

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

SSS 143-1 (R 5/87) 8-23-91

For All Transactions Involving Field Work,
Route Material as Follows:

✓ RB Field Engineer _____ Clerical Unit

File 15-6
Application 51474

Job

Roosevelt School

Change Order Number _____ Addendum Number _____ Deferred Submittal _____ Other Inc Co

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Checked by SSS _____ SFM Not Required ACS Not Required
Approved by Victor M. Rables
Date 9-21-91

STRUCTURAL CALCULATIONS

PROJECT DESCRIPTION:

JOB NO. : 88107 (BFGC NO. 88-142)
NAME : ROOSEVELT SCHOOL MODERNIZATION
ADDRESS : BAKERSFIELD, CA.

PREPARED FOR:

BFGC, INC.
5701 TRUXTUN AVE., SUITE 200
BAKERSFIELD, CA. 93309-0608

STRUCTURAL ENGINEER:

JOHN Q. FORESTELLE
STRUCTURAL ENGINEER
1414 VALHALLA DRIVE
BAKERSFIELD, CA 93309
(805) 833-4311

MODIFIED ROOF UNIT SUPPORT PLATFORM B.13.91



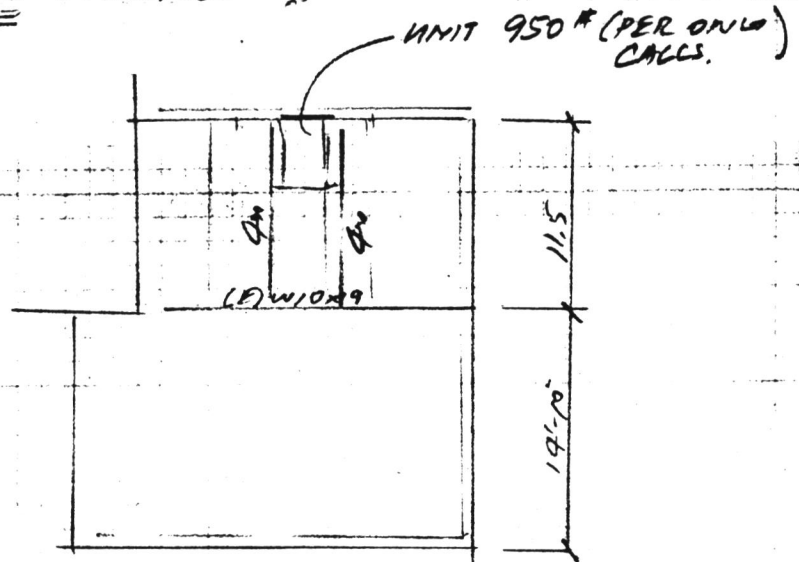
Subject

JOHN Q. FORESTELLE
STRUCTURAL ENGINEER

1414 VALHALLA DRIVE
BAKERSFIELD, CALIFORNIA 93309
(805) 833-4311 FAX (805) 833-4314

Job No. 88107
Sheet No. 1 of 1
Date 8.13.91
By JOF

ROOF UNIT & STAFF DINING "MODIFIED"



BY PASS (E) DOUBLE ROOF
FRAMING BY HAVING THE
NEW PLATFORM SPAN 11'-6"
BTWN THE (E) STEEL BEAM
& THE (E) BRICK WALL.

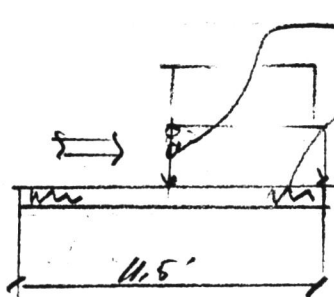
PLAN

4
17

$$2-4 \times 8 \quad T_A = 25.4$$

$$S = 30.66$$

$$I = 111$$



$$\frac{950 \#}{2} = 475$$

$$W = (15 + 20)(8') = 280 \#$$

$$FLY \quad T_M = 280(11.5)^2/8 = 4,637$$

$$+ 475(11.5)/4 = 1.36 \quad \} = 6.0 \#$$

$$f_b = \frac{6.0(12)}{2(30.66)} = 1.17 < 1.15(1.50)$$

1.72 OR

$$A = \frac{6.0(11.5)^2}{9.45(2 \times 111)} = 1.38 \rightarrow 4365 \text{ GROSS}$$

USE 2-4x8 12L.
2x8 @ 24" TYP.
SPANNING 11'-6"
FOR PLATFORM FRAMING
TO SUPPORT NEW
EQUIP.

NOTE (E) W10x9
WAS PREVIOUSLY
EMBEDDED (NO
SIGNIFICANT CHANGE
OR

Subject

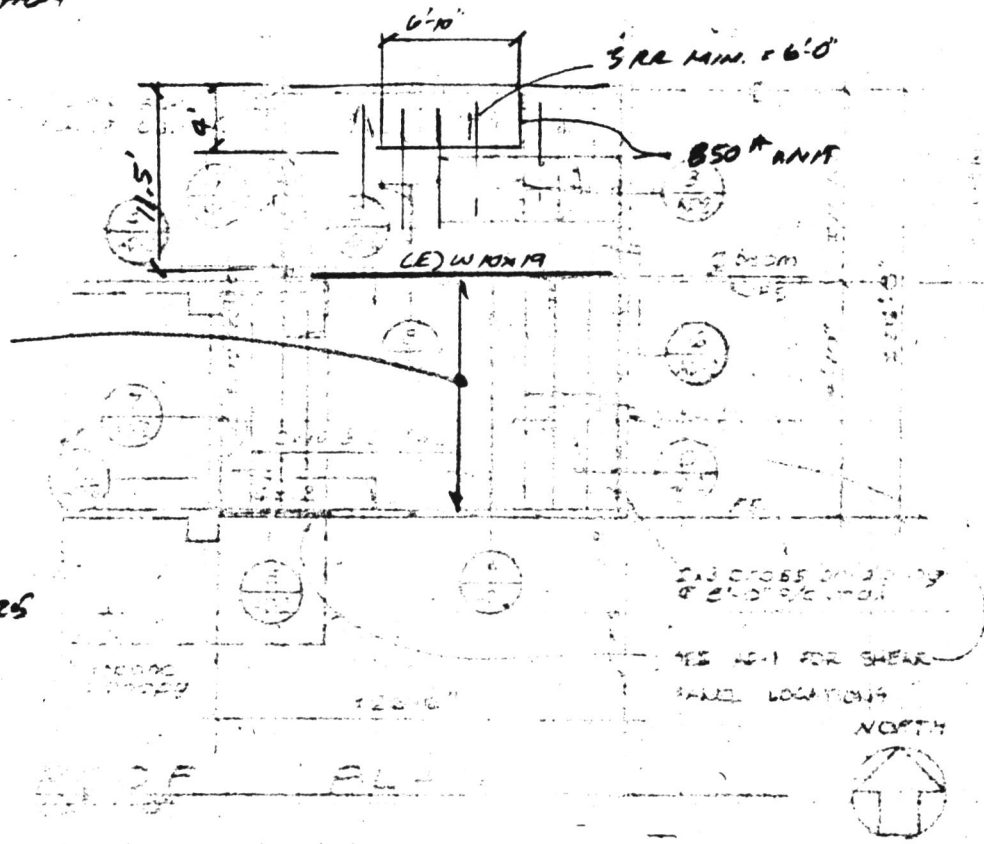
JOHN Q. FORESTELLE
STRUCTURAL ENGINEER

920 WIBLE ROAD BAKERSFIELD
CALIFORNIA 93304 (805) 397-7800

Job No. 88107
Sheet No. 6
Date 1-9-89
By JQP

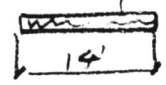
APPROVED CALLS FROM ORIGINAL SUBMITTAL

RE UNIT @ STAFF DINING
NEW CLG & INSULATION



5021.4
2x10 @ 24" NEW CLG
W = 2
W_{DL} = 220 } 22

MA = $\frac{0.22(14)^2}{8} = .539$
 $\frac{2 \times 2'0.4}{1079 \text{ R}}$

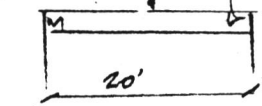


$f_b = \frac{1.079(12)}{21.9} = .605 < 1.25$ OK

USE (E) 2x10 @ 24"
W/ NEW CLG.
NO STRENGTHENING

(E) STEEL BEAM (W10x19)

UNIT = 850
PLAT #100
.95"
P = $\frac{950(4)}{12} = 317$



$\frac{4.88}{.16} = 5.02$

(E) COL & FRG
OR (NOMINAL
INCREASE IN LOAD)
= 3%

T.A = 270' LL = 16%
W_{DL} = $\frac{22}{2}(20) = 220$
LL = (11) (16) = 176 } 486%

(E) W10x19 → A = 5.62
S = 18.8
I = 96.3

FLEX → MA = $\frac{317(20)}{4} = 1.59$
 $= \frac{486(20)^2}{8} = 24.3$ } 25.9

$f_b = \frac{25.9(12)}{18.8} = 16.5 < 1.6(36) = 21.6$ OK

ADD 2" CLG & INSUL
 $\frac{38}{32}(16.5) = 19.6 < 20.25$ OK

6 1/2% INCREASE (NOMINAL)

ASSUME IT HAS TESTED

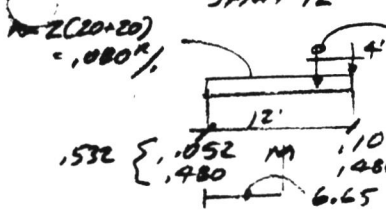
USE (E) W10x19
STEEL BEAM (NEW CLG OK)

(E) 2x10 @ 24"
SPAN 12'

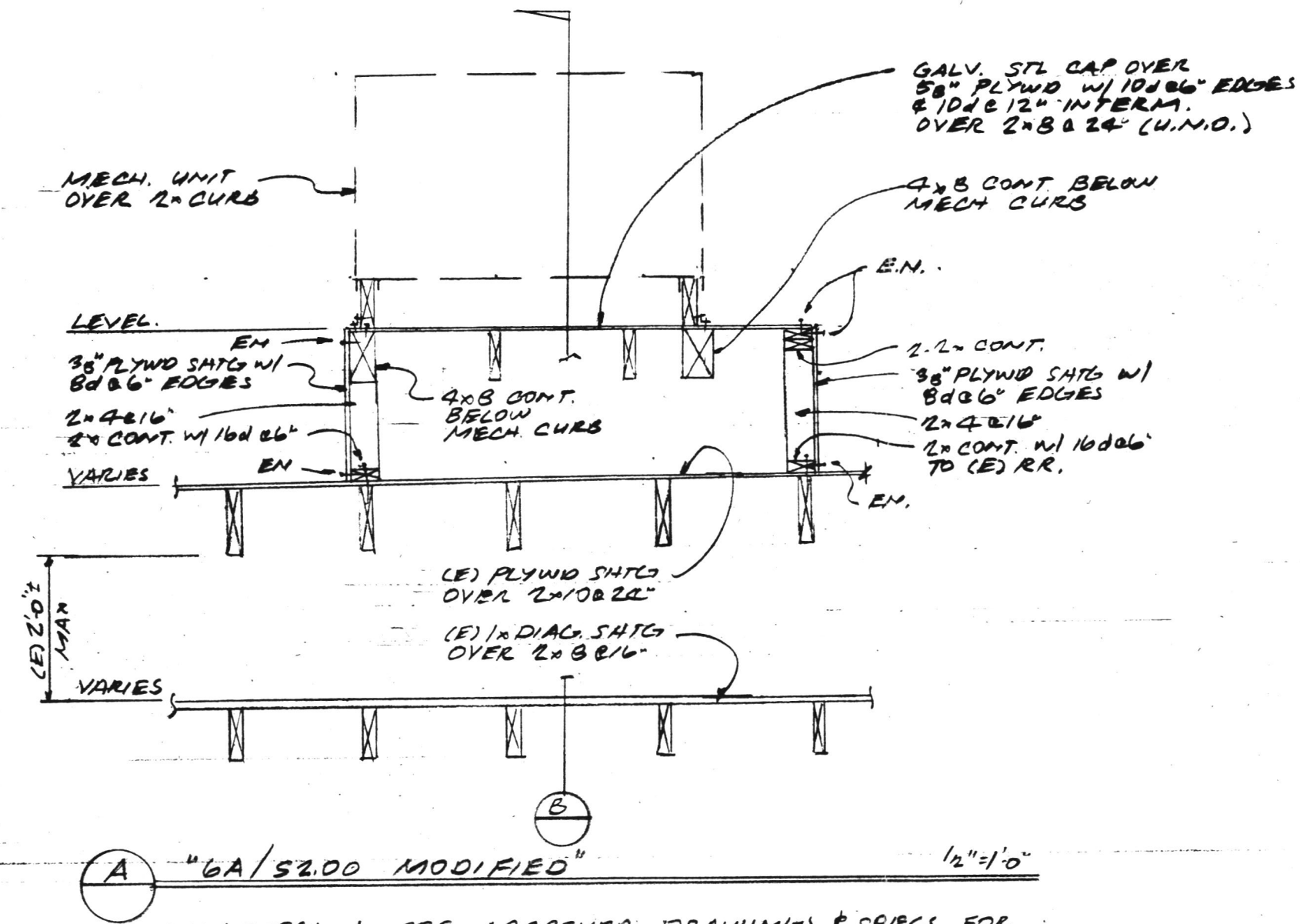
(E) 2x10 @ 24" → 72' > 40' } or - 32' @ LEFT.
 $\frac{4}{200} = 1.98 > 1.40$

$\frac{950}{2(2 \text{ JOISTS})} = 150$ M = 1.769
2x10 → $f_b = .990 < 1.25$ OK

ADD 2" CLG & INSUL
 $\frac{43}{40}(.990) = 1.04$ OK



USE (E) 2x10 @ 24"
TO SUPPORT UNIT
NO STRENGTHENING
REQ. (NEW CLG OK)



- NOTES:**
1. SEE APPROVED DRAWINGS & SPECS FOR LOCATION & ITEMS NOT SHOWN.
 2. ALL NEW WOOD FRAMG SHALL BEAR DIRECTLY ON (E) WOOD SHTG OR FRMG. REMOVE (E) ROOFING & NON-STRUCTURAL ITEMS AS REQ FOR NEW WORK.

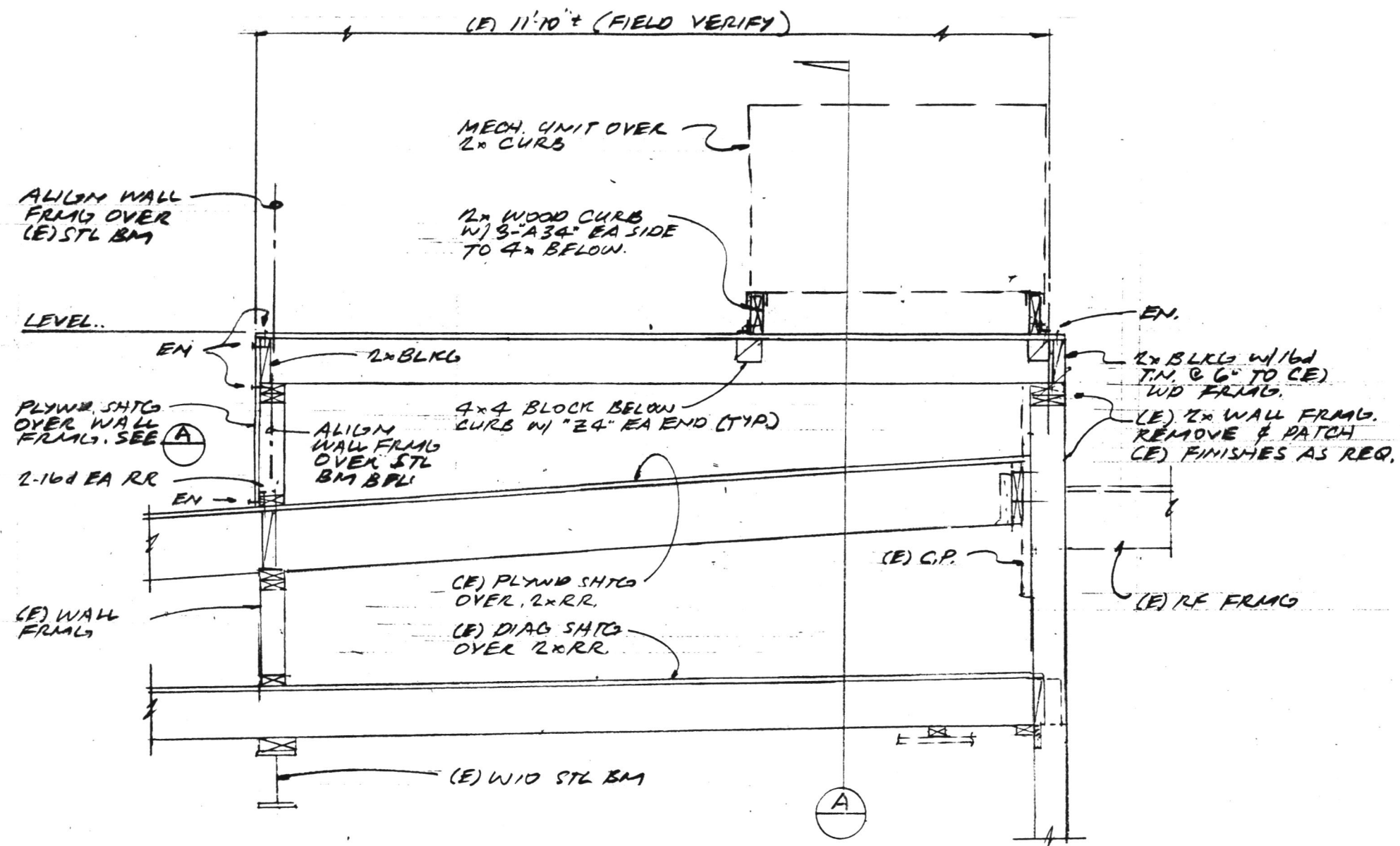
bfgc architects planners inc.
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 863 pacific street
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 805 846 0433

david r. carroll, a.l.a. principal architect
 frank a. glenn, a.l.a. principal architect
 mark madden, a.l.a. principal architect
 william r. hundert, a.l.a. principal architect

ROOSEVELT SCHOOL MODERNIZATION



JOB NO.	
DATE	



B "6/S2.00 MODIFIED" 1/2"=1'-0"
 NOTES 1. SEE **A** FOR NOTES.

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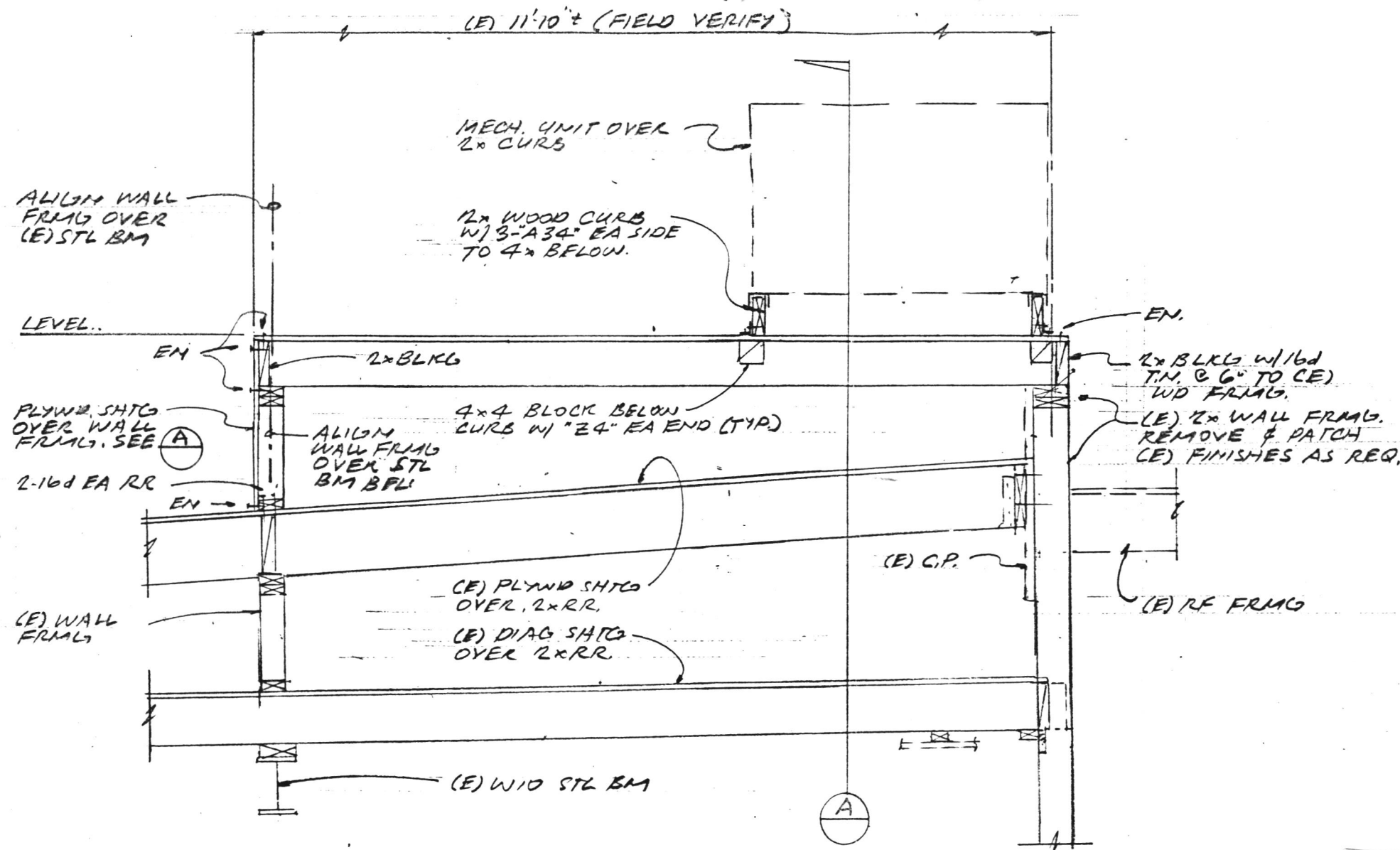
David F. Arnold, AIA, principal architect
 Frank A. Ghazal, AIA, principal architect
 Mark Engler, AIA, principal architect
 William R. Koster, AIA, principal architect

0-884 0-312 0-881 0-878

ROOSEVELT SCHOOL MODERNIZATION



JOB NO.	
DATE	



B "6/S2.00 MODIFIED" 1/2"=1'-0"
 NOTES 1. SEE A FOR NOTES.



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 Frank A. Ghazal, AIA, principal architect
 Mark Engelen, AIA, principal architect
 William R. Luquet, AIA, principal architect

Dr. Cartnal
 0-312 0-301 0-376

Office of the State Architect
 Structural Safety Section

51474

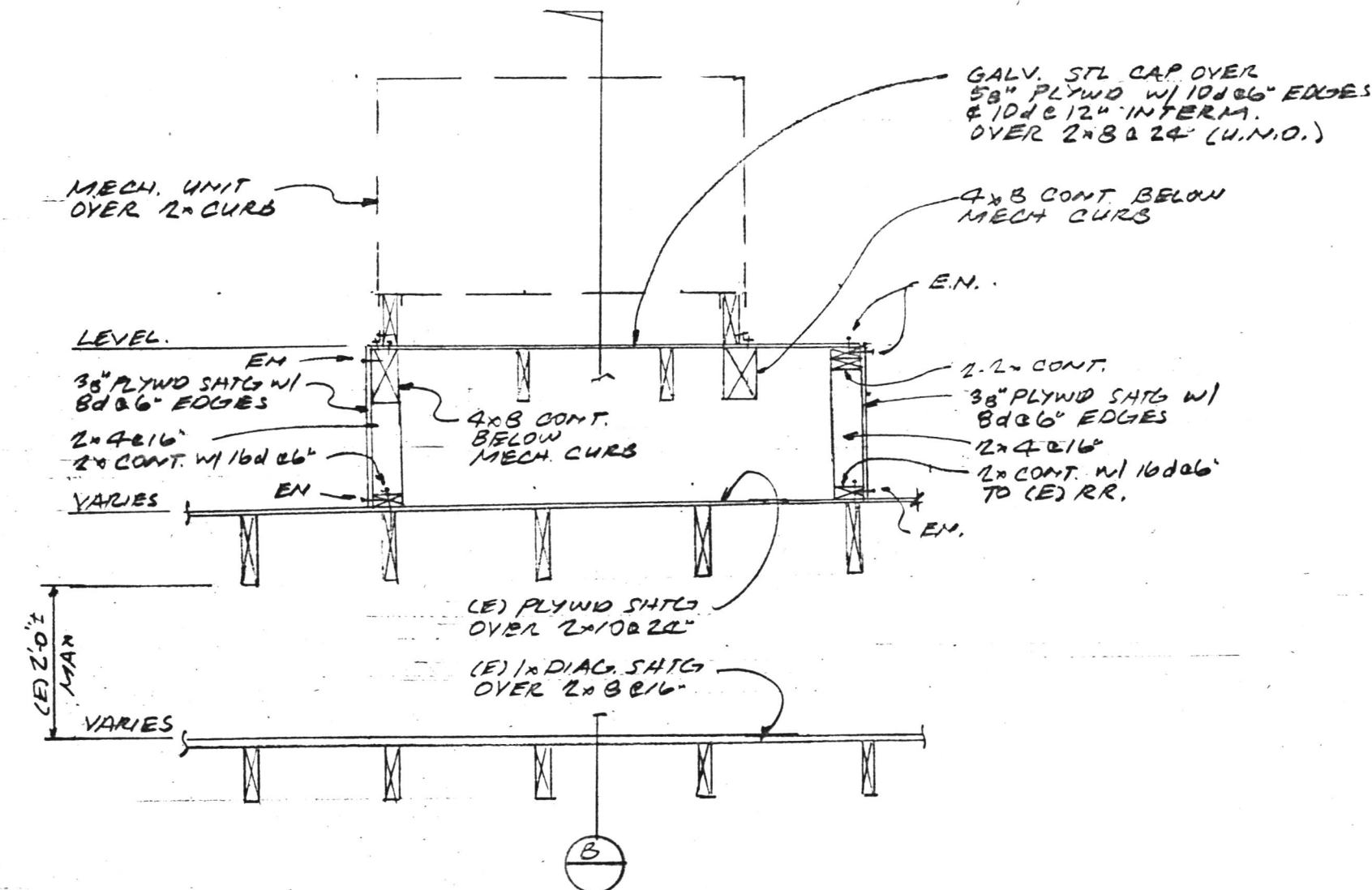
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 A Change Order is Required
 By V&V Date 9-21-91



BUDG 100 MECHANICAL PLATFORM
 ROOSEVELT ELEM. MODERNIZATION
 BAKERSFIELD CITY SCHOOL DISTRICT
 OSA FILE NO. 15-6 OSA AFFILIATION NO. A-51474

JOB NO.
 88-142
 DATE
 15AUG91

PK
 P



A "GA/S2.00 MODIFIED" 1/2"=1'0"

- NOTES:**
1. SEE APPROVED DRAWINGS & SPECS FOR LOCATION & ITEMS NOT SHOWN.
 2. ALL NEW WOOD FRMG SHALL BEAR DIRECTLY ON (E) WOOD SHTG OR FRMG. REMOVE (E) ROOFING & NON-STRUCTURAL ITEMS AS REQ FOR NEW WORK.

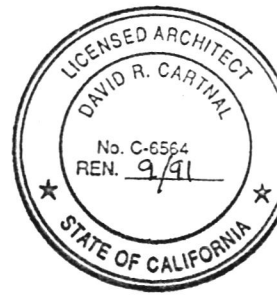
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David R. Cartmel, A.E.
 Frank A. Ghazal, A.E.
 Mark Angolan, A.E.
 William R. Tondel, A.E.

principal architect
 principal architect
 principal architect
 principal architect

D.R. Cartmel



Office of the State Architect
 Structural Safety Section

51474

PRELIMINARY APPROVAL ONLY
 A Change Order is Required

By V.R./V Date 9-21-91



BUDG 100 MECHANICAL PLATFORM

ROOSEVELT ELEM. MODERNIZATION
 BAKERSFIELD CITY SCHOOL DISTRICT

CSA FILE NO. 15-6 OSA APPLICATION NO. A-51474

JOB NO.
 88-142

DATE
 15AUG91

SK
 10

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

SSS 143-1 (R 5/87)

7-27-91

For All Transactions Involving Field Work,
Route Material as Follows:

VR

Field Engineer

Clerical Unit

File

15-6

Application

51474

Roosevelt School

Change Order Number	Addendum Number	Deferred Submittal	Other
			pu Co

LIST OF MATERIAL RECEIVED:

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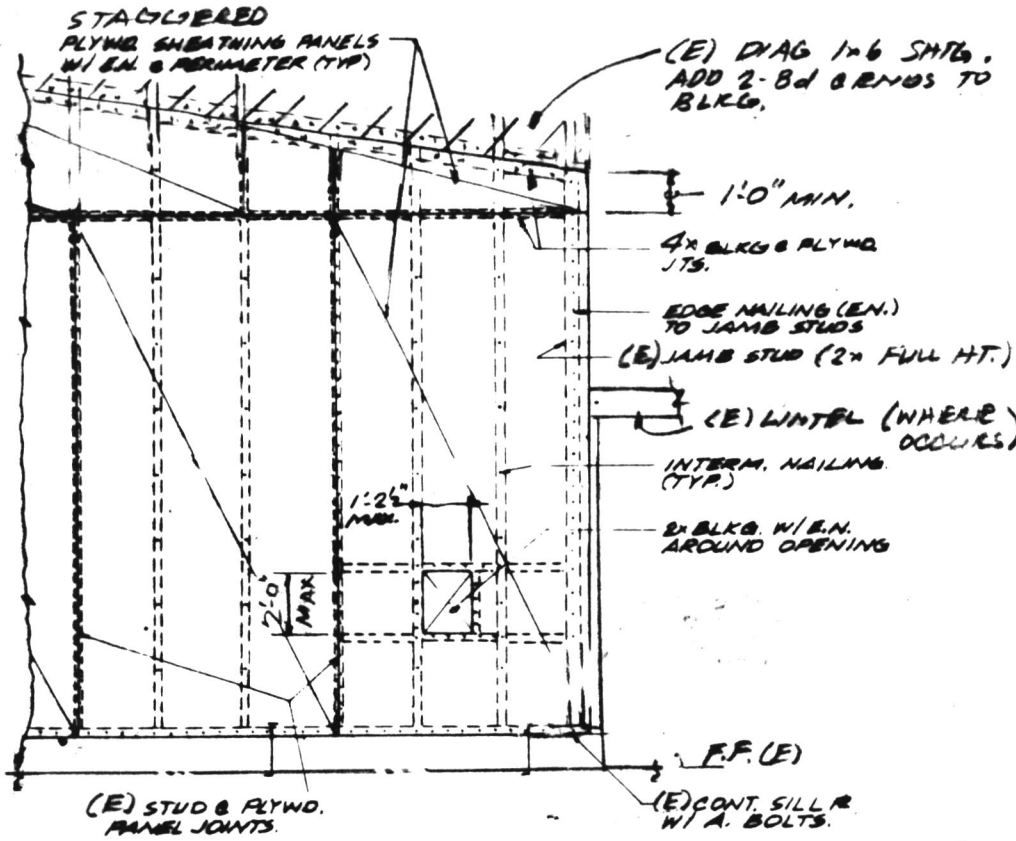
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<input type="checkbox"/> Revised PLS	
<input type="checkbox"/> Additional PLS (Scope Increase: _____)	Type of Approval: _____

Checked by	SSS <i>Chappin</i>	SFM <input checked="" type="checkbox"/> Not Required	ACS <input checked="" type="checkbox"/> Not Required
Approved by	<i>Chappin</i>		
Date	7-31-91		



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David R. Forest, AIA, Principal Architect
 Frank A. Hertz, AIA, Principal Architect
 Mark A. Hertz, AIA, Principal Architect
 William J. Hertz, AIA, Principal Architect

0-8884 0-3122 0-8021 0-8702

SHEAR PANEL DETAILS

NOTES

1. PLYWG SHTG SHALL BE 3/4" THICK, APA RATED SHTG, 40/20, EXPOSURE I, W/ 10d @ 6" O.C. EDGES & BOUND. & 12" O.C. IN FIELD. 10d NAILS SHALL BE .148" Ø x 2 3/8" LONG MIN.
2. PLYWG SHTG (AS SHOWN ABOVE) SHALL BE INSTALLED IN ROOMS 401, 402, 501 & 502 WHERE 1x DIAG. SHTG HAS BEEN REMOVED.
3. WHERE DRIVING NAILS CAUSES SPLITTING, LEAD HOLES WITH A DIAMETER OF 60 TO 70 PERCENT OF THE NAIL DIAMETER SHALL BE PROVIDED.

Office of the State Architect
 Structural Safety Section

51474

PRELIMINARY APPROVAL ONLY
 A Change Order is Required

By cc/lp Date 7-31-91



ROOSEY
 # RR107

RM. 401, 402, 501 & 502 SHTG. CLARIFICATION

ROOSEVELT ELEMENTARY SCHOOL MOD.

BAKERSFIELD CITY SCHOOL DISTRICT

2324 VERDE STREET
 BAKERSFIELD, CA

O.S.A. APPLICATION NO. A-51474
 O.S.A. FILE NO. F-15-6

JOB NO.
88-142

DATE
 7-19-91

SK
7

JOHN Q. FORESTELLE

STRUCTURAL ENGINEER

1414 VALHALLA DRIVE
BAKERSFIELD, CALIFORNIA 93309
(805) 833-4311 FAX (805) 833-4314

TO: BFGC, INC.

Received

JUL 19 1991

B.F.G.C.

ATTENTION: BRUCE BIGGAR.

DATE: 7.18.91

SUBJECT: ROOSEVELT SCHOOL.

88/07

REMARKS: SITE VISIT 7.18.91 (w/ BILL THREIST & POLLY HANSLIN)

1. CE) EXPOSING SHELF IN ROOMS 401, 402, 501 & 502 HAS BEEN REMOVED TO EXPOSE CE) STUDS. (SEE KEY NOTE 701 ON SHEET A7.00.) THE CE) SHEAR CAPACITY OF THE WALL NEEDS TO BE PUT BACK. ~~SEE SHEET 701~~ ~~TO~~ PLEASE REVIEW, APPROVE & FORWARD THE ATTACHED "SHEAR PANEL DETAIL" TO OSA FOR PERM. APPROVAL.

- PLEASE CALL IF YOU HAVE QUESTIONS.

BY: JOHN.

COPIES TO:

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

SSS 143-1 (R 5/87) 9-21-91

For All Transactions Involving Field Work,
Route Material as Follows:

Jm Field Engineer _____ Clerical Unit

File 15-6
Application 57474

Job <u>Roosevelt Elem.</u>			
Change Order Number	Addendum Number	Deferred Submittal	Other <u>pru Co</u>

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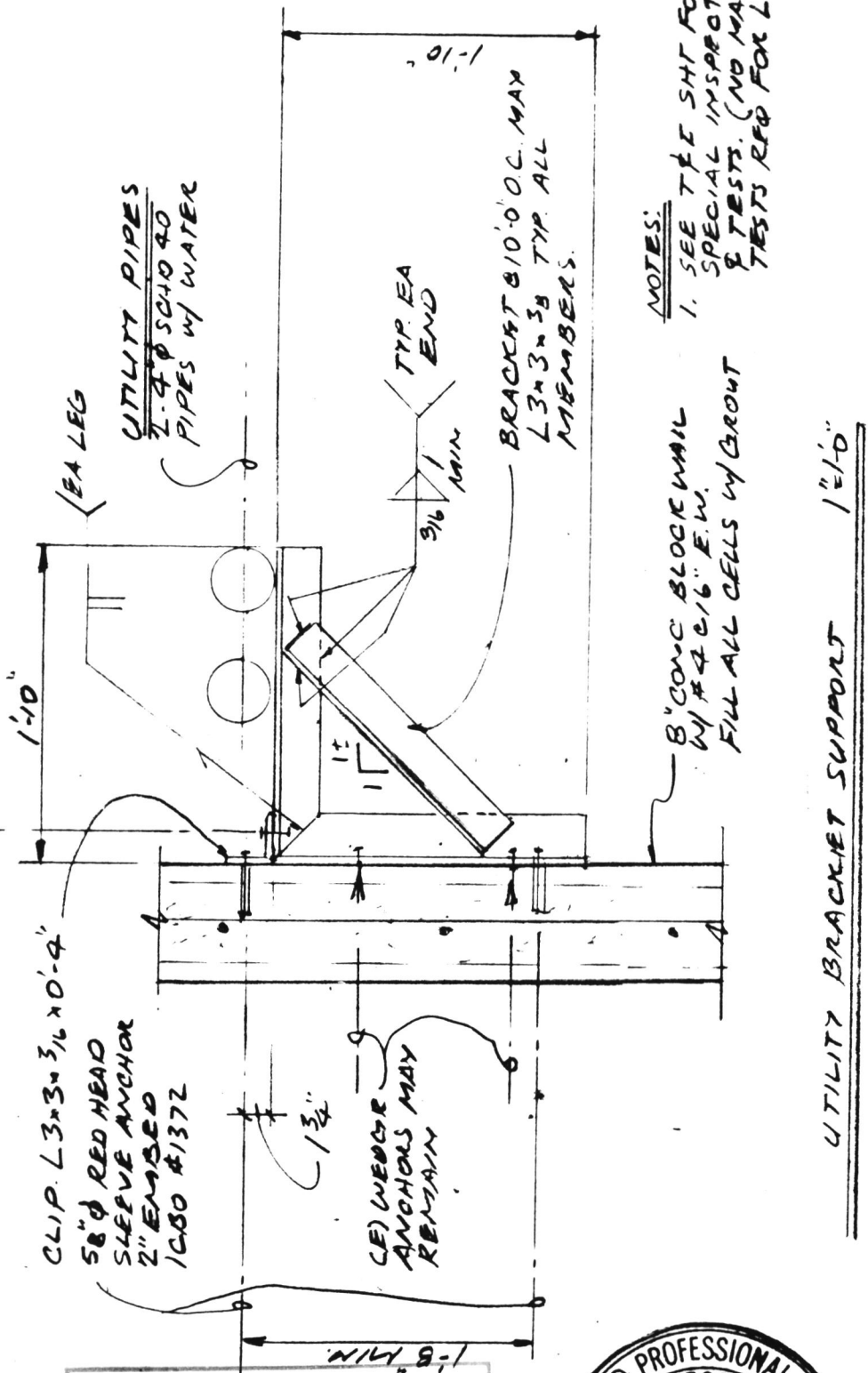
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<input type="checkbox"/> Change Order Required	Covering Material Rec'd: _____ Date(s) _____
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Checked by	SSS	SFM <input checked="" type="checkbox"/> Not Required	ACS <input checked="" type="checkbox"/> Not Required
Approved by	<u>Victor M. Polak</u>		
Date			

1/2" ϕ BOLT (DRILL BOLT HOLE - DO NOT BURN.)



CLIP L3x3x3/16 x 0'-4"
5/8" ϕ RED HEAD SLEEVE ANCHOR 2" EMBEDDED 1050 #1372

CE WEDGE ANCHORS MAY REMAIN

BRACKET 8' 0" O.C. MAX L3x3x3/16 TYP ALL MEMBERS.

8" CONC BLOCK WALL W/ #4 @ 16" E.W. FILL ALL CELLS W/ GROUT

NOTES:
1. SEE T&E SHIT FOR SPECIAL INSPECTIONS & TESTS. (NO MATERIAL TESTS REF FOR L3x3)

UTILITY BRACKET SUPPORT 1'-10"

Office of the State Architect
Structural Safety Section

51474

PRELIMINARY APPROVAL ONLY
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By *JG/D* Date 10-16-91



bfgc

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Frank A. Ghazal, AIA, Principal Architect
Mark Angelen, AIA, Principal Architect
William R. Touzel, AIA, Principal Architect

0-8864 0-3132 0-8881 0-8788

PIPING SUPPORT BRACKET

ROOSEVELT ELEMENTARY MODERNIZATION

BAKERSFIELD CITY SCHOOL DISTRICT

OSA APPLICATION NO. 51474 OSA FUE NO. 1576

JOB NO. 88-142
DATE 13SEP91

SK 12

#88/07

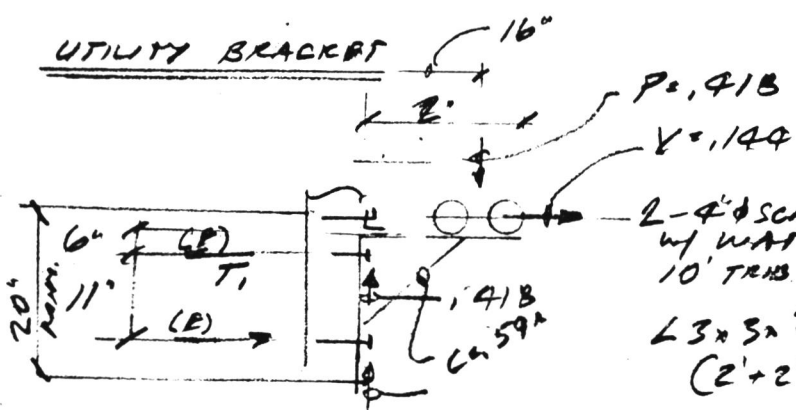
ROOSEVELT
BRACKET
STRENGTHENING

JOHN Q. FORESTELLE
STRUCTURAL ENGINEER

1414 VALHALLA DRIVE
BAKERSFIELD, CALIFORNIA 93309
(805) 833-4311 FAX (805) 833-4314

Job No. 88107
Sheet No. 1 of 1
Date 9-13-91
By JQF

USE (2) L3x3x3/8 BRACKET
ADD L3x3x3/8 CLIP @
TOP W/ 1/2" BOLT &
5/8" SLEEVE ANCHOR
& CLIP & BOLT
20" APART MIN.



2-4" SCAFFOLD W/ WATER 10' TRIS LENGTH } (2(16.4)(10)) = 328'
L3x3x3/8 BRACKET (2'+2'+1.5')(7.2) = .040
MISC = 10'(5) = .050
.418k

I
LAT LOAD = 1.15(3)(.418) = .144

TRY 1 1/2" RFD HEAD SLEEVE ANCHOR
T_{AN} = (.80)(.555) = .444
V_{AN} = (.80)(1.000) = .800

T = .418(16)/11 = .606 } = .905 > .444k
(.43)(.144(17")/11") = .297 } NO
(1/3 UNLIFT

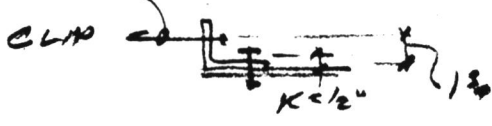
TRY 5/8" RFD HEAD SLEEVE ANCHOR
T_{AN} = .80(.770) = .616 < .905 NO
.80(1.61) = 1.218

ADD CLIP @ T & NEW ANCHOR @ BOTT

T = .418(16)/20 = .334 } .526k DFL + RFD
+ .43(.144) = .192 } .334k D+L
V = .418k TOTAL
OR .209k RA ANCHOR

TRY 5/8" SLEEVE @ TOP W/ CLIP & BOLT.

.526 + .209 = 1.02 > 1.0 BY 2%
1.616 1.218 OK
T = .526k .85 + .17



L3x3x3/8x3/4
M = .526(1.25) = .65k
A = sqrt(.65(66)/27(4)) = 1.907, 875" BY 1/2 OK

L3x3x3/8
C = .59k -> F_u = .59 / 2.11 = .280k21
O.K.

W/PLD 3" MIN W/PLD RA CONN. -> V_{AN} = 5(270)(50%) = 4.17 >> .59
142

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

SSS 143-1 (R 5/87)

8-8-91
7-29-91

CKR L.I.

For All Transactions Involving Field Work,
Route Material as Follows:

Field Engineer RR Clerical Unit _____

File 15-6

Application _____

Job Roosevelt School 51474

Change Order Number _____ Addendum Number #4 Deferred Submittal _____ Other P.C.O

LIST OF MATERIAL RECEIVED:

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F. _____

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ALL SK-8

LIST OF MATERIAL

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Items BFGC
Copies _____
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REMAINING REQUIREMENTS:

Copies _____
of Print(s) Each _____ of Sheet(s) Number(s) _____
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 Change Order Required Covering Material Rec'd: _____ Date(s) _____
Remarks: ALL SK-8

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 Revised PLS
 Additional PLS (Scope Increase: _____ Type of Approval: _____)

Checked by SSS L. I. IANCO APPROVED Not Required ONLY ACS Not Required
Approved by Victor Rolles JUL 29 1991 State Fire Marshal SOUTH 7/31/91
Date 8-8-91

COPY

bfgc

88107

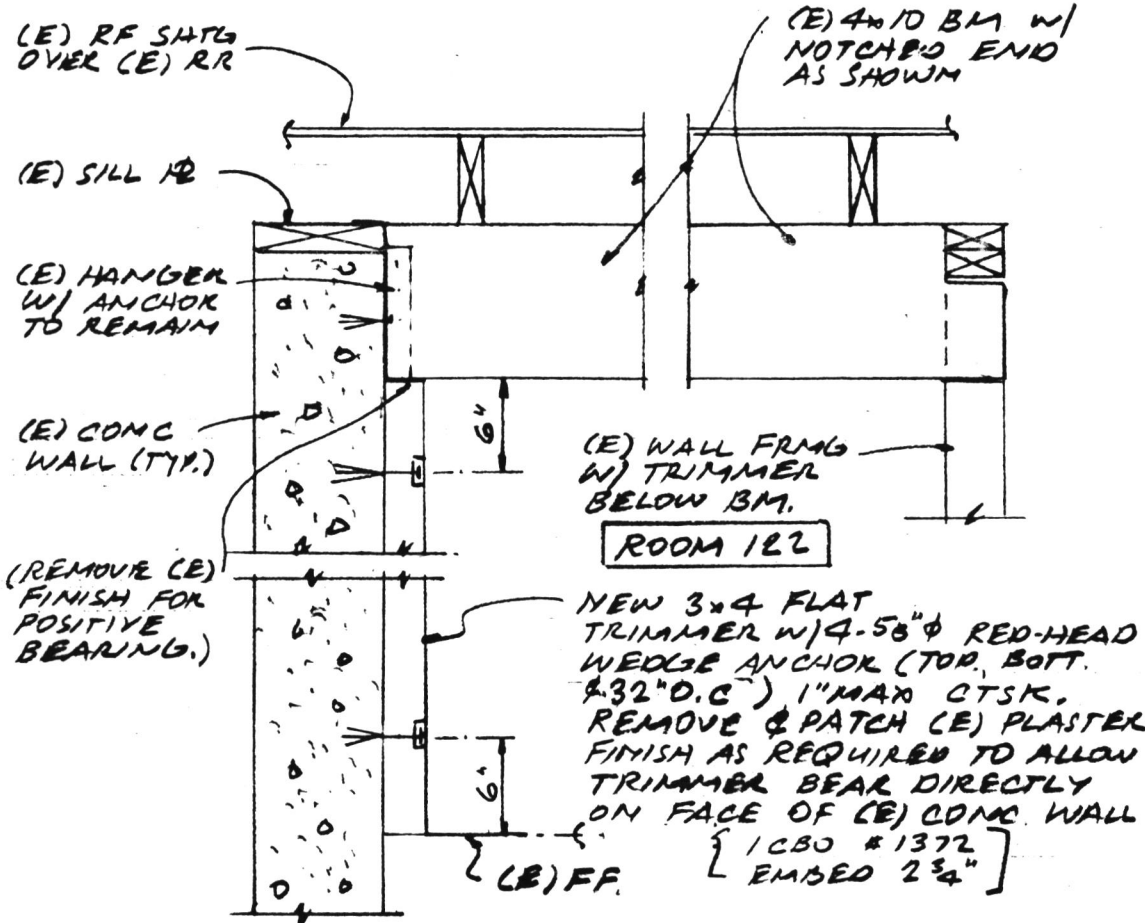
1

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eric r. carter, p.e. principal architect
 frank a. graham, p.e. principal architect
 matt m. hughes, p.e. principal architect
 william r. lundquist, p.e. principal architect

0-888 0-208 0-881 0-878



NOTES

1. SEE SHT 51.00 FOR GENERAL NOTES
2. SEE 7/52.00 FOR ADDITIONAL INFO.

(E) BEAM ELEVATION STRENGTHENING 12/1-0'

Office of the State Architect
 Structural Safety Section

PRELIMINARY APPROVAL ONLY
 A Change Order is Required

By _____ Date _____



4'x10" BEAM SUPPORT COLUMN
 ROOSEVELT ELEMENTARY SCHOOL MOD.
 BAKERSFIELD CITY SCHOOL DISTRICT
 2324 VERDE STREET
 BAKERSFIELD, CA

O.S.A. APPLICATION NO. A-51474
 O.S.A. FILE NO. F-15-6

JOB NO.
88-142

DATE
 23 July 91

SK
8

ROOSEVELT
88107

STRUCTURAL CALCULATIONS

PROJECT DESCRIPTION:

JOB NO. : 88107 (BFGC NO. 88-142)
NAME : ROOSEVELT SCHOOL
MODERNIZATION
ADDRESS : BAKERSFIELD, CA.

PREPARED FOR:

BFGC, INC.
5701 TRUXTUN AVE., SUITE 200
BAKERSFIELD, CA. 93309-0608

STRUCTURAL ENGINEER:

JOHN Q. FORESTELLE
STRUCTURAL ENGINEER
1414 VALHALLA DRIVE
BAKERSFIELD, CA 93309
(805) 833-4311

BEAM SUPPORT STRENGTHENING 7.22.91



Subject

JOHN Q. FORESTELLE
STRUCTURAL ENGINEER

1414 VALHALLA DRIVE
BAKERSFIELD, CALIFORNIA 93309
(805) 833-4311 FAX (805) 833-4314

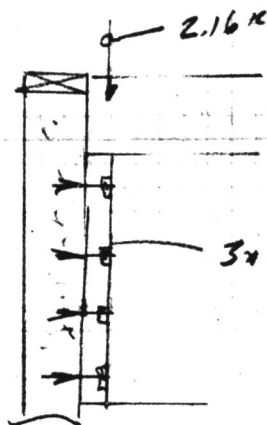
Job No. 88107

Sheet No. 2

Date 7-22-91

By JOF

END COND. - SEE PAGE 7 OF ORIG. CALLS FOR BACKUP.



$$f_p = \frac{2.16}{2.5(3.5)} = 2.96 \text{ ksi}, 3.85 \text{ ksi OR}$$

4-5# W.A. w/ 1" CTSK.

$$4(590) = 2.36' > 2.16' \text{ OR } S.S.$$

$$4(2.80) = 11.2' > 2.16' \text{ OR } 2\frac{3}{4} \text{ EMBRO}$$

USE 3# TRIMMAK w/ 4-5# W.A.

JOHN Q. FORESTELLE
STRUCTURAL ENGINEER

920 WIBLE ROAD BAKERSFIELD
CALIFORNIA 93304 (805) 397-7800

Job No. 88107
Sheet No. 3 of 3
Date 7-22-91
By JOP

NEW RR UNIT C CONF ROOM

(E) 4x10 BM

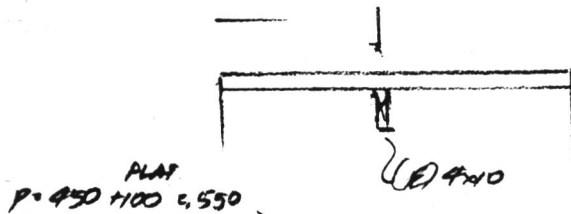
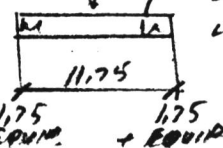


PLATE
P = 450 x 100 x 550



(E) 4x10
A = 52.4
S = 49.9
I = 230.8

$$N = 15 \left(\frac{12}{2} \right) = 112.5$$

$$U = 20 \left(\frac{12}{2} \right) = 117.0$$

298 * L

FLEX → $M = 298 \left(\frac{11.75}{8} \right)^2 = 5.147$ } 6.75' L

$$.550 \left(\frac{11.75}{4} \right) = 1.61$$

$$f_b = \frac{6.75 (12)}{49.9} = 1.55$$

$$F_b = 1.40 (1.15) = 1.61 > 1.55 \text{ OK}$$

COMP → MAX LOAD
= 75% (550) = 1.75
= 2.16'

SHEAR → Area = $\frac{(1.75 \times 550) 1.5}{1.095 (1.15)} = 31.5$

Area req. = 32.4 > 31.5 OK

$$B_{req} = \frac{2.16}{.385 (1.15)} = 9.87$$

204 > 95.25 > 9.87
OR

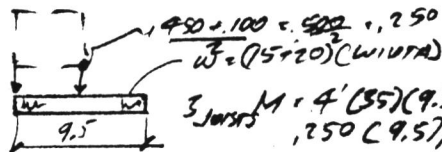
$$d \approx \frac{6.75 (11.75)^2}{9.45 (230)} = .42" > 4328 \text{ OK}$$

HANDRA H410 TF → .80 (9150) = 3.32 > 2.16'

H4510 TF → .80 (3,645) = 2.93 > 2.16' } OR

USE (E) 4x10 BM
CHECK END COND.
IN FIELD FOR
ADJOUACY.

(E) 2x6x16
S = 7.56



$$M = 4' (35) (9.5)^2 / 8 = 1.58$$

$$.250 (9.5) / 4 = .593$$

3 JOISTS } = 2.17'

$$f_b = \frac{2.17 (12)}{3 (7.56)} = 1.14 (1.25 (1.15)) = 1.44 \text{ OK}$$

USE (E) 2x6x16 A/C,
W/O STRAINING

ADDENDUM; CHANGE ORDER, DRAWING,
DEFERRED APPROVAL WORKSHEET
and TRANSMITTAL MEMO

SSS 143-1 (R 5/87) 7-2-91

For All Transactions Involving Field Work,
Route Material as Follows:

V.R. Field Engineer _____ Clerical Unit _____

File 15-6
Application 57474

Job Roosevelt School

Change Order Number	Addendum Number	Deferred Submittal	Other <u>BC</u>
---------------------	-----------------	--------------------	-----------------

LIST OF MATERIAL RECEIVED:

A. Master Copy
B. Copies <u>4 (SK-4)</u>
C. Tracing(s) Each _____ of Sheet(s) Number(s) _____
D. Print(s) Each _____ of Sheet(s) Number(s) _____
E.
F.

LIST OF MATERIAL APPROVED:

LIST OF MATERIAL

- Sent
- Handed

To _____

Items BFgc

Copies _____

of Print(s) Each _____ of Sheet(s) Number(s) _____

REMAINING REQUIREMENTS:

Copies _____

of Print(s) Each _____ of Sheet(s) Number(s) _____

Addendum Required Change Order(s) Required
 Change Order Required Covering Material Rec'd: _____ Date(s) _____

Remarks: _____

NOTES FOR CLERICAL USE ONLY:

Please make file copy of: _____ Other: _____

When approved file set is received, extend P&S approval to cover:

Revised P&S

Additional P&S (Scope Increase: _____) Type of Approval: _____

Checked by	SSS <u>[Signature]</u>	SFH <input checked="" type="checkbox"/> Not Required	ACS <input checked="" type="checkbox"/> Not Required
Approved by	<u>[Signature]</u>		
Date	<u>8-7-91</u>		



DRILLED-IN ANCHORS

MATERIAL	ANCHOR SIZE (THREAD DIA.)	3/8"	1/2"	5/8"	3/4"
RED HEAD "SLEEVE ANCHORS" INTO GROUTED MASONRY WALL	MINIMUM TEST LOAD (LBS) DIRECT PULL-TENSION (LBS) TORQUE WRENCH (FT-LBS) MINIMUM EMBEDMENT (INCHES) ALLOWABLE SHEAR (LBS) ALLOWABLE TENSION (LBS)			1230 80 2 1610 770	

NOTES:

- ALL ANCHORS SHALL BE MANUFACTURED BY "ITW RAMSET/REDHEAD" (ICBO # 1372)
- 50% OF ALL ANCHORS SHALL BE TESTED TO THE VALUES SHOWN ABOVE (EXCEPTION: 10% OF SILL PLATE ANCHORS SHALL BE TESTED)
- THE TENSION TESTING OF ANCHORS SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ARCHITECT. IF ANY ANCHORS FAIL, THE IMMEDIATELY ADJACENT ANCHORS SHALL BE TESTED.
- APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND THEN APPLY THE TEST LOAD.
- REACTION LOADS FROM TEST FIXTURE(S) MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
- TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
- THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

HYDRAULIC RAM METHOD:

THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.

TORQUE WRENCH METHOD:

THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:

ONE-QUARTER (1/4) TURN OF THE NUT FOR 3/8" DIA. ANCHORS
ONE-HALF (1/2) TURN OF THE NUT FOR ALL OTHER ANCHORS.

- TESTING SHOULD NOT OCCUR UNTIL AT LEAST 24 HOURS AFTER ANCHOR INSTALLATION.

bfgc architects planners inc.
 bakersfield
 p.o. box 9898
 california 93380-9898
 31 south red road
 california 93308
 805 832 8122

san luis obispo
 863 pacific street
 suite "a"
 san luis obispo
 california 93401
 805 548 0433

David R. Corneil, AIA, principal architect
 Frank A. Ghazal, AIA, principal architect
 Mark Angleton, AIA, principal architect
 William R. Wadell, AIA, principal architect

0-8844 0-3132 0-9951 0-8795

CLARIFICATION

ROOSEVELT ELEMENTARY SCHOOL MOD.

BAKERSFIELD CITY SCHOOL DISTRICT

2324 VERDE STREET

BAKERSFIELD, CA

O.S.A. APPLICATION NO. A-51474

O.S.A. FILE NO. F-15-6

"ALTERNATE"

REFERENCE DETAIL 14/S1.00!

5/8" SLEEVE ANCHORS MAY BE USED IN LIEU OF
 5/8" x 8" ANCHOR BOLTS.

Office of the State Architect
 Structural Safety Section

51474

PRELIMINARY APPROVAL ONLY
 A Change Order is Required

By CC/VP Date 8-7-91



JOB NO.
 88-142

DATE
 6-27-91

SK
 4

STATE OF CALIFORNIA
DEPARTMENT
OF GENERAL SERVICES

JUL 1 1991

OFFICE OF THE
STATE ARCHITECT
STRUCTURAL SAFETY
SECTION-L.A.