

City of Fort Collins  
Page 2  
September 11, 1990

ASPHALT CONCRETE LABORATORY TEST SUMMARY

Project: 1990 Street Rehabilitation Project

Sample No.: 1

Date Sampled: September 5, 1990                      Time: 9:50 a.m.

Location: Breakwater Drive, south ribbon 135' west of Westshore Way

Truck No.: 1506                      Temperature: 253°

Quantitative Extraction, ASTM D 2172 Method B

Asphalt Cement Content - 5.9%

Gradation Analysis of Extracted Aggregate, ASTM C 117 & C 136

<u>Sieve Size</u>	<u>% Passing</u>	<u>Specifications Grading "EX" % Passing</u>
1/2"	100.0	100
3/8"	92.7	-
#4	60.5	45-78
#8	47.7	30-60
#16	40.1	-
#30	24.1	-
#50	18.9	-
#100	12.3	-
#200	5.7	3-12



# EMPIRE LABORATORIES, INC.

Materials and Foundation Engineers  
 Fort Collins, Colorado  
 Greeley, Colorado  
 Longmont, Colorado  
 Colorado Springs, Colorado  
 Cheyenne, Wyoming

## CONCRETE TEST RESULTS

Tests checked below have been performed by Empire Laboratories, Inc., in accordance with ASTM procedures

**SAMPLING**  
C172-82

**MAKING & CURING TEST SPECIMENS**  
Field C31-85      Laboratory C192-81

**CAPPING**  
C617-85b

**COMPRESSIVE STRENGTH**  
C39-86






NAME OF PROJECT Creekside / Landings 4th

CONTRACTOR Thoutt / Fairfield

ENGINEER OR ARCHITECT Parsons & Associates MIX NO. \_\_\_\_\_

LOCATION OF PLACEMENT Curb and gutter / West Shore Drive and Creekside Court / 100's of West Shore Drive  
East side

EMPIRE JOB NO. 2529 REPORT NO. 1

FINE 1531 Lbs. MEDIUM \_\_\_\_\_ Lbs. COARSE AGG. 1606 Lbs. CEMENT 459 Lbs. FLY ASH 116 Lbs. WATER 28 Gals.

REQUIRED STRENGTH 3500 SLUMP 2-3/4 In. AIR 4.0 % UNIT WEIGHT 143.0 \* / Ft.<sup>3</sup> YIELD 27.64 Ft.<sup>3</sup> / Yd.<sup>3</sup>

TEMP. (CONCRETE) 70 °F (AMBIENT) 80 °F WRA 3 oz./cwt AIR ENTRAINMENT 1.14 oz./sack

TRUCK NO. 206 TIME 8:45 CUBICYARDS 7 CALCIUM CHLORIDE \_\_\_\_\_ ACCELERATOR \_\_\_\_\_

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN	CROSS SECTIONAL AREA IN. <sup>2</sup>	LENGTH IN.	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	07-14-89	07-21-89	7	105,000	3710	6.0	28.3	12.0	conical	7	
2	07-14-89	07-21-89	7	109,300	3860	6.0	28.3	12.0	conical	7	
3	07-14-89	08-11-89	28								
4	07-14-89	08-11-89	28								

CAST BY: Empire Laboratories BROKEN BY: 3 day \_\_\_\_\_ 7 day JH 14 day \_\_\_\_\_ 28 day \_\_\_\_\_ 45 day \_\_\_\_\_ CONCRETE SUPPLIER: Mobile Premix

DISTRIBUTION: Fairfield Homes (2): City of Fort. Collins (1): Parrsons & Associates (1). Mobile Premix (1).



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C172-82

**MAKING & CURING TEST SPECIMENS**  
Field C31-85 Laboratory C192-81

**CAPPING**  
C617-85b

**COMPRESSIVE STRENGTH**  
C39-86

NAME OF PROJECT Creekside / Landings 4th

CONTRACTOR \_\_\_\_\_

ENGINEER OR ARCHITECT \_\_\_\_\_ MIX NO. \_\_\_\_\_

LOCATION OF PLACEMENT Sidewalk - 85' South of Boardwalk Dr. and Breakwater Dr. East Side of Street

EMPIRE JOB NO. 2529 REPORT NO. 4

FINE 1460 Lbs. MEDIUM 1600 Lbs. COARSE AGG. \_\_\_\_\_ Lbs. CEMENT 564 Lbs. FLY ASH \_\_\_\_\_ Lbs. WATER 34 Gals.

REQUIRED STRENGTH 3500 SLUMP 4 In. AIR 5.8 % UNIT WEIGHT 142.08 \*/ft<sup>3</sup> YIELD 27.50 Ft<sup>3</sup>/Yd<sup>3</sup>

TEMP. (CONCRETE) 72 °F (AMBIENT) 73 °F WRA 2 oz./cwt AIR ENTRAINMENT .19 oz./sack

TRUCK NO. 184 TIME 2:15 CUBIC YARDS 8 CALCIUM CHLORIDE \_\_\_\_\_ ACCELERATOR \_\_\_\_\_

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN	CROSS SECTIONAL AREA IN.	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	10-04-89	10-11-89	7	105,500	3730	6.0	28.3	12.0	conical	7	
2	10-04-89	10-11-89	7	100,500	3550	6.0	28.3	12.0	conical	7	
3	10-04-89	11-01-89	28								
4	10-04-89	11-01-89	28								

CAST BY: Empire Laboratories BROKEN BY: 3 day \_\_\_\_\_ 7 day IGH 14 day \_\_\_\_\_ 28 day \_\_\_\_\_ 45 day \_\_\_\_\_ CONCRETE SUPPLIER: Western Mobile

DISTRIBUTION: Fairfield Homes(1); City of Fort Collins (1); Parsons (1); Western Mobile (1).



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# CONCRETE TEST RESULTS

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### SAMPLING

C172-82

### MAKING & CURING TEST SPECIMENS

Field C31-85

Laboratory C192-81

### CAPPING

C617-85b

### COMPRESSIVE STRENGTH

C39-86

NAME OF PROJECT Creekside / Landings 4th

CONTRACTOR Fairfield Homes

ENGINEER OR ARCHITECT Parsons & Associates MIX NO. \_\_\_\_\_

LOCATION OF PLACEMENT Curb and gutter - Radius intersection Breakwater Dr. and Creekside Ct. S.F. corner

EMPIRE JOB NO. 2529 REPORT NO. 2

FINE 1460 Lbs. MEDIUM 1600 Lbs. COARSE AGG. \_\_\_\_\_ Lbs. CEMENT 451 Lbs. FLY ASH 113 Lbs. WATER 33 Gals.

REQUIRED STRENGTH 3500 SLUMP 2-1/2 in. AIR 6.0 % UNIT WEIGHT 141.44 #/ft.<sup>3</sup> YIELD 27.57 Ft.<sup>3</sup>/Yd.<sup>3</sup>

TEMP. (CONCRETE) 74 °F (AMBIENT) 77 °F WRA 3 oz./cwt AIR ENTRAINMENT 1.6 oz/sack

TRUCK NO. 58 TIME 9:50 CUBIC YARDS 7 CALCIUM CHLORIDE \_\_\_\_\_ ACCELERATOR \_\_\_\_\_

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN.	CROSS SECTIONAL AREA IN.	LENGTH IN.	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	07-20-89	07-27-89	7	93,700	3310	6.0	28.3	12.0	conical	7	
2	07-20-89	07-27-89	7	93,900	3280	6.0	28.3	12.0	conical	7	
3	07-20-89	08-17-89	28	128,500	4540	6.0	28.3	12.0	conical	28	
4	07-20-89	08-17-89	28	128,500	4540	6.0	28.3	12.0	conical	28	

CAST BY: Empire Laboratories BROKEN BY: 3 day \_\_\_\_\_ 7 day DM 14 day \_\_\_\_\_ 28 day \_\_\_\_\_ GS 45 day \_\_\_\_\_ CONCRETE SUPPLIER: Mobile Premix

DISTRIBUTION: Fairfield Homes (2); City of Ft. Collins (1); Parsons & Associates (1); Mobile Premix (1).



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**SAMPLING**  
C172-82

**MAKING & CURING TEST SPECIMENS**  
Field C31-85

**CAPPING**  
C617-85b

**COMPRESSIVE STRENGTH**  
C39-86

NAME OF PROJECT Creekside / Landings 4th

CONTRACTOR Thoutt / Fairfield

ENGINEER OR ARCHITECT Parsons & Associates MIX NO. \_\_\_\_\_

LOCATION OF PLACEMENT Curb and gutter / West Shore Drive and Creekside Court / 100's of West Shore Drive  
East side

EMPIRE JOB NO. 2529 REPORT NO. 1

FINE 153 Lbs. MEDIUM \_\_\_\_\_ Lbs. COARSE AGG. 1606 Lbs. CEMENT 459 Lbs. FLY ASH 116 Lbs. WATER 28 Gals.

REQUIRED STRENGTH 3500 SLUMP 2-3/4 In. AIR 4.0 % UNIT WEIGHT 143.0 \*/ft.<sup>3</sup> YIELD 27.64 Ft.<sup>3</sup>/Yd.<sup>3</sup>

TEMP. (CONCRETE) 70 °F (AMBIENT) 80 °F WRA 3 oz./cwt AIR ENTRAINMENT 1.14 oz./sack

TRUCK NO. 206 TIME 8:45 CUBICYARDS 7 CALCIUM CHLORIDE \_\_\_\_\_ ACCELERATOR \_\_\_\_\_

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN.	CROSS SECTIONAL AREA IN.	LENGTH IN.	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	07-14-89	07-21-89	7	105,000	3710	6.0	28.3	12.0	conical	7	
2	07-14-89	07-21-89	7	109,300	3860	6.0	28.3	12.0	conial	7	
3	07-14-89	08-11-89	28	128,800	4550	6.0	28.3	12.0	conical	28	
4	07-14-89	08-11-89	28	138,700	4900	6.0	28.3	12.0	conical	28	

CAST BY: Empire Laboratories BROKEN BY: 3 day \_\_\_\_\_ 7 day JH 14 day \_\_\_\_\_ 28 day CBD 45 day \_\_\_\_\_ CONCRETE SUPPLIER: Timberline

DISTRIBUTION: Fairfield Homes (2); City of Fort Collins (1); Parrsons & Associates (1).



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**SAMPLING**  
C172-82

**MAKING & CURING TEST SPECIMENS**  
Field C31-85      Laboratory C192-81

**CAPPING**  
C617-85b

**COMPRESSIVE STRENGTH**  
C39-86



NAME OF PROJECT Creekside / Landings 4th

CONTRACTOR Thoutt / Fairfield

ENGINEER OR ARCHITECT Parsons & Associates MIX NO. \_\_\_\_\_

LOCATION OF PLACEMENT Curb and gutter, Station 260 Breakwater Ct.

EMPIRE JOB NO. 2529 REPORT NO. 3

FINE 1460 Lbs. MEDIUM \_\_\_\_\_ Lbs. COARSE AGG. 1600 Lbs. CEMENT 451 Lbs. FLY ASH 113 Lbs. WATER 33 Gals.

REQUIRED STRENGTH 3500 SLUMP 3-1/2 In. AIR 5.2 % UNIT WEIGHT 141.9 \* / Ft.<sup>3</sup> YIELD 27.47 Ft.<sup>3</sup> / Yd.<sup>3</sup>

TEMP. (CONCRETE) 73 °F (AMBIENT) 75 °F WRA 3 oz./cwt AIR ENTRAINMENT 1.5 oz./sack

TRUCK NO. 186 TIME 10:30 CUBIC YARDS 8.00 CALCIUM CHLORIDE \_\_\_\_\_ ACCELERATOR \_\_\_\_\_

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN.	CROSS SECTIONAL AREA IN.	LENGTH IN	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	07-24-89	07-31-89	7	112,100	3960	6.0	28.3	12.0	conical	7	
2	07-24-89	07-31-89	7	111,000	3930	6.0	28.3	12.0	conical	7	
3	07-24-89	08-21-89	28	124,000	4390	6.0	28.3	12.0	conical	28	
4	07-24-89	08-21-89	28	130,000	4600	6.0	28.3	12.0	conical	28	

CAST BY: Empire Laboratories BROKEN BY: 3 day \_\_\_\_\_ 7 day \_\_\_\_\_ DM 14 day \_\_\_\_\_ 28 day \_\_\_\_\_ LEM 45 day \_\_\_\_\_ CONCRETE SUPPLIER: Mobile Premix

DISTRIBUTION: Fairfield Homes (2); City of Fort Collins (1); Parsons & Assoc. (1); Mobile Premix (1).



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C172-82

### MAKING & CURING TEST SPECIMENS

Field C31-85

Laboratory C192-81

### CAPPING

C617-85b

### COMPRESSIVE STRENGTH

C39-86

NAME OF PROJECT Creekside / Landings 4th

CONTRACTOR Thoutt / Fairfield

ENGINEER OR ARCHITECT Parsons & Associates MIX NO. \_\_\_\_\_

LOCATION OF PLACEMENT Curb and gutter, Station 260 Breakwater Ct.

EMPIRE JOB NO. 2529 REPORT NO. 3

FINE 1460 Lbs. MEDIUM \_\_\_\_\_ Lbs. COARSE AGG. 1600 Lbs. CEMENT 451 Lbs. FLY ASH 113 Lbs. WATER 33 Gals.

REQUIRED STRENGTH 3500 SLUMP 3-1/2 In. AIR 5.2 % UNIT WEIGHT 141.9 #/Ft.<sup>3</sup> YIELD 27.47 Ft.<sup>3</sup>/Yd.<sup>3</sup>

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TRUCK NO. 186 TIME 10:30 CUBIC YARDS 8.00 CALCIUM CHLORIDE \_\_\_\_\_ ACCELERATOR \_\_\_\_\_

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN.	CROSS SECTIONAL AREA IN. <sup>2</sup>	LENGTH IN.	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	07-24-89	07-31-89	7	112,100	3960	6.0	28.3	12.0	conical	7	
2	07-24-89	07-31-89	7	111,000	3930	6.0	28.3	12.0	conical	7	
3	07-24-89	08-21-89	28								
4	07-24-89	08-21-89	28								

CAST BY: Empire Laboratories BROKEN BY: 3 day \_\_\_\_\_ 7 day \_\_\_\_\_ DM 14 day \_\_\_\_\_ 28 day \_\_\_\_\_ 45 day \_\_\_\_\_ CONCRETE SUPPLIER: Mobile Premix

DISTRIBUTION: Fairfield Homes (2); City of Fort Collins (1); Parsons & Assoc. (1); Mobile Premix (1).



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**SAMPLING**  
C172-82

**MAKING & CURING TEST SPECIMENS**  
Field C31-85

**CAPPING**  
C617-85b

**COMPRESSIVE STRENGTH**  
C39-86

NAME OF PROJECT Creekside / Landings 4th

CONTRACTOR Fairfield Homes

ENGINEER OR ARCHITECT Parsons & Associates MIX NO. \_\_\_\_\_

LOCATION OF PLACEMENT Curb and gutter - Radius intersection Breakwater Dr. and Creekside Ct. S.E. corner.

EMPIRE JOB NO. 2529 REPORT NO. 2

FINE 1460 Lbs. MEDIUM 1600 Lbs. COARSE AGG. \_\_\_\_\_ Lbs. CEMENT 451 Lbs. FLY ASH 113 Lbs. WATER 33 Gals.

REQUIRED STRENGTH 3500 SLUMP 2-1/2 In. AIR 6.0 % UNIT WEIGHT 141.44 #/ft.<sup>3</sup> YIELD 27.57 Ft.<sup>3</sup>/Yd.<sup>3</sup>

TEMP. (CONCRETE) 74 °F (AMBIENT) 77 °F WRA 3 oz./cwt AIR ENTRAINMENT 1.6 oz/sack

TRUCK NO. 58 TIME 9:50 CUBIC YARDS 7 CALCIUM CHLORIDE \_\_\_\_\_ ACCELERATOR \_\_\_\_\_

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN.	CROSS SECTIONAL AREA IN.	LENGTH IN.	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	07-20-89	07-27-89	7	93,700	3310	6.0	28.3	12.0	conical	7	
2	07-20-89	07-27-89	7	93,900	3280	6.0	28.3	12.0	conical	7	
3	07-20-89	08-17-89	28								
4	07-20-89	08-17-89	28								

CAST BY: Empire Laboratories BROKEN BY: 3 day \_\_\_\_\_ 7 day DM 14 day \_\_\_\_\_ 28 day \_\_\_\_\_ 45 day \_\_\_\_\_ CONCRETE SUPPLIER: Mobile Premix

DISTRIBUTION: Fairfield Homes (2); City of Ft. Collins (1); Parsons & Associates (1); Mobile Premix (1).





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**MAKING & CURING TEST SPECIMENS**  
Field C31-85 Laboratory C192-81

**CAPPING**  
C617-85b

**COMPRESSIVE STRENGTH**  
C39-86

NAME OF PROJECT Creekside / Landings 4th

CONTRACTOR Freund & Co.

ENGINEER OR ARCHITECT \_\_\_\_\_ MIX NO. \_\_\_\_\_

LOCATION OF PLACEMENT Sidewalk - 85' South of Boardwalk Dr. and Breakwater Dr. East Side of Street

EMPIRE JOB NO. 2529 REPORT NO. 4

FINE 1460 Lbs. MEDIUM 1600 Lbs. COARSE AGG. \_\_\_\_\_ Lbs. CEMENT 564 Lbs. FLY ASH \_\_\_\_\_ Lbs. WATER 34 Gals.

REQUIRED STRENGTH 3500 SLUMP 4 in. AIR 5.8 % UNIT WEIGHT 142.08 #/ft.<sup>3</sup> YIELD 27.50 Ft.<sup>3</sup>/Yd.<sup>3</sup>

TEMP. (CONCRETE) 72 °F (AMBIENT) 73 °F WRA 2 oz./cwt AIR ENTRAINMENT .19 oz./sack

TRUCK NO. 184 TIME 2:15 CUBIC YARDS 8 CALCIUM CHLORIDE \_\_\_\_\_ ACCELERATOR \_\_\_\_\_

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN.	CROSS SECTIONAL AREA IN. <sup>2</sup>	LENGTH IN.	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	10-04-89	10-11-89	7	105,500	3730	6.0	28.3	12.0	conical	7	
2	10-04-89	10-11-89	7	100,500	3550	6.0	28.3	12.0	conical	7	
3	10-04-89	11-01-89	28	125,500	4440	6.0	28.3	12.0	conical	28	
4	10-04-89	11-01-89	28	127,000	4490	6.0	28.3	12.0	conical	28	

CAST BY: Empire Laboratories BROKEN BY: 3 day \_\_\_\_\_ 7 day \_\_\_\_\_ 14 day \_\_\_\_\_ 28 day CB 45 day \_\_\_\_\_ CONCRETE SUPPLIER: Western Mobile

DISTRIBUTION: Fairfield Homes(1); City of Fort Collins (1); Parsons (1); Western Mobile (1).



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C172-82

**MAKING & CURING TEST SPECIMENS**  
Field C31-85  
Laboratory C192-81

**CAPPING**  
C617-85b

**COMPRESSIVE STRENGTH**  
C39-86






NAME OF PROJECT Creekside/Landings 4th

CONTRACTOR Thoutt

ENGINEER OR ARCHITECT \_\_\_\_\_ MIX NO. \_\_\_\_\_

LOCATION OF PLACEMENT Drainage culvert - 4210 Breakwater Court east side

EMPIRE JOB NO. 2529 REPORT NO. 5

FINE 1325 Lbs. <sup>1/4"</sup> MEDIUM 200 Lbs. COARSE AGG. 1525 Lbs. CEMENT 490 Lbs. FLY ASH 74 Lbs. WATER 34 Gals.

REQUIRED STRENGTH 3500 SLUMP 2 in. AIR 6.2 % UNIT WEIGHT 143.0 \*/Ft.<sup>3</sup> YIELD 27.25 Ft.<sup>3</sup>/Yd.<sup>3</sup>

TEMP. (CONCRETE) 67 °F (AMBIENT) 52 °F WRA \_\_\_\_\_ AIR ENTRAINMENT 0.92 oz/sack

TRUCK NO. 185 TIME 1:20 CUBIC YARDS 3 CALCIUM CHLORIDE \_\_\_\_\_ ACCELERATOR \_\_\_\_\_

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN.	CROSS SECTIONAL AREA IN.	LENGTH IN.	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	12/28/89	1/4/90	7	90,000	3180	6.0	28.3	12.0	conical	7	
2	12/28/89	1/4/90	7	90,000	3180	6.0	28.3	12.0	conical	7	
3	12/28/89	1/25/90	28	128,500	4550	6.0	28.3	12.0	conical	28	
4	12/28/89	1/25/90	28	129,000	4560	6.0	28.3	12.0	conical	28	

CAST BY: Empire Laboratories BROKEN BY: 3 day \_\_\_\_\_ 7 day LEM 14 day \_\_\_\_\_ 28 day JK 45 day \_\_\_\_\_ CONCRETE SUPPLIER: Western Mobile

DISTRIBUTION: Fairfield Homes (2); City of Fort Collins (1); Parsons & Associates (1); Western Mobile (1)



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### MAKING & CURING TEST SPECIMENS

Field C31-85

Laboratory C192-81

### CAPPING

C617-85b

### COMPRESSIVE STRENGTH

C39-86

NAME OF PROJECT Creekside/Landings 4th

CONTRACTOR Thoutt

ENGINEER OR ARCHITECT \_\_\_\_\_ MIX NO. \_\_\_\_\_

LOCATION OF PLACEMENT Drainage culvert - 4210 Breakwater Court east side

EMPIRE JOB NO. 2529 REPORT NO. 5

FINE 1325 Lbs. <sup>1/4"</sup> MEDIUM 200 Lbs. COARSE AGG. 1525 Lbs. CEMENT 490 Lbs. FLY ASH 74 Lbs. WATER 34 Gals.

REQUIRED STRENGTH 3500 SLUMP 2 in. AIR 6.2 % UNIT WEIGHT 143.0 \*/ft<sup>3</sup> YIELD 27.25 Ft<sup>3</sup>/Yd<sup>3</sup>

TEMP. (CONCRETE) 67 °F (AMBIENT) 52 °F WRA \_\_\_\_\_ AIR ENTRAINMENT 0.92 oz/sack

TRUCK NO. 185 TIME 1:20 CUBIC YARDS 3 CALCIUM CHLORIDE \_\_\_\_\_ ACCELERATOR \_\_\_\_\_

CYLINDER NO.	DATE MADE	DATE BROKEN	BREAK DAYS	BREAK POUNDS	BREAK PSI	AVG. DIA. IN.	CROSS SECTIONAL AREA IN.	LENGTH IN.	TYPE OF FRACTURE	Cure	
										Lab	Day/Field
1	12/28/89	1/4/90	7	90,000	3180	6.0	28.3	12.0	conical	7	
2	12/28/89	1/4/90	7	90,000	3180	6.0	28.3	12.0	conical	7	
3	12/28/89	1/25/90	28								
4	12/28/89	1/25/90	28								

CAST BY: Empire Laboratories BROKEN BY: 3 day \_\_\_\_\_ 7 day LEM 14 day \_\_\_\_\_ 28 day \_\_\_\_\_ 45 day \_\_\_\_\_ CONCRETE SUPPLIER: Western Mobile

DISTRIBUTION: Fairfield Homes (2); City of Fort Collins (1); Parsons & Associates (1); Western Mobile (1)