HMC ARCHITECTS
3546 Concours Street
Ontario, California 91764

May 7, 2012

Inghram and Lytle Creek Elementary School
Richardson and Serrano Middle School
Miscellaneous Modernizations
Bid #F11-05
San Bernardino City Unified School District

Inghram Elementary School - DSA #04-106228	HMC #3137087
Lytle Creek Elementary School - DSA #04-106189, DSA #04-110479	HMC #3137111
Lytle Creek Elementary School Interim Housing - DSA #04-110479	HMC#3137111
Richardson Middle School - DSA #04-106249	HMC #3137113
Serrano Middle School - DSA #04-110922	HMC #3137187

ADDENDUM NO. 2

The following changes, additions, or clarifications have been made to the original approved project Documents and shall be incorporated in the Bidder's bid amount. The Bidder shall acknowledge receipt of the Addendum in the BID FORM. All other aspects of the work from the original Documents shall remain unchanged. In case of conflict between the Drawings and Specifications and this Addendum, this Addendum shall govern. The Bidders shall be responsible for transmitting this information to all affected subcontractors and suppliers prior to the closing of bids.

ADDENDUM NO. 1, PREVIOUSLY ISSUED

Item No. AD-2.1: Reference Addendum No. 1, Item No. AD-1.13.B

A. The Instructional Bulletin (IB) No. 37 dated January 23, 2012 and supporting letter (dated January 23, 2012) and revised Structural Observation Report and Proposed Testing Procedures for Existing Steel Modular Buildings dated September 7, 2010 (revised) are hereby issued.

HMC ARCHITECTS

By_____
Dan Benner, Principal-In-Charge

HMC

HMC Architects –3546 Concours Street, Ontario, CA91764-5583

PROJECT: San Bernardino City Unified School District
Group 9 Modernization

INSTRUCTION BULLETIN
DATE: 1/23/12

LOCATION:

☐ Inghram Elementary
1695 West 19th Street
San Bernardino, 92411
A#04-106228
3137111-000
IB _____
FCD _____
CD _____

☐ Lytle Creek Elementary
275 South K Street
San Bernardino, CA 92410
A#04-106189
3137113-000
IB _____
FCD _____
CD _____

☒ Richardson Prep
450 South K Street
San Bernardino, CA92410
A#04-106249
3137187-000
IB 37
FCD 23
CD NA

☐ Urbita Elementary
771 South "J" Street
San Bernardino, 92410
A#04-106245
3137120-000
IB _____
FCD _____
CD _____

☐ Serrano Middle
3131 Piedmont Drive
Highland, CA 92346
A#04-110922
3137087-200
IB _____
FCD _____
CD _____

TO:

DESCRIPTION OF WORK TO BE PERFORMED:

IB Item 37.1: **Refer to attached TTG "Proposed Test Procedures (E) Steel Modular Buildings Supplemental Report for Building F" dated January 23, 2012.**

In accordance with the procedures outlined in the above-referenced report, proceed with investigating and testing of the listed modular buildings F-1, F-2, and F-3.

This test procedures scope supersedes the direction given in IB #6/FCD #4 (attached for reference only) for the same Building F Modular Buildings.

Justification: Further clarification of scope for investigation and testing as defined in Section 01 45 23 – 3.05 Classroom Building Certification.

Requested by: District

Action to be Taken:

ACTION TO BE TAKEN:

ACT 1. Make the described change in the work at no change in the Contract Sum and no change in the Contract Time of Completion.

ACT 2. ***Make the described change in the work, with credit or cost for which will be determined in accordance with the General and Supplementary Conditions of the Contract.***

ACT 3. Promptly advice the Architect as to credit or cost proposed for the described change. This is not an authorization to proceed with the change.

File-IB.IB

HMC RCHITECTS

By: Timothy Morneau, AIA
Senior Project Manager

TTG
TMAD TAYLOR & GAINES

901 Via Piemonte
Suite 400
Ontario, CA 91764
(T) 909 477 6915
(F) 909 477 6916

ARIZONA
Scottsdale

CALIFORNIA
Anaheim
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WASHINGTON
Bellevue

FOUNDED 1955 55+ Years of Service

REVISED January 23, 2012

Mr. Timothy Morneau
HMC Architects
3546 Concours Street
Ontario, CA 91764

Project: Richardson Prep High School
San Bernardino Unified School District
TTG# P111776.00 (4404.039.01)

Reference: Proposed Test Procedures (E) Steel Modular Buildings
Supplemental Report for Building 'F'

Dear Tim:

This revised supplemental report for building 'F' is based on site observation of existing foundation system performed on November 15, 2011 by myself (Sidney Yuen) of our Ontario office. The foundation is continuous in the longitudinal direction only at the edge of each modular unit. This is different than the structural drawings prepared by King, Benioff, Steinmann, and King Consulting Engineers that show pier footings at interior and continuous footing around exterior perimeter. Also, the attachment of the unit to foundation is slightly different than as shown on the drawings.

Our recommendations are as follows to satisfy DSA requirements to obtain approval for use as classrooms.

1. Provide necessary paperwork for proof that these modular buildings were relocated from other sites which were approved by DSA. The District should have all the records.
2. Upon obtaining the above record of proof, investigate the following items at the foundation and their connections:
   a. Depth and width of footings.
   b. Core test concrete for compressive strength at locations indicated on attached plan(s). Provide test results for review. Removal and testing of concrete core samples shall be done in accordance with ASTM C42.
   c. Verify existing attachment of individual modular unit to foundation. Provide inspection to minimum of two (2) units. The inspection shall reveal the quantity, size, and quality of connection.
3. More inspections will be needed, where inspector determines the quality of the connection is unsatisfactory.

4. Provide us with all the above test results, so we can further evaluate the foundation and the connection.

An approved testing laboratory shall perform all testing in the presence of an IOR provided by the School District. The testing procedures as proposed above shall be reviewed by DSA prior to performing work.

If you have any questions, please feel free to contact me at (909) 942-5556, or our office at (909) 477-6915.

Sincerely,

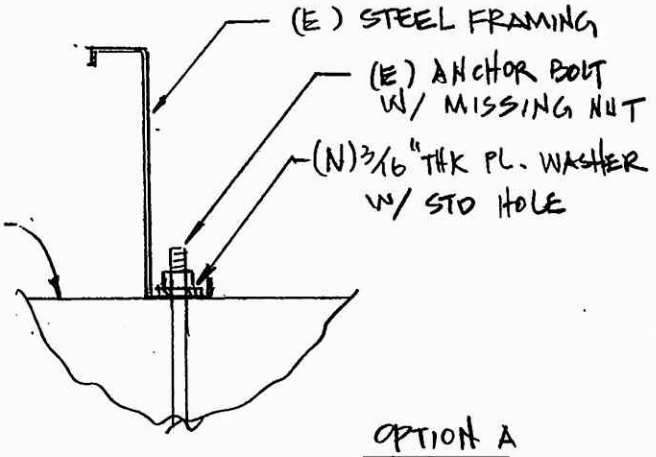
Sidney Yuen, P.E.
Project Manager, Structural

Enclosure: New repair detail for modular to foundation attachment.

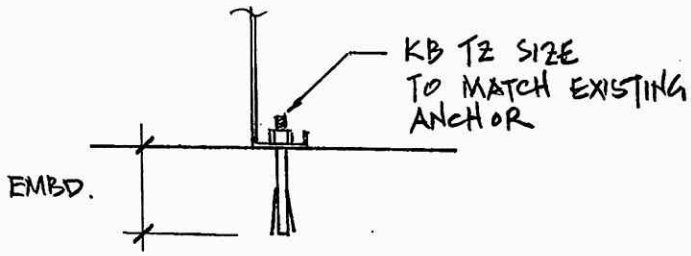
TTG TMAD TAYLOR & GAINES
STRUCTURAL MECHANICAL ELECTRICAL AND CIVIL ENGINEERS
Anaheim Austin Bellevue Dallas Inland Empire Pasadena
Phoenix San Antonio San Diego San Francisco Thousand Oaks Walnut Creek

RICHARDSON PREP HIGH SCHOOL

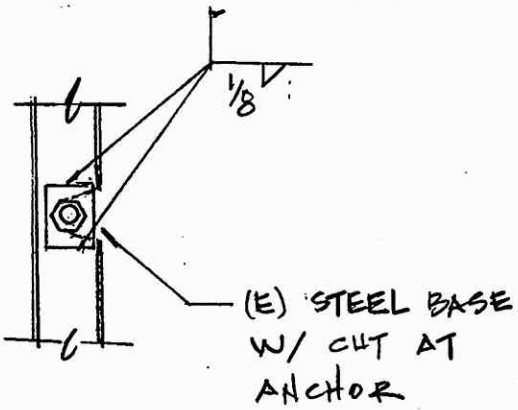
sheet 1 of 1
by SY
job no.
date 1-23-12



OPTION A



OPTION B



PLAN VIEW

SIZE	EMBD	TORQUE TEST FT-POUNDS
1/2	3 1/4"	40
5/8"	4"	60
3/4"	4 3/4"	110

REPAIR EXISTING MODULAR UNIT / FOUND. ATTACH. (A)

NOTE = OPTION B MAY BE USED FOR ANY UNSATISFACTORY ANCHOR OR MISSING ANCHOR

HMC

HMC Architects – 3546 Concours Street, Ontario, CA 91764-5583

PROJECT: San Bernardino City Unified School District
Group 9 Modernization

INSTRUCTION BULLETIN
DATE: November 12, 2010

LOCATION:

☐ Inghram Elementary
1695 West 19th Street
San Bernardino, 92411
A#04-106228
3137111-000
IB _____
FCD _____
CD _____

☐ Lytle Creek Elementary
275 South K Street
San Bernardino, CA 92410
A#04-106189
3137113-000
IB _____
FCD _____
CD _____

☒ Richardson Middle
450 South K Street
San Bernardino, CA 92410
A#04-106249
3137187-000
IB 6
FCD 4
CD _____

☐ Urbita Elementary
771 South "J" Street
San Bernardino, 92410
A#04-106245
3137120-000
IB _____
FCD _____
CD _____

☐ Serrano Middle
3131 Piedmont Drive
Highland, CA 92346
A#04-110922
3137087-200
IB _____
FCD _____
CD _____

TO:

DESCRIPTION OF WORK TO BE PERFORMED:

IB Item 6.1: **Refer to attached TMAD "Structural Observation Report and Proposed Test Procedures for (E) Steel Modular Buildings" dated June 30, 2005, revised September 7, 2010:**

In accordance with the procedures outlined in the above-referenced report, proceed with investigating and testing of the listed modular buildings E-1, E-2, E-3, E-4, F-1, F-2, and F-3.

The table indicating the torque testing values shall only apply to any replacement expansion anchors that are to be installed based on the provisions given in the reports. Existing anchor bolts that are deemed adequate per the visual observation of the IOR shall not require torque testing.

Justification: Further clarification of scope for investigation and testing as defined in Section 01 45 23 – 3.05 Classroom Building Certification.

Requested by: Architect

Action to be Taken: **ACT 1**

APPROVED
DIV. OF THE STATE ARCHITECT

AC ___ F/LS ___ SS JMC
A#04 106249 DATE 12/6/10

ACTION TO BE TAKEN:

ACT 1. ***Make the described change in the work at no change in the Contract Sum and no change in the Contract Time of Completion.***

ACT 2. Make the described change in the work, with credit or cost for which will be determined in accordance with the General and Supplementary Conditions of the Contract.

ACT 3. Promptly advice the Architect as to credit or cost proposed for the described change. This is not an authorization to proceed with the change.

File-IB.IB

HMC ARCHITECTS

By: Timothy Morneau, AIA
Senior Project Manager

APPROVED
DIV. OF THE STATE ARCHITECT
AC ___ F/LS ___ SS JMC
A#04-106249 DATE 12/6/10

TMAD TAYLOR &GAINES

STRUCTURAL MECHANICAL ELECTRICAL AND CIVIL ENGINEERS

Anaheim Ontario Pasadena Phoenix Riverside San Diego San Francisco Thousand Oaks

June 30, 2005
Revised September 7, 2010

HMC Group
3546 Concours Street
Ontario, CA 91764

Attention: Timothy Morneau

Reference: Richardson Prep High School
San Bernardino City Unified School District
San Bernardino, California
T&G Project No: 4404.039

Subject: STRUCTURAL OBSERVATION REPORT AND PROPOSED TEST PROCEDURES (E) STEEL MODULAR BUILDINGS

On December 16, 2004 David Parrone, of our Thousand Oaks office, made a site visit to perform an observation of the existing seven (7) modular classrooms to verify their existing structural condition. The survey was based on a visual observation at the perimeter of each of the classrooms. There was no destructive testing or removal of any portions of the exterior surfaces to make this visual observation.

Results of the visual observation were the same for all of the existing modular classrooms as follows:

Based on the observation, all of the existing 7 modular classrooms appear to be in good condition and have no apparent structural damage or deterioration. The walls and roof framing had no visible structural defects and the wall framing appeared to be firmly attached to the existing foundation. See the following table for detailed identification information of each of the modular classrooms.

Classroom #	A- #
E-1	29238
E-2	29238
E-3	29238
E-4	29238
F-1	30980
F-2	30980
F-3	30980

APPROVED
DIV. OF THE STATE ARCHITECT
AC ___ F/LS ___ SS JMC
A#04-106299 DATE 12/6/1

280 North Westlake Blvd., Suite 210, Thousand Oaks, CA 91362 (805) 418-9929 Fax (805) 418-9930 www.tmadtg.com

TMAD TAYLOR & GAINES

Our recommendations are as follows to satisfy DSA requirements to obtain approval for use as classrooms.

1. Provide necessary paperwork for proof that these modular buildings were relocated from other sites which were approved by DSA. The district should have all the records.
2. Upon obtaining the above record of proof, investigate the following items at the foundation and their connections:
    a. Depth and width of footings at bearing walls as indicated on attached plan(s).
    b. Core test concrete for compressive strength at locations indicated on attached plan(s). Provide test results for review. Removal and testing of concrete core samples shall be done in accordance with ASTM C42. Results shall also include slab/stem thickness.
    c. Verify anchor bolt size and spacing at all bearing walls. This will require the removal of wall surfaces to make this visual observation.
    d. Verification of anchor bolts embedment by use of non-destructive test (NDT) methods such as use of a pachometer at two (2) locations at the perimeter footing with the locations to be determined at the discretion of the Inspector of Record (IOR).
3. Where the visual observations of the foundations indicate that there are missing anchor bolts, expansion anchors shall be installed at such locations per the attached details.
4. Provide us with all the above test results, so we can verify that the foundation and the connections were constructed in accordance with the aforesaid construction documents.

An approved testing laboratory shall perform all testing in the presence of an IOR provided by the school district. The testing procedures as proposed above shall be reviewed by DSA (Eric Wu) prior to performing the work.

If you have any questions, please feel free to contact our office at (805) 418-9929.

Sincerely,

David Parrone, P.E.
Project Engineer

Saurin Chakrabarti, S.E.
Vice President

Attach: T&I Sheet
Site Plan w/test locations
Concrete Core & Patch Detail
Expansion Anchor Installation Details (3)

APPROVED
DIV. OF THE STATE ARCHITECT
AC ___ F/LS ___ SS JMC
A#04-106249 DATE 12/6/10

TESTING LABORATORY: _____ DATE: 06/30/05,Rev.8/5/10

NAME: Richardson Prep High School

DISTRICT/OWNER: San Bernardino City USD

DIVISION-FILE NO.: _____ APPLICATION NO.: 29238, 30980

ARCHITECT: HMC Architects

STRUCTURAL ENGINEER: Saurin Chakrabarti / Project No. 4404.039

STATE OF CALIFORNIA
DEPT. OF GENERAL SERVICES
DIVISION OF THE
STATE ARCHITECT

STRUCTURAL TESTS AND INSPECTIONS

SSS 103-1 (R 9/9-I)

The following tests and inspections, as checked, will be required as detailed in applicable specifications.

	CONCRETE	GUNITE	GROUT	MORTAR	
COMPACTED FILL					Test of aggregates for mix design only
Fill Materials, acceptance tests					Suitability tests of aggregates as detailed below
Compaction control, continuous					Mix designs
Compaction test only as ordered					Continuous batch plant inspection
Bearing capacity of compacted fill					Inspect placing
REINFORCING STEEL					Sample
Sample and test bar steel					Compression tests Of Cores
Sample and test mesh	X				Pick up samples at job
Inspect placing at job					Deliver sample forms at jobsite
STRUCTURAL STEEL					Sample and test cement
Sample and test as detailed below					
Shop fabrication inspection					
Field erection inspection					
Inspection of welds – Shop					
Inspection of welds – Field					
Inspection of riveting or bolting – Shop					
Inspection of riveting or bolting – Field					
Sample and test high strength bolts and washers					
BRICK AND BLOCK					
Sample and test					
Test only					
Inspection of placing					
Core drill samples					
GLUE LAMINATED STRUCTURAL LUMBER					
Fabrication inspection					
Sample and test steel accessories					
Inspect fabrication of steel accessories					

SUITABILITY TESTS	CONCRETE MATERIALS	GUNITE	MORTAR	GROUT
Sodium sulfate				
Structural strength				
Los Angeles rattler				
Clay (Hydrometer method)				
Reactivity tests				
Volume Change				

MIX DESIGNS: CONCRETE, GROUT, MORTAR OR GUNITE

MATERIAL	MAXIMUM SIZE	COMPRESSIVE STRENGTH, PSI, MINIMUM	
		7 Day	28 Day

List of structural steel members to be tested:

(Is this list continued on reverse: ☐ *Yes* ☒ *No)*

Other Tests and Inspections, together with special instructions:

Torque tests at replacement expansion anchors.

Note: Details of tests are indicated in Test Procedures Report

(Are these instructions continued on reverse: ☐ *Yes* ☒ *No)*

Copies of Reports to:

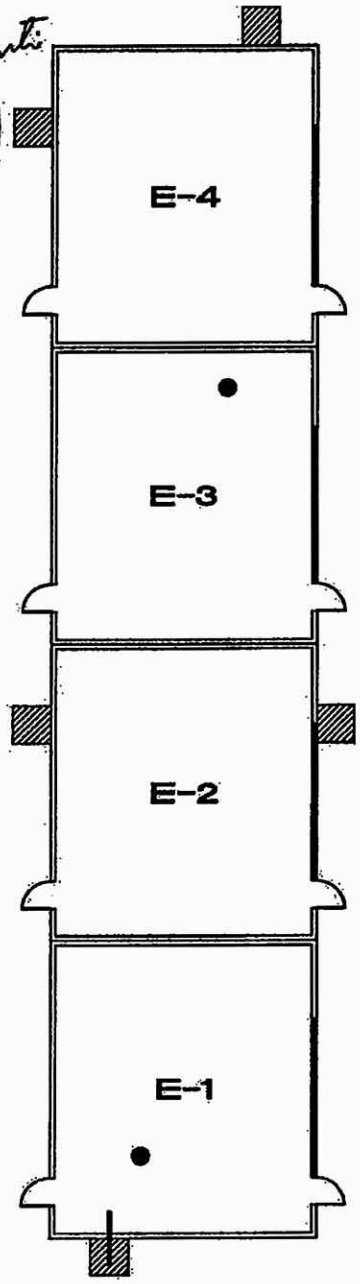
Architect
Contractor
Inspector Of Record
School District
Testing Laboratory
Structural Engineer
Division Of State Architect

By: Saurin Chakrabarti S3659
AUTHORIZED REPRESENTATIVE

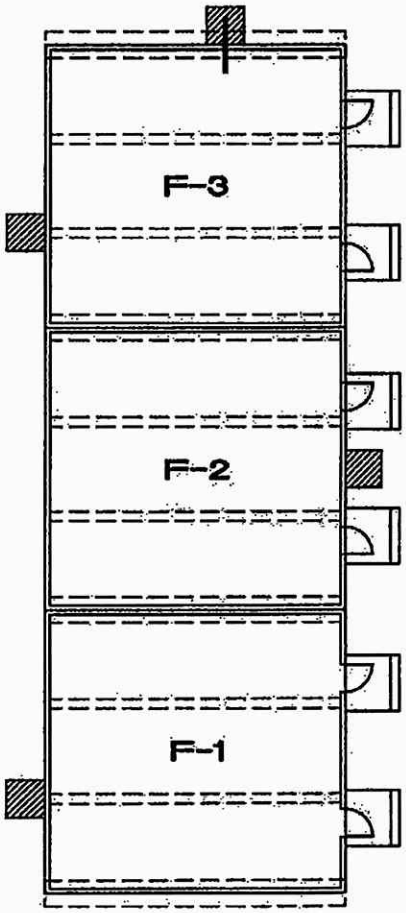
REGISTERED PROFESSIONAL ENGINEER
SAURIN CHAKRABARTI
No. S 3659
Exp. 6-30-11
STRUCTURAL
STATE OF CALIFORNIA

TORQUE TESTING VALUES •	
A.B. SIZE	FOOT - POUNDS
1/2"ϕ	65
3/4"ϕ	175

• ONLY APPLICABLE TO EXPANSION ANCHORS UTILIZED AS REPLACEMENT ANCHORS



RICHARDSON ◀N



RICHARDSON ◀N

APPROVED
DIV. OF THE STATE ARCHITECT
AC — F/LS SS JMC
A#04-106249 DATE 12/6/10

EXCAVATION - FOUNDATION INSPECTION AND CORE DRILL FOOTING OR STEM

EXCAVATION - FOUNDATION INSPECTION

● CORE DRILL SLAB/FTG

NOTE: SEE ATTACHED 'CONCRETE CORE + PATCH DETAIL' FOR CORING INFORMATION

TMAD TAYLOR &GAINES
• STRUCTURAL
• MECHANICAL
• ELECTRICAL
• CIVIL
280 North Westlake Blvd., Suite 210
Thousand Oaks, California 91362
(805) 418-9929 Fax (805) 418-9930

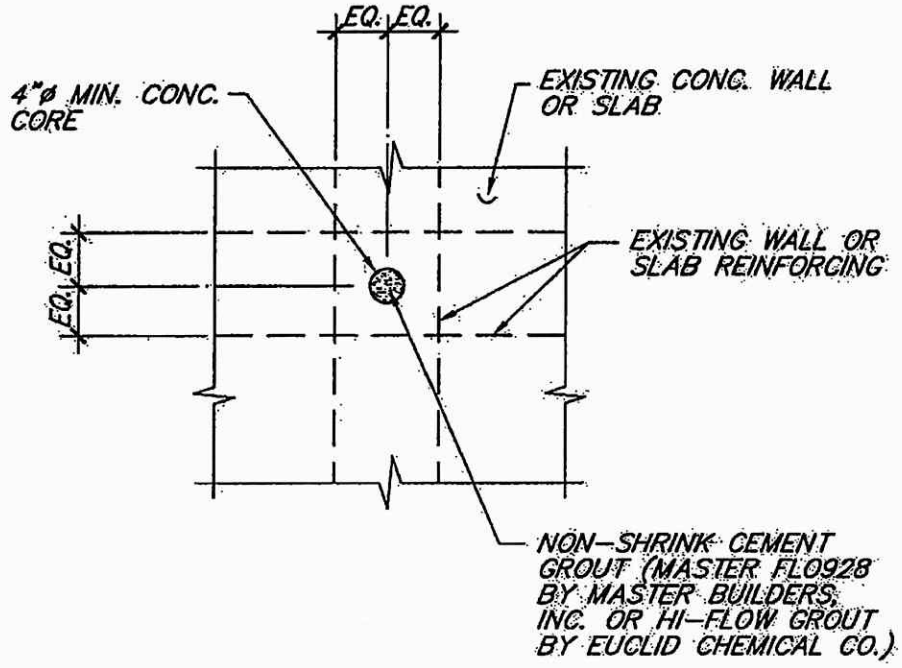
SUBJECT Steel Modular Recertification

PROJECT Richardson Prep High School

PROJECT # 4404039 SHEET # 1 of 5

DATE 09-07-10 DRAWN BY CC CHECKED BY DP SCALE None

REGISTERED PROFESSIONAL ENGINEER
SAURIN CHAKRABORTTI
No. S 3659
Exp. 6-30-11
STRUCTURAL
STATE OF CALIFORNIA



PLAN OR ELEVATION

NOTES:

1. BEFORE CORE DRILLING, USE PACHOMETER TO CHECK REBAR LOCATIONS. THE CONCRETE CORES SHALL NOT BE TAKEN AT THE REINFORCING LOCATIONS.
2. REPAIR CORE HOLE BY INFILLING NON-SHRINK GROUT WITH MINIMUM STRENGTH OF 3000 PSI.
3. LOCATION OF CONCRETE CORES IN WALLS OR SLABS REFERS TO EXHIBIT B.
4. ROUGHEN ALL SURFACES TO 1/8" AMPLITUDE MINIMUM PRIOR TO GROUTING.

APPROVED
DSA OF THE STATE ARCHITECT
AC F/LS SS JMC
A#04-106299 DATE 12/6/10

TMAD TAYLOR &GAINES
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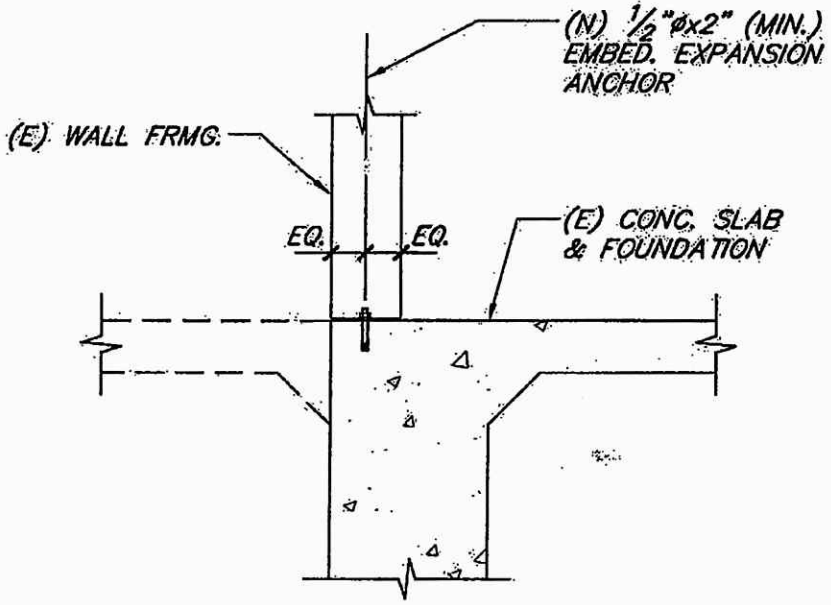
• MECHANICAL
• ELECTRICAL
• CIVIL
280 North Westlake Blvd., Suite 210
Thousand Oaks, California 91362
(805) 418-9929 Fax (805) 418-9930

SUBJECT Concrete Core & Patch Detail
PROJECT Richardson Prep High School
PROJECT # 4404039 SHEET # 2 of 5
DATE 09-07-10 DRAWN BY CC CHECKED BY DP SCALE None

REGISTERED PROFESSIONAL ENGINEER
SAURIN CHAKRABARTI
No. S 3659
Exp. 6-30-11
STRUCTURAL
STATE OF CALIFORNIA



NOTES:

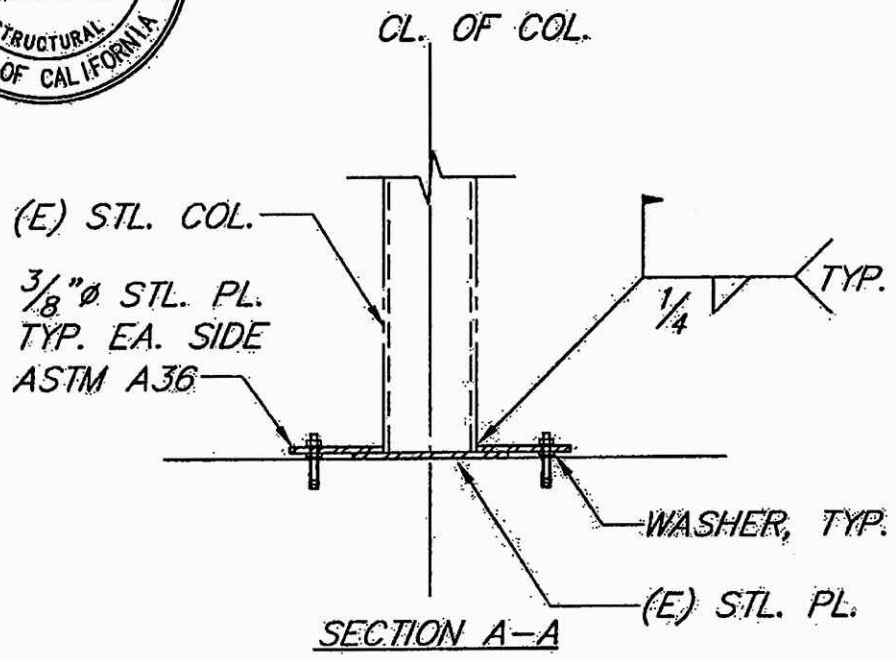
1. EXPANSION ANCHOR SHALL BE HILTI 'KB-TZ' (ICC ESR-1917) TO BE INSTALLED AS A REPLACEMENT FOR MISSING ANCHOR BOLT @ (E) WALL FRAMING WHERE OCCURS SUBSEQUENT TO VISUAL OBSERVATION PERFORMED UNDER DIRECT SUPERVISION OF THE IOR.
2. DETAIL AS INDICATED SHALL ALSO APPLY TO CONNECTION OF (E) WALL FRAMING ON CONCRETE STEM WALL, IF APPLIES.
3. SEE SHEETS 4 AND 5 FOR ADDITIONAL CONDITIONS AS APPLICABLE.
4. SEE SHEET 1 FOR TORQUE TESTING VALUES FOR (N) EXPANSION ANCHORS.

APPROVED
DIV. OF THE STATE ARCHITECT
AC ___ F/LS ___ SS JN/CL
A#04-106249 DATE 12/6/10

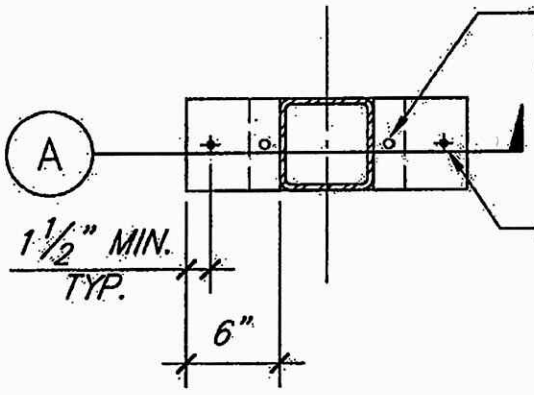
TMAD TAYLOR &GAINES
• STRUCTURAL
• MECHANICAL
• ELECTRICAL
• CIVIL
280 North Westlake Blvd., Suite 210
Thousand Oaks, California 91362
(805) 418-9929 Fax (805) 418-9930

SUBJECT Expansion Anchor Installation Detail
PROJECT Richardson Prep High School
PROJECT # 4404039 SHEET # 3 of 5
DATE 09-07-10 DRAWN BY CC CHECKED BY DP SCALE None

REGISTERED PROFESSIONAL ENGINEER
SAURIN CHAKRABARTI
No. S 3659
Exp. 6-30-11
STRUCTURAL
STATE OF CALIFORNIA



SECTION A-A



PLAN VIEW

APPROVED
DIV. OF THE STATE ARCHITECT
AC ___ F/LS ___ SS ___
A#04-106249 DATE 12/6/10

NOTE:

SEE SHEET 1 FOR TORQUE TESTING VALUES FOR (N) EXPANSION ANCHORS.

TMAD TAYLOR &GAINES
• STRUCTURAL
• MECHANICAL
• ELECTRICAL
• CIVIL
280 North Westlake Blvd., Suite 210
Thousand Oaks, California 91362
(805) 418-9929 Fax (805) 418-9930

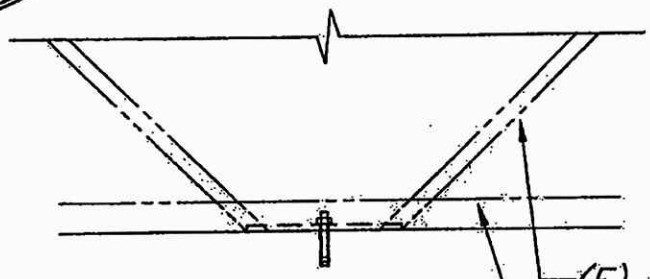
SUBJECT Steel Plate Column Anchorage Detail

PROJECT Richardson Prep Elementary School

PROJECT # 4404039 SHEET # 4 of 5

DATE 09-07-10 DRAWN BY CC CHECKED BY DP SCALE None

REGISTERED PROFESSIONAL ENGINEER
SAURIN CHAKRABARTI
No. S 3659
Exp. 6-30-11
STRUCTURAL
STATE OF CALIFORNIA



(E) BRACING, TYP.

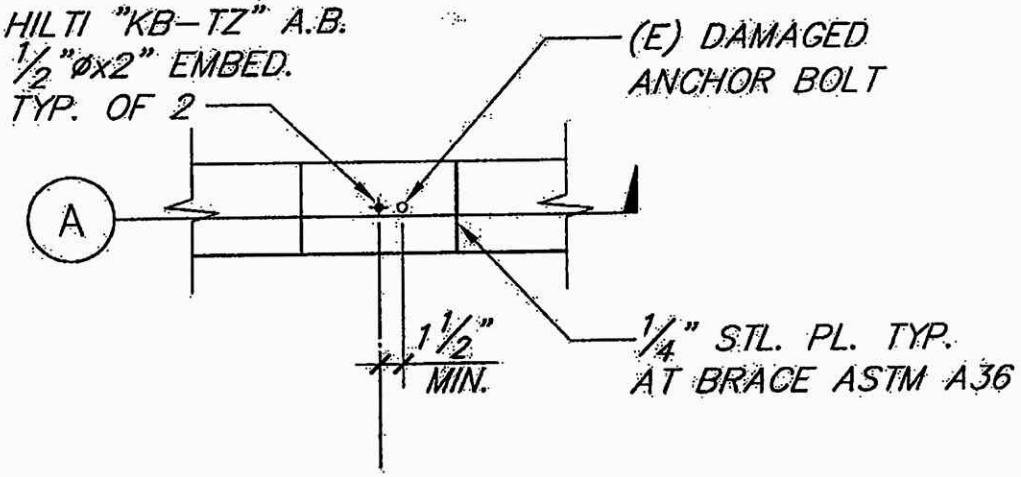
(E) CHANNEL, TYP.

APPROVED
DIV. OF THE STATE ARCHITECT

AC F/LS SS JMC

A#04-106249 DATE 12/6/10.

SECTION A-A



PLAN VIEW

NOTE:

SEE SHEET 1 FOR TORQUE TESTING VALUES FOR (N) EXPANSION ANCHOR.

TMAD TAYLOR &GAINES
• STRUCTURAL
• MECHANICAL
• ELECTRICAL
• CIVIL
280 North Westlake Blvd., Suite 210
Thousand Oaks, California 91362
(805) 418-9929 Fax (805) 418-9930

SUBJECT Wall Brace Anchorage Detail

PROJECT Richardson Prep Elementary School

PROJECT # 4404039 SHEET # 5 of 5

DATE 09-07-10 DRAWN BY CC CHECKED BY DP SCALE None

Division of the
State Architect
CALIFORNIA DEPARTMENT OF GENERAL SERVICES

Division of the State Architect
San Diego Regional Office
10920 Via Frontera, Suite 300 - San Diego, CA 92127
(858) 674-5400 • Fax (858) 674-5471 • www.dsa.dgs.ca.gov

ADDENDUM, CHANGE ORDER, DRAWING, DEFERRED APPROVAL WORKSHEET AND TRANSMITTAL MEMO

SSS 143-1 (Revised 12/06)

File Number: **36-55** | Application: **04- 106249**

Job **RICHARDSON PREP HIGH SCHOOL** — **HMC# 3137187-000**

Change Order No.	Addendum No.	Deferred Submittal	Clarifications	Field Change Document	Other
				4	

List of Material Received: **11/16/2010**

Resubmit:

Amount of Change:

$

A. Master Copy: **(3) COPIES**

B. Copies:

C. Tracing(s) each — of Sheet(s) Number(s)

D. Print(s) each — of Sheet(s) Number(s)

E.

F.

RECEIVED
DEC 10 2010
HMC Group
DSA Dept.

List of Material Approved:

List of Material
☒ Sent
☐ Handed
☐ Faxed

DEC - 8 2010

To: ☒ Architect ☐ Structural Engineer

Company: **HMC ARCHITECTS**

Attention: **ALONDRA LOPEZ**

Item:

Copies:

3546 CONCOURS STREET
ONTARIO, CA 91764-5583
Phone # (909) 989-9979 Fax# (909) 945-6889

Remaining Requirements:

☐ None

☐ Corrections Required ☐ **Change Order Required**

If Corrections are required, please submit the following:

1. Intact marked up check set.
2. This transmittal memo.
3. Two corrected copies of submittal.
4. Calculations and other back-up information.
5. Drawings bearing preliminary approval stamps to avoid re-review whenever possible.

Remarks:

Notes for Clerical Use Only: **CH**

☐ Please Make File Copy of: _____

☐ Extend Plans and Specs Approval to Cover: _____

☐ Revised Plans and Specs. ☐ Other: _____

☐ Additional: Plans and Specs Scope Increase: _ Type of Approval: _____

	SSS JACK COHEN	FLS ~~Not Required~~	ACS ~~Not Required~~
Checked by:			
Approved by:			
Date:	12/6/10		