



COLUMBIA RESEARCH & TESTING

# *FINAL REPORT*

*PREPARED FOR:  
SONOMA CUTRER*

*SONOMA CUTRER VINEYARDS  
EAST CELLAR  
PROJECT PHASE 5  
4401 SLUSSER ROAD  
SANTA ROSA CA*

*CRT No.: 99010  
JANUARY 30, 2001*



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Vineyards  
Grand Cru Cellars Project Phase 5  
4401 Slusser Road  
Santa Rosa CA

Date: January 30, 2001  
CRT No.: 99010

**LABORATORY FINAL VERIFIED REPORT**

This is to certify that all of the materials tested and work inspected meet the requirements of the approved documents and Section 1701 of the California Building Code (CBC).

These tests and reports have been performed by approved special inspectors of Columbia Research & Testing Corporation and included herein:

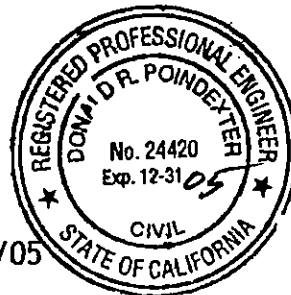
- ❖ Concrete Mix Design Review
- ❖ Concrete Placement Observation & Reporting
- ❖ Cast Concrete Compression Reports
- ❖ Reinforcing Steel Placement Observation & Reporting
- ❖ Misc. Observation & Reporting - Epoxy

I declare I have read the above listed reports and know the contents thereof and that all of above statements are true.

**COLUMBIA RESEARCH & TESTING**

By: 

Don Poindexter, C.E. & G. E.  
Civil Engineer, C24420, Exp. 12/31/05  
Geotechnical Engineer, G-690, Exp. 12/31/05



CC: AOR SEOR PI DSA



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V

Date: 05/27/99

CRT No.: 99010

**EPOXY  
FIELD INSPECTION REPORT**

Contractor: Sonoma Cutrer

<b>Inspector Date</b>	<b>Description of Inspected Work</b>	<b>Remarks</b>
M. Barry 05/27/99	Visually inspected the installation of the following: #5 dowels into existing footing along Line BB between AA & 5 Per revised detail 3/S5.1 Dated 5-3-99 Dowels installed in 3/4 x 18" holes using Simpson epoxy	Completed Satisfactorily per plans

  
COLUMBIA RESEARCH & TESTING



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V

Date: 06/03/99

CRT No.: 99010

**FIELD INSPECTION REPORT  
EPOXY**

Contractor: Sonoma Cutrer

<b>Inspector Date</b>	<b>Description of Inspected Work</b>	<b>Remarks</b>
M. Barry 06/03/99	Visually inspected the placement of:  #5 Vertical rebar into 3/4 x 22" holes C4 Total 32	Installed satisfactorily per instructions

COLUMBIA RESEARCH & TESTING



ZFA Structural Engineers  
 1212 Fourth Street, Suite Z  
 Santa Rosa, CA 95404  
 Voice: (707) 526-0992  
 Fax: (707) 526-0217

**FACSIMILE  
 COVER SHEET**

To: CHARLES

Company: \_\_\_\_\_

Fax Number: \_\_\_\_\_

From: MIKE

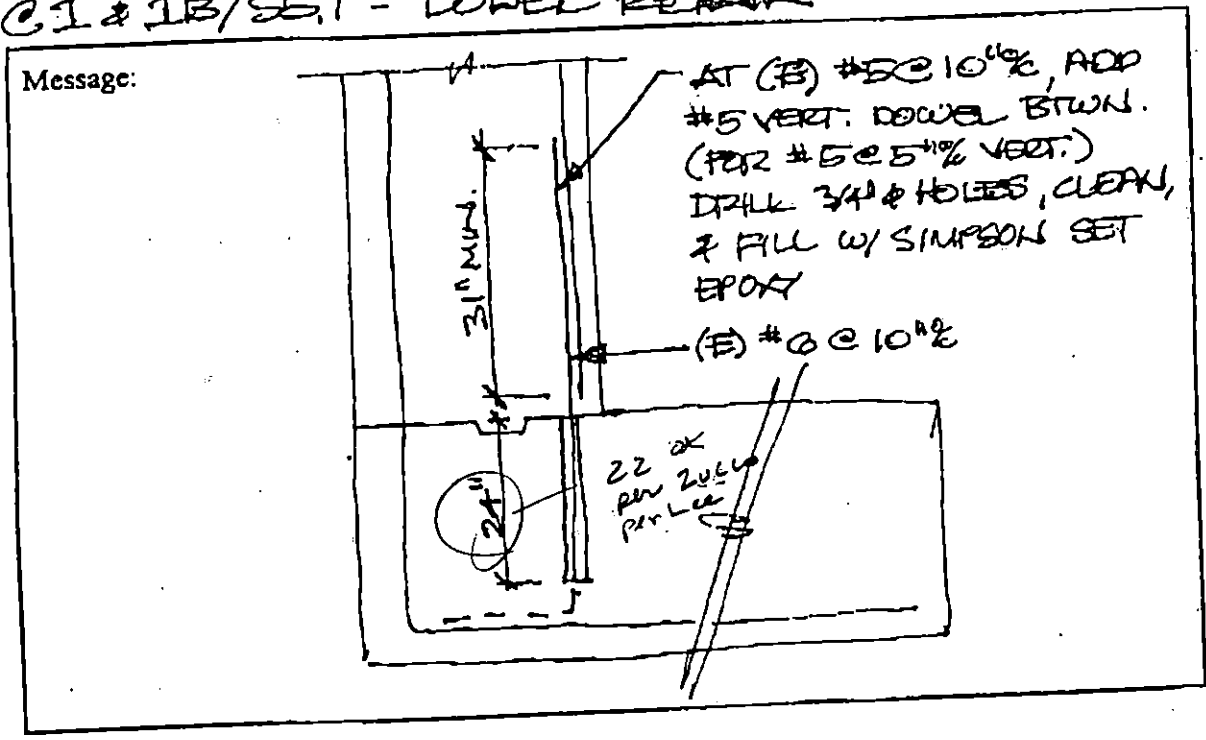
Re: S/C PHASE 5

Date: 2 JUL 99 Time: 10:20

Total Pages (including cover page): 1

ZFA Project Number: \_\_\_\_\_

CI & IB/SEI - TOWER REPAIR



COPIES TO:



COLUMBIA RESEARCH & TESTING

Project: Sonoma Cutrer Phase V

Date: 05/27/99

CRT No.: 99010

CONCRETE REINFORCING STEEL PLACEMENT REPORT

Contractor: Sonoma Cutrer

Inspector Date	Description of Inspected Work	Remarks
M. Barry 05/27/99	<p>Visually inspected reinforcing steel placement in the following areas:</p> <p>In Columns along Line AA from A.3 - W.1            11 = #8 rebar vert. w/#3 rebar ties at 5" top and bottom 3' 10" Bal.            Per detail 4/S2            2 = #4 rebar dowels at 4' into existing wall</p>	Completed Satisfactorily per plans

  
 COLUMBIA RESEARCH & TESTING



COLUMBIA RESEARCH & TESTING

Project: Sonoma Cutrer Phase V


Date: 05/28/99

CRT No.: 99010

**FIELD INSPECTION REPORT**

Contractor: Sonoma Cutrer

<b>Inspector Date</b>	<b>Description of Inspected Work</b>	<b>Remarks</b>
D. Arnett 05/28/99	Visually inspected the placement of #5 rebar 'L' reinforcing steel into existing footing A.) Holes size & depth 3/4" X 18" B.) Plans & specifications detail #3 (revised) dated 05/03/99 C.) Epoxy used Simpson set high-strength Epoxy ICBO ER-5274 D.) Completed 58	All holes were drilled to proper size depth, brushed and cleaned with compressed air. All work was performed as per plans and specs.

  
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**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V

Date: 06/03/99

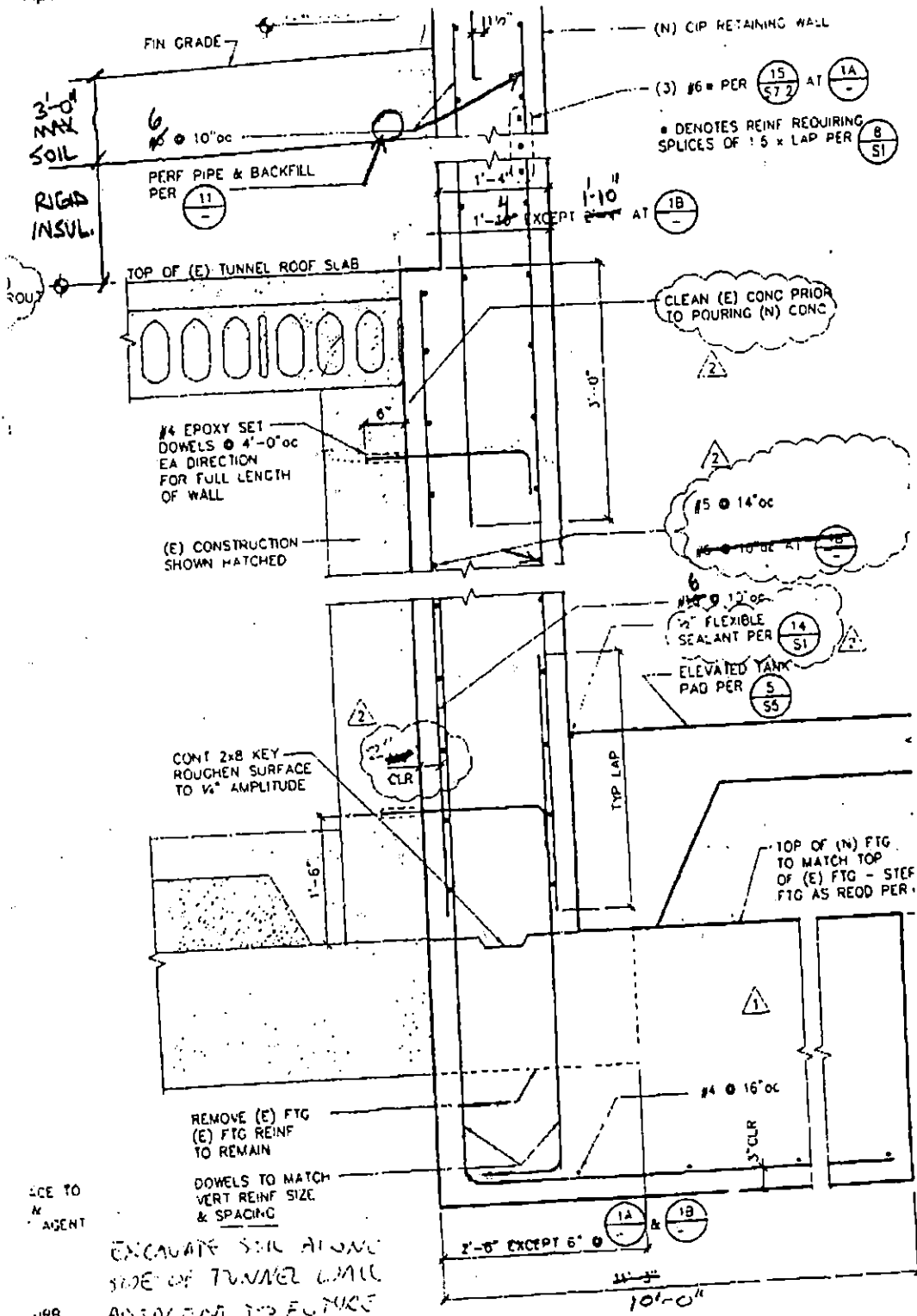
CRT No.: 99010

**CONCRETE REINFORCING STEEL PLACEMENT REPORT**

Contractor: Sonoma Cutrer

<b>Inspector Date</b>	<b>Description of Inspected Work</b>	<b>Remarks</b>
D. Arnett 06/08/99	Visually inspected reinforcing steel placement in the following areas: Side of Tunnel Wall (Line C.4/4-4.4) 1.) #5 rebar horizontal at 14" on center front & back 2.) #5 rebar vertical at 5" on center front 3.) #6 rebar vertical at 10" on center back 4.) Plans & Detail sheet S5.1 detail 1 and ZFA detail dated June 02, 1999.	All reinforcing steel was placed as per plans and details. Proper clearance and spacing was maintained throughout.

  
\_\_\_\_\_  
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SEE TO AGENT

1198  
#6 @ 9' OC

#4 OF REINCH  
#4 @ 9' FTG  
13  
51

EXCAVATE SOIL ALONG  
SIDE OF TUNNEL WALL  
ADJACENT TO FUTURE  
BUILDING. D.C.A. TO LEVEL  
OF TUNNEL FTG. DO NOT  
BACKFILL

1 1A 1B

11" Fax Note	7671	Date 3/27	Rev 1
DUM T.		From R/LM	
Contract S/WMA-CUT		On 2EA	
Project		Sheet	
Fax # 569-1407		Fax #	

SS.1



ZFA Structural Engineers  
 1212 Fourth Street, Suite Z  
 Santa Rosa, CA 95404  
 Voice: (707) 526-0992  
 Fax: (707) 526-0217

**FACSIMILE  
 COVER SHEET**

To: CHARLES

Company: \_\_\_\_\_

Fax Number: \_\_\_\_\_

From: MIKE

Re: 3/C PHASE 5

Date: 2 JUL 97 Time: 10:20

Total Pages (including cover page): 1

ZFA Project Number: \_\_\_\_\_

CI & IB/SEI - TOWER REPAIR

Message:

AT (E) #5 @ 10" O.C., ADD #5 VERT. DOWEL BTWN. (FOR #5 @ 5" O.C. VERT.) DRILL 3/4" HOLES, CLEAN, & FILL W/ SIMPSONS SET EPOXY

(E) #6 @ 10" O.C.

COPIES TO:



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V


Date: 06/03/99

CRT No.: 99010

**CONCRETE REINFORCING STEEL PLACEMENT REPORT**

Contractor: Sonoma Cutrer

<b>Inspector Date</b>	<b>Description of Inspected Work</b>	<b>Remarks</b>
M. Barry 06/03/99	Visually inspected reinforcing steel placement in the following areas:  In Columns along Line AA-V.1, AA-V, AA-T (11) #8 rebar vert at CC9 with #3 ties (13) #8 vert at CC10 with #3 ties  Per details 4/S2	Completed Satisfactorily per plans



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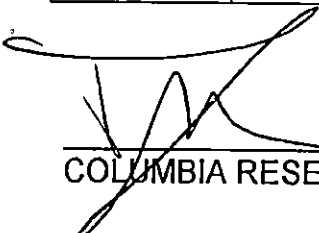
Project: Sonoma Cutrer Phase V

Date: 12/06/99  
CRT No. 99010

**REINFORCING STEEL PLACEMENT  
MECHINACIAL ROOM ROOF SLAB**

Contractor: Sonoma Cutrer/Soave Construction

Inspector Date	Description of Inspected Work	Remarks
D .Arnett 12/06/99	<p>Visually inspected the placement of steel being placed in the following areas: Structure: Mechanical Room Slab - Grid area X-ZX/2-2.1 Line</p> <p>#5 @ 12" on center each way - Per detail 3/S7</p> <p>2 - #9 rebar @ 6" on center - Per detail 10/S7</p> <p>#6 rebar top and bottom @ 8" on center # 4 rebar top and bottom @ 16" on center Engineer section attached to wall</p> <p>#3 rebar ties @ 12" on center - Per detail 2/S5.1</p> <p>#8 rebar each face @ top of wall - Per detail 6/S7.3</p> <p>3 - #9 rebar @ 6" on center continuous -- Per detail 17/S7.3</p> <p>CC055 Columns - 6 - #8 rebar vertical &amp; #4 rebar @ 3" from top &amp; bottom and 10" on center remainder - Per detail 4/S2</p>	Reinforcing steel bars were installed properly per plans and specs. Completed satisfactorily.



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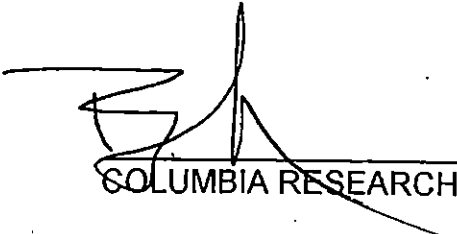
Project: Sonoma Cutrer Phase V

Date: 12/10/99  
CRT No. 99010

**FIELD INSPECTION REPORT  
REINFORCING STEEL PLACEMENT**

Contractor: Sonoma Cutrer/Soave Construction

<b>Inspector Date</b>	<b>Description of Inspected Work</b>	<b>Remarks</b>
B. Medrano 12/10/99	Visually inspected the placement of steel being placed in the following areas:  Structure: Steel in Wall @ Mezzanine Tank Pad  #5 rebar 9" on center vertical #4 rebar on center horizontal inside #4 rebar 12" on center each way outside Per detail 3/S7	Reinforcing steel bars were installed properly per plans.



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Project: Sonoma Cutrer Phase V

Date: 12/10/99  
CRT No. 99010

**FIELD INSPECTION REPORT  
REINFORCING STEEL PLACEMENT**

Contractor: Sonoma Cutrer/Soave Construction

Inspector Date	Description of Inspected Work	Remarks
B. Medrano 12/10/99	Visually inspected the placement of steel being placed in the following areas:  Structure: Roof Slab  8 rebar #9 around perimeter #3 rebar Ties @ 12" Line A 2.1-4 Line 4 A-V, Line 2.1 A-V Slab #5 @ 12" Each Way Per detail 3A/S2 2 rebar #4 @ cavity between planks.	Reinforcing steel bars were installed properly per plans.



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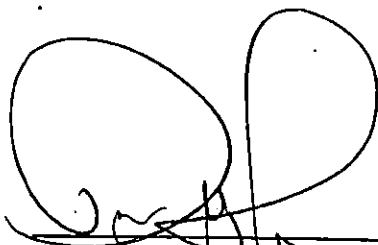
Project: Sonoma Cutrer Phase V

Date: 12/08/99  
CRT No. 99010

**CONCRETE REINFORCING STEEL PLACEMENT**

Contractor: Sonoma Cutrer/Soave Construction

<b>Inspector Date</b>	<b>Description of Inspected Work</b>	<b>Remarks</b>
PGL 12/08/99	Visually inspected the placement of steel being placed in the following areas:  Structure: Blending Room  #4 rebar reinforcing steel 16" on center each way  Area by Cellar - #4 rebar reinforcing steel 12" on center each way	Reinforcing steel bars were installed properly per detailed plans.



COLUMBIA RESEARCH & TESTING

Project: Sonoma Cutrer Phase V

Date: 11/30/99  
CRT No. 99010

**FIELD INSPECTION REPORT  
REINFORCING STEEL PLACEMENT**

Contractor: Sonoma Cutrer/Soave Construction

Inspector Date	Description of Inspected Work	Remarks
B. Medrano 11/30/99	<p>Visually inspected the placement of steel being placed in the following areas:</p> <p>Structure: SOG/Tilt Panels</p> <p>Location: BB-X.1/AA-5, Panels 55,56, &amp; 57</p> <p>Reinforcing steel bars are installed satisfactorily as per detailed plan of 2/S1, 8/S5.1, &amp; 8/S5 – for SOG, 11/S6.1 – for Panels</p>	Reinforcing steel bars were installed properly per detailed plans.



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**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V

Date: 11/22/99  
CRT No. 99010

**FIELD INSPECTION REPORT  
REINFORCING STEEL PLACEMENT**

Contractor: Sonoma Cutrer/Soave Construction

<b>Inspector Date</b>	<b>Description of Inspected Work</b>	<b>Remarks</b>
B. Medrano 11/22/99	Visually inspected the placement of steel being placed in the following areas:  Structure: Concrete Panels  Location: Panels 51, 52, 53, & 54  Reinforcing steel bars are installed satisfactorily as per detailed plan of 11/S6.1	Reinforcing steel bars were installed properly per detailed plans.

**COLUMBIA RESEARCH & TESTING**



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V

Date: 05/11/99

CRT No.: 99010

**CONCRETE REINFORCING STEEL PLACEMENT REPORT**

Contractor: Sonoma Cutrer

Inspector Date	Description of Inspected Work	Remarks
M. Barry 05/11/99	<p>Visually inspected reinforcing steel placement in the following areas:</p> <p>Line Y.0 - 4-5 #7 rebar at 6" top &amp; bottom long. #7 rebar at 6" bottom transverse #5 rebar at 16" top transverse Per detail 1/S5</p> <p>Line 5 C-Y.0 #5 rebar 12" on center top &amp; bottom long. #7 rebar 12" on center bottom transverse #5 rebar 16" on center top transverse 12 #8 rebar vertical at CC3 columns Per detail 1/S5</p> <p>Line C 4-5 #10 rebar transverse at 10" on center #14 rebar Long at 16" on center Per detail 1/S5</p>	Completed Satisfactorily per plans

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COLUMBIA RESEARCH & TESTING

Project: Sonoma Cutrer Phase V

Date: 04/15/99

CRT No.: 99010

CONCRETE REINFORCING STEEL PLACEMENT REPORT

Contractor: Sonoma Cutrer/Soave Const

Inspector Date	Description of Inspected Work	Remarks
M. Barry 04/15/99	<p>Visually inspected reinforcing steel placement in the following areas:</p> <p>Footing Line 4  #7 = 8" on center T &amp; B  #7 = 12" on center bottom transverse  #5 = 16" on center top transverse  8 = #8 at CC2 columns</p> <p>Footing Line Z  #5 = 12" on center top &amp; bottom  #7 = 12" on center bottom transverse  #5 = 16" on center top transverse</p> <p>Footing Line Y  Not completed. Will check in a.m. prior to pour</p> <p>Details 1/S5 4/S2</p>	Installed satisfactorily per plans except as noted.

Note: Need to establish clearance to earth in several places

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**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V

Date: 04/21/99

CRT No.: 99010

**CONCRETE REINFORCING STEEL PLACEMENT REPORT**

Contractor: Sonoma Cutrer/Soave Const

<b>Inspector Date</b>	<b>Description of Inspected Work</b>	<b>Remarks</b>
M. Barry 04/21/99	Visually inspected reinforcing steel placement in the following locations:  Line X & Line W #7 = 6" on center top & bottom long #7 = 6" on center transverse bottom #8 = 16" on center transverse top  Line V #7 = 8" on center top & bottom long #7 = 12" on center transverse bottom #5 = 16" on center transverse top  Line 2.1 #5 = 12" on center top & bottom horizontal #6 = 12" on center bottom transverse #5 = 16" on center top transverse	Installed satisfactorily per plans



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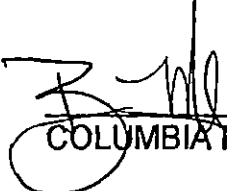
Project: Sonoma Cutrer Winery Phase V

Date 12/14/99  
CRT No. 99010

**REINFORCING STEEL BARS  
FIELD INSPECTION REPORT**

Contractor: Sonoma Cutrer/Soave Construction

Inspector Date	Description of Inspected Work	Remarks
B. Medrano Jr. 12/14/99	Visually inspected the following:  Structure: Slab on Grade  Location: EE-GG/ZZ-ZW  Reinforcing steel bars are satisfactorily installed as per detailed plan of 7/S5, 11/S5, 12/S5 & 2/S1	Completed satisfactorily



COLUMBIA RESEARCH & TESTING



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Project: Sonoma Cutrer Winery Phase V

Date 12/20/99  
CRT No. 99010

**REINFORCING STEEL BARS  
FIELD INSPECTION REPORT**

Contractor: Sonoma Cutrer/Soave Construction

Inspector Date	Description of Inspected Work	Remarks
B. Medrano Jr. 12/20/99	<p>Visually inspected the following:</p> <p>Structure: Slab on Grade/Footing</p> <p>Locations: ZZ – ZW/GG - HH (SOG) ZZ-ZW/HH (Ftg)</p> <p>Reinforcing steel bars are properly installed satisfactorily as per detailed plan of note #3B of 2/S1 for Slab on Grade and 12/S5 for footing.</p>	Completed satisfactorily

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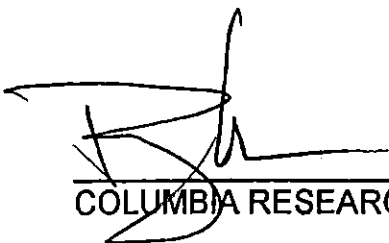
Project: Sonoma Cutrer Winery Phase V

Date 12/21/99  
CRT No. 99010

**REINFORCING STEEL BARS  
FIELD INSPECTION REPORT**

Contractor: Sonoma Cutrer/Soave Construction

<b>Inspector Date</b>	<b>Description of Inspected Work</b>	<b>Remarks</b>
B. Medrano Jr. 12/21/99	Visually inspected the following:  Structure: Slab on Grade  Locations: ZZ – ZX/CC-EE & X-V/2-2.1  Reinforcing steel bars are properly installed as per detailed plan of 11/S5, 2/S5.1/ 7/S5 & 2/S5 & note #3 of 2/S1	Completed satisfactorily



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**COLUMBIA RESEARCH & TESTING**

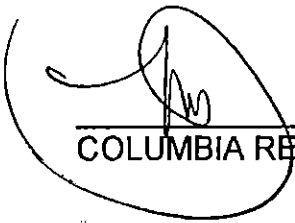
Project: Sonoma Cutrer Winery Phase V

Date 12/21/99  
CRT No. 99010

**CONCRETE REINFORCING STEEL PLACEMENT**

Contractor: Sonoma Cutrer/Soave Construction

Inspector Date	Description of Inspected Work	Remarks
M. Barry 01/03/2000	<p>Visually inspected the following:</p> <p>Structure: Footing @ Tank Pad</p> <p>Locations: Line ZZ</p> <p>Small tank pad next to above pad 2 - #4 rebar @ bottom #4 rebar 16" on center horizontal #4 rebar 12" on center vertical Per details 5/S5</p> <p>Wall @ Line U 2 - #4 rebar @ bottom #4 rebar 16" on center horizontal #4 rebar 12" on center vertical Per details 11/S5</p>	Installed satisfactorily per approved plans.



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**CONCRETE PLACEMENT INSPECTION REPORT**

Project: Sonoma Cutrer Contractor: Sonoma Cutrer/Soave Concrete

Date: 04/16/99 Job No: 99010

Concrete Supplier: Superior Mix No: 3241 5sk 3000PSI

Structure: Footing

Weather: Clear Air Temp: 90 Test Std: ASTM C143


Note - this is a two page report

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Slump	Concrete Temp	Cyl. Cast
10	137262	9:26	10:05	10:20	10	Z/3-3.2	4	60	0
10	137263	9:41	10:05	10:30	10	Z/3.2-3.3	3 1/2	61	4
10	137264	9:44	10:18	10:34	0	Z/3.3-3.4	3 1/2	61	0
10	137265	9:49	10:25	10:40	0	Z/3.4-3.5	3	62	0
10	137267	10:00	10:45	11:00	0	Z/3.5-3.6	3 1/2	62	0
9	137269	10:28	11:00	11:10	0	Z/3.6-4	3	62	0
9	137270	10:39	11:00	11:25	10	4/Y.5-Z	3 1/2	62	0
10	137271	10:42	11:15	11:35	5	Y/3.8-3.6	3	63	0
10	137272	10:45	11:20	11:47	10	Y/3.6-3.55	4	62	0
10	137274	10:56	11:27	11:46	0	Y/3.55-3.5	3 1/2	64	0
10	137275	11:24	11:30	11:53	3	Y/3.5-3.45	3	65	4



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10	137276	11:06	11:35	11:59	10	Y/3.45-3.4	3 1/2	64	0
10	137277	11:22	11:55	12:15	4	Y/3.4-3.35	3	64	0
10	137278	11:27	11:54	12:18	10	Y/3.35-3.3	3 1/2	65	0
9	137279	11:37	12:14	12:25	10	Y/3.3-3.25	3 1/2	65	0
8	137280	11:40	12:15	12:30	0	Y/3.25-3.2	3	66	0
10	137281	11:54	12:20	12:37	8	Y/3.2-3.15	3 1/4	65	0
10	137282	12:02	12:30	12:49	5	Z/3-15-3.2	3 1/2	65	0
10	137283	12:08	12:39	12:51	0	Y/3.1-3.15	3 1/2	65	0
10	1372285	12:18	1:00	1:20	3	Y/3.1-3.0	3	65	0
9	137289	12:56	1:30	1:40	8	Z.1/A-Y.7	3 1/2	65	0
10	137290	1:20	1:50	2:18	15	Z.1 X.8-X.7	3 1/2	63	0



COLUMBIA RESEARCH & TESTING  
99010cp.416



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Geyserville CA

Date: 04/16/99  
CRT No. 99010

**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Sonoma Cutrer/Soave Concrete  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Ø x 12"  
Mix No: 3241

**SUMMARY DATA & TEST RESULTS**

Date Spc'd. f'c	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
D. Arnett 04/16/99 3000 PSI	Footing Z/3.2-3.3	1A	492	28.24	07	110000	3890
		1B	493	28.24	28	151000	5340
		1C	494	28.24	28	149000	5269
		1D	495	28.24	SP	SP	SP
D. Arnett 04/16/99 3000 PSI	Footing Y/3.45-3.5	2A	496	28.24	07	113000	3996
		2B	497	28.24	28	127000	4491
		2C	498	28.24	28	125000	4420
		2D	499	28.24	SP	SP	SP

COLUMBIA RESEARCH & TESTING



COLUMBIA RESEARCH & TESTING

CONCRETE PLACEMENT INSPECTION REPORT

Project: Sonoma Cutrer Contractor: Sonoma Cutrer/Soave Concrete

Date: 04/22/99 Job No: 99010

Concrete Supplier: Superior Mix No: 3241 5sk 3000PSI

Structure: Footings

Weather: Clear Air Temp: 74-94 Test Std: ASTM C143

NOTE: This is a three page report

Table with 10 columns: Load Size, Trans. No., Time Batched, Arrive On Job, Final Discharge, Water, Location In Structure, Slump, Concrete Temp., Cyl. Cast. It contains 12 rows of data.

**COLUMBIA RESEARCH & TESTING**

10	137410	10:36	11:05	11:30	10	V3.54-3.7	4	62	0
10	137411	10:43	11:20	11:50	0	V3.46-3.54	3 3/4	62	0
10	137412	10:47	11:10	11:35	15	V3.39-3.46	4	61	4
10	137413	10:54	11:20	11:55	0	V3.32-3.39	3 1/2	62	0
10	137414	10:54	11:30	12:00	0	V3.25-3.32	4	62	0
10	137415	11:08	11:35	12:05	8	V3.18-3.25	4	61	0
10	137416	11:12	11:30	12:10	5	V3.1-3.18	4	62	0
10	137419	11:22	12:01	12:10	0	V3.0-3.1	3 3/4	63	0
10	137420	11:26	12:10	12:15	0	Z.1/V.5-V.7	4	62	0
10	137421	11:32	12:04	12:23	0	4/X8.Y	4	63	0
10	137422	11:38	12:00	12:30	0	4/X.6.X.8	4	63	0
10	137423	11:41	12:08	12:35	0	4?X.4X8.6	3 3/4	67	0
10	137424	11:46	12:20	12:40	0	4/X.2-X.4	3 1/2	67	0
10	137425	11:51	12:27	12:50	10	4/X-X2	4	69	4
10	137426	12:01	12:35	1:05	0	X/3.7-3.9	4	71	0
10	137427	12:05	12:30	12:55	10	X/3.54-3.7	4	70	0
10	137428	12:13	12:40	1:05	0	X/3.46-3.54	3 1/2	70	0
10	137429	12:26	12:55	1:10	0	X3.39-3.46	4	71	0

**COLUMBIA RESEARCH & TESTING**

10	137430	12:32	1:00	1:20	0	X/3.32-3.39	4	71	0
10	137431	12:37	1:05	1:24	5	X/3.25-3.32	3 3/4	72	0
10	137432	12:42	1:10	1:26	0	X3.18-3.25	4	71	0
10	137433	12:46	1:20	1:30	0	X3.1-3.18	3 1/2	73	0
10	137434	12:52	1:25	1:45	8	X/3-3.1	4	72	0
10	137435	12:58	1:25	2:00	0	2.1/X.4-Y.7	3 3/4	72	4
10	137437	1:04	1:45	2:10	5	2.1/W.4-X4	4	71	0
10	137438	1:09	1:50	2:20	0	2.1/V.7-W.4	3 1/2	71	0
10	137439	1:17	1:48	2:25	10	W/3.13-3.1	4	70	0
10	137440	1:21	2:00	2:35	0	W/3.1-3.18	4	71	0
10	137441	1:25	2:05	2:29	10	W3.18-2.25	4	72	0
10	137443	2:08	2:35	2:45	10	2>1-V3.V5	4	72	0
8	137444	2:22	2:56	3:05	5	2.1-V-V.3	3 1/4	73	3
10	137445	2:59	3:25	3:35	0	V2.1-3	4	71	0

COLUMBIA RESEARCH & TESTING



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Geyserville CA

Date: 04/22/99  
CRT No. 99010

**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Sonoma Cutrer/Soave Concrete  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Ø x 12"  
Mix No: 3241

**SUMMARY DATA & TEST RESULTS**

Date Spec'd. f'c	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
D. Arnett 04/22/99 3000 PSI	Footing W/3.46- 3.54	1A	526	28.24	07	128000	4527
		1B	527	28.24	28	134000	4739
		1C	528	28.24	28	136000	4810
		1D	529	28.24	SP	SP	SP
D. Arnett 04/22/99 3000 PSI	Footing V/3.39- 3.46	2A	530	28.24	07	111000	3890
		2B	531	28.24	28	133000	4703
		2C	532	28.24	28	134000	4739
		2D	533	28.24	SP	SP	SP
D. Arnett 04/22/99 3000 PSI	Footing 4/X - X.2	3A	534	28.24	07	108000	3819
		3B	535	28.24	28	120000	4244
		3C	536	28.24	28	118000	4173
		3D	537	28.24	SP	SP	SP

  
COLUMBIA RESEARCH & TESTING



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Geyserville CA

Date: 04/22/99  
CRT No. 99010

**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Sonoma Cutrer/Soave Concrete  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.:ASTM C42  
Cyl. Size 6"Ø x 12"  
Mix No: 3241

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. f'c	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
D. Arnett 04/22/99 3000 PSI	Footing 2.1/X.4- X.7	4A	538	28.24	07	106000	3748
		4B	539	28.24	28	12000	4244
		4C	540	28.24	28	118000	4173
		4D	541	28.24	SP	SP	SP
D. Arnett 04/22/99 3000 PSI	Footing 2.1/V-V3	5A	542	28.24	07	114000	4031
		5B	543	28.24	28	140000	4951
		5C	544	28.24	28	136000	4810



COLUMBIA RESEARCH & TESTING



COLUMBIA RESEARCH & TESTING

CONCRETE PLACEMENT INSPECTION REPORT

Project: Sonoma Cutrer Phase V Contractor: Sonoma Cutrer/Soave Concrete

Date: 05/13/99 Job No: 99010

Concrete Supplier: Superior Mix No: 3241 5sk 3000PSI

Structure: Footings

Weather: Clear Air Temp: 75 Test Std: ASTM C143

Table with 10 columns: Load Size, Trans. No., Time Batched, Arrive On Job, Final Discharge, Water, Location In Structure, Sl, Concrete Temp, Cyl. Cast. It contains 15 rows of data for various concrete placements.

COLUMBIA RESEARCH & TESTING



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Geyserville CA

Date: 05/13/99  
CRT No. 99010

**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Sonoma Cutrer/Soave Concrete  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Ø x 12"  
Mix No: 3241

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. f'c	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
D. Arnett 05/13/99 3000 PSI	Footing	1A	896	28.24	07	84000	2970
		1B	897	28.24	28	109000	3855
		1C	898	28.24	28	109000	3855
		1D	899	28.24	28	SP	SP

  
COLUMBIA RESEARCH & TESTING



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CONCRETE PLACEMENT INSPECTION REPORT

Project: Sonoma Cutrer Phase V. Contractor: Soave Concrete

Date: 09/29/99 Job No: . 99010

Concrete Supplier: Superior Supplies Mix No: 3270 & 3215

Structure: So Wall Closures & Buttress Wall

Weather: Clear Air Temp: 65° Test Std.: ASTM C143

Mix # 3270 Columns

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. SI	Con Temp	Cyl. Cast
10	142044	6:04	7:00	8:35	10	5 Closures @ 2.1 S/E Wall	8	77	4
10	142048	6:42	7:35	9:05	10	1st lift @ 2.1 Buttress Wall			
7.5	142066	10:59	11:37	12:21	10	4th lift Buttress Wall @ L-2 2.1 W/Columns 2nd lift			

Mix # 3215 Wall

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. SI	Con Temp	Cyl. Cast
10	142057	8:58	9:30	10:30	10	2nd lift Buttress Wall @ L-2			
10	142060	9:41	10:10	10:50		3rd lift Buttress Wall @ L-2			

COLUMBIA RESEARCH & TESTING



COLUMBIA RESEARCH & TESTING

Project: Sonoma Cutrer Phase V  
Santa Rosa CA

Date: 09/29/99  
CRT No. 99010

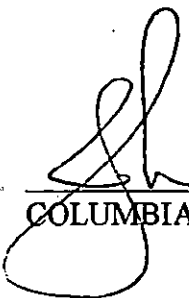
CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT

Contractor: Soave Construction  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3270

SUMMARY DATA & TEST RESULTS

Date Spcl'd. fc	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
B. Marlik 09/29/99 4000 PSI	Closures South Wall	1A	2456	28.24	7	115000	4067
		1B	2457	28.24	28	155000	5482
		1C	2458	28.24	28	147000	5199
		1D	2459	28.24	SP	SP	SP



COLUMBIA RESEARCH & TESTING



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**CONCRETE PLACEMENT INSPECTION REPORT**

Project: Sonoma Cutrer Contractor: Soave Construction

Date: 10/22/99 Job No: 99010

Concrete Supplier : Superior Supplies Inc. Mix No: 3270

Structure: Tank Room Stem Wall

Weather: Clear Air Temp: 72° Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. Sl	Concrete Temp	Cyl. Cast
10	142716	1:08	1:40	2:30	8	5/C-Y.0, Y.0/5-4.35 4.35/A.A-Y.O.	5	77	4
8.5	142720	2:35	3:05	3:45	8	4.35/A.4-C Y.0/4.05- 4.25 4.25/C-Y.0	5 1/2	78	0

COLUMBIA RESEARCH & TESTING



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Santa Rosa CA

Date: 10/22/99  
CRT No. 99010

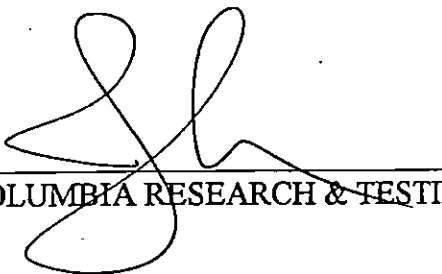
**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Soave Construction  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3270

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. fc	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
D. Arnett	Tank Rm.	1A	2704	28.24	07	115000	4067
10/22/99	Stem	1B	2705	28.24	28	150000	5395
4000 PSI	Walls	1C	2706	28.24	28	153000	5411
		1D	2707	28.24	SP	SP	SP



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**CONCRETE PLACEMENT INSPECTION REPORT**

Project: Sonoma Cutrer Phase V Contractor: Soave Construction

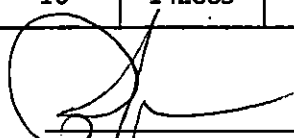
Date: 10/29/99 Job No: .99010

Concrete Supplier: Superior Mix No: 3231

Structure: Slab On Grade (Tank Pad)

Weather: Clear Air Temp: 72° Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. Sl	Concrete Temp	Cyl. Cast
10	142853	6:39	7:05	7:50	5	A-A.55/1-2			
10	142854	6:53	7:25	8:20	5	A.55-B.1/1-2	2 3/4	83	4
10	142857	7:18	7:44	8:35	5	B.1-B.65/1-2			
10	142858	7:52	8:20	9:18	5	B.65-6.2/1-2			
10	142861	8:21	8:50	9:40	0	C.2-C.9/1-2			
10	142864	8:45	9:12	10:25	10	C.9-D.7/1-2			
10	142867	9:12	9:42	10:40	0	D.7-E/1-2, D.6-E/4-3.6			
10	142869	9:52	10:20	11:10	10	D.6-E/3.6-3, D.6-D.1/3-4	3 1/4	88	4
10	142871	10:21	10:50	11:50	0	D.1-C.6/3-4			
10	142874	10:54	11:25	12:25	5	C.6-C/3-4			
10	142875	11:13	11:42	12:45	0	C-B.5/3-4			
10	142876	11:55	12:30	1:15	10	B.5-B/3-4			
10	142881	12:33	1:00	1:50	0	B-A.5/3-4			
10	142883	12:59	1:25	2:30	5	A.C-A/3-4			

  
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**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Santa Rosa CA

Date: 10/29/99  
CRT No. 99010

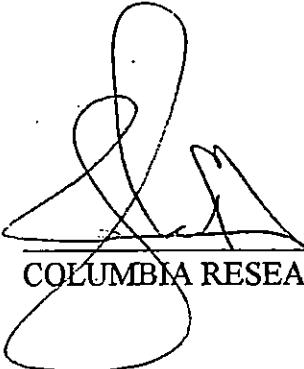
**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Soave Construction  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3231

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. fc	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
B. Medrano 10/29/99 5000 PSI	Slab on Grade Tank Pad A.55- B.1/1-2	1A	2771	28.24	07	139000	4916
		1B	2772	28.24	28	165000	5835
		1C	2773	28.24	28	170000	6012
		1D	2774	28.24	SP	SP	SP
B. Medrano 10/29/99 5000 PSI	Slab on Grade Tank Pad D.6-E/3.6- 3, D.6- D.1/3-4	2A	2775	28.24	07	142000	5022
		2B	2776	28.24	28	173000	6110
		2C	2777	28.24	28	175000	6189
		2D	2778	28.24	SP	SP	SP



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**CONCRETE PLACEMENT INSPECTION REPORT**

Project: Sonoma Cutrer Phase V Contractor: Soave Construction

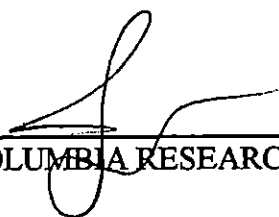
Date: 11/03/99 Job No: 99010

Concrete Supplier : Superior Supplies Inc. Mix No: 3231

Structure: Tank Pad

Weather: Clear Air Temp: 72° Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. Sl	Concrete Temp	Cyl. Cast
10	142985	6:31	7:00	7:25	0	1-2.5/A-B	4	88	4
10	142988	6:53	7:20	7:50	0	2.5-4/A-B			
10	142990	7:33	8:00	8:30	13	1-3/C-D			
10	142993	8:05	8:35	8:50	0	2-5/C-D			
3	142996	8:53	9:15	9:32	5	5-6			



COLUMBIA RESEARCH & TESTING



**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Santa Rosa CA

Date: 11/03/99  
CRT No. 99010

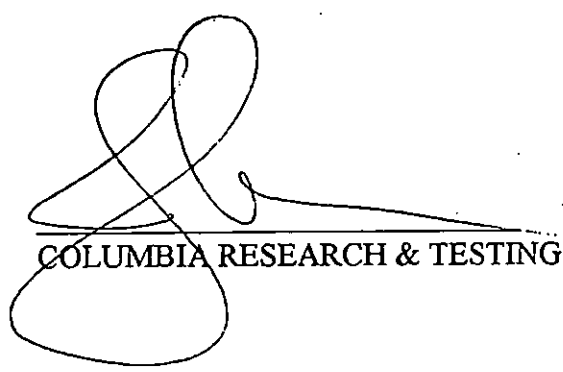
**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Soave Construction  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3231

**SUMMARY DATA & TEST RESULTS**

Date Spcl'd. fc	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
B.	Slab on	1A	2779	28.24	07	126000	4456
Medrano	Grade -	1B	2780	28.24	28	160000	5658
11/03/99	Tank Pad	1C	2781	28.24	28	165000	5835
5000 PSI		1D	2782	28.24	SP	SP	SP



COLUMBIA RESEARCH & TESTING



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**CONCRETE PLACEMENT INSPECTION REPORT**

Project: Sonoma Cutrer Phase V Contractor: Soave Construction

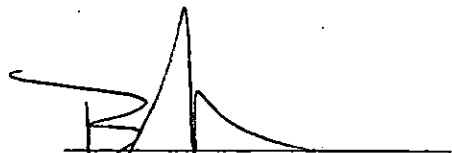
Date: 11/05/99 Job No: .99010

Concrete Supplier: Superior Mix No: 3241

Structure: Column Footing

Weather: Clear Air Temp: 75° Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. SI	Concrete Temp	Cyl. Cast
10	142110	12:30	1:15	1:35	0	ZZ/3.4 ZZ/3.5	3	70	4
10	193117	1:05	1:16	2:20	10	ZZ/3.4 ZZ/3.5	3 ½	71	0
8	143121	2:16	2:50	3:05	18	T1/3.6	3	71	0



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**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Santa Rosa CA

Date: 12/03/99  
CRT No. 99010

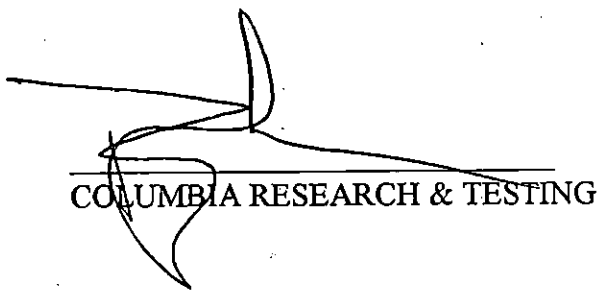
**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Soave Construction  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3241

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. f/c	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
B.	Column	1A	2830	28.24	07	74000	2617
Medrano	Footing	1B	2831	28.24	28	118000	4173
11/05/99	ZZ/3.4	1C	2832	28.24	28	115000	4067
3000 PSI		1D	2833	28.24	SP	SP	SP



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**CONCRETE PLACEMENT INSPECTION REPORT**

Project: Sonoma Cutrer Phase V Contractor: Soave Construction

Date: 11/08/99 Job No: .99010

Concrete Supplier: Superior Mix No: 3271/3241

Structure: Tank Pad/Stem Wall

Weather: Clear Air Temp: 59° Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. Sl	Concrete Temp	Cyl. Cast
3271									
10	143144	7:27	7:50	8:20	0	West 10'	3 1/2	70	4
10	143145	7:59	8:25	8:50	10	Center	3 1/2		
7	143146	9:05	9:30	9:50	0	East 10'	3 1/2		
3241									
10	143147	9:31	10:00	10:35	10	Stem Wall @ CC/U-Y X/2-2.1	3 1/2		



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**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Santa Rosa CA

Date: 11/08/99  
CRT No. 99010

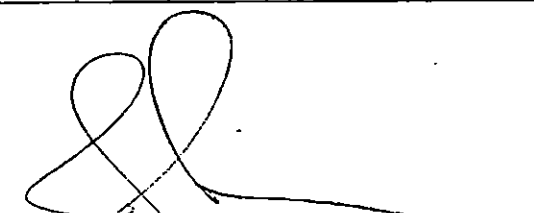
**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Soave Construction  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3271/3241

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. fc	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
M. Barry 11/08/99 5000 PSI	East Tank Pad	1A	2862	28.24	07	121000	4279
		1B	2863	28.24	28	142000	5022
		1C	2864	28.24	28	157000	5552
		1D	2865	28.24	SP	SP	SP
M. Barry 11/08/99 3000 PSI	Stem Wall Line CC/O- Y Line X/Z- Z.1	2A	2866	28.24	07	76000	2687
		2B	2867	28.24	28	114000	4031
		2C	2868	28.24	28	135000	4420
		2D	2869	28.24	SP	SP	SP



**COLUMBIA RESEARCH & TESTING**



**COLUMBIA RESEARCH & TESTING**

**CONCRETE PLACEMENT INSPECTION REPORT**

Project: Sonoma Cutrer Phase V                      Contractor: Soave Construction

Date: 11/12/99    Job No: .99010

Concrete Supplier: Superior                              Mix No: 6P/3241

Structure: Slab On Grade

Weather: Clear              Air Temp: 59°              Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. SI	Concrete Temp	Cyl. Cast
Mix	#6P								
10	143266	11:50	12:25	1:05	0	3.4-A.5/4.25-4.35			
10	143268	12:17	12:45	1:55	17	Y.0-A.5/4.25 4.35	2 2/4		4
Mix	#3241								
10	143273	1:40	2:10	2:35	0	Ftg. 2/115 layer of Ftg 15	4		4
10	143274	2:06	2:40	2:55	0	Ftg. 15	4		0
4	143276	2:42	3:05	3:20	6	Ftg. 15	4		0

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**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Santa Rosa CA

Date: 11/12/99  
CRT No. 99010


**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Soave Construction  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.:ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 6P/3241

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. f/c	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
M. Barry 11/12/99 5000 PSI	Slab On Grade Y.O- A.5/4.25 - 4.35	1A	2954	28.24	07	55000	1945
		1B	2955	28.24	28	115000	4067
		1C	2956	28.24	28	117000	4138
		1D	2957	28.24	SP	SP	SP
M. Barry 11/12/99 3000 PSI	Ftg Ftg #2 & Ftg 15 1/5 layer	2A	2958	28.24	07	48000	1698
		2B	2959	28.24	28	106000	3748
		2C	2960	28.24	28	114000	4031
		2D	2961	28.24	SP	SP	SP



COLUMBIA RESEARCH & TESTING

**CONCRETE PLACEMENT INSPECTION REPORT**

**Project:** Sonoma Cutrer Phase V      **Contractor:** Soave Construction

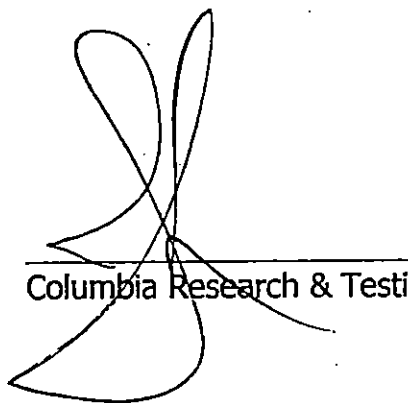
**Date:** 11/17/99      **Job No:** .99010

**Concrete Supplier:** Superior      **Mix No:** 3241

**Structure:** Footing

**Weather:** Clear      **Air Temp:** 75°      **Test Std.:** ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. SI	Concrete Temp	Cyl. Cast
10	143364	7:33	8:05	8:20	0	3.6/S.1(F2)	3	75	0
1	143370	8:53	9:20	9:25	0	3.6/S.1(F2)	3	75	4

  
 \_\_\_\_\_  
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**COLUMBIA RESEARCH & TESTING**

Project: Sonoma Cutrer Phase V  
Santa Rosa CA

Date: 11/17/99  
CRT No. 99010

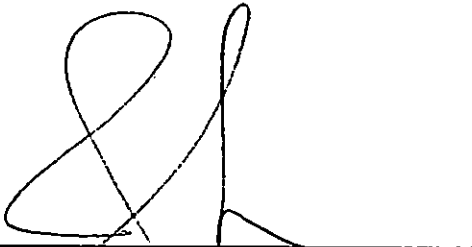
**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor: Soave Construction  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.:ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3241

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. f'c	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
B.	Footing	1A	2986	28.24	07	91000	3218
Medrano		1B	2987	28.24	28	125000	4420
11/17/99		1C	2988	28.24	28	123000	4350
3000 PSI		1D	2989	28.24	SP	SP	SP




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COLUMBIA RESEARCH & TESTING



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**CONCRETE PLACEMENT INSPECTION REPORT**

Project: Sonoma Cutrer Phase V Contractor: Soave Construction

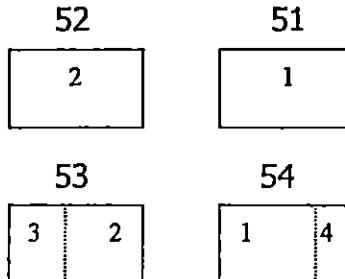
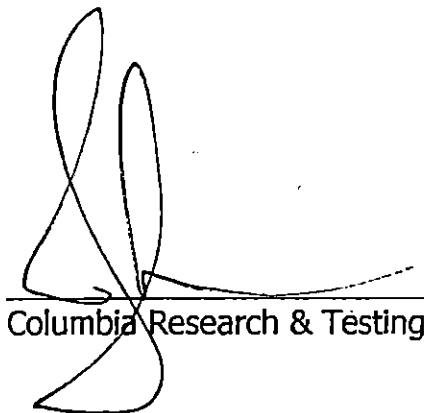
Date: 11/23/99 Job No: .99010

Concrete Supplier: Superior Mix No: 3215

Structure: Tilt Up Panels

Weather: Clear Air Temp: 75° Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. Sl	Concrete Temp	Cyl. Cast
10	143438	7:02	7:32	8:00	5	Panels 51 & 54	4 1/2	76	4
10	143439	7:31	8:05	8:50	5	Panels 54, 52 & 53			
4	143448	8:51	9:15	10:00	0	Panel 53 & Curb B.2/5-5.1			

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COLUMBIA RESEARCH & TESTING

Project: Sonoma Cutrer Phase V  
Santa Rosa CA

Date: 11/23/99  
CRT No. 99010

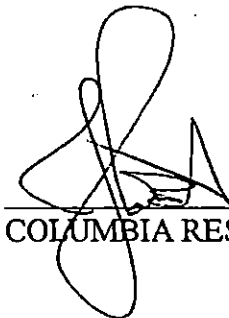
CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT

Contractor: Soave Construction  
Supplier: Superior  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3215

SUMMARY DATA & TEST RESULTS

Date Spcf'd. fc	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
B.							
Medrano	Tilt Panels	1A	3005	28.24	07	70000	2475
11/23/99	Panels #	1B	3006	28.24	28	128000	4527
4000 PSI	51 & 54	1C	3007	28.24	28	119000	4208
		1D	3008	28.24	SP	SP	SP



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**CONCRETE PLACEMENT INSPECTION REPORT**

Project: Sonoma Cutrer Phase V Contractor: Soave Construction

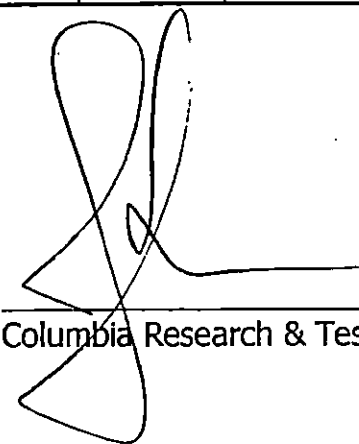
Date: 12/01/99 Job No: .99010

Concrete Supplier: Superior Mix No: 3215

Structure: SOG/Tilt Up Panels

Weather: Clear Air Temp: 54° Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. Sl	Concrete Temp	Cyl. Cast
10	143546	6:30	7:10	8:00	25	1-3/B-C	3 1/2	84	4
10	143552	7:10	7:35	8:30	0	B.5-C/3-5, 1-3/A-B			
10	143557	8:29	9:00	9:30	0	3-5/A-B, B-B.5/3-4			
8	143559	8:38	9:15	10:00	0	B-B.5/3-4, 5-6/A-C			
10	143561	9:11	9:50	10:30	0	6-8/A-C			
10	143563	9:54	10:20	10:45	0	Panels 55, 56, 57	4 1/2	83	4



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Project: Sonoma Cutrer Winery  
Santa Rosa CA

Date: 01/03/2000  
CRT No. 99010

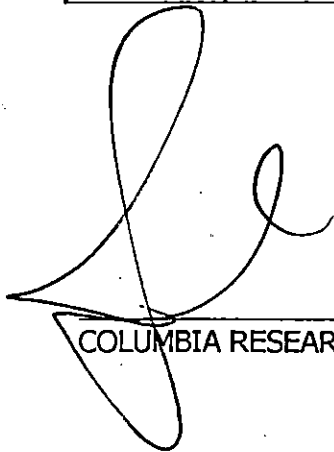
**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor Soave Construction  
Supplier: Superior Supplies  
Cyl Cast By: CRT

Test Std.:ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 6 P

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. f'c	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max. Load	Strength (psi)
B. Medrano 12/01/99 3000 PSI	SOG 1-3/B-C	1A	3033	28.24	07	98000	3466
		1B	3034	28.24	28	145000	5128
		1C	3035	28.24	28	142000	5022
		1D	3036	28.24	SP	SP	SP



COLUMBIA RESEARCH & TESTING

Project: Sonoma Cutrer Winery  
Santa Rosa CA

Date: 01/03/2000  
CRT No. 99010

**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor Soave Construction  
Supplier: Superior Supplies  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3215

**SUMMARY DATA & TEST RESULTS**

Date Spcl'd. fc	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
B. Medrano 12/01/99 3000 PSI	Panels #55,56, & 59	2A	3037	28.24	07	107000	3784
		2B	3038	28.24	28	134000	4739
		2C	3039	28.24	28	136000	4810
		2D	3040	28.24	SP	SP	SP



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CONCRETE PLACEMENT INSPECTION REPORT

Project: Sonoma Cutrer Phase V Contractor: Soave Construction

Date: 12/07/99 Job No: .99010

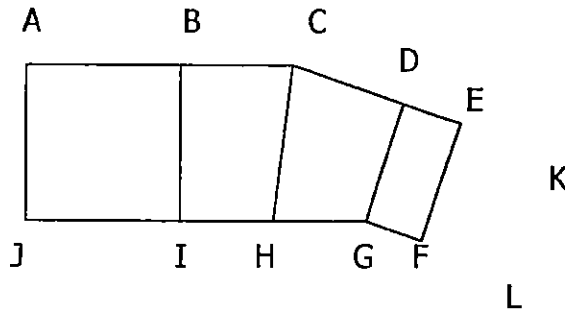
Concrete Supplier: Superior Supplies Mix No: 3271

Structure: Suspended Slab

Weather: Clear Air Temp: 32° Test Std.: ASTM C143

Table with 10 columns: Load Size, Trans. No., Time Batched, Arrive On Job, Final Discharge, Water, Location In Structure, Est. SI, Concrete Temp, Cyl. Cast. It contains 8 rows of data detailing concrete placement events.

Handwritten signature and the text 'Columbia Research & Testing'.



Project: Sonoma Cutrer Winery  
Santa Rosa CA

Date: 01/14/2000  
CRT No. 99010

**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor Soave Construction  
Supplier: Superior Supplies  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3271

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. f'c	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
B. Medrano 12/07/99 3000 PSI	Suspended Slab/RC Wall 1 <sup>st</sup> lift wall G-F, D.5- E/K-K.3	1A	3117	28.24	07	99000	3501
		1B	3118	28.24	28	165000	5835
		1C	3119	28.24	28	167000	5906
		1D	3120	28.24	SP	SP	SP



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**CONCRETE PLACEMENT INSPECTION REPORT**

Project: Sonoma Cutrer Phase V Contractor: Soave Construction

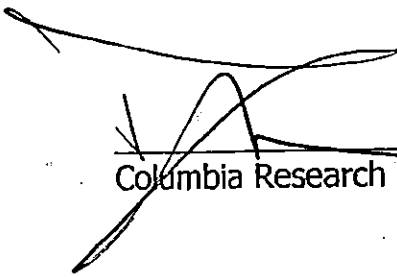
Date: 12/08/99 Job No: 99010

Concrete Supplier: Superior Supplies Mix No: 3241

Structure: SOG

Weather: Clear Air Temp: 32° Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. Sl	Concrete Temp	Cyl. Cast
10	143675	6:32	7:25	8:00	10	YO- W.2/4.4-5	3 ½	58	0
10	143679	7:11	7:55	8:15	0	YO-x ¼.15- 4.4	4	59	4
10	143681	7:17	8:13	8:40	8	X.1- W.15/4.15- 4.5	4	59	0
10	143682	7:56	8:30	9:10	15	V.05- W.15/4.35- 4.05	4	58	0
10	143683	8:25	8:55	9:45	10	V.1- V.05/AA- 4.05	3 ½	59	0



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Project: Sonoma Cutrer Winery  
Santa Rosa CA

Date: 01/14/2000  
CRT No. 99010

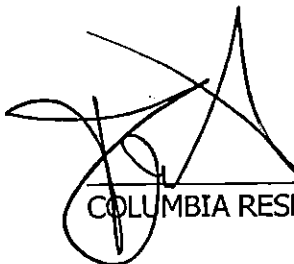
**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor Soave Construction  
Supplier: Superior Supplies  
Cyl Cast By: CRT

Test Std.:ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3241

**SUMMARY DATA & TEST RESULTS**

Date Spcf'd. f <sub>c</sub>	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
D. Arnett 12/08/99 3000 PSI	SOG	1A	3124	28.24	07	63000	2228
		1B	3125	28.24	28	125000	4420
		1C	3126	28.24	28	123000	4350
		1D	3127	28.24	SP	SP	SP



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CONCRETE PLACEMENT INSPECTION REPORT

Project: Sonoma Cutrer Phase V Contractor: Soave Construction

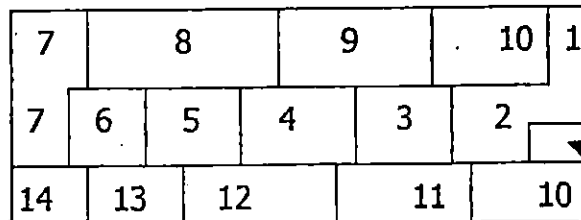
Date: 12/21/99 Job No: 99010

Concrete Supplier: Superior Supplies Mix No: 3241

Structure: FTG/SOG

Weather: Clear Air Temp: 32° Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. Sl	Concrete Temp	Cyl. Cast
10	143957	6:59	7:25	7:45	0	Ftg ZZ-ZW/HH #1 @ Fig A			
10	1439598	7:10	7:35	8:00	0	#2 @ Fig A	4 1/2	82	4
8	143960	7:34	8:05	8:15	0	#3 @ Fig A			
9	143962	7:48	8:15	8:30	0	#4 @ Fig A			
10	143963	8:03	8:33	8:45	0	#5 @ Fig A			
10	143965	8:22	8:45	9:00	0	#6 @ Fig A			
10	143966	8:29	8:55	9:15	0	#7 @ Fig A			
9	143967	8:42	9:12	9:30	0	#8 @ Fig A			
9	143969	9:06	9:25	9:50	0	#9 @ Fig A	4	82	4
9	143971	9:14	9:40	10:00	0	#10 @ Fig A			
10	143972	9:25	9:45	10:15	0	#11 @ Fig A			
10	143974	9:42	10:05	10:30	0	#12 @ Fig A			
10	143977	10:14	10:40	11:10	0	#13 @ Fig A			
2.5	143979	11:06	11:38	11:45	0	#14 @ Fig A			



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Project: Sonoma Cutrer Phase V  
Santa Rosa CA

Date: 01/03/2000  
CRT No. 99010

### CAST CONCRETE CYLINDER COMPRESSION TEST REPORT

Contractor: Soave Construction  
Supplier: Superior Supplies  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3241

#### SUMMARY DATA & TEST RESULTS

Date Spcf'd. f <sub>c</sub>	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
B. Medrano 12/21/99 3000 PSI	SOG 2 @ Fig A	1A	3197	28.24	07	62000	2192
		1B	3198	28.24	28	120000	4244
		1C	3199	28.24	28	122000	4314
		1D	3200	28.24	SP	SP	SP
B. Medrano 12/21/99 3000 PSI	SOG 10 @ Fig A	2A	3201	28.24	07	66000	2334
		2B	3202	28.24	28	130000	4597
		2C	3203	28.24	28	121000	4279
		2D	3204	28.24	SP	SP	SP



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CONCRETE PLACEMENT INSPECTION REPORT

Project: Sonoma Cutrer Phase V Contractor: Soave Construction

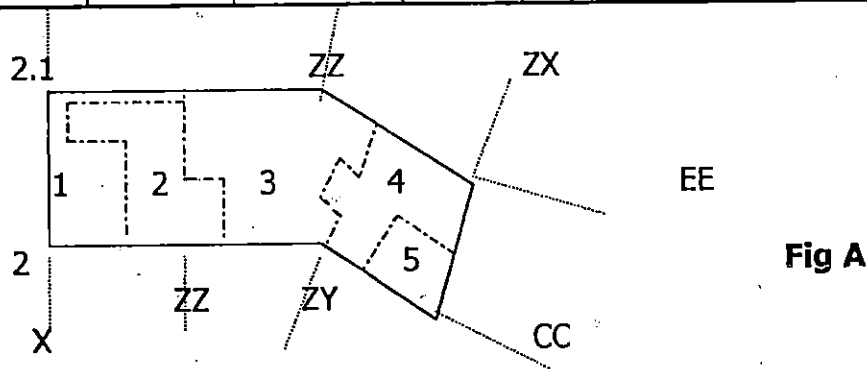
Date: 12/22/99 Job No: 99010

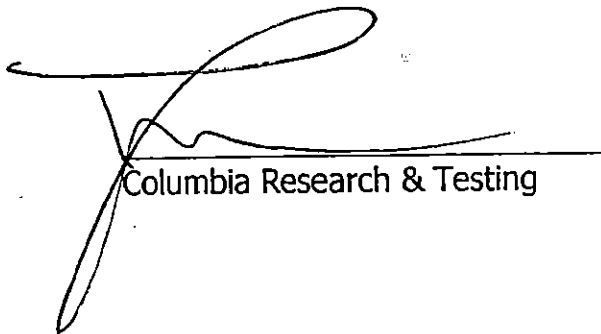
Concrete Supplier: Superior Supplies Mix No: 3167

Structure: SOG

Weather: Clear Air Temp: 32° Test Std.: ASTM C143

Load Size	Trans. No.	Time Batched	Arrive On Job	Final Discharge	Water	Location In Structure	Est. Sl	Concrete Temp	Cyl. Cast
10	143998	6:56	7:25	8:30	8	#1 @ Fig A	3 3/4	86	4
10	143999	7:20	7:50	8:40	15	#2 @ Fig A			
10	144002	8:37	9:05	9:45	6	#3 @ Fig A			
10	144007	9:37	10:15	10:35	10	#4 @ Fig A			
10	144011	10:06	10:30	11:20	4	#5 @ Fig A			



  
 Columbia Research & Testing

Project: Sonoma Cutrer Winery  
Santa Rosa CA

Date: 01/03/2000  
CRT No. 99010

**CAST CONCRETE CYLINDER  
COMPRESSION TEST REPORT**

Contractor Soave Construction  
Supplier: Superior Supplies  
Cyl Cast By: CRT

Test Std.: ASTM C42  
Cyl. Size 6"Øx 12"  
Mix No: 3167

**SUMMARY DATA & TEST RESULTS**

Date Spcl'd. fc	Structure	Field Mark	Lab No.	Cross Sectional Area	Age (da)	Max Load	Strength (psi)
B. Medrano 12/22/99 3000 PSI	SOG 1 @ Fig A	1A	3205	28.24	07	105000	3713
		1B	3206	28.24	28	145000	5128
		1C	3207	28.24	28	147000	5199
		1D	3208	28.24	SP	SP	SP



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MAIN OFFICE: P O Box 933 WINDSOR CA 95492 PHONE 707.837.0920 FAX 707.838.0411  
 BRANCH OFFICE LOCATIONS: VALLEJO & PETALUMA CA TOLL FREE PHONE 877.495.6662

**WELDING FINAL VERIFIED REPORT**


CRT No.	99010	DSA FILE:	
PERMIT No.		DSA APP. No.:	
DATE:	JANUARY 30, 2001		
CLIENT:	SONOMA CUTRER VINEYARDS		
PROJECT NAME:	SONOMA CUTRER VINEYARDS GRAND CRU CELLARS PROJECT PHASE 5		
PROJECT ADDRESS:	4401 SLUSSER ROAD SANTA ROSA CA		
FABRICATOR (S):			

Special Inspection of the welding final verified reports of field and or shop welding inspections meet requirements by the AWS D1.1 & Section 1701 of the California Building Code (CBC). These welding reports have been performed by AWS D1.1 approved special inspectors of *Columbia Research & Testing Corporation*.

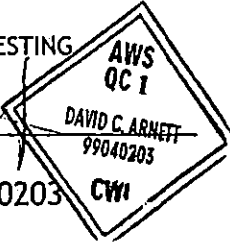
General Statement as to Status of Work: *On Site Inspection completed in accordance to the approved plans and specifications.*

I declare, I have read the field and or shop reports and know the contents thereof, that all of the above statements are true and that I know of my own personal knowledge that the work has been performed and materials used, are in compliance with approved plans and specifications of the California Building Code (CBC) and AWS D1.1 standards.

COLUMBIA RESEARCH & TESTING

Name: 

DAVID C. ARNETT  
 AWS QC 1 CWI - 99040203



cc: AOR  SEOR  PI  DSA



COLUMBIA RESEARCH & TESTING

Project: Sonoma Cutrer Winery Phase V  
Santa Rosa CA

Date: 01/31/00  
CRT No: 99010

WELDING INSPECTION

Welding Contractor: Sonoma Cutrer	Shop Welding
Equipment: Miller 250	Electrode: E71T1
Certified Welders:	Process: FCAW
(1) Greg Poirier	Social Sec. No.
	562-73-1018
	Inspection Methods:
	Visual-Continuous

Inspector Date:	Description of Inspected Work Quantity & Identity of Assembly	Remarks Quality of Work
M. Barry 01/31/00	<p>Checked welder certification papers. Visually inspected welding which was in progress and being completed by (1) qualified welder as identified above: <b>WELDMENTS CONSIST OF:</b></p> <p>L 6 x 4 x 1/2 with 2 1/4 x 6 x 6 with 3/16 fillet welds 3 #8 welded to 6 x 4 with flare bevel groove welds Per detail 8/S7.3 – Completed 6 pcs</p>	<p>All weldments were completed per attached plans and specs. &amp; AWS D1.1</p>

*Michael Barry*  
COLUMBIA RESEARCH & TESTING  
MICHAEL Z. BARRY  
96020371  
CWI