

BTE CONCRETE FORMWORK LLC  
 P.O. BOX 1944  
 GLENWOOD SPRINGS CO 81602  
 Attention: MR. RAY SCHMAHL

Date: November 28, 2001  
 Report ID: C4602 - GS - 3525

## Report of Concrete Compressive Strength Tests

Project: 27TH STREET BRIDGE  
 GLENWOOD SPRINGS, COLORADO  
 Location: BRIDGE DECK

Supplier: LAFARGE

Cast Date: 10/30/2001	Ticket: 11001437	Batch Time: 8:29	Concrete Mix:
Specimens Made By: WR	Truck Number: 9828	Test Time: 9:01	CLASS D

Physical Properties of Concrete (ASTM C143, C231, C138, C1064)				
Specified Strength (f'c)	Slump	Air Content	Density	Temperature
4500 psi @ 28 days	4 in.	6.5 %	141.7 pcf.	72 deg. F

### Compressive Strengths (ASTM C39)

Specimen Number	Age in Days	Diameter (inches)	Area (sq. inches)	Load (lbs.)	Compressive Strength (psi)	Percent of f'c	Type of Fracture
1	6	4.00	12.57	52,000	4140		
2	6	4.00	12.57	52,500	4180		
Average:					4150	92	
3	7	4.00	12.57	59,000	4700		
Average:					4700	104	
4	28	4.00	12.57	71,000	5650		
5	28	4.00	12.57	72,500	5770		
Average:					5710	127	

CTL/Thompson, Inc.

by: Dan Downing  
 Dan Downing

cc: LAFARGE

BTE CONCRETE FORMWORK LLC  
 NOV 28 2001

Comments: CYLINDERS 1 AND 2 ARE FIELD CURED

**CTL/THOMPSON, INC.**  
 CONSULTING ENGINEERS

234 CENTER DRIVE ■ GLENWOOD SPRINGS, COLORADO 81601 ■ (970) 945-2809



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Date: November 27, 2001  
 Report ID: C4601 - GS - 3525

### Report of Concrete Compressive Strength Tests

Project: 27TH STREET BRIDGE  
 GLENWOOD SPRINGS, COLORADO  
 Location: BRIDGE DECK

Supplier: LAFARGE

Cast Date: 10/30/2001	Ticket: 4006249	Batch Time: 7:28	Concrete Mix:
Specimens Made By: WR	Truck Number: 9947	Test Time: 8:32	CLASS D

Physical Properties of Concrete (ASTM C143, C231, C138, C1064)				
Specified Strength (f <sub>c</sub> )	Slump	Air Content	Density	Temperature
4500 psi @ 28 days	3.75 in.	4.1 %	143.8 pcf.	67 deg. F

#### Compressive Strengths (ASTM C39)

Specimen Number	Age in Days	Diameter (inches)	Area (sq. inches)	Load (lbs.)	Compressive Strength (psi)	Percent of f <sub>c</sub>	Type of Fracture
1	6	4.00	12.57	54,000	4300		
2	6	4.00	12.57	57,000	4540		
Average:					4420	98	
3	7	4.00	12.57	61,500	4890		
Average:					4890	109	
4	28	4.00	12.57	74,500	5930		
5	28	4.00	12.57	77,000	6130		
Average:					6030	134	

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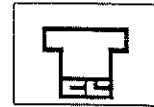
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Location: BRIDGE DECK

Supplier: LAFARGE

Cast Date: 10/30/2001	Ticket: 11001445	Batch Time: 9:30	Concrete Mix:
Specimens Made By: WR	Truck Number: 9827	Test Time: 10:05	CLASS D

Physical Properties of Concrete (ASTM C143, C231, C138, C1064)				
Specified Strength (f'c)	Slump	Air Content	Density	Temperature
4500 psi @ 28 days	4.5 in.	6.3 %	142.4 pcf.	70 deg. F

#### Compressive Strengths (ASTM C39)

Specimen Number	Age in Days	Diameter (inches)	Area (sq. inches)	Load (lbs.)	Compressive Strength (psi)	Percent of f'c	Type of Fracture
1	6	4.00	12.57	58,000	4620		
2	6	4.00	12.57	57,000	4540		
Average:					4580	102	
3	7	4.00	12.57	62,000	4930		
Average:					4930	110	
4	28	4.00	12.57	76,000	6050		
5	28	4.00	12.57	73,000	5810		
Average:					5930	132	

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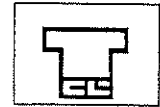
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4500 psi @ 28 days	4.5 in.	6.3 %	142.4 pcf.	70 deg. F

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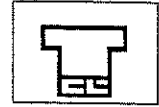
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