



Empire Laboratories, Inc.
A Division of The Terracon Companies, Inc.

301 N. Howes Street
Ft. Collins, CO 80521
Phone (303) 484-0359
Fax (303) 484-0454

CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: Slab on grade, crossspan Plumstone				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 7	Date: 10/7/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: 6502		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 7:35 a.m.	Specifications	Measured	Water Added (gal): 10.0
Ticket No.: 015396	Sample Time: 8:45 a.m.	Air (%):	Air (%): 6.0	Unit Weight (#/Ft ³):
Truck No.: 38	Concrete Temperature °F: 80	Slump (in):	Slump (in): 3	Specimen Size: 6x12
Batch Size: 8	Ambient Temperature °F: 50	Strength (psi): 3500	(7): 3880 (28): 4600	No. of Cylinders: 4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	10/7/94	φ	7	10/14/94	7	6.00	28.27	12.0	107,500	3800	Conical	JR
2	10/7/94	φ	7	10/14/94	7	6.00	28.27	12.0	112,000	3960	Conical	JR
3	10/7/94	φ	28	11/4/94	28	6.04	28.65	12.0	132,500	4620	Conical	TM
4	10/7/94	φ	28	11/4/94	28	6.04	28.65	12.0	131,000	4570	Conical	TM

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.		
Contractor: CG & S		Sample No.: 8		Date: 10/7/94	Sampling ASTM C172	X
Engineer/Architect: N/A		Concrete No.: 3089		Empire Job No.: 2094	Making ASTM C31	X
Location of Placement: Curb and gutter; NH 5-8		Reviewed by: Mike L. Walker		Mix I.D. No.: N/A	Curing C192	X
Capping C617		Compressive Strength C39				X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 11:10 a.m.	Specifications	Measured	Water Added (gal):	5
Ticket No.: 07625	Sample Time: 11:50 a.m.	Air (%):	Air (%): 8.0	Unit Weight (#/Ft ³):	
Truck No.: 35	Concrete Temperature °F: 82	Slump (in):	Slump (in): 5	Specimen Size:	6x12
Batch Size: 10	Ambient Temperature °F: 65	Strength (psi): 3500	(7): 3650 (28): 4640	No. of Cylinders:	4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):	
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):	

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	10/7/94	1	6	10/14/94	7	6.00	28.27	12.0	111,000	3930	Conical	JR
2	10/7/94	1	6	10/14/94	7	6.00	28.27	12.0	95,000	3360	Conical	JR
3	10/7/94	1	27	11/4/94	28	6.05	28.65	12.0	132,000	4610	Conical	TM
4	10/7/94	1	27	11/4/94	28	6.04	28.65	12.0	133,500	4660	Conical	TM

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: Curb and gutter; NH 5-8				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 8	Date: 10/7/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: N/A		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 11:10 a.m.	Specifications	Measured	Water Added (gal): 5
Ticket No.: 07625	Sample Time: 11:50 a.m.	Air (%):	Air (%): 8.0	Unit Weight (#/Ft ³):
Truck No.: 35	Concrete Temperature °F: 82	Slump (in):	Slump (in): 5	Specimen Size: 6x12
Batch Size: 10	Ambient Temperature °F: 65	Strength (psi): 3500	(7): 3650 (28):	No. of Cylinders: 4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	10/7/94	1	6	10/14/94	7	6.00	28.27	12.0	111,000	3930	Conical	JR
2	10/7/94	1	6	10/14/94	7	6.00	28.27	12.0	95,000	3360	Conical	JR
3	10/7/94	1	27	11/4/94	28							
4	10/7/94	1	27	11/4/94	28							

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: Slab on grade, crossspan Plumstone				Curing C192	
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 7	Date: 10/7/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: 6502		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 7:35 a.m.	Specifications	Measured	Water Added (gal): 10.0
Ticket No.: 015396	Sample Time: 8:45 a.m.	Air (%):	Air (%): 6.0	Unit Weight (#/Ft ³):
Truck No.: 38	Concrete Temperature °F: 80	Slump (in):	Slump (in): 3	Specimen Size: 6x12
Batch Size: 8	Ambient Temperature °F: 50	Strength (psi): 3500	(7): 3880 (28):	No. of Cylinders: 4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	10/7/94	φ	7	10/14/94	7	6.00	28.27	12.0	107,500	3800	Conical	JR
2	10/7/94	φ	7	10/14/94	7	6.00	28.27	12.0	112,000	3960	Conical	JR
3	10/7/94	φ	28	11/4/94	28							
4	10/7/94	φ	28	11/4/94	28							

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: Horsetooth, 75'E of south entrance, 650'W of County Road 9				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 6	Date: 9/28/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: N/A		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 10:32 a.m.	Specifications		Measured		Water Added (gal): ϕ
Ticket No.: 015032	Sample Time: 10:55 a.m.	Air (%): 5-7	Air (%): 6.2	Unit Weight (#/Ft ³):		
Truck No.: 32	Concrete Temperature °F: 72	Slump (in): 4	Slump (in): 1 3/4	Specimen Size: 6x12		
Batch Size: 8	Ambient Temperature °F: 83	Strength (psi): 3500	(7): 3280 (28): 3990	No. of Cylinders: 4		
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):		
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):		

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/28/94	ϕ	7	10/5/94	7	6.00	28.27	12.0	91,000	3220	Conical	JR
2	9/28/94	ϕ	7	10/5/94	7	6.00	28.27	12.0	94,000	3330	Conical	JR
3	9/28/94	ϕ	28	10/26/94	28	6.00	28.27	12.0	112,500	3980	Conical	BD
4	9/28/94	ϕ	28	10/26/94	28	6.00	28.27	12.0	113,000	4000	Conical	BD

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: Horsetooth, 75'E of south entrance, 650'W of County Road 9				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 6	Date: 9/28/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: N/A		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 10:32 a.m.	Specifications	Measured	Water Added (gal): ϕ
Ticket No.: 015032	Sample Time: 10:55 a.m.	Air (%): 5-7	Air (%): 6.2	Unit Weight (#/Ft ³):
Truck No.: 32	Concrete Temperature °F: 72	Slump (in): 4	Slump (in): 1 3/4	Specimen Size: 6x12
Batch Size: 8	Ambient Temperature °F: 83	Strength (psi): 3500	(7): 3280 (28):	No. of Cylinders: 4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/28/94	ϕ	7	10/5/94	7	6.00	28.27	12.0	91,000	3220	Conical	JR
2	9/28/94	ϕ	7	10/5/94	7	6.00	28.27	12.0	94,000	3330	Conical	JR
3	9/28/94	ϕ	28	10/26/94	28							
4	9/28/94	ϕ	28	10/26/94	28							

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: 250'E of Kingsley on Fieldstone, south lane				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 5	Date: 9/12/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: N/A		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 9:40 a.m.	Specifications		Measured		Water Added (gal): ϕ
Ticket No.: 014302	Sample Time: 10:25 a.m.	Air (%): 5-7	Air (%): 6.5	Unit Weight (#/Ft ³): 139.34		
Truck No.: 17	Concrete Temperature °F: 82	Slump (in): 4	Slump (in): 1 1/4	Specimen Size: 6x12		
Batch Size: 10	Ambient Temperature °F: 79	Strength (psi): 3500	(7): 3070 (28): 4000	No. of Cylinders: 4		
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):		
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):		

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (Inches)	Cross Section Area, in. ²	Length (Inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/12/94	ϕ	7	9/19/94	7	6.00	28.27	12.0	86,500	3060	Conical	JR
2	9/12/94	ϕ	7	9/19/94	7	6.00	28.27	12.0	87,000	3080	Conical	JR
3	9/12/94	ϕ	28	10/10/94	28	6.00	28.27	12.0	112,500	3980	Conical	TM
4	9/12/94	ϕ	28	10/10/94	28	6.00	28.27	12.0	114,000	4030	Conical	TM

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: 250'E of Kingsley on Fieldstone, south lane				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 5	Date: 9/12/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: N/A		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 9:40 a.m.	Specifications	Measured	Water Added (gal): ϕ
Ticket No.: 014302	Sample Time: 10:25 a.m.	Air (%): 5-7	Air (%): 6.5	Unit Weight (#/Ft ³): 139.34
Truck No.: 17	Concrete Temperature °F: 82	Slump (in): 4	Slump (in): 1 3/4	Specimen Size: 6x12
Batch Size: 10	Ambient Temperature °F: 79	Strength (psi): 3500	(7): 3070 (28):	No. of Cylinders: 4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/12/94	ϕ	7	9/19/94	7	6.00	28.27	12.0	86,500	3060	Conical	JR
2	9/12/94	ϕ	7	9/19/94	7	6.00	28.27	12.0	87,000	3080	Conical	JR
3	9/12/94	ϕ	28	10/10/94	28							
4	9/12/94	ϕ	28	10/10/94	28							

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: Peach Stone Place at Lot 56				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 3	Date: 9/8/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: 6026		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 9:26 a.m.	Specifications	Measured	Water Added (gal): 4
Ticket No.: 014164	Sample Time: 10:40 a.m.	Air (%): 5-7	Air (%): 6.4	Unit Weight (#/Ft ³):
Truck No.: 25	Concrete Temperature °F: 82	Slump (in): 4"	Slump (in): 2	Specimen Size: 6x12
Batch Size: 8	Ambient Temperature °F: 85	Strength (psi): 3500	(7): 3200 (28): 3980	No. of Cylinders: 4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/8/94	φ	7	9/15/94	7	6.00	28.27	12.0	90,000	3180	Conical	TM
2	9/8/94	φ	7	9/15/94	7	6.00	28.27	12.0	91,000	3220	Conical	TM
3	9/8/94	φ	28	10/6/94	28	6.00	28.27	12.0	112,000	3960	Conical	JR
4	9/8/94	φ	28	10/6/94	28	6.00	28.27	12.0	113,000	4000	Conical	JR

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: Field Stone Drive, 50'E of Plum Stone Place, south lane				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 4	Date: 9/8/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: 6026		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 1:24 p.m.	Specifications	Measured	Water Added (gal): 5.0
Ticket No.: 014186	Sample Time: 2:05 p.m.	Air (%): 5-7	Air (%): 7.8	Unit Weight (#/Ft ³):
Truck No.: 48	Concrete Temperature °F: 90	Slump (in):	Slump (in): 2½	Specimen Size: 6x12
Batch Size: 10	Ambient Temperature °F: 87	Strength (psi): 3500	(7): 3150 (28): 4080	No. of Cylinders: 4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (Inches)	Cross Section Area, in. ²	Length (Inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/8/94	φ	7	9/15/94	7	6.00	28.27	12.0	88,000	3110	Conical	TM
2	9/8/94	φ	7	9/15/94	7	6.00	28.27	12.0	87,500	3100	Conical	TM
3	9/8/94	φ	28	10/6/94	28	6.00	28.27	12.0	114,000	4030	Conical	JR
4	9/8/94	φ	28	10/6/94	28	6.00	28.27	12.0	116,500	4120	Conical	JR

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: Peach Stone Place at Lot 56				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 3	Date: 9/8/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: 6026		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 9:26 a.m.	Specifications	Measured	Water Added (gal): 4
Ticket No.: 014164	Sample Time: 10:40 a.m.	Air (%): 5-7	Air (%): 6.4	Unit Weight (#/Ft ³):
Truck No.: 25	Concrete Temperature °F: 82	Slump (in): 4"	Slump (in): 2	Specimen Size: 6x12
Batch Size: 8	Ambient Temperature °F: 85	Strength (psi): 3500	(7): 3200 (28):	No. of Cylinders: 4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/8/94	φ	7	9/15/94	7	6.00	28.27	12.0	90,000	3180	Conical	TM
2	9/8/94	φ	7	9/15/94	7	6.00	28.27	12.0	91,000	3220	Conical	TM
3	9/8/94	φ	28	10/6/94	28							
4	9/8/94	φ	28	10/6/94	28							

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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A Division of The Terracon Companies, Inc.

301 N. Howes Street
Ft. Collins, CO 80521
Phone (303) 484-0359
Fax (303) 484-0454

CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S		Sample No.: 4		Date: 9/8/94	
Engineer/Architect: N/A		Mix I.D. No.: 6026		Sampling ASTM C172	X
Location of Placement: Field Stone Drive, 50'E of Plum Stone Place, south lane				Making ASTM C31	X
Empire Job No.: 2094		Concrete No.: 3089		Curing C192	X
Reviewed by: Mike L. Walker		Date: 9/8/94		Capping C617	X
				Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 1:24 p.m.	Specifications	Measured	Water Added (gal): 5.0
Ticket No.: 014186	Sample Time: 2:05 p.m.	Air (%): 5-7	Air (%): 7.8	Unit Weight (#/Ft ³):
Truck No.: 48	Concrete Temperature °F: 90	Slump (in):	Slump (in): 2½	Specimen Size: 6x12
Batch Size: 10	Ambient Temperature °F: 87	Strength (psi): 3500	(7): 3150 (28):	No. of Cylinders: 4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/8/94	φ	7	9/15/94	7	6.00	28.27	12.0	88,000	3110	Conical	TM
2	9/8/94	φ	7	9/15/94	7	6.00	28.27	12.0	87,500	3100	Conical	TM
3	9/8/94	φ	28	10/6/94	28							
4	9/8/94	φ	28	10/6/94	28							

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: Curb & gutter, south side Cherry Stone Place at Lot #3				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 1	Date: 9/7/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: N/A		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 10:45 a.m.	Specifications		Measured		Water Added (gal): ϕ
Ticket No.: 014102	Sample Time: 11:20 a.m.	Air (%): 5-7	Air (%): 7.0	Unit Weight (#/Ft ³):		
Truck No.: 30	Concrete Temperature °F: 80	Slump (in): 4"	Slump (in): 1 1/4	Specimen Size: 6x12		
Batch Size: 8	Ambient Temperature °F: 87	Strength (psi): 3500	(7): 2950	(28):	No. of Cylinders: 4	
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):		
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):		

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/7/94	ϕ	7	9/14/94	7	6.00	28.27	12.0	87,500	3100	Conical	JR
2	9/7/94	ϕ	7	9/14/94	7	6.00	28.27	12.0	79,000	2790	Conical	JR
3	9/7/94	ϕ	28	10/5/94	28							
4	9/7/94	ϕ	28	10/5/94	28							

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S		Sample No.: 2		Date: 9/7/94	
Engineer/Architect: N/A		Concrete No.: 3089		Mix I.D. No.: N/A	
Location of Placement: Cherry Stone Court at Lot #45		Reviewed by: Mike L. Walker		Compressive Strength C39	
				Capping C617	
				Curing C192	
				Making ASTM C31	
				Sampling ASTM C172	

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 1:40 p.m.	Specifications	Measured	Water Added (gal): ϕ
Ticket No.: 014123	Sample Time: 2:30 p.m.	Air (%): 5-7	Air (%): 6.2	Unit Weight (#/Ft ³):
Truck No.: 51	Concrete Temperature °F: 87	Slump (in): 4"	Slump (in): 2½	Specimen Size: 6x12
Batch Size: 8	Ambient Temperature °F: 90	Strength (psi): 3500	(7): 2600 (28):	No. of Cylinders: 4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/7/94	ϕ	7	9/14/94	7	6.00	28.27	12.0	72,000	2550	Conical	JR
2	9/7/94	ϕ	7	9/14/94	7	6.00	28.27	12.0	74,500	2640	Conical	JR
3	9/7/94	ϕ	28	10/5/94	28							
4	9/7/94	ϕ	28	10/5/94	28							

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.		
Contractor: CG & S		Engineer/Architect: N/A		Sampling ASTM C172	X	
Location of Placement: Curb & gutter, south side Cherry Stone Place at Lot #3				Making ASTM C31	X	
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 1	Date: 9/7/94	Curing C192	X	
Reviewed by: Mike L. Walker		Mix I.D. No.: N/A		Capping C617	X	
Compressive Strength C39						X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 10:45 a.m.	Specifications		Measured		Water Added (gal): ϕ
Ticket No.: 014102	Sample Time: 11:20 a.m.	Air (%): 5-7	Air (%): 7.0	Unit Weight (#/Ft ³):		
Truck No.: 30	Concrete Temperature °F: 80	Slump (in): 4"	Slump (in): 1 3/4	Specimen Size: 6x12		
Batch Size: 8	Ambient Temperature °F: 87	Strength (psi): 3500	(7): 2950 (28): 4080	No. of Cylinders: 4		
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):		
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):		

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (Inches)	Cross Section Area, in. ²	Length (Inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/7/94	ϕ	7	9/14/94	7	6.00	28.27	12.0	87,500	3100	Conical	JR
2	9/7/94	ϕ	7	9/14/94	7	6.00	28.27	12.0	79,000	2790	Conical	JR
3	9/7/94	ϕ	28	10/5/94	28	6.00	28.27	12.0	116,500	4120	Conical	JR
4	9/7/94	ϕ	28	10/5/94	28	6.00	28.27	12.0	114,000	4030	Conical	JR

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway



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CONCRETE TEST RESULTS

Project Name & Location: Stone Ridge - Third Filing				The following tests have been performed by Empire in accordance with ASTM procedures.	
Contractor: CG & S				Sampling ASTM C172	X
Engineer/Architect: N/A				Making ASTM C31	X
Location of Placement: Cherry Stone Court at Lot #45				Curing C192	X
Empire Job No.: 2094	Concrete No.: 3089	Sample No.: 2	Date: 9/7/94	Capping C617	X
Reviewed by: Mike L. Walker		Mix I.D. No.: N/A		Compressive Strength C39	X

CONCRETE MIX DESIGN DATA

Supplier: Bestway	Batch Time: 1:40 p.m.	Specifications	Measured	Water Added (gal):	φ
Ticket No.: 014123	Sample Time: 2:30 p.m.	Air (%): 5-7	Air (%): 6.2	Unit Weight (#/Ft ³):	
Truck No.: 51	Concrete Temperature °F: 87	Slump (in): 4"	Slump (in): 2½	Specimen Size:	6x12
Batch Size: 8	Ambient Temperature °F: 90	Strength (psi): 3500	(7): 2600 (28): 3520	No. of Cylinders:	4
Fine Agg. (lbs):	Medium Agg. (lbs):	Coarse Agg. (lbs):	Cement (lbs):	Fly Ash (lbs):	
Water (gal):	WRA (oz/100#):	Air Ent (oz/sack):	Other:	Yield (Ft ³ /Yd ³):	

CYLINDER TEST DATA

Cylinder No.	Date Made	Days Cured		Date Tested	Sample Age (Days)	Diameter (inches)	Cross Section Area, in. ²	Length (inches)	Test Load (pounds)	Measured Strength (psi)	Type of Fracture	Tested By
		Field	Lab									
1	9/7/94	φ	7	9/14/94	7	6.00	28.27	12.0	72,000	2550	Conical	JR
2	9/7/94	φ	7	9/14/94	7	6.00	28.27	12.0	74,500	2640	Conical	JR
3	9/7/94	φ	28	10/5/94	28	6.00	3470	12.0	98,000	3470	Conical	JR
4	9/7/94	φ	28	10/5/94	28	6.00	3570	12.0	101,000	3570	Conical	JR

Distribution: (1) Kaplan; (1) CG & S; (1) City; (1) Bestway