JORDAN Consulting Engineers, Inc.

February 26, 2004

Joe London Western Plains Resources P.O. Box 457 Frisco, Texas 75034

RE:

RETAINING WALL CONSTRUCTION RECORD

Hillcrest Shores, phase 3, Rockwall, Texas

Gentlemen:

At the request of Mr. Joe London of Western Plains Resources, this office provided engineering services for the retaining wall construction at the above captioned site. The scope of the services consisted of review of available design documents, preparation of gravity wall details dated September 4, 2002, slope stability analysis and preparation of structural design details for Block 'B', Lots 4 through 7, dated revised October 31, 2003, consultation during construction and preparation of three supplemental details and two letters (attached herewith), intermittent observation of the wall construction, and full time observation of drilled pier installation. Seven site visits were made between January 31 and April 23, 2003. Thirty site visits were made between October 20, 2003, and January 26, 2004.

These services were performed in accordance with generally accepted engineering practice. No other warranty or guarantee, either express or implied, is provided. Observations were made only to form a general opinion regarding the construction.

Documents reviewed include:

Grading Plan, by Dowdey, Anderson, and Associates, Inc. dated September 2001; Geotechnical Data Report, Proposed Retaining Wall, by Fugro-South, Inc., dated February 28, 2003;

Additional Geotechnical Data Report, Proposed Retaining Wall, by Fugro-South, Inc., dated July 25, 2003;

Revisions to the wall schedule were made for gravity walls at three locations. The Parkview Drive wall above the pond was moved to 20 feet beyond the back of curb. No surcharge from the street is now expected; the wall schedule in the attached letter dated December 15, 2003 was superceded. The pond slope exceeds the maximum allowed by the original wall detail so the wall schedule was revised from 2,000 psf to 1,500 psf allowable bearing. See the schedule in the attached letter dated revised January 12, 2004. A footing drain (Detail 3, Sheet 1) was installed at the low point. The Lake Forest Drive creek culvert head walls at Lake Glen Circle were also built for 1,500 psf allowable bearing.

Revisions were made to the structural wall at Block 'B', Lots 3 through 7, as follows: 1) A new detail was provided for footing dowels and the stone walls were built atop the footings in accordance with the original gravity wall schedule. 2) Errors were discovered in the field survey on Lot 5 after pier installation. The staked bottom of wall elevations did not align properly. The wall elevations were revised to fit and two new details were provided.

Based on the services summarized herein, I conclude that the walls are constructed in substantial accordance with the intended design and should perform satisfactorily for the anticipated loads and service conditions. The wall designs satisfy requirements of Section 1611.6 of the 1997 Uniform Building Code and Section 1806 of the 2003 International Building Code. I trust this provides you with the information required at this time. Please call if you have any questions or if I can be of further service.

Respectfully submitted,

Attachments:

Letters dated December 15, 2003 and January 12, 2004, Drilled Pier Log and Revised Pier Elevations chart, Revision details 1 and 2 dated December 7, 2003, Footing Dowel detail dated December 4, 2003, Grout inspection and Compression Test reports (6), Concrete inspection and Compression Test reports (4).

CC:

Eddie Collins / Rockwall Shores, Ltd. City of Rockwall / Engineering Dept.

Dowdey-Anderson

JCE 875

JORDAN Consulting Engineers, Inc.

December 15, 2003

Joe London Western Plains Resources P.O. Box 457 Frisco, Texas 75034

RE: SURCHARGE RETAINING WALL SCHEDULE

Hillside Shores, phase III, Rockwall, Texas

Gentlemen:

Per the request of Joe London of Western Plains Resources, I have evaluated three gravity retaining wall locations at the two creek culvert crossings on Lake Forest Drive and the pond wall location on Park View Drive. The scope of work consisted of site visits, analysis, and preparation of additional Retaining Wall Schedules.

For Park View Drive, the following Surcharge schedule should be used. Use this schedule whenever the road is located 10+/- feet from planned retaining walls. For walls 5.0 feet or less in retained height, use the existing wall schedule. Portions of the planned walls will be on fill. As discussed, the wall is to be deepened below any un-compacted or loose fill or the fill should be removed and replaced as compacted fill with 95 percent compaction.

RETAINING	WALL SO	CHEDULE	– ROAD SU	JRCHARGI	E
HEIGHT (FT)	6	7	8	9	10
BASE WIDTH (IN)	36	42	54	60	72
DEPTH (IN)	8	12	12	12	12

Probing of the creek bottoms revealed about two feet of soft soil at the proposed wing wall of the western culvert and at the north side of the east culvert. At the south side of the east culvert, soft soil was found to a depth of about five feet. All soft sediment or erodible top soil should be removed from under the planned wall location to expose stiff undisturbed clay. The over excavation should be filled with stone masonry or lean mix concrete and the wall established at planned grades and heights. No surcharge is expected. Use the existing wall schedule.

I trust this letter provides you with the information you require at this time. Please call if you have questions or if I can be of further service.

Respectfully submitted.

Gerald J. Jordan, P.E.

2480 Highway 287 North, Suite 105 Mansfield, Texas 76063 GERALD J. JORDAN

phone 817 453-8070 fax 817 453-8071

JORDAN Consulting Engineers, Inc.

January 2, 2004 Revised January 12, 2004

Joe London Western Plains Resources P.O. Box 457 Frisco, Texas 75034

RE: REVISED PARK VIEW DRIVE RETAINING WALL SCHEDULE

Hillside Shores, phase III, Rockwall, Texas

Gentlemen:

Per the request of Joe London, this letter provides a new retaining wall schedule for the retaining wall at the site referenced above. No surcharge is expected for the current wall location. Factors of Safety for sliding and overturning stability should be at least 1.75 and 2.0, respectively.

RETAINING WALL SCHEDULE*									
HEIGHT (FT)	1	2	3	4	5	6	7	8	
BASE WIDTH (IN)	12	12	18	24	30	40	48	60	
DEPTH (IN)	6	6	12	18	18	18	24	24	

^{*} Maximum 1,500 psf bearing; 5:1 (H:V) toe slope; 4:1 top slope

I trust this letter provides you with the information you require at this time. Please call if you have questions or if I can be of further service.

Respectfully submitted,

Gerald J. Jordan, P.E.

Cc: Michael Dowdy / Dowdy-Anderson

phone 817 453-8070 fax 817 453-8071

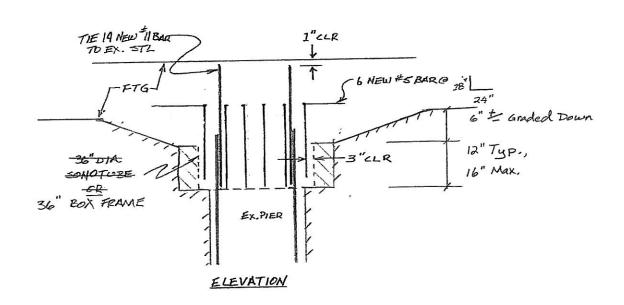
HILLCREST SHORES, PHASE 3 ROCKWALL, TEXAS

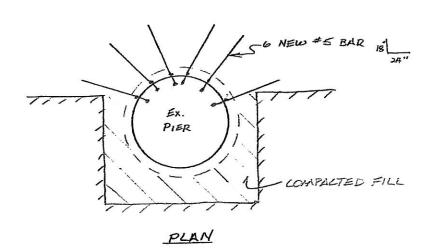
PIER	HUB	CUT/FILL	PLAN	DRILLED	DEPTH TO	SOCKET	PIER	
NO.	ELEV	(-/+)	BOW	DEPTH (ft)		LENGTH (ft)		-
5200	464.7	0.20	464.90	21	8.4	9.9	18.3	
5201	465.63	-0.40	465.23	18.8	7.9	8.3	16.2	
5202	466.13	-0.53	465.60	21.5	8.0	10.7	18.7	
5203	465.9	-0.10	465.80	19.9	6.7	10.7	17.4	
5204	466.36	-0.56	465.80	22	8.0	11.0	19	
5205	465.94	-0.04	465.90	21.6	11.1	8.2	19.3	
5206	465.99	-0.10	465.89	23.1	12.3	8.3	20.6	
5207	466.57	-0.50	466.07	24.4	13.9	8.0	21.9	
5208	466.08	-0.80	465.28	25.7	13.4	8.1	21.5	
5209	465.6	-0.80	464.80	23	11.8	8.9	20.7	
5210	464.47	-0.37	464.10	22	9.8	8.5	18.3	
5211	464.17	-0.05	464.12	23.9	12.7	8.1	20.8	
5212	463.49	-0.3	463.19	22.1	10.7	8.3	19	
5213	463.18	-0.4	462.78	23.2	11.9	8.5	20.4	
5214	462.46	-0.2	462.26	22.6	11.2	8.3	19.5	
5215	461.84	0.2	462.04	24.8	14.0	8.0	22	
5216	461.66	-0.2	461.46	20.5	9.9	8.0	17.9	2000/05 20
5217	461.16	0.4	461.56	21.8	10.9	8.0	18.9	
5218	460.93	-0.2	460.73	22.4	11.2	8.2	19.4	
5219	460.63	-0.1	460.53	24.3	13.4	8.0	21.4	***************************************
5220	460.12	-0.12	460.00	23.2	12.1	8.0	20.1	
5221	459.84	-0.1	459.74	25.8	15.1	8.0	23.1	
5222	459.52	-0.3	459.22	22.3	11.7	8.0	19.7	
5223	459.2	-0.3	458.90	22.4	10.7	8.6	19.3	
5224	459.1	0.2	459.30	20.1	10.4	8.4	18.8	101-001-100
5225	460.06	-0.6	459.46	20	9.8	8.1	17.9	
5226	460.16	-1.3	458.86	18.7	8.3	8.0	16.3	
5227	460.82	-0.1	460.72	20.3	9.6	8.0	17.6	
5228	462.65	-1.1	461.55	16	4.4	8.0	12.4	
5229	463.21	-0.6	462.61	17.3	6.2	8.0	14.2	
5230	462.03	-0.2	461.83	16	5.3	8.0	13.3	
5231	462.72	-0.9	461.82	16	4.8	7.8	12.6	
5232	460.45	1.8	462.25	16.6	7.7	8.1	15.8	
5233	462.05	-2.3	459.75	16	3.2	8.0	11.2	
5234	459.62	2.3	461.92	16.1	8.0	8.0	16	0 = 112. · · · · • • • • · · · · · · · · · · ·
5235	461.18	-0.9	460.28	16.7	5.6	8.0	13.6	
5236	459.93	1.4	461.33	17.8	8.8	8.0	16.8	
5237	460.37	-1.7	458.67	17.6	5.7	8.0	13.7	
5238	459.84	0.6	460.44	18.4	8.5	8.0	16.5	
5239	460.43	-0.6	459.83	17.8	6.4	8.4	14.8	
5240	460.12	0.3	460.42	17.6	7.4	8.0	15.4	
5241	460.25	-0.4	459.85	17.2	5.8	8.0	13.8	
5242	460.32	0.2	460.52	18.5	7.9	8.0	15.9	
5243	460.55	-0.55	460.00	16.8	4.5	9.0	13.5	
5244	460.66	0.44	461.10	17.5	4.6	10.2	14.8	
5245	460.8	0.1	460.90	18.5	6.6	9.5	16.1	
5246	460.74	0.66	461.40	17.1	4.8	10.4	15.2	
5247	461.6	1.34	462.94	16.5	6.9	8.0	14.9	
5248	460.69	0.11	460.80	14.6	4.2	8.1	12.3	

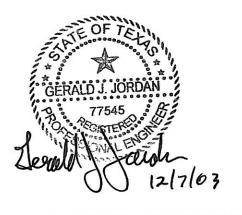
HILLCREST SHORES, PHASE 3 ROCKWALL, TEXAS

					Control of the Contro			
PIER	HUB	CUT/FILL	PLAN	DRILLED	DEPTH TO	SOCKET	PIER	
NO.	ELEV	(-/+)	BOW	DEPTH (ft)	ROCK (ft)	LENGTH (ft)	LENGTH (ft)	
5249	460.74	-0.1	460.64	15.7	5.2	8.0	13.2	
5250	460.25	0.55	460.80	14.1	3.8	8.1	11.9	
5251	459.51	0.7	460.21	15.6	5.5	8.4	13.9	
5252	460.11	0.6	460.71	15.6	4.7	8.4	13.1	
5253	460.22	0.1	460.32	16.8	5.6	8.8	14.4	
5254	459.79	0.6	460.39	17.8	7.1	8.4	15.5	
5255	459.7	0.2	459.90	20.2	7.1	10.4	17.5	
5256	459.6	-1	458.60	19.6	7.4	8.2	15.6	
5257	457.86	-0.3	457.56	20.7	9.1	9.0	18.1	

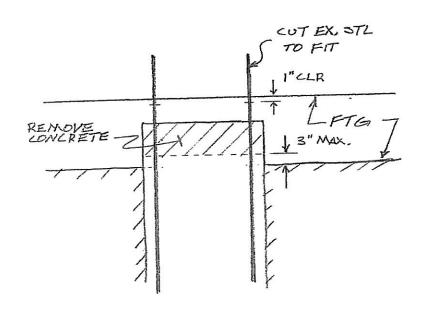
HILLCREST SHORES, 3





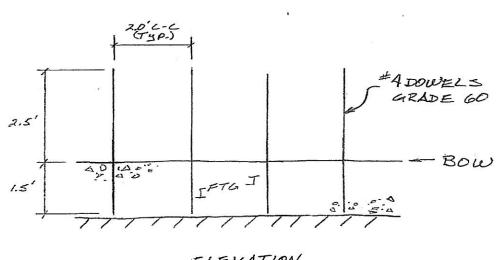


JORDAN CONSULTING ENGINEERS 2400 HOORINGY 207 HOWEN, SUFER TOS MAINTENER, TRANSPORTOR 817-453-46070							
REVIS HILLC	OION, PIE REST SH	RS #33,3: HORES, 3	5,37,39 ROCKWALL	,41 -,7X			
DRAWN BY	SOME	DATE	PROJ. NO.	SHEET NO			

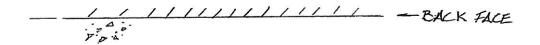


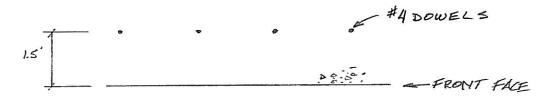


¹ CE	2010-00-00-00-00-00-00-00-00-00-00-00-00-	CONSULTING HOUSELL TEXAS TO ST7-53-500	SUITE 105. 78053	NEERS
RE HILL	EVISION, CREST SI	PIERS.# HORES,3	13293 ROCKW2	6 [LL,7X_
DRUMN AY	SOME	12/7/03	PROJ. NO. 875	SHEET NO.



ELEVATION

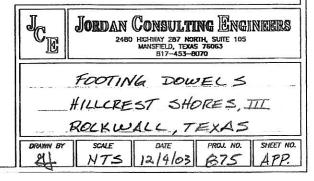




PLAN

NOTE: FTG STEEL NOT SHOWN. SEE SHT 1 OF 2





FEB-12-U4 14:11

ALLIANCE GEOTECHNICAL GROUP GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINEERING AND TESTING

10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

GROUT INSPECTION AND COMPRESSION TEST REPORT

CLIENT:

Western Plains

PROJECT:

Miscellaneous Grout Testing

Hillcrest Shores - Phase 3

FRUM-RUUBIAII I AVIIIGI

AGG REPORT #: C02-0708-013

REPORT DATE: 4/14/03

DISTRIBUTION:

Joe London - Western Plains

	V					P	ROJE	CT DATA	
	SPECIF	ICATIONS			9	Placement Date		3/15/03	
Strength	ı (psi): _	2000			1.0	Sampled By:	-	Tom Pennell	
Slump (i		2-4				Weather:			
Air Conf	tent (%):	12 - 16				Supplier/Mix:			
Concret	te Temp (°F):	95 max				Оцррненны			
			F	FIELD DATA SET Time Batched:		Time Sample			
Ticket#		4.00		Air Content.	16.6	Unit Weight:			
Slump (60	Ambi	Ambient Temp. (°F): 60			Yardage (c.y.)		
Conc. T	remp. (°F):	Lilleract Sho	res - Phase	3					
		Sampled By	Tom Pennel	with Rodman	Paving				
Remark	ks:	Sampled by	TOTAL CALL						
				THE PATACE	T #				
			,	FIELD DATA SE		Time Samp	ed:		
Ticket#:			Time Batched:						
Slump (in.):				Air Content.		Unit Wei			
	Temp. (°F):		Amb	ient Temp. (°F):					
Placen	nent Location:								
Remar	ks:								
			CONCR	ETE COMPRES	SION TEST RE	SULTS			
		CYL	INDERS MOLDE	D AND CURED PER	ASTM C31, TEST	Strength (osi)	FC	Notes	
Set#	Cylinder#	Test Date	Age (Days)	Max. Load (lbs)	Area (Sq. III.)	Suchgar (por)			
1		1				-	_		
1	A	3/19/03	4	15970	7.07	2260	D		
 - 		3/22/03	7	16770	7.07	2370	D		
13	В		28	21400	7.07	3030	D		
	С	4/12/03		18860	7.07	2670	D		
	D	4/12/03	28	10000	1.0.	+			
					 				
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			100 100 100	.J					

(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
(2) FAILURE TYPE A=CONE, B=CONE AND SPLIT, C=CONE AND SHEAR, D=SHEAR, E=COLUMNAR
(3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.

(4) FIELD TESTS ARE PER APPLICABLE ASTM STANDARDS: C138, C143, C172, C231

Note: This report is for the exclusive use of the Client addressed. This report may not be reproduced except in its entirety, without the written consent of AGG_Results apply only to above tests.

15:41

LLIANCE GEOTECHNICAL GROUP GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINEERING AND TESTING

10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT:

Western Plains

DISTRIBUTION:

PROJECT:

Miscellaneous Grout Testing

Rodman Paving - Tom Pennell

Hillcrest Shores - Rockwall, Texas

AGG REPORT #:

C02-0708-025

REPORT DATE:

01/07/04

	SPECI	FICATIONS						ECT DATA
Strengt		4000				Placement Dat	e:	12/09/03
Slump		3 - 5				Sampled By:		Tom Pennell
	rtent (%):	4 - 6				Weather:		
Concre	te Temp (°F):	95 max				Supplier/Mix:		
				FIELD DATA SE	T #1			
Ticket 7	#·	-		Time Batched:	-	Time Samp		-
Slump	5000			Air Content:	_	_ Unit Weight: _		
	Temp. (°F):	9	Ambi	ient Temp. (°F):	-	Yardage (d	c.y.)	
		Wall Footing	gs					
Remar		Contractor N						
				FIELD DATA SE	T #2		2111/12	
Ticket	Ticket #:		Time Batched:			_ Time Samp		
Slump	Slump (in.):				Unit Weight:			
200 E	Conc. Temp. (°F):		Ambient Temp. (°F):			Yardage (c.y.)	
Placen	nent Location:							
Sampl	e Location:							
			CONCR	ETE COMPRES	SION TEST RE	SULTS		
		CYL	INDERS MOLDE	D AND CURED PER	ASTM C31, TEST	ED PER ASTM C3	9	
Set #	Cylinder#	Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
	Α	12/12/03	3	69630	28.27	2460	D	
1	В	12/16/03	7	110470	28.27	3910	D	
 	C	01/06/04	28	138720	28,27	4910	С	
\vdash	D	01/06/04	28	138780	28,27	4910	C	
	<u> </u>	01/00/04		- iuu.				
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(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
(2) FAILURE TYPE A=CONE, B=CONE AND SPLIT, C=CONE AND SHEAR, D=SHEAR, E=COLUMNAR
(3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.
(4) FIELD TESTS ARE PER APPLICABLE ASTM STANDARDS: C138, C143, C172, C231

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816 333 1433

LIANCE GEOTECHNICAL GROUP

GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGIN RING AND TESTING

10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT:

Western Plains

DISTRIBUTION:

PROJECT:

Miscellaneous Grout Testing

Rodman Paving - Tom Pennell

AGG REPORT #:

Hillcrest Shores - Rockwall, Texas C02-0708-026

REPORT DATE:

01/08/04

1.000 (1.00 pt.) 177 Pt. VV.		IOATIONS.				P	ROJE	CT DATA
		ICATIONS				Placement Date	• • • • • • • • • • • • • • • • • • • •	12/11/03
	h (psi):	4000				Sampled By:		Dan Williams
Slump	E 67.2	3-5				Weather:		Clear
	tent (%):	4 - 6				Supplier/Mix:		SS/9375
Concre	te Temp (°F):_	95 max						
				FIELD DATA SE		220		44-25 a.m.
Ticket	# :	123039		Time Batched: _		Time Sampl		11:35 a.m.
Slump		4.00	Air Content: 4.6		Unit Weight:		10 of 10	
Conc .	Temn (°F):	60		ent Temp. (°F):_	54	Yardage (d	:.y.)	10 01 10
Placen	nent Location:	Footing at S	E corner of	Lot 4				
Remar								
				FIELD DATA SE	T #2	200 S.		
Ticket #:			Time Batched:					
Slump (in.):				Air Content:		Unit Weight:		
Conc. Temp. (°F):			Ambient Temp. (°F):			Yardage (:.y.)	
Placement Location:			10					
	e Location:							
				ETE COMPRES	NAN TEST PE	SIII TS		
				D AND CURED PER			9	
		Test Date	Age (Days)	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
Set#	Cylinder#	Test Date	Age (Days)	Max. Coda (125)				
				86030	28.27	3040	С	
	Α	12/14/03	3			3850	C	
1	В	12/18/03	. 7	108810	28.27		-	
	¢	01/08/04	28	137180	28.27	4850	C	
	D	01/08/04	28	137620	28.27	4870	С	
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(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28,27 sq. in., UNLESS NOTED ABOVE.
(2) FAILURE TYPE A=CONE, B=CONE AND SPLIT, C=CONE AND SHEAR, D=SHEAR, E=COLUMNAR
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NCE GEOTECHNICAL GROUP

FEB-12-04

FROM-Rodman Paving, inc 15:59

LIANCE GEOTECHNICAL GROUP

GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINE RING AND TESTING

10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

GROUT INSPECTION AND COMPRESSION TEST REPORT

CLIENT:

Western Plains

DISTRIBUTION:

PROJECT:

Miscellaneous Grout Testing Hillcrest Shores - Rockwall, Texas Rodman Paving - Tom Pennell

AGG REPORT #:

C02-0708-027

REPORT DATE:

01/15/04

	CDECIE	ICATIONS						CT DATA
C4=n====		4000				Placement Date	:	12/16.03
Strength	455 10	3 - 5				Sampled By:		Tom Pennell
Slump (4-6				Veather.		
	tent (%): te Temp (°F):_				5	Supplier/Mix:		
MICHE	te remp(1/_			TI D DATA CE	T #4			
				IELD DATA SE		Time Sample	ed:	2:00 p.m.
Ticket #	# : _	•		Time Batched: _ Air Content: _	52	Unit Weig		
Slump	(in.):	5.75		ent Temp. (°F):	<u> </u>	Yardage (c		-
Conc. 7	Гетр. (°F): .	-	Ambie	ent remp. (r)		_		2.40
Placem	nent Location:	Footing #3 -	Second Iru	CK				
Remar	ks:	Contractor M		The second secon				
				FIELD DATA SE				
Ticket:	Ticket #:		Time Batched:			Time Sampl		
Slump				Air Content: _		Unit Weight:		
		rm.): emp. (°F): Yardage (c.y.)						
Placement Location:								
	e Location:							
				T COMPRESSIO	NI TEST DESI	IL TS		
			GROU	1 COMPRESSIO	ACTU CT TEST	ED PER ASTM C39		
			NDERS MOLDE	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	ECI	
Set#	Cylinder #	Test Date					ru	Notes
			Age (Days)	Max. Load (lbs)	Alca (sq. iii.)		-	Notes
l								Notes
	Α	12/19/03	3	64340	28.27	2280	D	Notes
. 1					28.27 28.27	2280 3410	D D	Notes
- 1	В	12/19/03 12/23/03	3	64340	28.27	2280 3410 4660	D D	Notes
· 1	B C	12/19/03 12/23/03 01/13/04	3 7 28	64340 96270	28.27 28.27	2280 3410	D D	Notes
-1	В	12/19/03 12/23/03	3 7	64340 96270 131830	28.27 28.27 28.27	2280 3410 4660	D D	Notes
1	B C	12/19/03 12/23/03 01/13/04	3 7 28	64340 96270 131830	28.27 28.27 28.27	2280 3410 4660	D D	Notes
1	B C	12/19/03 12/23/03 01/13/04	3 7 28	64340 96270 131830	28.27 28.27 28.27	2280 3410 4660	D D	Notes
. 1	B C	12/19/03 12/23/03 01/13/04	3 7 28	64340 96270 131830	28.27 28.27 28.27	2280 3410 4660	D D	Notes
1	B C	12/19/03 12/23/03 01/13/04	3 7 28	64340 96270 131830	28.27 28.27 28.27	2280 3410 4660	D D	Notes
-1	B C	12/19/03 12/23/03 01/13/04	3 7 28	64340 96270 131830	28.27 28.27 28.27	2280 3410 4660	D D	Notes
1	B C	12/19/03 12/23/03 01/13/04	3 7 28	64340 96270 131830	28.27 28.27 28.27	2280 3410 4660	D D	Notes

(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. In., UNLESS NOTED ABOVE.
(2) FAILURE TYPE A=CONE, B=CONE AND SPLIT, C=CONE AND SHEAR, D=SHEAR, E=COLUMNAR
(3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.
(4) FIELD TESTS ARE PER APPLICABLE ASTM STANDARDS: C138, C143, C172, C231

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LIANCE GEOTECHNICAL GROUP GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINEERING AND TESTING

10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT:

Western Plains

DISTRIBUTION:

Miscellaneous Grout Testing

PROJECT:

Hillcrest Shores - Rockwall, Texas

Rodman Paving - Tom Pennell

AGG REPORT #:

C02-0708-028

REPORT DATE:

Strength (psi):

Air Content (%):

Concrete Temp (°F):

Slump (in.):

1/20/04

 SPECIFICATIONS

4000 3 - 5 4-6

95 max

PROJECT DATA 12/19/03 Placement Date: Tom Pennell

Sampled By: Weather:

Supplier/Mix:

FIELD DATA SET #1

Ticket #: 4.25 Slump (in.): Conc. Temp. (°F):

Time Batched: 4.8 Air Content: Ambient Temp. (°F):

Time Sampled: Unit Weight: Yardage (c.y.)

Placement Location: Last Footing Pour

Remarks:

Ticket #:

Slump (in.):

Contractor Made Cylinders

FIELD DATA SET #2

Time Sampled: Time Batched: Unit Weight: Air Content: Yardage (c.y.) Ambient Temp. (°F):

Conc. Temp. (°F): Placement Location:

Sample Location:

CONCRETE COMPRESSION TEST RESULTS

CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39 Set # Cylinder # Test Date Age (Days) Max. Load (lbs) Area (sq. in.) Strength (psi) FC Notes

Set#	Cynnuer #	1691 Date	71gc (2 w) 57				1 1	
						1050	+	
	Α	12/30/03	11	58480	12.57	4650	<u>C</u>	4 O College
1	В	12/30/03	11	57790	12.57	4600	D	4 x 8 Cylinders
 	C	01/16/04	28	74020	12.57	5890	C	
	D	01/16/04	28	65410	12.57	5200	D	
		- Control						
			1				1	
							-	
\vdash							-	
-								4
								4
						1		

(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
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GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINEERING AND TESTING

10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

GROUT INSPECTION AND COMPRESSION TEST REPORT

CLIENT:

Western Plains

PROJECT:

Miscellaneous Grout Testing

Hillcrest Shores - Phase 3

AGG REPORT #: C04-0107-002

REPORT DATE: 2/6/04

DISTRIBUTION:

Joe London - Western Plains Tom Pennell - Rodman Paving

PROJECT	DATA
	4

			1 1/00=0	
Strength (psi): Slump (in.): Air Content (%):	2000 2 - 4 12 - 16		Placement Date: Sampled By: Weather: Supplier/Mix:	1/7/04 Tom Pennell
Concrete Temp (°F): Ticket #: Slump (in.): Conc. Temp. (°F): Placement Location: Remarks:	3.50	FIELD DATA SET #1 Time Batched: Air Content: 13.5 Ambient Temp. (°F): France Next to Treeline on Right Signs Pennell with Rodman Paving	Time Sampled: Unit Weight: Yardage (c.y.) de by Alley.	-
Ticket #: Slump (in.): Conc. Temp. (°F): Placement Location		FIELD DATA SET # Time Batched: Air Content: Ambient Temp. (°F):	Time Sampled; Unit Weight: Yardage (c.y.)	
Remarks:				

CONCRETE COMPRESSION TEST RESULTS CYLINDERS MOLDED AND CURED PER ASTM C31, TESTED PER ASTM C39 Age (Days) Max. Load (lbs) Area (sq. in.) Strength (psi) FC Notes **Test Date** Cylinder# Set# D Height 4.7 2300 7.07 16270 8 1/15/04 L/D= 1.57 A D 2930* 7.07 21420 14 Correction Factor: 0.966 1/21/04 B D 3830 1 7.07 27060 28 2/4/04 C

(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 Sq. In., UNLESS NOTED ABOVE.
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(3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.

(4) FIELD TESTS ARE PER APPLICABLE ASTM STANDARDS: C138, C143, C172, C231

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10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT:

Western Plains

PROJECT:

Miscellaneous Concrete Testing Hillcrest Shores - Rockwall, Texas

C02-0708-017 AGG REPORT #:

12/3/03

DISTRIBUTION:

Rodman Paving - Tom Pennell

12/3/03		BBO JECT	DATA
4200 3 to 5 3 to 5		Placement Date: Sampled By: Weather: Supplier/Mix:	11/5/03 Tom Pennell Cool Hanson
7 +	FIELD DATA SET #1 Time Batched: Air Content: Ambient Temp. (°F): for Wall	Time Sampled: Unit Weight: Yardage (c.y.)	2:45 p.m. 9+
Comractor was	FIELD DATA SET #2 Time Batched: Air Content: Ambient Temp. (°F):	Time Sampled: Unit Weight: Yardage (c.y.)	
	200 3 to 5 3 to 5 7 + On: First Day Piers to Contractor Made	### Contractor Made - Engineer was present Contractor Made - Engineer Wall	PROJECT 4200

	ocation:		CONCO	ETE COMPRESS	ION TEST RE	SULTS		
					TEST		9	
		CYLI	NDERS MOLDE	D AND CURED PER	Area (sq. in)	Strength (psi)	FC	Notes
<i>w</i> 0	ylinder#	Test Date	Age (Days)	D AND CURED PER Max. Load (lbs)	Alea (Sq. III.)	W		
# C	yilluel #						-	
				60250	28.27	2130	C	
	Α	11/08/2003	3		28.27	3520	D	
\top	В	11/12/2003	7	99570		4970	C	
		12/03/2003		140440	28.27		1	
	<u>C</u>			137650	28.27	4870	C	ļ
	D	12/03/2003	28	101000				
-							T	
+							┪	
							4-	-
+						1	7	
							+	1
			+				_	4
					1		1	
-+				n. UNILESS NOTED				-

(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 Sq. In., UNLESS NOTED ABOVE.
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10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT:

Western Plains

PROJECT:

Miscellaneous Concrete Testing

Hillcrest Shores - Rockwall, Texas

AGG REPORT #:

C02-0708-018

REPORT DATE:

12/11/03

- carpida	ITION
DISTRIBI	

Rodman Paving - Tom Pennell

REPORT	DAIE:	21 (1700			· ·	PR	OJE	CT DATA
	CRECIE	ICATIONS			D	acement Date:		11/12/03
		4200			9.500	ampled By:		Tom Pennell
Strength		5 max				leather:	\$.	Cool
Slump (in		3 to 5				upplier/Mix:		Hanson
ur Conte	ent (%):				3	appacation		
Concrete	e Jemp (F).			IELD DATA SET	#1			0.45 - 0
				Time Batched:		Time Sample	ed:	2:45 p.m.
licket#:				Air Content:	4.9	Unit Weig	ht	<u> </u>
Slump (i		5.50		ent Temp. (°F):_		Yardage (c.	y.)	
			Ambii	eut teurh. (1 1-				
Discome	ent Location:	Second Day	Wall Piers	~				
Remark	6.	Contractor M						
Collian	··			FIELD DATA SE	T #2	The Comple	orl·	
				Time Batched:		Unit Weig		
Ticket#				Air Content		Our Mei	yıı.	
Slump ((in.):		Amb	ient Temp. (°F):		Yaroage (c	-y-/	
Conc. T	remp. (°F):							
		;						
Sample	Location:					NIII TC		
			CONCR	ETE COMPRESS	SION TEST RE	POF19		
1		AVI			A TEST	EU NEK YOUN OA	FCI	Notes
		Test Date	Age (Days)	Max. Load (lbs)	Area (sq. In.)	Strength (par)		
Set#	Cylinder#	(BSL Date					-	
				77550	28.27	2740	D	
	Α	11/15/03	3		28.27	3870	D	
1	В	11/19/03	7	109390	28.27	4970	D	
 '-	C	12/10/03	28	140570		5060	D	
		12/10/03	28	143080	28.27	3000	۲-	
	D	12/10/03	 			<u> </u>	+-	
			-				1_	1
						1		1
						+	\top	1
			1				+	1
	1		Charles and the control of the contr			1	1	E .

(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 SQ. III., UNLESS NOTED ABOVE.
(2) FAILURE TYPE A=CONE, B=CONE AND SPLIT, C=CONE AND SHEAR, D=SHEAR, E=COLUMNAR
(3) TEST RESULTS COMPLY WITH PROJECT SPECIFICATIONS UNLESS INDICATED IN NOTES.
(4) FIELD TESTS ARE DEP ABBLICABLE ASTAINDARDS. C139, C149, C179, C224

(4) FIELD TESTS ARE PER APPLICABLE ASTM STANDARDS: G138, C143, C172, G231

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FROM-Rodman Paving, Inc.

ALLIANCE GEOTECHNICAL GROUP GEOTECHNICAL AND CONSTRUCTION MATERIALS ENGINEERING AND TESTING

10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

CONCRETE INSPECTION AND COMPRESSION TEST REPORT DISTRIBUTION:

CLIENT:

Wastern Plains

DIL 000

Miscellaneous Concrete Testing

Rodman Paving - Tom Pennell

PROJECT:

Hillcrest Shores - Rockwall, Texas

AGG REPORT#:

C02-0708-019

REPORT DATE:

12/11/03

REPORT	DAIE:	21 (1)00				pp	OJEC	CT DATA
		TOTAL				acement Date:		11/13/03
		ICATIONS					_	Gerald
trength	(psl): _	4200				Sampled By: Weather:		Cool
Slump (in	1.): _	5 max					-	Hanson
Air Conte	ent (%): _	3 to 5			S	upplier/Mix:	-	
Concrete	Temp (°F):				-114		740-35	
				ELD DATA SET		Time Sample	d:	
1000 to 1000 to 1000		_		Time Batched:		New times I	ht	•
Ticket #:				Air Content:		Yardage (c.	v.)	-
Slump (i	u.):		Ambie	ent Temp. (°F):	- _	103- (
Conc. To	emp. (°F):	Third Day Wa	III Piers					
		Contractor M	ade					
Remark	s:	Contractor in		IELD DATA SE	T #2			
			1	Time Batched:	•			
Ticket#	£-			I IME Balcheot		Unit Weig		
• • • • • • • • • • • • • • • • • • • •			W-V 020	AIF CONTENT		Yardage (d	.y.)	
Slump ((iii.). remp. (°F):		Ambi	ent Temp. (°F):				
Conc.	ent location:							
Placem	e Location:							
Sample	E LUCAUON.			ETE COMPRESS	SION TEST RES	SULTS		
							9	
1		CYL	INDERS MOLDE	D AND CURED PER Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes
Set#	Cylinder#	Test Date	Age (Days)	Max. Load (185)				
Setm	<u> </u>	1			00.07	2810	D	
		11/17/03	4	79420	28,27		D	
	A	A. Marian	7	105970	28.27	3750	_	
1	В	11/20/03		139900	28.27	4950	C	
	С	12/11/03	28		28.27	4850	C	
1	D	12/11/03	28	137080	20.25			
11	<u> </u>	-				-	1	
							+	1
			+				-	1
							_	1
1	+				+			
1		1				-	1	1
				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			+	1
			+					J
			1	1				

(1) NORMAL CYLINDER SIZE 6" X 12", AREA 28.27 sq. In., UNLESS NOTED ABOVE.
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15:41 FEB-12-04

FROM-Rodman Paving, and.

HANGE GEUTECHNICAL GROUP

GEOTECHNICAL AND CUNSTRUCTION MATERIALS ENGINE ING AND TESTING

10610 Newkirk Street, Suite 202, Dallas, Texas 75220 Phone: 972-444-8889 Fax: 972-444-8893

CONCRETE INSPECTION AND COMPRESSION TEST REPORT

CLIENT:

Rodman Paving

DISTRIBUTION: Rodman Paving - Tom Pennell

PROJECT:

Miscellaneous Concrete Testing

Hillcrest Shores - Rockwall, Texas

AGG REPORT #: REPORT DATE:

C02-0708-023

12/23/03

						PE	ROJE	CT DATA	
	SPECIF	ICATIONS			F	Placement Date:		11/24/03	
Strength (psi): 4200				Sampled By:		Tom Pennell			
Slump (i						Weather:		•	
Air Cont	- (.4).	3 to 5				Supplier/Mix:		Hanson	
Concret	e Temp (°F):_								
			F	IELD DATA SET	T #1	-	•	2-20 p.m	
1		r <u>e</u>		Time Batched:		Time Sample		2:30 p.m.	
Ticket #	_	4.50		Air Content:	4.4	Unit Weig	100	-	
Slump (-	Ambi	ent Temp. (°F):		Yardage (c.	.y.)		
Conc. I	emp. (°F):	Fourth Day \							
		Contractor N	lade						
Remark	(5:	Contiductor		FIELD DATA SE	T #2				
						Time Samp	led:		
Ticket #	# :			Time Batched:			—		
Slump (in.):			Air Content:			Yardage (d			
Conc. Temp. (°F):			Ambient Temp. (17-				•		
Placem	nent Location:								
	e Location:								
			CONCE	ETE COMPRESS	ION TEST RE	SULTS			
				SURED DED	ACTIN C31 TEST	ED PER ASTM C3	9		
			NDERS MOLDE	Max. Load (lbs)	Area (sq. in.)	Strength (psi)	FC	Notes	
Set#	Cylinder#	Test Date	Age (Days)	Max. Loud (120)					
				101000	20.27	4310	D		
	A	12/1/03	7	121960	28.27		D		
1	В	12/22/03	28	157820	28.27	5580			
 	C	12/22/03	28	156970	28.27	5550	C		
	<u> </u>	IZIZZIOO	1						
						1			
							T		
	11070					+			
							+	1	
-			1				-	1	
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			+	+					

(1) NORMAL CYUNDER SIZE 6" X 12", AREA 28.27 sq. in., UNLESS NOTED ABOVE.
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