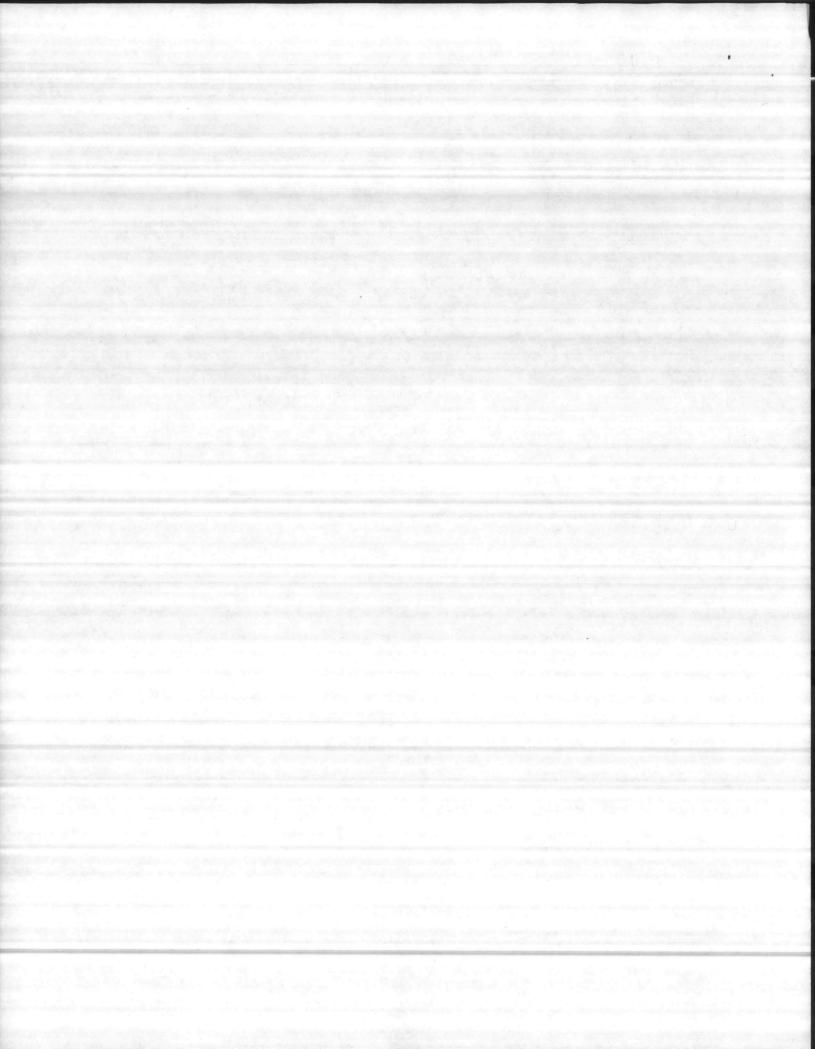
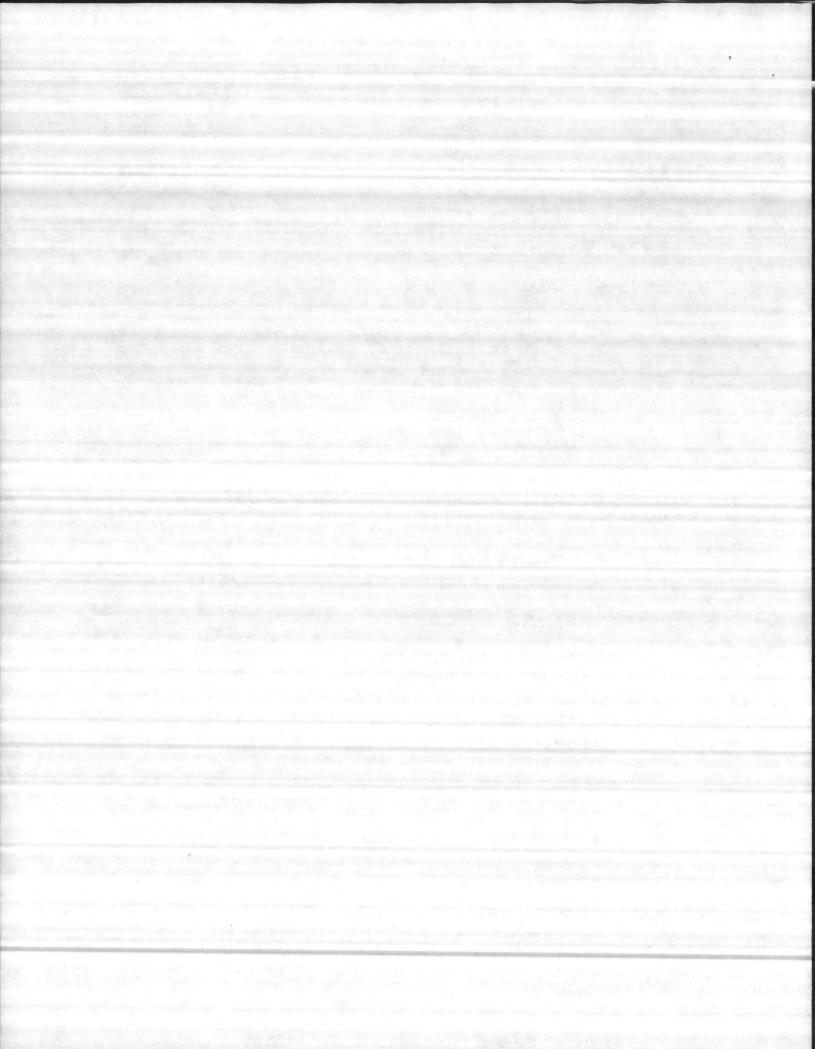
_	CITION OLK 4-	4355/3 (Rev	AL TRAN		-	CONTRACTING		TRANS	MITTAL NO.	1000	
FROM CONTRACTOR			and a second	81-C-1766		/2B		Jan. 16,1984			
	Trader Co	onstruc	tion Bo		·,*.	PROJECT TITLE		N		o all.	10,198
TO	9494D		100000000000000000000000000000000000000	CALIFIC TRACTOR			Works				
	Lockwood G	reene/	Six Appr	ototor		MCB					
1000			CONT	RACTOR US		Camp L	ejeune,	N. C.			
	Sec. Hale Sec.	.1	ist only one	HACTOR US	EONLY		Section 20	2. 0	1	VIEWER USE (
			not only one s	specification o	division per fo	rm.				ACTION COD	
		List only one	of the follow	ing categorie	s on each trai	nsmittal form,			A-Ap	proved	25
X	Contractor Approved			ng submitted	nitted			D-Disapproved AN-Approved as noted RA-Receipt acknowledged.			
	Contractor Approved OICC Ap			OICC Appro	pproval Deviation/Substitution						
NO.	PROJ. SPEC. SECT.		For OIC			For OICC	Approval	C-Comments R-Resubmit			
ITEM	& PARA. and/or	ITEM IDENTIFICATIO									
E	PROJ. DWG. NO. *		(Typ	be, size, mode	l no., Mfg. na nure number)	me, dwg. or	1.88	NO. OF COPIES	ACTION CODES	REVIEN	ALS
138	08515	ਸ	Malan			and the second second	e solate set		1	CODE AN	DDATE
T		·· ··	Maloney	, Glazi	ng Gaske	et, Test	Data		A	A.B.	July
-	Constant States									1 -1	1-00
			Haver 1	di i tra	tion Rec	luirement	S	7			
-	and the second se							T			
			1.10	Section and a	1		- Auro		1.1.1		
-+-		and the set	and the second	1					Sector Sector	Automatic States	
			12927		14.91						~
-									1		
					A CONTRACTOR	Charles of the second			20	F	and the second second
	and the second								0	wake	
CONTR	ACTOR'S COMMENTS								DI	2 - 0	1.000
CONTR	ACTOR'S COMMENTS										
	ACTOR'S COMMENTS	IR APPRO	OVED COF	PIES							
		IR APPR(OVED COF	PIES						13 12 09	
		IR APPRO	OVED COF	PIES					TCC JAXNC	13 12 09	
P <u>lea</u>	SE RETURN FOU			PIES						13 12 09	
PLEA	SE RETURN FOU	TTALS TO ROI		PIES	 				TCC JAXNC		
PLEA COPY OF RO:	SE RETURN FOU	TTALS TO ROI	cc		C°		ESENTATIVE (SA	gnature)	TCC JAXNC	13 12 09	
PLEA COPY OF RO:	SE RETURN FOU	TTALS TO ROI	cc		- Ico		Lale	gnature)	TCC JAXNC	13 12 09	
PLEA COPY OF RO DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC, Camp Lej. Ceived by reviewer 1/19/84	TTALS TO ROI OUNG, N	CC FROM (Review Six Ac	er)	<u>II Y</u>	<u>15. R</u>	To	E.	TOC JAXNCA	13 12 09 PH '84 9	<u> </u>
PLEA COPY OF RO DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC, Camp Lej. Ceived by reviewer 1/19/84	TTALS TO ROI OUNG, N	CC FROM (Review Six Ac	er)	<u>II Y</u>	<u>15. R</u>	To	E.	TOC JAXNCA	13 12 09 PH '84 9	<u>)</u>
COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC, Camp Lef CEIVED BY REVIEWER 1/19/84 Ubmittals are returned w actor calls attention to a	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co	JAXNCA all	13 12 09 PH '84) the con-
COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC, Camp Lef CEIVED BY REVIEWER 1/19/84 Ubmittals are returned w actor calls attention to a	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co	JAXNCA all	13 12 09 PH '84	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/84 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form.	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co	JAXNCA all	13 12 09 PH '84	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC, Camp Lej. Ceived by reviewer 1/19/84	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co	JAXNCA all	13 12 09 PH '84	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/84 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form.	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co	JAXNCA all	13 12 09 PH '84	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/84 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form.	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co from the co	AXNCA AXNCA anstruct ontract requi	The second secon	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/34 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form.	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co from the co n and in co	all mments below	The second secon	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/34 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form.	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co from the co n and in co	AXNCA AXNCA anstruct ontract requi	The second secon	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/34 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form.	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co from the co n and in co	all mments below	The second secon	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/34 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form.	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co from the co n and in co	all mments below	The second secon	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/34 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form.	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co from the co n and in co	all mments below	The second secon	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/34 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form.	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co from the co n and in co	all mments below	The second secon	the con-
PLEA COPY OF RO: DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/34 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form.	TTALS TO ROI	FROM (Review Six As dicated. Appros	er) SOCIATE: Dvalofanitem	s, Inc.	Ude approval of a	TO Tra any deviation	der Co from the co n and in co	all mments below	The second secon	the con-
PLEA COPY OF RO: DATE RE SI SI SI SI SI VIEWER	SE RETURN FOU TRANSMITTAL AND SUBMI ICC, Camp Left CEIVED BY REVIEWER 1/19/84 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form. 'S COMMENTS	TTALS TO ROI <u>CUDO</u> , <u>N</u> ith action inc and supports to LANTDIV	FROM (Review Six As dicated. Appro- the deviation with A-E reco	er) SOCIATE: Dvalofanitem	s, Inc. does not inclu	ude approval of a REVIEWER USE	TO Tra any deviation	der Co from the co n and in co	all mments below	The second secon	the con-
PLEA COPY OF RO DATE RE	SE RETURN FOU TRANSMITTAL AND SUBMI ICC. Camp Lef. CEIVED BY REVIEWER 1/19/84 Ubmittals are returned w actor calls attention to a ubmittals are forwarded to insmittal form. 'S COMMENTS	TTALS TO ROI <u>CUDO</u> , <u>N</u> ith action inc and supports to LANTDIV	FROM (Review Six As dicated. Appros	er) SOCIAte Dval of an item n. mmendations	s, Inc.	ude approval of a REVIEWER USE	TO Tra any deviation	der Co from the co n and in co	all mments below	The second secon	the con-



	A. A. SAKHNOVSKY O CONSTRUCTION RESEARCH LABORAT
	7600 N. W. 79th AVENUE . MIAMI . FEGRIDA LABORAT
	August 10 100 (305) 592.
	August 19, 1977 (305) 592. (materie) biov certified that the (certification of the state of the
	Test No. 2603 - Curtain Wall Tested For Comments RECEIVED APR 218 19/8
	General Electric Credit, Canton, Ohio Client: United Plate Glass Company of Akron
	escription of Test Unit.
	-C Producte Comments
1	VDe lockstate
• •	ype lockstrip gaskets with the wall set within a 7" band of project precast with ggregate. The size of the window wall as 12° 4 11/16" wide (plus a 5 13/16" she promer return' by 7° 6" high. The installation was three openings wide with each plated panel.
	ass consisted of Chrome-A-Seal tinted unbanded 1" insulating glass units (1/4" a terior and exterior lights - 1/2" airspace).
Ť	e lights units (1/4" a
W;	e lights were 69 1/8" high with the side lights 46 3/8" wide and the center light de. The metal-gasket retaining member openings agreed with the client's drawing a 1" Mirawal panel thickness and it
	" Mirawal panel thickness varied plus and minus cher
Th +b	gasket glazing channels and Window still
	s gasket glazing channels and window sills were drained to the exterior. Refer
10	
- 1116	COTTAR Internet to deditions.
A +	corner intersections of the aluminum framing members were bedded in butyl seala
COI	leld applied exterior seal of GE Silpruf was applied at the window wall jamb to
66	lipruf silicone sealant was used for the window with
The	mating surface of the lockstrip gasket flange and metal framing members was bed
1n]	Better
in	ALL LITE DAMA - I
in 1	Bottom perimeter corners - 5" horizontally and vertically, exterior
1n	Bottom perimeter corners - 5" horizontally and vertically, exterior and interior flange Top perimeter corners - 5" wide, exterior and interior flange
The	Bottom perimeter corners - 5" horizontally and vertically, exterior and interior flange Top perimeter corners - 5" horizontally and vertically, exterior flange ating surfaces of the outer flange of the lockstrip gaskets and the glass or he lower left corner of the right panel.

.



	08515-3
A. A. SAKHNOVSKY O CONS	STRUCTION RESEARCH LABORATORY
7600 N. W. 79th AVENUE . MIAMI Page 2. Test No. 2602	TRACTION RESEARCH LABORATORY
ee = , 1050 Md. 2003	(305) 592.9993
The window frame was anchored to the vation with $1/4^{"}$ diameter round heat through a $5/16^{"} \ge 1 1/4^{"}$ slot in the comments regarding Detail A-A.	he precast at the insert locations shown on the ele- ad machine screws and regular washers fastened directly he 1/4" thick recessed portion of the frame. Refer to
At Section A-A:	
The 1/8" plate and 1/4" aluminum ba into the framing member (typical).	ar were not used. The $5/16" \ge 1/4"$ slot was punched
The weep holes were 3/16" diameter and at midspan.	"It is hereby certified that the (equipment) (material) shown and marked in this submit- tal is that proportional in this submit- located at each fight '3" in from the daylight opening compliance with the Contract drawings and specifications, can be in the sile of and ed space, and is submit in the sile cat-
At Detail 3:	Specifications, can in installad in the allocat-
The weep holes in the web of the gas	approval. sket were 1/4" diameter centered in each
The Ween holes in the sta	Date 1-16-84 Date 1-16-84 om flange of the gasket in each opening were approxi- veral inches from the mullion. There were two holes
At Detail 6:	
The window jambs and brake formed co	orner were not anchored to the structure.
Size of Test Window Wall:	
12' 10 1/2" wide (developed width) by	v 7º 6" high
	· · · · · · · · · · · · · · · · · · ·

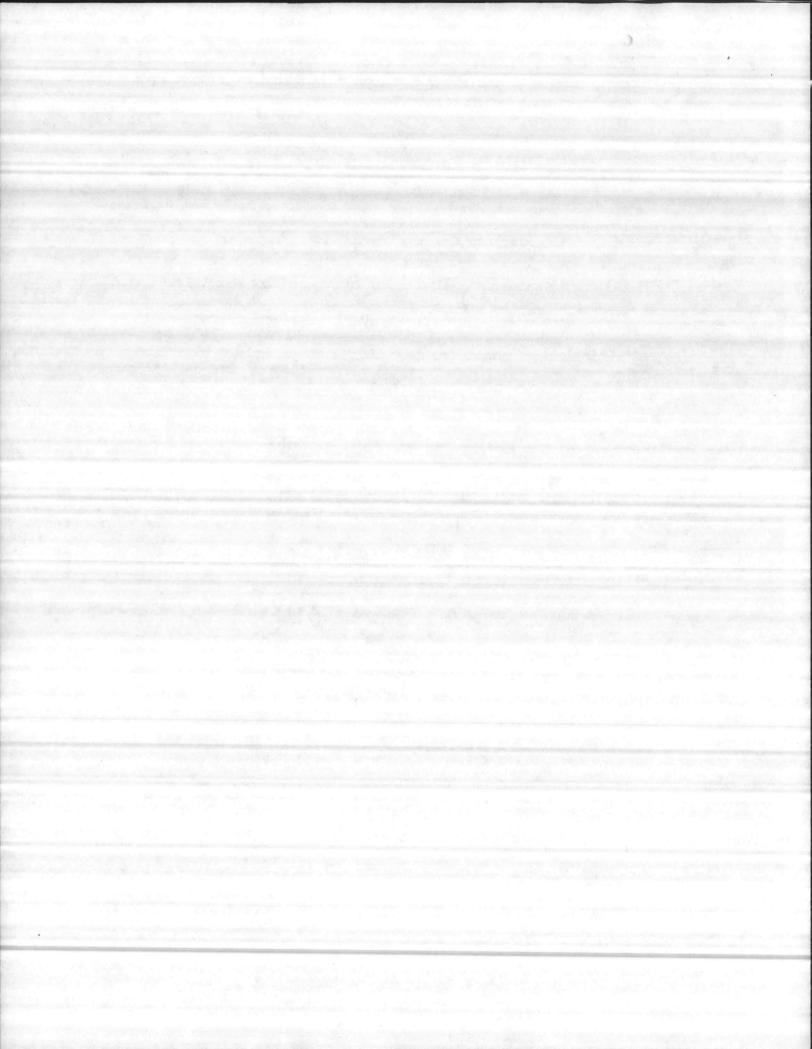
<u>Witnessed by</u> : Messrs (for all or partial testing)	Ben Hawkins - United Plate Glass Co. of Akron Bob Baker - J-C Products Corporation
	Jerry Courtney Tom Wright - F. H. Maloney Company
Mannon of Maria	Richard Sembello - Construction Research Laboratory

Manner of Testing:

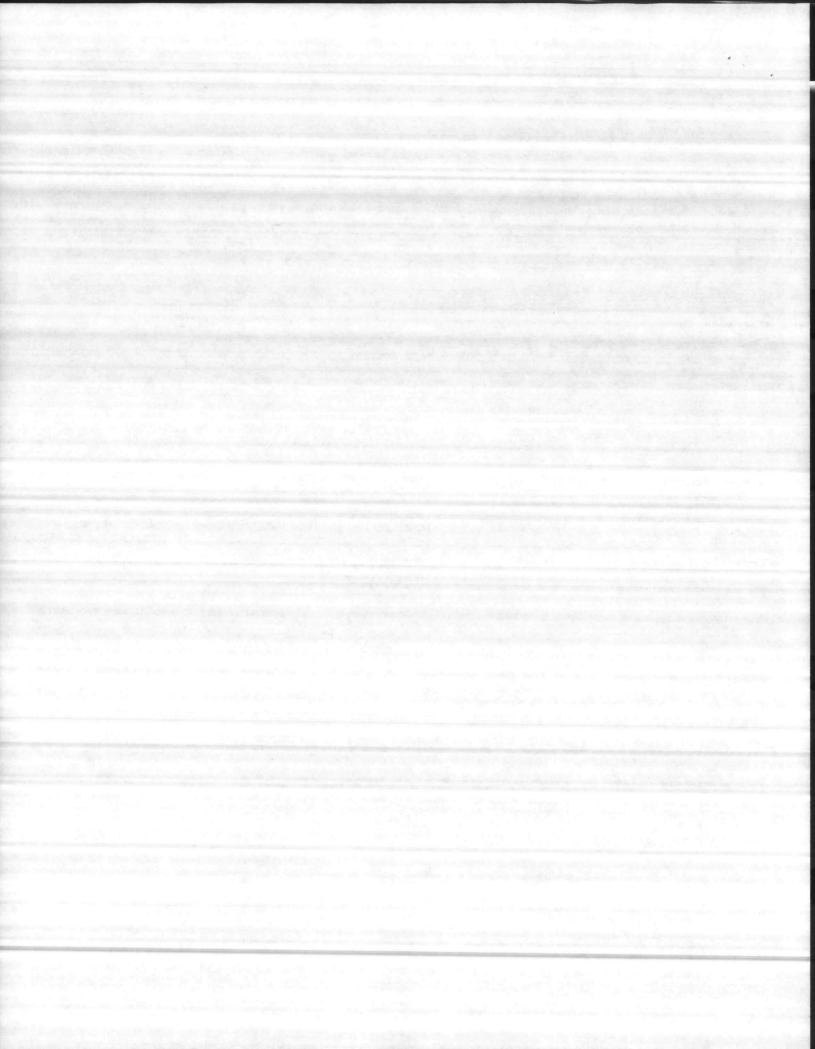
The test sample was installed in a strong test chamber with anchorage designed to simulat job conditions. The test sample was tested for static pressure air and water infiltratio dynamic pressure water infiltration, and static pressure structural performance in substa tial accordance with the current procedures described in the National Association of Arch itectural Metal Manufacturers (NAAMM) Metal Curtain Wall Manual.

The order of testing was as given below.

The wall was subjected to a positive 10 psf static pressure load per the current NAAMM procedure before conducting any tests.



	AKHNOVSKY O CONSTRUCTION RESEARCH LABORATON
7600 N.	W. 79th AVENUE . MIAMI . FLOPIDA
	Test No. 2603 (305) 592.92
	rvations are referenced to viewing the test unit from the exterior. Where s are identified by number, they have arbitrarily been numbered from left t
the dial	eflection data for the structural load testing, the number following the sl indicator reading taken after removal of the test load. The "net" deflect s midspan deflection less the average end movement under load. The dial in to zero after each test load.
Test Cond	litions and Results:
Test I -	Water Infiltration by Static Pressure
The wall	was subjected to a water spray at the little of a
loot and	static pressure of 4 psf for 15 minutes (riel) above and marked in the (equipment)
Results:	No uncontrolled water infiltration: Control is Control in the control in the infiltration in the control is the control in the
Allowed:	
Measured:	No uncontrolled water infiltration. No water infiltration. No water Infiltration by Dynamic Pression by Control by Cont
Test TT -	approval. and is outproved in the au
	Gardin Turner
	Water Infiltration by Dynamic Pressure by DS Covernment
	Date
	Date
Coot and w 50% of 20	Water Infiltration by Dynamic Pressure by DS Date Date Covernment Uas subjected to a water spray at the rate of five fallons per hour per sque inds from a 3000 horsepower aircraft engine wind generator at nominal 10 ps psf design load) for 15 minutes.
cot and w 50% of 20	Date
Coot and w 50% of 20	Date Date -16-8 allons per hour per squares from a 3000 horsepower aircraft engine wind generator at nominal 10 per design load) for 15 minutes.
cot and w 50% of 20	Date
cot and w 50% of 20 esults: llowed: easured:	Date Date -/6-8 five fallons per hour per square vinds from a 3000 horsepower aircraft engine wind generator at nominal 10 ps psf design load) for 15 minutes. No uncontrolled water infiltration.
esults: <u>llowed</u> : <u>easured</u> : <u>eakage</u> at	Date Date <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u> <u>Uate</u>
esults: <u>llowed</u> : <u>easured</u> : <u>eakage at</u> <u>per right</u> <u>id the rem</u>	No uncontrolled water infiltration. No uncontrolled water infiltration.
<u>coot and w</u> <u>coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and coot and coot and <u>coot and coot and </u></u></u></u>	No uncontrolled water infiltration. No uncontrolled water infiltration. the rate of approximately eight drops per minute occurred at the gasket at mainder dripping onto the sill. the rate of approximately one drop per minute occurred at the bottom right lights #2 and #3.
<u>coot and w</u> <u>coot and coot and coot and <u>coot and coot and coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and c</u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>	No uncontrolled water infiltration. No uncontrolled water infiltration. the rate of approximately eight drops per minute occurred at the gasket at mainder dripping onto the sill. the rate of approximately one drop per minute occurred at the bottom right k occurred at the bottom left corner of light #2.
<u>coot and w</u> <u>coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and co</u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>	No uncontrolled water infiltration. the rate of approximately eight drops per minute occurred at the gasket at minder dripping onto the sill. the rate of approximately one drop per minute occurred at the bottom right k occurred at the bottom left corner of light #2. Structural Performance Tests by Static Pressure
<u>coot and w</u> <u>coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and <u>coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and coot and coot and coot and </u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>	Date to be the subjected to a water spray at the rate of five fallons per hour per square spray at the rate of five fallons per hour per square per design load) for 15 minutes. No uncontrolled water infiltration. the rate of approximately eight drops per minute occurred at the gasket at corner of panel #3 with a portion draining down the jamb gasket to the simal ander dripping onto the sill. the rate of approximately one drop per minute occurred at the bottom right lights #2 and #3. k occurred at the bottom left corner of light #2. Structural Performance Tests by Static Pressure s subjected to the following structural loadings held for tar even in the structural performance to the structural performance to the structural performance to the structural loadings held for tar even in the performance to the structural performance to the structural performance to the structural performance to the structural loadings held for tar even in the performance to the structural performance to the performa
<u>coot and w</u> <u>coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and coot and coot and <u>coot and coot and coot and coot and <u>coot and coot and coot and <u>coot and coot and coot and coot and coot and <u>coot and coot and coo</u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>	No uncontrolled water infiltration. No uncontrolled water infiltration. the rate of approximately eight drops per minute occurred at the gasket at mainder dripping onto the sill. the rate of approximately one drop per minute occurred at the bottom right industry and #3. the rate of approximately one drop per minute occurred at the bottom right lights #2 and #3. k occurred at the bottom left corner of light #2. Structural Performance Tests by Static Pressure s subjected to the following structural loadings held for ten seconds each; f - to remove slack at 50% of positive pressure design load
<u>coot and w</u> <u>coot and w</u> <u>coot</u>	No uncontrolled water infiltration. The rate of approximately eight drops per minute occurred at the gasket at the rate of approximately eight drops per minute occurred at the gasket at animate dripping onto the sill. the rate of approximately one drop per minute occurred at the bottom right lights #2 and #3. k occurred at the bottom left corner of light #2. Structural Performance Tests by Static Pressure a subjected to the following structural loadings held for ten seconds each: f - to remove slack at 50% of positive pressure design load f - to measure deflection at 100% of positive pressure design load
<u>coot and w</u> <u>coot and w</u> <u>coot</u>	No uncontrolled water infiltration. No uncontrolled water infiltration. the rate of approximately eight drops per minute occurred at the gasket at animate drapproximately eight drops per minute occurred at the gasket at the rate of approximately eight drops per minute occurred at the gasket at the rate of approximately eight drops per minute occurred at the gasket at the rate of approximately one drop per minute occurred at the bottom right lights #2 and #3. k occurred at the bottom left corner of light #2. Structural Performance Tests by Static Fressure a subjected to the following structural loadings held for ten seconds each; f - to remove slack at 50% of positive pressure design load f - to remove slack at 50% of negative pressure design load
<u>coot and w</u> <u>coot and w</u> <u>coot</u>	No uncontrolled water spray at the rate of five fallons per hour per square to psf design load) for 15 minutes. No uncontrolled water infiltration. the rate of approximately eight drops per minute occurred at the gasket at a corner of panel #3 with a portion draining down the jamb gasket to the si mainder dripping onto the sill. the rate of approximately one drop per minute occurred at the bottom right lights #2 and #3. k occurred at the bottom left corner of light #2. Structural Performance Tests by Static Pressure s subjected to the following structural loadings held for ten seconds each: f - to remove slack at 50% of positive pressure design load f - to remove slack at 50% of negative pressure design load f - to remove slack at 50% of negative pressure design load f - to measure deflection at 100% of negative pressure design load f - to measure deflection at 100% of negative pressure design load
<u>coot and w</u> <u>coot and w</u> <u>coot</u>	No uncontrolled water infiltration. No uncontrolled water infiltration. the rate of approximately eight drops per minute occurred at the gasket at mainder dripping onto the sill. the rate of approximately one drop per minute occurred at the bottom right industry and #3. the rate of approximately one drop per minute occurred at the bottom right lights #2 and #3. k occurred at the bottom left corner of light #2. Structural Performance Tests by Static Pressure s subjected to the following structural loadings held for ten seconds each: f - to remove slack at 50% of positive pressure design load



5.3.1

Postanting (Trahan)

A. A. SAKHNOVSKY O CONSTRUCTION RESEARCH LABORATORY

7600 N. W. 79th AVENUE • MIAMI • FLORIDA • 33166 • (305) 592-9222 (305) 592-9223 Page 4, Test No. 2603

No damage or failures occurred as a result of the above noted loadings.

*These tests were not required by the project specifications.

Deflection measured at significant locations and the midspan of typical members was as follows:

				Deflection		
Member	"It is here!	by contified that the	Span	Measured		Allowed L/175 or
	tal is that	In anonal is a	In this submit-	+20 nef	-20 psf	3/4" max. a design load
Typical intermediate bottom midspan top midspan (net)	ed cpacca, a approval.	Taber Men 170 81. With the Contract of Contract be installed and is satimited	C-17 Les In Travings and in the allocat- Ccv 86 thent	.060/.015	.090/.020 .270/.030 .100/.060 .175/010	.491
Midspan of typical i framing member	ntermediate 1 Date	I-16-80	<u>s</u> <u>47"</u>	.010/0	.010/0	•2ć9

Note: Glass deflections were reported in the preliminary report submitted July 22, 1977.

Test IV - Air Infiltration by Static Pressure

The air infiltration through the wall at a static pressure of 1.56 psf (equal to a 25 MFH wind) was:

Allowed: 0.06 cfm per square foot or 5.5 cfm total

Measured: 0.005 cfm per square foot or 0.5 cfm total

<u>Test V - Supplementary Structural Performance Tests by Static Pressure</u> (These tests were not required by the project specifications)

The wall was subjected to the following structural loadings held for ten seconds each:

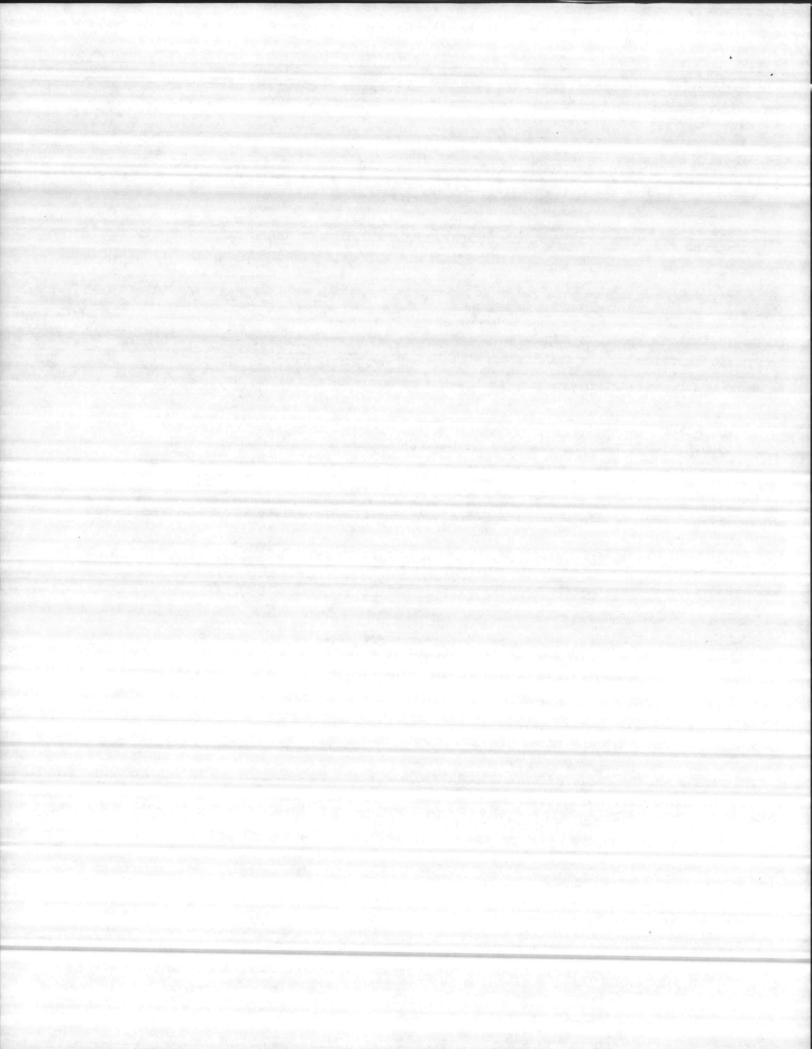
+ 45 psf - to demonstrate a safety factor of 225% of positive design load

The wall was also subjected to momentary loadings of -42 psf and -56 psf after which time testing was terminated.

No damage or failures occurred as a result of the above noted loadings.

Comments:

Interior gasket lip pressure along the entire top of the right panel and along a significant portion of the top of the other two panels was almost non-existent. Interior



A. A. SAKHNOVSKY O CONSTRUCTION RESEARCH LABORATORY 7600 N. W. 79th AVENUE . MIAMI . FLORIDA . 33166 (305) 592-9222 Page 5, Test No. 2603 (305) 592-9223

gasket lip pressure was marginal at several other corners. Where gasket lip pressure is inadequate a supplementary butyl wet seal between the interior gasket flange and glass should be applied to provide a watertight installation.

The intersection of the panel interior top gasket and lockstrip gasket jab presents the possibility of a gasket seal discontinuity. A supplementary butyl seal at this location may be beneficial.

Insertion of a .003" thick feeler gage between the gasket sealing lips and infill is a good method of determining if adequate lip pressure is being attained. Adequate pressure would cause the feeler gage to be held snugly by the gasket or it may make it impossible

The force of driving the gasket spline into the intermediate horizontal member broke several of the member assembly clip screws (see Detail 2). Care must be exercised in

All joints in the precast concealed by the window frame must be packed and sealed prior to window installation if the interior perimeter seals are to perform as a water barrier; however, even if this is done any water collected over 1/4" deep will leak to the interio: through the metal to metal jointery of the sill cover and the vertical members. This seal is not required to make the wall system function.

Summary:

....

The wall was tested in accordance with the Architect's performance criteria for static pressure air and water infiltration, dynamic pressure water infiltration and static pressure structural performance. The wall has met the Architect's performance criteria for static pressure air and water infiltration and static pressure structural performance. The wall has met the intent of the Architect's performance criteria for dynamic pressure Water infiltration considering the minor amount of leakage that occurred at a water test pressure of 50% of the structural design load.

> Respectfully submitted, CONSTRUCTION RESEARCH LABORATORY

"It is hereby certified that the (equipment) (material) shown and marked in this submit- C Sandelley (materies) shown and incorporated interichard Sembello Contract Number Nacizo 81-C-17 4 compliance with the Contract drawings and specifications, can be installed in the allocated append, and is antimitied Government Commente DS Date 1-16-84

