			Fac	simile		Fax; 207-774-6289
lani			Fac	simile		Fax; 207-774-6289
<b>1001</b>	Reference	Preprintiso Required penetra	Fac Non in DT	simile 1 - 8/12 × 1	l sheet	Fax; 207-774-6289
001	Reference 1.0	Required penetra	Fac Non in DT	simile 1 - 8/12 × 1		Fax; 207-774-6289
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Ron.

As requested please see the following:

1) As requested Strescon Limited has reviewed and it is acceptable to core the required penetrations as indicated in double tees DT-BA and DT-1E. See attached.

2) As requested Strescon Limited has reviewed and remedial detail PD-10R is acceptable as proposed. See attached.

3) Strescon Limited has reviewed the set of vector connectors which were cast so that they are offset by 18" between double tees DT1G and DT1 on the third floor to the East of grid 4. Assuming that all other connectors in the affected double tee joint are connected, no repair is required.

4) Atlached is revised Detail PD32 replacing the weld plate that was removed when the North West corner of DT15's were saw cut to miss the column at grids A.4 & 1, at levels 2, 3, Roof.

5) Attached please find a revised PD89A detail which applies to SP41 at Grid A & 5. This Spandrel alts on the Cast in place

Page 1



Transmittal Cover Sheet Detailed, Grouped by Each Transmittal Number

wall that Granger provided as-builts for. Please be advised that this panel needs to be erected before SP17 above is placed. A revised leyout drawing PL-12 will be forwarded via courter.

Please raview and advise of any further outstanding items regarding this issue,

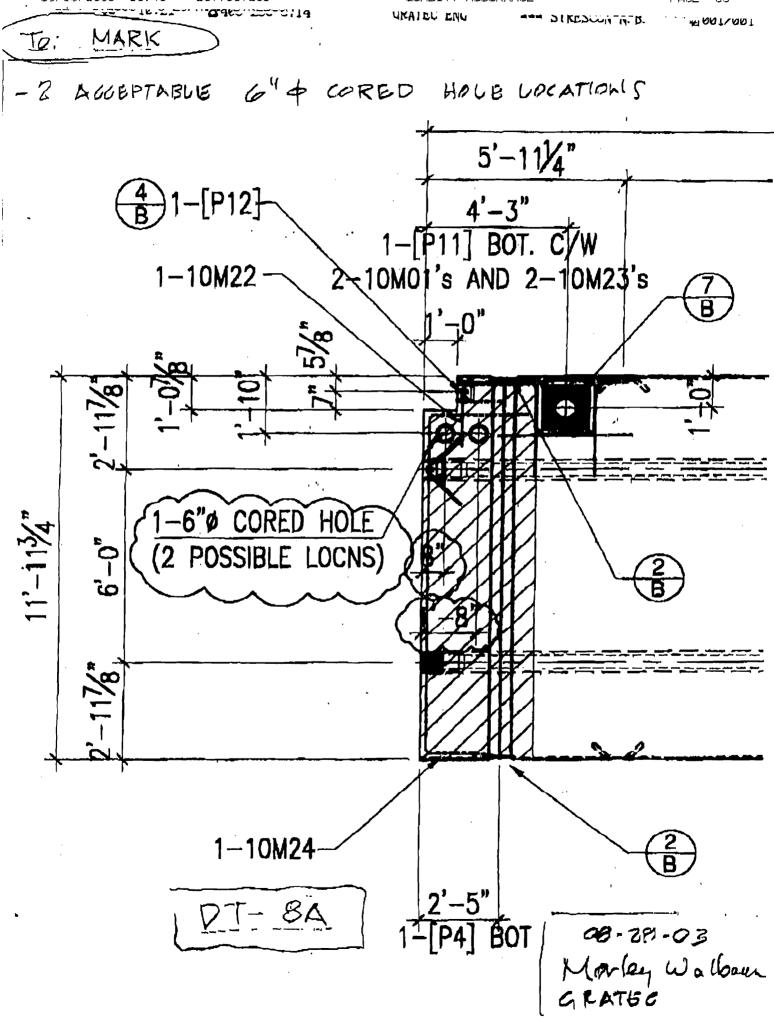
Should you have any questions please call me to discuss.

Signature

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Prolog Manager

Printed on: 8/8/2003 MPS\_STRESCON



00/18/2003 13:48 2077937251 WUALITY ASSURANCE

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To:	STRESCON LimiTED	8/22/03
ATTN:	MARK WAISH	·

NUMBER Y ACCURATE

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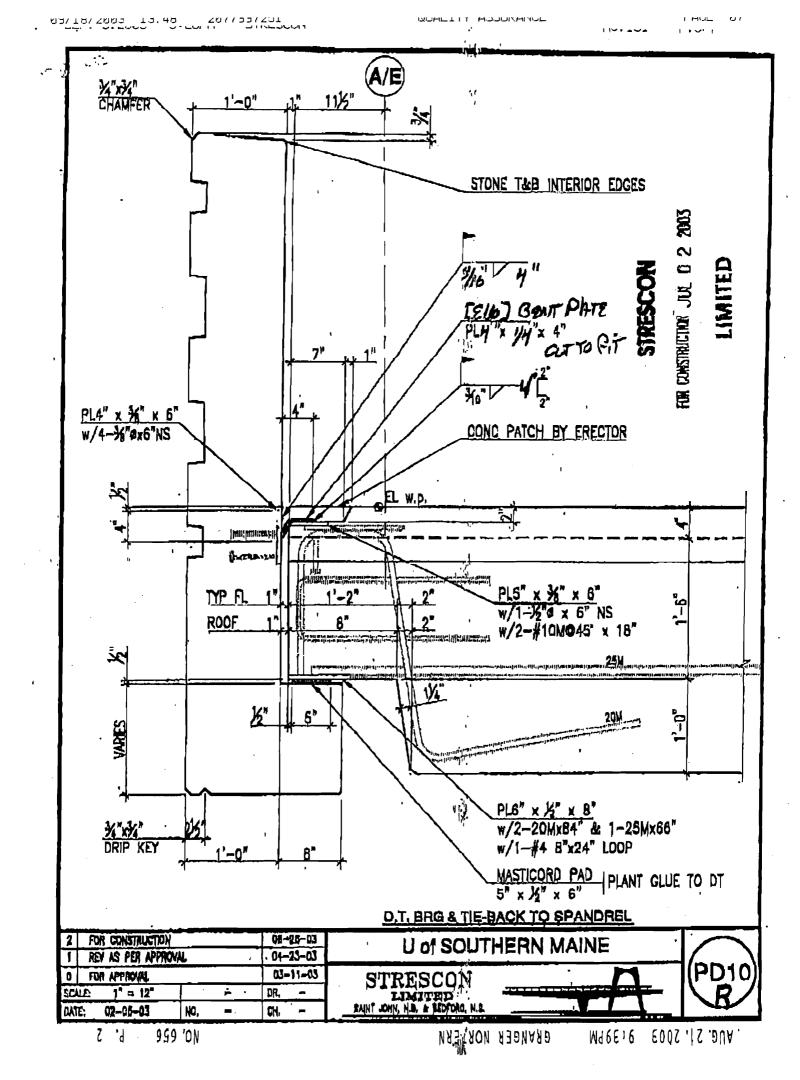
PIERSE REVIEW PD 10R REMEDIAI BEING USED by DAVIS/GRAMISER WHERE IMBED GLEVATIONS MISMATCH.

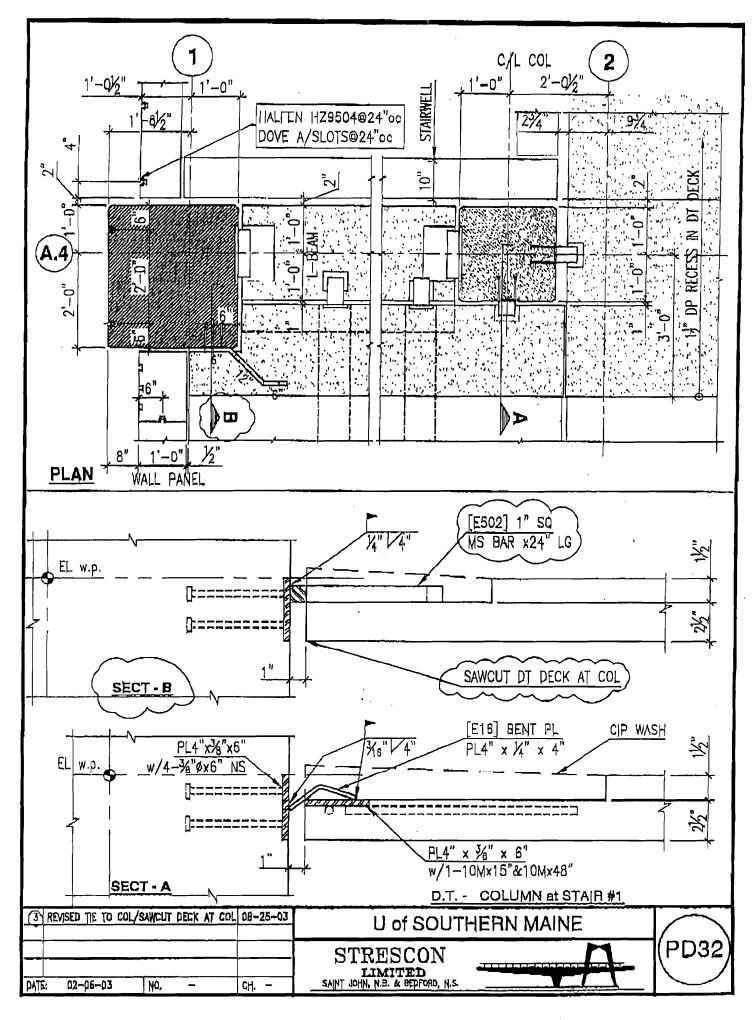
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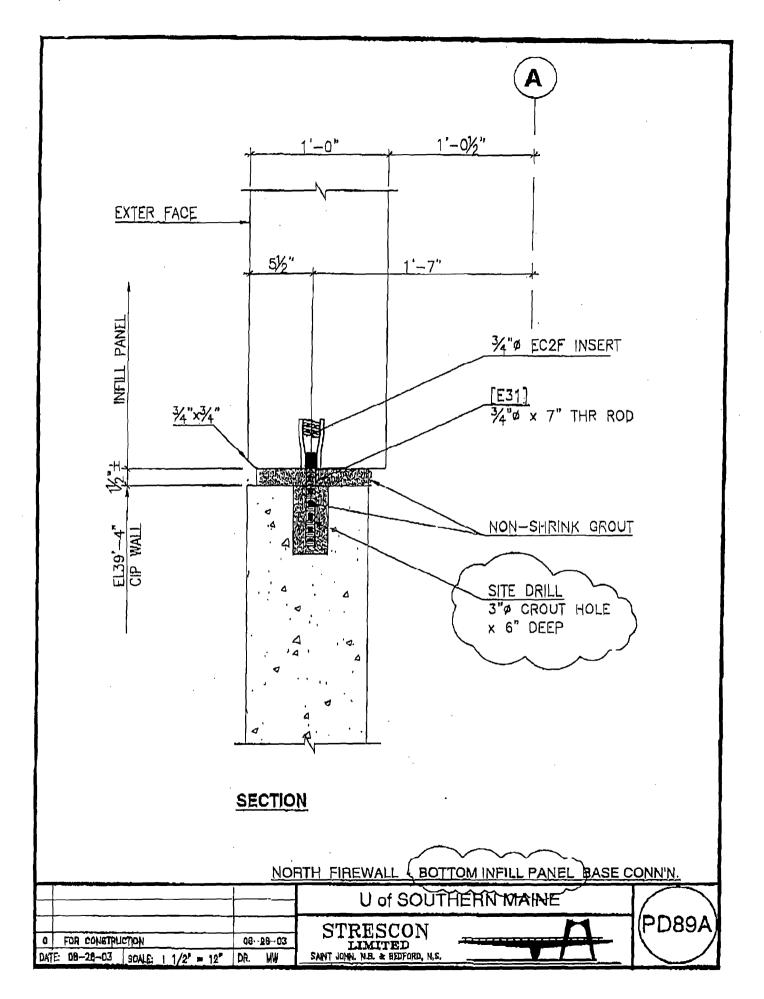


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#### R. W. Gillespie & Associates, Inc.

86 Industrial Park Road, Suite 4	200 International Drive, Suite 170	LE	I'TER OF	TRANSMITTAL
Saco, ME 04072	Portsmouth, NH 03801			
Tel: 207-286-8008	Tel: 603-427-0244			
Fax: 207-286-2882	Fax: 603-430-2041	Date:		Project No.:
		1	6 Sept. 03	235-856
		Attention:		
		John	Rasmussen	
		Re:		
University of Southern M	aine	New	Parking Gara	age - USM
		Portl	and, Maine	
P.O. Box 9300		445 (000000)		
<u></u>				
Portland, ME 04104-9300				
1 offiand, ME 04104-9500	,			
	,			
We are sending you:E	nclosed 🚣 AttachedUnder seg	oarate cover via	the follo	wing items.
Copy of Ir	voice <u>Copy of Documentation/Deta</u>	ails for Invoice Copy of Le	etter Cor	bies of Report
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Reports of Visual and Ma	gnetic Particle Inspection by Qua	lity Assurance I abs Inc. d	ated Septen	nher 5 & 12 2003
for the referenced project		my rissurance Labs me. a	alea Septen	noer 5 & 12, 2005
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These are transmitted:	As Requested	For Your Use	For Approval	For Review and Comment	

Remarks:

Copy To: Carol Potter, Clerk of the Works c/o John Rasmussen Ron Miller, Granger Norther, Inc. Tammy Munson, City of Portland Dept. of Inspections

Carol Ingangola Carol Ingargiola, Agingola Signed:

If enclosures are not as noted, kindly notify us at once.



Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

SOUTH PORTLAND, MAINE 04106 • TEL: (207) 799-8911 • FAX: (207) 799-7261

September 05, 2003

Gillesple, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie, This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

September 1, 2003 Holiday.

September 2, 2003 Inspected the following welds on the first floor-

- 1. Double-t SS welds E-D-1-9 have been inspected and found acceptable. SS welds between D and C lines have not been welded. Inspected the following welds on the second floor-
- 1. Double-t SS welds E-D-1-9 and D-C-1-8 have been inspected and found acceptable, except D8-C8 has not been welded yet. Inspected the following welds on the third floor-
- 1. Double-t SS weldsE-D-1-9 and D-C-1-8 have been inspected and found acceptable, except D8-C8 has not been welded yet.

September 3, 2003 No inspection needed.

September 4, 2003 No inspection needed

September 5, 2003 Inspected the following welds on the third floor-

1. End clips D-C-G-8 (5 total) were cut out and have to be rewelded.

Inspected the following welds on the roof-

1. End clips D-E-1-4 were inspected and found acceptable. Inspected all PSA straps that have been welded on all floors and found them acceptable. I will give a detailed report of these when complete

lines are welded. To this date they have been sporadically welded.

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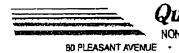


#### Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES

80 PLEASANT AVENUE • SOUTH PORTLAND, MAINE 04106 • TEL: (207) 799-8911 • FAX: (207) 799-7251

Sincerely, Daniel 1 ro

David Pratt CWI# 97100861



Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES SOUTH PORTLAND, MAINE 04105 • TEL: (207) 799-8911 • FAX: (207)

FAX: (207) 799-7261

September 12, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

September 8, 2003 No inspection needed.

September 9, 2003 No inspection needed.

September 10, 2003 No inspection needed.

September 11, 2003 Inspected the following welds on the first floor-

- Double-t SS welds E-D-1-9 were inspected and found acceptable. D-C-1-4 have not been welded yet.
- 2. End clips E-D-1-9 and D-C-1-4 are not welded yet.

Inspected the following welds on the second floor-

- 1. Double-t SS welds E-D-1-9 were inspected and found acceptable and D-C-1-8 were inspected and found acceptable, except line 8 is not welded yet.
- End clips E-D-1-9 were inspected and found acceptable, except 2 at E9 and 2 at D9 have not been welded yet. D-C-3-8 were inspected visually and by magnetic particle and found acceptable.
   Inspected the following welds on the third floor-
- 1. Double-t SS welds E-D-1-9 and D-C-1-8 were inspected and found acceptable, except D8-C8 is not welded yet.
- 2. End clips D-E-1-9 were inspected and found acceptable, except 2 at D9 and 2 at E9 have not been welded yet. D-C-1-8 were inspected and found acceptable.

Inspected the following welds on the roof-

- 1. Double-t SS welds E-D-1-8 and D-C-1-8 have been inspected and found acceptable.
- 2. End clips E-D-1-8 and D-C-1-8 were inspected and found acceptable, except 1 at C8 not welded yet.



September 12, 2003 No inspection needed.

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If I can be of further assistance, Please call me at 207-799-8911.

Sincerely, David I nat

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David Pratt CWI# 97100861

#### R. W. Gillespie & Associates, Inc.

86 Industrial Park Road, Suite 4 2 Saco, ME 04072 Tel: 207-286-8008	200 International Drive, Suite 170 Portsmouth, NH 03801 Tel: 603-427-0244		LETTER OF	TRANSMITTAL	
Fax: 207-286-2882	Fax: 603-430-2041	Date:		Project No.:	
		Attention:	29 Aug. 03		235-856
		Dat	John Rasmussen		
University of Southern Maine		Re:	New Parking Gara Portland, Maine	age - USM	
P.O. Box 9300					
Portland, ME 04104-9300					
	edAttachedUnder separate eCopy of Documentation/Details for				
	1		<b>v</b> .	1 + l + l + l	a kalenda sena dalak
Reports of Visual and Magnet referenced project.	ic Particle Inspection by Quality	Assurance Labs	Inc <u>-dated</u> Augus	it 15, 22, and 29, 2003	3
These are transmitted:A	s RequestedFor Your Use	For Approval	For Review a	nd Comment	
Remarks:					
Copy To: Carol Potter, Clerk of the Works c/o Ron Miller, Granger Norther, Inc.	o John Rasmussen	Signed:	Carol Ingargiola,	Angergola	/
Tammy Munson, City of Portland I	Dept. of Inspections If enclosures are not as n	oted, kindly notify us at	once.		



Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES 80 PLEASANT AVENUE · SOUTH PORTLAND, MAINE 04106 · TEL: (207) 799-8811 · FAX: (207) 799-7251

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PANA 1007	1 700 7004

August 15, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespic,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

August 11, 2003 No inspection needed.

August 12, 2003 Inspected the following welds on the first floor-

- 1. End clips D-C-3-4 and D1-D4 have been inspected and found acceptable. The rest of D-E-1-11 have not been welded yet.
- 2. Double-t SS welds D-C-3-4 and E-D-1-7 were inspected and found acceptable.

Inspected the following welds on the second floor-

- 1. End clips D-C-3-5 were inspected and found acceptable, except 1 clip at C5 is not welded yet.
- 2. End clips D-E-1-9 were inspected and found acceptable, except 2 clips at D9 and 2 clips at E9 have not been welded yet. D-E-7-9 clips were magnetic particle inspected and found acceptable.
- 3. Double-t SS welds D-E-1-9 and C-D-3-8 were inspected and found acceptable, except C8-D8 has not been welded yet.

Inspected the following welds on the third floor-

- 1. End clips C-D-3-6 were inspected and found acceptable, except 1 clip at C6 needs additional weld and 1 clip at C4 is not welded yet.
- 2. End clips D-E-1-9 were inspected and found acceptable, except 1 clip at E1, 1 clip at E3, 2 clips at E9, 2 clips at D9 and 1 clip at D8 have not been welded yet. D-E-7-9 clips were magnetic particle inspected and found acceptable.
- 3. Double-t SS welds C-D -3-7 were inspected and found acceptable, except C7-D7 is not welded yet.
- 4. Double-t SS welds D-E 1-7 were inspected and found acceptable, except D7-E7 is not welded yet.



August 13, 2003 No inspection needed.

August 14, 2003 Inspected the following welds on the roof-

- 1. Panel-panel vertical joint connections C3-C5 and D3-D5(c side) were inspected and found acceptable.
- 2. End clips various along C and D lines.

August 15, 2003 No inspection needed.

Sincerely,

David Pratt CWI# 97100861

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NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES 400 PLEASANT AVENUE - SOUTH PORTLAND, MAINE 04106 • TEL: (207) 799-8911 • FAX: (207) 799-7251

August 22, 2003

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Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespic,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

August 18, 2003 No inspection needed.

August 19, 2003 Inspected the following welds on the first floor-

- 1. End clips D-C-3-4 and D1-D4 have been inspected and found acceptable. The rest of D-E-1-11 have not been welded yet.
- 2. Double-t SS welds D-E-1-7 were inspected and found acceptable.

3. (2) PSA straps between E1-E2 were inspected and found acceptable. Inspected the following welds on the second floor-

- Double-t SS welds D-E-1-9 and C-D-3-8 were inspected and found acceptable, except C8-D8 and 1 at D4 has not been welded yet.
   Inspected the following welds on the roof.
- 1. End clips D1-D9 were magnetic particle and visually inspected and found acceptable.
- 2. Double-t SS welds D-E 1-8 were inspected and found acceptable.

August 20, 2003 No inspection needed.

August 21, 2003 Inspected the following welds on the roof-

- 1. End clips D1-D8, except 1 at D8 and various end clips on E line were inspected and found acceptable.
- 2. Double-t SS welds E-D-1-8 were inspected and found acceptable.

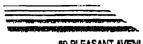
August 22, 2003 no inspection needed.



Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES 60 PLEASANT AVENUE · SOUTH PORTLAND, MAINE 04106 · TEL: (207) 799-8911 · FAX: (207) 799-7251

Sincerely, David Ingto

David Pratt CWI# 97100861



80 PLEASANT AVENUE SOUTH PORTLAND, MAINE 04106 TEL: (207) 799-8911

FAX: (207) 799-7251

August 29, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespic,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

August 25, 2003 No inspection needed.

August 26, 2003 No inspection needed.

August 27, 2003 Inspected the following welds on the first floor-

- Double-t SS welds E-D-1-7 have been inspected and found acceptable. Welds between D and C lines have not been welded yet. Inspected the following welds on the second floor-
- 1. Double-t SS welds E-D-1-9 and D-C-3-8 have been inspected and found acceptable, except 1 at D4 and lines 3 and 8 have not been welded yet.

Inspected the following welds on the third floor-

1. Double-t SS welds E-D-1-9 and D-C-1-6 have been inspected and found acceptable.

Inspected the following weld on the roof-

- 1. Double-t SS welds E-D-1-8 and D-C-1-9 have been inspected and found acceptable.
- 2. End clips C3-C8, D1-D8(c-side) were inspected and found acceptable, except 1 at D8 is not welded yet.
- 3. Panel-panel vertical joint connections D3-D8(E side), C3-C8, and D3-D8(C side) were inspected and found acceptable.

August 28, 2003 No inspection needed.

August 30, 2003 No inspection needed.



**—** .

Sincerely,

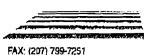
David Pratt CWI# 97100861

36 Industrial Park Road, Suite 4 Saco, ME 04072 Fel: 207-286-8008	200 International Drive, Suite 170 Portsmouth, NH 03801 Tel: 603-427-0244		LETTER OF	<sup>7</sup> TRANSMIT	TAL
Fax: 207-286-2882	Fax: 603-430-2041	Date:		Project No.:	
		Attention:	19 Aug. 03	1	235-856
			John Rasmussen		
University of Southern N	laine	Re:	New Parking Gara Portland, Maine	age - USM	
P.O. Box 9300					
Portland, ME 04104-930	0				
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	gnetic Particle Inspection by Quality	y Assurance Labs	Inc. dated August	8, 2003 for the	
	gnetic Particle Inspection by Quality	y Assurance Labs	Inc. dated August		
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f enclosures are not as noted, kindly notify us at once



Duality Assurance Labs Inc. NON-OGSTRUCTIVE TESTING AND INSPECTION SERVICES 80 PLEASANT AVENUE - SOUTH PORTLAND, MAINE 04106 - TEL: (207) 799-8911 -



August 8, 2003

Gillespic, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespic, This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Mainc Parking Garage on:

August 4, 2003 Inspected the following welds on the second floor-

- 1. Double-t SS welds C-D-3-8 have been inspected and found acceptable, except 1 weld missing at D4 has not been welded yet.
- Inspected the following welds on the third floor-
- 1. Double-t SS welds D-E-1-7 were inspected and found acceptable, except D7-E7.
- August 5, 2003 Inspected end clips and double-t SS welds throughout the second floor from E-D-6-8. These areas are not complete so I marked the acceptable welds with a green dot.

August 6, 2003 No inspection needed.

August 7, 2003 Inspected end clips and double-t SS welds throughout the third floor from E-D-6-8. These areas are not completely welded yet.

August 8, 2003 No inspection needed.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely,

mid las

David Pratt CWT# 97100861

R. W. Gillespie	e & Associ	iates, Inc.				
- 86 Industrial Park Road, Suite 4 Saco, ME 04072	200 International D Portsmouth, N	NH 03801		LETTER OF	F TRANSMITT.	AL
Tel: 207-286-8008 Fax: 207-286-2882	Fax: 603-	3-427-0244 -430-2041	Date: Attention:	05 Aug. 03	Project No.:	235-856
University of Southern Ma P.O. Box 9300	ine		Re:	John Rasmussen New Parking Gar Portland, Maine	age - USM	
Portland, ME 04104-9300						
		hedUnder separa Documentation/Details				
Report of Visual and Magr referenced project.	netic Particle Ins	spection by Quality	Assurance Labs I	Inc. dated August	1, 2003 for the	
These are transmitted:	_As Requested	For Your Use	For Approval	For Review a	and Comment	
Remarks:						

Copy To: Carol Potter, Clerk of the Works c/o John Rasmussen Ron Miller, Granger Norther, Inc. Tammy Munson, City of Portland Dept. of Inspections Signed:

Carol Ingargiola, AA

If enclosures are not as noted, kindly notify us at once.



ROPIFASANT AVENUE • SOUTH PORTLAND, MAINE 04106 • TEL: (207) 798-8911 •

FAX: (207) 799-7251

August 1, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Artn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

July 28, 2003 No inspection needed.

July 29, 2003 Inspected some end clips and double-t ss welds but not any complete areas. Meeting on tapered and beveled end clips because I found some clips that could only be welded on 3 of 4 sides. There was no determination on what will be done at this time.

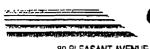
July 30, 2003 No inspection needed. July 31, 2003 No inspection needed.

August 1, 2003 Inspected the following welds on the second floor-

- 1. End clips D-E-1-7 have been inspected and found acceptable.
- 2. Double-t SS welds D-E-1-7 have been inspected and found acceptable, except D7-E7 ahs not been welded yet.

Inspected the following welds on the third floor-

- 1. Double-t SS welds D-E-1-7 were inspected and found acceptable, except D7-E7 and 1 weld near D5 has not been welded yet.
- 2. Double-t SS welds D-C-1-7 were inspected and found acceptable, except 7D-7C is not welded yet.
- 3. End clips D-C-1-6 have been inspected and found acceptable, except 1 clip at C4 is not welded yet.
- 4. (4) PSA straps between 4D-4E were inspected and found acceptable.
- 5. Between D6-D8 there are (4) end clips that could only be welded on 3 of 4 sides because of mis-alignment.
- 6. Between C6-C8 there are (4) end clips that could only be welded on 3 of 4 sides because of mis-alignment.



Quality Assurance Labs Inc. NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES 80 PLEASANT AVENUE · SOUTH PORTLAND, MAINE 04106 · TEL: (207) 799-8811 · FAX: (207) 799-7251

Sincerely,

David Pratt CW1# 97100861

# R. W. Gillespie & Associates, Inc. 86 Industrial Park Road, Suite 4 200 International Drive, Suite 170 LETTER OF TRANSMITTAL Saco, ME 04072 Portsmouth, NH 03801 Ete: 603-427-0244 Fax: 207-286-2882 Fax: 603-430-2041 Date: 28 July 2003

235-856

	Attention: John Rasmussen
	Re:
University of Southern Maine	New Parking Garage - USM
P.O. Box 9300	Portland, Maine
Portland, ME 04104-9300	
We are sending you:EnclosedAttachedUnder separate	cover via the following items
Copy of InvoiceCopy of Documentation/Details for	
Report of Visual and Magnetic Particle Inspection by Quality A referenced project.	ssurance Labs Inc. dated July 25, 2003 for the
These are transmitted:As RequestedFor Your Use	For Approval For Review and Comment
These are transmittedAs Requested1 of 10th 0se	
Remarks:	
Kemarks.	
	signed: Carola Azrapola
Copy To: Carol Potter, Clerk of the Works c/o John Rasmussen	Signed: Carol Ingargiola, AA
Ron Miller, Granger Norther, Inc.	
Tammy Munson, City of Portland Dept. of Inspections If enclosures are not as no	oted, kindly notify us at once.



NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES . TEL (207) 799-8911 . FAX: (207) 799-7251 COUTH PORTLAND, MAINE MIDE 80 PLEASANT AVENUE

July 25, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 OAL# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle Inspection for University of Southern Maine Parking Garage on:

July 21, 2003 Inspected the following welds on the first floor-

1. End clips E3-E4 not welded yet.

Inspected the following welds on the second floor-

- 1. End clips 4C-5C and 4D-5D were inspected and found acceptable, except 1 clip at 5C and 1 clip at 5D not welded yet.
- Inspected the following welds on the third floor-
- 1. (4) clips between E1-E4 still not welded.

July 22, 2003 Inspected the following welds on the second floor-

- 1. End clips 4D-5D and 4E-5E were inspected and found acceptable, except 1 at 5D and 2 at 5E are not welded yet.
- 2. Double-t SS welds D-E-4-5 were inspected and found acceptable, except 1 at 4D is not welded yet.

Inspected the following welds on the third floor-

- 1. (4) PSA straps between D4-E4 were inspected and found acceptable.
- 2. End clips D4-D5 and C4-C5 were inspected and found acceptable, except 4 between C4-C5 and 3 between D4-D5 are not welded yet.
- 3. 50% of double-t SS welds C-D-4-5 were inspected and found acceptable. The rest are not welded yet.

Inspected the following welds on the roof-

1. (4) PSA straps between D4-E4 were inspected and found acceptable.

July 23, 2003 Inspected the following welds on the third floor-

1. End clips D4-D5 and C4-C5 were inspected and found acceptable, except 1 clip at D5, 1 clip at C4 and 1 clip at C5 are not welded yet.



- 2. End clips D4-D5 (other side of wall) and E4-E5 were inspected and found acceptable, except 2 clips between D4-D5 and 1 clip at E5 are not welded yet.
- 3. Double-t SS welds D-C-4-5 were inspected and found acceptable.
- 4. Double-t SS welds D-E-4-5 were inspected and found acceptable.

July 24, 2003 No inspection needed.

July 25, 2003 Inspected the following welds on the second floor-

- 1. End clips 4-5-D-E were magnetic particle and visually inspected and found acceptable, except 1 clip at 5D and 2 clips at 5E have not been welded yet.
- 2. End clips 5-6-D-E were magnetic particle and visually inspected and found acceptable, except 2 clips at 6E and 1 clip at 6D have not been welded yet.

3. Double-t SS welds 4-5-D-E were inspected and found acceptable. Inspected the following welds on the third floor-

- 1 End clips D-C-4-6 were magnetic particle and visually inspected and found acceptable, except 1 clip at 5D, 1 clip at 6D and 1 clip at 6C have not been welded yet.
- 2. Double-t SS welds D-C-4-6 were inspected and found acceptable.
- 3. Double-t SS welds E-D-4-5 were inspected and found acceptable, except 5E-5D has not been welded yet.

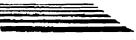
Sincerely

David Pratt CWI# 97100861

## EYP/Transmittal

To	/	389 Coi	ional Services ngress St., Room d, ME 04101	315		
Date:		January	7, 2004	We Transmit:		
Project N	0.:	500102	4.00	Attached 🛛	Under Separate C	Cover via
Attention	:	Tammy	Munson	The Following:		
Re:		Welding	2 Inspection	Drawings	Copy of Letter	Specifications
		Reports		Samples	Shop Drawing	Change Order
				Other:		·····
Copies	Date		Submittal No.	Description		
1	1/6/	04		Welding inspecti	on reports	
				<u>5</u>		
Transmitt	ed as cl	hecked:				
🗌 For ap	pproval	l	No exception	n taken	For review and co	omment
🗌 For ye	our use	;	Make correc	tions noted	Revise and subm	it
🛛 As ree	quested	1	Rejected		Prints returned af	fter loan to us
Other						
Remarks:						
Tammy,						
This is th	e last v	welding i	nspection report.			
Call me a	at 228 8	8124 if y	ou have any ques	tions or comments		
See you i	next W	ednesday	y!			
Copy to: f	ïle			From: Carol Potter	-	

R. W. Gillespie & As	sociates, Inc.	COPY
86 Industrial Park Road, Suite 4 200 Intern Saco, ME 04072 Ports	tional Drive, Suite 170 mouth, NH 03801 Tel: 603-427-0244	LETTER OF TRANSMITTAL
	<i>i</i> ax: 603-430-2041	Date: Project No.: 235-856 Attention:
University of Southern Maine		John Rasmussen         Re:         New Parking Garage - USM         Portland, Maine
P.O. Box 9300		
Portland, ME 04104-9300	<i>i</i>	
20 S		ate cover via the following items:
	an an all any and a Marca second and an State of	ANTARA ANTARA
Report of Visual and Magnetic Partie for the referenced project.	cle Inspection by Quality	Assurance Labs Inc. dated Dec. 4 and 24, 2003,
	/	
These are transmitted:As Reque	sted <u>For Your Use</u>	For Approval For Review and Comment
Remarks:		
Copy To: Carol Potter, Clerk of the Works c/o John R Ron Milley, Granger Norther, Inc.	asmussen	Signed: Cool Age mode Carol Ingargiola, Age
Tammy Munson, City of Portland Dept. of	3	s noted, kindly notify us at once.



NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES 80 PLEASANT AVENUE · SOUTH PORTLAND, MAINE 04106 · TEL: (207) 799-0911 · FAX: (207) 799-7251



 $\gamma \gamma \gamma$ 

December 24, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie, This letter will serve as my report for visual and magnetic particle inspection for University of Southern Maine Parking Garage on 12/24/2003.

Inspected the following welds in the basement-

- 1. SS OH plate welds on lines 4, C and 8, C were inspected and found acceptable.
- 2. PSA Line 11, Between A & B were inspected and found acceptable.

Inspected the following welds 1<sup>st</sup> floor

1. SS OH plate welds on lines 4, C and found it to be acceptable.

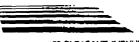
This will finish up the project at USM in Portland. If the stair welds need to be inspected, let us know.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely,

Gary E. Parechanian CWI# 96100681

Grigg E Parehannan



NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES ED PLEASANT AVENUE • SOI NH PORTLAND, MAINE 04106 • TEL: (207) 799-8911 • FAX: (207) 799-7261





December 04, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie, This letter will serve as my report for visual and Magnetic Particle Inspection for University of Southern Maine Parking Garage on 12/4/03 -

Inspected the following welds in the basement-

- 1. PSA welds line 8, C were inspected and found acceptable. SS OH plate welds on lines 4, C and 8, C were still missing.
- 2. PSA weld line 11, between A & B still needs weld added.

Inspected the following welds on the first floor-

1. PSA strap on lines 4, C were inspected and found acceptable, SS OH plate welds on lines 4, C was still missing.

Inspected the following welds on the roof-

- 1. PSA strap on lines 1, C-D put up and welded, acceptable.
- 2. PSA strap on lines 1, D-E weld added, acceptable
- 3. PSA strap on lines 4, C acceptable.
- 4. PSA strap on lines 8, C & D acceptable

me Pacehannan Sincerely.

Gary E. Parechanian CWI# 96100681

### EYP/Fax

To/ Tammy Munson

At:	City of Portland	Fax: 874 8716
From:	Carol Potter	Telephone:
Date:	January 9, 2004	No. of Pages Including Cover: 4
Project No.:	5001024.00 USM Parking Garage	Cc:

Comments: Tammy,

I found this report in another file. The remaining reports were mailed to you Wednesday.

Call me at 228 8124 if you have any questions.

.

Thanks,

Finhorn Yaffee Prescott Architecture & Engineering, P.C.

36 Industrial Park Road, Suite 4 Saco, ME 04072	200 International Drive, Suite 170 Portsmouth, NH 03801		LETTER OF	TRANSMI	FTAL
l'el: 207-286-8008	Tel: 603-427-0244	Date		<b>D</b>	. <u></u>
Fax: 207-286-2882	Fax: 603-430-2041	Date:	19 Nov. 03	Project No.:	235-856
		Attention:	19 1404. 05		233-830
			John Rasmussen		
		Re:			
University of Southern Ma	aine		New Parking Gar Portland, Maine	age - USM	
P.O. Box 9300			ronand, Maine		
		-			
Portland, ME 04104-9300	)				
Copy of In	nclosed AttachedUnder separ	s for Invoice Co		pies of Report	
for the referenced project	×				
FJ					
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These are transmitted: Remarks: Copy To: Copy To: Copy To: Carol Potter, Clerk of the Work	As RequestedFor Your Use	For Approval			
These are transmitted:	As RequestedFor Your Use		Carol Ingargiola, A		



80 PLEASANT AVENUE SOUTH PORTLAND, MAINE 84106 TEL: (207) 799-8911 FAX: (207) 799-7251

November 18, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie,

This letter will serve as my report for visual and magnetic particle inspection for University of Southern Maine Parking Garage on:

November 17, 2003 Inspected the following welds in the basement-

- 1. Vertical panel-panel welds between A1-A11 have not been welded yet. Inspected the following welds on the first floor-
- 1. PSA straps on lines 1 and 11 were inspected and found acceptable, except line 1 has 3 straps not welded between E-C.
- 2. PSA straps on lines 3, 8, and A are not complete yet. Inspected the following welds on the second floor-
- 1. PSA straps on lines 1 and 11 were inspected and found acceptable. except line 1 has 1 strap not welded between D-C.
- 2. PSA straps on lines 3, 8, and A are not complete yet. Inspected the following welds on the third floor-
- 1. End clips A-B-C-D-E-1-11 have been welded, inspected and found acceptable, except 9E-11E have not been completely welded yet.
- 2. End clips B1-B11 were magnetic particle inspected and found acceptable.
- 3. PSA straps on lines 1,11, and A were inspected and found acceptable, except 1 strap on line 1 between D-C is not welded yet.
- 4. PSA straps on lines 3 and 8 are not complete yet. Inspected the following welds on the roof-
- 1. End clips A-B-C-D-E-1-11 have been inspected and found acceptable.
- 2. End clips B1-B11 were magnetic particle inspected and found acceptable.
- 3. C3-C9 and D3-D9 vertical panel-panel welds were inspected and found acceptable.
- 4. PSA straps on lines 1 and 9 were inspected and found acceptable.
- 5. PSA straps on lines 3, 8, 11, and A are not complete yet.



-Stairways A.3-A.5-10-11 and D.7-E-10-11 were inspected (all floors) and found acceptable, except 1 clip in the basement of D.7-E-10-11 stairway is not welded yet.

Sincerely, and

David Pratt CWJ# 97100861

R. W. Gillespi	e & Associates, Inc.			O PY
86 Industrial Park Road, Suite 4 Saco, ME 04072 Tel: 207-286-8008	200 International Drive, Suite 170 Portsmouth, NH 03801 Tel: 603-427-0244		LETTER OF	F TRANSMITTAL
Fax: 207-286-2882	Fax: 603-430-2041	Date:	06 Jan. 04	Project No.: 235-856
		Attention:	John Rasmussen	
		Re:	John Rasinussen	a annan a' a' ann an an an ann an ann an
University of Southern Ma	aine		New Parking Gar	age - USM
P.O. Box 9300			Portland, Maine	
Portland, ME 04104-9300		а		
Copy of In	aclosed <u>Attached</u> Under sepa voice <u>Copy of Documentation/Detai</u> netic Particle Inspection by Qualit	ls for Invoice C	Copy of Letter Cop	pies of Report
These are transmitted:	_As RequestedFor Your Use	For Approva	al For Review a	nd Comment

Copy To: Carol Potter, Clerk of the Works c/o John Rasmussen Ron Milley, Granger Norther, Inc. Tammy Munson, City of Portland Dept. of Inspections Signed:

Carol Ingargiola,

If enclosures are not as noted, kindly notify us at once.



NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES 80 PLEASANT AVENUE . SOUTH PORTLAND, MAINE 04106 - TEL: (207) 793-0911 . FAX: (207) 799-7251



YST

December 24, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie, This letter will serve as my report for visual and magnetic particle inspection for University of Southern Maine Parking Garage on 12/24/2003.

Inspected the following welds in the basement-

- 1. SS OH plate welds on lines 4, C and 8, C were inspected and found acceptable.
- 2. PSA Line 11, Between A & B were inspected and found acceptable.

Inspected the following welds 1<sup>st</sup> floor

1. SS OH plate welds on lines 4, C and found it to be acceptable.

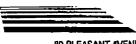
This will finish up the project at USM in Portland. If the stair welds need to be inspected, let us know.

If I can be of further assistance, Please call me at 207-799-8911.

Sincerely,

Gary E. Parechanian

Jugg E Parechanian



NON-DESTRUCTIVE TESTING AND INSPECTION SERVICES 80 PLEASANT AVENUE . SOUTH PORTLAND, MAINE 04106 . TEL: (207) 799-9911 . FAX: (207) 790-7251



December 04, 2003

Gillespie, R. W. & Associates 86 Industrial Road Suite 4 Saco, Maine 04072

Subject: University of Southern Maine Parking Garage Project# 235-856 QAL# 03-544

Attn. Robert Gillespie.

This letter will serve as my report for visual and Magnetic Particle Inspection for University of Southern Maine Parking Garage on 12/4/03 -

Inspected the following welds in the basement-

- 1. PSA welds line 8, C were inspected and found acceptable. SS OH plate welds on lines 4, C and 8, C were still missing.
- 2. PSA weld line 11, between A & B still needs weld added.

Inspected the following welds on the first floor-

1. PSA strap on lines 4, C were inspected and found acceptable, SS OH plate welds on lines 4, C was still missing.

Inspected the following welds on the roof-

- 1. PSA strap on lines 1, C-D put up and welded, acceptable.
- 2. PSA strap on lines 1, D-E weld added, acceptable
- 3. PSA strap on lines 4, C acceptable.
- 4. PSA strap on lines 8, C & D acceptable

me Parechannan) Sincerely,

Gary E. Parechanian CWI# 96100681

CETY OF PORTLAND, MAINE Department of Building Inspection Certificate of r and a LOCATION 188 Bedford St CBL 115 B009001 Issued to University Of Maine/Granger Northern, Inc. Date of Issue 01/16/2004 6-21 This is to certify that the building, premises, or part thereof, at the above location, built - altered changed as to use under Building Permit No. 03-0011 , has had final inspection, has been found to conform substantially to requirements of Zoning Ordinance and Building Code of the City, and is hereby approved for occupancy or use, limited or otherwise, as indicated below. APPROVED OCCUPANCY PORTION OF BUILDING OR PREMISES Entire Parking Garage Use Group S-2 Type 2C BOCA 1999 Limiting Conditions: TEMPORARY: Expires July 30, 2004. Site work incomplete. Loam & Seed, Landscaping, Final paving & striping, Sidewalks, Removal of temp parking area, and Misc. sitework and cleanup. This certificate supersedes certificate issued Approved:/ Inspector of Buildings Inspector No rred from will be furnished to ov see for one dollar

