

LERA

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06 March 2018
File: POX021

Mr. Gary Ho

City and County of San Francisco
Department of Building Inspection
San Francisco Permit Center
1660 Mission Street, 2nd Floor
San Francisco, CA 94103-2414

Via Email: Gary.Ho@sfgov.org and mail

Millenium Tower, 301 Mission Street, San Francisco, CA

Structural Review of Mat Connection Test Proposed Core Holes

Dear Mr. Ho:

We have evaluated the impact the core holes for the proposed mat connection test will have on the existing 10' thick concrete mat on the B1 level of the Millenium Tower. The location and sizes of these holes are included on drawing S1.01 and in our supporting calculations in Appendix A.

Part of this evaluation included a review of the original mat construction and available concrete strength test data. Using this data we calculate that the in place concrete is nearly 30% stronger than what was specified in the original design drawings. You can find this calculation in Appendix B and the test data in Appendix C.

Accounting for this increased concrete strength we find that the core holes will not affect the integrity of the mat and the mat remains structurally adequate to resist the original design loading.

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Should you have any questions or need anything further, don't hesitate to reach out.

Very truly yours,

LESLIE E. ROBERTSON ASSOCIATES, R.L.L.P

Name (print): _____ Daniel A. Sesil _____

Sign and Date: _____ 06 March 2018 _____

P.E. Seal: _____

DAS/jbs

cc:

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06 MARCH 2018

APPENDIX A
STRUCTURAL CALCULATIONS -
IMPACT OF MAT CONNECTION TEST CORE HOLES
THROUGH EXISTING MAT SLAB

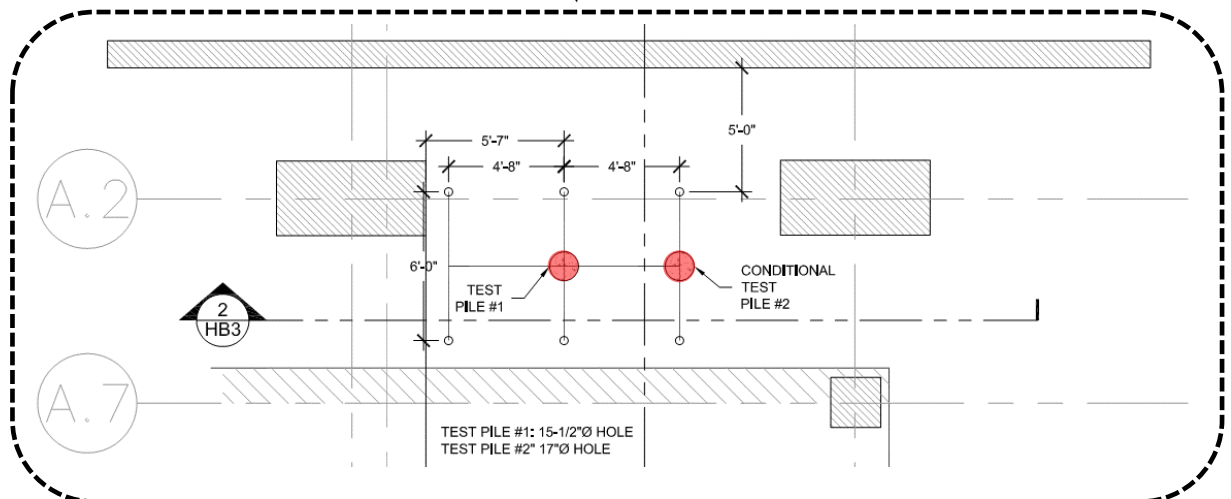
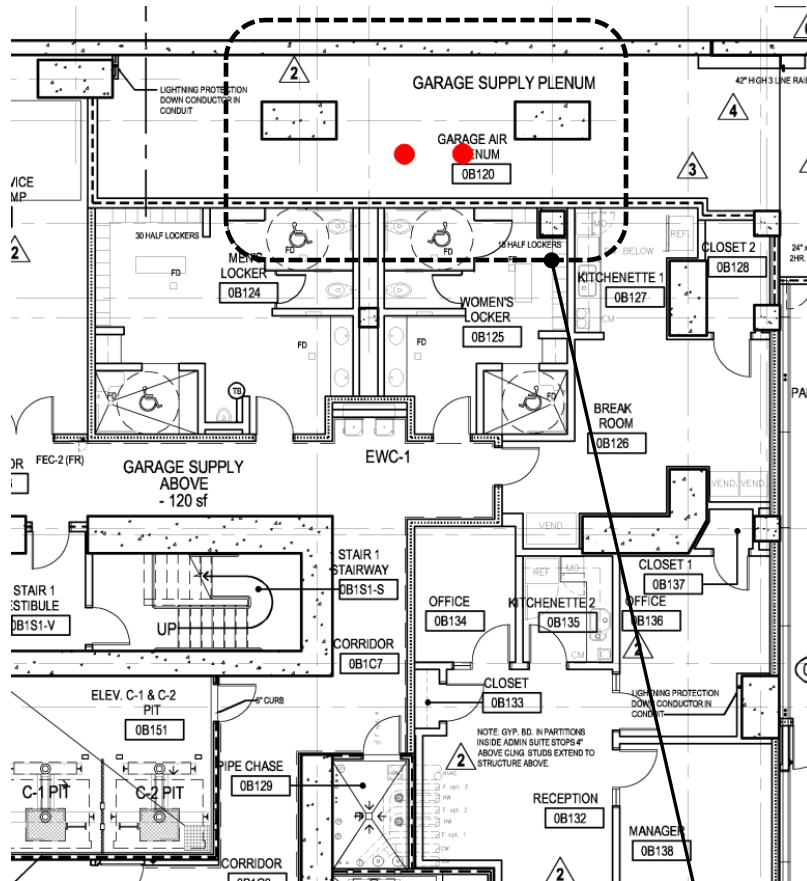
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Page A2

OBJECTIVE: Determine the impact of two holes to be cored through the existing mat slab.

CORE HOLE LOCATIONS:

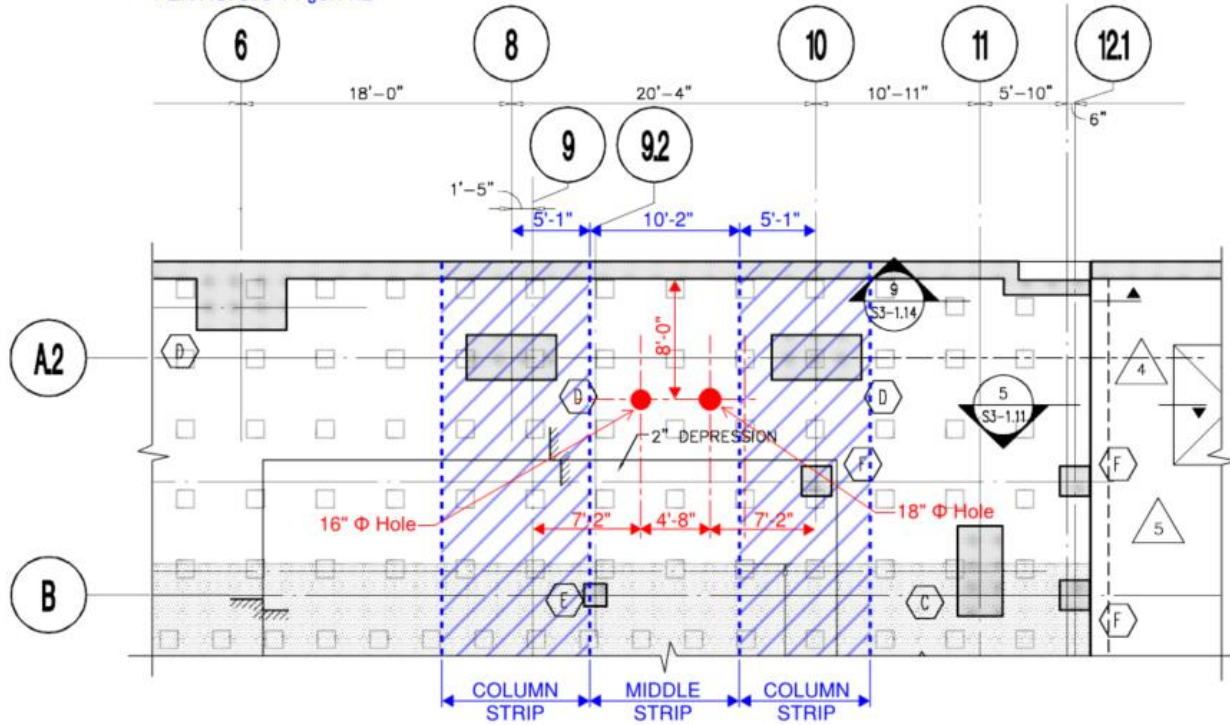
Part Plan NE Corner of B1 Level:



FLEXURAL SLAB DESIGN STRIP WIDTH:

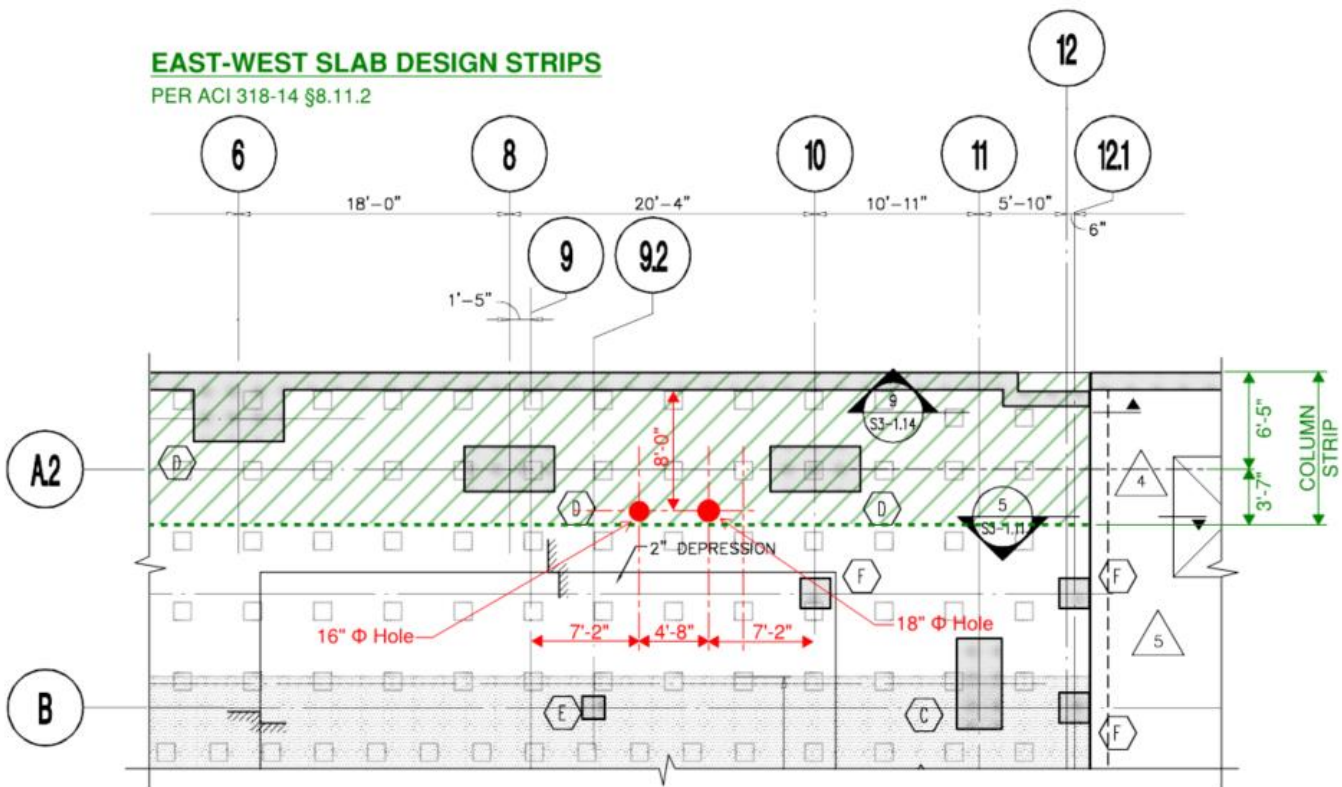
NORTH-SOUTH SLAB DESIGN STRIPS

PER ACI 318-14 §8.11.2

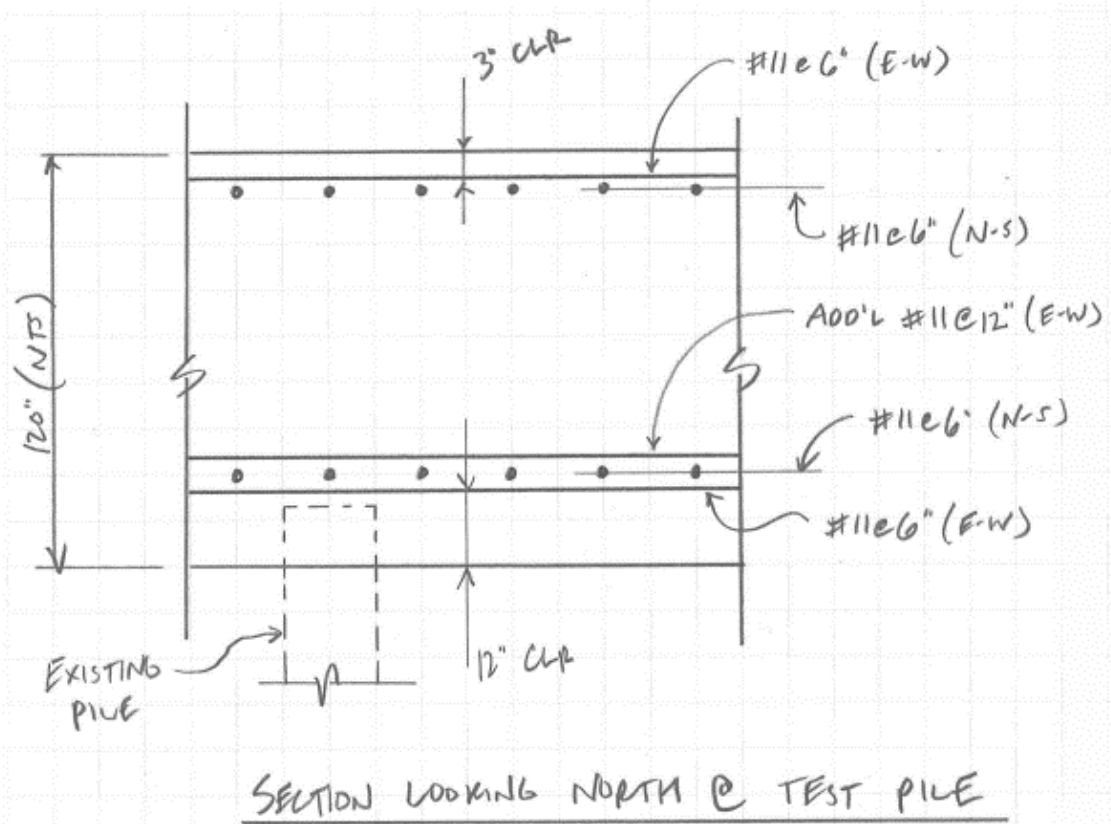


EAST-WEST SLAB DESIGN STRIPS

PER ACI 318-14 §8.11.2



SLAB REINFORCEMENT PER ORIGINAL CONTRACT DRAWINGS:



▣ NORTH-SOUTH DIRECTION

$$A_{s, \text{TOP}} = A_{s, \text{BOTT}} = 3.12 \text{ in}^2/\text{ft}$$

$$d_{\text{TOP}} = 120" - 3" - \frac{1}{8}" - \frac{1}{0}/2 = 114.9"$$

$$d_{\text{BOTT}} = 120" - 12" - \frac{1}{8}" - \frac{1}{0}/2 = 105.9"$$

▣ EAST-WEST DIRECTION

$$A_{s, \text{TOP}} = 3.12 \text{ in}^2/\text{ft}$$

$$A_{s, \text{BOTT}} = 4.68 \text{ in}^2/\text{ft}$$

$$d_{\text{TOP}} = 120" - 3" - \frac{1}{8}/2 = 116.3"$$

$$d_{\text{BOTT}} = 120" - 12" - \frac{1}{8}" - \frac{1}{0}/2 = 105.9"$$

(AVG)

MAT CONCRETE STRENGTH:

The original design drawings required: $f'c = 6,000$ psi

Per statistical analysis of concrete cores per ACI 214.4R-03, the equivalent in-place concrete strength of the mat slab may be taken as: $f'c = 7,710$ psi. We will use this value for our calculations.

See Appendix B for the statistical analysis data.

MAT SLAB FLEXURAL CAPACITY WITH PROPOSED HOLES:

The typical spacing of reinforcement in the area of the core holes is 6" o.c. Therefore, we assume the 16" & 18" holes will cut a maximum of 6 bars in each layer from the middle strip in the North-South direction and 3 bars from each layer from the column strip in the East-West direction. Conservatively, partial development of bars at locations of maximum moment has been neglected.

Flexural Capacity per ACI 318-14 §22.3:

$$\phi M_n = \phi A_s f_y \left(d - \frac{a}{2} \right) \quad \therefore \quad \phi = 0.9$$

$$a = \frac{A_s f_y}{0.05 f_c b}$$

North-South Direction:

$$b(\text{MIDDLE STRIP}) = 10' - 2 = 122" - 16" - 18" = 88"$$

$$A_{s, \text{TOP}} = A_{s, \text{BOTT}} = 3.12 \text{ in}^2/\text{ft} (10.17') = 31.7 \text{ in}^2$$

$$- 6(1.56 \text{ in}^2) = 22.34 \text{ in}^2$$

$$a_{\text{TOP}} = a_{\text{BOTT}} = \frac{22.34 \text{ in}^2 (75 \text{ ksi})}{0.05 (7.71 \text{ ksi}) (88")} = 2.91 \text{ in}$$

$$\phi M_n^{(+)} = 0.9 (22.3 \text{ in}^2) (75 \text{ ksi}) \left(114.9" - \frac{2.91"}{2} \right) / 12 = \boxed{14,230 \text{ K}\cdot\text{ft}}$$

$$\phi M_n^{(-)} = 0.9 (22.3 \text{ in}^2) (75 \text{ ksi}) \left(105.9" - \frac{2.91"}{2} \right) / 12 = \boxed{13,100 \text{ K}\cdot\text{ft}}$$

NOTE: (+) DEFINED AS TENSION ON TOP FACE OF MAT
(-) DEFINED AS TENSION ON BOTT FACE OF MAT

East-West Direction:

$$b(\text{column strip}) = 10'-0" = 120" - 18" = 102"$$

$$A_{s, \text{TOP}} = 3.12 \text{ in}^2/\text{ft} (10') = 31.2 \text{ in}^2 - 3(1.56 \text{ in}^2) = 26.52 \text{ in}^2$$

$$A_{s, \text{BOT}} = 4.60 \text{ in}^2/\text{ft} (10') = 46.0 \text{ in}^2 - 4.5(1.56 \text{ in}^2) = 39.78 \text{ in}^2$$

$$a_{\text{TOP}} = \frac{26.52(75)}{.85(7.71)(102)} = 2.97" \quad , \quad a_{\text{BOT}} = \frac{42.12(75)}{.85(7.71)(102)} = 4.73"$$

$$\phi M_n^{(+)} = 0.9(26.52 \text{ in}^2)(75 \text{ ksi}) \left(116.3" - \frac{2.97"}{2} \right) / 12 = \boxed{17,130 \text{ K.ft}}$$

$$\phi M_n^{(-)} = 0.9(39.78 \text{ in}^2)(75 \text{ ksi}) \left(105.9" - \frac{4.73"}{2} \right) / 12 = \boxed{23,165 \text{ K.ft}}$$

#11 Bar Development Length:

Mat slab flexural demands and capacities are reviewed within a length, l_d of the proposed holes. Outside of this zone, the holes have no effect on the slab flexural performance.

$$l_d = \left[\frac{3 f_y \Psi_t \Psi_c}{40 \lambda \sqrt{f_c}} \right] d_B \quad \therefore \text{ACI 318-14 T25.4.2.2}$$

WHERE $f_y = 75,000 \text{ psi}$
 $f_c = 7,710 \text{ psi}$ (Expected strength)

$\lambda = 1.0$ (NWC)

$\Psi_t = 1.3$ (>12" concrete below bar)

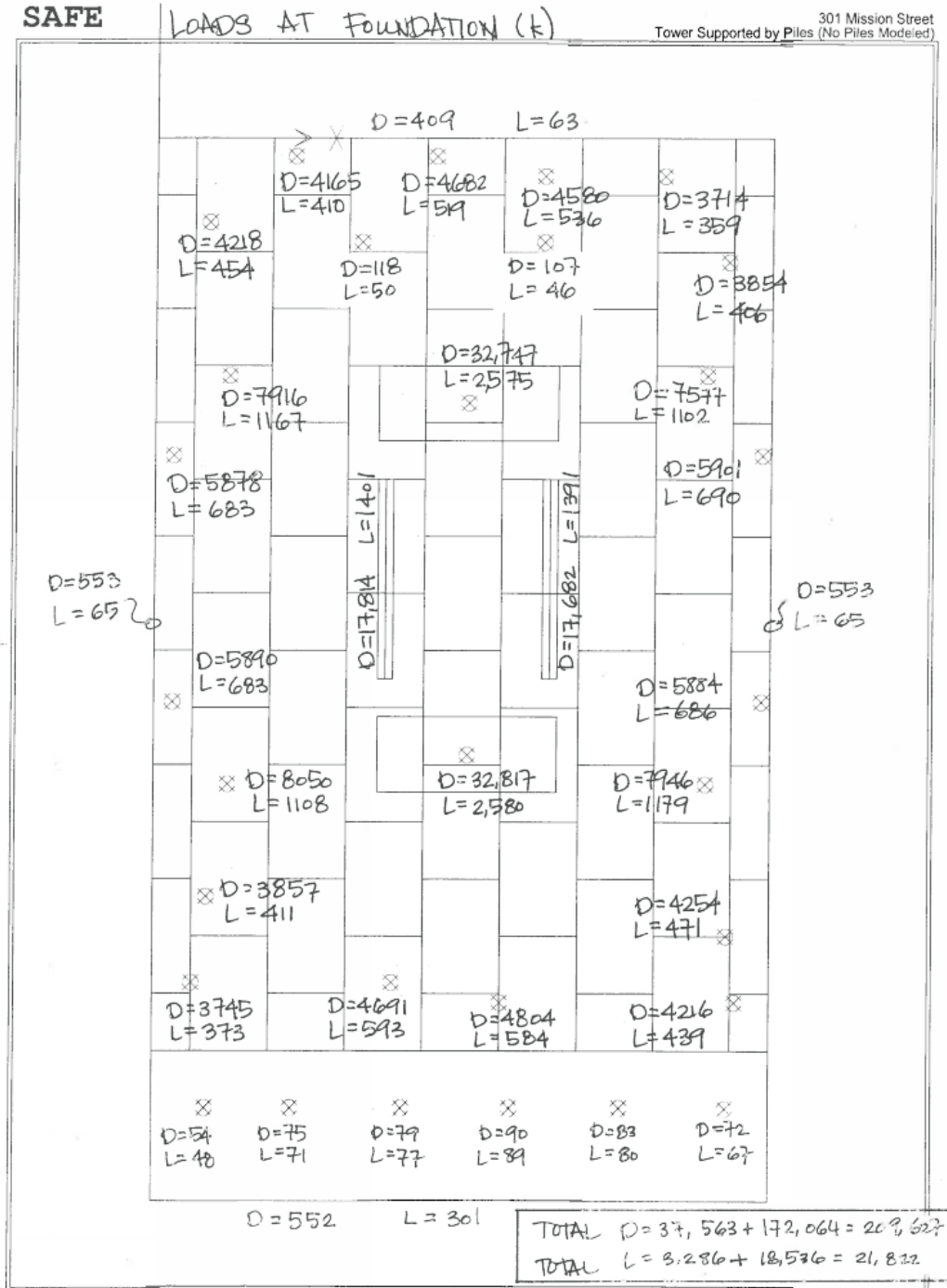
$\Psi_c = 1.0$ (Uncontd)

$$l_d = \left[\frac{3(75000)(1.3)}{40 \sqrt{7710}} \right] d_B = 83 d_B = 83(1.41")$$

$$\boxed{l_d = 117 \text{ in}}$$

MAT SLAB FLEXURAL DEMANDS

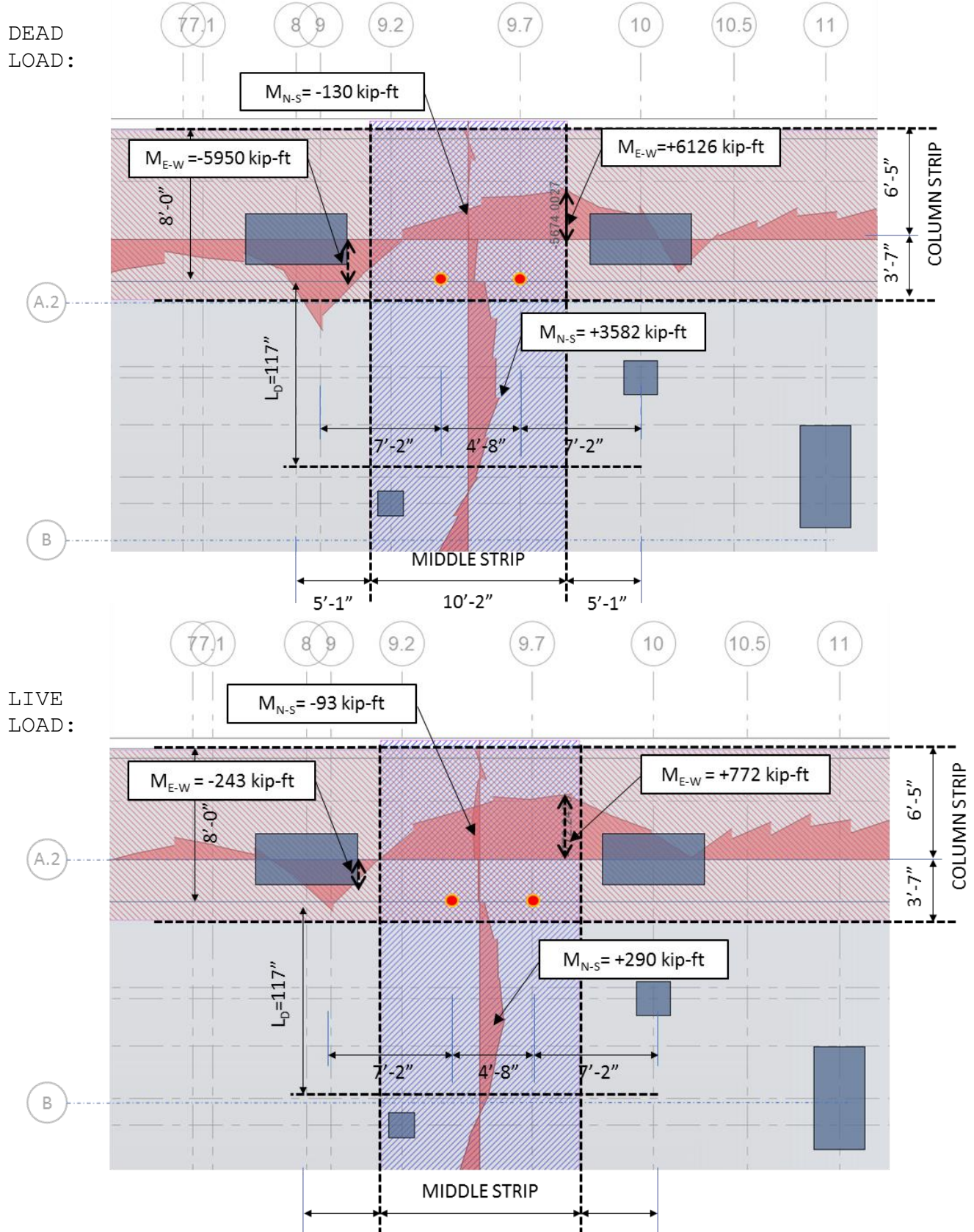
GRAVITY LOADS (DEAD & LIVE) PER ORIGINAL DESIGN CALCULATIONS:



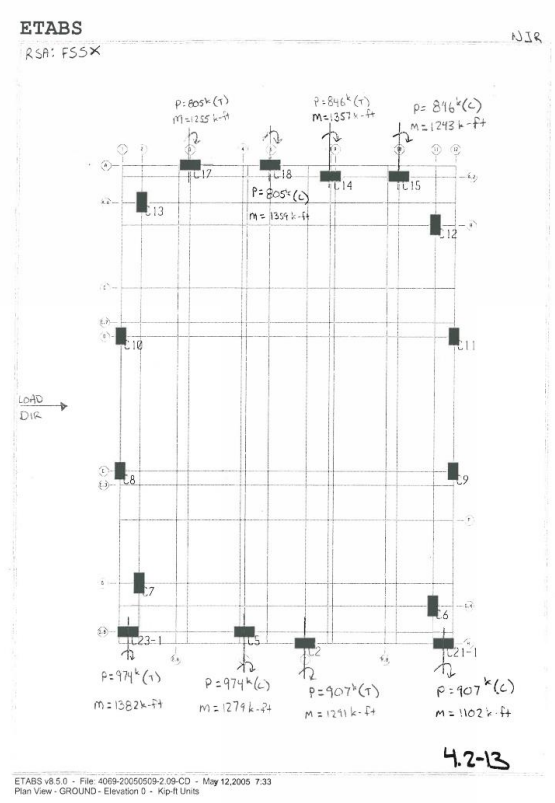
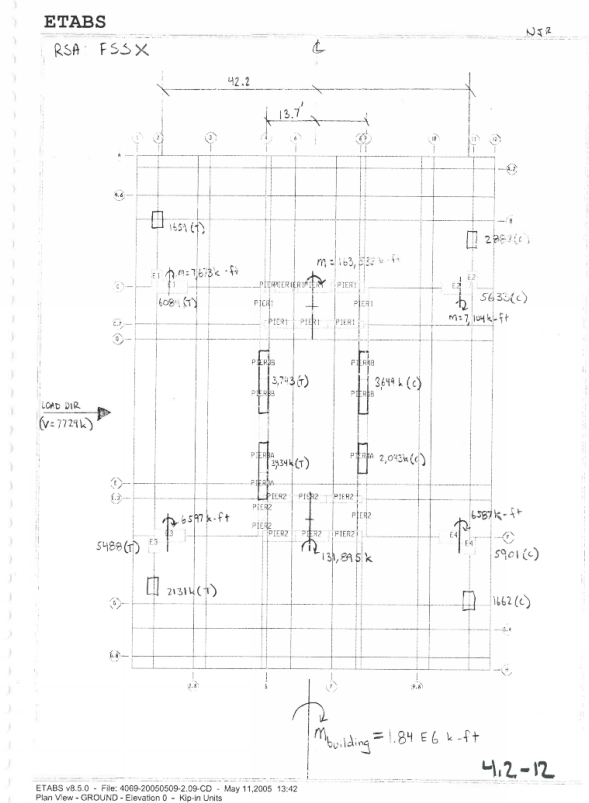
SAFE v8.0.6 - File: 4069-20050518-Tower-No-Piles-E - May 18,2005 17:28 - Scale: User Scale
Point Loading (DL) - Kip-in Units

4.2-11

MAT SLAB BENDING MOMENTS DUE TO GRAVITY LOADS (LERA ANALYSIS):

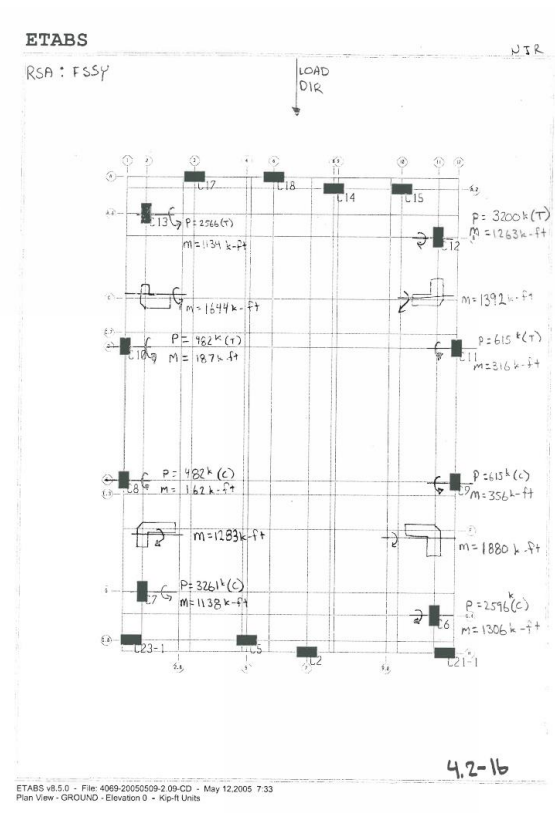
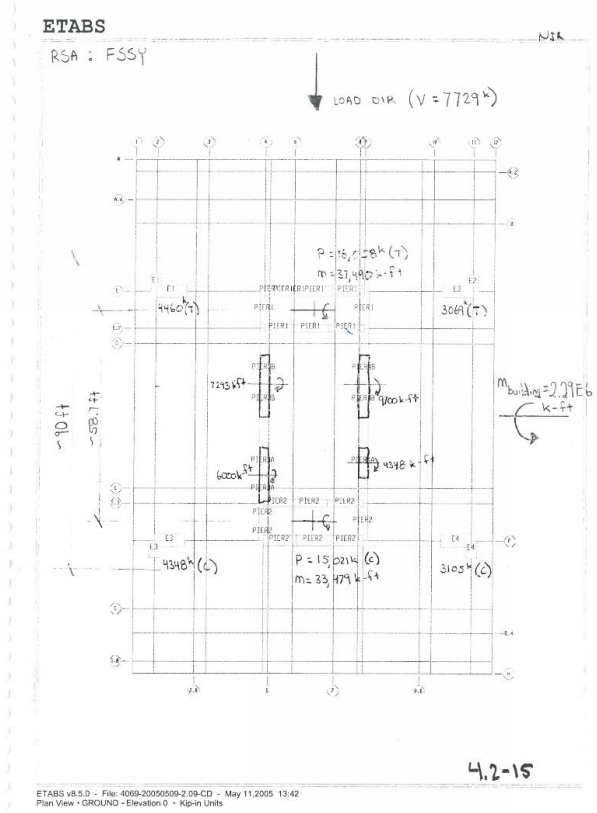


EARTHQUAKE LOADS (X-DIR) PER ORIGINAL DESIGN CALCULATIONS:



LOAD DIAGRAMS FROM VOL II OF FOUNDATION PERMIT SUBMITTAL DATED 24 MAY 2005

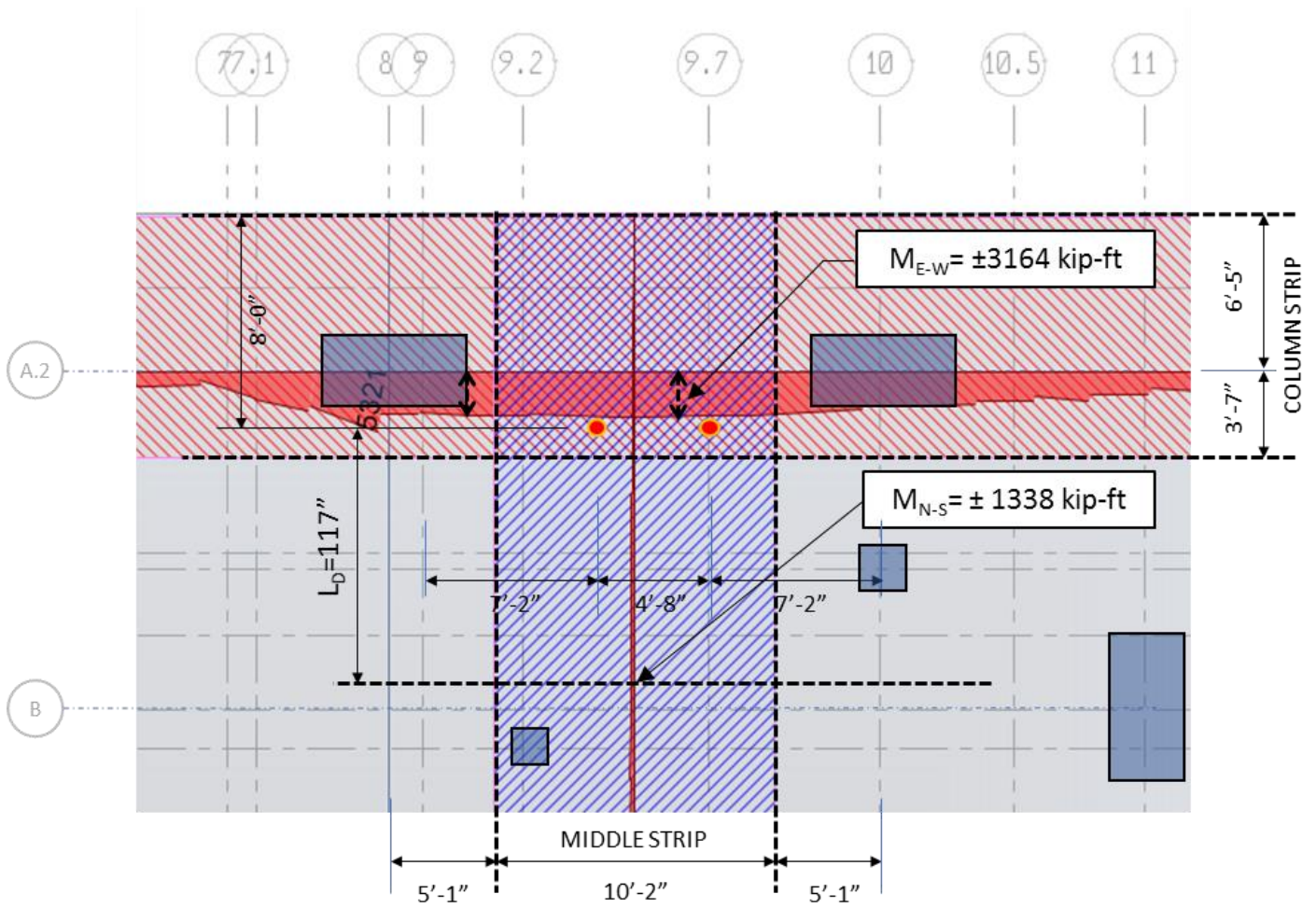
EARTHQUAKE LOADS (Y-DIR) PER ORIGINAL DESIGN CALCULATIONS:



LOAD DIAGRAMS FROM VOL II OF FOUNDATION PERMIT SUBMITTAL DATED 24 MAY 2005

MAT SLAB BENDING MOMENTS DUE TO EARTHQUAKE LOADS (LERA ANALYSIS) :

Envelope of: $\pm 1.0E_x \pm 0.3E_y$
 $\pm 0.3E_x \pm 1.0E_y$



LOAD COMBINATIONS:

Per the original calculations, the foundation was designed accounting for overstrength (i.e. the maximum Earthquake force that can be developed in the structure) so these calculations have done the same and the following LRFD load combinations have been considered:

Gravity:

1) $1.2D + 1.6L$

Seismic Overstrength:

2) $1.2D + 0.5L \pm \Omega * E_{ENV}$, where $\Omega = 2.8$

3) $0.9D \pm \Omega * E_{ENV}$, where $\Omega = 2.8$

Mu, North-South Direction:

Positive Moment:

1) $1.2*(3582) + 1.6*(290) = 4,762$ k-ft

2) $1.2*(3582) + 0.5*(290) + 2.8*(1338) = 8,190$ k-ft ← **CONTROLS**

3) $0.9*(3582) + 2.8*(1338) = 6,970$ k-ft

Negative Moment:

1) $1.2*(-130) + 1.6*(-93) = -305$ k-ft

2) $1.2*(-130) + 0.5*(-93) + 2.8*(-1338) = -3,949$ k-ft ← **CTRLS**

3) $0.9*(-130) + 2.8*(-1338) = -3863$ k-ft

Mu, East-West Direction:

Positive Moment:

1) $1.2*(6126) + 1.6*(772) = 8,586$ k-ft

2) $1.2*(6126) + 0.5*(772) + 2.8*(3164) = 16,596$ k-ft ← **CONTROLS**

3) $0.9*(6126) + 2.8*(3164) = 14,373$ k-ft

Negative Moment:

1) $1.2*(-5950) + 1.6*(-243) = -7,529$ k-ft

2) $1.2*(-5950) + 0.5*(-243) + 2.8*(-3164) = -16,121$ k-ft ← **CTRLS**

3) $0.9*(-5950) + 2.8*(-3164) = -14,214$ k-ft

FLEXURAL DEMAND CAPACITY RATIOS (DCR):

North-South Direction:

$$\text{Positive Moment: } \frac{M_u}{\phi M_n} = \frac{8,190 \text{ k-ft}}{14,230 \text{ k-ft}} = 0.58$$

$$\text{Negative Moment: } \frac{M_u}{\phi M_n} = \frac{3,949 \text{ k-ft}}{13,100 \text{ k-ft}} = 0.30$$

East-West Direction:

$$\text{Positive Moment: } \frac{M_u}{\phi M_n} = \frac{16,596 \text{ k-ft}}{17,130 \text{ k-ft}} = 0.97$$

$$\text{Negative Moment: } \frac{M_u}{\phi M_n} = \frac{16,121 \text{ k-ft}}{23,165 \text{ k-ft}} = 0.70$$

All DCRs are less than 1.0. The mat slab is OKAY for flexure.

REVIEW OF MAT SLAB PUNCHING SHEAR

CONCRETE PUNCHING SHEAR CAPACITY PER ORIGINAL DESIGN:

Concrete Punching Shear Capacity per ACI 318-14 §22.6:

$$\phi V_c = \phi \cdot \min \left\{ \begin{array}{l} 4 \lambda \sqrt{f_c} \\ \left(2 + \frac{4}{\beta}\right) \lambda \sqrt{f_c} \\ \left(2 + \frac{\alpha_s d}{b_o}\right) \lambda \sqrt{f_c} \end{array} \right\} b_o d$$

WHERE: $\lambda = 1.0$ (Normal Weight Concrete)

$\alpha_s = 30$ (Edge Column)

$\beta = 6'/3' = 2$

$b_o = 326''$ (Conservatively neglecting benefit of foundation wall)

$\phi = 0.75$

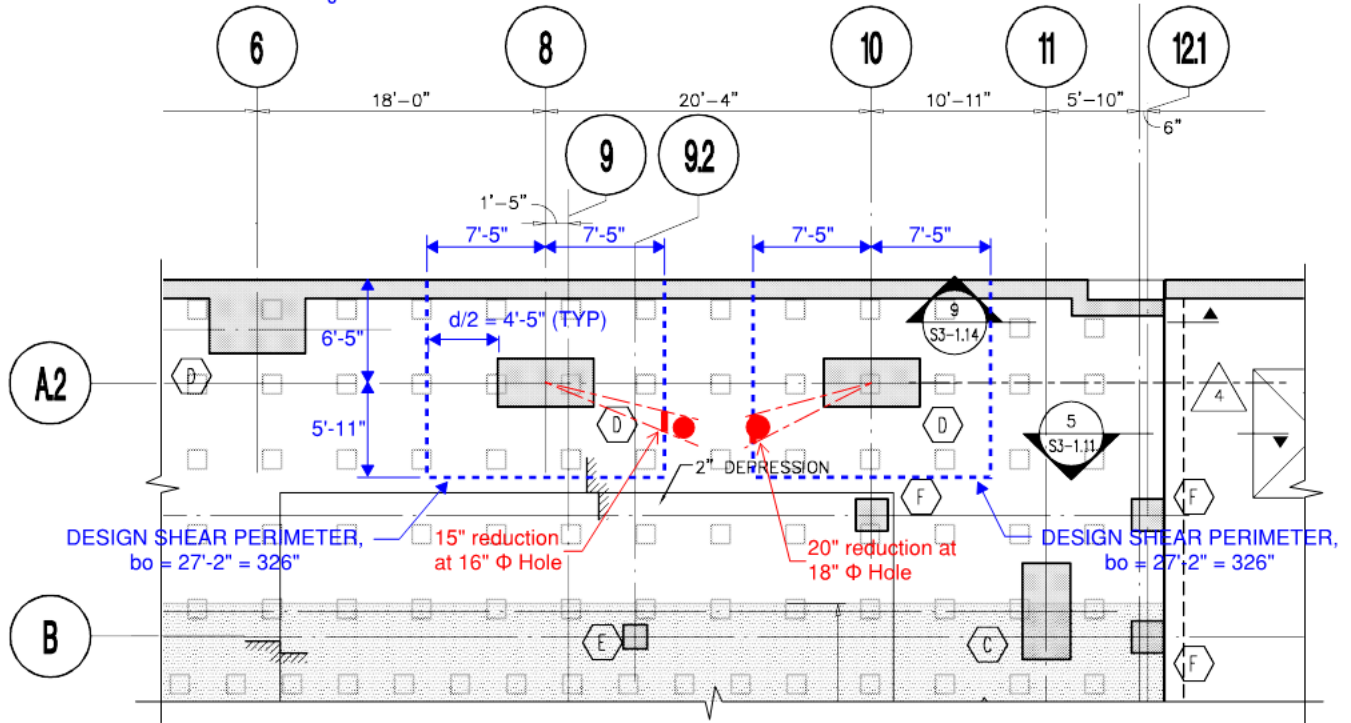
$$\phi V_c = \phi \cdot \min \left\{ \begin{array}{l} 4 \\ \left(2 + \frac{4}{2}\right) = 4 \\ \left(2 + \frac{30(106'')}{326''}\right) = 11.8 \end{array} \right\} \sqrt{f_c} b_o d = \boxed{\phi 4 \sqrt{f_c} b_o d}$$

NOTE: CONTRIBUTION OF STEEL STIRRUPS IS NEGLECTED FOR THIS CALCULATION BECAUSE ITS BENEFIT WILL NOT BE AFFECTED BY THE PROPOSED CORE HOLES.

CONCRETE PUNCHING SHEAR CAPACITY PER ORIGINAL DESIGN (cont):

Punching Shear Critical Perimeters

PER ACI 318-14 §22.6



Columns A.2/8 & A.2/10:

$$\phi V_c = 0.75 (4) \sqrt{6000} (326") (106") / 1000 = \boxed{8030 \text{ k}}$$

CONCRETE PUNCHING SHEAR CAPACITY WITH PROPOSED HOLES:

Column A.2/8:

$$b_0' = 326'' - 15'' = 311''$$

$$\phi V_c = 0.75(4)\sqrt{7710}(311'')(106'')/1000 = 8684 \text{ k} > 8030 \text{ k}$$

∴ NO REDUCTION

Column A.2/10:

$$b_0' = 326'' - 20'' = 306''$$

$$\phi V_c = 0.75(4)\sqrt{7710}(306'')(106'')/1000 = 8544 \text{ k} > 8030 \text{ k}$$

∴ NO REDUCTION

Accounting for the in-place concrete strength we find that, even with the new core holes, the mat has more capacity than the original design required.

TEST FRAME REACTION ANCHOR DESIGN REVIEW (SEE MP-SERIES FOR FRAME INFO) :

Threaded bar nominal diameter	$d := 2.25 \text{ in}$
Min. area through threads	$A_{se} := 4.08 \text{ in}^2$
Threaded bar ultimate strength	$f_{uta} := 150 \text{ ksi}$ ASTM A722 threaded bar
Cored hole diameter	$d_0 := 3 \text{ in}$
Min. edge distance from anchor	$c := 6.17 \text{ ft} = 74 \text{ in}$ to edge of mat
Load on anchor group	$N_{u,total} := 2000 \text{ kip}$
Load on individual anchor	$N_{u,ea} := 375 \text{ kip}$

Tensile strength of anchors

Tensile strength $\phi N_n := 8 (0.65 A_{se} \cdot f_{uta}) = 3182 \text{ kip} > 2000 \text{ kip OK}$

Concrete pullout - Steel/Grout Interface



As ACI does not address grouted anchors, use provisions in "Design Guidelines and Specifications for Engineered Grouts" by Cook, Burtz and Ansley.

Resistance factor (p. 64)	$\phi_b := 0.85$
Steel/grout bond stress	$\tau' := 2275 \text{ psi}$ from BASF Masterflow 928 grout test data
Modification factor steel/grout interface (Section 8.4 Eq. 10)	$\psi'_{\tau,c} := \min \left(0.7 + 0.3 \frac{c}{8d}, 1 \right) = 1.00$
Length required to develop bond	$h_{req1} := \frac{N_{u,ea}}{\phi_b \cdot \psi'_{\tau,c} \cdot \tau' \cdot \pi \cdot d} = 27 \text{ in} < 7'-6" \text{ OK}$

Concrete pullout - Grout/Concrete Interface



MBT PROTECTION & REPAIR PRODUCT DATA
MASTERFLOW® 928

Test Data, continued

PROPERTY		RESULTS	TEST METHODS
Ultimate tensile strength and bond stress			
Diameter	Depth	Tensile strength	Bond stress
in (mm)	in (mm)	lbs (kg)	psi (MPa)
5/8 (15.9)	4 (101.6)	23,500 (10,575)	2,991 (20.3)
3/4 (19.1)	5 (127.0)	30,900 (13,905)	2,623 (18.1)
1 (25.4)	6.75 (171.5)	65,500 (29,475)	3,090 (21.3)

ASTM E 488, tests*

*Average of 5 tests in $\geq 4,000$ psi (27.6 MPa) concrete using 125 ksi threaded rod in 2" (51 mm) diameter, damp, core-drilled holes.

Notes:

1. Grout was mixed to a fluid consistency.
2. Recommended design stress: 2,275 psi (15.7 MPa)
3. Refer to the "Adhesive and Grouted Fastener Capacity Design Guidelines" for more detailed information.
4. Tensile tests with headed fasteners were governed by concrete failure.

As ACI does not address grouted anchors, use provisions in Design Guidelines and Specifications for Engineered Grouts by Cook, Burtz and Ansley

Resistance factor (p. 64)

$$\phi_b := 0.85$$

Grout/concrete bond stress

$$\tau'_{0} := 2275 \text{ psi} \quad \text{from BASF Masterflow 928 grout test data}$$

Modification factor grout/concrete interface (Section 8.4 Eq. 10)

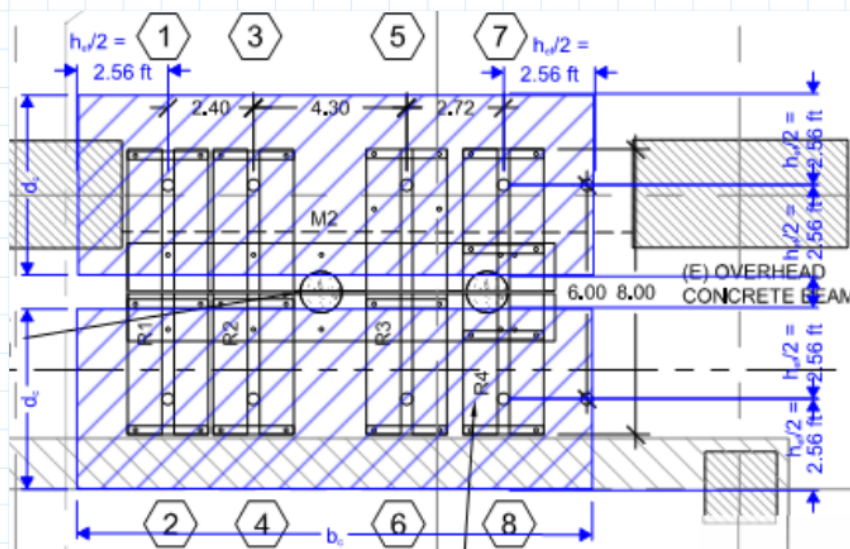
$$\psi'_{\tau_{0.e}} := \min \left(0.7 + 0.3 \frac{c}{5 d_0}, 1 \right) = 1.00$$

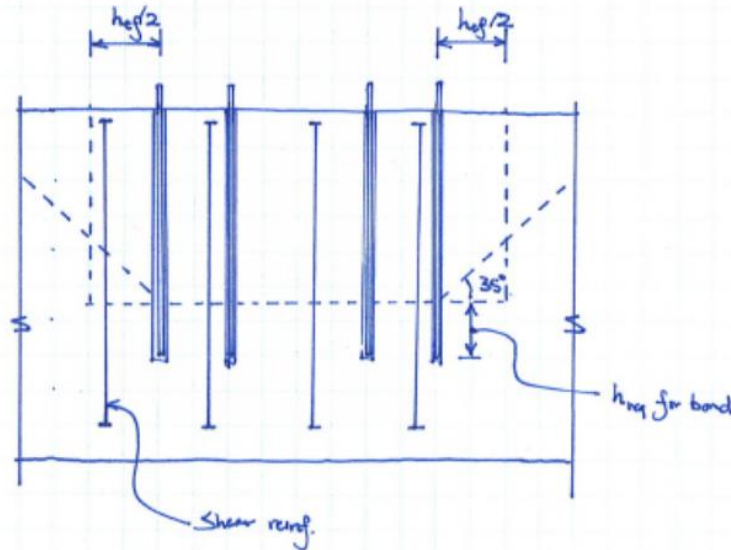
Length required to develop bond

$$h_{req2} := \frac{N_{u.ca}}{\phi_b \cdot \psi'_{\tau_{0.e}} \cdot \tau'_{0} \cdot \pi \cdot d_0} = 21 \text{ in} < 7'-6" \text{ OK}$$

Concrete breakout

Resist concrete breakout with anchor reinforcement per ACI Section 17.4.2.9





Effective embedment of the anchor

$$h_{ef} := 7.5 \text{ ft} - \max(h_{req1}, h_{req2}) = 5.21 \text{ ft}$$

$$0.5 h_{ef} = 2.61 \text{ ft}$$

Width of area within which reinf. can be counted on

$$b_c := 0.5 h_{ef} + 2.4 \text{ ft} + 4.3 \text{ ft} + 2.72 \text{ ft} + 0.5 h_{ef} = 14.63 \text{ ft}$$

Height of area within which reinf. can be counted on

$$d_c := h_{ef} = 5.21 \text{ ft}$$

Area within which reinf. can be counted on

$$A_{Nc} := 2 b_c \cdot d_c = 153 \text{ ft}^2$$

Per S2-0.B1.11, existing mat shear reinf. consists of #14 @ 36" o.c. e.w.

Number of shear bars in width dir.

$$n_b := \frac{b_c}{3 \text{ ft}} + 1 = 5.88$$

Number of shear bars in height dir.

$$n_d := \frac{d_c}{3 \text{ ft}} + 1 = 2.74$$

Number of shear bars that can resist loads in reaction anchors

$$n := 2 (5 \cdot 2) = 20$$

Strength of shear reinf.

$$\phi N_n := 20 \cdot 0.75 (75 \text{ ksi}) (2.25 \text{ in}^2) = 2531 \text{ kip}$$

> 2000 kip, **OK**

Check that headed shear reinf. is sufficiently developed below hef

Since development length of headed high strength rebar in high strength concrete is not addressed by ACI, use "Anchorage of Conventional and High-Strength Headed Reinforcing Bars" by Shao et al.

Shear bar diameter (#14)

$$d_{b, \text{shear}} := 1.693 \text{ in}$$

Yield strength of shear reinf.

$$f_y := 75000 \text{ psi}$$

Concrete strength

$$f'_c := 7710 \text{ psi}$$

Epoxy factor

$$\psi_e := 1$$

Confinement and spacing factor

$$\psi_{cs} := 0.5 \quad \text{shear bars spaced farther than } 8d_b \text{ apart}$$

Bar location factor

$$\psi_o := 1 \quad \text{side cover is larger than } 8d_b$$

Development length of headed bar

$$l_{dh} := \left(0.0024 \frac{f_y \cdot \psi_e \cdot \psi_{cs} \cdot \psi_o}{f'_c{}^{0.25}} \right) d_{b, \text{shear}}^{1.5} \text{ in} = 21 \text{ in}$$

Available length below hef

$$l := 10 \text{ ft} - 1 \text{ ft} - h_{ef} = 45 \text{ in} \quad > 21 \text{ in } \text{OK}$$

The existing mat and test frame anchors are adequate to resist the imposed testing loads.

LERA

P0X021 301 MISSION ST
24 JANUARY 2018

APPENDIX B

STATISTICAL ANALYSIS OF CONCRETE STRENGTH TEST RESULTS PER ACI 214.4R-03

Placement #	Sample Date	Supplier	Placement / Sample Location	90 Day	
				Compressive Strength (psi)	
49	6/16/2006	Central Caltite	Tower mat pour - Row K1 line 9	8370	8210
49	6/16/2006	Central Caltite	Tower mat pour - Row G line 8	8960	9030
49	6/16/2006	Central Caltite	Tower mat pour - Row H.8 line 6.5 1st lift	9460	
49	6/16/2006	Central Caltite	Tower mat pour - Row G.8 line 7	9110	8740
49	6/16/2006	Central Caltite	Tower mat pour - Row G.5 line 5.5	9800	9880
49	6/16/2006	Central Caltite	Tower mat pour - Row North side elevator	6560	6490
49	6/16/2006	Central Caltite	Tower mat pour - Row F line 10.5	8830	8900
49*	6/16/2006	Central Caltite	Tower mat pour - Row N & E face of elevator	3960	3860
49	6/16/2006	Central Caltite	Tower mat pour - Row F.5 line 2.5	8690	8700
49	6/16/2006	Central Caltite	Tower mat pour - Row F.4 line 5	9110	
49	6/16/2006	Central Caltite	Tower mat pour - Row F.6 line 2	9670	9380
49	6/16/2006	Central Caltite	Tower mat pour - Row E.3 line 2	9190	9470
49	6/16/2006	Central Caltite	Tower mat pour - Row D.5 line 3.4	8790	8810
49	6/16/2006	Central Caltite	Tower mat pour - Row D.8 line 9.7	8690	9150
49	6/16/2006	Central Caltite	Tower mat pour - Row D line 2	8820	8990
49	6/16/2006	Central Caltite	Tower mat pour - Row C line 2	8630	8900
49	6/16/2006	Central Caltite	Tower mat pour - Row A.7 line 2	9040	8760
49	6/16/2006	Central Caltite	Tower mat pour - Row A.6 line 1 to 2	8740	9130
49	6/16/2006	Central Caltite	Tower mat pour - Row A.6 line 10	9250	9040
49	6/16/2006	Central Caltite	Tower mat pour - Row A line 2 to 3	8680	8720
52	6/16/2006	Central Caltite	Tower mat pour - Row H line 9.7	8500	8840
52	6/16/2006	Central Caltite	Tower mat pour - Row H line 9	8230	8120
52	6/16/2006	Central Caltite	Tower mat pour - Row G.8 line 7.1	9410	9350
52	6/16/2006	Central Caltite	Tower mat pour - Row H line 3.5	9190	8840
52	6/16/2006	Central Caltite	Tower mat pour - Row G4 line 9	9290	9560
52	6/16/2006	Central Caltite	Tower mat pour - Row D.5 line 6.5	6230	6530
52	6/16/2006	Central Caltite	Tower mat pour - Row G.5 line 3	9870	9540
52	6/16/2006	Central Caltite	Tower mat pour - Row E line 5	8960	8900
52	6/16/2006	Central Caltite	Tower mat pour - Row F line 4	9530	9910
52	6/16/2006	Central Caltite	Tower mat pour - Row E.3 line 9.7	9200	9190
52	6/16/2006	Central Caltite	Tower mat pour - Row D line 9.2	9150	8870
52	6/16/2006	Central Caltite	Tower mat pour - Row D line 10	8580	8680
52	6/16/2006	Central Caltite	Tower mat pour - Row E line 9	8540	8810
52	6/16/2006	Central Caltite	Tower mat pour - Row F line 9.7	8810	9000
52	6/16/2006	Central Caltite	Tower mat pour - Row B line 8 to 9	9440	9770
52	6/16/2006	Central Caltite	Tower mat pour - Row E line 6	8010	8130
52	6/16/2006	Central Caltite	Tower mat pour - Row J to I line 1	8650	8580
53	6/17/2006	Central Caltite	Tower mat pour - Row A.7 line 8	8740	8760
53	6/17/2006	Central Caltite	Tower mat pour - Row B line 3	7680	7480
53	6/17/2006	Central Caltite	Tower mat pour - Row A.2 line 7	8860	8940
53	6/17/2006	Central Caltite	Tower mat pour - Row A.5 line 6	9940	9790
53	6/17/2006	Central Caltite	Tower mat pour - Row A.1 line 3.4	10010	10180
53	6/17/2006	Central Caltite	Tower mat pour - Row A.2 line 2	9570	9490
53	6/17/2006	Central Caltite	Tower mat pour - Row A.6 line 3	8990	8730
53	6/17/2006	Central Caltite	Tower mat pour - Row D.2 line 1	9690	9610
53	6/17/2006	Central Caltite	Tower mat pour - Row D.5 line 8	9760	9910
53	6/17/2006	Central Caltite	Tower mat pour - Row B.0 line 2	7380	7210
53	6/17/2006	Central Caltite	Tower mat pour - Row D.2 line 10	8510	8380
53	6/17/2006	Central Caltite	Tower mat pour - Row pile cap line	7740	7410
53	6/17/2006	Central Caltite	Tower mat pour - Row D.5 line 10	9030	9130
53	6/17/2006	Central Caltite	Tower mat pour - Row D.5 line 11	8800	8520
53	6/17/2006	Central Caltite	Tower mat pour - Row F line 11	9230	9490
53	6/17/2006	Central Caltite	Tower mat pour - Row D line 11	8790	8970
53	6/17/2006	Central Caltite	Tower mat pour - Row D.5 line 11	9270	9150
54	6/17/2006	Central Caltite	Tower mat pour - Row H4 to G8 to H line 3.8 to 5.2	9610	9220

Placement #	Sample Date	Supplier	Placement / Sample Location	90 Day Compressive Strength (psi)	
54	6/17/2006	Central Caltite	Tower mat pour - Row H to H.5 line 1 to 2	8820	8940
54	6/17/2006	Central Caltite	Tower mat pour - Row J.1 to K line 3 to 4	8750	8930
54	6/17/2006	Central Caltite	Tower mat pour - Row G.8 to J.1 line 1 to 2	6400	6050
54	6/17/2006	Central Caltite	Tower mat pour - Row F.5 to G.8 line 1 to 2.5	8970	9080
54	6/17/2006	Central Caltite	Tower mat pour - Row F to G line 1 to 2.5	9610	9350
54	6/17/2006	Central Caltite	Tower mat pour - Row E to F line 1 to 3	8860	8750
54	6/17/2006	Central Caltite	Tower mat pour - Row D to D.5 line 1 to 2.5	9260	9550
54	6/17/2006	Central Caltite	Tower mat pour - Row F to F.5 line 5 to 7	9060	8720
54	6/17/2006	Central Caltite	Tower mat pour - Row F to F.5 line 2 to 3	8080	8320
54	6/17/2006	Central Caltite	Tower mat pour - Row D.7 to E line 10.5 to 12	7400	7670
55	6/17/2006	Central Caltite	Tower mat pour - Row pile caps line	8370	8500
56	6/17/2006	Central Caltite	Tower mat pour - Row D.5 to E line 7.1	6730	6600

**This result is an outlier per the criteria of ASTM E178 (as referenced by ACI 214.4R-03 Appendix A1) and is thus omitted from the data set.*

Estimated equivalent f'c based original cylinder tests data using Bartlett's method (Referenced by ACI 318-14)	90 Day Compressive Strength (psi)
Sample Size, n	132
Min Value	6,050
Max Value	10,180
Range	4,130
Mean Strength, \hat{f}_c	8,771
Standard Deviation, s_c	829
Coefficient of variation, V	9.5%
Tolerance Factor, K^1	1.28
Equivalent-to-specified strength ² , $f'_c = \hat{f}_c - K \times s_c$	7,710

Notes:

1. K accounts for uncertainties of both mean and standard deviation caused by smaller sample size, ACI 214.4-R10 recommends K=1.28 for sample size greater than 30.
2. The ACI 318 strength requirement is that the probability of cylinder test strength below the specified strength ($0.9f'_c$ for individual test) is 1%.

LERA

P0X021 301 MISSION ST
24 JANUARY 2018

APPENDIX C CONCRETE CYCLINDER TEST REPORTS

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004348

PLACEMENT DATA

Placement #: 48
Sample date: 06/17/2006
Total sets: 1
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: ADVA caltite wrda64

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" LS / HANSON
Cement factor 6.65 sack
Slump spec: 8.00 in

SET DATA

Set number: 1 of 1
Sample time: 07:02
Sampled by: Ronald A. Brown
Ticket/Truck: 1575901 / 7104
Mold type: CYL

Slump: 10.00 in ASTM C143
Air temp: 70 deg F
Mix temp: 80 deg F ASTM C1064

Placement Location: row A to K line 1 to 12

Sample Location: row F to G line 9.7 to 10.5

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004348A	7	06/24/2006	L	4.00 X 8.00	12.57	43,870	1.00	3490	
004348B	14	07/01/2006	L	4.00 X 8.00	12.57	68,580	1.00	5460	
004348C	28	07/15/2006	L	4.00 X 8.00	12.57	78,900	1.00	6280	
004348D	28	07/15/2006	L	4.00 X 8.00	12.57	76,610	1.00	6100	
004348E	56	08/12/2006	L	4.00 X 8.00	12.57	92,800	1.00	7380	
004348F	56	08/12/2006	L	4.00 X 8.00	12.57	88,980	1.00	7080	
004348G	90	09/15/2006	L	4.00 X 8.00	12.57	101,760	1.00	8100	
004348H	90	09/15/2006	L	4.00 X 8.00	12.57	101,080	1.00	8040	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8070

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004349

PLACEMENT DATA

Placement # :	49	Mix Number	32112
Sample date :	06/16/2006	Strength Spec	6000 psi @ 90 days
Total sets :	20	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	1 of 20	Slump :	9.00 in	ASTM C143
Sample time :	12:08	Air temp :	68 deg F	
Sampled by :	Raquel Halloran	Mix temp :	65 deg F	ASTM C1064
Ticket/Truck :	1174422 / 2895			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : Row K1 line 9

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004349A	7	06/23/2006	L	4.00 X 8.00	12.57	47,240	1.00	3760	
004349B	14	06/30/2006	L	4.00 X 8.00	12.57	65,290	1.00	5200	
004349C	28	07/14/2006	L	4.00 X 8.00	12.57	78,630	1.00	6260	
004349D	28	07/14/2006	L	4.00 X 8.00	12.57	78,080	1.00	6210	
004349E	56	08/11/2006	L	4.00 X 8.00	12.57	91,610	1.00	7290	
004349F	56	08/11/2006	L	4.00 X 8.00	12.57	90,340	1.00	7190	
004349G	91	09/15/2006	L	4.00 X 8.00	12.57	105,194	1.00	8370	
004349H	91	09/15/2006	L	4.00 X 8.00	12.57	103,116	1.00	8210	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8290

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004350

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 2 of 20
Sample time: 12:52
Sampled by: Raquel Halloran
Ticket/Truck: 1174443 / 2893
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 64 deg F
Mix temp: 62 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: line 8 row G

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004350A	7	06/23/2006	L	4.00 X 8.00	12.57	58,950	1.00	4690	
004350B	14	06/30/2006	L	4.00 X 8.00	12.57	71,960	1.00	5730	
004350C	28	07/14/2006	L	4.00 X 8.00	12.57	85,250	1.00	6780	
004350D	28	07/14/2006	L	4.00 X 8.00	12.57	83,180	1.00	6620	
004350E	56	08/11/2006	L	4.00 X 8.00	12.57	101,690	1.00	8090	
004350F	56	08/11/2006	L	4.00 X 8.00	12.57	103,890	1.00	8270	
004350G	91	09/15/2006	L	4.00 X 8.00	12.57	112,631	1.00	8960	
004350H	91	09/15/2006	L	4.00 X 8.00	12.57	113,507	1.00	9030	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9000

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004351

PLACEMENT DATA

Placement # :	49	Mix Number	32112
Sample date :	06/16/2006	Strength Spec	6000 psi @ 90 days
Total sets :	20	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	3 of 20	Slump :	9.00 in	ASTM C143
Sample time :	01:23	Air temp :	64 deg F	
Sampled by :	Raquel Halloran	Mix temp :	68 deg F	ASTM C1064
Ticket/Truck :	1174454 / 3009			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : line 6.5 row H.8 1st lift

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004351A	7	06/23/2006	L	4.00 X 8.00	12.57	58,100	1.00	4620	
004351B	14	06/30/2006	L	4.00 X 8.00	12.57	74,320	1.00	5910	
004351C	28	07/14/2006	L	4.00 X 8.00	12.57	91,200	1.00	7260	
004351D	28	07/14/2006	L	4.00 X 8.00	12.57	92,620	1.00	7370	
004351E	56	08/11/2006	L	4.00 X 8.00	12.57	108,660	1.00	8650	
004351F	56	08/11/2006	L	4.00 X 8.00	12.57	106,450	1.00	8470	
004351G	91	09/15/2006	L	4.00 X 8.00	12.57	118,870	1.00	9460	
004351H	H		L	4.00 X 8.00	12.57	0	1.00	0	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9460

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004352

PLACEMENT DATA

Placement # :	49	Mix Number	32112
Sample date :	06/16/2006	Strength Spec	6000 psi @ 90 days
Total sets :	20	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	4 of 20	Slump :	9.50 in	ASTM C143
Sample time :	01:54	Air temp :	64 deg F	
Sampled by :	Raquel Halloran	Mix temp :	69 deg F	ASTM C1064
Ticket/Truck :	1174467 / 3004			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row G.8 line 7

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004352A	7	06/23/2006	L	4.00 X 8.00	12.57	53,950	1.00	4290	
004352B	14	06/30/2006	L	4.00 X 8.00	12.57	76,460	1.00	6080	
004352C	28	07/14/2006	L	4.00 X 8.00	12.57	88,990	1.00	7080	
004352D	28	07/14/2006	L	4.00 X 8.00	12.57	86,310	1.00	6870	
004352E	56	08/11/2006	L	4.00 X 8.00	12.57	97,300	1.00	7740	
004352F	56	08/11/2006	L	4.00 X 8.00	12.57	97,820	1.00	7780	
004352G	91	09/15/2006	L	4.00 X 8.00	12.57	114,511	1.00	9110	
004352H	91	09/15/2006	L	4.00 X 8.00	12.57	109,796	1.00	8740	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8930

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004353

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 5 of 20
Sample time: 02:43
Sampled by: Raquel Halloran
Ticket/Truck: 32065768 / 2994
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 64 deg F
Mix temp: 69 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: line 5.5 row G.5

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004353A	7	06/23/2006	L	4.00 X 8.00	12.57	63,940	1.00	5090	
004353B	14	06/30/2006	L	4.00 X 8.00	12.57	79,990	1.00	6370	
004353C	28	07/14/2006	L	4.00 X 8.00	12.57	98,180	1.00	7810	
004353D	28	07/14/2006	L	4.00 X 8.00	12.57	98,010	1.00	7800	
004353E	56	08/11/2006	L	4.00 X 8.00	12.57	113,990	1.00	9070	
004353F	56	08/11/2006	L	4.00 X 8.00	12.57	113,810	1.00	9060	
004353G	91	09/15/2006	L	4.00 X 8.00	12.57	123,120	1.00	9800	
004353H	91	09/15/2006	L	4.00 X 8.00	12.57	124,195	1.00	9880	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9840

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004354

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 6 of 20
Sample time: 02:45
Sampled by: Raquel Halloran
Ticket/Truck: 1575727 / 5137
Mold type: CYL

Slump: 9.00 in ASTM C143
Mix temp: 58 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: north side eleveator wall

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004354A	7	06/23/2006	L	4.00 X 8.00	12.57	31,830	1.00	2530	
004354B	14	06/30/2006	L	4.00 X 8.00	12.57	65,320	1.00	5200	
004354C	28	07/14/2006	L	4.00 X 8.00	12.57	59,110	1.00	4700	
004354D	28	07/14/2006	L	4.00 X 8.00	12.57	58,360	1.00	4640	
004354E	56	08/11/2006	L	4.00 X 8.00	12.57	70,070	1.00	5580	
004354F	56	08/11/2006	L	4.00 X 8.00	12.57	70,890	1.00	5640	
004354G	91	09/15/2006	L	4.00 X 8.00	12.57	82,462	1.00	6560	
004354H	91	09/15/2006	L	4.00 X 8.00	12.57	81,571	1.00	6490	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=6530

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004355

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 7 of 20
Sample time: 03:18
Sampled by: Raquel Halloran
Ticket/Truck: 2000356 / 0000
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 64 deg F
Mix temp: 67 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: line 10.5 row F

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004355A	7	06/23/2006	L	4.00 X 8.00	12.57	61,110	1.00	4860	
004355B	14	06/30/2006	L	4.00 X 8.00	12.57	80,170	1.00	6380	
004355C	28	07/14/2006	L	4.00 X 8.00	12.57	95,010	1.00	7560	
004355D	28	07/14/2006	L	4.00 X 8.00	12.57	92,960	1.00	7400	
004355E	56	08/11/2006	L	4.00 X 8.00	12.57	102,710	1.00	8170	
004355F	56	08/11/2006	L	4.00 X 8.00	12.57	106,970	1.00	8510	
004355G	91	09/15/2006	L	4.00 X 8.00	12.57	110,934	1.00	8830	
004355H	91	09/15/2006	L	4.00 X 8.00	12.57	111,825	1.00	8900	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8870

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004356

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 8 of 20
Sample time: 03:52
Sampled by: Raquel Halloran
Ticket/Truck: 1575785 / 7097
Mold type: CYL

Air temp: 64 deg F
Mix temp: 65 deg F
ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: north and east face of elevator wall

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004356A	7	06/23/2006	L	4.00 X 8.00	12.57	17,800	1.00	1420	
004356B	14	06/30/2006	L	4.00 X 8.00	12.57	42,160	1.00	3350	
004356C	28	07/14/2006	L	4.00 X 8.00	12.57	41,610	1.00	3310	
004356D	28	07/14/2006	L	4.00 X 8.00	12.57	43,920	1.00	3500	
004356E	56	08/11/2006	L	4.00 X 8.00	12.57	50,600	1.00	4030	
004356F	56	08/11/2006	L	4.00 X 8.00	12.57	49,780	1.00	3960	
004356G	91	09/15/2006	L	4.00 X 8.00	12.57	49,780	1.00	3960	
004356H	91	09/15/2006	L	4.00 X 8.00	12.57	48,556	1.00	3860	

Samples FAILED TO MEET specified 90 DAY strength requirement at 91 DAYS. Avg=3910

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004357

PLACEMENT DATA

Placement # :	49	Mix Number	32112
Sample date :	06/16/2006	Strength Spec	6000 psi @ 90 days
Total sets :	20	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	9 of 20	Slump :	9.00 in	ASTM C143
Sample time :	04:21	Air temp :	64 deg F	
Sampled by :	Raquel Halloran	Mix temp :	68 deg F	ASTM C1064
Ticket/Truck :	32065803 / 3001			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row F.5 line 2.5

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004357A	7	06/23/2006	L	4.00 X 8.00	12.57	55,730	1.00	4430	
004357B	14	06/30/2006	L	4.00 X 8.00	12.57	74,390	1.00	5920	
004357C	28	07/14/2006	L	4.00 X 8.00	12.57	88,750	1.00	7060	
004357D	28	07/14/2006	L	4.00 X 8.00	12.57	86,610	1.00	6890	
004357E	56	08/11/2006	L	4.00 X 8.00	12.57	107,610	1.00	8560	
004357F	56	08/11/2006	L	4.00 X 8.00	12.57	107,350	1.00	8540	
004357G	91	09/15/2006	L	4.00 X 8.00	12.57	109,160	1.00	8690	
004357H	91	09/15/2006	L	4.00 X 8.00	12.57	109,370	1.00	8700	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8700

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004358

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 10 of 20
Sample time: 04:51
Sampled by: Raquel Halloran
Ticket/Truck: 1174534 / 3007
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 60 deg F
Mix temp: 66 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row F.4 line 5

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004358A	7	06/23/2006	L	4.00 X 8.00	12.57	57,590	1.00	4580	
004358B	14	06/30/2006	L	4.00 X 8.00	12.57	72,120	1.00	5740	
004358C	28	07/14/2006	L	4.00 X 8.00	12.57	88,410	1.00	7040	
004358D	28	07/14/2006	L	4.00 X 8.00	12.57	90,020	1.00	7160	
004358E	56	08/11/2006	L	4.00 X 8.00	12.57	107,160	1.00	8530	
004358F	56	08/11/2006	L	4.00 X 8.00	12.57	109,510	1.00	8710	
004358G	91	09/15/2006	L	4.00 X 8.00	12.57	114,420	1.00	9110	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9110

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004359

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 11 of 20
Sample time: 05:19
Sampled by: Raquel Halloran
Ticket/Truck: 32065822 / 2996
Mold type: CYL

Slump: 9.00 in ASTM C143
Mix temp: 69 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row F.6 line 2

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004359A	7	06/23/2006	L	4.00 X 8.00	12.57	58,910	1.00	4690	
004359B	14	06/30/2006	L	4.00 X 8.00	12.57	75,630	1.00	6020	
004359C	28	07/14/2006	L	4.00 X 8.00	12.57	90,350	1.00	7190	
004359D	28	07/14/2006	L	4.00 X 8.00	12.57	87,880	1.00	6990	
004359E	56	08/11/2006	L	4.00 X 8.00	12.57	108,680	1.00	8650	
004359F	56	08/11/2006	L	4.00 X 8.00	12.57	112,320	1.00	8940	
004359G	91	09/15/2006	L	4.00 X 8.00	12.57	121,530	1.00	9670	
004359H	91	09/15/2006	L	4.00 X 8.00	12.57	117,810	1.00	9380	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9530

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004360

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 12 of 20
Sample time: 05:49
Sampled by: Raquel Halloran
Ticket/Truck: 11745549 / 3019
Mold type: CYL

Slump: 9.50 in ASTM C143
Air temp: 62 deg F
Mix temp: 68 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row E.3 line 2

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004360A	7	06/23/2006	L	4.00 X 8.00	12.57	56,510	1.00	4500	
004360B	14	06/30/2006	L	4.00 X 8.00	12.57	77,300	1.00	6150	
004360C	28	07/14/2006	L	4.00 X 8.00	12.57	89,490	1.00	7120	
004360D	28	07/14/2006	L	4.00 X 8.00	12.57	86,960	1.00	6920	
004360E	56	08/11/2006	L	4.00 X 8.00	12.57	104,680	1.00	8330	
004360F	56	08/11/2006	L	4.00 X 8.00	12.57	108,050	1.00	8600	
004360G	91	09/15/2006	L	4.00 X 8.00	12.57	115,530	1.00	9190	
004360H	91	09/15/2006	L	4.00 X 8.00	12.57	118,990	1.00	9470	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9330

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004361

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 13 of 20
Sample time: 06:20
Sampled by: Raquel Halloran
Ticket/Truck: 1174560 / 2901
Mold type: CYL

Slump: 9.50 in ASTM C143
Air temp: 60 deg F
Mix temp: 68 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: line 3.4 row D.5, first elevation

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004361A	7	06/23/2006	L	4.00 X 8.00	12.57	51,530	1.00	4100	
004361B	14	06/30/2006	L	4.00 X 8.00	12.57	70,120	1.00	5580	
004361C	28	07/14/2006	L	4.00 X 8.00	12.57	86,700	1.00	6900	
004361D	28	07/14/2006	L	4.00 X 8.00	12.57	86,440	1.00	6880	
004361E	56	08/11/2006	L	4.00 X 8.00	12.57	101,220	1.00	8050	
004361F	56	08/11/2006	L	4.00 X 8.00	12.57	100,210	1.00	7970	
004361G	91	09/15/2006	L	4.00 X 8.00	12.57	110,450	1.00	8790	
004361H	91	09/15/2006	L	4.00 X 8.00	12.57	110,670	1.00	8810	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8800

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004362

PLACEMENT DATA

Placement # :	49	Mix Number	32112
Sample date :	06/16/2006	Strength Spec	6000 psi @ 90 days
Total sets :	20	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	14 of 20	Slump :	9.00 in	ASTM C143
Sample time :	06:42	Air temp :	64 deg F	
Sampled by :	Raquel Halloran	Mix temp :	68 deg F	ASTM C1064
Ticket/Truck :	1174568 / 3037			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : line 9.7 row D.8 1st lift

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004362A	7	06/23/2006	L	4.00 X 8.00	12.57	52,320	1.00	4160	
004362B	14	06/30/2006	L	4.00 X 8.00	12.57	73,790	1.00	5870	
004362C	28	07/14/2006	L	4.00 X 8.00	12.57	89,420	1.00	7120	
004362D	28	07/14/2006	L	4.00 X 8.00	12.57	86,950	1.00	6920	
004362E	56	08/11/2006	L	4.00 X 8.00	12.57	105,910	1.00	8430	
004362F	56	08/11/2006	L	4.00 X 8.00	12.57	103,950	1.00	8270	
004362G	91	09/15/2006	L	4.00 X 8.00	12.57	109,220	1.00	8690	
004362H	91	09/15/2006	L	4.00 X 8.00	12.57	114,960	1.00	9150	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8920

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004363

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 15 of 20
Sample time: 07:35
Sampled by: Stanley D Van Tassel
Ticket/Truck: 32065865 / 2986
Mold type: CYL

Slump: 8.50 in ASTM C143
Air temp: 60 deg F
Mix temp: 70 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: D line 2

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004363A	7	06/23/2006	L	4.00 X 8.00	12.57	53,180	1.00	4230	
004363B	14	06/30/2006	L	4.00 X 8.00	12.57	72,900	1.00	5800	
004363C	28	07/14/2006	L	4.00 X 8.00	12.57	89,040	1.00	7090	
004363D	28	07/14/2006	L	4.00 X 8.00	12.57	88,750	1.00	7060	
004363E	56	08/11/2006	L	4.00 X 8.00	12.57	103,920	1.00	8270	
004363F	56	08/11/2006	L	4.00 X 8.00	12.57	102,030	1.00	8120	
004363G	91	09/15/2006	L	4.00 X 8.00	12.57	110,830	1.00	8820	
004363H	91	09/15/2006	L	4.00 X 8.00	12.57	113,010	1.00	8990	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8910

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004364

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 16 of 20
Sample time: 08:30
Sampled by: Stanley D Van Tassel
Ticket/Truck: 32065872 / 3010
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 68 deg F
Mix temp: 70 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row C line 2

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004364A	7	06/23/2006	L	4.00 X 8.00	12.57	57,400	1.00	4570	
004364B	14	06/30/2006	L	4.00 X 8.00	12.57	75,490	1.00	6010	
004364C	28	07/14/2006	L	4.00 X 8.00	12.57	89,440	1.00	7120	
004364D	28	07/14/2006	L	4.00 X 8.00	12.57	91,020	1.00	7240	
004364E	56	08/11/2006	L	4.00 X 8.00	12.57	104,720	1.00	8330	
004364F	56	08/11/2006	L	4.00 X 8.00	12.57	106,610	1.00	8480	
004364G	91	09/15/2006	L	4.00 X 8.00	12.57	108,446	1.00	8630	
004364H	91	09/15/2006	L	4.00 X 8.00	12.57	111,796	1.00	8900	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8770

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004365

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 17 of 20
Sample time: 09:15
Sampled by: Stanley D Van Tassel
Ticket/Truck: 1174622 / 212942
Mold type: CYL

Slump: 10.00 in ASTM C143
Air temp: 69 deg F
Mix temp: 70 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row A.7 line 2

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004365A	7	06/23/2006	L	4.00 X 8.00	12.57	51,690	1.00	4110	
004365B	14	06/30/2006	L	4.00 X 8.00	12.57	73,760	1.00	5870	
004365C	28	07/14/2006	L	4.00 X 8.00	12.57	90,280	1.00	7180	
004365D	28	07/14/2006	L	4.00 X 8.00	12.57	87,880	1.00	6990	
004365E	56	08/11/2006	L	4.00 X 8.00	12.57	105,630	1.00	8410	
004365F	56	08/11/2006	L	4.00 X 8.00	12.57	101,990	1.00	8120	
004365G	91	09/15/2006	L	4.00 X 8.00	12.57	113,540	1.00	9040	
004365H	91	09/15/2006	L	4.00 X 8.00	12.57	110,040	1.00	8760	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8900

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004366

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 18 of 20
Sample time: 10:15
Sampled by: Stanley D Van Tassel
Ticket/Truck: / 2933
Mold type: CYL

Slump: 8.50 in ASTM C143
Air temp: 74 deg F
Mix temp: 70 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row A.6 line 1 to 2

Comments: tickets missing

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004366A	7	06/23/2006	L	4.00 X 8.00	12.57	51,810	1.00	4120	
004366B	14	06/30/2006	L	4.00 X 8.00	12.57	75,980	1.00	6050	
004366C	28	07/14/2006	L	4.00 X 8.00	12.57	87,080	1.00	6930	
004366D	28	07/14/2006	L	4.00 X 8.00	12.57	85,400	1.00	6800	
004366E	56	08/11/2006	L	4.00 X 8.00	12.57	100,060	1.00	7960	
004366F	56	08/11/2006	L	4.00 X 8.00	12.57	99,930	1.00	7950	
004366G	91	09/15/2006	L	4.00 X 8.00	12.57	109,770	1.00	8740	
004366H	91	09/15/2006	L	4.00 X 8.00	12.57	114,740	1.00	9130	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8940

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

ATTN: James E. Sisson

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004367

PLACEMENT DATA

Placement # :	49	Mix Number	32112
Sample date :	06/16/2006	Strength Spec	6000 psi @ 90 days
Total sets :	20	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	19 of 20	Slump :	9.00 in	ASTM C143
Sample time :	11:00	Air temp :	78 deg F	
Sampled by :	Stanley D Van Tassel	Mix temp :	70 deg F	ASTM C1064
Ticket/Truck :	2000467 / 2899			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row A.6 to A line 10

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004367A	7	06/23/2006	L	4.00 X 8.00	12.57	55,180	1.00	4390	
004367B	14	06/30/2006	L	4.00 X 8.00	12.57	70,120	1.00	5580	
004367C	28	07/14/2006	L	4.00 X 8.00	12.57	87,470	1.00	6960	
004367D	28	07/14/2006	L	4.00 X 8.00	12.57	88,730	1.00	7060	
004367E	56	08/11/2006	L	4.00 X 8.00	12.57	102,720	1.00	8170	
004367F	56	08/11/2006	L	4.00 X 8.00	12.57	104,200	1.00	8290	
004367G	91	09/15/2006	L	4.00 X 8.00	12.57	116,290	1.00	9250	
004367H	91	09/15/2006	L	4.00 X 8.00	12.57	113,590	1.00	9040	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9150

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004368

PLACEMENT DATA

Placement #: 49
Sample date: 06/16/2006
Total sets: 20
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 20 of 20
Sample time: 11:25
Sampled by: Stanley D Van Tassel
Ticket/Truck: 1576183 / 7089
Mold type: CYL

Slump: 10.00 in ASTM C143
Air temp: 80 deg F
Mix temp: 74 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row A line 2 to 3

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004368A	7	06/23/2006	L	4.00 X 8.00	12.57	44,810	1.00	3570	
004368B	14	06/30/2006	L	4.00 X 8.00	12.57	65,930	1.00	5250	
004368C	28	07/14/2006	L	4.00 X 8.00	12.57	75,900	1.00	6040	
004368D	28	07/14/2006	L	4.00 X 8.00	12.57	78,950	1.00	6280	
004368E	56	08/11/2006	L	4.00 X 8.00	12.57	90,640	1.00	7210	
004368F	56	08/11/2006	L	4.00 X 8.00	12.57	94,690	1.00	7540	
004368G	91	09/15/2006	L	4.00 X 8.00	12.57	109,100	1.00	8680	
004368H	91	09/15/2006	L	4.00 X 8.00	12.57	109,580	1.00	8720	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8700

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
 Email Reports to:
 jes@ce-labs.com

RE: 301 Mission Street
 301 Mission Street
 San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
 FILE #:
 CEL #: 1019550
 LAB #: 004371

PLACEMENT DATA

Placement #: 52
 Sample date: 06/16/2006
 Total sets: 17
 Material type: Concrete Compression Cyl. ASTM C 39
 Material Supplier: Central Concrete Supply
 Admixture type: WR

Mix Number 32112
 Strength Spec 6000 psi @ 90 days
 Agg. Size/Src 1" /
 Cement factor 6.65 sack
 Slump spec: 10.00 in

SET DATA

Set number: 1 of 17
 Sample time: 12:10
 Sampled by: James Halloran
 Ticket/Truck: 1174424 / 2893
 Mold type: CYL

Slump: 9.00 in ASTM C143
 Air temp: 64 deg F
 Mix temp: 70 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: line 9.7 row H

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004371A	7	06/23/2006	L	4.00 X 8.00	12.57	50,750	1.00	4040	
004371B	14	06/30/2006	L	4.00 X 8.00	12.57	65,260	1.00	5190	
004371C	28	07/14/2006	L	4.00 X 8.00	12.57	78,710	1.00	6260	
004371D	28	07/14/2006	L	4.00 X 8.00	12.57	80,850	1.00	6430	
004371E	56	08/11/2006	L	4.00 X 8.00	12.57	98,060	1.00	7800	
004371F	56	08/11/2006	L	4.00 X 8.00	12.57	96,220	1.00	7660	
004371G	91	09/15/2006	L	4.00 X 8.00	12.57	106,860	1.00	8500	
004371H	90	09/14/2006	L	4.00 X 8.00	12.57	111,110	1.00	8840	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8840

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004372

PLACEMENT DATA

Placement #: 52
Sample date: 06/16/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 2 of 17
Sample time: 12:50
Sampled by: James Halloran
Ticket/Truck: MSG TAG / 0660
Mold type: CYL

Slump: 10.00 in ASTM C143
Air temp: 69 deg F
Mix temp: 64 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: line 9 row H

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004372A	7	06/23/2006	L	4.00 X 8.00	12.57	46,360	1.00	3690	
004372B	14	06/30/2006	L	4.00 X 8.00	12.57	63,140	1.00	5020	
004372C	28	07/14/2006	L	4.00 X 8.00	12.57	80,420	1.00	6400	
004372D	28	07/14/2006	L	4.00 X 8.00	12.57	73,950	1.00	5880	
004372E	56	08/11/2006	L	4.00 X 8.00	12.57	93,580	1.00	7450	
004372F	56	08/11/2006	L	4.00 X 8.00	12.57	90,900	1.00	7230	
004372G	91	09/15/2006	L	4.00 X 8.00	12.57	103,470	1.00	8230	
004372H	91	09/15/2006	L	4.00 X 8.00	12.57	102,070	1.00	8120	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8180

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

ATTN: James E. Sisson

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004373

PLACEMENT DATA

Placement # :	52	Mix Number	32112
Sample date :	06/16/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	3 of 17	Slump :	9.00 in	ASTM C143
Sample time :	13:23	Air temp :	63 deg F	
Sampled by :	James Halloran	Mix temp :	68 deg F	ASTM C1064
Ticket/Truck :	1174450 / 3022			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : line 7.1 row G.8

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004373A	7	06/23/2006	L	4.00 X 8.00	12.57	59,420	1.00	4730	
004373B	14	06/30/2006	L	4.00 X 8.00	12.57	68,620	1.00	5460	
004373C	28	07/14/2006	L	4.00 X 8.00	12.57	88,440	1.00	7040	
004373D	28	07/14/2006	L	4.00 X 8.00	12.57	89,970	1.00	7160	
004373E	56	08/11/2006	L	4.00 X 8.00	12.57	109,870	1.00	8740	
004373F	56	08/11/2006	L	4.00 X 8.00	12.57	107,110	1.00	8520	
004373G	91	09/15/2006	L	4.00 X 8.00	12.57	118,260	1.00	9410	
004373H	91	09/15/2006	L	4.00 X 8.00	12.57	117,460	1.00	9350	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9380

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004374

PLACEMENT DATA

Placement #: 52
Sample date: 06/16/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 4 of 17
Sample time: 14:25
Sampled by: James Halloran
Ticket/Truck: 1174465 / 213040
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 64 deg F
Mix temp: 69 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: line 3.5 row H

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004374A	7	06/23/2006	L	4.00 X 8.00	12.57	55,760	1.00	4440	
004374B	14	06/30/2006	L	4.00 X 8.00	12.57	71,360	1.00	5680	
004374C	28	07/14/2006	L	4.00 X 8.00	12.57	85,970	1.00	6840	
004374D	28	07/14/2006	L	4.00 X 8.00	12.57	85,590	1.00	6810	
004374E	56	08/11/2006	L	4.00 X 8.00	12.57	98,440	1.00	7830	
004374F	56	08/11/2006	L	4.00 X 8.00	12.57	101,140	1.00	8050	
004374G	91	09/15/2006	L	4.00 X 8.00	12.57	115,480	1.00	9190	
004374H	91	09/15/2006	L	4.00 X 8.00	12.57	111,090	1.00	8840	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9020

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
 Email Reports to:
 jes@ce-labs.com

RE: 301 Mission Street
 301 Mission Street
 San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
 FILE #:
 CEL #: 1019550
 LAB #: 004375

PLACEMENT DATA

Placement #: 52
 Sample date: 06/16/2006
 Total sets: 17
 Material type: Concrete Compression Cyl. ASTM C 39
 Material Supplier: Central Concrete Supply
 Admixture type: WR

Mix Number 32112
 Strength Spec 6000 psi @ 90 days
 Agg. Size/Src 1" /
 Cement factor 6.65 sack
 Slump spec: 10.00 in

SET DATA

Set number: 5 of 17
 Sample time: 14:41
 Sampled by: James Halloran
 Ticket/Truck: 1174482 / 3036
 Mold type: CYL

Slump: 9.00 in ASTM C143
 Air temp: 63 deg F
 Mix temp: 68 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row G4 line 9

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004375A	7	06/23/2006	L	4.00 X 8.00	12.57	59,170	1.00	4710	
004375B	14	06/30/2006	L	4.00 X 8.00	12.57	69,720	1.00	5550	
004375C	28	07/14/2006	L	4.00 X 8.00	12.57	92,500	1.00	7360	
004375D	28	07/14/2006	L	4.00 X 8.00	12.57	87,540	1.00	6970	
004375E	56	08/11/2006	L	4.00 X 8.00	12.57	108,430	1.00	8630	
004375F	56	08/11/2006	L	4.00 X 8.00	12.57	107,180	1.00	8530	
004375G	91	09/15/2006	L	4.00 X 8.00	12.57	116,780	1.00	9290	
004375H	91	09/15/2006	L	4.00 X 8.00	12.57	120,190	1.00	9560	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9430

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004376

PLACEMENT DATA

Placement #: 52
Sample date: 06/16/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 6 of 17
Sample time: 15:15
Sampled by: James Halloran
Ticket/Truck: 1575757 / 5144
Mold type: CYL

Slump: 11.00 in ASTM C143
Air temp: 61 deg F
Mix temp: 69 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: elevator wall, line 6.5 row D.5

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004376A	7	06/23/2006	L	4.00 X 8.00	12.57	30,930	1.00	2460	
004376B	14	06/30/2006	L	4.00 X 8.00	12.57	59,600	1.00	4740	
004376C	28	07/14/2006	L	4.00 X 8.00	12.57	52,360	1.00	4170	
004376D	28	07/14/2006	L	4.00 X 8.00	12.57	53,670	1.00	4270	
004376E	56	08/11/2006	L	4.00 X 8.00	12.57	75,110	1.00	5980	
004376F	56	08/11/2006	L	4.00 X 8.00	12.57	77,170	1.00	6140	
004376G	91	09/15/2006	L	4.00 X 8.00	12.57	78,250	1.00	6230	
004376H	91	09/15/2006	L	4.00 X 8.00	12.57	82,040	1.00	6530	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=6380

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004377

PLACEMENT DATA

Placement #: 52
Sample date: 06/16/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 7 of 17
Sample time: 16:17
Sampled by: James Halloran
Ticket/Truck: 1174516 / 2892
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 61 deg F
Mix temp: 67 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row G.5 line 3

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004377A	7	06/23/2006	L	4.00 X 8.00	12.57	63,670	1.00	5070	
004377B	14	06/30/2006	L	4.00 X 8.00	12.57	79,900	1.00	6360	
004377C	28	07/14/2006	L	4.00 X 8.00	12.57	93,470	1.00	7440	
004377D	28	07/14/2006	L	4.00 X 8.00	12.57	92,590	1.00	7370	
004377E	56	08/11/2006	L	4.00 X 8.00	12.57	110,280	1.00	8780	
004377F	56	08/11/2006	L	4.00 X 8.00	12.57	106,970	1.00	8510	
004377G	91	09/15/2006	L	4.00 X 8.00	12.57	124,050	1.00	9870	
004377H	91	09/15/2006	L	4.00 X 8.00	12.57	119,880	1.00	9540	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9710

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
 Email Reports to:
 jes@ce-labs.com

RE: 301 Mission Street
 301 Mission Street
 San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
 FILE #:
 CEL #: 1019550
 LAB #: 004378

PLACEMENT DATA

Placement #: 52
 Sample date: 06/16/2006
 Total sets: 17
 Material type: Concrete Compression Cyl. ASTM C 39
 Material Supplier: Central Concrete Supply
 Admixture type: WR

Mix Number 32112
 Strength Spec 6000 psi @ 90 days
 Agg. Size/Src 1" /
 Cement factor 6.65 sack
 Slump spec: 10.00 in

SET DATA

Set number: 8 of 17
 Sample time: 16:47
 Sampled by: James Halloran
 Ticket/Truck: 2000377 / 2897
 Mold type: CYL

Slump: 9.00 in ASTM C143
 Air temp: 59 deg F
 Mix temp: 66 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row E line 5

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004378A	7	06/23/2006	L	4.00 X 8.00	12.57	56,780	1.00	4520	
004378B	14	06/30/2006	L	4.00 X 8.00	12.57	69,350	1.00	5520	
004378C	28	07/14/2006	L	4.00 X 8.00	12.57	91,700	1.00	7300	
004378D	28	07/14/2006	L	4.00 X 8.00	12.57	85,860	1.00	6830	
004378E	56	08/11/2006	L	4.00 X 8.00	12.57	98,920	1.00	7870	
004378F	56	08/11/2006	L	4.00 X 8.00	12.57	98,320	1.00	7820	
004378G	91	09/15/2006	L	4.00 X 8.00	12.57	112,580	1.00	8960	
004378H	91	09/15/2006	L	4.00 X 8.00	12.57	111,830	1.00	8900	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8930

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004379

PLACEMENT DATA

Placement #: 52
Sample date: 06/16/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 9 of 17
Sample time: 17:15
Sampled by: James Halloran
Ticket/Truck: 2000389 / 2914
Mold type: CYL

Slump: 8.00 in ASTM C143
Air temp: 59 deg F
Mix temp: 65 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row F line 4

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004379A	7	06/23/2006	L	4.00 X 8.00	12.57	63,560	1.00	5060	
004379B	14	06/30/2006	L	4.00 X 8.00	12.57	80,200	1.00	6380	
004379C	28	07/14/2006	L	4.00 X 8.00	12.57	93,850	1.00	7470	
004379D	28	07/14/2006	L	4.00 X 8.00	12.57	93,020	1.00	7400	
004379E	56	08/11/2006	L	4.00 X 8.00	12.57	112,550	1.00	8960	
004379F	56	08/11/2006	L	4.00 X 8.00	12.57	114,750	1.00	9130	
004379G	91	09/15/2006	L	4.00 X 8.00	12.57	119,740	1.00	9530	
004379H	91	09/15/2006	L	4.00 X 8.00	12.57	124,570	1.00	9910	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9720

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004380

PLACEMENT DATA

Placement #: 52
Sample date: 06/16/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 10 of 17
Sample time: 17:50
Sampled by: James Halloran
Ticket/Truck: 1174552 / 3036
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 60 deg F
Mix temp: 63 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row E.3 line 9.7

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004380A	7	06/23/2006	L	4.00 X 8.00	12.57	58,320	1.00	4640	
004380B	14	06/30/2006	L	4.00 X 8.00	12.57	70,160	1.00	5580	
004380C	28	07/14/2006	L	4.00 X 8.00	12.57	92,340	1.00	7350	
004380D	28	07/14/2006	L	4.00 X 8.00	12.57	87,570	1.00	6970	
004380E	56	08/11/2006	L	4.00 X 8.00	12.57	104,650	1.00	8330	
004380F	56	08/11/2006	L	4.00 X 8.00	12.57	106,150	1.00	8450	
004380G	91	09/15/2006	L	4.00 X 8.00	12.57	115,660	1.00	9200	
004380H	91	09/15/2006	L	4.00 X 8.00	12.57	115,490	1.00	9190	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9200

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004381

PLACEMENT DATA

Placement # :	52	Mix Number	32112
Sample date :	06/16/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	11 of 17	Slump :	9.00 in	ASTM C143
Sample time :	18:14	Air temp :	59 deg F	
Sampled by :	James Halloran	Mix temp :	65 deg F	ASTM C1064
Ticket/Truck :	2000405 / 2915			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row D line 9.2

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004381A	7	06/23/2006	L	4.00 X 8.00	12.57	58,530	1.00	4660	
004381B	14	06/30/2006	L	4.00 X 8.00	12.57	75,220	1.00	5990	
004381C	28	07/14/2006	L	4.00 X 8.00	12.57	91,610	1.00	7290	
004381D	28	07/14/2006	L	4.00 X 8.00	12.57	90,390	1.00	7190	
004381E	56	08/11/2006	L	4.00 X 8.00	12.57	106,820	1.00	8500	
004381F	56	08/11/2006	L	4.00 X 8.00	12.57	105,400	1.00	8390	
004381G	91	09/15/2006	L	4.00 X 8.00	12.57	115,030	1.00	9150	
004381H	91	09/15/2006	L	4.00 X 8.00	12.57	111,430	1.00	8870	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9010

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004382

PLACEMENT DATA

Placement #: 52
Sample date: 06/16/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 12 of 17
Sample time: 19:15
Sampled by: James Halloran
Ticket/Truck: 1174574 / 3036
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 62 deg F
Mix temp: 65 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: line 10 row D

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004382A	7	06/23/2006	L	4.00 X 8.00	12.57	52,600	1.00	4190	
004382B	14	06/30/2006	L	4.00 X 8.00	12.57	71,990	1.00	5730	
004382C	28	07/14/2006	L	4.00 X 8.00	12.57	83,050	1.00	6610	
004382D	28	07/14/2006	L	4.00 X 8.00	12.57	81,480	1.00	6480	
004382E	56	08/11/2006	L	4.00 X 8.00	12.57	102,210	1.00	8130	
004382F	56	08/11/2006	L	4.00 X 8.00	12.57	100,960	1.00	8030	
004382G	91	09/15/2006	L	4.00 X 8.00	12.57	107,850	1.00	8580	
004382H	91	09/15/2006	L	4.00 X 8.00	12.57	109,050	1.00	8680	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8630

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004383

PLACEMENT DATA

Placement # :	52	Mix Number	32112
Sample date :	06/16/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	13 of 17	Slump :	8.00 in	ASTM C143
Sample time :	07:30	Air temp :	60 deg F	
Sampled by :	James Halloran	Mix temp :	64 deg F	ASTM C1064
Ticket/Truck :	1174584 / 2911			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row E line 9

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004383A	7	06/23/2006	L	4.00 X 8.00	12.57	53,500	1.00	4260	
004383B	14	06/30/2006	L	4.00 X 8.00	12.57	72,230	1.00	5750	
004383C	28	07/14/2006	L	4.00 X 8.00	12.57	89,410	1.00	7120	
004383D	28	07/14/2006	L	4.00 X 8.00	12.57	87,100	1.00	6930	
004383E	56	08/11/2006	L	4.00 X 8.00	12.57	104,430	1.00	8310	
004383F	56	08/11/2006	L	4.00 X 8.00	12.57	103,600	1.00	8240	
004383G	91	09/15/2006	L	4.00 X 8.00	12.57	107,280	1.00	8540	
004383H	91	09/15/2006	L	4.00 X 8.00	12.57	110,680	1.00	8810	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8680

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004384

PLACEMENT DATA

Placement #: 52
Sample date: 06/16/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 14 of 17
Sample time: 20:30
Sampled by: Samuel C Ekenstam
Ticket/Truck: 1174602 / 2910
Mold type: CYL

Slump: 8.00 in ASTM C143
Mix temp: 49 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: line 9.7 row f

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004384A	8	06/24/2006	L	4.00 X 8.00	12.57	55,380	1.00	4410	
004384B	14	06/30/2006	L	4.00 X 8.00	12.57	70,610	1.00	5620	
004384C	28	07/14/2006	L	4.00 X 8.00	12.57	85,410	1.00	6800	
004384D	28	07/14/2006	L	4.00 X 8.00	12.57	87,190	1.00	6940	
004384E	56	08/11/2006	L	4.00 X 8.00	12.57	100,700	1.00	8010	
004384F	56	08/11/2006	L	4.00 X 8.00	12.57	101,360	1.00	8070	
004384G	91	09/15/2006	L	4.00 X 8.00	12.57	110,720	1.00	8810	
004384H	91	09/15/2006	L	4.00 X 8.00	12.57	113,060	1.00	9000	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8910

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004385

PLACEMENT DATA

Placement # :	52	Mix Number	32112
Sample date :	06/16/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	15 of 17	Slump :	8.00 in	ASTM C143
Sample time :	21:15	Air temp :	73 deg F	
Sampled by :	Samuel C Ekenstam	Mix temp :	60 deg F	ASTM C1064
Ticket/Truck :	2000451 / 2897			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row B line 8 and 9

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004385A	7	06/23/2006	L	4.00 X 8.00	12.57	55,600	1.00	4420	
004385B	14	06/30/2006	L	4.00 X 8.00	12.57	75,220	1.00	5990	
004385C	28	07/14/2006	L	4.00 X 8.00	12.57	94,840	1.00	7550	
004385D	28	07/14/2006	L	4.00 X 8.00	12.57	93,380	1.00	7430	
004385E	56	08/11/2006	L	4.00 X 8.00	12.57	105,760	1.00	8420	
004385F	56	08/11/2006	L	4.00 X 8.00	12.57	105,080	1.00	8360	
004385G	91	09/15/2006	L	4.00 X 8.00	12.57	118,640	1.00	9440	
004385H	91	09/15/2006	L	4.00 X 8.00	12.57	122,720	1.00	9770	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=9610

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004386

PLACEMENT DATA

Placement #: 52
Sample date: 06/16/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 16 of 17
Sample time: 10:35
Sampled by: Samuel C Ekenstam
Ticket/Truck: 1628 / 1576150
Mold type: CYL

Slump: 9.50 in ASTM C143
Air temp: 75 deg F
Mix temp: 75 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row E line 6

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004386A	7	06/23/2006	L	4.00 X 8.00	12.57	36,960	1.00	2940	
004386B	14	06/30/2006	L	4.00 X 8.00	12.57	68,490	1.00	5450	
004386C	28	07/14/2006	L	4.00 X 8.00	12.57	76,260	1.00	6070	
004386D	28	07/14/2006	L	4.00 X 8.00	12.57	75,150	1.00	5980	
004386E	56	08/11/2006	L	4.00 X 8.00	12.57	89,610	1.00	7130	
004386F	56	08/11/2006	L	4.00 X 8.00	12.57	87,400	1.00	6960	
004386G	91	09/15/2006	L	4.00 X 8.00	12.57	100,690	1.00	8010	
004386H	91	09/15/2006	L	4.00 X 8.00	12.57	102,210	1.00	8130	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8070

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004387

PLACEMENT DATA

Placement #: 52
Sample date: 06/16/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 17 of 17
Sample time: 11:00
Sampled by: Samuel C Ekenstam
Ticket/Truck: 1174637 / 2940
Mold type: CYL

Slump: 8.00 in ASTM C143
Air temp: 80 deg F
Mix temp: 70 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: line 1 row J to I

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004387A	7	06/23/2006	L	4.00 X 8.00	12.57	47,860	1.00	3810	
004387B	14	06/30/2006	L	4.00 X 8.00	12.57	70,120	1.00	5580	
004387C	28	07/14/2006	L	4.00 X 8.00	12.57	82,010	1.00	6530	
004387D	28	07/14/2006	L	4.00 X 8.00	12.57	82,890	1.00	6600	
004387E	56	08/11/2006	L	4.00 X 8.00	12.57	96,950	1.00	7720	
004387F	56	08/11/2006	L	4.00 X 8.00	12.57	95,770	1.00	7620	
004387G	91	09/15/2006	L	4.00 X 8.00	12.57	108,740	1.00	8650	
004387H	91	09/15/2006	L	4.00 X 8.00	12.57	107,820	1.00	8580	

Samples MEET specified 90 DAY strength requirement at 91 DAYS. Avg=8620

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE:301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004388

PLACEMENT DATA

Placement # :	53	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	1 of 17	Slump :	9.00 in	ASTM C143
Sample time :	00:10	Air temp :	66 deg F	
Sampled by :	Stefanie M. Parman	Mix temp :	74 deg F	ASTM C1064
Ticket/Truck :	1174426 / 2901			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row A.7 line 8

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004388A	7	06/24/2006	L	4.00 X 8.00	12.57	50,980	1.00	4060	
004388B	14	07/01/2006	L	4.00 X 8.00	12.57	70,160	1.00	5580	
004388C	28	07/15/2006	L	4.00 X 8.00	12.57	84,240	1.00	6700	
004388D	28	07/15/2006	L	4.00 X 8.00	12.57	80,840	1.00	6430	
004388E	56	08/12/2006	L	4.00 X 8.00	12.57	103,780	1.00	8260	
004388F	56	08/12/2006	L	4.00 X 8.00	12.57	97,890	1.00	7790	
004388G	90	09/15/2006	L	4.00 X 8.00	12.57	109,810	1.00	8740	
004388H	90	09/15/2006	L	4.00 X 8.00	12.57	110,050	1.00	8760	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8750

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

ATTN: James E. Sisson

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004389

PLACEMENT DATA

Placement # :	53	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	2 of 17	Slump :	9.00 in	ASTM C143
Sample time :	01:00	Air temp :	68 deg F	
Sampled by :	Stefanie M. Parman	Mix temp :	71 deg F	ASTM C1064
Ticket/Truck :	2000315 / 2900			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row B line 3

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004389A	7	06/24/2006	L	4.00 X 8.00	12.57	43,820	1.00	3490	
004389B	14	07/01/2006	L	4.00 X 8.00	12.57	72,230	1.00	5750	
004389C	28	07/15/2006	L	4.00 X 8.00	12.57	68,410	1.00	5440	
004389D	28	07/15/2006	L	4.00 X 8.00	12.57	69,920	1.00	5560	
004389E	56	08/12/2006	L	4.00 X 8.00	12.57	84,870	1.00	6750	
004389F	56	08/12/2006	L	4.00 X 8.00	12.57	88,340	1.00	7030	
004389G	90	09/15/2006	L	4.00 X 8.00	12.57	96,450	1.00	7680	
004389H	90	09/15/2006	L	4.00 X 8.00	12.57	93,980	1.00	7480	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=7580

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004390

PLACEMENT DATA

Placement # :	53	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	3 of 17	Slump :	9.00 in	ASTM C143
Sample time :	01:30	Air temp :	66 deg F	
Sampled by :	Stefanie M. Parman	Mix temp :	69 deg F	ASTM C1064
Ticket/Truck :	32065759 / 2990			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row A.2 line 7, 2nd lift

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004390A	7	06/24/2006	L	4.00 X 8.00	12.57	54,970	1.00	4370	
004390B	14	07/01/2006	L	4.00 X 8.00	12.57	73,960	1.00	5890	
004390C	28	07/15/2006	L	4.00 X 8.00	12.57	84,300	1.00	6710	
004390D	28	07/15/2006	L	4.00 X 8.00	12.57	87,590	1.00	6970	
004390E	56	08/12/2006	L	4.00 X 8.00	12.57	103,250	1.00	8220	
004390F	56	08/12/2006	L	4.00 X 8.00	12.57	102,150	1.00	8130	
004390G	90	09/15/2006	L	4.00 X 8.00	12.57	111,280	1.00	8860	
004390H	90	09/15/2006	L	4.00 X 8.00	12.57	112,320	1.00	8940	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8900

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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 jes@ce-labs.com

RE: 301 Mission Street
 301 Mission Street
 San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
 FILE #:
 CEL #: 1019550
 LAB #: 004391

PLACEMENT DATA

Placement #: 53
 Sample date: 06/17/2006
 Total sets: 17
 Material type: Concrete Compression Cyl. ASTM C 39
 Material Supplier: Central Concrete Supply
 Admixture type: WR

Mix Number 32112
 Strength Spec 6000 psi @ 90 days
 Agg. Size/Src 1" /
 Cement factor 6.65 sack
 Slump spec: 10.00 in

SET DATA

Set number: 4 of 17
 Sample time: 02:10
 Sampled by: Stefanie M. Parman
 Ticket/Truck: 32065769 / 2988
 Mold type: CYL

Slump: 9.00 in ASTM C143
 Air temp: 69 deg F
 Mix temp: 72 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row A.5 line 6, top layer

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004391A	7	06/24/2006	L	4.00 X 8.00	12.57	61,560	1.00	4900	
004391B	14	07/01/2006	L	4.00 X 8.00	12.57	81,980	1.00	6520	
004391C	28	07/15/2006	L	4.00 X 8.00	12.57	91,620	1.00	7290	
004391D	28	07/15/2006	L	4.00 X 8.00	12.57	93,990	1.00	7480	
004391E	56	08/12/2006	L	4.00 X 8.00	12.57	111,250	1.00	8850	
004391F	56	08/12/2006	L	4.00 X 8.00	12.57	107,660	1.00	8570	
004391G	90	09/15/2006	L	4.00 X 8.00	12.57	124,970	1.00	9940	
004391H	90	09/15/2006	L	4.00 X 8.00	12.57	123,070	1.00	9790	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9870

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004392

PLACEMENT DATA

Placement # :	53	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	5 of 17	Slump :	9.50 in	ASTM C143
Sample time :	02:40	Air temp :	63 deg F	
Sampled by :	Stefanie M. Parman	Mix temp :	71 deg F	ASTM C1064
Ticket/Truck :	1174485 / 2895			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row A.1 line 3.4

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004392A	7	06/24/2006	L	4.00 X 8.00	12.57	63,380	1.00	5040	
004392B	14	07/01/2006	L	4.00 X 8.00	12.57	80,100	1.00	6370	
004392C	28	07/15/2006	L	4.00 X 8.00	12.57	100,370	1.00	7990	
004392D	28	07/15/2006	L	4.00 X 8.00	12.57	98,710	1.00	7860	
004392E	56	08/12/2006	L	4.00 X 8.00	12.57	115,430	1.00	9190	
004392F	56	08/12/2006	L	4.00 X 8.00	12.57	117,630	1.00	9360	
004392G	90	09/15/2006	L	4.00 X 8.00	12.57	125,730	1.00	10010	
004392H	90	09/15/2006	L	4.00 X 8.00	12.57	127,980	1.00	10180	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=10100

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004393

PLACEMENT DATA

Placement #: 53
Sample date: 06/17/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 6 of 17
Sample time: 03:20
Sampled by: Stefanie M. Parman
Ticket/Truck: 1174497 / 3009
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 64 deg F
Mix temp: 71 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row A.2 line 2

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004393A	7	06/24/2006	L	4.00 X 8.00	12.57	61,780	1.00	4920	
004393B	14	07/01/2006	L	4.00 X 8.00	12.57	81,220	1.00	6460	
004393C	28	07/15/2006	L	4.00 X 8.00	12.57	94,630	1.00	7530	
004393D	28	07/15/2006	L	4.00 X 8.00	12.57	92,330	1.00	7350	
004393E	56	08/12/2006	L	4.00 X 8.00	12.57	114,010	1.00	9070	
004393F	56	08/12/2006	L	4.00 X 8.00	12.57	110,090	1.00	8760	
004393G	90	09/15/2006	L	4.00 X 8.00	12.57	120,310	1.00	9570	
004393H	90	09/15/2006	L	4.00 X 8.00	12.57	119,250	1.00	9490	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9530

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004394

PLACEMENT DATA

Placement #: 53
Sample date: 06/17/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 7 of 17
Sample time: 03:40
Sampled by: Stefanie M. Parman
Ticket/Truck: 32065795 / 2986
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 63 deg F
Mix temp: 69 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row A.6 line 3

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004394A	7	06/24/2006	L	4.00 X 8.00	12.57	52,340	1.00	4170	
004394B	14	07/01/2006	L	4.00 X 8.00	12.57	77,130	1.00	6140	
004394C	28	07/15/2006	L	4.00 X 8.00	12.57	79,670	1.00	6340	
004394D	28	07/15/2006	L	4.00 X 8.00	12.57	79,040	1.00	6290	
004394E	56	08/12/2006	L	4.00 X 8.00	12.57	98,510	1.00	7840	
004394F	56	08/12/2006	L	4.00 X 8.00	12.57	100,740	1.00	8020	
004394G	90	09/15/2006	L	4.00 X 8.00	12.57	112,930	1.00	8990	
004394H	90	09/15/2006	L	4.00 X 8.00	12.57	109,710	1.00	8730	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8860

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004395

PLACEMENT DATA

Placement #: 53
Sample date: 06/17/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 8 of 17
Sample time: 04:05
Sampled by: Stefanie M. Parman
Ticket/Truck: 1174514 / 2901
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 64 deg F
Mix temp: 69 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row D.2 line 1.0

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004395A	7	06/24/2006	L	4.00 X 8.00	12.57	57,190	1.00	4550	
004395B	14	07/01/2006	L	4.00 X 8.00	12.57	75,360	1.00	6000	
004395C	28	07/15/2006	L	4.00 X 8.00	12.57	91,710	1.00	7300	
004395D	28	07/15/2006	L	4.00 X 8.00	12.57	95,410	1.00	7590	
004395E	56	08/12/2006	L	4.00 X 8.00	12.57	111,040	1.00	8840	
004395F	56	08/12/2006	L	4.00 X 8.00	12.57	113,330	1.00	9020	
004395G	90	09/15/2006	L	4.00 X 8.00	12.57	121,730	1.00	9690	
004395H	90	09/15/2006	L	4.00 X 8.00	12.57	120,800	1.00	9610	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9650

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004396

PLACEMENT DATA

Placement # :	53	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	9 of 17	Slump :	9.00 in	ASTM C143
Sample time :	04:40	Air temp :	64 deg F	
Sampled by :	Stefanie M. Parman	Mix temp :	71 deg F	ASTM C1064
Ticket/Truck :	32065812 / 2985			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row D.5 line 8

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004396A	7	06/24/2006	L	4.00 X 8.00	12.57	63,010	1.00	5010	
004396B	14	07/01/2006	L	4.00 X 8.00	12.57	80,120	1.00	6380	
004396C	28	07/15/2006	L	4.00 X 8.00	12.57	96,700	1.00	7700	
004396D	28	07/15/2006	L	4.00 X 8.00	12.57	96,350	1.00	7670	
004396E	56	08/12/2006	L	4.00 X 8.00	12.57	112,690	1.00	8970	
004396F	56	08/12/2006	L	4.00 X 8.00	12.57	109,860	1.00	8740	
004396G	90	09/15/2006	L	4.00 X 8.00	12.57	122,610	1.00	9760	
004396H	90	09/15/2006	L	4.00 X 8.00	12.57	124,470	1.00	9910	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9840

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004397

PLACEMENT DATA

Placement #: 53
Sample date: 06/17/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 10 of 17
Sample time: 05:10
Sampled by: Stefanie M. Parman
Ticket/Truck: 81611 / 7145
Mold type: CYL

Slump: 6.00 in ASTM C143
Air temp: 64 deg F
Mix temp: 71 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row B.0 line 2.0

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004397A	7	06/24/2006	L	4.00 X 8.00	12.57	34,300	1.00	2730	
004397B	14	07/01/2006	L	4.00 X 8.00	12.57	68,930	1.00	5490	
004397C	28	07/15/2006	L	4.00 X 8.00	12.57	65,660	1.00	5230	
004397D	28	07/15/2006	L	4.00 X 8.00	12.57	67,700	1.00	5390	
004397E	56	08/12/2006	L	4.00 X 8.00	12.57	79,310	1.00	6310	
004397F	56	08/12/2006	L	4.00 X 8.00	12.57	77,520	1.00	6170	
004397G	90	09/15/2006	L	4.00 X 8.00	12.57	92,780	1.00	7380	
004397H	90	09/15/2006	L	4.00 X 8.00	12.57	90,600	1.00	7210	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=7300

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004398

PLACEMENT DATA

Placement #: 53
Sample date: 06/17/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 11 of 17
Sample time: 05:50
Sampled by: Stefanie M. Parman
Ticket/Truck: 1174559 / 2892
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 66 deg F
Mix temp: 69 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row D.2 line 10

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004398A	7	06/24/2006	L	4.00 X 8.00	12.57	48,560	1.00	3860	
004398B	14	07/01/2006	L	4.00 X 8.00	12.57	73,510	1.00	5850	
004398C	28	07/15/2006	L	4.00 X 8.00	12.57	80,070	1.00	6370	
004398D	28	07/15/2006	L	4.00 X 8.00	12.57	81,990	1.00	6520	
004398E	56	08/12/2006	L	4.00 X 8.00	12.57	100,000	1.00	7960	
004398F	56	08/12/2006	L	4.00 X 8.00	12.57	95,330	1.00	7590	
004398G	90	09/15/2006	L	4.00 X 8.00	12.57	106,890	1.00	8510	
004398H	90	09/15/2006	L	4.00 X 8.00	12.57	105,310	1.00	8380	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8450

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004399

PLACEMENT DATA

Placement # :	53	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	12 of 17	Slump :	10.00 in	ASTM C143
Sample time :	06:47	Air temp :	60 deg F	
Sampled by :	Eric English	Mix temp :	70 deg F	ASTM C1064
Ticket/Truck :	32065840 / 2990			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : pile cap rpw A to K line 1 to 12

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004399A	7	06/24/2006	L	4.00 X 8.00	12.57	44,990	1.00	3580	
004399B	14	07/01/2006	L	4.00 X 8.00	12.57	70,130	1.00	5580	
004399C	28	07/15/2006	L	4.00 X 8.00	12.57	67,080	1.00	5340	
004399D	28	07/15/2006	L	4.00 X 8.00	12.57	68,810	1.00	5480	
004399E	56	08/12/2006	L	4.00 X 8.00	12.57	84,730	1.00	6740	
004399F	56	08/12/2006	L	4.00 X 8.00	12.57	85,150	1.00	6780	
004399G	90	09/15/2006	L	4.00 X 8.00	12.57	97,320	1.00	7740	
004399H	90	09/15/2006	L	4.00 X 8.00	12.57	93,120	1.00	7410	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=7580

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004400

PLACEMENT DATA

Placement #: 53
Sample date: 06/17/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 13 of 17
Sample time: 07:30
Sampled by: Eric English
Ticket/Truck: 2000430 / 2897
Mold type: CYL

Slump: 8.00 in ASTM C143
Air temp: 60 deg F
Mix temp: 68 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: pile cap row A to K line 1 to 2, row D.5 line 10

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004400A	7	06/24/2006	L	4.00 X 8.00	12.57	51,110	1.00	4070	
004400B	14	07/01/2006	L	4.00 X 8.00	12.57	72,140	1.00	5740	
004400C	28	07/15/2006	L	4.00 X 8.00	12.57	84,420	1.00	6720	
004400D	28	07/15/2006	L	4.00 X 8.00	12.57	83,470	1.00	6640	
004400E	56	08/12/2006	L	4.00 X 8.00	12.57	102,780	1.00	8180	
004400F	56	08/12/2006	L	4.00 X 8.00	12.57	99,460	1.00	7910	
004400G	90	09/15/2006	L	4.00 X 8.00	12.57	113,470	1.00	9030	
004400H	90	09/15/2006	L	4.00 X 8.00	12.57	114,740	1.00	9130	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9080

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004401

PLACEMENT DATA

Placement # :	53	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	14 of 17	Slump :	8.00 in	ASTM C143
Sample time :	08:00	Air temp :	650 deg F	
Sampled by :	Eric English	Mix temp :	70 deg F	ASTM C1064
Ticket/Truck :	1174599 / 3004			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row D.5 line 11, pile cap row A to K line 1 to 12

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004401A	7	06/24/2006	L	4.00 X 8.00	12.57	56,170	1.00	4470	
004401B	14	07/01/2006	L	4.00 X 8.00	12.57	69,450	1.00	5530	
004401C	28	07/15/2006	L	4.00 X 8.00	12.57	82,010	1.00	6530	
004401D	28	07/15/2006	L	4.00 X 8.00	12.57	85,660	1.00	6820	
004401E	56	08/12/2006	L	4.00 X 8.00	12.57	103,310	1.00	8220	
004401F	56	08/12/2006	L	4.00 X 8.00	12.57	101,790	1.00	8100	
004401G	90	09/15/2006	L	4.00 X 8.00	12.57	110,580	1.00	8800	
004401H	90	09/15/2006	L	4.00 X 8.00	12.57	107,010	1.00	8520	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8660

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004402

PLACEMENT DATA

Placement # :	53	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	15 of 17	Slump :	9.00 in	ASTM C143
Sample time :	08:35	Air temp :	65 deg F	
Sampled by :	Eric English	Mix temp :	68 deg F	ASTM C1064
Ticket/Truck :	1174613 / 2903			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row F line 11

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004402A	7	06/24/2006	L	4.00 X 8.00	12.57	55,450	1.00	4410	
004402B	14	07/01/2006	L	4.00 X 8.00	12.57	76,920	1.00	6120	
004402C	28	07/15/2006	L	4.00 X 8.00	12.57	92,910	1.00	7390	
004402D	28	07/15/2006	L	4.00 X 8.00	12.57	89,390	1.00	7110	
004402E	56	08/12/2006	L	4.00 X 8.00	12.57	102,830	1.00	8180	
004402F	56	08/12/2006	L	4.00 X 8.00	12.57	104,210	1.00	8290	
004402G	90	09/15/2006	L	4.00 X 8.00	12.57	115,990	1.00	9230	
004402H	90	09/15/2006	L	4.00 X 8.00	12.57	119,220	1.00	9490	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9360

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004403

PLACEMENT DATA

Placement # :	53	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	17	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	16 of 17	Slump :	9.00 in	ASTM C143
Sample time :	09:22	Air temp :	68 deg F	
Sampled by :	Eric English	Mix temp :	71 deg F	ASTM C1064
Ticket/Truck :	2000453 / 2907			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A - K lines 1 - 12

Sample Location : row D line 11 top lift

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004403A	7	06/24/2006	L	4.00 X 8.00	12.57	54,080	1.00	4300	
004403B	14	07/01/2006	L	4.00 X 8.00	12.57	73,480	1.00	5850	
004403C	28	07/15/2006	L	4.00 X 8.00	12.57	86,240	1.00	6860	
004403D	28	07/15/2006	L	4.00 X 8.00	12.57	87,500	1.00	6960	
004403E	56	08/12/2006	L	4.00 X 8.00	12.57	104,030	1.00	8280	
004403F	56	08/12/2006	L	4.00 X 8.00	12.57	103,060	1.00	8200	
004403G	90	09/15/2006	L	4.00 X 8.00	12.57	110,520	1.00	8790	
004403H	90	09/15/2006	L	4.00 X 8.00	12.57	112,710	1.00	8970	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8880

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004404

PLACEMENT DATA

Placement #: 53
Sample date: 06/17/2006
Total sets: 17
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 17 of 17
Sample time: 10:08
Sampled by: Eric English
Ticket/Truck: 1576117 / 1608T
Mold type: CYL

Slump: 10.00 in ASTM C143
Air temp: 70 deg F
Mix temp: 74 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 - 12

Sample Location: row D.5 line 11, top 12"

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004404A	7	06/24/2006	L	4.00 X 8.00	12.57	47,770	1.00	3800	
004404B	14	07/01/2006	L	4.00 X 8.00	12.57	70,120	1.00	5580	
004404C	28	07/15/2006	L	4.00 X 8.00	12.57	81,330	1.00	6470	
004404D	28	07/15/2006	L	4.00 X 8.00	12.57	83,870	1.00	6670	
004404E	56	08/12/2006	L	4.00 X 8.00	12.57	100,710	1.00	8010	
004404F	56	08/12/2006	L	4.00 X 8.00	12.57	99,270	1.00	7900	
004404G	90	09/15/2006	L	4.00 X 8.00	12.57	116,530	1.00	9270	
004404H	90	09/15/2006	L	4.00 X 8.00	12.57	115,030	1.00	9150	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9210

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004405

PLACEMENT DATA

Placement #: 54
Sample date: 06/17/2006
Total sets: 11
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 1 of 11
Sample time: 12:20
Sampled by: Rex Allen Brogdon
Ticket/Truck: 1174433 / 3009
Mold type: CYL

Slump: 8.00 in ASTM C143
Air temp: 63 deg F
Mix temp: 72 deg F ASTM C1064

Placement Location: Tower mat pour, rows A to K lines 1 to 12

Sample Location: Row H4 to G.8 to H at line 3.8 to 5.2, 1st lift

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004405A	7	06/24/2006	L	4.00 X 8.00	12.57	57,250	1.00	4560	
004405B	14	07/01/2006	L	4.00 X 8.00	12.57	70,130	1.00	5580	
004405C	28	07/15/2006	L	4.00 X 8.00	12.57	86,780	1.00	6910	
004405D	28	07/15/2006	L	4.00 X 8.00	12.57	85,960	1.00	6840	
004405E	56	08/12/2006	L	4.00 X 8.00	12.57	103,750	1.00	8260	
004405F	56	08/12/2006	L	4.00 X 8.00	12.57	106,880	1.00	8510	
004405G	90	09/15/2006	L	4.00 X 8.00	12.57	120,750	1.00	9610	
004405H	90	09/15/2006	L	4.00 X 8.00	12.57	115,910	1.00	9220	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9420

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004406

PLACEMENT DATA

Placement #: 54
Sample date: 06/17/2006
Total sets: 11
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 2 of 11
Sample time: 02:25
Sampled by: Rex Allen Brogdon
Ticket/Truck: 32065774 / 3010
Mold type: CYL

Slump: 9.50 in ASTM C143
Air temp: 62 deg F
Mix temp: 70 deg F ASTM C1064

Placement Location: Tower mat pour, rows A to K lines 1 to 12

Sample Location: row H to H.5 line 1 to 2

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004406A	7	06/24/2006	L	4.00 X 8.00	12.57	46,670	1.00	3710	
004406B	14	07/01/2006	L	4.00 X 8.00	12.57	67,120	1.00	5340	
004406C	28	07/15/2006	L	4.00 X 8.00	12.57	81,480	1.00	6480	
004406D	28	07/15/2006	L	4.00 X 8.00	12.57	82,140	1.00	6540	
004406E	56	08/12/2006	L	4.00 X 8.00	12.57	104,420	1.00	8310	
004406F	56	08/12/2006	L	4.00 X 8.00	12.57	107,600	1.00	8560	
004406G	90	09/15/2006	L	4.00 X 8.00	12.57	110,840	1.00	8820	
004406H	90	09/15/2006	L	4.00 X 8.00	12.57	112,290	1.00	8940	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8880

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

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San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004407

PLACEMENT DATA

Placement # :	54	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	11	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	3 of 11	Slump :	9.00 in	ASTM C143
Sample time :	03:05	Air temp :	62 deg F	
Sampled by :		Mix temp :	685 deg F	ASTM C1064
Ticket/Truck :	NONE / 2916			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A to K lines 1 to 12

Sample Location : row J.1 to K line 3 to 4

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004407A	7	06/24/2006	L	4.00 X 8.00	12.57	53,210	1.00	4230	
004407B	14	07/01/2006	L	4.00 X 8.00	12.57	70,120	1.00	5580	
004407C	28	07/15/2006	L	4.00 X 8.00	12.57	88,510	1.00	7040	
004407D	28	07/15/2006	L	4.00 X 8.00	12.57	89,600	1.00	7130	
004407E	56	08/12/2006	L	4.00 X 8.00	12.57	103,310	1.00	8220	
004407F	56	08/12/2006	L	4.00 X 8.00	12.57	99,470	1.00	7920	
004407G	90	09/15/2006	L	4.00 X 8.00	12.57	109,910	1.00	8750	
004407H	90	09/15/2006	L	4.00 X 8.00	12.57	112,200	1.00	8930	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8840

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004408

PLACEMENT DATA

Placement # :	54	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	11	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	4 of 11	Air temp :	60 deg F	
Sample time :	03:38	Mix temp :	65 deg F	ASTM C1064
Sampled by :	Rex Allen Brogdon			
Ticket/Truck :	32065796 / 2990			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A to K lines 1 to 12

Sample Location : row G.8 to J.1 line 1 to 2, 3rd lift

Comments : Excessive slump, material was seperating

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004408A	7	06/24/2006	L	4.00 X 8.00	12.57	32,240	1.00	2570	
004408B	14	07/01/2006	L	4.00 X 8.00	12.57	51,690	1.00	4110	
004408C	8	06/25/2006	L	4.00 X 8.00	12.57	55,130	1.00	4390	
004408D	28	07/15/2006	L	4.00 X 8.00	12.57	56,890	1.00	4530	
004408E	56	08/12/2006	L	4.00 X 8.00	12.57	69,490	1.00	5530	
004408F	56	08/12/2006	L	4.00 X 8.00	12.57	67,810	1.00	5400	
004408G	90	09/15/2006	L	4.00 X 8.00	12.57	80,400	1.00	6400	
004408H	90	09/15/2006	L	4.00 X 8.00	12.57	76,030	1.00	6050	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=6230

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004409

PLACEMENT DATA

Placement #: 54
Sample date: 06/17/2006
Total sets: 11
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 5 of 11
Sample time: 04:20
Sampled by: Rex Allen Brogdon
Ticket/Truck: NONE / 2993
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 62 deg F
Mix temp: 69 deg F ASTM C1064

Placement Location: Tower mat pour, rows A to K lines 1 to 12

Sample Location: row F.5 to G.8 line 1 to 2.5

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004409A	7	06/24/2006	L	4.00 X 8.00	12.57	49,770	1.00	3960	
004409B	14	07/01/2006	L	4.00 X 8.00	12.57	69,130	1.00	5500	
004409C	28	07/15/2006	L	4.00 X 8.00	12.57	83,630	1.00	6660	
004409D	28	07/15/2006	L	4.00 X 8.00	12.57	79,990	1.00	6370	
004409E	56	08/12/2006	L	4.00 X 8.00	12.57	109,380	1.00	8700	
004409F	56	08/12/2006	L	4.00 X 8.00	12.57	104,990	1.00	8350	
004409G	90	09/15/2006	L	4.00 X 8.00	12.57	112,760	1.00	8970	
004409H	90	09/15/2006	L	4.00 X 8.00	12.57	114,140	1.00	9080	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9030

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

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RPT TO: Online Reporting
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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004410

PLACEMENT DATA

Placement #: 54
Sample date: 06/17/2006
Total sets: 11
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 6 of 11
Sample time: 04:50
Sampled by: Rex Allen Brogdon
Ticket/Truck: 2000381 / 2896
Mold type: CYL

Slump: 8.00 in ASTM C143
Air temp: 61 deg F
Mix temp: 69 deg F ASTM C1064

Placement Location: Tower mat pour, rows A to K lines 1 to 12

Sample Location: row F to G line 1 to 2.5

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004410A	7	06/24/2006	L	4.00 X 8.00	12.57	64,800	1.00	5160	
004410B	14	07/01/2006	L	4.00 X 8.00	12.57	80,130	1.00	6380	
004410C	28	07/15/2006	L	4.00 X 8.00	12.57	93,980	1.00	7480	
004410D	28	07/15/2006	L	4.00 X 8.00	12.57	91,310	1.00	7270	
004410E	56	08/12/2006	L	4.00 X 8.00	12.57	100,200	1.00	7970	
004410F	56	08/12/2006	L	4.00 X 8.00	12.57	103,930	1.00	8270	
004410G	90	09/15/2006	L	4.00 X 8.00	12.57	120,780	1.00	9610	
004410H	90	09/15/2006	L	4.00 X 8.00	12.57	117,550	1.00	9350	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9480

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004411

PLACEMENT DATA

Placement #: 54
Sample date: 06/17/2006
Total sets: 11
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 7 of 11
Sample time: 05:28
Sampled by: Rex Allen Brogdon
Ticket/Truck: 2000394 / 2918
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 61 deg F
Mix temp: 68 deg F ASTM C1064

Placement Location: Tower mat pour, rows A to K lines 1 to 12

Sample Location: row E to F line 1 to 3

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004411A	7	06/24/2006	L	4.00 X 8.00	12.57	49,820	1.00	3960	
004411B	14	07/01/2006	L	4.00 X 8.00	12.57	63,120	1.00	5020	
004411C	28	07/15/2006	L	4.00 X 8.00	12.57	83,930	1.00	6680	
004411D	28	07/15/2006	L	4.00 X 8.00	12.57	79,990	1.00	6370	
004411E	56	08/12/2006	L	4.00 X 8.00	12.57	100,110	1.00	7970	
004411F	56	08/12/2006	L	4.00 X 8.00	12.57	101,170	1.00	8050	
004411G	90	09/15/2006	L	4.00 X 8.00	12.57	111,390	1.00	8860	
004411H	90	09/15/2006	L	4.00 X 8.00	12.57	110,010	1.00	8750	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8810

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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RE:301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004412

PLACEMENT DATA

Placement #: 54
Sample date: 06/17/2006
Total sets: 11
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 8 of 11
Sample time: 05:40
Sampled by: Rex Allen Brogdon
Ticket/Truck: NONE / 2907
Mold type: CYL

Slump: 9.00 in ASTM C143
Air temp: 62 deg F
Mix temp: 69 deg F ASTM C1064

Placement Location: Tower mat pour, rows A to K lines 1 to 12

Sample Location: row D to D.5 line 1 to 2.5

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004412A	7	06/24/2006	L	4.00 X 8.00	12.57	59,970	1.00	4770	
004412B	14	07/01/2006	L	4.00 X 8.00	12.57	69,990	1.00	5570	
004412C	28	07/15/2006	L	4.00 X 8.00	12.57	89,950	1.00	7160	
004412D	28	07/15/2006	L	4.00 X 8.00	12.57	90,130	1.00	7170	
004412E	56	08/12/2006	L	4.00 X 8.00	12.57	108,470	1.00	8630	
004412F	56	08/12/2006	L	4.00 X 8.00	12.57	107,210	1.00	8530	
004412G	90	09/15/2006	L	4.00 X 8.00	12.57	116,350	1.00	9260	
004412H	90	09/15/2006	L	4.00 X 8.00	12.57	120,050	1.00	9550	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=9410

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004413

PLACEMENT DATA

Placement #: 54
Sample date: 06/17/2006
Total sets: 11
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 9 of 11
Sample time: 07:29
Sampled by: Ronald A. Brown
Ticket/Truck: 1575934 / 1177
Mold type: CYL

Slump: 10.00 in ASTM C143
Air temp: 71 deg F
Mix temp: 81 deg F ASTM C1064

Placement Location: Tower mat pour, rows A to K lines 1 to 12

Sample Location: line 5 to 7 row F to F.5

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004413A	7	06/24/2006	L	4.00 X 8.00	12.57	43,470	1.00	3460	
004413B	14	07/01/2006	L	4.00 X 8.00	12.57	71,360	1.00	5680	
004413C	28	07/15/2006	L	4.00 X 8.00	12.57	76,270	1.00	6070	
004413D	28	07/15/2006	L	4.00 X 8.00	12.57	77,250	1.00	6150	
004413E	56	08/12/2006	L	4.00 X 8.00	12.57	97,030	1.00	7720	
004413F	56	08/12/2006	L	4.00 X 8.00	12.57	100,060	1.00	7960	
004413G	90	09/15/2006	L	4.00 X 8.00	12.57	113,810	1.00	9060	
004413H	90	09/15/2006	L	4.00 X 8.00	12.57	109,610	1.00	8720	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8890

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004414

PLACEMENT DATA

Placement #: 54
Sample date: 06/17/2006
Total sets: 11
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: WR

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.65 sack
Slump spec: 10.00 in

SET DATA

Set number: 10 of 11
Sample time: 07:55
Sampled by: Ronald A. Brown
Ticket/Truck: 1575992 / 1144
Mold type: CYL

Slump: 10.00 in ASTM C143
Air temp: 72 deg F
Mix temp: 81 deg F ASTM C1064

Placement Location: Tower mat pour, rows A to K lines 1 to 12

Sample Location: row F to F.5 line 2 to 3

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004414A	7	06/24/2006	L	4.00 X 8.00	12.57	39,130	1.00	3110	
004414B	14	07/01/2006	L	4.00 X 8.00	12.57	69,120	1.00	5500	
004414C	28	07/15/2006	L	4.00 X 8.00	12.57	71,120	1.00	5660	
004414D	28	07/15/2006	L	4.00 X 8.00	12.57	71,450	1.00	5690	
004414E	56	08/12/2006	L	4.00 X 8.00	12.57	83,530	1.00	6650	
004414F	56	08/12/2006	L	4.00 X 8.00	12.57	88,210	1.00	7020	
004414G	90	09/15/2006	L	4.00 X 8.00	12.57	101,490	1.00	8080	
004414H	90	09/15/2006	L	4.00 X 8.00	12.57	104,540	1.00	8320	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8200

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004415

PLACEMENT DATA

Placement # :	54	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	11	Agg. Size/Src	1" /
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.65 sack
Material Supplier :	Central Concrete Supply	Slump spec :	10.00 in
Admixture type :	WR		

SET DATA

Set number :	11 of 11	Slump :	10.00 in	ASTM C143
Sample time :	08:50	Air temp :	73 deg F	
Sampled by :	Ron Rogers	Mix temp :	82 deg F	ASTM C1064
Ticket/Truck :	1576045 / 7091			
Mold type :	CYL			

Placement Location : Tower mat pour, rows A to K lines 1 to 12

Sample Location : line 10.5 to 12 row D.7 to E

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004415A	7	06/24/2006	L	4.00 X 8.00	12.57	37,930	1.00	3020	
004415B	14	07/01/2006	L	4.00 X 8.00	12.57	66,360	1.00	5280	
004415C	28	07/15/2006	L	4.00 X 8.00	12.57	67,020	1.00	5330	
004415D	28	07/15/2006	L	4.00 X 8.00	12.57	66,340	1.00	5280	
004415E	56	08/12/2006	L	4.00 X 8.00	12.57	84,120	1.00	6690	
004415F	56	08/12/2006	L	4.00 X 8.00	12.57	81,460	1.00	6480	
004415G	90	09/15/2006	L	4.00 X 8.00	12.57	92,940	1.00	7400	
004415H	90	09/15/2006	L	4.00 X 8.00	12.57	96,390	1.00	7670	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=7540

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
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RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004416

PLACEMENT DATA

Placement # :	55	Mix Number	32112
Sample date :	06/17/2006	Strength Spec	6000 psi @ 90 days
Total sets :	1		
Material type :	Concrete Compression Cyl. ASTM C 39	Cement factor	6.50 sack
Material Supplier :	Central Concrete Supply	Slump spec :	8.00 in
Admixture type :	wrda64 adva100		

SET DATA

Set number :	1 of 1	Slump :	9.00 in	ASTM C143
Sample time :	06:10	Air temp :	60 deg F	
Sampled by :	Stanley D Van Tassel	Mix temp :	70 deg F	ASTM C1064
Ticket/Truck :	09033679 / 1195			
Mold type :	CYL			

Placement Location : pile caps

Sample Location : pile caps

Comments :

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004416A	7	06/24/2006	L	4.00 X 8.00	12.57	39,020	1.00	3110	
004416B	14	07/01/2006	L	4.00 X 8.00	12.57	65,350	1.00	5200	
004416C	28	07/15/2006	L	4.00 X 8.00	12.57	71,990	1.00	5730	
004416D	28	07/15/2006	L	4.00 X 8.00	12.57	68,860	1.00	5480	
004416E	56	08/12/2006	L	4.00 X 8.00	12.57	91,210	1.00	7260	
004416F	56	08/12/2006	L	4.00 X 8.00	12.57	90,860	1.00	7230	
004416G	90	09/15/2006	L	4.00 X 8.00	12.57	105,130	1.00	8370	
004416H	90	09/15/2006	L	4.00 X 8.00	12.57	106,800	1.00	8500	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=8440

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering , James Powers , LAB MANAGER

DATE OF ISSUE: 10/19/2006

COMPRESSION TEST REPORT

RPT TO: Online Reporting
Email Reports to:
jes@ce-labs.com

RE: 301 Mission Street
301 Mission Street
San Francisco, CA 94105

ATTN: James E. Sisson

PERMIT/APP #: 2002-1023-9696
FILE #:
CEL #: 1019550
LAB #: 004417

PLACEMENT DATA

Placement #: 56
Sample date: 06/17/2006
Total sets: 1
Material type: Concrete Compression Cyl. ASTM C 39
Material Supplier: Central Concrete Supply
Admixture type: wrda64 adva100 caltite

Mix Number 32112
Strength Spec 6000 psi @ 90 days
Agg. Size/Src 1" /
Cement factor 6.50 sack
Slump spec: 8.00 in

SET DATA

Set number: 1 of 1
Sample time: 00:55
Sampled by: Rex Allen Brogdon
Ticket/Truck: NONE / 5137
Mold type: CYL

Slump: 9.50 in ASTM C143
Air temp: 64 deg F
Mix temp: 73 deg F ASTM C1064

Placement Location: Tower mat pour, rows A - K lines 1 -12 (caltite)

Sample Location: row D.5 to E line 7.1, 1st lift

Comments:

CYL #	TEST AGE	TEST DATE	CURE TYPE	DIMENSIONS (in) DIAMETER X HEIGHT	AREA (sq. in)	MAXIMUM LOAD (lb)	CORR FACT	STRENGTH (psi)	FRAC TYPE
004417A	7	06/24/2006	L	4.00 X 8.00	12.57	28,860	1.00	2300	
004417B	14	07/01/2006	L	4.00 X 8.00	12.57	56,120	1.00	4470	
004417C	28	07/15/2006	L	4.00 X 8.00	12.57	54,970	1.00	4370	
004417D	28	07/15/2006	L	4.00 X 8.00	12.57	56,020	1.00	4460	
004417E	56	08/12/2006	L	4.00 X 8.00	12.57	73,760	1.00	5870	
004417F	56	08/12/2006	L	4.00 X 8.00	12.57	75,980	1.00	6050	
004417G	90	09/15/2006	L	4.00 X 8.00	12.57	84,510	1.00	6730	
004417H	90	09/15/2006	L	4.00 X 8.00	12.57	82,900	1.00	6600	

Samples MEET specified 90 DAY strength requirement at 90 DAYS. Avg=6670

Curing Type: L = lab, F = field

Fracture types: A=cone and columnar, B=columnar, C=diagonal, D=side, E=double side

Unless otherwise noted, samples tested in accordance with ASTM C39

RESPECTFULLY SUBMITTED: Consolidated Engineering, James Powers, LAB MANAGER