



inc.

consulting
engineers

Dean Gillham, President

August 22, 1993

Department of Education
P.O. Box DE
Agana, Guam 96910

Attention: Dr. Franklin Quitugua

Subject: Untalan Middle School
Assessment of damages due to Earthquake of August 8, 1993

Dear Dr. Quitugua:

Our summary of the earthquake damage assessment is as follows:

1. Overall, the structures on the Untalan campus sustained very slight damage as the result of the August 8 earthquake. The damage is not, in our professional opinion, significant enough to impair the structures' abilities to withstand vertical and horizontal loadings.
2. Loose fragments of concrete and CMU block were observed at locations throughout the campus. Access to these areas should be restricted until these fragments can be removed and repaired, as the fragments represent a falling debris hazard.
3. Light fixtures have been displaced and need repair by proper Electrical personnel as soon as possible.

The damage we observed is as follows:

1. Cracks were observed in Library roof slab. These cracks should be repaired as soon as possible as they may cause leaks and corrode the rebars.
2. Cracks were observed in CMU lintel beam connecting the Library and Room 3. Loose CMU blocks should be removed as they represent a falling debris hazard.
3. Minor cracks were observed in the roof slabs and gabled concrete beams in Rooms 10 and 11. These should be repaired as soon as possible, as they are exposed to rain, and any water that enters the cracks and comes in contact with the embedded rebar can cause corrosion and further damage.

August 22, 1993
Dr. Franklin Quitugua
Page 2

4. Loose CMU blockwork was observed in the high voltage electrical room between Room 11 and the nurse/counseling office. These blocks should be removed immediately, as they represent a falling debris hazard. Access to this room should be restricted until the debris is removed.
5. Minor cracking was observed in numerous slabs, as well as the connections of the pipe columns supporting the walkway overhangs. The condition of the cracks indicates that they were present before the earthquakes. These cracks should be repaired immediately, as they can lead to corrosion problems outlined in item #1 above.

We have not made a structural analysis of the structural system and therefore have no opinion on the ability of the structural system to resist Code specified horizontal and vertical loading (either before or after the earthquake). Our opinion is limited to a comparison of the load resisting capabilities before and after the referenced earthquake.

Repairs should be made using materials specifically recommended by the manufacturer for use in the repair of structural concrete. The repair work should be performed by skilled workmen. The repair procedures should be approved, and monitored by a professional engineer.

Very truly yours,



Thomas P. Camacho, S.E.
Vice President

TPC/sjc



inc.

consulting
engineers

Dean Gillham, President

August 13, 1993

FAXED

Department of Education
P.O. Box DE
Agana, Guam 96910

Attention: Mr. Joe Benavente

Subject: John F. Kennedy High School

Dear Mr. Benavente:

Following our visual inspection of the school compound for earthquake related structural damages last August 10, 1993, we conclude that the ability of the primary structural system to withstand gravity, earthquake and wind loads have not been significantly affected by the earthquake. In general, the observed cracking and spalling were minor; however, there are areas and items that we identified as unsafe.

Please note that we have not made a structural analysis of the structural system and therefore have no opinion on the ability of the structural system to resist today's Code specified horizontal and vertical loading (either before or after the earthquake). Our opinion is limited to a comparison of the load resisting capabilities before and after the referenced earthquake.

The areas that are to be kept off limits due to hazards of wall or partition turning over in whole or in part due to wind or earthquake are listed below. These areas require further investigation, structural analysis and remedial work prior to opening for occupancy.

- 1) Rooms 214 and 215.
- 2) Library and Exterior Corridor or walk adjacent to the Library along the entire length of the wing.
- 3) Twenty feet each side of the Cafeteria exterior wall.

The items that need to be repaired or secured prior to using the spaces where these items exist are as follows:

- 1) Loose plaster at partitions and walls shall be removed.

August 13, 1993
Mr. Joe Benavente
Page 2

- 2) Loose concrete at floor expansion joints shall be removed and replaced with leveling concrete or other approved material.
- 3) The plastered partitions between classrooms are deteriorated due to age. Some of them have lost their ability to hold items attached to them such as blackboards. Loose or fallen items shall be properly secured. Reinforce partition with approved material where required.
- 4) Bookshelves shall be secured to prevent overturning during earthquake.
- 5) Cracks on the floors shall be checked for sharp edges. Where sharp edges occur, provide foot traffic protection. Remove loose tiles and provide a level surface.
- 6) Some lighting fixtures came off their supports. Reconnect fixtures and provide reinforcement where necessary.

Our inspection was limited to assessment of structural systems and components attached and did not include inspection of plumbing and electrical lines.

Very truly yours,



Ruben U. Velesrubio
Professional Engineer

RUB/sjc

cc: Dr. Hendricks, John F. Kennedy High School Principal

August 22, 1993

Department of Education
P.O. Box DE
Agana, Guam 96910

Attention: Dr. Franklin Quitugua

Subject: Simon Sanchez High School
Assessment of damages due to Earthquake of August 8, 1993

Dear Dr. Quitugua:

Our summary of the earthquake damage assessment during our inspection on August 20 and 21 are as follows:

1. The structures sustained minor earthquake damage. The observed damage had negligible effect on the ability of the primary structural system to resist vertical and horizontal loads. Areas or items that pose a hazard to the occupants are noted below.
2. Loose fragments of concrete or masonry should be removed. Also, remove loose roofing insulation and ceiling. Restrict use of areas where loose fragments occur until repairs are completed.
3. The areas of concern are:
 - a. Entrance canopy cracks were observed in the wall supporting the entrance canopy beam. We recommend that shoring be provided until repairs have been made.
 - b. Metal buildings (313, 314 & 315). Shifting of the building from the supporting CMU pedestals were observed. Most of the pedestals on Building 314 and a few on Building 313 and 315 were damaged. The damaged pedestals showed that they were not fully grouted. Repairs should be made prior to using these structures.
 - c. Second floor slab of the Main Building. Cracks were observed on the concrete topping at the joints between precast planks. Crack has to be repaired to restore slab strength for diaphragm action.

4. We recommend further structural analysis of the structural system, particularly the precast plank at the Main Building and the covered walkway steel framing around the structure to determine long term usability.

The damages we observed with the rest of the structure are as follows:

MAIN BUILDING

1. Slight separation of partition walls (cement plaster on metal lath) from masonry walls. Also, slight separation occurred between columns and partition walls.
2. Cracks were observed on the floor slab at ground floor hallway.
3. In the Library area, cracks were observed at corners of low wall. Slight separation was observed on stairs to wall connection.
4. Stair No. 4 suspended ceiling is sagging. This is a non-structural element.
5. Cracks were observed on the plastered ceiling of Room 206. Visual inspection of the frame members supporting the ceiling was not possible, however, the ceiling felt rigid when pushed up.
6. Cracks were observed on the exterior walls. Some appear to be existing cracks prior to referenced earthquake.
7. In the bathroom area, spalling of wall tiles were observed.

GYMNASIUM

1. Cracks were observed at the center portion of the court area.
2. Wall cracks were observed on column to wall joint at end walls and window sills. There was a slight separation of weight room walls from the main structure.
3. Cracks were observed at the canopy slab to wall connection. There were indications that the cracks existed before the referenced earthquake.

August 22, 1993
Dr. Franklin Quitugua
Page 3

METAL BUILDINGS

1. Light fixtures and ceiling were damaged on one pre-engineered steel building.

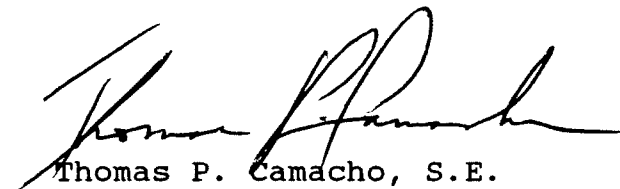
CAFETERIA

1. Minor cracks were observed on walls at the construction joint between wall and lower roof slab.
2. Some columns have fine cracks at the top portion, below the bottom of the beam. These cracks most likely were existent before the referenced earthquake.

We have not made a structural analysis of the structural system and therefore have no opinion on the ability of the structural system to resist Code specified horizontal and vertical loading (either before or after the earthquake). Our opinion is limited to a comparison of the load resisting capabilities before and after the referenced earthquake.

Repairs should be made using materials specifically recommended by the manufacturer for use in the repair of structural concrete. The repair work should be performed by skilled workmen. The repair procedures should be approved, and monitored by a professional engineer.

Very truly yours,



Thomas P. Camacho, S.E.
Vice President

TPC/sjc



FRANKLIN J.A. QUITUGUA, Ph.D.
Director of Education

FACILITIES AND MAINTENANCE DIVISION
DEPARTMENT OF EDUCATION
GOVERNMENT OF GUAM
P.O. BOX DE
AGANA, GUAM 96910
TEL.: 477-8540/8650



JOSEPH A. I
Facilities & Ma
Manag

NICANOR C
Building Main
Superinter

August 17, 1993

MEMORANDUM

To: Director of Education
Via: Associate Superintendent, Administrative Services
From: Administrator, C.I.P.
Subject: EARTHQUAKE DAMAGE ASSESSMENT

On Monday, August 9, a day after the earthquake hit the island; Facilities & Maintenance personnel were dispatched to conduct immediate preliminary damage assessments in all public schools.

Two days later on August 11, an assessment team comprised of structural engineers, Navy Seabees and government officials from the Governor's office, Department of Public Works, and our Department of Education proceeded to take a closer look at several schools that were reported to have suffered significant damages from the earthquake. According to preliminary damage assessment reports, all other schools suffered only minor damages.

As a result of the thorough inspections by the joint assessment team, a "Plan of Action" was developed to immediately address the repairable damaged structures, to replace heavily damaged structures, and to eliminate all safety hazards as soon as possible.

The main objective of this joint effort by Department of Public Works, D.O.E., and Navy Seabees was to ensure that school buildings were determined to be safe for occupancy and ready for school opening on August 23, 1993.

The following is a summary of these tasks by school and specific groups assigned to said tasks which are either ongoing or completed:

School	Task Description	Group Responsible
1. Inarajan High	A. Construction of 12 temporary classrooms	Navy Seabees

School	Task Description	Group Responsible
	B. Minor repairs wall cracks, etc.	
2. Upi Elementary	Replacement of shear walls in 8 classrooms	Navy Seabees
3. Tamuning Elem.	A. Removal of damaged canopy	Dept. of Public Works
	B. Repair of major damages in classrooms	Dept. of Public Works
4. Price Elem.	Repair of guard rails & minor cracks on walls	Dept. of Public Works & D.O.E.
5. C.L. Taitano	A. Painting of class- room interiors & hallways	Dept. of Public Works & D.O.E.
	B. Repair of damages in main office and restrooms	Contracted out by DPW
6. Oceanview High	Repair of minor cracks on walls & ceilings	Contracted out by DPW
7. Carbullido Elementary	Repair of damaged columns in hallways & minor damages in class- rooms	Navy Seabees
8. Ordot/Chalan Pago Elem.	Awaiting instruction on temporary classroom construction	Location for 14 temporary class- rooms indentified by C.I.P. staff

Note: All damages to plumbing, electrical, and air conditioning systems are being addressed by D.O.E. Maintenance crews as trouble reports are submitted by schools.

In addition to the above schedule repairs of damages and construction of temporary classrooms, we have attached assessment reports from three (3) structural engineering firms along with their recommendations.

EARTHQUAKE DAMAGE ASSESSMENT

August 17, 1993

Page 3/3

In summary, we strongly recommend that funding be identified now to perform structural analysis on all public schools in the island. The urgent need to perform this structural studies can be attributed to the following reasons:

- A. A major earthquake with its numerous aftershocks necessitates a structural engineer's assessment to ensure the safety of occupants.
- B. The discovery of design and construction deficiencies exposed by earthquake damages to school buildings.
- C. The Department of Education had devised a "Plan of Action" to perform structural analysis on all schools over a five year period. With the recent major earthquake we recommend that this process be accelerate to ensure the structural integrity of all school buildings now.

Should you have any questions on the above information, please contact my office at 472-2533.

Joe C. Benavente
JOE C. BENAVENTE

cc: Manager, Facilities & Maintenance Division
Board Members

WINZLER & KELLY
Consulting Engineers

tel: (671) 472-6792

Suite 904, GCIC Building
414 West Soledad Avenue
Agana, Guam 96910, USA
fax: (671) 477-6889

By: DWS Date: 12AUG93 Client: DOE, GUAM
Project: Earthquake Damage Assessment

Sheet No. 1/1
Job No.

Damage Assessment for: C.L. TAITANO ELEMENTARY SCHOOL, SINAJANA

Executive Summary

1. Close first floor of 3rd & 4th grade wing, excluding the cafeteria and kitchen.
2. A comprehensive inventory of all damage sustained and a complete and prioritized listing of all necessary repairs should be developed.
3. Estimated cost of repairs = \$150,000

Areas and Description of Significant EQ Damage

1. First floor of 3rd & 4th grade wing

Cracking of structural CMU column at southwest corner

Severe cracking and spalling of numerous CMU infill panels

Areas of Minor EQ Damage

Exterior stair towers, 1st & 2nd grade wing, temporary-permanent work.

(minor damage is typically cracking of beams, columns, infill panels and partitions.)

No other areas of damage were observed.

Post-It [®] brand fax transmittal memo 7671		# of pages	1
To	JOE BELLEVENTE	From	DWS
Co.	DOE	Co.	
Dept.	472-5001	Phone #	
Fax #		Fax #	16 Aug 93

WINZLER & KELLY
Consulting Engineers

tel:(671)-472-6792

Suite 904, GCIC Building
414 West Soledad Avenue
Agana, Guam 96910, USA
fax:(671)-477-6229

By : BWS Date: 12AUG93 Client : DOE, GUAM
Project : Earthquake Damage Assessment

Sheet No. 3 of 4
Job No.

Damage Assessment for : C.L. TAITANO ELEMENTARY SCHOOL, SINAJANA

Executive Summary

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Exterior stair towers, 1st & 2nd grade wing, temporary-permanent wing.

(minor damage is typically cracking of beams, columns, infill panels and partitions)

No other areas of damage were observed.



Sen. Thomas V.C. Tanaka

RECEIVED

DOE
JUL 28 1993
DOE
BAC
DIRECTOR'S OFFICE

28 July 1993

Dr. Franklin Quitugua
Director
Department of Education
P.O. Box DE
Agana, Guam 96910

Dear Dr. Quitugua:

I understand that the Department of Education is redefining its school districts in a continuing effort to alleviate classroom overcrowding. The redistricting plan includes the transfer of 200 students from Finegayan Elementary to Upi Elementary. This, according to DOE officials, would alleviate Finegayan's overcrowding problem. While I commend DOE for attempting creative solutions, I am concerned that in its haste to solve problems at one school, it has ignored serious problems at another.

I am referring to concerns raised in a 1990 structural engineering study of 35 public schools and a 1993 Inspector General's Audit Report, both of which state very explicitly that Upi Elementary is structurally unsafe. The 1990 study recommends that 70% of Upi be demolished because it is in such disrepair. Both reports also highlighted other schools with similar structural problems.

I hope that prior to increasing enrollment or transferring students to Upi Elementary, DOE will make repairs to the school buildings so no one is endangered. As public officials, we must act responsibly and guard our public trust to provide safe and effective education for our children.

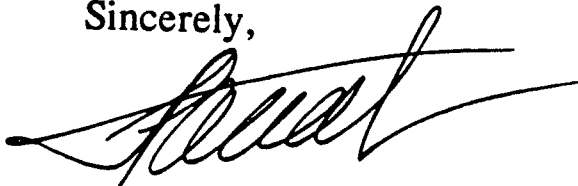
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Dr. Quitugua
28 July 1993
Page 2

Please inform me of any major structural improvements at Upi since the IG's audit was released in March or any plans to address the problems as referenced in both the 1990 report and the 1993 audit. If no work has been completed or planned, please let me know what alternative steps are being taken to ensure the student's safety. I would also like to know if the parents who are affected by their children's transfer are aware of the findings in both reports.

I look forward to an immediate response since school will be re-opening next month. I believe that you feel, as I do, that we must do everything possible to give the best education for our children. I am willing to work with you to solve this serious problem.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tanaka', with a long horizontal flourish extending to the right.

THOMAS V.C. TANAKA

TVCT/JDR:md



TWENTY-SECOND GUAM LEGISLATURE

155 Hesler Street
Agana, Guam 96910
Telephone: (671) 472-3416 / 7 / 8
Fax: (671) 477-1323

COPY

Sen. Thomas V.C. Tanaka

20 August 1993

**Dr. Franklin Quitugua
Director
Department of Education
P.O. Box ED
Agana, Guam 96910**

Dear Dr. Quitugua:

As I stated in my letter of July 28, I had serious reservations concerning the safety of our students and teachers after reviewing the 1990 structural engineering study contracted by DOE which indicates that at least nine of the thirty-five public schools had deteriorated to the point of becoming a safety hazard.

After the recent earthquake, Senators Unpingco, Brooks and I surveyed the damage of the schools identified in the 1990 report as critical as well as the other schools which reported serious damage. My previous concern about allowing our children and teachers to occupy these structures has only been confirmed by the damage I observed. I must therefore ask you to reconsider your decision to open all public schools for classes based solely on visual inspections conducted after the earthquake.

The safety of our students and teachers must be the first priority of the Department of Education. The earthquake may have served as a warning to us by exposing design and construction deficiencies in many DOE facilities. Undoubtedly, many structures have been weakened by the earthquake and its many after-shocks, but the true extent of damage to the schools cannot be determined solely by visual inspection. Therefore, it would not be prudent to conduct classes in those buildings which were previously determined to be structurally unsound or which show obvious earthquake damage until a thorough structural analysis can be conducted and certified, in writing, as safe to occupy.

I realize that there is already a shortage in classroom space, but for the safety of the students and teachers, DOE should make arrangements to accommodate all students in classrooms that are not of questionable structural integrity. Also, funding should be

Quitugua Letter
August 20, 1993
Page 2

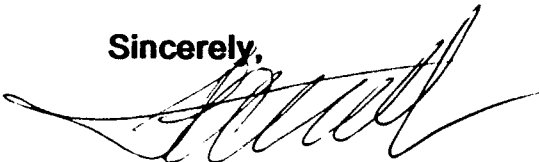
identified to conduct the structural analyses immediately, and the studies should be completed and officially certified for structural integrity before any person is allowed to use those facilities.

The Department of Education must take every precaution available to protect the safety of the students and to allay the justifiable concerns of their parents. Due to the urgency of this situation, DOE should make the completion of the necessary structural analyses its first priority and be ready to report on the progress made within two weeks from the start of classes.

Thank you for your attention to this matter. I look forward to your prompt response. I would also like to obtain a copy of the assessment reports from the three structural engineering firms contracted to make the initial assessments as well as their recommendations which were submitted to DOE's C.I.P. Administrator.

Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read 'T. Tanaka', with a long horizontal flourish extending to the left.

Thomas V.C. Tanaka

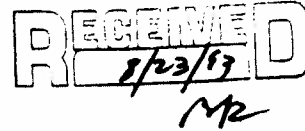


TWENTY-SECOND GUAM LEGISLATURE

155 H Street
Agana, Guam 96910
Telephone: (671) 472-3416 / 7 / 8
Fax: (671) 477-1323

COPY

Sen. Thomas V.C. Tanaka



23 August 1993

**Dr. Frankin Quitugua
Director
Department of Education
P.O. Box ED
Agana, Guam 96910**

Dear Dr. Quitugua:

I am deeply disappointed in your position not to conduct further testing on the public schools which have suffered extensive damage. It is the department of Education's obligation to ensure the safety of our children and to take every precaution to provide them with a safe and effective learning environment.

In this respect, all measures should be exhausted to identify funding for extensive structural analyses to be completed immediately so that we do not expose our children to further danger. Today marks the official opening of school and hundreds of children are being sent to schools which were identified as being structurally deficient even before the earthquake, and must have been further weakened by the quake and its aftershocks. In a August 17 memorandum to your office, the Department of Education's Capital Improvement Projects Administrator has indicated that visual inspections alone are not enough to determine the structural integrity of our schools and insists that structural analyses be conducted now.

In PL 21-136, you have been given the authority to enter into contract with any architectural and engineering firm to evaluate the conditions of DOE plant facilities, and make any necessary renovations, improvements, demolition, and construction of those plant facilities without the involvement of other Government of Guam departments or agencies. You have the sole authority to make the decision on conducting the structural engineering surveys. If the only issue is funding, you should exhaust every possible source within the Department of Education and the special funds. Nothing should take priority over the safety of our children. If still further funding is needed, you should come before the Legislature during the Special Session on August 25 and request an emergency appropriation for the surveys. Also, you should be prepared to account for the \$1 million which had been previously appropriated for such studies.

Quitugua Letter
August 23, 1993
Page 2

Dr. Quitugua, I would like to work with you to identify the funding necessary to conduct the structural analyses. Enclosed is a letter to Speaker San Agustin asking for his assistance in identifying available funds, should the money not be available through the Department of Education.

We should explore every avenue for funding and complete the surveys immediately.

Thank you for your attention and prompt response on this urgent matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Thomas V.C. Tanaka', written over a horizontal line.

Thomas V.C. Tanaka

enclosure

TVCT/JDR



consulting
engineers

Dean Gillham, President

August 22, 1993

The Honorable Governor Joseph F. Ada
Office of the Governor
Agana, Guam 96910

Re: Earthquake Damage Final Inspection
John F. Kennedy High School

Dear Governor Ada:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written or oral assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Thomas P. Camacho'.

Thomas P. Camacho, S.E.
Vice President

TPC/sjc

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitugua



consulting
engineers

~~Dear Gillham, President~~

August 22, 1993

The Honorable Governor Joseph F. Ada
Office of the Governor
Agana, Guam 96910

Re: Earthquake Damage Final Inspection
George Washington High School

Dear Governor Ada:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written or oral assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Thomas P. Camacho', written in a cursive style.

Thomas P. Camacho, S.E.
Vice President

TPC/sjc

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitugua



inc.

consulting
engineers

Dean Gillham, President

August 22, 1993

The Honorable Governor Joseph F. Ada
Office of the Governor
Agana, Guam 96910

Re: Earthquake Damage Final Inspection
L. P. Untalan Elementary School

Dear Governor Ada:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written or oral assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Thomas P. Camacho'. The signature is fluid and cursive, with a long horizontal stroke at the end.

Thomas P. Camacho, S.E.
Vice President

TPC/sjc

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitugua



inc.

consulting
engineers

~~Dean Gillham, President~~

August 22, 1993

The Honorable Governor Joseph F. Ada
Office of the Governor
Agana, Guam 96910

Re: Earthquake Damage Final Inspection
Simon Sanchez High School

Dear Governor Ada:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written or oral assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Thomas P. Camacho'. The signature is fluid and cursive, with a long horizontal stroke at the end.

Thomas P. Camacho, S.E.
Vice President

TPC/sjc

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitugua

GKE inc.

consulting
engineers

Dean Gillham, President

August 22, 1993

The Honorable Governor Joseph F. Ada
Office of the Governor
Agana, Guam 96910

Re: Earthquake Damage Final Inspection
Harmon Loop Elementary School

Dear Governor Ada:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written or oral assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Very truly yours,



Thomas P. Camacho, S.E.
Vice President

TPC/sjc

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitugua

GKE inc.

consulting
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Dean Gillham, President

August 22, 1993

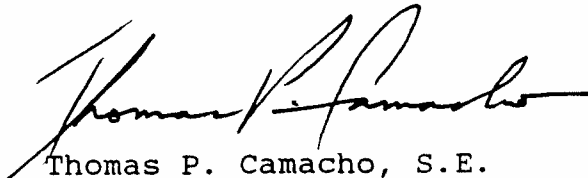
The Honorable Governor Joseph F. Ada
Office of the Governor
Agana, Guam 96910

Re: Earthquake Damage Final Inspection
J. Q. San Miquel Elementary School

Dear Governor Ada:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written or oral assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Very truly yours,



Thomas P. Camacho, S.E.
Vice President

TPC/sjc

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitugua

GKE inc.

consulting
engineers

Dear Gillham, President

August 22, 1993

The Honorable Governor Joseph F. Ada
Office of the Governor
Agana, Guam 96910

Re: Earthquake Damage Final Inspection
P.C. Lujan Elementary School

Dear Governor Ada:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written or oral assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Very truly yours,



Thomas P. Camacho, S.E.
Vice President

TPC/sjc

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitugua

WINZLER & KELLY

Suite 904, GCIC Building
414 West Soledad Avenue
Agana, Guam 96910 USA
Tel: (671) 472-6792, 472-6793
Fax: (671) 477-6229

Island Commercial Center
Middle Road, Gualo Rai
Caller Box PPP 596
Saipan, MP 96950
Telephone: (670) 234-0483
234-5392
Fax: (670) 234-5615

August 22, 1993

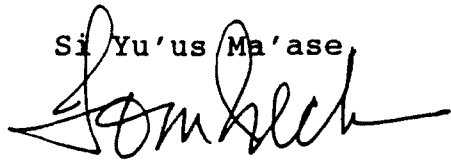
The Honorable Governor Joseph F. Ada
Governor of Guam

Re: Earthquake Damage Final Inspection - M. U. Lujan Elementary
School

Hafa Adai Governor:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Si Yu'us Ma'ase



Thomas P. Beck
Pacific Region Manager

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitigua

WINZLER & KELLY

Suite 904, GCIC Building
414 West Soledad Avenue
Agana, Guam 96910 USA
Tel: (671) 472-6792, 472-6793
Fax: (671) 477-6229

Island Commercial Center
Middle Road, Gualo Rai
Caller Box PPP 596
Saipan, MP 96950
Telephone: (670) 23+0483
23+5392
Fax: (670) 23+5615

August 22, 1993

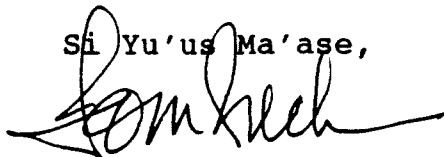
The Honorable Governor Joseph F. Ada
Governor of Guam

Re: Earthquake Damage Final Inspection - Carbullido Elementary
School

Hafa Adai Governor:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Si Yu'us Ma'ase,



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cc: Mr. Benigno Palomo
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Tel: (671) 472-6792, 472-6793
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Middle Road, Gualo Rai
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Saipan, MP 96950
Telephone: (670) 234-0483
234-5392
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August 22, 1993

The Honorable Governor Joseph F. Ada
Governor of Guam

Re: Earthquake Damage Final Inspection - LBJ Elementary School

Hafa Adai Governor:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Si Yu'us Ma'ase,



Thomas P. Beck
Pacific Region Manager

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitigua

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Suite 904, GCIC Building
414 West Soledad Avenue
Agana, Guam 96910 USA
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Island Commercial Center
Middle Road, Gualo Rai
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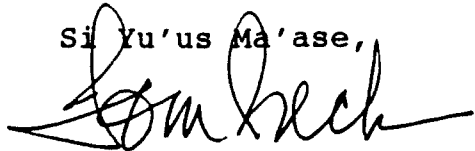
The Honorable Governor Joseph F. Ada
Governor of Guam

Re: Earthquake Damage Final Inspection - Piti Middle School

Hafa Adai Governor:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Sir Yu'us Ma'ase,



Thomas P. Beck
Pacific Region Manager

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitigua

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Suite 904, GCIC Building
414 West Soledad Avenue
Agana, Guam 96910 USA
Tel: (671) 472-6792, 472-6793
Fax: (671) 477-6229

Island Commercial Center
Middle Road, Gualo Rai
Caller Box PPP 596
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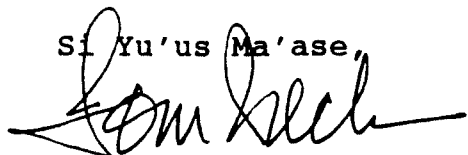
The Honorable Governor Joseph F. Ada
Governor of Guam

Re: Earthquake Damage Final Inspection - Inarajan High School

Hafa Adai Governor:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

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Pacific Region Manager

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitigua

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Suite 904, GCIC Building
414 West Soledad Avenue
Agana, Guam 96910 USA
Tel: (671) 472-6792, 472-6793
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Island Commercial Center
Middle Road, Gualo Rai
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Saipan, MP 96950
Telephone: (670) 234-0483
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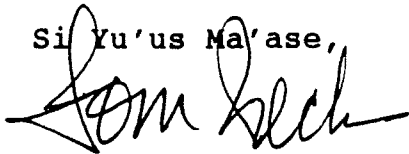
The Honorable Governor Joseph F. Ada
Governor of Guam

Re: Earthquake Damage Final Inspection - Agat Elementary School

Hafa Adai Governor:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Si Yu'us Ma'ase,



Thomas P. Beck
Pacific Region Manager

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitigua

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Suite 904, GCIC Building
414 West Soledad Avenue
Agana, Guam 96910 USA
Tel: (671) 472-6792, 472-6793
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Middle Road, Gualo Rai
Caller Box PPP 596
Saipan, MP 96950
Telephone: (670) 234-0483
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August 22, 1993

The Honorable Governor Joseph F. Ada
Governor of Guam

Re: Earthquake Damage Final Inspection - Talofof Elementary
School

Hafa Adai Governor:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Si Yu'us Ma'ase,



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Pacific Region Manager

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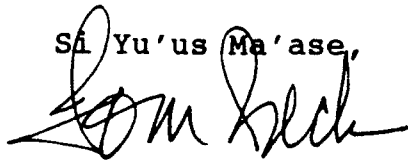
The Honorable Governor Joseph F. Ada
Governor of Guam

Re: Earthquake Damage Final Inspection - Merizo Elementary School

Hafa Adai Governor:

This structure has been inspected and no apparent structural hazards due to the August 8, 1993 earthquake are found to remain, except in those areas which we recommend be temporarily closed. All recommended repairs have been completed as intended by our written assessment. Based on our inspection, all areas of the school are usable and have been restored to their pre-earthquake usability and structural soundness, or have been properly barricaded and closed.

Sá Yu'us Ma'ase,



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Pacific Region Manager

cc: Mr. Benigno Palomo
Dr. Franklin J. A. Quitigua