

CITY OF SACRAMENTO

1231 I Street, Sacramento, CA 95814

Permit No: 0311543

Insp Area: 1
Thos Bros: 297 G5

Site Address: 3161 L ST SAC
Parcel No: 007-0123-042

Sub-Type: NCOM
Housing (Y/N): N

CONTRACTOR
DPR
1451 RIVER PARK DR SUITE 210
SACTO, CA. 95815

OWNER
3161 L STREEL LLC
3321 POWER INN RD #100
SACRAMENTO CA 95826

ARCHITECT
BOULDER ASSOCIATES
4747 TABLE MESA DR #202
BOULDER CO 80305

Nature of Work: NEW MEDICAL OFFICE BUILDING WITH PARKING GARAGE

CONSTRUCTION LENDING AGENCY : I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class **B** License Number **599846** Date **1/15/04** Contractor Signature *[Signature]*

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. _____ B & PC for this reason: _____

Date _____ Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date **1/15/04** Applicant/Agent Signature *[Signature]*

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:
I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are _____

Carrier **LUMBERMENS MUTUAL CASUALTY CO** Policy Number **5BA149380** Exp Date **02/01/2004**

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date **1/15/04** Applicant Signature *[Signature]*

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

YOUNGDAHL CONSULTING GROUP, INC.

Geotechnical • Geoscience • Materials Testing • Storm Water Compliance

1234 Glenhaven Court, El Dorado Hills, CA 95762
Ph: 916.933.0633 Fax: 916.933.6482

502 Giuseppe Court, Suite 2, Roseville, CA 95678
Ph: 916.773.7633 Fax: 916.773.7833
E-mail: mail@youngdahl.net

Sacramento County Building Department
BUILDING PERMIT No. 0311543

Project No. E-03528
14 December 2004

DPR Construction, Inc.
1451 River Park Drive, Suite 210
Sacramento, CA 95818

Attention: Mr. John Ronnow

Subject: **L-STREET IMAGING CENTER**
32nd & L Streets, Sacramento, Sacramento County, California
SUMMARY OF SPECIAL INSPECTION AND MATERIALS TESTING SERVICES

- Reference(s)
1. Executed Contract for L Street Imaging, prepared by Youngdahl Consulting Group, Inc., dated 31 October 2003 (Project No. E-03528).
 2. Concrete Mix Design Review for L-Street Imaging Center, prepared by Youngdahl Consulting Group, Inc., dated 23 December 2003 (Project No. 03528).
 3. Proposed Alternative for Shotcrete Testing for L-Street Imaging Center, prepared by Youngdahl Consulting Group, Inc., dated 13 February 2004 (Project No. 03528).
 4. Laboratory Test Results for Shotcrete Cores for L-Street Imaging Center, prepared by Youngdahl Consulting Group, Inc., dated 25 February 2004 (Project No. 03528).
 5. Laboratory Test Results for Sprayed Fire-Resistive Material for L-Street Imaging Center, prepared by Youngdahl Consulting Group, Inc., dated 15 June 2004 (Project No. 03528).
 6. Laboratory Test Results for Sprayed Fire-Resistive Material for L-Street Imaging Center, prepared by Youngdahl Consulting Group, Inc., dated 12 July 2004 (Project No. 03528).

As requested, Youngdahl Consulting Group, Inc. has provided special inspection and materials testing services between 26 January 2004 and 13 December 2004 for the above referenced project. Our scope of services comprised the following tasks which are summarized below and in the attached Appendix A.

- ✓ Reinforcing Steel Placement
- ✓ Concrete and Shotcrete Placement Observation and Field Testing
- ✓ Compressive Strength Testing of Concrete and Shotcrete Samples
- ✓ High Strength Bolt Inspection
- ✓ Proof Loading of Epoxied Anchors
- ✓ Structural Steel and Welding Observation: Field and Shop Testing
- ✓ Ultra-Sonic Testing of Complete Penetration Groove Welds
- ✓ Fireproofing Observations and Density Testing

Our construction observations and test results are summarized below for the above inspection items:

1.0 Concrete and Shotcrete Placement and Reinforcing Steel Placement Observation

Prior to concrete placement a mix design review was performed to verify compliance with the project documents. Following approval we observed steel reinforcement and concrete placement for the footings, caissons, grade beams, slab-on-grade floor, elevated decks, roof deck, ramps and

equipment pads. The steel reinforcement placement was observed to be in accordance to the project plans and specifications and approved modifications thereof. At various locations the installation of drilled epoxied anchors were observed and load tested. At all locations installation and load tests were found to be acceptable per the approved plans.

During concrete placement we measured concrete consistency, and temperature. Compressive strength testing has shown that, where tested, concrete materials tested met the required compressive strength (see Appendix A, Summary of Concrete and Shotcrete Compressive & Core Test Results).

Prior to shotcrete wall construction a test panel was constructed to evaluate the acceptability of placement methods. Following test panel construction eight shotcrete cores were obtained. Visual observation and compressive strength testing indicated that proposed placement methods were acceptable. Steel reinforcement and shotcrete placement was also observed during shotcrete wall panel construction. A special inspector from Youngdahl was present on a continuous basis during shotcrete placement. We observed the shotcreting process and observed mixing and placement procedures, as well as bonding of the shotcrete during application. For each 50 cubic yards, or for each work day, of shotcrete placed a reinforced shotcrete panel was constructed. All compressive strength test results and cores which contained reinforcement indicated that shotcrete application and reinforcement bonding was above the required specification. Laboratory test results of the shotcrete cores are contained in Reference 4 and included in this letter, Appendix A, as Tables I and II.

2.0 High Strength Bolt Inspection

Our inspector performed high strength bolt torque testing at basement, first floor, second floor and roof level connections. Our tests, inspections, and records of observations indicate that the bolting was performed in accordance with the project plans and specifications.

3.0 Structural Steel and Welding

Prior to the start of work we reviewed the fabricator's welding procedures and welder qualifications at Metalworks, located in Oroville Ca. We observed joint fit-up of materials and maintained a written record indicating member ID date and acceptance. Mill certifications were collected during structural inspections at the site. Our AWS inspector performed both periodic shop and field observations of the welded connection on tube steel columns, diagonal brace frames, moment connections and beam to column connections. In addition, continuous inspection and ultra-sonic testing of complete penetration groove welds was performed. Our tests, inspections, and records of observations indicate that the structural steel welding and ultra-sonic testing was performed in accordance with AWS standards.

4.0 Fireproofing Observations and Field Testing

Our representative performed thickness testing of sprayed fire-resistive materials. In addition, field samples of the fireproofing materials were obtained from the first floor B Line 5 to 6; the first floor framing, secondary beam 2.3, Line 6 to 6.5; and the second floor framing, secondary beam 2, Line D to F for laboratory density testing. Thickness and density testing has shown that, where tested, the fireproofing materials met the required thickness and dry density after re-application procedures (see References 5 and 6):

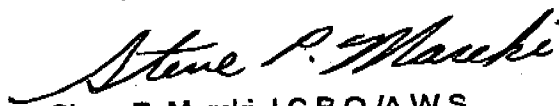
SUMMARY

Based upon our laboratory testing and field observations during special inspection for the subject project, it is our opinion that the above referenced tasks, to the best of our knowledge, have been completed in general conformance with the approved project plans and specifications. *No guarantee or warranty of the contractor's work is made, expressed, or implied. Conditions and limitations of the executed contract (Reference 1) shall apply to work performed.*

The verb, "to inspect", from which the words "inspection" and "inspector" are derived, as used by Youngdahl Consulting Group, Inc., means observation and monitoring, and does not mean the right to control the contractor's work. When authorized by the client, the work will be stopped if it is perceived that the work is not proceeding according to the plans and specifications.

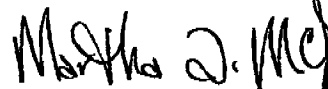
We trust that this letter provides you with the needed information. If you have any questions or desire additional information, please do not hesitate to call.

Very truly yours,
Youngdahl Consulting Group, Inc.



Steve P. Marcki, I.C.B.O./A.W.S.
Construction Inspection Manager

Reviewed by:



Martha A. McDonnell, P.
Associate Engineer



Distribution: 4 Copies: Client

Attachment: Appendix A - Summary of Laboratory Compression Test Results

APPENDIX A

SUMMARY OF

CONCRETE COMPRESSIVE TEST RESULTS

&

SHOTCRETE COMPRESSIVE & CORE TEST RESULTS

Tuesday, December 14, 2004

Query and Report Results

No.	Project Number	Cast Date	Mix #	SFS (psi)	Ave. Cylinder Age (Days)	Compression Strength	% Specified Required Strength	No.	Project Number	Cast Date	Mix #	SFS (psi)	Ave. Cylinder Age (Days)	Compression Strength	% Specified Required Strength
1	03528	7/13/04	08A5042C	3000	7	3130	104	9	03528	8/14/04	L5A6041G	3000	7	6348	1880
					28	7073	145						28	6349	3310
					28	7074	151						28	6350	3510
<u>Location</u>								<u>Location</u>							
SOB, First level, Grid Line C.5/1.5								2nd Floor Slab Deck, Grid Line 2.2/C.3							
2	03528	6/28/04	08A6041A	3000	7	6794	122	10	03528	6/14/04	F5A6041G	3000	7	6345	2090
					28	6786	170						28	6346	3160
					28	6788	167						28	6347	3050
<u>Location</u>								<u>Location</u>							
First Floor Stern Wall, Grid Line 1 Between 0 & C								2nd Floor Ramp, Grid Line 1.5/B							
3	03528	6/24/04	08A6041A	3000	7	6764	70	11	03528	6/14/04	L5A6041G	3000	7	6351	1660
					28	6765	142						28	6352	3020
					28	6766	144						28	6353	3250
<u>Location</u>								<u>Location</u>							
Column Block Outs, Grid Lines C to 6 and 2 to 7								2nd Floor Slab Deck, Grid Line 5.7/C.7							
4	03528	6/23/04	L5A6041G	3000	7	6728	76	12	03528	6/04	L5A6041G	3000	7	6117	2350
					28	6729	120						28	6118	3400
					28	6730	124						28	6119	3650
<u>Location</u>								<u>Location</u>							
Lower Roof Deck Slab, Grid Lines 5/B.3								Lightweight Elevated Metal Deck Slab, 2nd Floor, Grid Lines 1.6 X E							
5	03528	6/23/04	L5A6041G	3000	7	6725	75	13	03528	6/04	L5A6041G	3000	7	6120	2390
					28	6726	131						28	6121	3450
					28	6727	134						28	6122	3690
<u>Location</u>								<u>Location</u>							
Lower Roof Deck Slab, Grid Lines 2/B.3								Lightweight Elevated Metal Deck Slab, 2nd Floor, D-G Grid Lines 5.2 @ F							
6	03528	6/18/04	L5A6041G	3000	7	6593	75	14	03528	6/14/04	L5A6041G	3000	7	5903	2510
					28	6584	128						28	5904	3640
					28	6585	130						28	5905	3510
<u>Location</u>								<u>Location</u>							
Lower Roof Deck Slab, Grid Line E/1.5								Elevated Slab Deck, 1st Floor, 2.2 X C.5							
7	03528	6/18/04	L5A6041G	3000	7	6588	101	15	03528	6/14/04	L5A6041G	3000	7	5900	2690
					28	6581	140						28	5901	3850
					28	6582	145						28	5902	4050
<u>Location</u>								<u>Location</u>							
Lower Roof Deck Slab, Grid Line C7/4.9								Elevated Slab Deck, 1st Floor, 2.2 X C.5							
8	03528	6/18/04	L5A6041G	3000	7	6577	109	16	03528	5/27/04	F5A6041G	3000	7	5994	2460
					28	6578	148						28	5995	3620
					28	6579	160						28	5996	3370
<u>Location</u>								<u>Location</u>							
Lower Roof Deck Slab, Grid Line C/1.2								1st Floor, Elevated Slab Deck, Grid Lines E-4.5							

No.	Project Number	Cast Date	Mix #	SRS (psi)	Age, Calendar Days	Compression Strength	% Specified Required Strength
17	03528	5/27/04	00A6542C4	3000	7	3180	106
					28	4120	137
					28	4700	149
<u>Location</u>							
SOG, Grid Lines F-1.5							
18	03528	5/18/04	15A8041G	3000	7	1700	56
					28	2820	98
					56	3270	109
<u>Location</u>							
SOG, Between Grid Line G-7 @ B.5							
19	03528	5/18/04	15A8041G	3000	7	2100	70
					28	3480	116
					28	3600	120
<u>Location</u>							
SOG, 3-B-3, First Floor							
20	03528	5/14/04	00A5041A	3000	7	1810	60
					28	3080	102
					28	3120	104
<u>Location</u>							
Grade Beam, Grid Line D, Between 1 & 2, 1st Floor							
21	03528	5/10/04	02A5041A	3000	7	1400	48
					28	3170	105
					28	3100	103
<u>Location</u>							
Transformer Equipment Pad & Fencing, West Side of P							
22	03528	5/7/04	00A5041A	3000	7	1800	60
					28	3300	110
					28	3410	113
<u>Location</u>							
Shear Beam, 1st Level, Line 1 @ 1D							
23	03528	4/21/04	09A8542C	3000	7	2950	86
					28	4850	151
					28	4940	164
<u>Location</u>							
Lower Level SOG, G to B.6 and B.5 to C							
24	03528	4/8/04	00A6542C	3000	7	3490	115
					28	4910	163
					28	4970	165
<u>Location</u>							
SOG, Grid L @ 3.5							
25	03528	4/7/04	03A0642C	3000	7	3030	102
					28	4550	151
					28	4660	155
<u>Location</u>							
SOG, Grid Line D @ 3.5							
26	03528	3/22/04	7581809	4000	7	3323	101
					28	4860	121
					28	4860	124
<u>Location</u>							
CIP Wall, Grid Line 7 @ B.5							
27	03528	3/15/04	00A5041A	3000	7	2831	98
					28	4100	139
					28	4080	136
<u>Location</u>							
Caissons, Grid B.3 @ Line 1							
28	03528	3/12/04	00A5041A	3000	7	2549	81
					28	3550	128
					28	3730	124
<u>Location</u>							
Caissons @ Grade Level, Grid D1 and @ 19'-5" Deep							
29	03528	3/4/04	7581809	4000	7	2289	76
					28	2900	143
					28	2301	131
<u>Location</u>							
Test Panel, Line 6, D.5 @ 9'							
30	03528	3/20/04	7581809	4000	7	2296	90
					28	2297	122
					28	2299	133
<u>Location</u>							
Test Panel, Grid Line 2 @ C, 5' High							
31	03528	3/1/04	7581809	4000	7	2260	92
					28	2294	149
					28	2295	135
<u>Location</u>							
Test Panel, Grid Line G @ 3.5/1.5 High							
32	03528	2/27/04	7581809	4000	7	2280	96
					28	2281	150
					28	2282	164
<u>Location</u>							
Test Panel, Line 7 @ B.6, 14' High							
33	03528	2/4/04	06A6041A	3000	7	1183	102
					28	1184	154
					28	1185	156
<u>Location</u>							
Cast-in-Place Wall at Elevator Pit, Grid D15							
34	03528	1/30/04	00A5041A	3000	7	1081	79
					28	1092	128
					28	1083	128
<u>Location</u>							
SOG, Elevator Pit							

No.	Project Number	Cast Date	Mix #	SRS (psi)	Age, Cylinder # Days	Comp. Strength	% Specified Required Strength	No.	Project Number	Cast Date	Mix #	SRS (psi)	Age, Cylinder # Days	Comp. Strength	% Specified Required Strength
35	03528	1/29/04	005041A	3000	7 8965 28 9966 28 9967	2740 4480 4620	81 149 154								
<p><u>Location</u> Feeding, Grid Line D.5 at 6.5</p>															
36	03528	1/29/04	00A6041A	3000	7 8815 28 8816 28 8817	2810 4850 4550	83 161 151								
<p><u>Location</u> Feeding @ Grid F/3</p>															
37	03528	1/16/04	A5041A	3000	7 8457 28 8496 28 8459	1800 3650 3750	63 121 125								
<p><u>Location</u> Feeding, Grid Line A at 5.5</p>															
38	03528	1/29/03	58A7520G	3250	7 8531 28 8532 28 8533	3480 5280 4840	107 152 148								
<p><u>Location</u> Grid E & F North Wall, # Above Feeding</p>															
39	03528	1/29/03	A7031G	3250	7 8474 28 8475 28 8476	5060 3810 4760	94 120 148								
<p><u>Location</u> Shotcrete, Bottom Section, South Center</p>															
40	03528	1/12/03	58A7031G	3250	7 8253 28 8254 28 8255	3240 4680 5110	99 144 157								
<p><u>Location</u> Shotcrete, Middle Section, Northwest Corner</p>															
41	03528	1/11/2003	68A7031G	3250	7 7799 28 7800 28 7801	3150 4750 5030	87 145 155								
<p><u>Location</u> Shotcrete Wall, Lines A-D-T, 3/A-B, 7/A-B, 7/E-F, 1st Row</p>															


TABLE 1
**SUMMARY OF LABORATORY TESTING OF PRE-CONSTRUCTION
 SHOTCRETE PANEL (1-26-04)
 (ASTM C 42)**

Specimen Number	1	2	3	4	5	6	7	8
Location								
Date Tested	2/9/04	2/9/04	2/23/04	2/23/04	2/23/04	2/23/04	2/23/04	2/23/04
Age at Testing (days)	14	14	28	28	28	28	28	28
Length of Capped Core (in.)	-	-	-	-	-	-	-	-
Diameter of Core (in.)	-	-	-	-	-	-	-	-
Area (sq.in.)	4.08	3.94	3.88	4.20	4.16	4.14	4.08	4.04
Maximum Load (lbs.)	16502	14215	19955	23096	19628	20483	24077	21047
Strength (psi)	4040	3610	5140	5500	4720	4950	5900	5210
Length/Diameter Ratio	-	-	-	-	-	-	-	-
Length/Diameter Factor	-	-	-	-	-	-	-	-
Type of Fracture	Conical	Conical	Conical	Conical	Conical	Conical	Conical	Conical
Corrected Strength (psi)	4040	3610	5140	5500	4720	4950	5900	5210
Grade ACI 308.3R-50	2	2	1	3	2	2	1	1
Average - 1/5								

 Prepared By: JLC
 Reviewed By: MAM

TABLE 2

**SUMMARY OF LABORATORY GRADING OF PRE-CONSTRUCTION
SHOTCRETE PANEL (1-26-04)
(ACI 506R-90)**

CORE #	GRADE	FEATURES	DIAMETER (Inches)
1	2	Split in half, voids	4
2	2	Voids around rebar	6
3	1	One small void (not around rebar)	4
4	3	Voids, small lamination at top	6
5	2	Voids around some rebar, plus other voids	4
6	2	Small voids around rebar	6
7	1	Small voids	4
8	1	Small voids	6
AVERAGE	1.75		5

Prepared By: JLC
Reviewed By: MAM

CITY OF SACRAMENTO

CERTIFICATE OF OCCUPANCY

For Information Contact (916) 264-5716

Building Address: 3161 L ST Permit No.: 0311543
Building Use: MEDICAL OFFICE BLDG W/ PARKING GARAGE Occupancy: B/S-4
Building Owner: 3161 L ST LLC Construction Type: II-N
Owner Address: SACRAMENTO, CA Sprinkled? Yes No
Portion of Building Occupied: ENTIRE Area: 78,140 Sq. Ft.
Date: 01/21/05 By: (Print) Thomas B. O'Leary Sign RON BEEHLER
INTERIM CHIEF BUILDING OFFICIAL

[Finaled By: PWC, MSK, RH, CP, GRS]

This Certificate, issued pursuant to the requirements of Section 109 of the Uniform Building Code, certifies that at time of issuance the described portion of the building has been inspected for compliance with the Uniform Building Code, as adopted per Title 15 of the Sacramento City Code for the group and division of occupancy and use for which the proposed occupancy is classified. Issuance of this certificate shall not be construed as an approval of a violation of any Codes, or Federal, State and City Laws or Ordinances. Certificates presuming to give authority to such violation shall not be valid. This certificate shall be posted in a conspicuous place on the premises and shall not be removed except by the Chief Building Official. No changes shall be made in the character of occupancy or use without approval of the Chief Building Official.

POST IN A CONSPICUOUS PLACE

YOUNGDAHL

CONSULTING GROUP, INC.

GEOTECHNICAL • ENVIRONMENTAL • MATERIALS TESTING

FACSIMILE TRANSMISSION

Project No.	03528	Date:	January 20, 2005
Project Name:	L Street Imaging		
Company:	DPR Construction, Inc		
Attention:	John Ronnow	Fax No.:	(916)568-3442
Number of pages transmitted (including this cover sheet):		7	
Notes:			
<p>Per your request, I am transmitting a copy of the special inspection letter for the subject project.</p> <p>Should you have any questions or require additional information, please contact our office at your convenience.</p>			

From: Shannon Young

<input checked="" type="checkbox"/>	El Dorado Hills Office: 1234 Glenhaven Court, El Dorado Hills, CA 95762 Ph: 916-933-0633 Fax: 916-933-6482 E-Mail mail@youngdahl.net
<input type="checkbox"/>	Roseville Office: 502 Giuseppe Court, Suite 2, Roseville, CA 95678 Ph: 916-773-7633 Fax: 916-773-7833

YOUNGDAHL CONSULTING GROUP, INC.

Geotechnical • Geoscience • Materials Testing • Storm Water Compliance

1234 Glenhaven Court, El Dorado Hills, CA 95762
Ph 916.933.0633 Fx 916.933.6482

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Ph 916.773.7633 Fx 916.773.7833

E-mail@youngdahl.net

Sacramento County Building Department
BUILDING PERMIT No. 0311543

Project No. E-03528
14 December 2004

DPR Construction, Inc.
1451 River Park Drive, Suite 210
Sacramento, CA 95818

Attention: Mr. John Ronnow

Subject: **L-STREET IMAGING CENTER**
32nd & L Streets, Sacramento, Sacramento County, California
SUMMARY OF SPECIAL INSPECTION AND MATERIALS TESTING SERVICES

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1. Executed Contract for L Street Imaging , prepared by Youngdahl Consulting Group, Inc., dated 31 October 2003 (Project No. E-03528).
 2. Concrete Mix Design Review for L-Street Imaging Center, prepared by Youngdahl Consulting Group, Inc., dated 23 December 2003 (Project No. 03528).
 3. Proposed Alternative for Shotcrete Testing for L-Street Imaging Center, prepared by Youngdahl Consulting Group, Inc., dated 13 February 2004 (Project No. 03528).
 4. Laboratory Test Results for Shotcrete Cores for L-Street Imaging Center, prepared by Youngdahl Consulting Group, Inc., dated 25 February 2004 (Project No. 03528).
 5. Laboratory Test Results for Sprayed Fire-Resistive Material for L-Street Imaging Center, prepared by Youngdahl Consulting Group, Inc., dated 15 June 2004 (Project No. 03528).
 6. Laboratory Test Results for Sprayed Fire-Resistive Material for L-Street Imaging Center, prepared by Youngdahl Consulting Group, Inc., dated 12 July 2004 (Project No. 03528).

As requested, Youngdahl Consulting Group, Inc. has provided special inspection and materials testing services between 26 January 2004 and 13 December 2004 for the above referenced project. Our scope of services comprised the following tasks which are summarized below and in the attached Appendix A.

- ✓ Reinforcing Steel Placement
- ✓ Concrete and Shotcrete Placement Observation and Field Testing
- ✓ Compressive Strength Testing of Concrete and Shotcrete Samples
- ✓ High Strength Bolt Inspection
- ✓ Proof Loading of Epoxied Anchors
- ✓ Structural Steel and Welding Observation: Field and Shop Testing
- ✓ Ultra-Sonic Testing of Complete Penetration Groove Welds
- ✓ Fireproofing Observations and Density Testing

Our construction observations and test results are summarized below for the above inspection items:

1.0 **Concrete and Shotcrete Placement and Reinforcing Steel Placement Observation**

Prior to concrete placement a mix design review was performed to verify compliance with the project documents. Following approval we observed steel reinforcement and concrete placement for the footings, caissons, grade beams, slab-on-grade floor, elevated decks, roof deck, ramps and

equipment pads. The steel reinforcement placement was observed to be in accordance to the project plans and specifications and approved modifications thereof. At various locations the installation of drilled epoxied anchors were observed and load tested. At all locations installation and load tests were found to be acceptable per the approved plans.

During concrete placement we measured concrete consistency, and temperature. Compressive strength testing has shown that, where tested, concrete materials tested met the required compressive strength (see Appendix A, Summary of Concrete and Shotcrete Compressive & Core Test Results).

Prior to shotcrete wall construction a test panel was constructed to evaluate the acceptability of placement methods. Following test panel construction eight shotcrete cores were obtained. Visual observation and compressive strength testing indicated that proposed placement methods were acceptable. Steel reinforcement and shotcrete placement was also observed during shotcrete wall panel construction. A special inspector from Youngdahl was present on a continuous basis during shotcrete placement. We observed the shotcreting process and observed mixing and placement procedures, as well as bonding of the shotcrete during application. For each 50 cubic yards, or for each work day, of shotcrete placed a reinforced shotcrete panel was constructed. All compressive strength test results and cores which contained reinforcement indicated that shotcrete application and reinforcement bonding was above the required specification. Laboratory test results of the shotcrete cores are contained in Reference 4 and included in this letter, Appendix A, as Tables I and II.

2.0 High Strength Bolt Inspection

Our inspector performed high strength bolt torque testing at basement, first floor, second floor and roof level connections. Our tests, inspections, and records of observations indicate that the bolting was performed in accordance with the project plans and specifications.

3.0 Structural Steel and Welding

Prior to the start of work we reviewed the fabricator's welding procedures and welder qualifications at Metalworks, located in Oroville Ca. We observed joint fit-up of materials and maintained a written record indicating member ID date and acceptance. Mill certifications were collected during structural inspections at the site. Our AWS inspector performed both periodic shop and field observations of the welded connection on tube steel columns, diagonal brace frames, moment connections and beam to column connections. In addition, continuous inspection and ultra-sonic testing of complete penetration groove welds was performed. Our tests, inspections, and records of observations indicate that the structural steel welding and ultra-sonic testing was performed in accordance with AWS standards.

4.0 Fireproofing Observations and Field Testing

Our representative performed thickness testing of sprayed fire-resistive materials. In addition, field samples of the fireproofing materials were obtained from the first floor B Line 5 to 6; the first floor framing, secondary beam 2.3, Line 6 to 6.5; and the second floor framing, secondary beam 2, Line D to F for laboratory density testing. Thickness and density testing has shown that, where tested, the fireproofing materials met the required thickness and dry density after re-application procedures (see References 5 and 6):

SUMMARY

Based upon our laboratory testing and field observations during special inspection for the subject project, it is our opinion that the above referenced tasks, to the best of our knowledge, have been completed in general conformance with the approved project plans and specifications. *No guarantee or warranty of the contractor's work is made, expressed, or implied. Conditions and limitations of the executed contract (Reference 1) shall apply to work performed.*


The verb, "to inspect", from which the words "inspection" and "inspector" are derived, as used by Youngdahl Consulting Group, Inc., means observation and monitoring, and does not mean the right to control the contractor's work. When authorized by the client, the work will be stopped if it is perceived that the work is not proceeding according to the plans and specifications.

We trust that this letter provides you with the needed information. If you have any questions or desire additional information, please do not hesitate to call.

Very truly yours,
Youngdahl Consulting Group, Inc.


Steve P. Marcki, I.C.B.O./A.W.S.
Construction Inspection Manager

Reviewed by:


Martha A. McDonnell, P.E.
Associate Engineer



Distribution: 4 Copies: Client

Attachment: Appendix A - Summary of Laboratory Compression Test Results

APPENDIX A

SUMMARY OF

CONCRETE COMPRESSIVE TEST RESULTS

&

SHOTCRETE COMPRESSIVE & CORE TEST RESULTS

TABLE 1
**SUMMARY OF LABORATORY TESTING OF PRE-CONSTRUCTION
 SHOTCRETE PANEL (1-26-04)
 (ASTM C 42)**

Specimen Number	1	2	3	4	5	6	7	8
Location								
Date Tested	2/9/04	2/9/04	2/23/04	2/23/04	2/23/04	2/23/04	2/23/04	2/23/04
Age at Testing (days)	14	14	28	28	28	28	28	28
Length of Capped Core (in.)	-	-	-	-	-	-	-	-
Diameter of Core (in.)	-	-	-	-	-	-	-	-
Area (sq. in.)	4.08	3.94	3.88	4.20	4.16	4.14	4.08	4.04
Maximum Load (lbs.)	16502	14215	19955	23096	19628	20483	24077	21047
Strength (psi)	4040	3610	5140	5500	4720	4950	5900	5210
Length/Diameter Ratio	-	-	-	-	-	-	-	-
Length/Diameter Factor	-	-	-	-	-	-	-	-
Type of Fracture	Conical	Conical	Conical	Conical	Conical	Conical	Conical	Conical
Corrected Strength (psi)	4040	3610	5140	5500	4720	4950	5900	5210
Grade ACI 506R-90	2	2	1	3	2	2	1	1
Average = 1.75								

Prepared By: JLC
 Reviewed By: MAM

TABLE 2

**SUMMARY OF LABORATORY GRADING OF PRE-CONSTRUCTION
 SHOTCRETE PANEL (1-26-04)
 (ACI 506R-90)**

CORE #	GRADE	FEATURES	DIAMETER (Inches)
1	2	Split in half, voids	4
2	2	Voids around rebar	6
3	1	One small void (not around rebar)	4
4	3	Voids, small lamination at top	6
5	2	Voids around some rebar, plus other voids	4
6	2	Small voids around rebar	6
7	1	Small voids	4
8	1	Small voids	6
AVERAGE	1.75	---	5

Prepared By: JLC
 Reviewed By: MAM



CITY OF SACRAMENTO
 PLANNING & BUILDING DEPARTMENT
 BUILDING DIVISION
 www.cityofsacramento.org

Help Line: 1-916-264-5656 OR 1-866-EZ-PERMIT
 Inspection: 1-916-808-4677



Downtown Permit Center 1-916-264-6807
 1231 I Street, Suite 200, Sacramento, CA 95814

North Permit Center 1-916-808-2354
 2101 Arena Blvd., Suite 200, Sacramento, CA 95834

Prior to issuance of a permit, the applicant shall complete Part I of this form. Part II and Part III shall be completed by the project Architect/Engineer and the Development Services Department as a part of the plan review process. Before permit issuance all parties must sign this agreement. Please note that failure to comply with special inspection requirements could be expensive in terms of retrofit design and construction as well as delays in the project.

PART I: SPECIAL INSPECTION TESTING AGREEMENT

* PROJECT NAME L STREET Imaging Center PROJECT ADDRESS 3161 L STREET
 PLAN REVIEW NUMBER PC # 0311543 PERMIT NUMBER _____
 OWNER'S NAME 3161 L STREET LLC OWNER'S ADDRESS 3321 Power Inn ROAD #100
 OWNER'S REPRESENTATIVE Dain Danich OWNER'S ADDRESS Sacramento, CA 95826

TESTING/INSPECTION FIRM (S)

ITEMS

* 1. Youngdahl & Associates, Inc. 916/933-0633
1234 Glenhaven Court, El Dorado Hills, CA 95762
 CONTACT PERSON STEVE MARCKI
 2. _____
 CONTACT PERSON _____

PART II: SPECIAL INSPECTION TESTING AGREEMENT - INSPECTION REQUIRED

In accordance with Chapter 17 Section 1701 of the UCB, as adopted by this jurisdiction, special inspection is required as noted below:

Pre-construction Meeting Required Waived

CODE SECTION	TYPE OF WORK	CONTINUOUS	PERIODIC
1701.5.1	CONCRETE	X	
1701.5.2	BOLTS INSTALLED IN CONCRETE	X	X
1701.5.3	SPECIAL MOMENT - RESISTING CONCRETE FRAME		X
1701.5.4	REINFORCING STEEL AND PRESTRESSING STEEL TENDONS		X
1701.5	STRUCTURAL WELDING		
1701.5.1	GENERAL		
	FIELD STRUCTURAL WELDING	X	
	SHOP STRUCTURAL WELDING (REQUIRING SPECIAL INSPECTION)	X	X
1701.5.2	SPECIAL MOMENT -RESISTING STEEL FRAMES	X	
1701.5.3	WELDING OF REINFORCING STEEL	X	
1701.5.6	HIGH STRENGTH BOLTING	X	X
1701.5.7	STRUCTURAL MASONRY		X
1701.5.8	REINFORCED GYPSUM CONCRETE		
1701.5.9	INSULATING CONCRETE FILL		
1701.5.10	SPRAY APPLIED FIREPROOFING		X
1701.5.11	PILING, DRILLED PIERS AND CAISSONS	X	X
1701.5.12	SHOTCRETE	X	
1701.5.13	SPECIAL GRADING, EXCAVATION & FILLING	X	X
1701.5.14	SMOKE CONTROL SYSTEM		X
1701.5.15	SPECIAL CASES		
1702	STRUCTURAL OBSERVATION PER SECTION 307 REQUIRED: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
SCC9.26.1004	FLOOD PROFING INSPECTION & CERTIFICATION		
OTHER:			
SPECIAL INSTRUCTIONS			
<u>Rebar Couplers - Periodic ; Expansion bolts - Periodic</u>			
<u>Adhesive Anchors - Continuous</u>			

SPECIAL INSPECTION AND TESTING AGREEMENT

When special inspection is required by Section 1701, the architect or engineer of record shall prepare an inspection program, which shall be submitted to the Building Official for approval prior to issuance of the building permit. The special inspector shall be employed by the owner (other than owner-builder/developer), the engineer or architect of record, or an agent of the owner, BUT NOT the contractor, or another person responsible for the work (such as an owner-builder /developer).

The special inspection firm(s) named in Part I have been authorized to perform the special inspection and testing services designated in this agreement, and in accordance with the Uniform Building Code (UBC) requirement, and to report all activities inspections performed by the Building Inspector.

The undersigned hereby affirm, under the penalty of law that the special inspection program is in accordance with the requirements of the UCB and the City of Sacramento.

The undersigned has used all reasonable diligence in completing this form and to the best of his/her knowledge the information contained herein is true and complete. The undersigned hereby certifies under the penalty of perjury under the laws of the State of California that the foregoing is true and correct.

	SIGNATURES	PHONE NUMBER
* OWNER	<i>[Signature]</i>	736 9000
ARCHITECT		
* ENGINEER	<i>[Signature]</i> - HSH Inc.	(916) 373-1995
CONTRACTOR		
DEVELOPER		
* SPECIAL INSPECTOR	<i>[Signature]</i> - Youngdale	(916) 933-0633

WARNING: Any person, who certifies under penalty of perjury in any case where certification is permitted by law and willfully states as true any material matter which he or she knows to be false, may be found guilty of perjury and subject to penalties which may include fines or imprisonment under the California Penal Code.

PART III GEOTECHNICAL INSPECTION REQUIREMENTS

GEOTECHNICAL FIRM			
GEOTECHNICAL FIRM ADDRESS		PHONE NUMBER	
GEOTECHNICAL ENGINEER			
REPORT NUMBER			
REPORT DATE	RECEIPT NUMBER	REVISION DATES	

	TYPE OF WORK	REQUIRED
SITE PREPARATION/FILL ADDRESS		
FOUNDATION OBSERVATION		
DRILLED PIERS AND CAISSONS		

IF THE EARTHWORK INSPECTION IS NOT BEING DONE BY THE ABOVE GEOTECHNICAL ENGINEERING FIRM THEN A REVISED REPORT MUST BE SUBMITTED TO AND APPROVED BY THE CITY'S DEVELOPMENT SERVICES DIVISION.

ACCEPTED FOR THE BUILDING DEPARTMENT

PLAN CHECK ENGINEER (Please Print) JOSEPH M. NICOLAS
 PLAN CHECK ENGINEER SIGNATURE *[Signature]* DATE 1/08/04

INSTRUCTION TO THE SPECIAL INSPECTOR

1. PROVIDE DAILY FIELD REPORTS TO THE BUILDING INSPECTOR ON SITE AS CONSTRUCTION PROGRESSES.
2. A COPY OF ALL-SPECIAL INSPECTIONS LABORATORY REPORTS SHALL BE SENT TO THE PLAN CHECK ENGINEER IDENTIFIED ABOVE AND THE ARCHITECT OR ENGINEER OF RECORD.
3. UPON COMPLETION OF SPECIAL INSPECTIONS AND TESTING WORK, PROVIDE THE CITY'S PLAN CHECK ENGINEER WITH A FINAL SPECIAL INSPECTIONS TEST REPORT, WET STAMPED, AND SIGNED BY THE RESPONSIBLE _____