

BH PARKER, INC  
 10630 EAST BETHANY DEIVE  
 SUITE B  
 PARKER CO 80014

Date: 12/11/2014  
 Report ID: K109237 - DN46355.001

### Report of Concrete Compressive Strength Tests

Project: *LOT 1, BLOCK 17, HORSESHOE RIDGE  
 NWC HESS ROAD AND PARDEE STREET*

Supplier: *MARTIN MARIETTA*

Location: *REPORT 22. WALKING TRAIL APPROXIMATELY 300' SOUTH OF CORAL BURST LANE AND 400' WEST TRIPLE CROWN DRIVE*

Cast Date: 11/6/2014	Ticket: 36027509	Batch Time: 07:14	Concrete Mix: CD4525
In-Lab Date: 11/10/2014	Truck Number: 641	Test Time: 08:15	Specimens Made By: PARFITT

Initial Curing		Final Curing	
Curing Method: <i>Other</i>	Min. Temp: ° F	Max Temp: ° F	Curing Method: <i>Fog Room</i>

Physical Properties of Concrete (ASTM C143, C231, C138, C1064)				
Specified Strength (f'c) <i>4500 psi @ 28 days</i>	Slump <i>3.50 in.</i>	Air Content <i>7.2%</i>	Density <i>141.5 pcf.</i>	Temperature <i>69 deg. F</i>

#### Compressive Strengths (ASTM C39)

Specimen Number	Age in Days	Diameter (inches)	Area (sq. inches)	Max. Load (lbs.)	Compressive Strength (psi)	Percent of f'c	Type of Fracture
1	7	4.00	12.57	50,300	4000		5
Average:					4000	89	
2	28	4.00	12.57	70,030	5570		5
3	28	4.00	12.57	69,325	5520		5
4	28	4.00	12.57	66,170	5270		5
5	28	4.00	12.57	65,175	5190		5
Average:					5390	120	

CTL | Thompson, Inc

cc: MARTIN MARIETTA

CHRISTOPHER N. BOUCHET  
 STAFF ENGINEER

Comments: THE AVERAGE 28 DAY COMPRESSIVE STRENGTH ACHIEVED SPECIFIED STRENGTH. NOTIFIED CONTRACTOR OF PHYSICAL PROPERTY RESULTS

BH PARKER, INC  
 10630 EAST BETHANY DEIVE  
 SUITE B  
 PARKER CO 80014

Date: 12/11/2014  
 Report ID: K109238 - DN46355.001

### Report of Concrete Compressive Strength Tests

Project: *LOT 1, BLOCK 17, HORSESHOE RIDGE  
 NWC HESS ROAD AND PARDEE STREET*

Supplier: *MARTIN MARIETTA*

Location: *REPORT 23. SIDEWALK, APPROX 250' SOUTH OF SOUTHWEST CORNER OF CORAL BURST LANE  
 AND CORAL BURST COURT*

Cast Date: 11/6/2014	Ticket: 36027525	Batch Time: 09:53	Concrete Mix: CD4525
In-Lab Date: 11/10/2014	Truck Number: 107	Test Time: 11:25	Specimens Made By: PARFITT

Initial Curing		Final Curing	
Curing Method: <i>Other</i>	Min. Temp: ° F	Max Temp: ° F	Curing Method: <i>Fog Room</i>

Physical Properties of Concrete (ASTM C143, C231, C138, C1064)				
Specified Strength (f'c) <i>4500 psi @ 28 days</i>	Slump <i>3.75 in.</i>	Air Content <i>5.0%</i>	Density <i>144.6 pcf.</i>	Temperature <i>72 deg. F</i>

#### Compressive Strengths (ASTM C39)

Specimen Number	Age in Days	Diameter (inches)	Area (sq. inches)	Max. Load (lbs.)	Compressive Strength (psi)	Percent of f'c	Type of Fracture
1	7	4.00	12.57	47,745	3800		2
Average:					3800	84	
2	28	4.00	12.57	68,200	5430		5
3	28	4.00	12.57	71,120	5660		5
4	28	4.00	12.57	71,250	5670		5
5	28	4.00	12.57	73,150	5820		5
Average:					5640	125	

CTL | Thompson, Inc

cc: MARTIN MARIETTA

CHRISTOPHER N. BOUCHET  
 STAFF ENGINEER

Comments: THE AVERAGE 28 DAY COMPRESSIVE STRENGTH ACHIEVED SPECIFIED STRENGTH. NOTIFIED CONTRACTOR OF PHYSICAL PROPERTY RESULTS

BH PARKER, INC  
10630 EAST BETHANY DEIVE  
SUITE B  
PARKER CO 80014

Date: 12/12/2014  
Report ID: K109241 - DN46355.001

## Report of Concrete Compressive Strength Tests

Project: **LOT 1, BLOCK 17, HORSESHOE RIDGE**  
**NWC HESS ROAD AND PARDEE STREET**

Supplier: **AGGREGATE INDUSTRIES**

Location: **REPORT 24. CUT OFF WALL ON THE SOUTH SIDE OF DETENTION POND**

Cast Date: 11/14/2014 In-Lab Date: 11/17/2014	Ticket: 67575219 Truck Number: 622	Batch Time: 14:36 Test Time: 16:00	Concrete Mix: 9458141 Specimens Made By: PARFITT
--	---------------------------------------	---------------------------------------	---

<b>Initial Curing</b>		<b>Final Curing</b>	
Curing Method: <b>Other</b>	Min. Temp: ° F	Max Temp: ° F	Curing Method: <b>Fog Room</b>

Physical Properties of Concrete (ASTM C143, C231, C138, C1064)				
Specified Strength (f'c) <b>4000 psi @ 28 days</b>	Slump <b>3.75 in.</b>	Air Content <b>6.6%</b>	Density <b>139.7 pcf.</b>	Temperature <b>71 deg. F</b>

### Compressive Strengths (ASTM C39)

Specimen Number	Age in Days	Diameter (inches)	Area (sq. inches)	Max. Load (lbs.)	Compressive Strength (psi)	Percent of f'c	Type of Fracture
1	7	4.00	12.57	44,500	3540		2
Average:					3540	89	
2	28	4.00	12.57	60,550	4820		5
3	28	4.00	12.57	59,900	4770		5
4	28	4.00	12.57	59,015	4700		5
5	28	4.00	12.57	60,745	4830		5
Average:					4780	120	

CTL | Thompson, Inc

cc: AGGREGATE INDUSTRIES

CHRISTOPHER N. BOUCHET  
STAFF ENGINEER

Comments: **THE AVERAGE 28 DAY COMPRESSIVE STRENGTH ACHIEVED SPECIFIED STRENGTH. NOTIFIED CONTRACTOR OF PHYSICAL PROPERTY RESULTS**