



Rincon Consultants, Inc.

250 East 1st Street, Suite 1400
Los Angeles, California 90012

213 788 4842 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

May 12, 2020
Project No. 18-06469

Romi Archer, Senior Project Manager
Circlepoint
2100 West Orangethorne Avenue, Suite 165
Orange, CA 92868
Via email: r.archer@circlepoint.com

**Subject: Tapestry Hotel Project, Noise and Vibration Assessment Memorandum
1570 Brookhollow Drive, Santa Ana, California 92705**

Dear Ms. Archer:

Rincon Consultants, Inc. (Rincon) is pleased to provide this Noise and Vibration Assessment Memorandum analyzing the potential noise and vibration impacts of the proposed Tapestry Hotel Project (project) in the Santa Ana, California. Rincon prepared this study under contract to Circlepoint in support of the environmental documentation being prepared pursuant to the California Environmental Quality Act (CEQA). The purpose of this study is to analyze the project's noise and vibration impacts related to both temporary construction activity and long-term operation of the project.

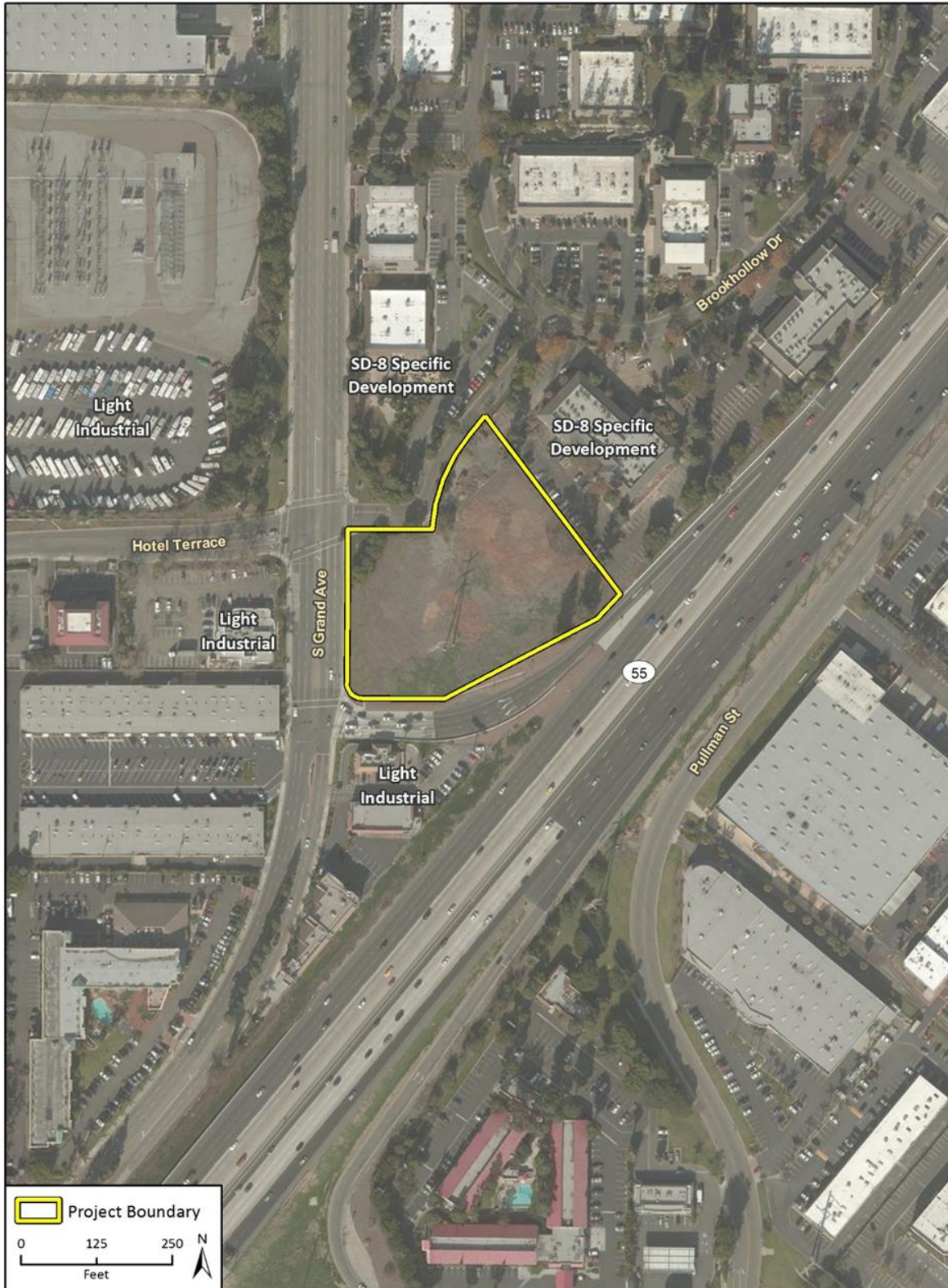
Project Location

The project site is a 2.8-acre property comprising three assessor's parcels, located at 1570 Brookhollow Drive in the City of Santa Ana (City), California (Assessor Parcel Numbers 016-221-27, 016-221-28, and 016-221-29). The project site is currently vacant but was previously developed as a restaurant/bar and parking area. The project site is bound by commercial, business park and light industrial properties to the north, south, and northwest, across South Grand Avenue. Directly across South Grand Avenue to the west are seven other hotels within an approximately one-mile radius. The Costa Mesa Freeway abuts the eastern portion of the project site. Figure 1 shows the project site and surrounding land uses.

Proposed Description

Development of the project would entail construction of a six-story, 79,375 square-foot hotel with 139 rooms, a pool, gym, roof deck and two natural gas fireplaces. A separate 2,000 square foot free-standing single-story restaurant would be constructed at the southwest corner of the lot next to Grand Avenue. The building footprint would be approximately 13,400 square feet. In addition, 142 parking spaces would be provided on-site in paved, surface lots. Of these spaces, six would be reserved for handicapped parking (two for the restaurant and four for the hotel). Ten bicycle spaces would be provided separate from the vehicle parking lot (four for the restaurant and six for the hotel). The total construction area would include 100,738 square feet of impervious surface composing 82 percent of the project site. Attachment A includes a site plan of the project.

Figure 1 Project Site Location



Imagery provided by Microsoft Bing and its licensors © 2019.

Fig 1 Project Location

Noise Background

The unit of measurement used to describe a noise level is the decibel (dB). However, the human ear is not equally sensitive to all frequencies within the sound spectrum. Therefore, a method called “A weighting” is used to adjust actual sound pressure levels so that they are consistent with the human hearing response, which is most sensitive to frequencies around 4,000 Hertz (Hz) and less sensitive to frequencies around and below 100 Hz, thus filtering out noise frequencies that are not audible to the human ear. A weighting approximates the frequency response of the average young ear when listening to most ordinary everyday sounds. When people make relative judgments of the loudness or annoyance of a sound, their judgments correlate well with the “A-weighted” levels of those sounds. Therefore, the A-weighted noise scale is used for measurements and standards involving the human perception of noise. In this analysis, all noise levels are A-weighted, and “dBA” is understood to identify the A-weighted decibel.

Decibels are measured on a logarithmic scale that quantifies sound intensity in a manner similar to the Richter scale used for earthquake magnitudes. A doubling of the energy of a noise source, such as a doubling of traffic volume, would increase the noise level by 3 dB; similarly, dividing the energy in half would result in a decrease of 3 dB (Crocker 2007).

Human perception of noise has no simple correlation with sound energy: the perception of sound is not linear in terms of dBA or in terms of sound energy. Two sources do not “sound twice as loud” as one source. It is widely accepted that the average healthy ear can barely perceive an increase (or decrease) of up to 3 dBA in noise levels (i.e., twice [or half] the sound energy); that an increase (or decrease) of 5 dBA (8 times [or one eighth] the sound energy) is readily perceptible; and that an increase (or decrease) of 10 dBA (10.5 times [or approximately one tenth] the sound energy) sounds twice (or half) as loud (Crocker 2007).

Descriptors

The impact of noise is not a function of loudness alone. The time of day when noise occurs, and the duration of the noise are also important. In addition, most noise that lasts for more than a few seconds is variable in its intensity. Consequently, a variety of noise descriptors has been developed. The noise descriptors used for this analysis are the one-hour equivalent noise level (L_{eq}) and the community noise equivalent level (CNEL).

The L_{eq} is defined as the single steady A-weighted level that is equivalent to the same amount of energy as that contained in the actual fluctuating levels over a period. Typically, L_{eq} is equivalent to a one-hour period, even when measured for shorter durations as the noise level of a 10- to 30-minute period would be the same as the hour if the noise source is relatively steady. L_{max} is the highest Root Mean Squared (RMS) sound pressure level within the sampling period, and L_{min} is the lowest RMS sound pressure level within the measuring period (Crocker 2007).

The CNEL is a 24-hour equivalent sound level with an additional 5 dBA penalty to noise occurring during evening hours, between 7:00 p.m. and 10:00 p.m., and an additional 10 dBA penalty to noise occurring during the night, between 10:00 p.m. and 7:00 a.m., to account for the added sensitivity of humans to noise during these hours (California Department of Transportation [Caltrans] 2013). Quiet suburban areas typically have a CNEL in the range of 40 to 50 dBA, while areas near arterial streets are in the 50 to 70+ CNEL range.

Propagation

Sound changes in both level and frequency spectrum as it travels from the source to the receiver. The most obvious change is the decrease in sound level as the distance from the source increases. The way sound reduces with distance depends on factors such as the type of source (e.g., point or line), the path the sound will travel, site conditions, and obstructions. Sound levels from a point source (e.g., construction, industrial machinery, ventilation units) typically attenuate, or drop off, at a rate of 6 dBA per doubling of distance. Sound from a line source (e.g., roadway, pipeline, railroad) typically attenuates at about 3 dBA per doubling of distance (Caltrans 2013).

Vibration Background

Typical outdoor sources of perceptible groundborne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If a roadway is smooth, the groundborne vibration from traffic is rarely perceptible. Groundborne vibration of concern in environmental analysis consists of the oscillatory waves that move from a source through the ground to adjacent structures. The number of cycles per second of oscillation makes up the vibration frequency, described in terms of hertz (Hz). The vibration frequency of an object describes how rapidly it oscillates. The normal frequency range of most groundborne vibration that can be felt by the human body is from a low of less than 1 Hz up to a high of about 200 Hz (Crocker 2007).

While people have varying sensitivities to vibrations at different frequencies, in general they are most sensitive to low-frequency vibration. Vibration in buildings, such as from nearby construction activities, may cause windows, items on shelves, and pictures on walls to rattle. Vibration of building components can also take the form of an audible low-frequency rumbling noise, referred to as groundborne noise. Groundborne noise may result in adverse effects, such as building damage, when the originating vibration spectrum is dominated by frequencies in the upper end of the range (60 to 200 Hz). Vibration may also damage infrastructure when foundations or utilities, such as sewer and water pipes, physically connect the structure and the vibration source (Federal Transit Administration [FTA] 2018). Although groundborne vibration is sometimes noticeable in outdoor environments, it is almost never annoying to people who are outdoors. The primary concern from vibration is that it can be intrusive and annoying to building occupants and vibration-sensitive land uses.

Descriptors

Vibration amplitudes are usually expressed in peak particle velocity (PPV) or RMS vibration velocity. The PPV and RMS velocity are normally described in inches per second (in./sec.). PPV is defined as the maximum instantaneous positive or negative peak of a vibration signal. PPV is often used in monitoring of blasting vibration because it is related to the stresses that are experienced by buildings (Caltrans 2020).

Response to Vibration

Vibration associated with construction of the project has the potential to be an annoyance to nearby land uses. Caltrans has developed limits for the assessment of vibrations from transportation and construction sources. The Caltrans vibration limits are reflective of standard practice for analyzing vibration impacts on structures from continuous and intermittent sources. The Caltrans Transportation and Construction Vibration Guidance Manual (Caltrans 2020) identifies two impact criteria for buildings

and humans from transient and continuous/frequent sources: Table 1 presents the impact criteria for buildings, and Table 2 presents the impact criteria for humans.

Table 1 Vibration Damage Potential

Building Type	Maximum PPV (in./sec.)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Extremely fragile historic buildings, ruins, ancient monuments	0.12	0.08
Fragile buildings	0.20	0.10
Historic and some old buildings	0.50	0.25
Older residential structures	0.50	0.30
New residential structures	1.00	0.50
Modern industrial/commercial buildings	2.00	0.50

Note: Transient sources create a single isolated vibration event, such as blasting or drop balls (i.e., a loose steel ball that is dropped onto structures or rock to reduce them to a manageable size). Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.

PPV = peak particle velocity; in./sec. = inches per second

Source: Caltrans 2020

Table 2 Vibration Annoyance Potential

Human Response	Maximum PPV (in./sec.)	
	Transient Sources	Continuous/Frequent Intermittent Sources
Severe/Disturbing	2.00	0.700
Strongly perceptible	0.90	0.100
Distinctly perceptible	0.24	0.035
Barely perceptible	0.04	0.012

Note: Transient sources create a single isolated vibration event, such as blasting or drop balls (i.e., a loose steel ball that is dropped onto structures or rock to reduce them to a manageable size). Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.

PPV = peak particle velocity; in./sec. = inches per second

Source: Caltrans 2020

Propagation

Vibration energy spreads out as it travels through the ground, causing the vibration level to diminish with distance away from the source. High-frequency vibrations diminish much more rapidly than low frequencies, so low frequencies tend to dominate the spectrum at large distances from the source. Variability in the soil strata can also cause diffractions or channeling effects that affect the propagation of vibration over long distances (Caltrans 2020). When a building is exposed to vibration, a ground-to-foundation coupling loss (the loss that occurs when energy is transferred from one medium to another) will usually reduce the overall vibration level. However, under rare circumstances, the ground-to-foundation coupling may amplify the vibration level due to structural resonances of the floors and walls.

Sensitive Receivers

Noise exposure goals for various types of land uses reflect the varying noise sensitivities associated with each of these uses. According to the City of Santa Ana General Plan Noise Element (2010), noise-sensitive land uses include residential uses, institutional uses (i.e., hospitals, school classrooms/playgrounds, churches, and libraries), and open space areas.

The nearest noise-sensitive receiver to the project site is the Ricca Children’s Learning Center north of the site. While the Learning Center is located approximately 175 feet north of the site, its outdoor playground is located closer to the site at 125 feet north of the site. In addition, Holiday Inn hotel is located approximately 500 feet southwest of the site. Although not explicitly listed as a noise-sensitive use, Holiday Inn hotel is considered a sensitive receiver for this analysis due to its inclusion of living quarters and sleeping areas as a residential-type use. The nearest single- and multi-family residences are located approximately 0.3 mile to the west and would not be subject to substantial noise from project construction or operation due to their distance from the project site.

Project Area Noise Setting

The primary off-site noise sources in the project site vicinity are motor vehicles (e.g., automobiles, buses, and trucks), particularly along the State Route (SR)-55 and its southbound off-ramp south of the site and South Grand Avenue west of the site. Ambient noise levels would be expected to be highest during the daytime and rush hour unless congestion slows speeds substantially. To determine ambient noise levels at the project site, two 15-minute noise measurements were recorded during the morning peak hour on January 3, 2019 between 7:15 a.m. and 8:00 a.m. using an Extech (Model 407780A) ANSI Type 2 integrating sound level meter. Noise Measurement (NM) 1 was conducted at the western boundary along South Grand Avenue while NM 2 was conducted on the southern boundary of the site along SR-55. Figure 2 shows noise measurement locations and Table 3 summarizes the noise measurement results. Noise levels for the 15-minute measurements are provided in L_{eq} for the measurement period; L_{min} and L_{max} are also provided. Noise measurement data is included in Attachment B.

Table 3 Project Noise Monitoring Results

#	Measurement Location	Sample Times	Approximate Distance to Primary Noise Source	L_{eq} (dBA)	L_{min} (dBA)	L_{max} (dBA)
1	South Grand Avenue; West of the project site	7:42 – 7:57 a.m.	55 feet to centerline of South Grand Avenue	70.0	62.5	84.0
2	SR-55 southbound off-ramp; South of the project site	7:16 – 7:31 a.m.	45 feet to centerline of SR-55 off-ramp	71.6	67.1	77.6

See Attachment B for noise measurement data.

Source: Rincon field measurements January 3, 2019.

Figure 2 Noise Measurement Locations



Imagery provided by Microsoft Bing and its licensors © 2020.

Fig. 2 Noise Measurement Locations



Regulatory Setting

City of Santa Ana General Plan Noise Element

The goals and policies in the City of Santa Ana General Plan Noise Element (2010) focus on minimizing the negative impacts of noise, especially at sensitive receivers. In support of these goals and policies, the Noise Element includes standards for exterior and interior levels at various noise-sensitive land uses, which are shown in Table 4.

Table 4 Interior and Exterior Noise Standards in CNEL

Categories	Land Use Categories	Interior ¹ (CNEL)	Exterior ² (CNEL)
Residential	Single-family, duplex, multi-family	45 ³	65
Institutional	Hospital, school classroom/playgrounds	45	65
	Church, library	45	--
Open Space	Parks	--	65

¹ Interior areas include, but are not limited to: bedrooms, bathrooms, kitchens, living rooms, dining rooms, closets, corridors/hallways, private offices, and conference rooms.

² Exterior areas include: private yards of single-family homes, park picnic areas, school playgrounds, common areas, private open space, such as atriums or balconies, shall be excluded from exterior areas provided sufficient common area is included within the project.

³ Interior noise level requirements contemplate a closed window condition. Mechanical ventilation system or other means of natural ventilation shall be provided per Chapter 12, Section 1305 of the Uniform Building Code.

Source: Santa Ana 2010

According to the Noise Element, all residential uses should be protected with sound insulation over and above that provided by normal building construction when constructed in areas exposed to greater than 60 CNEL.

The City’s Noise Element does not explicitly characterize noise exposure levels or other standards for a hotel uses, but for the purpose of this analysis, the proposed hotel is considered a noise-sensitive residential use due to the hotel’s inclusion of living quarters and sleeping areas.

Santa Ana Municipal Code

Article VI, *Noise Control*, of the Santa Ana Municipal Code (SAMC) establishes a series of regulations and standards to prevent unnecessary or excessive noise that may be detrimental to the health, welfare, and safety of the public or degrade their quality of life. According to Section 18-314(e) of the SAMC, noise associated with construction, repair, modeling, or grading of any property is exempt from the provisions of Article VI provided that such work only occurs between 7:00 a.m. and 8:00 p.m. on weekdays and Saturdays. In addition, Section 18-315 prohibits the generation of noise that causes the exterior noise level at any school, church, or hospital to exceed 55 dBA L_{eq} from 7:00 a.m. to 10:00 p.m. and 50 dBA L_{eq} from 10:00 p.m. to 7:00 a.m.

Significance Thresholds

To determine whether a project would have a significant noise impact, Appendix G of the *CEQA Guidelines* requires consideration of whether a project would result in:

1. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies
2. Generation of excessive groundborne vibration or groundborne noise levels
3. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, expose people residing or working in the project area to excessive noise levels

Impact Analysis

CEQA Appendix G Noise Threshold 1 Would the proposed project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

The project would involve construction of a six-story hotel with 139 rooms and a separate, one-story restaurant on a 2.8-acre site. The site is surrounded by commercial, business park, and light industrial uses that may be subject to increased noise levels from both temporary construction and long-term operations. Of these uses, the nearest noise-sensitive receivers include the Ricca Children’s Learning Center playground located approximately 125 feet north of the site and the Holiday Inn hotel located approximately 500 feet southwest of the site. The following discussions address the potential noise level increases associated construction and operation of the project.

Construction Noise

Construction activity would result in temporary increases in ambient noise levels in the project area on an intermittent basis and, as such, would expose surrounding noise-sensitive receivers to increased noise levels. While the City does not have specific noise level criteria for assessing construction impacts, the FTA has developed criteria for determining whether construction of a project would result in a substantial temporary increase in noise levels. Based on FTA guidance, a significant impact would occur if project-generated construction noise exceeds a one-hour 90 dBA L_{eq} noise limit during the day or a one-hour 80 dBA L_{eq} noise limit at night at the nearest residences (FTA 2018). While the noise-sensitive receivers nearest to the project site are not residential uses, Ricca Children’s Learning Center, i.e., both the Learning Center and its playground, and Holiday Inn hotel are considered as noise-sensitive as residential uses for the purpose of this analysis based on land uses the City characterizes as noise-sensitive, as discussed under *Sensitive Receivers* and *Regulatory Setting*. Therefore, the FTA thresholds are used to determine whether noise levels from construction would result in a substantial temporary increase in noise levels at nearby sensitive receivers.

Construction noise was estimated using the Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) (2006). RCNM predicts construction noise levels for a variety of construction operations based on empirical data and the application of acoustical propagation formulas.



Using RCNM, construction noise levels were estimated at noise-sensitive receivers near the project site. RCNM provides reference noise levels for standard construction equipment, with an attenuation of 6 dBA per doubling of distance for stationary equipment.

Each phase of construction has a specific equipment mix, depending on the work to be accomplished during that phase. Each phase also has its own noise characteristics; some will have higher continuous noise levels than others, and some may have discontinuous high-impact noise levels. The maximum hourly L_{eq} of each phase is determined by combining the L_{eq} contributions from each piece of equipment used in that phase (FTA 2018). Project construction phases would include site preparation, grading, building construction, architectural coating, and paving of the project site. It is assumed that diesel engines would power all construction equipment. For assessment purposes, the loudest phases (i.e., grading, and building construction) have been used for this assessment and have been modeled under the conservative assumption that a dozer, an excavator, and a jackhammer would be operating simultaneously.

Construction equipment would be continuously moving across the site, coming near and then moving further away from individual receivers. Therefore, due to the dynamic nature of construction, maximum hourly noise levels are calculated at various distances from the center of on-site construction activity to the nearest receivers. Based on the configuration of the project site, the center area of the site is located, on average, about 100 feet from site boundaries. Therefore, using the FHWA RCNM, construction noise was modeled at 225 feet from the Ricca Children’s Learning Center playground to the north and 600 feet from the Holiday Inn hotel to the southwest. For a conservative analysis, construction noise modeling does not account for noise reduction from existing noise barriers (e.g., masonry walls). Construction noise levels and distances to the nearest receivers are shown in Table 5. RCNM calculations are included in Attachment C.

Table 5 Construction Noise Levels at Receivers

Construction Equipment	Approximate L_{eq} , dBA	
	225 Feet	600 Feet
Bulldozer, Excavator, Jackhammer	71	63

See Attachment C for RCNM results.

As shown in Table 5, maximum hourly noise levels during project construction, which would occur during the grading and building phases of construction, were calculated at between 63 dBA L_{eq} and 71 dBA L_{eq} at the nearest noise-sensitive receivers. Therefore, construction noise levels would not exceed the FTA daytime noise criteria of 90 dBA L_{eq} , where off-site noise would be of disturbance to daytime school operations and hotel guests. In addition, construction work would occur during daytime hours and, therefore, construction noise levels would not exceed the FTA nighttime noise criteria of 80 dBA L_{eq} , where off-site noise would be of disturbance to sleeping hotel guests. Therefore, construction noise levels would not exceed applicable noise criteria at nearby noise-sensitive uses. Construction noise impacts would be less than significant.

Land Use Compatibility

Operation of the proposed project would also expose future residential development to ambient noise levels. However, agencies subject to CEQA generally are not required to analyze the impact of existing

environmental conditions on a project's future users or residents. In *California Building Industry Association v. Bay Area Air Quality Management District (2015) 62 Cal. 4th 369*, the California Supreme Court explained that an agency is only required to analyze the potential impacts to future residents if the project would exacerbate those existing environmental hazards or conditions. CEQA analysis is therefore concerned with a project's impact on the environment, rather than with the environment's impact on a project and its users or residents. Thus, bringing a new population into an area where noise currently exists is not a significant environmental impact under CEQA unless doing so would exacerbate noise conditions. Nonetheless, the following analysis of potential exposure to excessive noise is provided for informational purposes.

The most predominant source of noise on and around the project site is vehicular traffic from the SR-55 and its southbound off-ramp south of the site and South Grand Avenue west of the site. The City's Noise Element interior and exterior noise standards do not explicitly characterize noise exposure levels for a hotel use, but for the purpose of this analysis, the proposed hotel is considered a residential use and noise exposure levels for a residential land use is used to characterize compatible noise exposure levels due to the hotel's inclusion of living quarters and sleeping areas. Based on the City's interior and exterior noise standards shown in Table 4 an exterior noise level up to 65 CNEL and an interior noise level up to 45 CNEL is acceptable for a residential land use (Santa Ana 2010).

The FHWA Traffic Noise Prediction Model was used to model traffic noise along the SR-55 and South Grand Avenue under Existing Plus Project traffic conditions to determine noise levels at the hotel upon implementation of the project in comparison to the City's interior and exterior noise standards shown in Table 4. According to the Traffic Impact Study (TIS) conducted by Jano Baghdanian & Associates (JBA) in March 2019, the segment of South Grand Avenue nearest to the project site carries average daily traffic (ADT) of approximately 25,000 vehicles (JBA 2019). Based on Caltrans traffic volumes, the segment of SR-55 between East Dyer Road and Edinger Avenue carries an ADT of approximately 288,600 (Caltrans 2017). According to the Traffic Analysis Update conducted by JBA in February 2020, the project would generate 761 ADT. Conservatively adding all 761 daily vehicle trips generated by the proposed project to each roadway under an Existing Plus Project traffic condition would increase daily traffic to 25,761 ADT along South Grand Avenue and 289,361 ADT along SR-55. Vehicle mixes of 95 percent automobile, three percent medium-duty trucks, and two percent heavy-duty trucks were assumed in the Traffic Noise Prediction Model for both SR-55 and South Grand Avenue. Traffic Noise Prediction Model results are included in Attachment D.

Based on noise contours calculated using the FHWA Traffic Noise Prediction Model for the Existing Plus Project traffic conditions scenario, the project's façades facing South Grand Avenue and SR-55 would be exposed to daily noise levels of approximately 65 CNEL and 81 CNEL, respectively. Based on the City's interior and exterior noise standards, the project's façades with direct line-of-sight to SR-55 would be exposed to noise levels in excess of the City's 65 CNEL exterior noise level. According to the City's Noise Element, all residential uses, and by extension the proposed hotel, should be protected with sound insulation over and above that provided by normal building construction when constructed in areas exposed to greater than 60 CNEL (Santa Ana 2010).

Generally, any large structure blocking the line of sight will provide at least a 5-dBA reduction in source noise levels at the receiver (FHWA 2011). Structures can substantially reduce occupants' exposure to noise as well. The FHWA's guidelines indicate that modern building construction generally provides an exterior-to-interior noise level reduction of 20 to 35 dBA with closed windows (FHWA 2011). Modern buildings are typically constructed with storm windows, single- or double-glazed, which provide an



exterior-to-interior noise level reduction of at least 25 dBA. Based on a noise exposure level of up to 81 CNEL and a noise attenuation of 25 dBA, the interior noise level at hotel guest rooms facing SR-55 would be 56 CNEL. Therefore, interior noise levels for the project could exceed the City's interior noise standard of 45 CNEL. The project would need to incorporate appropriate noise attenuation techniques, such as the sound insulation measures described below, to reduce exterior noise levels to 45 CNEL at interior spaces of guest rooms facing SR-55:

Sound Insulation: To reduce potential noise impacts to future hotel guests, guest rooms with direct line-of-site to SR-55 should incorporate design measures for windows, walls, and doors that achieve a composite Sound Transmission Class (STC) rating of at least 40 and all exterior doors and windows shall be installed such that there are no air gaps or perforations. An acoustical analysis should be performed prior to the issuance of an occupancy permit to demonstrate that noise levels in the hotel rooms do not exceed the interior noise standard of 45 dBA CNEL in any habitable room as set forth by the City and California Code of Regulations, Title 24, Section 1207.4.

If implemented, the sound insulation measures described above would reduce exterior noise such that interior noise does not exceed 45 CNEL in any habitable room.

On-Site Operational Noise

Operation of the project would generate on-site noise from new heating, ventilation, and air conditioning (HVAC) equipment, delivery- and trash-hauling trucks, on-site vehicle circulation, and light outdoor recreation from lounging areas on the roof terrace.

Based on combined data from Trane, Carrier, and Rheem HVAC manufacturing companies, noise from HVAC equipment would typically generate a noise level in the range of 70 dBA L_{eq} at a reference distance of 3 feet from the source. The nearest noise-sensitive receiver, the Ricca Children's Learning Center to the north, would be located at least 216 feet from the nearest rooftop-mounted HVAC equipment based on the approximate 82-foot roof-level height of the hotel and approximate 200-foot setback between the hotel and Learning Center. Based on attenuation rate of approximately 6 dBA per doubling of distance from the source, rooftop-mounted HVAC equipment would generate an estimated noise level of 33 dBA L_{eq} at 216 feet. Furthermore, rooftop HVAC units are traditionally shielded from surrounding land uses with parapets and roofs that block line-of-sight to sensitive receivers would typically provide at least a 5-dBA noise reduction. Based on the City's exterior noise standards for schools, noise levels from on-site HVAC equipment would not exceed the noise level standards of 55 dBA L_{eq} from 7:00 a.m. to 10:00 p.m. and 50 dBA L_{eq} from 10:00 p.m. to 7:00 a.m. as regulated by SAMC Section 18-315. Therefore, operational noise impacts associated with HVAC equipment would be considered less than significant.

The proposed project would require delivery- and trash-hauling services and would include surface parking with a total of 142 parking spaces, which would introduce new on-site noise from arriving and departing trucks and vehicles. However, the project site is surrounded by commercial, business park, and light industrial uses to the north, northeast, south, and west across South Grand Avenue, which already generate these noise sources. Furthermore, primary off-site noise sources in the project area are vehicles (e.g., automobiles, buses, and trucks) along the SR-55 and its southbound off-ramp south of the site and South Grand Avenue west of the site. Therefore, due to existing ambient mobile noise, operational of the project would not generate a substantial increase in mobile noise above existing noise levels and impacts would be considered less than significant.



Outdoor recreational amenities, such as the hotel’s lounging areas on the roof terrace, would also generate noise from human conversation. Noise from human conversation among a few people generates a noise level of approximately 55 dBA L_{eq} at a distance of three feet (Los Angeles 2014). However, due to existing ambient noise and the distance of the 82-foot-tall roof level to the nearest receiver (i.e., Ricca Children’s Learning Center approximately 216 feet to the north), conversational noise would not generate a substantial increase in existing noise levels and impacts would be considered less than significant.

Operation of the project would not generate sources of noise that are new to the existing urban area. On-site operational noise generated by the project would not exceed the City’s noise standards and impacts would be less than significant.

Off-Site Traffic Noise

The proposed project would generate new vehicle trips and incrementally increase traffic on area roadways, particularly on South Grande Avenue. As discussed under *Land Use Compatibility*, the segment of South Grand Avenue nearest to the project site carries an ADT of approximately 25,000 vehicles while the segment of SR-55 nearest to the project site carries an ADT of approximately 288,600 (JBA 2019; Caltrans 2017). According to the Traffic Analysis Update conducted by JBA in February 2020, the project would generate 761 ADT. As discussed under *Noise Background*, a doubling of traffic is required for an audible 3 dB increase in traffic noise levels. Conservatively adding all 761 daily vehicle trips generated by the proposed project to this segment of South Grand Avenue would increase daily traffic by approximately three percent to 25,761 ADT. A 3 percent increase in traffic along South Grand Avenue would generate a less than 0.5 CNEL increase in traffic noise. Similarly, adding all 761 daily vehicle trips to the SR-55 would increase daily traffic along this freeway by less than 0.5 percent to approximately 289,360 ADT. A less than 0.5-percent increase in traffic along SR-55 would also generate a less than 0.5 CNEL increase in traffic noise. Therefore, the project would not create a perceptible 3-dBA increase in traffic noise. Noise impacts associated with off-site traffic generated by the proposed project would be less than significant.

CEQA Appendix G Noise Threshold 2 Would the proposed project generate excessive groundborne vibration or groundborne noise levels?

Groundborne Vibration

Operation of the project would not include stationary sources of significant vibration, such as heavy equipment operations. Rather, construction activities have the greatest potential to generate groundborne vibration affecting nearby receivers. Certain types of construction equipment can generate high levels of groundborne vibration. Construction of the project would potentially utilize loaded trucks, jackhammers, and/or bulldozers during most construction phases.

The City has not adopted specific standards for vibration impacts during construction. Therefore, the Caltrans Transportation and Construction Vibration Guidance Manual (2020) is used to evaluate potential construction vibration impacts related to both potential building damage and human annoyance. Based on the Caltrans criteria shown in Table 1 and Table 2, construction vibration impacts would be significant if vibration levels exceed 0.5 in./sec. PPV for residential structures and 2.0 in./sec. PPV for commercial structures, which is the limit where minor cosmetic, i.e. non-structural, damage may occur to these buildings. For the purpose of this analysis, the Ricca Children’s Learning Center is



analyzed as a residential use and vibration levels at the school building are compared against the Caltrans criteria of 0.5 in./sec. for residential structures. In addition, construction vibration impacts would cause human annoyance at nearby receivers if vibration levels exceed 0.24 in./sec. PPV, which is the limit above which temporary vibration activities become distinctly perceptible.

Because groundborne vibration could cause physical damage to structures, vibration impacts were modeled based on the distance from the location of vibration-intensive construction activities, conservatively assumed to be at edge of the project site, to the edge of nearby off-site structures. Therefore, the analysis of groundborne vibrations differs from the analysis of construction noise levels in that modeled distances for vibration impacts are those distances between the project site to nearest off-site structures (regardless of sensitivity) whereas modeled distances for construction noise impacts are based on the property line of the nearest off-site sensitive receivers. Based on the distance from the project site to nearby structures, equipment was modeled at 175 feet from Ricca Children’s Learning Center to the north¹, 75 feet from the commercial office building to the east and fast-food restaurant to the south across the SR-55 off-ramp, and 125 feet from the restaurant and commercial office building to the west across South Grand Avenue. Table 6 estimated groundborne vibration levels from project equipment. Vibration calculations are included in Attachment E.

Table 6 Vibration Levels at Structures

Equipment	in./sec. PPV		
	75 Feet	125 Feet	175 Feet
Large Bulldozer	0.027	0.015	0.011
Loaded Truck	0.023	0.013	0.009
Jack hammer	0.011	0.006	0.004
Small Bulldozer	0.001	0.001	0.001
Threshold for Building Damage¹	2.0	0.5	2.0
Threshold for Human Annoyance²	0.24	0.24	0.24
Thresholds Exceeded?	No	No	No

See Attachment E for vibration analysis worksheets.

¹See Table 1

²See Table 2.

As shown in Table 6 construction activities would generate peak vibration levels of approximately 0.03 in./sec. PPV at the nearest off-site commercial office building to the east. Therefore, according to the Caltrans vibration criteria, groundborne vibration from typical construction equipment would not exceed the applicable threshold of 2.0 in./sec. PPV for building damage at the nearby commercial buildings nor would it exceed the applicable threshold of 0.5 in./sec. PPV for building

¹ While the Learning Center’s playground is located closer to the project site at 125 north of the site (compared to 175 feet for the building), the groundborne vibration differs from the construction noise analysis in that modeled distances for vibration impacts are those distances between the project site to nearest off-site structures, or buildings, to assess the potential for building damage.



damage at the Ricca Children’s Learning Center. Furthermore, groundborne vibration would not exceed the threshold of 0.24 in./sec. PPV for human annoyance at any of the modeled distances. Project construction would not result in groundborne vibration that would cause building damage or human annoyance. Vibration impacts would be less than significant.

CEQA Appendix G Noise Threshold 3 For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the proposed project expose people residing or working in the project area to excessive noise levels?

Airport Noise

The airport closest to the project site is the John Wayne Airport (located approximately 2.15 miles southwest of the site. According to the Orange County Airport Land Use Commission (ALUC) Land Use Plan for the John Wayne Airport, the site is located within the airport’s 60 CNEL noise contour (Orange County ALUC 2008). However, as discussed under *Land Use Compatibility*, an exterior noise level up to 65 CNEL is acceptable for residential² land uses. Although the project would potentially be subject to occasional aircraft overflight noise, such occurrences would be intermittent and temporary. In addition, there are no private airstrips in the vicinity of the project site. Therefore, the project would not expose people living or working in the project area to excessive noise levels associated with airports or airstrips and the project would not exacerbate existing noise conditions related to airports or airstrips. Impacts would be less than significant.

² The SAMC noise standards do not explicitly characterize noise exposure levels for hotel use. Therefore, for the purpose of this analysis, the proposed hotel is considered a residential use and noise exposure levels for a residential land use is used to characterize compatible noise exposure levels due to the hotel’s inclusion of living quarters and sleeping areas.



Conclusions and Recommendations

Project construction would result in temporary noise and vibration; however, based on the analysis, construction-related noise and vibration levels would be below the Caltrans and FTA thresholds. Furthermore, the project does not include any substantial vibration sources associated with operation. Therefore, the project would not expose local receivers to excessive noise and vibration levels and impacts would be less than significant.

Off-site traffic noise impacts and on-site operational noise impacts would be less than significant. Therefore, the project would result in a less than significant permanent increase in ambient noise levels due to project operation. Furthermore, the project would not expose people residing or working in the project area to excessive noise levels from aircraft noise and the proposed project. While the project would be exposed to exterior noise exceeding City standards for residences, implementation of the identified sound insulation feature would achieve interior noise levels in habitable guest rooms that are consistent with state and City standards.

Sincerely,
Rincon Consultants, Inc.

A handwritten signature in blue ink, appearing to read "Kari Zajac".

Kari Zajac, MESM
Project Manager

A handwritten signature in blue ink, appearing to read "Joe Power".

Joe Power
Principal

Attachments

- Attachment A – Project Site Plan
- Attachment B – Noise Measurement Results
- Attachment C – Roadway Construction Noise Model Results
- Attachment D – Traffic Noise Prediction Model Results
- Attachment E – Vibration Analysis

Reference List

- California Department of Transportation (Caltrans). 2013a. Technical Noise Supplement to the Traffic Noise Analysis Protocol. (CT-HWANP-RT-13-069.25.2) https://www.dtsc-ssfl.com/files/lib_ceqa/ref_draft_peir/Chap4_10-Noise/Caltrans_2013a_Tech_Noise_Supplement.pdf (accessed May 2020).
- _____. 2017. 2017 Traffic Volumes: Routes 51-59. <https://dot.ca.gov/programs/traffic-operations/census/traffic-volumes/2017/route-51-59> (accessed May 2020).
- _____. 2020. Transportation and Construction Vibration Guidance Manual CT-HWANP-RT-20-365.01.01. <https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf> (accessed May 2020).
- Crocker, Malcolm J. Crocker (Editor). 2007. Handbook of Noise and Vibration Control Book, ISBN: 978-0-471-39599-7, Wiley-VCH, October.
- Federal Highway Administration (FHWA). 2006. FHWA Highway Construction Noise Handbook. (FHWAHEP-06-015; DOT-VNTSC-FHWA-06-02). https://rosap.ntl.bts.gov/view/dot/8837/dot_8837_DS1.pdf? (accessed May 2020).
- _____. 2011. Highway Traffic Noise: Analysis and Abatement Guidance (FHWA-HEP-10-025). https://www.fhwa.dot.gov/environment/noise/regulations_and_guidance/analysis_and_abatement_guidance/revguidance.pdf (accessed May 2020).
- Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf (accessed May 2020).
- Jano Baghdanian & Associates (JBA). 2019. Traffic Impact Study. Document.
- _____. 2020. Traffic Analysis Update. Document.
- Los Angeles, City of. 2014. Palladium Residences Environmental Impact Report. https://planning.lacity.org/eir/PalladiumResidences/DEIR/DEIR/4.I_Noise.pdf (accessed May 2020).
- Orange County Airport Land Use Commission (ALUC). 2008. John Wayne Airport Land Use Plan. https://www.ocair.com/commissions/aluc/docs/JWA_AELUP-April-17-2008.pdf (accessed May 2020).
- Santa Ana, City of. 2010. General Plan Noise Element. <https://www.santa-ana.org/sites/default/files/pb/general-plan/documents/new-elements/Noise.pdf> (accessed May 2020).

Attachment A

Project Site Plan

PROJECT SUMMARY

SCOPE OF WORK:

CONSTRUCTION OF A NEW 82'-0" HEIGHT 6 STORY BUILDING WITH 110 SUITS AND ROOF TOP LOUNGE.

CODE ANALYSIS:

USE: HOTEL / COMMERCIAL
 29-5-9: SD-8 - Specific Development
 LOT SIZE: 123,042.5 SQ.FT. (2.82 ACRES)
 OCCUPANCY GROUP: R-1
 CONSTRUCTION TYPE: TYPE I-A 1ST FLOOR AND V-A 2ND TO 5TH FLOOR (FULLY SPRINKLER)
 PROPOSED HEIGHT: 6 STORIES, 82'-0"
 SPRINKLED: YES

FAR: HOTEL (74,315 S.F.) + RESTAURANT (2,000 S.F.) = 81,315 SQ.FT.
 81,315/123,042.5 = .66

LOT COVERAGE: HOTEL (4,000 S.F.) + RESTAURANT (2,000 S.F.) = 6,000 SQ.FT.
 6,000/123,042.5 = 4.9%

BUILDING AREAS	GUEST ROOMS	FLOOR AREA
1ST FLOOR	0 KEYS	13,355 SQ.FT.
2ND FLOOR	26 KEYS	13,400 SQ.FT.
3RD FLOOR	28 KEYS	13,400 SQ.FT.
4TH FLOOR	28 KEYS	13,400 SQ.FT.
5TH FLOOR	28 KEYS	12,910 SQ.FT.
6TH FLOOR	28 KEYS	12,910 SQ.FT.
TOTAL		74,315 SQ.FT.
ROOF DECK AREA:		7,454 sq.ft.

PARKING ANALYSIS:

SURFACE PARKING WITH TOTAL OF 176 PARKING SPACES AND 12 BICYCLE SPACE.

PARKING SPACES	H/C SPACE	STAN. SPACE	TOTAL
SURFACE	6	136	142
TOTAL PARKING			142

LANDSCAPE AREA:

GROUND FLOOR: = 33,423 S.F. / 123,042.5 SQ.FT. = .275 = 28%
 2ND FLOOR: = 200 S.F.
 ROOF DECK: = 422 S.F.
 TOTAL LANDSCAPE AREA = 34,545 S.F.

CONSTRUCTION TYPE PER TABLE 503, 2016 CBC:

R-1 TYPE I-B (FULLY SPRINKLER)

OCCUPANCY SEPARATION PER TABLE 508.4, 2016 CBC

GROUP A-2 AND R-1 = 1 HR

OCCUPANT LOAD PER TABLE 1004.1.2:

SPACE	AREA	OCCUPANTS
LOBBY	1,200 SQ.FT. / 100 =	12 OCCUPANTS
BAR / LOUNGE	668 SQ.FT. / 15 =	45 OCCUPANTS
HOTEL RESTAURANT	1,400 SQ.FT. / 15 =	126 OCCUPANTS
KITCHEN	1,080 SQ.FT. / 200 =	5 OCCUPANTS
MEETING ROOM #1	546 SQ.FT. / 15 =	36 OCCUPANTS
MEETING ROOM #2	542 SQ.FT. / 15 =	36 OCCUPANTS
MEETING ROOM #3	546 SQ.FT. / 15 =	36 OCCUPANTS
MEETING/LOUNGE	633 SQ.FT. / 15 =	42 OCCUPANTS
OFFICES, LAUNDRY, STORAGE	5,843 SQ.FT. / 200 =	29 OCCUPANTS
BREAK ROOM	302 SQ.FT. / 15 =	20 OCCUPANTS
TOTAL	13,360 SQ.FT.	340 OCCUPANTS

SPACE	AREA	OCCUPANTS
GYM	820 SQ.FT. / 50 =	16 OCCUPANTS
SPA	1,106 SQ.FT. / 100 =	11 OCCUPANTS
POOL	486 SQ.FT. / 50 =	10 OCCUPANTS
POOL DECK	2,400 SQ.FT. / 15 =	160 OCCUPANTS
TOTAL	4,812 SQ.FT.	197 OCCUPANTS

SPACE	AREA	OCCUPANTS
GROUP "R-1"	10,626 SQ. FT. / 200 =	53 OCCUPANTS
2ND FLOOR	13,400 SQ. FT. / 200 =	67 OCCUPANTS
3RD FLOOR	13,400 SQ. FT. / 200 =	67 OCCUPANTS
4TH FLOOR	13,400 SQ. FT. / 200 =	67 OCCUPANTS
5TH FLOOR	12,910 SQ. FT. / 200 =	65 OCCUPANTS
6TH FLOOR	12,910 SQ. FT. / 200 =	65 OCCUPANTS
TOTAL	63,246 SQ. FT.	317 OCCUPANTS

SPACE	AREA	OCCUPANTS
ROOF DECK	5,564 SQ. FT. / 15 =	371 OCCUPANTS
HALLWAYS, STORAGE, RESTROOMS	1,845 SQ.FT. / 200 =	9 OCCUPANTS
TOTAL	7,409 SQ.FT.	380 OCCUPANTS

ALLOWABLE FLOOR AREA PER CHAPTER 5, 2016 CBC:

R-1 (1ST-6TH) TYPE I-B = UL / 12 STORIES > 74,315 SQ. FT.
 A-2 (ROOF DECK) TYPE I-B = UL / 12 STORIES > 7,454 SQ. FT.

ALLOWABLE HEIGHT AND NUMBER OF STORIES PER CHAPTER 5, 2016 CBC:

EACH SEPARATED OCCUPANCY SHALL COMPLY WITH THE BUILDING HEIGHT LIMITATIONS BASED ON THE TYPE OF CONSTRUCTION OF THE BUILDING IN ACCORDANCE WITH SEC. 503.1 THEREFOR: 6 STORIES OCCUPANCY R-1 TYPE "I-B" AND ROOF DECK WITHIN ALLOWABLE LIMITS PER ANALYSIS PROVIDED ABOVE.

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE PER TABLE 602, 2016 CBC

FSD	FOR R-1 IN TYPE I-B
X < 5'	I
5' < X < 10'	I
10' < X < 30'	I
X > 30'	0

EXIT ACCESS STAIRWAYS PER 2016 CBC

SEC. 1011.2 - ONE STAIRWAY SHALL EXTENDED TO THE ROOF SURFACE.

SEC. 1023.2 - EXIT ACCESS STAIRWAY ENCLOSURES SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 2HR.

EXIT ANALYSIS PER CHAPTER 10, 2016 CBC:

	STAIR EGRESS CALCULATIONS								
	EXITS			EXIT			STAIR		
	#1 OCCUPANTS	#2 OCCUPANTS	WIDTH FACTOR	REQ'D WIDTH	PROVIDED WIDTH	WIDTH FACTOR	REQ'D WIDTH	PROVIDED WIDTH	
1ST FLOOR	40	40	0.15	6	60	0.2	8	48	
2ND FLOOR	40	40	0.15	6	60	0.2	8	48	
3RD FLOOR	33	34	0.15	5.1	48	0.2	6.8	48	
4TH FLOOR	33	34	0.15	5.1	48	0.2	6.8	48	
5TH FLOOR	32	33	0.15	4.45	36	0.2	6.6	48	
6TH FLOOR	32	33	0.15	4.45	36	0.2	6.6	48	
ROOF FLOOR	140	140	0.15	28.5	36	0.2	38	48	

PLUMBING OCCUPANCY CALCULATIONS				
ROOM	USE	AREA	LOAD FACTOR	OCCUPANCY
FITNESS / GYM	A-2	820	30	27
MEETING ROOM	A-2	2,317	30	77
BAR / LOUNGE	A-2	668	30	22
BUSINESS CENTER	A-2	319	30	10.6
KITCHEN, SERVING AREA	B	1,080	200	5.4
OFFICES	B	710	200	3.85
EMPLOYEE ROOM	B	300	200	1.5

MINIMUM PLUMBING FACILITIES PER TABLE 422.1, CHAPTER 4, 2016 CBC

SPACE	OCCUPANCY	REQUIRED FIXTURES						PROPOSED FIXTURES										
		WATER CLOSET		LAV.		URINALS	WATER CLOSET		LAV.		URINALS							
		M	F	M	F	MALE	M	F	M	F	MALE							
FITNESS / GYM	16	M-9	F-1															
COMMON AREA	12	M-22	F-22															
EMPLOYEE	9																	

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)										
BUILDING ELEMENT	TYPE I		TYPE II		TYPE III		TYPE IV		TYPE V	
	A	B	A ^a	B	A ^a	B	HT	A ^a	B	
Primary structural frame ^a (see Section 202)	3 ^a	2 ^a	1	0	1	0	HT	1	0	
Bearing walls										
Exterior ^a	3	2	1	0	2	2	2	1	0	
Interior	3 ^a	2 ^a	1	0	1	0	1/HT	1	0	
Nonbearing walls and partitions	See Table 602									
Exterior										
Nonbearing walls and partitions	0	0	0	0	0	0	See Section 602.4.6	0	0	
Interior ^a										
Floor construction and associated secondary members (see Section 202)	2	2	1	0	1	0	HT	1	0	
Roof construction and associated secondary members (see Section 202)	1 1/2	1 ^{b,c}	1 ^{b,c}	0 ^a	1 ^{b,c}	0	HT	1 ^{b,c}	0	

For St. 1 foot = 304.8 mm.
 a. Roof supports: Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.
 b. Except in Group A, E, F-1, H, I, L, M, R-1, R-2, R-2.1 and S-1 occupancies, high-rise buildings, and other applications listed in Section 1.11 regulated by the Office of the State Fire Marshal, fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.
 b.2 For Group A, E, I, L, R-1, R-2 and R-2.1 occupancies, high-rise buildings, and other applications listed in Section 1.11 regulated by the Office of the State Fire Marshal, fire protection of members other than the structural frame shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.
 b.3 For one-story portions of Group A and E assembly occupancies the roof-framing system of Type II A or Type III A construction may be of unprotected construction when such roof-framing system is open to the assembly area and does not contain concealed spaces.
 c. In all occupancies, heavy timber shall be allowed where a 1-hour or less fire-resistance rating is required.
 d. An approved automatic sprinkler system in accordance with Section 903.3.1.1 shall be allowed to be substituted for 1-hour fire-resistance-rated construction, provided such system is not otherwise required by other provisions of the code or used for an allowable area increase in accordance with Section 506.3 or an allowable height increase in accordance with Section 504.2. The 1-hour substitution for the fire resistance of exterior walls shall not be permitted.
 e. Not less than the fire-resistance rating required by other sections of this code.
 f. Not less than the fire-resistance rating based on fire separation distance (see Table 602).
 g. Not less than the fire-resistance rating as referenced in Section 704.10

Table IIB-224.2 Guest Rooms with Mobility Features

Total Number of Guest Rooms Provided	Minimum Number of Required Rooms Without Roll-in Showers	Minimum Number of Required Rooms With Roll-in Showers	Total Number of Required Rooms
1 to 25	(begin underline) 0 (end underline) (begin strikeout) 1 (end strikeout)	(begin underline) 1 (end underline) (begin strikeout) 0 (end strikeout)	1
26 to 50	(begin underline) 1 (end underline) (begin strikeout) 2 (end strikeout)	(begin underline) 1 (end underline) (begin strikeout) 0 (end strikeout)	2
51 to 75	3	1	4
76 to 100	4	1	5
101 to 150	5	2	7
151 to 200	6	2	8
201 to 300	7	3	10
301 to 400	8	4	12
401 to 500	9	4	13
501 to 1000	2 percent of total	1 percent of total	3 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000	10, plus 1 for each 100, or fraction thereof, over 1000	30, plus 2 for each 100, or fraction thereof, over 1000

Table IIB-224.4 Guest Rooms with Communication Features

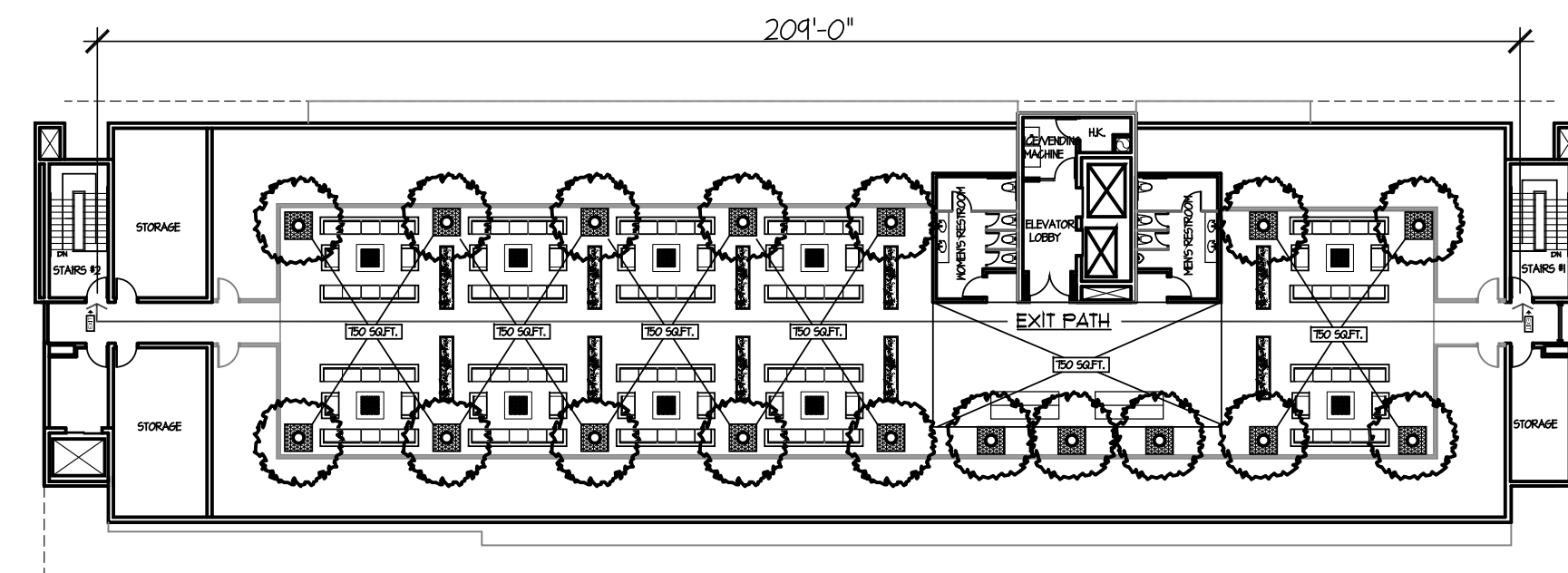
Total Number of Guest Rooms Provided With Communication Features	Minimum Number of Required Guest Rooms
2 to 25	2
26 to 50	4
51 to 75	7
76 to 100	9
101 to 150	12
151 to 200	14
201 to 300	17
301 to 400	20
401 to 500	22
501 to 1000	5 percent of total
1001 and over	50, plus 3 for each 100 over 1000

CALCULATION FOR PROVIDED ROOMS PER ADA STANDARDS FOR ACCESSIBLE DESIGN PER TABLE 224.2 AND 224.4

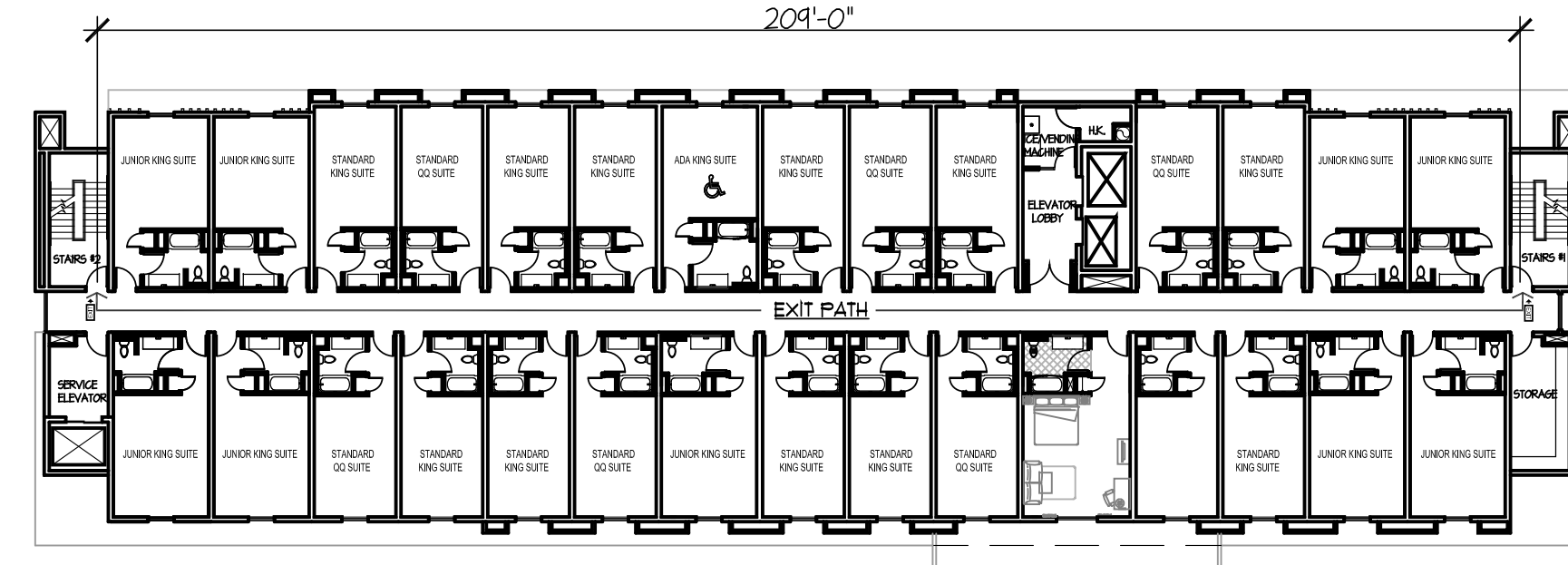
TOTAL NUMBER OF GUEST ROOMS = 85
 TOTAL PROVIDED GUEST ROOMS WITH MOBILITY FEATURES = 5 > REQUIRED 5
 4 WITHOUT ROLL IN SHOWER ONE WITH ROLL IN SHOWER
 PROVIDED GUEST ROOMS WITH HEARING AID COMPATIBLE = 4 = REQUIRED 4

Table IIB-208.2 PARKING SPACES

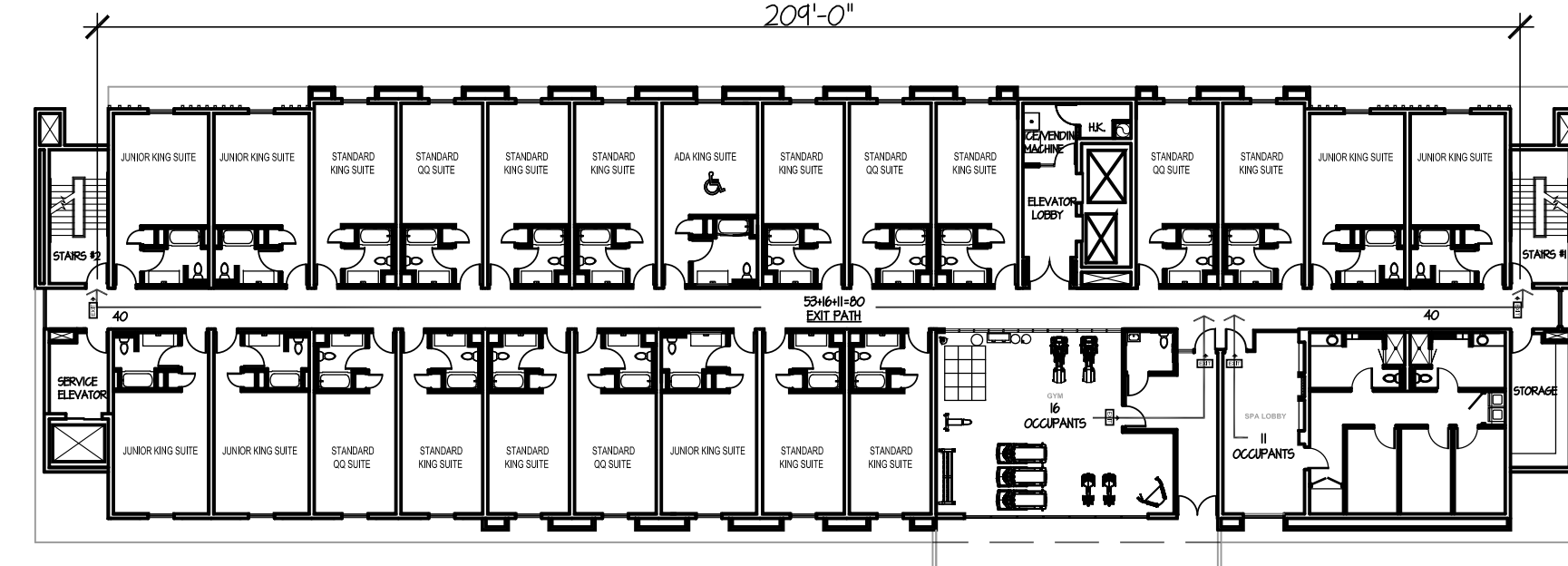
Total Number of parking spaces provided in parking facility	Minimum Number of required accessible parking spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 of each 100, or fraction thereof, over 1000



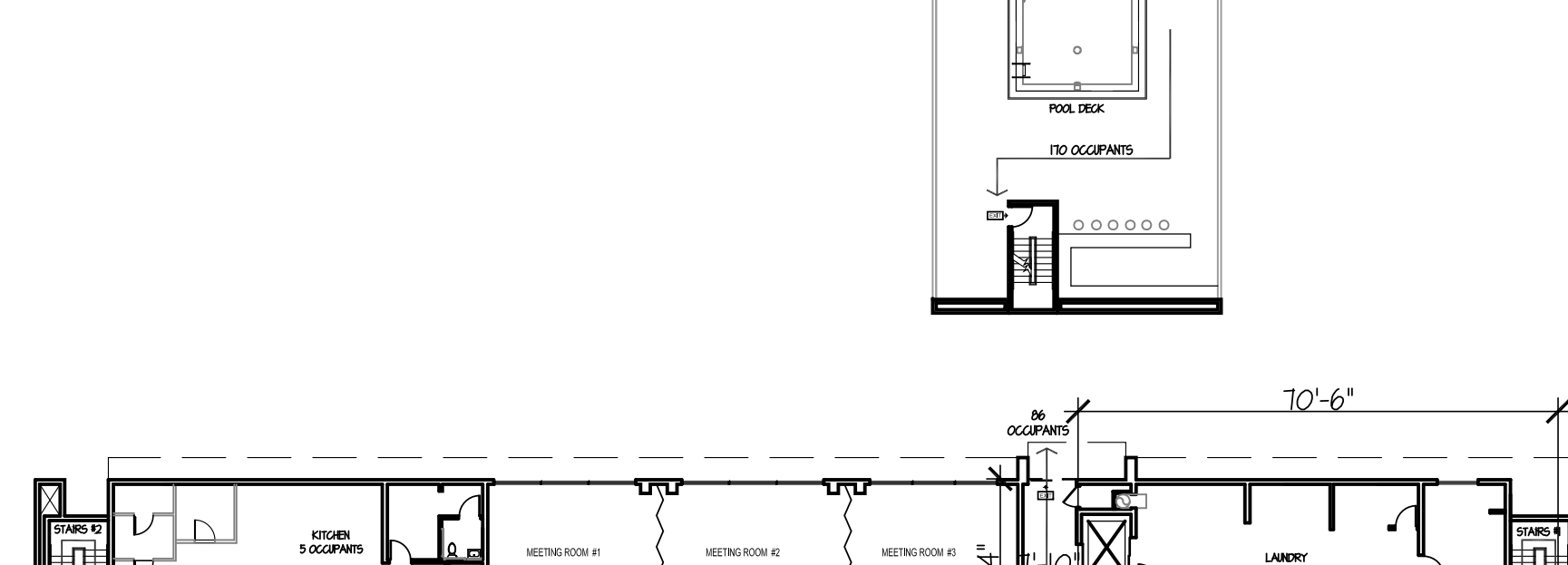
4 ROOF DECK PLAN SCALE: N/A



3 3RD TO 6TH FLOOR PLAN SCALE: N/A



2 2ND FLOOR PLAN SCALE: N/A



1 1ST FLOOR PLAN SCALE: N/A

THE ABOVE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT AND NO PART THEREOF SHALL BE COPIED, REPRODUCED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS AND SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF THESE RESTRICTIONS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH THE FABRICATION.



Alajajian Marcoosi Architects Inc.
 320 W. Arden Ave. Suite 120
 Glendale, CA 91203
 Phone: (818) 244-5130
 Fax: (818) 551-1613
 E-mail: aram@amaincs.com

Owner:
MODA HOTELS, LLC

Owner Address:
17510 PIONEER BLVD. #221-A ARTESIA, CA 90701

Project Name:
TAPESTRY BY HILTON

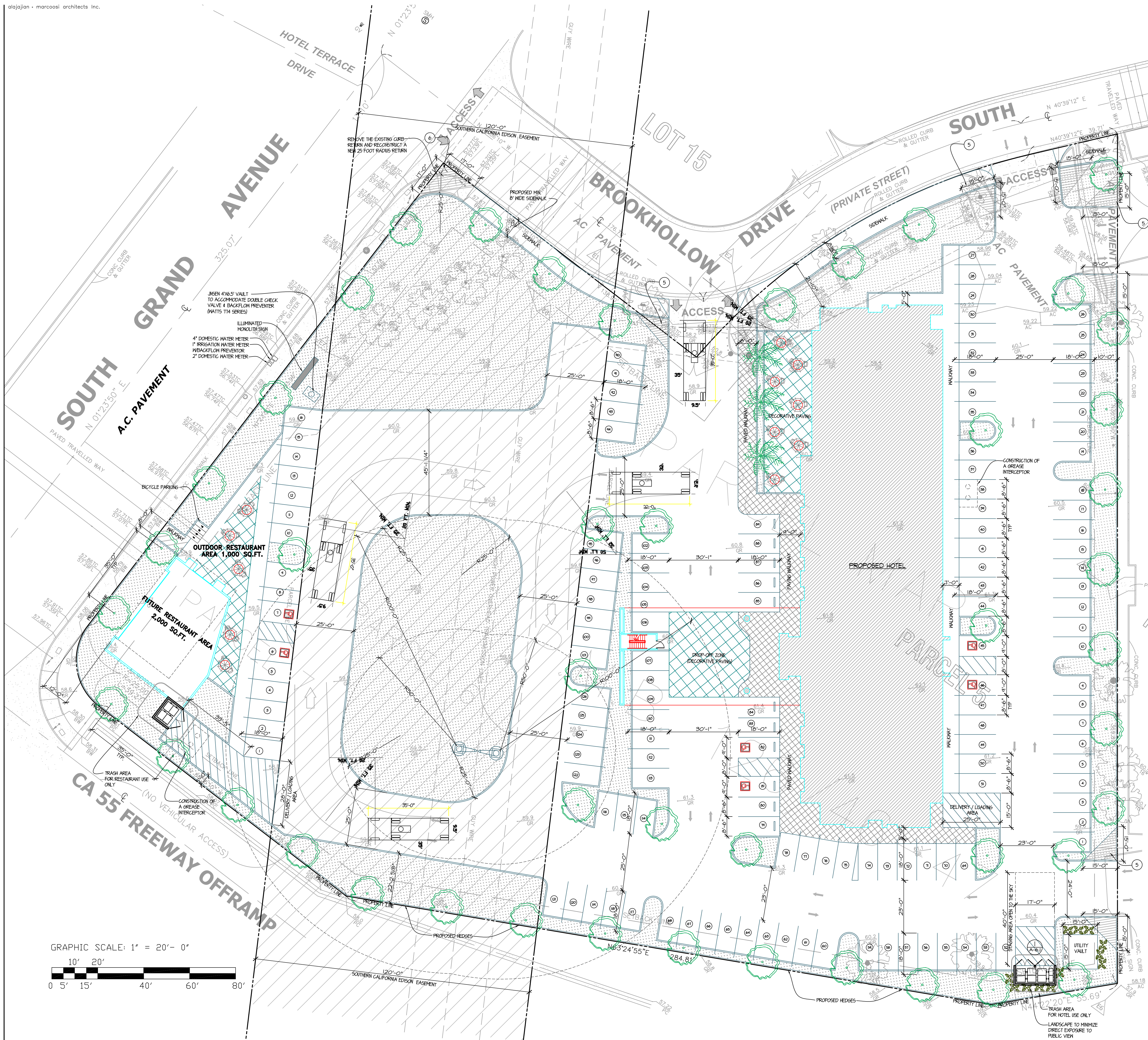
Project Address:
1580 EAST WARNER AVE. SANTA ANA

CODE ANALYSIS

Scale: N/A

- APPROVED
- APPROVED
- REVISION
- REVISION
- REVISION
- DRAWN BY
- PRINT DATE
- JOB NO
- SHEET NO

A-0.2



NOTE:

- INSTALLATION OF 24" BOX STREET TREES AT 35' ON CENTER ON GRAND AVENUE, INCLUDING DEEP ROOT IRRIGATION SYSTEMS, PER CITY STANDARDS.
 - INSTALL 24-INCH BOX STREET TREES PER THE CITY STANDARDS AND APPROVED PLAN, AS NEEDED.
- THE INSTALLATION OF ALL PUBLIC UTILITIES REQUIRED TO SERVICE THE PROJECT SITE (I.E., NEW SEWER LATERAL, WATER LATERALS, AND STORM DRAIN).
- THE PROPOSED PROJECT TO BE SERVED BY INDIVIDUAL PUBLIC WATER METERS FOR EACH AND EVERY SEPARATE COMMERCIAL/RETAIL AREA, AND FOR THE LANDSCAPE AREA. A PUBLIC METER TO BE PROPERLY SIZED AND TO BE PLACED AT THE PROJECT'S FRONTAGE IN PUBLIC RIGHT-OF-WAY.
- GREASE INTERCEPTOR MUST COMPLY WITH THE CITY'S ORDINANCE NO. NS 26-10.

NOTE: ALL NEW FOOD SERVICE ESTABLISHMENTS SHALL COMPLY WITH THE CITY'S ORDINANCE NO. NS-26-10, FOR FAT, OIL, AND GREASE (FOG) CONTROL PROGRAM, AND ITS SUBSEQUENT REQUIREMENT FOR CONSTRUCTION OF A GRAVITY GREASE INTERCEPTOR. DEVELOPER SHALL CONTACT CITY'S PLANNING AND BUILDING DEPARTMENT TO INCORPORATE DESIGN OF THE REQUIRED GREASE INTERCEPTOR OF ADEQUATE SIZE, INTO THE PROJECT'S PLUMBING PLANS, AND TO DETERMINE AN APPROPRIATE LOCATION FOR IT WITHIN THE PROJECT SITE

- 15' X 15' SIGHT DISTANCE TRIANGLE AREA AT THE VEHICULAR ACCESS LOCATIONS
- NO PROPOSED SIGNS ARE LOCATED WITHIN REQUIRED TRIANGLE VISIBILITY AREAS AT STREET AND/OR DRIVEWAY INTERSECTIONS.
- 17'X17' CORNER CUT-OFF DEDICATION AT THE SOUTHEAST CORNER OF GRAND AVE. AND BROOKHOLLOW DRIVE.
- REPLACEMENT OF THE CURB RAMP AT THE SOUTHWEST CORNERS OF GRAND AVE. AND BROOKHOLLOW Dr. PER CITY OF SANTA ANA STANDARD PLAN #1122.
- THE CONSTRUCTION OF FULL DEPTH ASPHALT CONCERT FOR THE CURB LANE, NORTH BOUND, ALONG THE ENTIRE PROPERTY FRONTAGE.
- GRINDING AND CAPPING MINIMUM OF 2 INCH OF THE EXISTING AC PAVEMENT LEFT TURN LANE, SOUTH BOUND, TO ENTER THE PROJECT SITE.
- ALL TRAFFIC IMPACT ANALYSIS (TIA) RECOMMENDATIONS WILL BE IMPLEMENTED PRIOR TO THE BUILDING PERMIT, SOLELY AT THE DEVELOPER'S EXPENSE.
- A LOT MERGER APPLICATION WILL BE SUBMITTED FOR REVIEW.

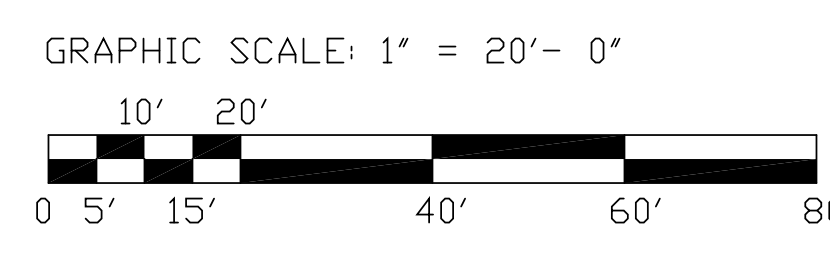
PROPOSED IMPROVEMENTS:
ALL IMPROVEMENT AS SHOWN HEREON TO BE CONSTRUCTED AND INSTALLED AT EXPENSE IN ACCORDANCE WITH THE CITY DESIGN STANDARDS AND SPECIFICATIONS, THE SANTA ANA MUNICIPAL CODE, APPROVED STREET IMPROVEMENT PLANS AND THE REQUIREMENTS OF THE STATE SUBDIVISION MAP ACT.

- ALL TRAFFIC IMPACT ANALYSIS (TIA) RECOMMENDATION(S) WILL BE IMPLEMENTED PRIOR TO THE BUILDING PERMIT, SOLELY AT THE DEVELOPER'S EXPENSE.
- THIS SITE WILL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SANTA ANA REGIONAL ORDER NO. 189-2004-0030 DISCHARGE REQUIREMENTS (M64 PERMIT), & CONTACT MINDY LY (714) 647-5665 FOR ADDITIONAL INFORMATION.
- ANY EXISTING SEWER LATERAL(S) SERVING THE PROJECT SITE SHALL BE PROPERLY CAPPED AND ABANDONED AT THE PROPERTY LINE. CONTACT MIR FATAHI, AT (714) 647-5038 FOR ASSISTANCE.

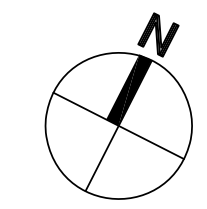
POLICE DEPARTMENT:
ALL STRUCTURES AND PARKING LOTS COMPLY WITH THE PROVISIONS OF CHAPTER 8, ARTICLE 11, DIVISION 3 OF THE SANTA ANA MUNICIPAL CODE (BUILDING SECURITY ORDINANCE). ALL APPLICABLE SECTIONS MUST BE PRINTED VERBATIM ON THE SET OF PLANS.

NOTES FOR EFFICIENT ACCESS OF TRASH VEHICLES TO TRASH RECEPTACLES:

- MINIMUM 40FOOT BY 16 FOOT WIDE STAGING AREA SHALL BE AVAILABLE ON SERVICE DAYS FROM 6 A.M. TO 6 P.M.
- MINIMUM VERTICAL CLEARANCE OF 25 FEET AT THE STAGING AREA FOR BIN SERVICE CLEARANCE.
- MINIMUM 13 FEET VERTICAL CLEARANCE FOR SCOUT TRUCK
- ALL STAGING AREAS TO BE ONSITE. NO STREET STAGING IS PERMITTED
- ALL DRIVEWAY AND STAGING AREAS MUST BE ABLE TO SUSTAIN A MINIMUM GROSS WEIGHT OF 60,000 LBS. PER VEHICLE.
- MAXIMUM SIZE BIN SHALL BE 4 CUBIC YARDS.
- MAXIMUM NUMBER OF PICK-UPS IS 2 TIMES PER WEEK FOR RESIDENTIAL PROJECTS ONLY.
- BACKING UP INTO THE STREET IS NOT ALLOWED FOR SAFETY REASONS.
 - MINIMUM 40' X 16' WIDE STAGING AREA AVAILABLE ON SERVICE DAYS FROM 6AM TO 6PM
 - MINIMUM VERTICAL CLEARANCE OF 25' AT STAGING AREA FOR BIN SERVICE CLEARANCE
 - MINIMUM 12'24" VERTICAL CLEARANCE FOR SCOUT TRUCK (IF APPLICABLE)
 - ELIMINATE ALL BACKING. 3 POINT TURNS MAY BE PERMISSIBLE AT THE DISCRETION OF THE CITY
 - ALL DRIVEWAY AND STAGING AREAS MUST BE ABLE TO CARRY A MINIMUM OF 60,000-POUND GROSS VEHICLE WEIGHT.
 - DEFLECT TRASH TRUCKS TURNING RADIUS ON ALL PROPOSED INTERNAL CORNERS
 - 42' ON A 40-DEGREE TURN RADIUS
 - MINIMUM 11'6" LANE WIDTH FOR TURN RADIUS
 - FOR ROLL OUT SERVICE THE DESIRED PATH OF TRAVEL FOR THE BIN MUST BE LEVEL WITH NO "LIPS" OR MAJOR ELEVATION CHANGES
 - (COMMERCIAL) MINIMUM ONE TIME A WEEK SERVICE ADEQUATE FOR ALL WASTE TO BE CONTAINED WITHIN THE BINS. ADJUSTMENTS TO THE NUMBER OF YARDS REQUIRED FOR SERVICE ARE AT THE DISCRETION OF THE CITY AND WASTE MANAGEMENT
 - ENCLOSURE MUST BE BIG ENOUGH TO HOLD MINIMUM NUMBER OF REQUIRED BINS THAT ARE 7' X 4' X 4' EACH PLUS ENOUGH ROOM TO MANUEVER BIN
 - MAX SIZE BIN 4 CUBIC YARDS.
 - MAX NUMBER OF PICKUP IS 2 TIMES PER WEEK
 - (RESIDENTIAL MULTI FAMILY) 0.5 YARDS OF COMBINED SOLID WASTE AND RECYCLE BIN SERVICE PER WEEK PER RESIDENCE
 - (RESIDENTIAL) EACH HOME WILL BE REQUIRED TO HAVE A MINIMUM OF 1 96GALLON CART FOR EACH COMMODITY; TRASH, RECYCLE, AND GREEN WASTE



1 SITE PLAN
SCALE: 1"=20'-0"



THE ABOVE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT, AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS AND SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF THESE RESTRICTIONS. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS; CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH THE FABRICATION.



**Alajajian
Marcoosi
Architects Inc.**
320 W. Arden Ave. Suite 120
Glendale, CA 91203
Phone: (818) 244-5130
Fax: (818) 551-1613
E-mail: aram@amainc.com

Owner:
MODA HOTELS, LLC

Owner Address:
**17510 PIONEER BLVD. #221-A
ARTESIA, CA 90701**

Project Name:
**TAPESTRY BY
HILTON**

Project Address:
**1580 EAST WARNER AVE.
SANTA ANA**

SITE PLAN

Scale: 1"=20'-0"

- APPROVED
- APPROVED
- REVISION
- REVISION
- REVISION
- DRAWN BY
- PRINT DATE
- JOB NO
- SHEET NO

A-11

Attachment B

Noise Measurement Results

Freq Weight : A
Time Weight : FAST
Level Range : 40-100
Max dB : 79.6 - 2019/01/03 07: 16: 43
Level Range : 40-100
SEL : 99.5
Leq : 70.0

No. s	Date Time	(dB)
1	2019/01/03 07: 15: 13	74.2
2	2019/01/03 07: 15: 14	75.5
3	2019/01/03 07: 15: 15	76.9
4	2019/01/03 07: 15: 16	76.5
5	2019/01/03 07: 15: 17	77.3
6	2019/01/03 07: 15: 18	77.4
7	2019/01/03 07: 15: 19	77.8
8	2019/01/03 07: 15: 20	76.7
9	2019/01/03 07: 15: 21	77.1
10	2019/01/03 07: 15: 22	74.3
11	2019/01/03 07: 15: 23	74.2
12	2019/01/03 07: 15: 24	73.5
13	2019/01/03 07: 15: 25	72.8
14	2019/01/03 07: 15: 26	72.8
15	2019/01/03 07: 15: 27	72.1
16	2019/01/03 07: 15: 28	71.5
17	2019/01/03 07: 15: 29	71.6
18	2019/01/03 07: 15: 30	71.5
19	2019/01/03 07: 15: 31	71.5
20	2019/01/03 07: 15: 32	70.9
21	2019/01/03 07: 15: 33	70.8
22	2019/01/03 07: 15: 34	71.9
23	2019/01/03 07: 15: 35	71.1
24	2019/01/03 07: 15: 36	71.0
25	2019/01/03 07: 15: 37	71.6
26	2019/01/03 07: 15: 38	71.5
27	2019/01/03 07: 15: 39	71.4
28	2019/01/03 07: 15: 40	71.3
29	2019/01/03 07: 15: 41	71.9
30	2019/01/03 07: 15: 42	73.1
31	2019/01/03 07: 15: 43	72.8
32	2019/01/03 07: 15: 44	72.9
33	2019/01/03 07: 15: 45	72.6
34	2019/01/03 07: 15: 46	71.5
35	2019/01/03 07: 15: 47	70.8
36	2019/01/03 07: 15: 48	71.4
37	2019/01/03 07: 15: 49	71.8
38	2019/01/03 07: 15: 50	71.1
39	2019/01/03 07: 15: 51	70.5
40	2019/01/03 07: 15: 52	70.5
41	2019/01/03 07: 15: 53	70.2
42	2019/01/03 07: 15: 54	70.8
43	2019/01/03 07: 15: 55	72.9
44	2019/01/03 07: 15: 56	78.0
45	2019/01/03 07: 15: 57	71.6
46	2019/01/03 07: 15: 58	71.4
47	2019/01/03 07: 15: 59	70.5
48	2019/01/03 07: 16: 00	70.7
49	2019/01/03 07: 16: 01	70.5
50	2019/01/03 07: 16: 02	71.0
51	2019/01/03 07: 16: 03	71.3
52	2019/01/03 07: 16: 04	70.9
53	2019/01/03 07: 16: 05	71.6
54	2019/01/03 07: 16: 06	70.9
55	2019/01/03 07: 16: 07	71.1
56	2019/01/03 07: 16: 08	71.5
57	2019/01/03 07: 16: 09	71.2
58	2019/01/03 07: 16: 10	71.8
59	2019/01/03 07: 16: 11	70.9
60	2019/01/03 07: 16: 12	71.0
61	2019/01/03 07: 16: 13	70.6
62	2019/01/03 07: 16: 14	70.5
63	2019/01/03 07: 16: 15	70.3
64	2019/01/03 07: 16: 16	70.3
65	2019/01/03 07: 16: 17	70.2
66	2019/01/03 07: 16: 18	71.6
67	2019/01/03 07: 16: 19	72.1
68	2019/01/03 07: 16: 20	72.5
69	2019/01/03 07: 16: 21	72.5
70	2019/01/03 07: 16: 22	72.1
71	2019/01/03 07: 16: 23	70.9
72	2019/01/03 07: 16: 24	70.8
73	2019/01/03 07: 16: 25	71.8
74	2019/01/03 07: 16: 26	73.0
75	2019/01/03 07: 16: 27	72.0
76	2019/01/03 07: 16: 28	72.9
77	2019/01/03 07: 16: 29	73.4
78	2019/01/03 07: 16: 30	72.9
79	2019/01/03 07: 16: 31	72.7
80	2019/01/03 07: 16: 32	73.9
81	2019/01/03 07: 16: 33	73.8
82	2019/01/03 07: 16: 34	74.8
83	2019/01/03 07: 16: 35	74.7
84	2019/01/03 07: 16: 36	74.8
85	2019/01/03 07: 16: 37	75.5

86	2019/01/03	07:16:38	75.7
87	2019/01/03	07:16:39	76.2
88	2019/01/03	07:16:40	77.9
89	2019/01/03	07:16:41	77.9
90	2019/01/03	07:16:42	77.1
91	2019/01/03	07:16:43	78.9
92	2019/01/03	07:16:44	76.2
93	2019/01/03	07:16:45	74.9
94	2019/01/03	07:16:46	74.3
95	2019/01/03	07:16:47	73.5
96	2019/01/03	07:16:48	73.1
97	2019/01/03	07:16:49	73.4
98	2019/01/03	07:16:50	73.3
99	2019/01/03	07:16:51	74.3
100	2019/01/03	07:16:52	73.2
101	2019/01/03	07:16:53	71.7
102	2019/01/03	07:16:54	71.0
103	2019/01/03	07:16:55	70.7
104	2019/01/03	07:16:56	70.1
105	2019/01/03	07:16:57	70.6
106	2019/01/03	07:16:58	70.5
107	2019/01/03	07:16:59	70.2
108	2019/01/03	07:17:00	71.1
109	2019/01/03	07:17:01	71.4
110	2019/01/03	07:17:02	70.1
111	2019/01/03	07:17:03	69.5
112	2019/01/03	07:17:04	70.5
113	2019/01/03	07:17:05	69.9
114	2019/01/03	07:17:06	69.8
115	2019/01/03	07:17:07	70.4
116	2019/01/03	07:17:08	69.5
117	2019/01/03	07:17:09	70.7
118	2019/01/03	07:17:10	70.6
119	2019/01/03	07:17:11	70.1
120	2019/01/03	07:17:12	72.4
121	2019/01/03	07:17:13	70.8
122	2019/01/03	07:17:14	71.6
123	2019/01/03	07:17:15	72.1
124	2019/01/03	07:17:16	71.6
125	2019/01/03	07:17:17	70.9
126	2019/01/03	07:17:18	70.4
127	2019/01/03	07:17:19	70.7
128	2019/01/03	07:17:20	71.7
129	2019/01/03	07:17:21	71.1
130	2019/01/03	07:17:22	71.2
131	2019/01/03	07:17:23	72.3
132	2019/01/03	07:17:24	71.8
133	2019/01/03	07:17:25	71.6
134	2019/01/03	07:17:26	71.8
135	2019/01/03	07:17:27	71.3
136	2019/01/03	07:17:28	71.1
137	2019/01/03	07:17:29	71.1
138	2019/01/03	07:17:30	69.3
139	2019/01/03	07:17:31	69.5
140	2019/01/03	07:17:32	69.3
141	2019/01/03	07:17:33	68.4
142	2019/01/03	07:17:34	69.5
143	2019/01/03	07:17:35	69.3
144	2019/01/03	07:17:36	70.2
145	2019/01/03	07:17:37	69.1
146	2019/01/03	07:17:38	69.2
147	2019/01/03	07:17:39	69.4
148	2019/01/03	07:17:40	68.8
149	2019/01/03	07:17:41	69.7
150	2019/01/03	07:17:42	69.2
151	2019/01/03	07:17:43	69.2
152	2019/01/03	07:17:44	70.2
153	2019/01/03	07:17:45	71.0
154	2019/01/03	07:17:46	70.8
155	2019/01/03	07:17:47	70.4
156	2019/01/03	07:17:48	70.0
157	2019/01/03	07:17:49	70.5
158	2019/01/03	07:17:50	69.8
159	2019/01/03	07:17:51	70.5
160	2019/01/03	07:17:52	70.4
161	2019/01/03	07:17:53	71.1
162	2019/01/03	07:17:54	70.4
163	2019/01/03	07:17:55	71.4
164	2019/01/03	07:17:56	71.7
165	2019/01/03	07:17:57	71.1
166	2019/01/03	07:17:58	72.3
167	2019/01/03	07:17:59	72.8
168	2019/01/03	07:18:00	71.8
169	2019/01/03	07:18:01	70.5
170	2019/01/03	07:18:02	69.9
171	2019/01/03	07:18:03	69.2
172	2019/01/03	07:18:04	69.5
173	2019/01/03	07:18:05	69.5
174	2019/01/03	07:18:06	68.6
175	2019/01/03	07:18:07	69.1
176	2019/01/03	07:18:08	68.5
177	2019/01/03	07:18:09	68.8
178	2019/01/03	07:18:10	69.4
179	2019/01/03	07:18:11	70.4
180	2019/01/03	07:18:12	70.3
181	2019/01/03	07:18:13	70.3
182	2019/01/03	07:18:14	70.4
183	2019/01/03	07:18:15	69.8
184	2019/01/03	07:18:16	69.5

185	2019/01/03	07:18:17	71.5
186	2019/01/03	07:18:18	73.4
187	2019/01/03	07:18:19	72.5
188	2019/01/03	07:18:20	72.4
189	2019/01/03	07:18:21	69.9
190	2019/01/03	07:18:22	72.2
191	2019/01/03	07:18:23	74.2
192	2019/01/03	07:18:24	73.6
193	2019/01/03	07:18:25	71.5
194	2019/01/03	07:18:26	70.7
195	2019/01/03	07:18:27	71.1
196	2019/01/03	07:18:28	70.6
197	2019/01/03	07:18:29	70.7
198	2019/01/03	07:18:30	70.1
199	2019/01/03	07:18:31	70.7
200	2019/01/03	07:18:32	71.8
201	2019/01/03	07:18:33	71.5
202	2019/01/03	07:18:34	71.4
203	2019/01/03	07:18:35	70.7
204	2019/01/03	07:18:36	70.3
205	2019/01/03	07:18:37	70.7
206	2019/01/03	07:18:38	69.8
207	2019/01/03	07:18:39	69.3
208	2019/01/03	07:18:40	70.7
209	2019/01/03	07:18:41	69.9
210	2019/01/03	07:18:42	71.3
211	2019/01/03	07:18:43	72.3
212	2019/01/03	07:18:44	72.7
213	2019/01/03	07:18:45	72.6
214	2019/01/03	07:18:46	70.9
215	2019/01/03	07:18:47	69.6
216	2019/01/03	07:18:48	69.5
217	2019/01/03	07:18:49	70.4
218	2019/01/03	07:18:50	70.5
219	2019/01/03	07:18:51	70.7
220	2019/01/03	07:18:52	70.4
221	2019/01/03	07:18:53	70.3
222	2019/01/03	07:18:54	70.1
223	2019/01/03	07:18:55	70.7
224	2019/01/03	07:18:56	71.0
225	2019/01/03	07:18:57	70.9
226	2019/01/03	07:18:58	71.4
227	2019/01/03	07:18:59	71.1
228	2019/01/03	07:19:00	72.0
229	2019/01/03	07:19:01	71.0
230	2019/01/03	07:19:02	71.8
231	2019/01/03	07:19:03	71.8
232	2019/01/03	07:19:04	72.7
233	2019/01/03	07:19:05	72.4
234	2019/01/03	07:19:06	72.4
235	2019/01/03	07:19:07	74.0
236	2019/01/03	07:19:08	74.3
237	2019/01/03	07:19:09	74.1
238	2019/01/03	07:19:10	74.8
239	2019/01/03	07:19:11	75.1
240	2019/01/03	07:19:12	75.7
241	2019/01/03	07:19:13	75.8
242	2019/01/03	07:19:14	77.6
243	2019/01/03	07:19:15	77.2
244	2019/01/03	07:19:16	77.4
245	2019/01/03	07:19:17	78.2
246	2019/01/03	07:19:18	75.1
247	2019/01/03	07:19:19	75.1
248	2019/01/03	07:19:20	73.0
249	2019/01/03	07:19:21	72.8
250	2019/01/03	07:19:22	72.5
251	2019/01/03	07:19:23	71.5
252	2019/01/03	07:19:24	71.3
253	2019/01/03	07:19:25	71.6
254	2019/01/03	07:19:26	71.3
255	2019/01/03	07:19:27	70.7
256	2019/01/03	07:19:28	71.3
257	2019/01/03	07:19:29	70.6
258	2019/01/03	07:19:30	71.3
259	2019/01/03	07:19:31	72.5
260	2019/01/03	07:19:32	73.2
261	2019/01/03	07:19:33	73.9
262	2019/01/03	07:19:34	73.7
263	2019/01/03	07:19:35	73.5
264	2019/01/03	07:19:36	71.8
265	2019/01/03	07:19:37	72.2
266	2019/01/03	07:19:38	71.0
267	2019/01/03	07:19:39	71.2
268	2019/01/03	07:19:40	71.7
269	2019/01/03	07:19:41	71.4
270	2019/01/03	07:19:42	71.7
271	2019/01/03	07:19:43	72.0
272	2019/01/03	07:19:44	72.6
273	2019/01/03	07:19:45	72.9
274	2019/01/03	07:19:46	72.2
275	2019/01/03	07:19:47	71.8
276	2019/01/03	07:19:48	70.8
277	2019/01/03	07:19:49	71.2
278	2019/01/03	07:19:50	70.6
279	2019/01/03	07:19:51	70.9
280	2019/01/03	07:19:52	71.0
281	2019/01/03	07:19:53	70.1
282	2019/01/03	07:19:54	70.1
283	2019/01/03	07:19:55	70.3

284	2019/01/03	07: 19: 56	70. 6
285	2019/01/03	07: 19: 57	70. 0
286	2019/01/03	07: 19: 58	70. 3
287	2019/01/03	07: 19: 59	69. 9
288	2019/01/03	07: 20: 00	69. 1
289	2019/01/03	07: 20: 01	69. 3
290	2019/01/03	07: 20: 02	70. 0
291	2019/01/03	07: 20: 03	69. 6
292	2019/01/03	07: 20: 04	70. 5
293	2019/01/03	07: 20: 05	69. 0
294	2019/01/03	07: 20: 06	70. 1
295	2019/01/03	07: 20: 07	70. 8
296	2019/01/03	07: 20: 08	70. 2
297	2019/01/03	07: 20: 09	69. 7
298	2019/01/03	07: 20: 10	70. 1
299	2019/01/03	07: 20: 11	69. 9
300	2019/01/03	07: 20: 12	70. 5
301	2019/01/03	07: 20: 13	69. 7
302	2019/01/03	07: 20: 14	69. 9
303	2019/01/03	07: 20: 15	69. 9
304	2019/01/03	07: 20: 16	70. 7
305	2019/01/03	07: 20: 17	70. 3
306	2019/01/03	07: 20: 18	71. 4
307	2019/01/03	07: 20: 19	71. 5
308	2019/01/03	07: 20: 20	71. 1
309	2019/01/03	07: 20: 21	71. 3
310	2019/01/03	07: 20: 22	70. 5
311	2019/01/03	07: 20: 23	70. 2
312	2019/01/03	07: 20: 24	70. 5
313	2019/01/03	07: 20: 25	70. 8
314	2019/01/03	07: 20: 26	70. 5
315	2019/01/03	07: 20: 27	72. 1
316	2019/01/03	07: 20: 28	71. 8
317	2019/01/03	07: 20: 29	72. 1
318	2019/01/03	07: 20: 30	71. 1
319	2019/01/03	07: 20: 31	72. 3
320	2019/01/03	07: 20: 32	71. 1
321	2019/01/03	07: 20: 33	71. 4
322	2019/01/03	07: 20: 34	70. 6
323	2019/01/03	07: 20: 35	71. 1
324	2019/01/03	07: 20: 36	71. 2
325	2019/01/03	07: 20: 37	71. 7
326	2019/01/03	07: 20: 38	69. 8
327	2019/01/03	07: 20: 39	69. 5
328	2019/01/03	07: 20: 40	68. 8
329	2019/01/03	07: 20: 41	69. 3
330	2019/01/03	07: 20: 42	70. 5
331	2019/01/03	07: 20: 43	69. 6
332	2019/01/03	07: 20: 44	69. 4
333	2019/01/03	07: 20: 45	72. 4
334	2019/01/03	07: 20: 46	72. 1
335	2019/01/03	07: 20: 47	71. 6
336	2019/01/03	07: 20: 48	71. 2
337	2019/01/03	07: 20: 49	70. 8
338	2019/01/03	07: 20: 50	70. 7
339	2019/01/03	07: 20: 51	70. 5
340	2019/01/03	07: 20: 52	70. 4
341	2019/01/03	07: 20: 53	71. 3
342	2019/01/03	07: 20: 54	70. 6
343	2019/01/03	07: 20: 55	71. 5
344	2019/01/03	07: 20: 56	70. 8
345	2019/01/03	07: 20: 57	69. 9
346	2019/01/03	07: 20: 58	71. 2
347	2019/01/03	07: 20: 59	71. 0
348	2019/01/03	07: 21: 00	72. 3
349	2019/01/03	07: 21: 01	71. 8
350	2019/01/03	07: 21: 02	72. 2
351	2019/01/03	07: 21: 03	72. 3
352	2019/01/03	07: 21: 04	72. 2
353	2019/01/03	07: 21: 05	72. 1
354	2019/01/03	07: 21: 06	72. 7
355	2019/01/03	07: 21: 07	72. 8
356	2019/01/03	07: 21: 08	72. 1
357	2019/01/03	07: 21: 09	72. 7
358	2019/01/03	07: 21: 10	73. 6
359	2019/01/03	07: 21: 11	71. 9
360	2019/01/03	07: 21: 12	70. 9
361	2019/01/03	07: 21: 13	70. 0
362	2019/01/03	07: 21: 14	70. 9
363	2019/01/03	07: 21: 15	70. 0
364	2019/01/03	07: 21: 16	70. 9
365	2019/01/03	07: 21: 17	71. 8
366	2019/01/03	07: 21: 18	71. 2
367	2019/01/03	07: 21: 19	71. 3
368	2019/01/03	07: 21: 20	71. 8
369	2019/01/03	07: 21: 21	72. 8
370	2019/01/03	07: 21: 22	73. 8
371	2019/01/03	07: 21: 23	73. 3
372	2019/01/03	07: 21: 24	73. 1
373	2019/01/03	07: 21: 25	73. 5
374	2019/01/03	07: 21: 26	73. 0
375	2019/01/03	07: 21: 27	72. 7
376	2019/01/03	07: 21: 28	72. 1
377	2019/01/03	07: 21: 29	72. 3
378	2019/01/03	07: 21: 30	72. 3
379	2019/01/03	07: 21: 31	71. 7
380	2019/01/03	07: 21: 32	71. 9
381	2019/01/03	07: 21: 33	70. 9
382	2019/01/03	07: 21: 34	70. 1

383	2019/01/03	07: 21: 35	70. 8
384	2019/01/03	07: 21: 36	71. 5
385	2019/01/03	07: 21: 37	71. 7
386	2019/01/03	07: 21: 38	72. 2
387	2019/01/03	07: 21: 39	72. 3
388	2019/01/03	07: 21: 40	72. 0
389	2019/01/03	07: 21: 41	71. 3
390	2019/01/03	07: 21: 42	71. 1
391	2019/01/03	07: 21: 43	70. 9
392	2019/01/03	07: 21: 44	70. 9
393	2019/01/03	07: 21: 45	70. 8
394	2019/01/03	07: 21: 46	71. 0
395	2019/01/03	07: 21: 47	71. 6
396	2019/01/03	07: 21: 48	71. 3
397	2019/01/03	07: 21: 49	71. 2
398	2019/01/03	07: 21: 50	70. 5
399	2019/01/03	07: 21: 51	69. 9
400	2019/01/03	07: 21: 52	70. 7
401	2019/01/03	07: 21: 53	72. 5
402	2019/01/03	07: 21: 54	72. 0
403	2019/01/03	07: 21: 55	70. 8
404	2019/01/03	07: 21: 56	70. 6
405	2019/01/03	07: 21: 57	70. 6
406	2019/01/03	07: 21: 58	71. 1
407	2019/01/03	07: 21: 59	69. 8
408	2019/01/03	07: 22: 00	69. 4
409	2019/01/03	07: 22: 01	69. 1
410	2019/01/03	07: 22: 02	69. 3
411	2019/01/03	07: 22: 03	70. 8
412	2019/01/03	07: 22: 04	71. 1
413	2019/01/03	07: 22: 05	71. 3
414	2019/01/03	07: 22: 06	70. 8
415	2019/01/03	07: 22: 07	70. 0
416	2019/01/03	07: 22: 08	70. 7
417	2019/01/03	07: 22: 09	71. 3
418	2019/01/03	07: 22: 10	70. 3
419	2019/01/03	07: 22: 11	69. 2
420	2019/01/03	07: 22: 12	68. 4
421	2019/01/03	07: 22: 13	69. 0
422	2019/01/03	07: 22: 14	68. 8
423	2019/01/03	07: 22: 15	68. 8
424	2019/01/03	07: 22: 16	69. 4
425	2019/01/03	07: 22: 17	69. 4
426	2019/01/03	07: 22: 18	70. 4
427	2019/01/03	07: 22: 19	72. 3
428	2019/01/03	07: 22: 20	71. 8
429	2019/01/03	07: 22: 21	71. 6
430	2019/01/03	07: 22: 22	72. 4
431	2019/01/03	07: 22: 23	72. 8
432	2019/01/03	07: 22: 24	72. 4
433	2019/01/03	07: 22: 25	70. 4
434	2019/01/03	07: 22: 26	70. 9
435	2019/01/03	07: 22: 27	70. 5
436	2019/01/03	07: 22: 28	71. 2
437	2019/01/03	07: 22: 29	71. 2
438	2019/01/03	07: 22: 30	72. 1
439	2019/01/03	07: 22: 31	72. 4
440	2019/01/03	07: 22: 32	73. 9
441	2019/01/03	07: 22: 33	74. 3
442	2019/01/03	07: 22: 34	74. 7
443	2019/01/03	07: 22: 35	76. 2
444	2019/01/03	07: 22: 36	75. 7
445	2019/01/03	07: 22: 37	76. 4
446	2019/01/03	07: 22: 38	75. 9
447	2019/01/03	07: 22: 39	76. 0
448	2019/01/03	07: 22: 40	75. 4
449	2019/01/03	07: 22: 41	74. 8
450	2019/01/03	07: 22: 42	73. 9
451	2019/01/03	07: 22: 43	72. 6
452	2019/01/03	07: 22: 44	72. 2
453	2019/01/03	07: 22: 45	71. 6
454	2019/01/03	07: 22: 46	70. 9
455	2019/01/03	07: 22: 47	71. 1
456	2019/01/03	07: 22: 48	71. 4
457	2019/01/03	07: 22: 49	70. 6
458	2019/01/03	07: 22: 50	70. 8
459	2019/01/03	07: 22: 51	70. 9
460	2019/01/03	07: 22: 52	69. 9
461	2019/01/03	07: 22: 53	70. 8
462	2019/01/03	07: 22: 54	71. 3
463	2019/01/03	07: 22: 55	71. 2
464	2019/01/03	07: 22: 56	73. 7
465	2019/01/03	07: 22: 57	72. 6
466	2019/01/03	07: 22: 58	71. 8
467	2019/01/03	07: 22: 59	71. 9
468	2019/01/03	07: 23: 00	71. 6
469	2019/01/03	07: 23: 01	71. 1
470	2019/01/03	07: 23: 02	70. 8
471	2019/01/03	07: 23: 03	71. 0
472	2019/01/03	07: 23: 04	70. 9
473	2019/01/03	07: 23: 05	70. 7
474	2019/01/03	07: 23: 06	71. 3
475	2019/01/03	07: 23: 07	71. 5
476	2019/01/03	07: 23: 08	70. 6
477	2019/01/03	07: 23: 09	70. 8
478	2019/01/03	07: 23: 10	70. 5
479	2019/01/03	07: 23: 11	70. 7
480	2019/01/03	07: 23: 12	69. 9
481	2019/01/03	07: 23: 13	70. 1

482	2019/01/03	07: 23: 14	71. 0
483	2019/01/03	07: 23: 15	71. 8
484	2019/01/03	07: 23: 16	72. 4
485	2019/01/03	07: 23: 17	71. 5
486	2019/01/03	07: 23: 18	72. 0
487	2019/01/03	07: 23: 19	71. 6
488	2019/01/03	07: 23: 20	71. 2
489	2019/01/03	07: 23: 21	70. 9
490	2019/01/03	07: 23: 22	70. 7
491	2019/01/03	07: 23: 23	70. 5
492	2019/01/03	07: 23: 24	70. 3
493	2019/01/03	07: 23: 25	70. 6
494	2019/01/03	07: 23: 26	70. 4
495	2019/01/03	07: 23: 27	71. 4
496	2019/01/03	07: 23: 28	71. 3
497	2019/01/03	07: 23: 29	71. 1
498	2019/01/03	07: 23: 30	71. 0
499	2019/01/03	07: 23: 31	70. 1
500	2019/01/03	07: 23: 32	70. 1
501	2019/01/03	07: 23: 33	71. 3
502	2019/01/03	07: 23: 34	70. 5
503	2019/01/03	07: 23: 35	70. 8
504	2019/01/03	07: 23: 36	70. 5
505	2019/01/03	07: 23: 37	70. 5
506	2019/01/03	07: 23: 38	70. 5
507	2019/01/03	07: 23: 39	70. 9
508	2019/01/03	07: 23: 40	71. 2
509	2019/01/03	07: 23: 41	71. 5
510	2019/01/03	07: 23: 42	72. 0
511	2019/01/03	07: 23: 43	72. 5
512	2019/01/03	07: 23: 44	72. 2
513	2019/01/03	07: 23: 45	71. 8
514	2019/01/03	07: 23: 46	71. 8
515	2019/01/03	07: 23: 47	71. 3
516	2019/01/03	07: 23: 48	70. 4
517	2019/01/03	07: 23: 49	70. 5
518	2019/01/03	07: 23: 50	71. 2
519	2019/01/03	07: 23: 51	72. 1
520	2019/01/03	07: 23: 52	70. 4
521	2019/01/03	07: 23: 53	70. 7
522	2019/01/03	07: 23: 54	69. 9
523	2019/01/03	07: 23: 55	69. 5
524	2019/01/03	07: 23: 56	68. 8
525	2019/01/03	07: 23: 57	70. 2
526	2019/01/03	07: 23: 58	70. 6
527	2019/01/03	07: 23: 59	70. 4
528	2019/01/03	07: 24: 00	70. 2
529	2019/01/03	07: 24: 01	70. 9
530	2019/01/03	07: 24: 02	70. 4
531	2019/01/03	07: 24: 03	70. 9
532	2019/01/03	07: 24: 04	72. 1
533	2019/01/03	07: 24: 05	71. 8
534	2019/01/03	07: 24: 06	71. 9
535	2019/01/03	07: 24: 07	71. 4
536	2019/01/03	07: 24: 08	72. 0
537	2019/01/03	07: 24: 09	71. 7
538	2019/01/03	07: 24: 10	72. 1
539	2019/01/03	07: 24: 11	71. 5
540	2019/01/03	07: 24: 12	71. 8
541	2019/01/03	07: 24: 13	72. 4
542	2019/01/03	07: 24: 14	72. 7
543	2019/01/03	07: 24: 15	70. 7
544	2019/01/03	07: 24: 16	69. 9
545	2019/01/03	07: 24: 17	68. 7
546	2019/01/03	07: 24: 18	68. 5
547	2019/01/03	07: 24: 19	67. 3
548	2019/01/03	07: 24: 20	67. 4
549	2019/01/03	07: 24: 21	68. 8
550	2019/01/03	07: 24: 22	70. 8
551	2019/01/03	07: 24: 23	71. 1
552	2019/01/03	07: 24: 24	70. 6
553	2019/01/03	07: 24: 25	71. 9
554	2019/01/03	07: 24: 26	71. 4
555	2019/01/03	07: 24: 27	71. 2
556	2019/01/03	07: 24: 28	70. 1
557	2019/01/03	07: 24: 29	70. 1
558	2019/01/03	07: 24: 30	69. 8
559	2019/01/03	07: 24: 31	71. 2
560	2019/01/03	07: 24: 32	72. 0
561	2019/01/03	07: 24: 33	70. 9
562	2019/01/03	07: 24: 34	70. 5
563	2019/01/03	07: 24: 35	68. 9
564	2019/01/03	07: 24: 36	69. 5
565	2019/01/03	07: 24: 37	69. 7
566	2019/01/03	07: 24: 38	69. 7
567	2019/01/03	07: 24: 39	70. 6
568	2019/01/03	07: 24: 40	70. 4
569	2019/01/03	07: 24: 41	71. 6
570	2019/01/03	07: 24: 42	70. 4
571	2019/01/03	07: 24: 43	70. 7
572	2019/01/03	07: 24: 44	70. 9
573	2019/01/03	07: 24: 45	70. 5
574	2019/01/03	07: 24: 46	70. 1
575	2019/01/03	07: 24: 47	70. 3
576	2019/01/03	07: 24: 48	70. 4
577	2019/01/03	07: 24: 49	72. 2
578	2019/01/03	07: 24: 50	71. 0
579	2019/01/03	07: 24: 51	70. 6
580	2019/01/03	07: 24: 52	70. 3

581	2019/01/03	07: 24: 53	70. 3
582	2019/01/03	07: 24: 54	69. 8
583	2019/01/03	07: 24: 55	69. 5
584	2019/01/03	07: 24: 56	69. 1
585	2019/01/03	07: 24: 57	69. 6
586	2019/01/03	07: 24: 58	69. 1
587	2019/01/03	07: 24: 59	69. 5
588	2019/01/03	07: 25: 00	70. 2
589	2019/01/03	07: 25: 01	69. 8
590	2019/01/03	07: 25: 02	69. 5
591	2019/01/03	07: 25: 03	69. 8
592	2019/01/03	07: 25: 04	72. 3
593	2019/01/03	07: 25: 05	70. 9
594	2019/01/03	07: 25: 06	70. 6
595	2019/01/03	07: 25: 07	69. 2
596	2019/01/03	07: 25: 08	69. 5
597	2019/01/03	07: 25: 09	69. 8
598	2019/01/03	07: 25: 10	70. 3
599	2019/01/03	07: 25: 11	71. 0
600	2019/01/03	07: 25: 12	72. 2
601	2019/01/03	07: 25: 13	71. 8
602	2019/01/03	07: 25: 14	73. 0
603	2019/01/03	07: 25: 15	71. 5
604	2019/01/03	07: 25: 16	70. 1
605	2019/01/03	07: 25: 17	70. 4
606	2019/01/03	07: 25: 18	69. 9
607	2019/01/03	07: 25: 19	69. 9
608	2019/01/03	07: 25: 20	70. 9
609	2019/01/03	07: 25: 21	71. 2
610	2019/01/03	07: 25: 22	70. 8
611	2019/01/03	07: 25: 23	71. 7
612	2019/01/03	07: 25: 24	70. 6
613	2019/01/03	07: 25: 25	70. 4
614	2019/01/03	07: 25: 26	70. 4
615	2019/01/03	07: 25: 27	69. 9
616	2019/01/03	07: 25: 28	71. 1
617	2019/01/03	07: 25: 29	69. 8
618	2019/01/03	07: 25: 30	69. 7
619	2019/01/03	07: 25: 31	69. 5
620	2019/01/03	07: 25: 32	69. 7
621	2019/01/03	07: 25: 33	69. 5
622	2019/01/03	07: 25: 34	70. 8
623	2019/01/03	07: 25: 35	72. 3
624	2019/01/03	07: 25: 36	71. 6
625	2019/01/03	07: 25: 37	70. 0
626	2019/01/03	07: 25: 38	69. 7
627	2019/01/03	07: 25: 39	69. 6
628	2019/01/03	07: 25: 40	70. 5
629	2019/01/03	07: 25: 41	70. 0
630	2019/01/03	07: 25: 42	70. 6
631	2019/01/03	07: 25: 43	71. 0
632	2019/01/03	07: 25: 44	70. 9
633	2019/01/03	07: 25: 45	70. 8
634	2019/01/03	07: 25: 46	71. 1
635	2019/01/03	07: 25: 47	70. 6
636	2019/01/03	07: 25: 48	71. 0
637	2019/01/03	07: 25: 49	72. 3
638	2019/01/03	07: 25: 50	72. 3
639	2019/01/03	07: 25: 51	72. 9
640	2019/01/03	07: 25: 52	72. 3
641	2019/01/03	07: 25: 53	71. 2
642	2019/01/03	07: 25: 54	69. 7
643	2019/01/03	07: 25: 55	70. 8
644	2019/01/03	07: 25: 56	70. 2
645	2019/01/03	07: 25: 57	70. 6
646	2019/01/03	07: 25: 58	70. 4
647	2019/01/03	07: 25: 59	70. 3
648	2019/01/03	07: 26: 00	71. 7
649	2019/01/03	07: 26: 01	73. 6
650	2019/01/03	07: 26: 02	74. 7
651	2019/01/03	07: 26: 03	73. 7
652	2019/01/03	07: 26: 04	73. 2
653	2019/01/03	07: 26: 05	71. 4
654	2019/01/03	07: 26: 06	70. 5
655	2019/01/03	07: 26: 07	70. 3
656	2019/01/03	07: 26: 08	70. 6
657	2019/01/03	07: 26: 09	69. 9
658	2019/01/03	07: 26: 10	71. 4
659	2019/01/03	07: 26: 11	70. 9
660	2019/01/03	07: 26: 12	71. 5
661	2019/01/03	07: 26: 13	70. 4
662	2019/01/03	07: 26: 14	70. 6
663	2019/01/03	07: 26: 15	70. 0
664	2019/01/03	07: 26: 16	70. 3
665	2019/01/03	07: 26: 17	69. 9
666	2019/01/03	07: 26: 18	71. 6
667	2019/01/03	07: 26: 19	70. 9
668	2019/01/03	07: 26: 20	70. 1
669	2019/01/03	07: 26: 21	70. 0
670	2019/01/03	07: 26: 22	69. 3
671	2019/01/03	07: 26: 23	70. 2
672	2019/01/03	07: 26: 24	70. 3
673	2019/01/03	07: 26: 25	70. 3
674	2019/01/03	07: 26: 26	69. 2
675	2019/01/03	07: 26: 27	68. 9
676	2019/01/03	07: 26: 28	69. 1
677	2019/01/03	07: 26: 29	69. 4
678	2019/01/03	07: 26: 30	69. 2
679	2019/01/03	07: 26: 31	70. 4

680	2019/01/03	07:26:32	69.8
681	2019/01/03	07:26:33	69.7
682	2019/01/03	07:26:34	70.0
683	2019/01/03	07:26:35	70.6
684	2019/01/03	07:26:36	70.3
685	2019/01/03	07:26:37	71.3
686	2019/01/03	07:26:38	72.2
687	2019/01/03	07:26:39	72.0
688	2019/01/03	07:26:40	71.5
689	2019/01/03	07:26:41	71.8
690	2019/01/03	07:26:42	71.9
691	2019/01/03	07:26:43	70.8
692	2019/01/03	07:26:44	71.0
693	2019/01/03	07:26:45	70.8
694	2019/01/03	07:26:46	72.3
695	2019/01/03	07:26:47	74.6
696	2019/01/03	07:26:48	75.7
697	2019/01/03	07:26:49	72.9
698	2019/01/03	07:26:50	71.2
699	2019/01/03	07:26:51	70.1
700	2019/01/03	07:26:52	69.5
701	2019/01/03	07:26:53	70.0
702	2019/01/03	07:26:54	69.6
703	2019/01/03	07:26:55	69.4
704	2019/01/03	07:26:56	68.8
705	2019/01/03	07:26:57	70.4
706	2019/01/03	07:26:58	71.9
707	2019/01/03	07:26:59	71.5
708	2019/01/03	07:27:00	69.6
709	2019/01/03	07:27:01	69.7
710	2019/01/03	07:27:02	68.4
711	2019/01/03	07:27:03	68.3
712	2019/01/03	07:27:04	68.6
713	2019/01/03	07:27:05	69.1
714	2019/01/03	07:27:06	69.3
715	2019/01/03	07:27:07	69.6
716	2019/01/03	07:27:08	69.2
717	2019/01/03	07:27:09	68.8
718	2019/01/03	07:27:10	69.1
719	2019/01/03	07:27:11	70.1
720	2019/01/03	07:27:12	69.8
721	2019/01/03	07:27:13	71.3
722	2019/01/03	07:27:14	72.3
723	2019/01/03	07:27:15	71.5
724	2019/01/03	07:27:16	70.4
725	2019/01/03	07:27:17	68.6
726	2019/01/03	07:27:18	68.9
727	2019/01/03	07:27:19	68.9
728	2019/01/03	07:27:20	69.3
729	2019/01/03	07:27:21	69.7
730	2019/01/03	07:27:22	69.6
731	2019/01/03	07:27:23	71.0
732	2019/01/03	07:27:24	71.2
733	2019/01/03	07:27:25	71.9
734	2019/01/03	07:27:26	71.5
735	2019/01/03	07:27:27	70.7
736	2019/01/03	07:27:28	71.2
737	2019/01/03	07:27:29	71.3
738	2019/01/03	07:27:30	72.0
739	2019/01/03	07:27:31	72.0
740	2019/01/03	07:27:32	72.3
741	2019/01/03	07:27:33	72.0
742	2019/01/03	07:27:34	71.1
743	2019/01/03	07:27:35	70.6
744	2019/01/03	07:27:36	70.4
745	2019/01/03	07:27:37	70.6
746	2019/01/03	07:27:38	72.0
747	2019/01/03	07:27:39	71.0
748	2019/01/03	07:27:40	71.0
749	2019/01/03	07:27:41	70.7
750	2019/01/03	07:27:42	71.3
751	2019/01/03	07:27:43	72.4
752	2019/01/03	07:27:44	72.0
753	2019/01/03	07:27:45	72.0
754	2019/01/03	07:27:46	71.1
755	2019/01/03	07:27:47	71.4
756	2019/01/03	07:27:48	70.9
757	2019/01/03	07:27:49	70.1
758	2019/01/03	07:27:50	70.4
759	2019/01/03	07:27:51	69.5
760	2019/01/03	07:27:52	70.3
761	2019/01/03	07:27:53	69.6
762	2019/01/03	07:27:54	70.6
763	2019/01/03	07:27:55	69.9
764	2019/01/03	07:27:56	70.1
765	2019/01/03	07:27:57	71.0
766	2019/01/03	07:27:58	72.7
767	2019/01/03	07:27:59	72.7
768	2019/01/03	07:28:00	72.4
769	2019/01/03	07:28:01	71.8
770	2019/01/03	07:28:02	71.3
771	2019/01/03	07:28:03	70.1
772	2019/01/03	07:28:04	69.7
773	2019/01/03	07:28:05	70.5
774	2019/01/03	07:28:06	71.5
775	2019/01/03	07:28:07	72.6
776	2019/01/03	07:28:08	74.5
777	2019/01/03	07:28:09	73.4
778	2019/01/03	07:28:10	72.8

779	2019/01/03	07:28:11	71.6
780	2019/01/03	07:28:12	72.3
781	2019/01/03	07:28:13	74.8
782	2019/01/03	07:28:14	75.7
783	2019/01/03	07:28:15	76.1
784	2019/01/03	07:28:16	73.9
785	2019/01/03	07:28:17	78.2
786	2019/01/03	07:28:18	73.2
787	2019/01/03	07:28:19	71.9
788	2019/01/03	07:28:20	72.1
789	2019/01/03	07:28:21	70.9
790	2019/01/03	07:28:22	72.1
791	2019/01/03	07:28:23	70.6
792	2019/01/03	07:28:24	70.1
793	2019/01/03	07:28:25	70.1
794	2019/01/03	07:28:26	69.5
795	2019/01/03	07:28:27	69.7
796	2019/01/03	07:28:28	71.2
797	2019/01/03	07:28:29	70.6
798	2019/01/03	07:28:30	70.1
799	2019/01/03	07:28:31	70.0
800	2019/01/03	07:28:32	69.9
801	2019/01/03	07:28:33	68.9
802	2019/01/03	07:28:34	70.7
803	2019/01/03	07:28:35	69.3
804	2019/01/03	07:28:36	69.9
805	2019/01/03	07:28:37	70.1
806	2019/01/03	07:28:38	69.5
807	2019/01/03	07:28:39	68.9
808	2019/01/03	07:28:40	69.2
809	2019/01/03	07:28:41	69.1
810	2019/01/03	07:28:42	69.4
811	2019/01/03	07:28:43	69.2
812	2019/01/03	07:28:44	69.1
813	2019/01/03	07:28:45	69.7
814	2019/01/03	07:28:46	69.9
815	2019/01/03	07:28:47	69.9
816	2019/01/03	07:28:48	69.5
817	2019/01/03	07:28:49	69.7
818	2019/01/03	07:28:50	70.2
819	2019/01/03	07:28:51	71.4
820	2019/01/03	07:28:52	71.2
821	2019/01/03	07:28:53	71.8
822	2019/01/03	07:28:54	71.3
823	2019/01/03	07:28:55	70.1
824	2019/01/03	07:28:56	69.2
825	2019/01/03	07:28:57	68.9
826	2019/01/03	07:28:58	69.2
827	2019/01/03	07:28:59	69.5
828	2019/01/03	07:29:00	69.7
829	2019/01/03	07:29:01	70.8
830	2019/01/03	07:29:02	71.6
831	2019/01/03	07:29:03	71.8
832	2019/01/03	07:29:04	69.9
833	2019/01/03	07:29:05	71.2
834	2019/01/03	07:29:06	70.7
835	2019/01/03	07:29:07	71.5
836	2019/01/03	07:29:08	71.5
837	2019/01/03	07:29:09	70.4
838	2019/01/03	07:29:10	70.9
839	2019/01/03	07:29:11	71.2
840	2019/01/03	07:29:12	73.7
841	2019/01/03	07:29:13	74.9
842	2019/01/03	07:29:14	72.4
843	2019/01/03	07:29:15	74.1
844	2019/01/03	07:29:16	72.4
845	2019/01/03	07:29:17	72.1
846	2019/01/03	07:29:18	71.5
847	2019/01/03	07:29:19	71.3
848	2019/01/03	07:29:20	73.0
849	2019/01/03	07:29:21	71.8
850	2019/01/03	07:29:22	71.6
851	2019/01/03	07:29:23	71.7
852	2019/01/03	07:29:24	71.1
853	2019/01/03	07:29:25	71.6
854	2019/01/03	07:29:26	70.5
855	2019/01/03	07:29:27	71.0
856	2019/01/03	07:29:28	70.5
857	2019/01/03	07:29:29	71.1
858	2019/01/03	07:29:30	71.2
859	2019/01/03	07:29:31	69.8
860	2019/01/03	07:29:32	70.4
861	2019/01/03	07:29:33	71.5
862	2019/01/03	07:29:34	71.4
863	2019/01/03	07:29:35	71.7
864	2019/01/03	07:29:36	71.4
865	2019/01/03	07:29:37	71.2
866	2019/01/03	07:29:38	71.0
867	2019/01/03	07:29:39	69.7
868	2019/01/03	07:29:40	69.0
869	2019/01/03	07:29:41	69.6
870	2019/01/03	07:29:42	68.8
871	2019/01/03	07:29:43	68.5
872	2019/01/03	07:29:44	69.1
873	2019/01/03	07:29:45	69.1
874	2019/01/03	07:29:46	69.1
875	2019/01/03	07:29:47	69.2
876	2019/01/03	07:29:48	70.6
877	2019/01/03	07:29:49	69.5

878	2019/01/03	07: 29: 50	68. 1
879	2019/01/03	07: 29: 51	68. 8
880	2019/01/03	07: 29: 52	68. 5
881	2019/01/03	07: 29: 53	70. 1
882	2019/01/03	07: 29: 54	70. 9
883	2019/01/03	07: 29: 55	70. 7
884	2019/01/03	07: 29: 56	70. 9
885	2019/01/03	07: 29: 57	71. 9
886	2019/01/03	07: 29: 58	72. 6
887	2019/01/03	07: 29: 59	70. 6
888	2019/01/03	07: 30: 00	70. 2
889	2019/01/03	07: 30: 01	70. 3
890	2019/01/03	07: 30: 02	69. 7
891	2019/01/03	07: 30: 03	70. 4
892	2019/01/03	07: 30: 04	71. 5
893	2019/01/03	07: 30: 05	70. 8
894	2019/01/03	07: 30: 06	70. 9
895	2019/01/03	07: 30: 07	69. 6
896	2019/01/03	07: 30: 08	70. 6
897	2019/01/03	07: 30: 09	70. 6
898	2019/01/03	07: 30: 10	71. 4
899	2019/01/03	07: 30: 11	71. 2
900	2019/01/03	07: 30: 12	71. 0

Freq Weight : A
Time Weight : FAST
Level Range : 40-100
Max dB : 84.0 - 2019/01/03 07: 43: 08
Level Range : 40-100
SEL : 99.5
Leq : 70.0

No. s	Date Time	(dB)
1	2019/01/03 07: 42: 21	65.2
2	2019/01/03 07: 42: 22	65.0
3	2019/01/03 07: 42: 23	65.2
4	2019/01/03 07: 42: 24	66.5
5	2019/01/03 07: 42: 25	67.0
6	2019/01/03 07: 42: 26	68.0
7	2019/01/03 07: 42: 27	68.1
8	2019/01/03 07: 42: 28	68.0
9	2019/01/03 07: 42: 29	68.1
10	2019/01/03 07: 42: 30	67.9
11	2019/01/03 07: 42: 31	66.5
12	2019/01/03 07: 42: 32	67.5
13	2019/01/03 07: 42: 33	66.8
14	2019/01/03 07: 42: 34	68.1
15	2019/01/03 07: 42: 35	67.4
16	2019/01/03 07: 42: 36	67.4
17	2019/01/03 07: 42: 37	68.2
18	2019/01/03 07: 42: 38	69.3
19	2019/01/03 07: 42: 39	69.4
20	2019/01/03 07: 42: 40	69.7
21	2019/01/03 07: 42: 41	71.0
22	2019/01/03 07: 42: 42	70.6
23	2019/01/03 07: 42: 43	70.3
24	2019/01/03 07: 42: 44	69.4
25	2019/01/03 07: 42: 45	68.9
26	2019/01/03 07: 42: 46	68.9
27	2019/01/03 07: 42: 47	67.5
28	2019/01/03 07: 42: 48	67.6
29	2019/01/03 07: 42: 49	67.8
30	2019/01/03 07: 42: 50	66.4
31	2019/01/03 07: 42: 51	67.2
32	2019/01/03 07: 42: 52	68.3
33	2019/01/03 07: 42: 53	68.1
34	2019/01/03 07: 42: 54	70.6
35	2019/01/03 07: 42: 55	73.0
36	2019/01/03 07: 42: 56	72.0
37	2019/01/03 07: 42: 57	71.6
38	2019/01/03 07: 42: 58	75.9
39	2019/01/03 07: 42: 59	76.3
40	2019/01/03 07: 43: 00	77.3
41	2019/01/03 07: 43: 01	72.2
42	2019/01/03 07: 43: 02	71.7
43	2019/01/03 07: 43: 03	68.7
44	2019/01/03 07: 43: 04	68.6
45	2019/01/03 07: 43: 05	70.3
46	2019/01/03 07: 43: 06	70.0
47	2019/01/03 07: 43: 07	76.2
48	2019/01/03 07: 43: 08	80.9
49	2019/01/03 07: 43: 09	74.7
50	2019/01/03 07: 43: 10	75.7
51	2019/01/03 07: 43: 11	66.2
52	2019/01/03 07: 43: 12	65.4
53	2019/01/03 07: 43: 13	65.3
54	2019/01/03 07: 43: 14	65.0
55	2019/01/03 07: 43: 15	64.9
56	2019/01/03 07: 43: 16	67.5
57	2019/01/03 07: 43: 17	67.2
58	2019/01/03 07: 43: 18	67.7
59	2019/01/03 07: 43: 19	71.9
60	2019/01/03 07: 43: 20	70.8
61	2019/01/03 07: 43: 21	71.4
62	2019/01/03 07: 43: 22	70.3
63	2019/01/03 07: 43: 23	68.1
64	2019/01/03 07: 43: 24	68.1
65	2019/01/03 07: 43: 25	67.5
66	2019/01/03 07: 43: 26	66.9
67	2019/01/03 07: 43: 27	66.8
68	2019/01/03 07: 43: 28	67.2
69	2019/01/03 07: 43: 29	65.7
70	2019/01/03 07: 43: 30	66.8
71	2019/01/03 07: 43: 31	65.9
72	2019/01/03 07: 43: 32	65.6
73	2019/01/03 07: 43: 33	65.0
74	2019/01/03 07: 43: 34	64.7
75	2019/01/03 07: 43: 35	64.6
76	2019/01/03 07: 43: 36	64.7
77	2019/01/03 07: 43: 37	65.0
78	2019/01/03 07: 43: 38	64.6
79	2019/01/03 07: 43: 39	66.1
80	2019/01/03 07: 43: 40	66.0
81	2019/01/03 07: 43: 41	66.6
82	2019/01/03 07: 43: 42	68.4
83	2019/01/03 07: 43: 43	70.5
84	2019/01/03 07: 43: 44	72.3
85	2019/01/03 07: 43: 45	72.4

86	2019/01/03	07: 43: 46	70. 6
87	2019/01/03	07: 43: 47	67. 9
88	2019/01/03	07: 43: 48	65. 3
89	2019/01/03	07: 43: 49	64. 9
90	2019/01/03	07: 43: 50	65. 8
91	2019/01/03	07: 43: 51	67. 6
92	2019/01/03	07: 43: 52	68. 7
93	2019/01/03	07: 43: 53	70. 5
94	2019/01/03	07: 43: 54	73. 5
95	2019/01/03	07: 43: 55	77. 0
96	2019/01/03	07: 43: 56	75. 1
97	2019/01/03	07: 43: 57	73. 1
98	2019/01/03	07: 43: 58	70. 8
99	2019/01/03	07: 43: 59	70. 4
100	2019/01/03	07: 44: 00	69. 7
101	2019/01/03	07: 44: 01	69. 1
102	2019/01/03	07: 44: 02	69. 3
103	2019/01/03	07: 44: 03	69. 5
104	2019/01/03	07: 44: 04	69. 5
105	2019/01/03	07: 44: 05	70. 2
106	2019/01/03	07: 44: 06	70. 1
107	2019/01/03	07: 44: 07	70. 5
108	2019/01/03	07: 44: 08	71. 8
109	2019/01/03	07: 44: 09	72. 9
110	2019/01/03	07: 44: 10	71. 7
111	2019/01/03	07: 44: 11	70. 0
112	2019/01/03	07: 44: 12	69. 3
113	2019/01/03	07: 44: 13	68. 3
114	2019/01/03	07: 44: 14	68. 6
115	2019/01/03	07: 44: 15	69. 7
116	2019/01/03	07: 44: 16	69. 5
117	2019/01/03	07: 44: 17	67. 8
118	2019/01/03	07: 44: 18	66. 4
119	2019/01/03	07: 44: 19	65. 9
120	2019/01/03	07: 44: 20	64. 8
121	2019/01/03	07: 44: 21	63. 5
122	2019/01/03	07: 44: 22	63. 5
123	2019/01/03	07: 44: 23	64. 4
124	2019/01/03	07: 44: 24	66. 5
125	2019/01/03	07: 44: 25	67. 4
126	2019/01/03	07: 44: 26	67. 2
127	2019/01/03	07: 44: 27	66. 6
128	2019/01/03	07: 44: 28	66. 7
129	2019/01/03	07: 44: 29	66. 0
130	2019/01/03	07: 44: 30	65. 3
131	2019/01/03	07: 44: 31	65. 6
132	2019/01/03	07: 44: 32	67. 7
133	2019/01/03	07: 44: 33	66. 3
134	2019/01/03	07: 44: 34	66. 9
135	2019/01/03	07: 44: 35	66. 4
136	2019/01/03	07: 44: 36	67. 2
137	2019/01/03	07: 44: 37	66. 1
138	2019/01/03	07: 44: 38	66. 9
139	2019/01/03	07: 44: 39	67. 1
140	2019/01/03	07: 44: 40	67. 1
141	2019/01/03	07: 44: 41	67. 1
142	2019/01/03	07: 44: 42	66. 7
143	2019/01/03	07: 44: 43	67. 3
144	2019/01/03	07: 44: 44	67. 0
145	2019/01/03	07: 44: 45	66. 6
146	2019/01/03	07: 44: 46	66. 4
147	2019/01/03	07: 44: 47	67. 0
148	2019/01/03	07: 44: 48	68. 2
149	2019/01/03	07: 44: 49	69. 9
150	2019/01/03	07: 44: 50	70. 5
151	2019/01/03	07: 44: 51	72. 2
152	2019/01/03	07: 44: 52	71. 6
153	2019/01/03	07: 44: 53	73. 5
154	2019/01/03	07: 44: 54	72. 1
155	2019/01/03	07: 44: 55	72. 3
156	2019/01/03	07: 44: 56	71. 0
157	2019/01/03	07: 44: 57	69. 7
158	2019/01/03	07: 44: 58	69. 1
159	2019/01/03	07: 44: 59	68. 5
160	2019/01/03	07: 45: 00	68. 5
161	2019/01/03	07: 45: 01	68. 9
162	2019/01/03	07: 45: 02	69. 1
163	2019/01/03	07: 45: 03	70. 3
164	2019/01/03	07: 45: 04	69. 8
165	2019/01/03	07: 45: 05	69. 9
166	2019/01/03	07: 45: 06	68. 7
167	2019/01/03	07: 45: 07	70. 2
168	2019/01/03	07: 45: 08	70. 0
169	2019/01/03	07: 45: 09	68. 9
170	2019/01/03	07: 45: 10	69. 2
171	2019/01/03	07: 45: 11	68. 6
172	2019/01/03	07: 45: 12	67. 7
173	2019/01/03	07: 45: 13	67. 8
174	2019/01/03	07: 45: 14	69. 1
175	2019/01/03	07: 45: 15	70. 4
176	2019/01/03	07: 45: 16	69. 6
177	2019/01/03	07: 45: 17	69. 4
178	2019/01/03	07: 45: 18	70. 6
179	2019/01/03	07: 45: 19	71. 4
180	2019/01/03	07: 45: 20	70. 3
181	2019/01/03	07: 45: 21	68. 9
182	2019/01/03	07: 45: 22	68. 0
183	2019/01/03	07: 45: 23	66. 7
184	2019/01/03	07: 45: 24	65. 8

185	2019/01/03	07:45:25	64.8
186	2019/01/03	07:45:26	64.5
187	2019/01/03	07:45:27	64.7
188	2019/01/03	07:45:28	65.4
189	2019/01/03	07:45:29	65.0
190	2019/01/03	07:45:30	64.7
191	2019/01/03	07:45:31	64.5
192	2019/01/03	07:45:32	64.9
193	2019/01/03	07:45:33	64.9
194	2019/01/03	07:45:34	64.1
195	2019/01/03	07:45:35	63.9
196	2019/01/03	07:45:36	63.3
197	2019/01/03	07:45:37	63.8
198	2019/01/03	07:45:38	63.3
199	2019/01/03	07:45:39	62.8
200	2019/01/03	07:45:40	63.3
201	2019/01/03	07:45:41	64.1
202	2019/01/03	07:45:42	65.3
203	2019/01/03	07:45:43	65.8
204	2019/01/03	07:45:44	66.7
205	2019/01/03	07:45:45	68.6
206	2019/01/03	07:45:46	67.9
207	2019/01/03	07:45:47	66.3
208	2019/01/03	07:45:48	65.8
209	2019/01/03	07:45:49	65.4
210	2019/01/03	07:45:50	64.9
211	2019/01/03	07:45:51	64.9
212	2019/01/03	07:45:52	64.3
213	2019/01/03	07:45:53	65.0
214	2019/01/03	07:45:54	66.2
215	2019/01/03	07:45:55	66.8
216	2019/01/03	07:45:56	67.6
217	2019/01/03	07:45:57	69.5
218	2019/01/03	07:45:58	73.3
219	2019/01/03	07:45:59	80.7
220	2019/01/03	07:46:00	80.6
221	2019/01/03	07:46:01	70.5
222	2019/01/03	07:46:02	73.0
223	2019/01/03	07:46:03	70.6
224	2019/01/03	07:46:04	68.4
225	2019/01/03	07:46:05	68.4
226	2019/01/03	07:46:06	67.6
227	2019/01/03	07:46:07	66.5
228	2019/01/03	07:46:08	66.4
229	2019/01/03	07:46:09	65.5
230	2019/01/03	07:46:10	64.4
231	2019/01/03	07:46:11	64.4
232	2019/01/03	07:46:12	64.0
233	2019/01/03	07:46:13	63.3
234	2019/01/03	07:46:14	63.5
235	2019/01/03	07:46:15	64.1
236	2019/01/03	07:46:16	65.5
237	2019/01/03	07:46:17	65.1
238	2019/01/03	07:46:18	65.6
239	2019/01/03	07:46:19	65.3
240	2019/01/03	07:46:20	66.5
241	2019/01/03	07:46:21	65.3
242	2019/01/03	07:46:22	65.1
243	2019/01/03	07:46:23	65.0
244	2019/01/03	07:46:24	64.0
245	2019/01/03	07:46:25	63.7
246	2019/01/03	07:46:26	63.8
247	2019/01/03	07:46:27	63.6
248	2019/01/03	07:46:28	63.6
249	2019/01/03	07:46:29	64.6
250	2019/01/03	07:46:30	63.7
251	2019/01/03	07:46:31	64.6
252	2019/01/03	07:46:32	64.3
253	2019/01/03	07:46:33	65.2
254	2019/01/03	07:46:34	66.1
255	2019/01/03	07:46:35	73.0
256	2019/01/03	07:46:36	69.0
257	2019/01/03	07:46:37	67.8
258	2019/01/03	07:46:38	66.9
259	2019/01/03	07:46:39	66.6
260	2019/01/03	07:46:40	65.7
261	2019/01/03	07:46:41	65.3
262	2019/01/03	07:46:42	64.6
263	2019/01/03	07:46:43	66.3
264	2019/01/03	07:46:44	65.9
265	2019/01/03	07:46:45	66.3
266	2019/01/03	07:46:46	66.0
267	2019/01/03	07:46:47	65.5
268	2019/01/03	07:46:48	64.5
269	2019/01/03	07:46:49	65.2
270	2019/01/03	07:46:50	63.7
271	2019/01/03	07:46:51	64.0
272	2019/01/03	07:46:52	64.4
273	2019/01/03	07:46:53	65.1
274	2019/01/03	07:46:54	67.0
275	2019/01/03	07:46:55	68.3
276	2019/01/03	07:46:56	68.6
277	2019/01/03	07:46:57	69.1
278	2019/01/03	07:46:58	70.4
279	2019/01/03	07:46:59	71.9
280	2019/01/03	07:47:00	71.6
281	2019/01/03	07:47:01	71.2
282	2019/01/03	07:47:02	71.3
283	2019/01/03	07:47:03	71.1

284	2019/01/03	07:47:04	70.4
285	2019/01/03	07:47:05	70.2
286	2019/01/03	07:47:06	69.6
287	2019/01/03	07:47:07	69.4
288	2019/01/03	07:47:08	69.2
289	2019/01/03	07:47:09	71.2
290	2019/01/03	07:47:10	72.2
291	2019/01/03	07:47:11	71.6
292	2019/01/03	07:47:12	71.1
293	2019/01/03	07:47:13	71.2
294	2019/01/03	07:47:14	72.3
295	2019/01/03	07:47:15	72.1
296	2019/01/03	07:47:16	72.1
297	2019/01/03	07:47:17	69.6
298	2019/01/03	07:47:18	68.8
299	2019/01/03	07:47:19	67.3
300	2019/01/03	07:47:20	66.8
301	2019/01/03	07:47:21	67.7
302	2019/01/03	07:47:22	68.8
303	2019/01/03	07:47:23	69.3
304	2019/01/03	07:47:24	68.0
305	2019/01/03	07:47:25	66.6
306	2019/01/03	07:47:26	66.7
307	2019/01/03	07:47:27	66.7
308	2019/01/03	07:47:28	67.5
309	2019/01/03	07:47:29	66.9
310	2019/01/03	07:47:30	69.3
311	2019/01/03	07:47:31	71.2
312	2019/01/03	07:47:32	70.7
313	2019/01/03	07:47:33	68.5
314	2019/01/03	07:47:34	67.2
315	2019/01/03	07:47:35	65.3
316	2019/01/03	07:47:36	65.2
317	2019/01/03	07:47:37	65.9
318	2019/01/03	07:47:38	66.9
319	2019/01/03	07:47:39	66.8
320	2019/01/03	07:47:40	66.9
321	2019/01/03	07:47:41	66.6
322	2019/01/03	07:47:42	66.4
323	2019/01/03	07:47:43	66.3
324	2019/01/03	07:47:44	66.2
325	2019/01/03	07:47:45	67.2
326	2019/01/03	07:47:46	66.7
327	2019/01/03	07:47:47	65.5
328	2019/01/03	07:47:48	64.9
329	2019/01/03	07:47:49	65.2
330	2019/01/03	07:47:50	65.0
331	2019/01/03	07:47:51	65.1
332	2019/01/03	07:47:52	65.9
333	2019/01/03	07:47:53	66.3
334	2019/01/03	07:47:54	65.8
335	2019/01/03	07:47:55	66.7
336	2019/01/03	07:47:56	66.5
337	2019/01/03	07:47:57	67.9
338	2019/01/03	07:47:58	69.6
339	2019/01/03	07:47:59	73.9
340	2019/01/03	07:48:00	74.9
341	2019/01/03	07:48:01	72.3
342	2019/01/03	07:48:02	70.0
343	2019/01/03	07:48:03	69.8
344	2019/01/03	07:48:04	68.6
345	2019/01/03	07:48:05	69.6
346	2019/01/03	07:48:06	69.6
347	2019/01/03	07:48:07	70.2
348	2019/01/03	07:48:08	68.9
349	2019/01/03	07:48:09	69.0
350	2019/01/03	07:48:10	69.3
351	2019/01/03	07:48:11	68.6
352	2019/01/03	07:48:12	68.1
353	2019/01/03	07:48:13	67.0
354	2019/01/03	07:48:14	67.2
355	2019/01/03	07:48:15	66.8
356	2019/01/03	07:48:16	65.2
357	2019/01/03	07:48:17	67.7
358	2019/01/03	07:48:18	67.5
359	2019/01/03	07:48:19	68.4
360	2019/01/03	07:48:20	67.1
361	2019/01/03	07:48:21	65.7
362	2019/01/03	07:48:22	63.7
363	2019/01/03	07:48:23	63.5
364	2019/01/03	07:48:24	63.9
365	2019/01/03	07:48:25	63.8
366	2019/01/03	07:48:26	64.2
367	2019/01/03	07:48:27	63.9
368	2019/01/03	07:48:28	63.5
369	2019/01/03	07:48:29	64.2
370	2019/01/03	07:48:30	64.0
371	2019/01/03	07:48:31	65.1
372	2019/01/03	07:48:32	66.8
373	2019/01/03	07:48:33	64.9
374	2019/01/03	07:48:34	65.8
375	2019/01/03	07:48:35	64.8
376	2019/01/03	07:48:36	64.0
377	2019/01/03	07:48:37	64.7
378	2019/01/03	07:48:38	64.2
379	2019/01/03	07:48:39	64.3
380	2019/01/03	07:48:40	64.5
381	2019/01/03	07:48:41	65.0
382	2019/01/03	07:48:42	64.9

383	2019/01/03	07:48:43	64.9
384	2019/01/03	07:48:44	65.2
385	2019/01/03	07:48:45	66.3
386	2019/01/03	07:48:46	66.4
387	2019/01/03	07:48:47	66.4
388	2019/01/03	07:48:48	65.4
389	2019/01/03	07:48:49	65.0
390	2019/01/03	07:48:50	64.7
391	2019/01/03	07:48:51	63.8
392	2019/01/03	07:48:52	64.5
393	2019/01/03	07:48:53	64.8
394	2019/01/03	07:48:54	65.9
395	2019/01/03	07:48:55	65.7
396	2019/01/03	07:48:56	66.9
397	2019/01/03	07:48:57	67.1
398	2019/01/03	07:48:58	68.7
399	2019/01/03	07:48:59	68.8
400	2019/01/03	07:49:00	70.5
401	2019/01/03	07:49:01	70.7
402	2019/01/03	07:49:02	71.2
403	2019/01/03	07:49:03	70.5
404	2019/01/03	07:49:04	70.7
405	2019/01/03	07:49:05	71.8
406	2019/01/03	07:49:06	72.6
407	2019/01/03	07:49:07	71.1
408	2019/01/03	07:49:08	71.7
409	2019/01/03	07:49:09	72.7
410	2019/01/03	07:49:10	71.8
411	2019/01/03	07:49:11	71.5
412	2019/01/03	07:49:12	69.8
413	2019/01/03	07:49:13	70.1
414	2019/01/03	07:49:14	70.0
415	2019/01/03	07:49:15	68.9
416	2019/01/03	07:49:16	68.7
417	2019/01/03	07:49:17	70.5
418	2019/01/03	07:49:18	68.8
419	2019/01/03	07:49:19	69.0
420	2019/01/03	07:49:20	68.5
421	2019/01/03	07:49:21	68.6
422	2019/01/03	07:49:22	71.9
423	2019/01/03	07:49:23	74.5
424	2019/01/03	07:49:24	73.0
425	2019/01/03	07:49:25	73.7
426	2019/01/03	07:49:26	73.2
427	2019/01/03	07:49:27	73.3
428	2019/01/03	07:49:28	72.0
429	2019/01/03	07:49:29	72.3
430	2019/01/03	07:49:30	71.7
431	2019/01/03	07:49:31	70.5
432	2019/01/03	07:49:32	69.5
433	2019/01/03	07:49:33	72.2
434	2019/01/03	07:49:34	71.5
435	2019/01/03	07:49:35	74.1
436	2019/01/03	07:49:36	76.6
437	2019/01/03	07:49:37	75.9
438	2019/01/03	07:49:38	68.2
439	2019/01/03	07:49:39	68.4
440	2019/01/03	07:49:40	68.3
441	2019/01/03	07:49:41	67.3
442	2019/01/03	07:49:42	68.8
443	2019/01/03	07:49:43	69.2
444	2019/01/03	07:49:44	67.9
445	2019/01/03	07:49:45	66.6
446	2019/01/03	07:49:46	65.3
447	2019/01/03	07:49:47	66.4
448	2019/01/03	07:49:48	65.7
449	2019/01/03	07:49:49	65.4
450	2019/01/03	07:49:50	64.9
451	2019/01/03	07:49:51	64.6
452	2019/01/03	07:49:52	64.8
453	2019/01/03	07:49:53	64.1
454	2019/01/03	07:49:54	65.1
455	2019/01/03	07:49:55	64.9
456	2019/01/03	07:49:56	65.4
457	2019/01/03	07:49:57	64.5
458	2019/01/03	07:49:58	63.9
459	2019/01/03	07:49:59	64.4
460	2019/01/03	07:50:00	64.4
461	2019/01/03	07:50:01	64.0
462	2019/01/03	07:50:02	64.4
463	2019/01/03	07:50:03	65.0
464	2019/01/03	07:50:04	64.4
465	2019/01/03	07:50:05	65.0
466	2019/01/03	07:50:06	65.5
467	2019/01/03	07:50:07	65.9
468	2019/01/03	07:50:08	67.2
469	2019/01/03	07:50:09	68.2
470	2019/01/03	07:50:10	68.5
471	2019/01/03	07:50:11	68.8
472	2019/01/03	07:50:12	70.1
473	2019/01/03	07:50:13	69.9
474	2019/01/03	07:50:14	70.4
475	2019/01/03	07:50:15	71.0
476	2019/01/03	07:50:16	72.0
477	2019/01/03	07:50:17	70.5
478	2019/01/03	07:50:18	69.1
479	2019/01/03	07:50:19	67.6
480	2019/01/03	07:50:20	67.9
481	2019/01/03	07:50:21	67.3

482	2019/01/03	07:50:22	67.6
483	2019/01/03	07:50:23	66.5
484	2019/01/03	07:50:24	66.5
485	2019/01/03	07:50:25	66.1
486	2019/01/03	07:50:26	66.0
487	2019/01/03	07:50:27	67.0
488	2019/01/03	07:50:28	67.4
489	2019/01/03	07:50:29	67.3
490	2019/01/03	07:50:30	67.7
491	2019/01/03	07:50:31	66.6
492	2019/01/03	07:50:32	65.3
493	2019/01/03	07:50:33	66.3
494	2019/01/03	07:50:34	66.3
495	2019/01/03	07:50:35	66.3
496	2019/01/03	07:50:36	68.4
497	2019/01/03	07:50:37	68.8
498	2019/01/03	07:50:38	68.9
499	2019/01/03	07:50:39	70.8
500	2019/01/03	07:50:40	70.5
501	2019/01/03	07:50:41	70.1
502	2019/01/03	07:50:42	68.6
503	2019/01/03	07:50:43	67.8
504	2019/01/03	07:50:44	68.5
505	2019/01/03	07:50:45	67.7
506	2019/01/03	07:50:46	67.6
507	2019/01/03	07:50:47	67.9
508	2019/01/03	07:50:48	66.8
509	2019/01/03	07:50:49	66.0
510	2019/01/03	07:50:50	65.2
511	2019/01/03	07:50:51	65.6
512	2019/01/03	07:50:52	64.7
513	2019/01/03	07:50:53	65.2
514	2019/01/03	07:50:54	66.0
515	2019/01/03	07:50:55	66.1
516	2019/01/03	07:50:56	67.9
517	2019/01/03	07:50:57	66.8
518	2019/01/03	07:50:58	66.0
519	2019/01/03	07:50:59	68.3
520	2019/01/03	07:51:00	69.3
521	2019/01/03	07:51:01	70.8
522	2019/01/03	07:51:02	72.1
523	2019/01/03	07:51:03	71.8
524	2019/01/03	07:51:04	71.1
525	2019/01/03	07:51:05	70.9
526	2019/01/03	07:51:06	69.7
527	2019/01/03	07:51:07	69.8
528	2019/01/03	07:51:08	68.3
529	2019/01/03	07:51:09	67.8
530	2019/01/03	07:51:10	67.4
531	2019/01/03	07:51:11	66.9
532	2019/01/03	07:51:12	66.8
533	2019/01/03	07:51:13	66.5
534	2019/01/03	07:51:14	67.2
535	2019/01/03	07:51:15	66.8
536	2019/01/03	07:51:16	68.1
537	2019/01/03	07:51:17	67.0
538	2019/01/03	07:51:18	67.2
539	2019/01/03	07:51:19	67.7
540	2019/01/03	07:51:20	69.6
541	2019/01/03	07:51:21	69.7
542	2019/01/03	07:51:22	71.5
543	2019/01/03	07:51:23	71.8
544	2019/01/03	07:51:24	71.8
545	2019/01/03	07:51:25	72.3
546	2019/01/03	07:51:26	71.3
547	2019/01/03	07:51:27	71.4
548	2019/01/03	07:51:28	70.6
549	2019/01/03	07:51:29	70.7
550	2019/01/03	07:51:30	73.1
551	2019/01/03	07:51:31	74.1
552	2019/01/03	07:51:32	74.0
553	2019/01/03	07:51:33	72.0
554	2019/01/03	07:51:34	70.8
555	2019/01/03	07:51:35	71.6
556	2019/01/03	07:51:36	71.1
557	2019/01/03	07:51:37	70.1
558	2019/01/03	07:51:38	70.9
559	2019/01/03	07:51:39	71.4
560	2019/01/03	07:51:40	72.3
561	2019/01/03	07:51:41	74.8
562	2019/01/03	07:51:42	73.7
563	2019/01/03	07:51:43	72.2
564	2019/01/03	07:51:44	71.2
565	2019/01/03	07:51:45	69.3
566	2019/01/03	07:51:46	69.6
567	2019/01/03	07:51:47	71.3
568	2019/01/03	07:51:48	70.6
569	2019/01/03	07:51:49	69.0
570	2019/01/03	07:51:50	69.4
571	2019/01/03	07:51:51	68.8
572	2019/01/03	07:51:52	70.2
573	2019/01/03	07:51:53	72.2
574	2019/01/03	07:51:54	72.0
575	2019/01/03	07:51:55	69.0
576	2019/01/03	07:51:56	67.7
577	2019/01/03	07:51:57	66.9
578	2019/01/03	07:51:58	66.3
579	2019/01/03	07:51:59	66.8
580	2019/01/03	07:52:00	66.8

581	2019/01/03	07: 52: 01	67. 3
582	2019/01/03	07: 52: 02	66. 4
583	2019/01/03	07: 52: 03	67. 4
584	2019/01/03	07: 52: 04	68. 4
585	2019/01/03	07: 52: 05	68. 4
586	2019/01/03	07: 52: 06	69. 6
587	2019/01/03	07: 52: 07	70. 3
588	2019/01/03	07: 52: 08	68. 5
589	2019/01/03	07: 52: 09	68. 2
590	2019/01/03	07: 52: 10	66. 9
591	2019/01/03	07: 52: 11	67. 4
592	2019/01/03	07: 52: 12	64. 7
593	2019/01/03	07: 52: 13	65. 1
594	2019/01/03	07: 52: 14	65. 0
595	2019/01/03	07: 52: 15	64. 2
596	2019/01/03	07: 52: 16	64. 0
597	2019/01/03	07: 52: 17	63. 3
598	2019/01/03	07: 52: 18	63. 5
599	2019/01/03	07: 52: 19	65. 0
600	2019/01/03	07: 52: 20	67. 1
601	2019/01/03	07: 52: 21	69. 5
602	2019/01/03	07: 52: 22	70. 5
603	2019/01/03	07: 52: 23	69. 5
604	2019/01/03	07: 52: 24	69. 8
605	2019/01/03	07: 52: 25	71. 0
606	2019/01/03	07: 52: 26	71. 7
607	2019/01/03	07: 52: 27	71. 3
608	2019/01/03	07: 52: 28	71. 0
609	2019/01/03	07: 52: 29	70. 2
610	2019/01/03	07: 52: 30	69. 2
611	2019/01/03	07: 52: 31	69. 7
612	2019/01/03	07: 52: 32	69. 2
613	2019/01/03	07: 52: 33	70. 5
614	2019/01/03	07: 52: 34	69. 9
615	2019/01/03	07: 52: 35	68. 9
616	2019/01/03	07: 52: 36	69. 2
617	2019/01/03	07: 52: 37	70. 4
618	2019/01/03	07: 52: 38	71. 7
619	2019/01/03	07: 52: 39	70. 6
620	2019/01/03	07: 52: 40	68. 7
621	2019/01/03	07: 52: 41	68. 0
622	2019/01/03	07: 52: 42	68. 0
623	2019/01/03	07: 52: 43	68. 2
624	2019/01/03	07: 52: 44	66. 9
625	2019/01/03	07: 52: 45	66. 1
626	2019/01/03	07: 52: 46	66. 2
627	2019/01/03	07: 52: 47	66. 6
628	2019/01/03	07: 52: 48	69. 0
629	2019/01/03	07: 52: 49	70. 8
630	2019/01/03	07: 52: 50	66. 6
631	2019/01/03	07: 52: 51	66. 8
632	2019/01/03	07: 52: 52	65. 9
633	2019/01/03	07: 52: 53	65. 9
634	2019/01/03	07: 52: 54	66. 4
635	2019/01/03	07: 52: 55	67. 6
636	2019/01/03	07: 52: 56	66. 7
637	2019/01/03	07: 52: 57	66. 0
638	2019/01/03	07: 52: 58	66. 0
639	2019/01/03	07: 52: 59	66. 2
640	2019/01/03	07: 53: 00	65. 3
641	2019/01/03	07: 53: 01	64. 7
642	2019/01/03	07: 53: 02	64. 6
643	2019/01/03	07: 53: 03	64. 7
644	2019/01/03	07: 53: 04	65. 3
645	2019/01/03	07: 53: 05	64. 8
646	2019/01/03	07: 53: 06	64. 2
647	2019/01/03	07: 53: 07	64. 4
648	2019/01/03	07: 53: 08	65. 2
649	2019/01/03	07: 53: 09	65. 7
650	2019/01/03	07: 53: 10	66. 1
651	2019/01/03	07: 53: 11	67. 8
652	2019/01/03	07: 53: 12	73. 5
653	2019/01/03	07: 53: 13	69. 8
654	2019/01/03	07: 53: 14	68. 8
655	2019/01/03	07: 53: 15	67. 2
656	2019/01/03	07: 53: 16	67. 8
657	2019/01/03	07: 53: 17	66. 8
658	2019/01/03	07: 53: 18	66. 4
659	2019/01/03	07: 53: 19	66. 4
660	2019/01/03	07: 53: 20	65. 5
661	2019/01/03	07: 53: 21	65. 6
662	2019/01/03	07: 53: 22	65. 7
663	2019/01/03	07: 53: 23	67. 4
664	2019/01/03	07: 53: 24	69. 6
665	2019/01/03	07: 53: 25	71. 8
666	2019/01/03	07: 53: 26	72. 8
667	2019/01/03	07: 53: 27	71. 4
668	2019/01/03	07: 53: 28	69. 7
669	2019/01/03	07: 53: 29	69. 7
670	2019/01/03	07: 53: 30	68. 0
671	2019/01/03	07: 53: 31	68. 0
672	2019/01/03	07: 53: 32	68. 9
673	2019/01/03	07: 53: 33	69. 3
674	2019/01/03	07: 53: 34	70. 7
675	2019/01/03	07: 53: 35	71. 3
676	2019/01/03	07: 53: 36	71. 3
677	2019/01/03	07: 53: 37	70. 8
678	2019/01/03	07: 53: 38	71. 0
679	2019/01/03	07: 53: 39	69. 4

680	2019/01/03	07: 53: 40	69. 2
681	2019/01/03	07: 53: 41	69. 1
682	2019/01/03	07: 53: 42	71. 1
683	2019/01/03	07: 53: 43	71. 6
684	2019/01/03	07: 53: 44	70. 7
685	2019/01/03	07: 53: 45	71. 2
686	2019/01/03	07: 53: 46	73. 3
687	2019/01/03	07: 53: 47	73. 8
688	2019/01/03	07: 53: 48	73. 4
689	2019/01/03	07: 53: 49	73. 6
690	2019/01/03	07: 53: 50	72. 7
691	2019/01/03	07: 53: 51	71. 9
692	2019/01/03	07: 53: 52	72. 0
693	2019/01/03	07: 53: 53	72. 4
694	2019/01/03	07: 53: 54	71. 9
695	2019/01/03	07: 53: 55	69. 0
696	2019/01/03	07: 53: 56	67. 8
697	2019/01/03	07: 53: 57	67. 1
698	2019/01/03	07: 53: 58	66. 0
699	2019/01/03	07: 53: 59	66. 6
700	2019/01/03	07: 54: 00	66. 4
701	2019/01/03	07: 54: 01	66. 7
702	2019/01/03	07: 54: 02	66. 1
703	2019/01/03	07: 54: 03	66. 1
704	2019/01/03	07: 54: 04	65. 3
705	2019/01/03	07: 54: 05	64. 8
706	2019/01/03	07: 54: 06	64. 8
707	2019/01/03	07: 54: 07	64. 3
708	2019/01/03	07: 54: 08	64. 3
709	2019/01/03	07: 54: 09	64. 6
710	2019/01/03	07: 54: 10	65. 1
711	2019/01/03	07: 54: 11	65. 3
712	2019/01/03	07: 54: 12	67. 3
713	2019/01/03	07: 54: 13	67. 0
714	2019/01/03	07: 54: 14	67. 0
715	2019/01/03	07: 54: 15	70. 7
716	2019/01/03	07: 54: 16	68. 5
717	2019/01/03	07: 54: 17	68. 2
718	2019/01/03	07: 54: 18	68. 1
719	2019/01/03	07: 54: 19	68. 1
720	2019/01/03	07: 54: 20	67. 3
721	2019/01/03	07: 54: 21	66. 3
722	2019/01/03	07: 54: 22	65. 7
723	2019/01/03	07: 54: 23	65. 5
724	2019/01/03	07: 54: 24	65. 6
725	2019/01/03	07: 54: 25	65. 6
726	2019/01/03	07: 54: 26	66. 3
727	2019/01/03	07: 54: 27	66. 0
728	2019/01/03	07: 54: 28	68. 0
729	2019/01/03	07: 54: 29	71. 2
730	2019/01/03	07: 54: 30	71. 3
731	2019/01/03	07: 54: 31	70. 3
732	2019/01/03	07: 54: 32	69. 2
733	2019/01/03	07: 54: 33	70. 0
734	2019/01/03	07: 54: 34	70. 3
735	2019/01/03	07: 54: 35	70. 8
736	2019/01/03	07: 54: 36	70. 1
737	2019/01/03	07: 54: 37	69. 4
738	2019/01/03	07: 54: 38	67. 7
739	2019/01/03	07: 54: 39	67. 3
740	2019/01/03	07: 54: 40	69. 7
741	2019/01/03	07: 54: 41	71. 1
742	2019/01/03	07: 54: 42	71. 6
743	2019/01/03	07: 54: 43	71. 4
744	2019/01/03	07: 54: 44	71. 9
745	2019/01/03	07: 54: 45	69. 5
746	2019/01/03	07: 54: 46	71. 4
747	2019/01/03	07: 54: 47	72. 1
748	2019/01/03	07: 54: 48	69. 6
749	2019/01/03	07: 54: 49	71. 1
750	2019/01/03	07: 54: 50	71. 4
751	2019/01/03	07: 54: 51	79. 1
752	2019/01/03	07: 54: 52	70. 1
753	2019/01/03	07: 54: 53	68. 7
754	2019/01/03	07: 54: 54	66. 5
755	2019/01/03	07: 54: 55	66. 2
756	2019/01/03	07: 54: 56	67. 0
757	2019/01/03	07: 54: 57	67. 1
758	2019/01/03	07: 54: 58	66. 6
759	2019/01/03	07: 54: 59	66. 0
760	2019/01/03	07: 55: 00	64. 8
761	2019/01/03	07: 55: 01	64. 9
762	2019/01/03	07: 55: 02	65. 1
763	2019/01/03	07: 55: 03	64. 7
764	2019/01/03	07: 55: 04	65. 8
765	2019/01/03	07: 55: 05	66. 1
766	2019/01/03	07: 55: 06	65. 8
767	2019/01/03	07: 55: 07	65. 7
768	2019/01/03	07: 55: 08	66. 2
769	2019/01/03	07: 55: 09	66. 7
770	2019/01/03	07: 55: 10	65. 3
771	2019/01/03	07: 55: 11	65. 4
772	2019/01/03	07: 55: 12	66. 4
773	2019/01/03	07: 55: 13	66. 4
774	2019/01/03	07: 55: 14	66. 3
775	2019/01/03	07: 55: 15	66. 6
776	2019/01/03	07: 55: 16	67. 1
777	2019/01/03	07: 55: 17	66. 2
778	2019/01/03	07: 55: 18	66. 7

779	2019/01/03	07:55:19	65.8
780	2019/01/03	07:55:20	66.5
781	2019/01/03	07:55:21	67.9
782	2019/01/03	07:55:22	67.0
783	2019/01/03	07:55:23	67.6
784	2019/01/03	07:55:24	68.1
785	2019/01/03	07:55:25	68.1
786	2019/01/03	07:55:26	67.7
787	2019/01/03	07:55:27	67.7
788	2019/01/03	07:55:28	66.6
789	2019/01/03	07:55:29	66.0
790	2019/01/03	07:55:30	67.1
791	2019/01/03	07:55:31	69.3
792	2019/01/03	07:55:32	68.2
793	2019/01/03	07:55:33	68.0
794	2019/01/03	07:55:34	67.0
795	2019/01/03	07:55:35	67.9
796	2019/01/03	07:55:36	69.5
797	2019/01/03	07:55:37	71.8
798	2019/01/03	07:55:38	73.4
799	2019/01/03	07:55:39	73.2
800	2019/01/03	07:55:40	74.1
801	2019/01/03	07:55:41	71.7
802	2019/01/03	07:55:42	72.3
803	2019/01/03	07:55:43	72.4
804	2019/01/03	07:55:44	70.6
805	2019/01/03	07:55:45	71.1
806	2019/01/03	07:55:46	70.1
807	2019/01/03	07:55:47	70.3
808	2019/01/03	07:55:48	70.2
809	2019/01/03	07:55:49	71.0
810	2019/01/03	07:55:50	71.9
811	2019/01/03	07:55:51	71.3
812	2019/01/03	07:55:52	71.1
813	2019/01/03	07:55:53	72.3
814	2019/01/03	07:55:54	71.8
815	2019/01/03	07:55:55	74.0
816	2019/01/03	07:55:56	74.0
817	2019/01/03	07:55:57	73.9
818	2019/01/03	07:55:58	74.1
819	2019/01/03	07:55:59	73.2
820	2019/01/03	07:56:00	70.8
821	2019/01/03	07:56:01	69.7
822	2019/01/03	07:56:02	69.2
823	2019/01/03	07:56:03	72.1
824	2019/01/03	07:56:04	72.5
825	2019/01/03	07:56:05	71.6
826	2019/01/03	07:56:06	69.1
827	2019/01/03	07:56:07	68.9
828	2019/01/03	07:56:08	69.6
829	2019/01/03	07:56:09	70.0
830	2019/01/03	07:56:10	70.1
831	2019/01/03	07:56:11	69.8
832	2019/01/03	07:56:12	70.4
833	2019/01/03	07:56:13	69.5
834	2019/01/03	07:56:14	68.3
835	2019/01/03	07:56:15	68.8
836	2019/01/03	07:56:16	68.7
837	2019/01/03	07:56:17	70.8
838	2019/01/03	07:56:18	72.5
839	2019/01/03	07:56:19	66.7
840	2019/01/03	07:56:20	66.6
841	2019/01/03	07:56:21	66.5
842	2019/01/03	07:56:22	66.7
843	2019/01/03	07:56:23	66.8
844	2019/01/03	07:56:24	66.2
845	2019/01/03	07:56:25	65.8
846	2019/01/03	07:56:26	66.7
847	2019/01/03	07:56:27	65.5
848	2019/01/03	07:56:28	65.5
849	2019/01/03	07:56:29	64.7
850	2019/01/03	07:56:30	64.4
851	2019/01/03	07:56:31	64.2
852	2019/01/03	07:56:32	64.8
853	2019/01/03	07:56:33	64.5
854	2019/01/03	07:56:34	64.7
855	2019/01/03	07:56:35	65.5
856	2019/01/03	07:56:36	65.1
857	2019/01/03	07:56:37	64.3
858	2019/01/03	07:56:38	64.3
859	2019/01/03	07:56:39	65.0
860	2019/01/03	07:56:40	64.6
861	2019/01/03	07:56:41	64.9
862	2019/01/03	07:56:42	65.2
863	2019/01/03	07:56:43	65.5
864	2019/01/03	07:56:44	66.3
865	2019/01/03	07:56:45	67.4
866	2019/01/03	07:56:46	68.9
867	2019/01/03	07:56:47	69.1
868	2019/01/03	07:56:48	68.6
869	2019/01/03	07:56:49	67.6
870	2019/01/03	07:56:50	67.9
871	2019/01/03	07:56:51	72.3
872	2019/01/03	07:56:52	73.5
873	2019/01/03	07:56:53	77.6
874	2019/01/03	07:56:54	73.9
875	2019/01/03	07:56:55	73.9
876	2019/01/03	07:56:56	74.1
877	2019/01/03	07:56:57	73.5

878	2019/01/03	07: 56: 58	74. 1
879	2019/01/03	07: 56: 59	73. 4
880	2019/01/03	07: 57: 00	73. 3
881	2019/01/03	07: 57: 01	72. 6
882	2019/01/03	07: 57: 02	72. 6
883	2019/01/03	07: 57: 03	72. 1
884	2019/01/03	07: 57: 04	71. 8
885	2019/01/03	07: 57: 05	71. 6
886	2019/01/03	07: 57: 06	71. 4
887	2019/01/03	07: 57: 07	69. 8
888	2019/01/03	07: 57: 08	71. 0
889	2019/01/03	07: 57: 09	72. 6
890	2019/01/03	07: 57: 10	71. 5
891	2019/01/03	07: 57: 11	71. 1
892	2019/01/03	07: 57: 12	69. 6
893	2019/01/03	07: 57: 13	67. 7
894	2019/01/03	07: 57: 14	67. 8
895	2019/01/03	07: 57: 15	69. 5
896	2019/01/03	07: 57: 16	68. 8
897	2019/01/03	07: 57: 17	68. 4
898	2019/01/03	07: 57: 18	66. 0
899	2019/01/03	07: 57: 19	64. 9
900	2019/01/03	07: 57: 20	64. 0

Attachment C

Roadway Construction Noise Model Results

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 05/11/2020
 Case Description: Tapestry Hotel Project

**** Receptor #1 ****

Description	Baselines (dBA)			
	Land Use	Daytime	Evening	Night
Ricca Children's Learning Center	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	225.0	0.0
Excavator	No	40		80.7	225.0	0.0
Jackhammer	Yes	20		88.9	225.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)	
-----										-----	
Night	Calculated (dBA)				Day		Evening				
	Day		Evening		Night						
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Dozer	N/A	N/A	68.6	64.6	N/A	N/A	N/A	N/A	N/A	N/A	
Excavator	N/A	N/A	67.6	63.7	N/A	N/A	N/A	N/A	N/A	N/A	
Jackhammer	N/A	N/A	75.8	68.8	N/A	N/A	N/A	N/A	N/A	N/A	
Total	N/A	N/A	75.8	71.1	N/A	N/A	N/A	N/A	N/A	N/A	

**** Receptor #2 ****

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Holiday Inn Hotel	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	600.0	0.0
Excavator	No	40		80.7	600.0	0.0
Jackhammer	Yes	20		88.9	600.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Calculated (dBA)				Day		Evening		
	Leq	Lmax	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax
Dozer	N/A	N/A	60.1	56.1	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	59.1	55.1	N/A	N/A	N/A	N/A	N/A
Jackhammer	N/A	N/A	67.3	60.3	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	67.3	62.6	N/A	N/A	N/A	N/A	N/A

Attachment D

Traffic Noise Prediction Model Results

FHWA RD-77-108
Traffic Noise Prediction Model
Data Input Sheet

Project Name : Tapestry Hotel Project
Project Number : 18-06469
Modeled Condition : Existing plus Project

Surface Reflection: CNEL
Assessment Metric: Hard
Peak ratio to ADT: 10.00
Traffic Desc. (Peak or ADT) : ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	K-Factor
		From	To										
1	SR-55	Dyer Road	Edinger Avenue	289,361	65	215	95.00	3.00	2.00	80.00	10.00	10.00	
2	South Grand Avenue	SR-55 SB Off-Ramp	Brookhollow Drive	25,761	45	300	95.00	3.00	2.00	80.00	10.00	10.00	

FHWA RD-77-108
Traffic Noise Prediction Model
Predicted Noise Levels

Project Name : Tapestry Hotel Project
Project Number : 18-06469
Modeled Condition : Existing plus Project
Assessment Metric: Hard

Segment	Roadway	Segment		Noise Levels, dBA Hard					Distance to Traffic Noise Level Contours, Feet				
		From	To	Auto	MT	HT	Total	75 dB	70 dB	65 dB	60 dB	55 dB	50 dB
1	SR-55	Dyer Road	Edinger Avenue	79.9	71.0	72.8	81	876	2,770	8,759	27,697	87,587	276,974
2	South Grand Avenue	SR-55 SB Off-Ramp	Brookhollow Drive	63.4	56.6	59.3	65	33	104	329	1,040	3,289	10,402

Attachment E

Vibration Analysis

Groundborne Noise and Vibration Modeling

Notes

The reference distance is measured from the nearest anticipated point of construction equipment to the nearest structure.

Equipment	Reference Level Inputs			
	PPV _{ref} (in/sec)	Lv _{ref} (VdB)	RMS _{ref} (in/sec)	Reference Distance
Large bulldozer	0.089	87	0.022	25
Loaded trucks	0.076	83	0.014	25
Jack hammer	0.035	79	0.009	25
Small bulldozer	0.003	58	0.001	25

Equipment	Vibration Level at Receiver			
	Distance (feet)	PPV _x (in/sec)	Lv _x (VdB)	RMS _x (in/sec)
Large bulldozer	75	0.0266	77	0.007
Loaded trucks	75	0.0227	73	0.004
Jack hammer	75	0.0105	69	0.003
Small bulldozer	75	0.0009	48	0.000

Source

California Department of Transportation (Caltrans). 2020. Transportation and Construction Vibration Guidance Manual. April 2020. Available at: <https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf>
Last Updated: 4/24/2020

Groundborne Noise and Vibration Modeling

Notes

The reference distance is measured from the nearest anticipated point of construction equipment to the nearest structure.

Equipment	Reference Level Inputs			
	PPV _{ref} (in/sec)	Lv _{ref} (VdB)	RMS _{ref} (in/sec)	Reference Distance
Large bulldozer	0.089	87	0.022	25
Loaded trucks	0.076	83	0.014	25
Jack hammer	0.035	79	0.009	25
Small bulldozer	0.003	58	0.001	25

Equipment	Vibration Level at Receiver			
	Distance (feet)	PPV _x (in/sec)	Lv _x (VdB)	RMS _x (in/sec)
Large bulldozer	125	0.0152	72	0.004
Loaded trucks	125	0.0129	68	0.002
Jack hammer	125	0.0060	64	0.002
Small bulldozer	125	0.0005	43	0.000

Source

California Department of Transportation (Caltrans). 2020. Transportation and Construction Vibration Guidance Manual. April 2020. Available at: <https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf>
Last Updated: 4/24/2020

Groundborne Noise and Vibration Modeling

Notes

The reference distance is measured from the nearest anticipated point of construction equipment to the nearest structure.

Equipment	Reference Level Inputs			
	PPV _{ref} (in/sec)	Lv _{ref} (VdB)	RMS _{ref} (in/sec)	Reference Distance
Large bulldozer	0.089	87	0.022	25
Loaded trucks	0.076	83	0.014	25
Jack hammer	0.035	79	0.009	25
Small bulldozer	0.003	58	0.001	25

Equipment	Vibration Level at Receiver			
	Distance (feet)	PPV _x (in/sec)	Lv _x (VdB)	RMS _x (in/sec)
Large bulldozer	175	0.0105	68	0.003
Loaded trucks	175	0.0089	64	0.002
Jack hammer	175	0.0041	60	0.001
Small bulldozer	175	0.0004	39	0.000

Source

California Department of Transportation (Caltrans). 2020. Transportation and Construction Vibration Guidance Manual. April 2020. Available at: <https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf>
Last Updated: 4/24/2020