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MEMORANDUM

TO: Davis Buckley

FROM: Robert Schiesel, P.E.

Lou Slade, P.E., PTOE

DATE: September 14, 2007

SUBJECT: Florida Rock Revised Plans

Transportation Analysis

Gorove/Slade Associates, Inc. conducted a traffic impact study for the subject site in conjunction with the Planned Unit Development (PUD) and Zoning Map Amendment application (Z.C Case No. 04-14C) of Florida Rock Properties, Inc. As part of the public review of that application, the traffic impact study was reviewed and supported by the District Department of Transportation (DDOT) after revisions. The revised Traffic Impact Study (TIS) for the Florida Rock PUD is attached to this memo.

In its deliberations of the Florida Rock PUD application, the Zoning Commission of the District of Columbia made several comments about the proposed project. Responding to the concerns and comments from the Zoning Commission, Florida Rock is proposing a modified development program.

This memorandum summarizes an assessment of the potential impacts of the proposed modified development on the surrounding network, based on the conclusions drawn in the existing Traffic Impact Study.

Development Program Comparison

Table 1 provides a comparison of the current development program (as of September 11, 2007) of the proposed Florida Rock PUD, and the program from a prior submittal.

Table 1 - Development Program Comparison

Land Use	December 11, 2006 Approx. Gross Floor Area	September 11, 2007 Approx. Gross Floor Area		
Apartment	203,300 SF (160 Units)	323,433 SF (248 Units)		
Hotel	242,400 SF (240 Rooms)	246,190 SF (240 Rooms)		
Office	608,100 SF	464,937 SF		
Retail	61,800 SF	80,840 SF		
Total	1,115,600 SF	1,115,400 SF		

Other than the land use amounts, no other aspect of the plan that significantly influence traffic patterns has changed. The number of parking spaces, the location and control of garage access points, the site circulation, the loading dock configuration, and the total amount of parking spaces remain the same.

Trip Generation Analysis

Trips generated by the two programs shown in Table 1 were estimated using a combination of the Institute of Transportation Engineers (ITE) Trip Generation 7th edition rates and mode split assumptions from the "Development-Related Ridership Survey II", conducted by the Washington Metropolitan Area Transit Authority (WMATA). This is similar to the methodology employed in the trip estimates contained in the existing Traffic Impact Study. Table 2 summarizes the trip generation for both development programs.

Table 2 - Trip Generation Comparison

	ITE Code	Amount		Trip Generation					
PUD Component				AM Peak Hour			PM Peak Hour		
			ln .	Out	Total	- In	Out	Total	
December 11, 2006 Program		新克瑟			用被基础	經過國際遊			* 100
Apartment	220	160	Units	16	66	82	69	37	106
Alt. Mode Reduction (48%)				(8)	(32)	(39)	(33)	(18)	(51)
Hotel	310	240	Rooms	91	66	157	74	78	152
Alt. Mode Reduction (25%)				(23)	(17)	(39)	(19)	(20)	(38)
East Office Building	710	288.3	kSF	385	53	438	68	334	402
Alt. Mode Reduction (30%)				(116)	(16)	(131)	(20)	(100)	(121)
West Office Building	710	319.8	kSF	418	57	475	74	363	437
Alt. Mode Reduction (30%)				(125)	(17)	(143)	(22)	(109)	(131)
Retail	814	61.8	kSF	18	17	35	75	95	170
Alt. Mode Reduction (30%)				(5)	(5)	(11)	(23)	(29)	(51)
Total (12/11/2006 Program)				651	173	824	243	632	875
September 11, 2007 Program	STATE OF	是全地				以是例如及如"有"	是可能多数	2000年至	153.4
Apartment	220	248	Units	25	100	125	100	54	154
Alt. Mode Reduction (48%)				(12)	(48)	(60)	(48)	(26)	(74)
Hotel	310	240	Rooms	91	66	157	74	78	152
Alt. Mode Reduction (25%)				(23)	(17)	(39)	(19)	(20)	(38)
East Office Building	710	229.3	kSF	320	44	364	57	279	336
Alt. Mode Reduction (30%)				(96)	(13)	(109)	(17)	(84)	(101)
West Office Building	710	235.6	kSF	327	45	372	58	285	343
Alt. Mode Reduction (30%)				(98)	(14)	(112)	(17)	(86)	(103)
Retail	814	80.8	kSF	22	22	44	95	120	215
Alt. Mode Reduction (30%)				(7)	(7)	(13)	(29)	(36)	(65)
Total (9/11/2007 Program)				550	179	729	255	565	820
Difference (9/11/07 - 12/11/06		. 供養知识证	REAL PROPERTY	(102)	6	(95)	11	(67)	(56)

As shown in Table 2, the September development program generates 12% fewer a.m. peak hour trips, and 6% fewer in p.m. peak hour trips.

The September 2007 development program has the same site driveways and access patterns. Thus, because it generates the same or less trips than the December 2006 program, and site access remains the same, the roadway capacity calculations contained in the traffic impact study based on the 2006 program are still valid for the September 2007 program.

Parking Requirement Comparison

The Florida Rock PUD will provide approximately 1,000 underground parking spaces, similar to the amount of parking as previously proposed. The primary change to the parking garage in the newly proposed plan is how the spaces are assigned to each use. Table 3 shows a comparison of the required parking per land use (as per zoning regulations) and the assigned parking per land use for both the newly proposed plan and the previous development program.

Table 3 - Parking Comparison

Land Use	Number of Spaces						
	12/11/06	12/11/06	9/11/07	9/11/07 Final Ratio			
	Development Program	Final Ratio at Build-Out	Development Program	Build-Out			
Office	608.1 kSF		464.9 kSF				
Provided	506	0.83 spaces	378	0.81 spaces			
Required	337	per 1,000 SF	257	per 1,000 SF			
Difference	+169		+121				
Retail	61.8 kSF		80.8 kSF				
Provided	79	1.28 spaces	103	1.27 spaces			
Required	79	per 1,000 SF	103	per 1,000 SF			
Difference	+0		+0				
Residential	160 Units		248 Units				
Provided	259	1.62 spaces	348	1.40 spaces			
Required	54	per dwelling unit	62	per dwelling unit			
Difference	+205		+286				
Hotel	240 Rooms		240 Rooms				
Provided	166	0.69 spaces	181	0.75 spaces			
Required	82	per guest room	80	per guest room			
Difference	+84		+101				
Total							
Provided	1,010		1,010				
Required	552		502				
Difference	+458		+508				

Cascade Plaza Trip Generation

Comments were made regarding the amount of traffic using the central Cascade Plaza. The placement of garage locations and traffic circulation within the site will ensure an insignificant amount of traffic uses the plaza. The prior traffic study showed a conservative trip generation estimate of 134 vehicle trips in the AM peak hour, and 135 in the PM peak hour, mostly generated by pick-up/drop off activity at the hotel valet and office and residential buildings facing the plaza. This equates to approximately one vehicle every thirty seconds. Most likely the amount of vehicles using the plaza will be less, given the conservative trip estimate and the likely-hood that the same vehicle will account for two vehicle-trips (a pick-up/drop-off movement).

Florida Rock Traffic Analysis September 14, 2007 Page 4

In addition, the Cascade Plaza will be using pavers, lighting, and vertical elements to intuitively separate pedestrian and vehicular traffic and indicate to drivers that they are entering a pedestrian-oriented zone. Illuminated glass elements imbedded with the cascade travel way, changes to the texture of the surface and the dynamic design of cascade pattern will provide immediate visual identification about the nature of this space as being a special area that is a pedestrian area that also accommodates vehicular traffic. The shape and roadway geometry of the plaza does not allow for vehicles to attain high speeds, and allows for good visibility between drivers and motorists (even at night). This design allows for the Cascade Plaza to fill essential traffic needs while minimizing possible pedestrian and vehicular conflicts.

SUMMARY

Based on this comparison of the September 2007 development program for the Florida Rock PUD with the program previously proposed in December 2006, the conclusions reached in the traffic impact study for the prior submittal are still valid:

"Based on the capacity analysis results contained in this report, prior transportation studies performed near the site, and a review of the site plan, the proposed Florida Rock mixed-use development will have no negative impact on the surrounding local roadway network. The parking provided, circulation within the site, loading operations, and access to Potomac Avenue from site driveways is acceptable for each phase of the project.

The close proximity and quality of access to Metrorail significantly reduces potential traffic impacts. In addition, the connection to the Anacostia Riverwalk Trail provides an additional transportation feature to site residents, visitors and office tenants."