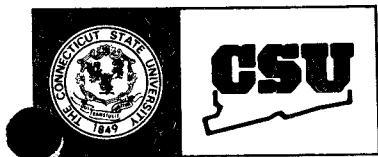


# THE CONNECTICUT STATE UNIVERSITY

P.O. Box 2008 • New Britain, Connecticut 06050 • (203) 827-7700



## RESOLUTION

concerning

AUTHORIZATION TO PERFORM REPAIRS ON A BUILDING SUPPORTED  
BY THE  
AUXILIARY SERVICES FUND  
at  
CENTRAL CONNECTICUT STATE UNIVERSITY

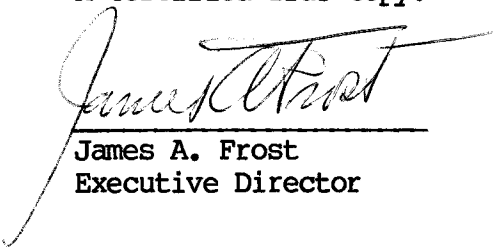
November 4, 1983

WHEREAS, Potentially dangerous cracks have developed in concrete slab areas of the parking garage on the Central Connecticut State University campus, and

WHEREAS, The lease between the State of Connecticut and the City of New Britain, entered into in accordance with the provisions of Special Act #128 of the 1969 Session of the General Assembly, requires that the State shall pay all expenses of repairs to the garage structure, be it

RESOLVED, That Central Connecticut State University is authorized to have repairs made to the parking garage on its campus as determined to be necessary by the Department of Administrative Services, Bureau of Public Works, and at a cost estimated by said Bureau of Public Works to be \$70,500, such cost to be met from the resources of the Central Office Auxiliary Services Account.

A Certified True Copy:

  
James A. Frost  
Executive Director

Central Connecticut State University • New Britain  
Eastern Connecticut State University • Willimantic

Southern Connecticut State University • New Haven  
Western Connecticut State University • Danbury

STATE OF CONNECTICUT

★ Thank You for Sharing Your Idea. ★

Please send your ideas to: *Employees' Suggestion Awards Program, 165 Capitol Ave., Hartford, 06106.*

Department Message

SAVE TIME: *Handwritten messages are acceptable.*

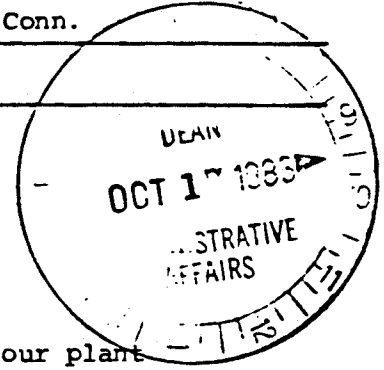
*Use carbon if you really need a copy. If typewritten, ignore faint lines.*

STG. REV. 11/81 STATE OF CONNECTICUT  
(Stock No. 6938-051-01)

<b>To</b>	NAME Dr. John Zulick	TITLE Associate Dean	DATE October 12, 1983
	AGENCY Central Connecticut State Univ.	ADDRESS 1615 Stanley Street, New Britain, Conn. 06050	
<b>From</b>	NAME Morgan S. Ely	TITLE Chief of Design and Review	TELEPHONE 3790
	AGENCY DAS-Bureau of Public Works	ADDRESS State Office Bldg. Hartford, Conn.	

SUBJECT

Cracks in Slab of Parking Garage  
At Wells Street  
Central Connecticut State University  
New Britain, Connecticut  
Project: RC-General



As per your phone request, Mr. Arvid Kulits, in the company of your plant and maintenance engineers, inspected the crack in concrete slab at Level "E" of the above garage, on October 11, 1983.

FINDINGS:

a) This crack of about 1/4" to 1/2" width extends through the entire R/C parking deck of 60 foot width. The wire mesh extending through the crack is partially broken and there is no resistance to vertical displacements of the broken slab edges.

Inspection of other slab areas revealed that they are similar but no so wide cracks at the following levels:

- 1) Level "A" - Center.
- 2) Level "B" - South.
- 3) Level "D" - South
- 4) Level "E" - Center (another crack easterly of the wide crack on Level "E").
- 5) Level "H" - North.

The two (2) cracks on Level "E" are through the entire 4" concrete slab where the remaining four (4) cracks are subject to widening in the future.

b) The cracks are due to lack of sufficient number of expansion joints in this large parking structure of 180 ft. by 500 ft. plan dimensions.

Further, the thermal stresses are compounded by stress reversals due to the shallow design of the structural system.

To: Dr. John Zulick

Project: RC-General  
Date October 12, 1983

RECOMMENDATIONS:

- a) Four (4) steel plates (4' x 12' x 1/4 inch thick) shall be placed over the wide crack at Level "E"; the temporary plates shall be bolted to the slab and to be placed with the long dimension in E/W direction over the concrete beams on 8'-0" on center. Parking spaces above and below the crack shall not be used.
- b) The two cracks on Level "E" shall be repaired by replacing the concrete slab and the other cracks not extending through the entire slab have to be monitored.
- c) Driving speed shall be limited to 10 MPH to avoid excessive impact stresses. Further, this garage shall be limited to passenger cars only.
- d) A Structural Engineer shall be engaged to provide structural computations and prepare plans and specifications of the repair work.
- e) An attempt has to be made to obtain structural As-built plans and computations from the City of New Britain. The plans made available by the Agency do not show structural details;
- f) Budget costs of repairing the two (2) cracked slabs at Level "E" are as follows:

1) Demolition .....	\$ 8,000.
2) Replacement .....	50,000.
3) Engineering Fees....	7,500.
4) DAS-BPW Fees .....	5,000.
TOTAL.....	<u>\$70,500.</u>

Please secure the above funds so that we may proceed with the repair work.

M Ely/akr

- cc: Dep. Comr. Cassin
- Messrs. Doeg
- Ely
- Kulits
- Cutts