

Town of Moraga

# **General Plan 2040 Appendices**

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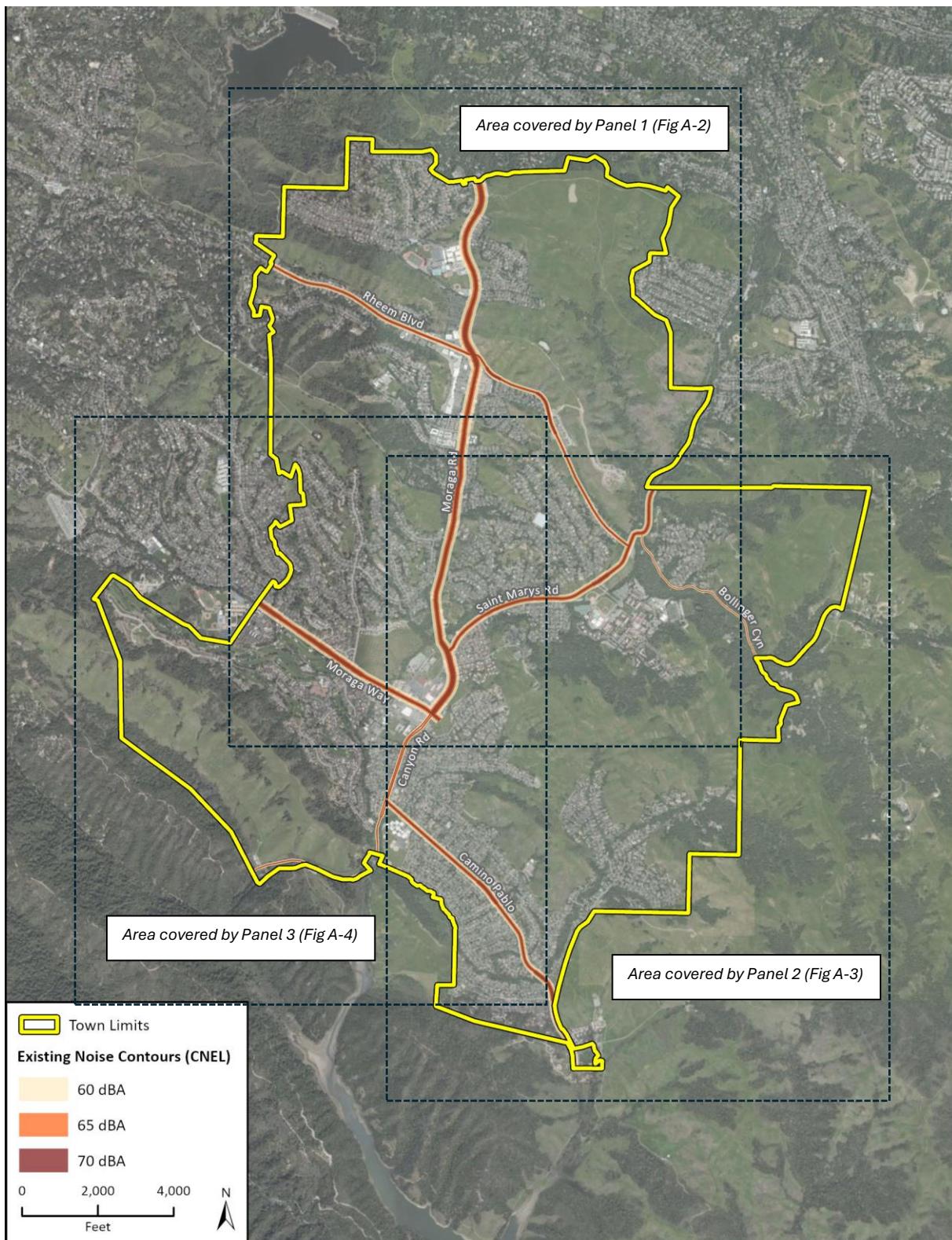
## Appendix A: 2020 and 2040 Noise Contour Diagrams

Transportation-related noise conditions in Moraga were estimated using a computer model developed by the Federal Highway Administration. The model considers traffic volumes, vehicle speed, and roadway geometry to determine the likely noise levels at various distances from freeways and major thoroughfares. The outcome is expressed using a contour diagram showing the expected ambient daily noise levels in 5 decibel interval bands. Consistent with General Plan noise modeling best practices, contour mapping is limited to the town's major transportation corridors.

Figure A-1 shows existing noise contours using traffic data collected in 2022. Because of the map scale, Figures A-2 through A-4 have been prepared to show this data at a finer level of detail (three maps are used to cover the entire town). The dark-colored linear areas running along major roadways indicate locations where transportation-related noise levels currently exceed 70 dBA. In most cases, this noise level is only exceeded on parcels with frontage along the roadways. Adjacent to these areas, the linear orange and beige areas show locations where transportation-related noise levels currently exceed 65 dBA and 60 dBA respectively.

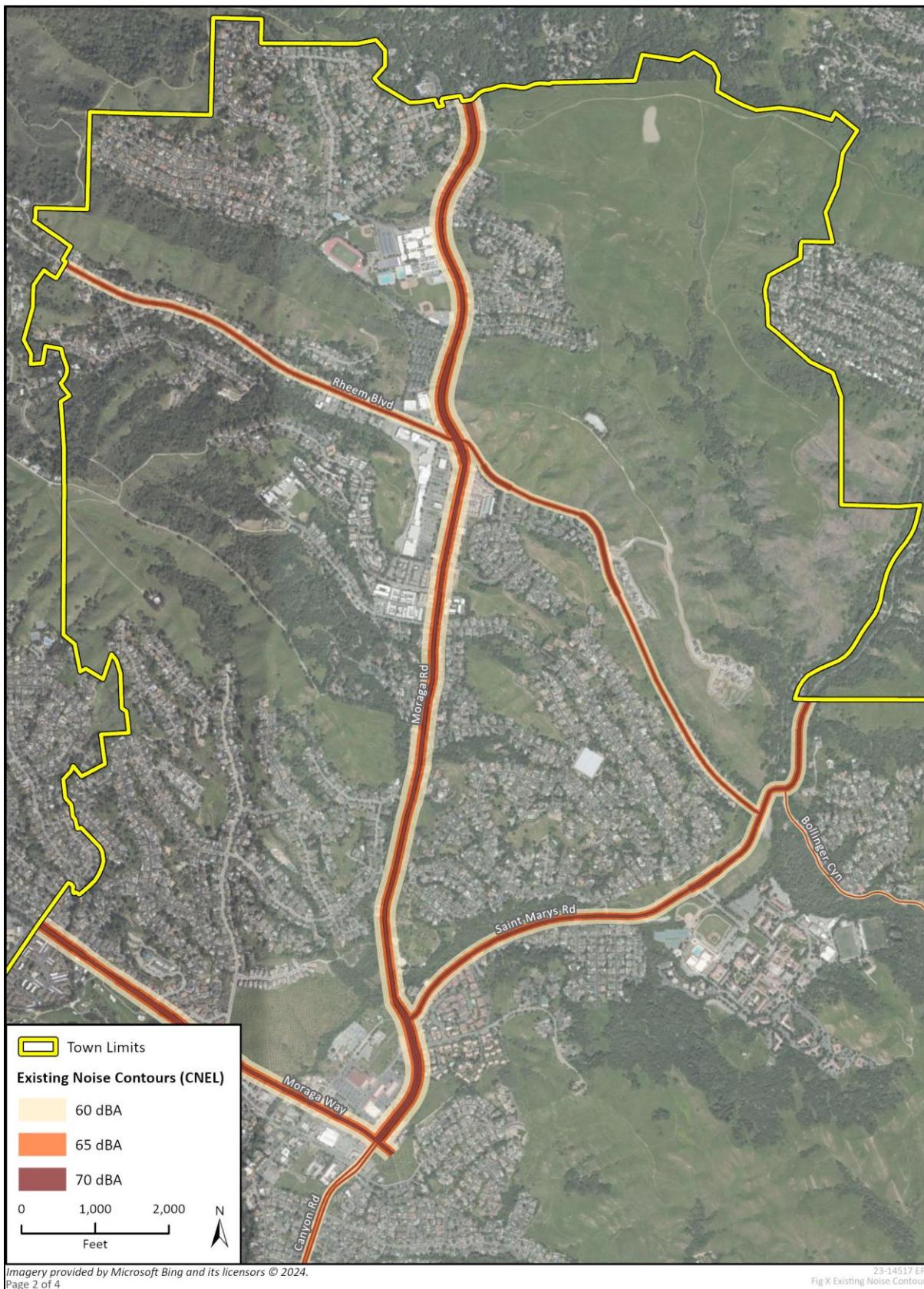
Figure A-5 shows projected noise levels for 2040, using the traffic forecasts from the Transportation Element of the General Plan. Because of the map scale, Figures A-6 through A-8 have been prepared to show this data at a finer level of detail (three maps are used to cover the entire town). The projected noise contours for 2040 are cumulative measurements that consider increased regional traffic volumes as well as the sum of traffic from all development that may added in Moraga during the lifetime of the General Plan. There are only minor differences between the 2022 and 2040 maps, with daily traffic noise at most locations projected to increase by less than one decibel.

The 2040 diagram does not consider potential reductions in noise that may occur due to changes in road design and vehicle technology between now and 2040. It is possible that a shift to zero emission vehicles or the introduction of new road surface materials could lead to quieter conditions by 2040. Nonetheless the contour diagrams provide an indication of where noise studies may be required when new noise sensitive uses such as new housing are proposed. New development in these areas may be subject to special requirements for sound proofing, insulation, and site planning to maintain acceptable interior noise levels.

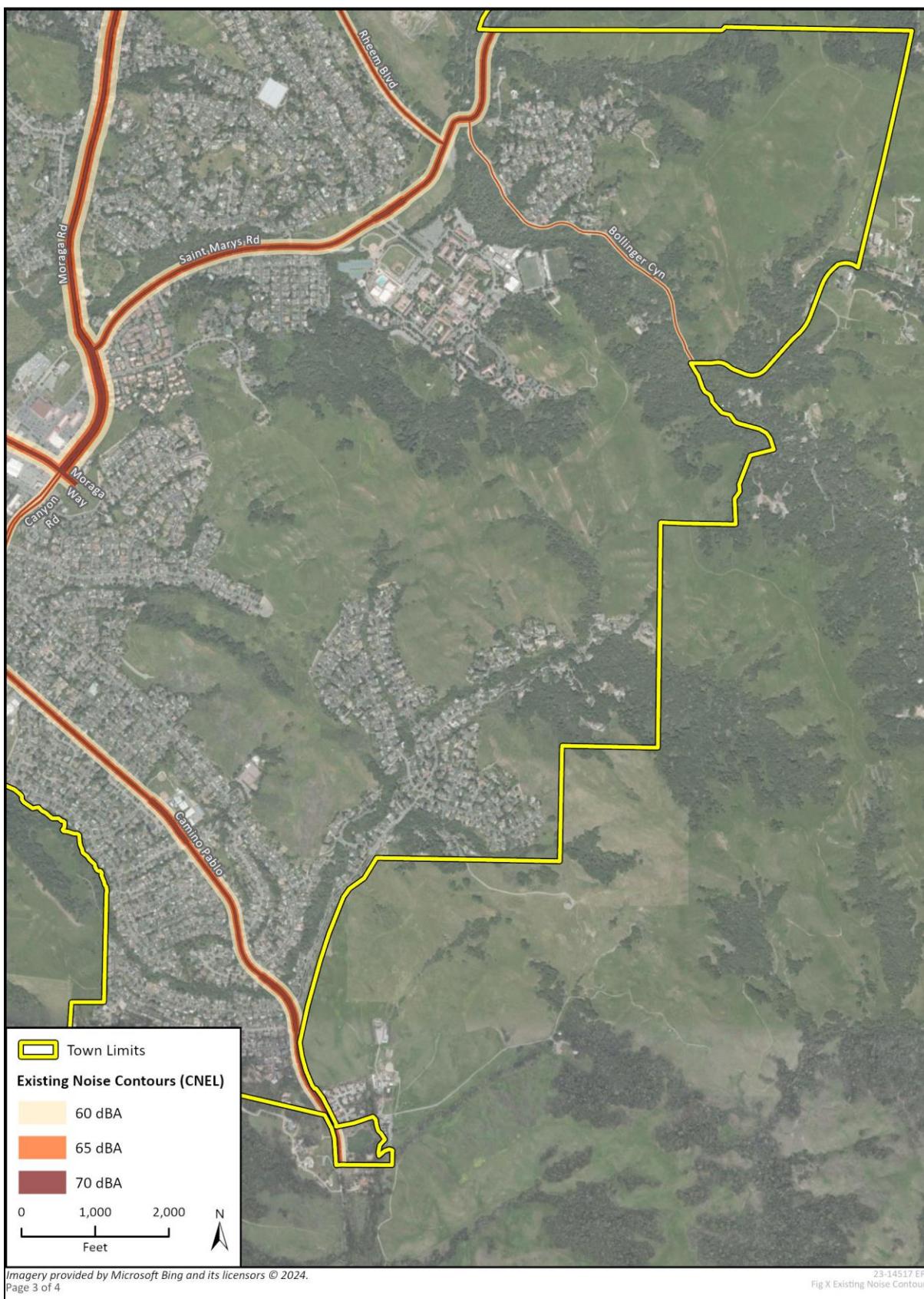


Source: Fehr and Peers, 2022. Rincon Consultants, 2024. Imagery provided by Microsoft Bing and its licensors, 2024

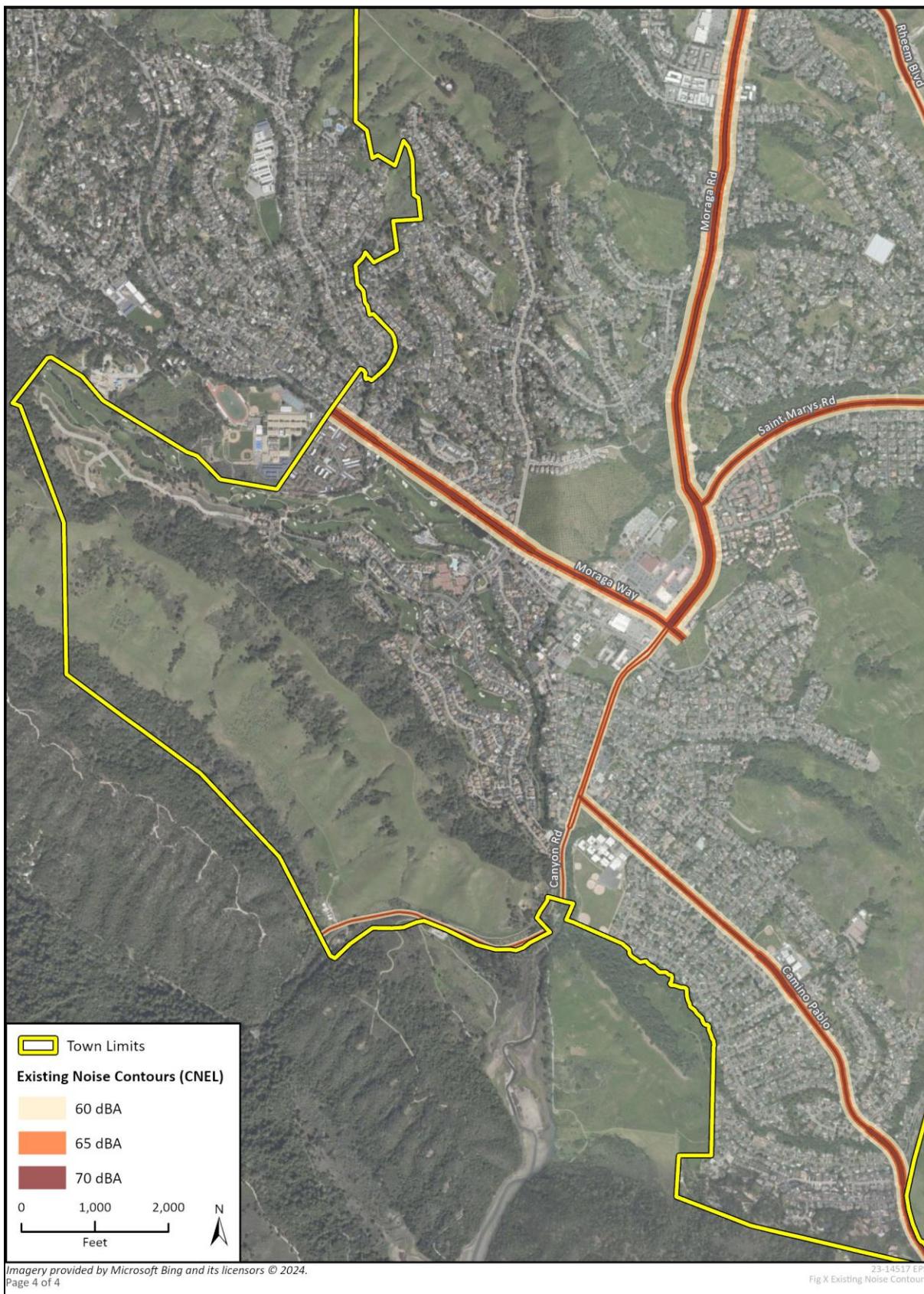
**Figure A-1: Existing (2022) Noise Contours**



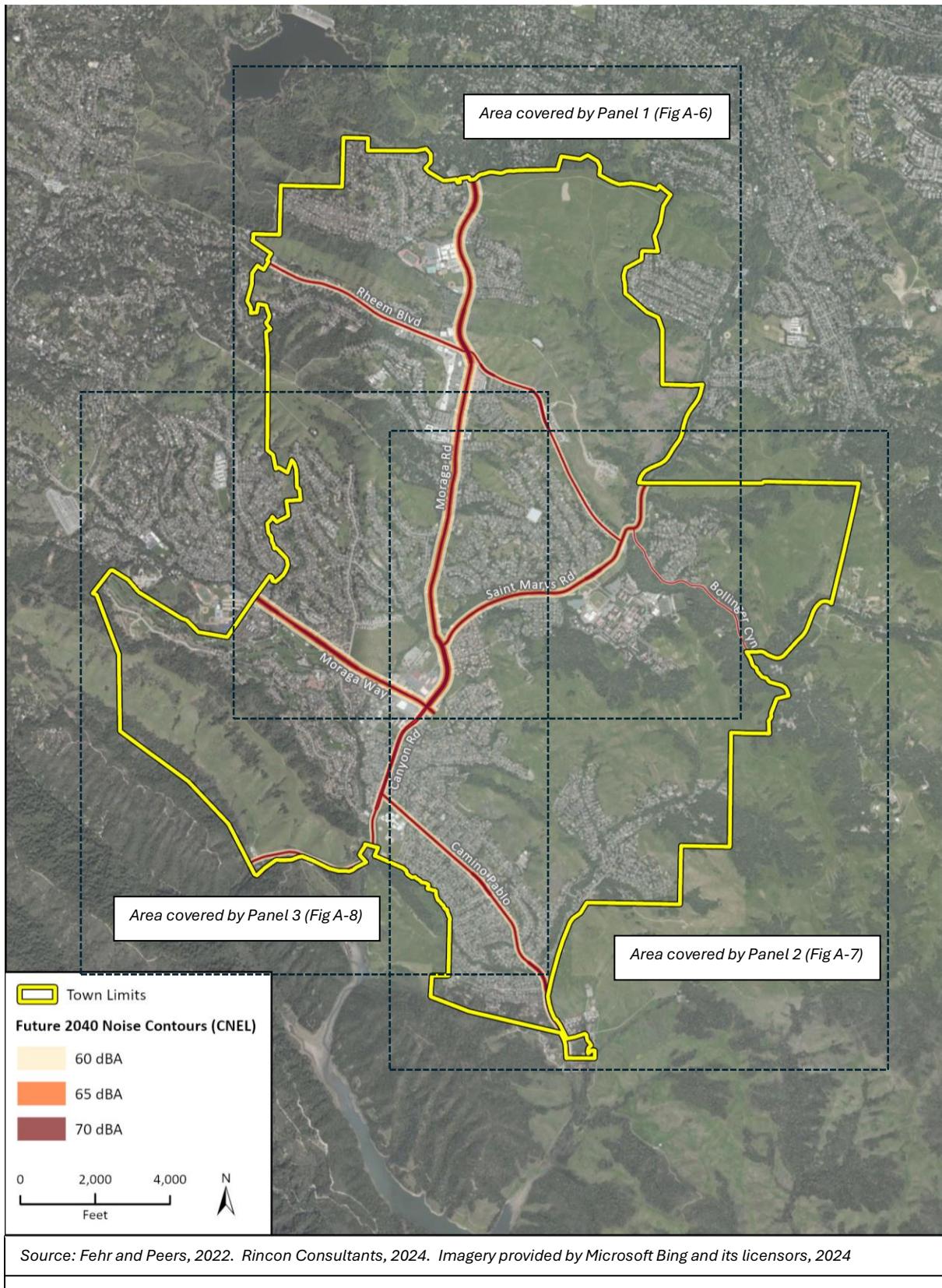
**Figure A-2: Existing (2022) Noise Contours -Panel 1 of 3**



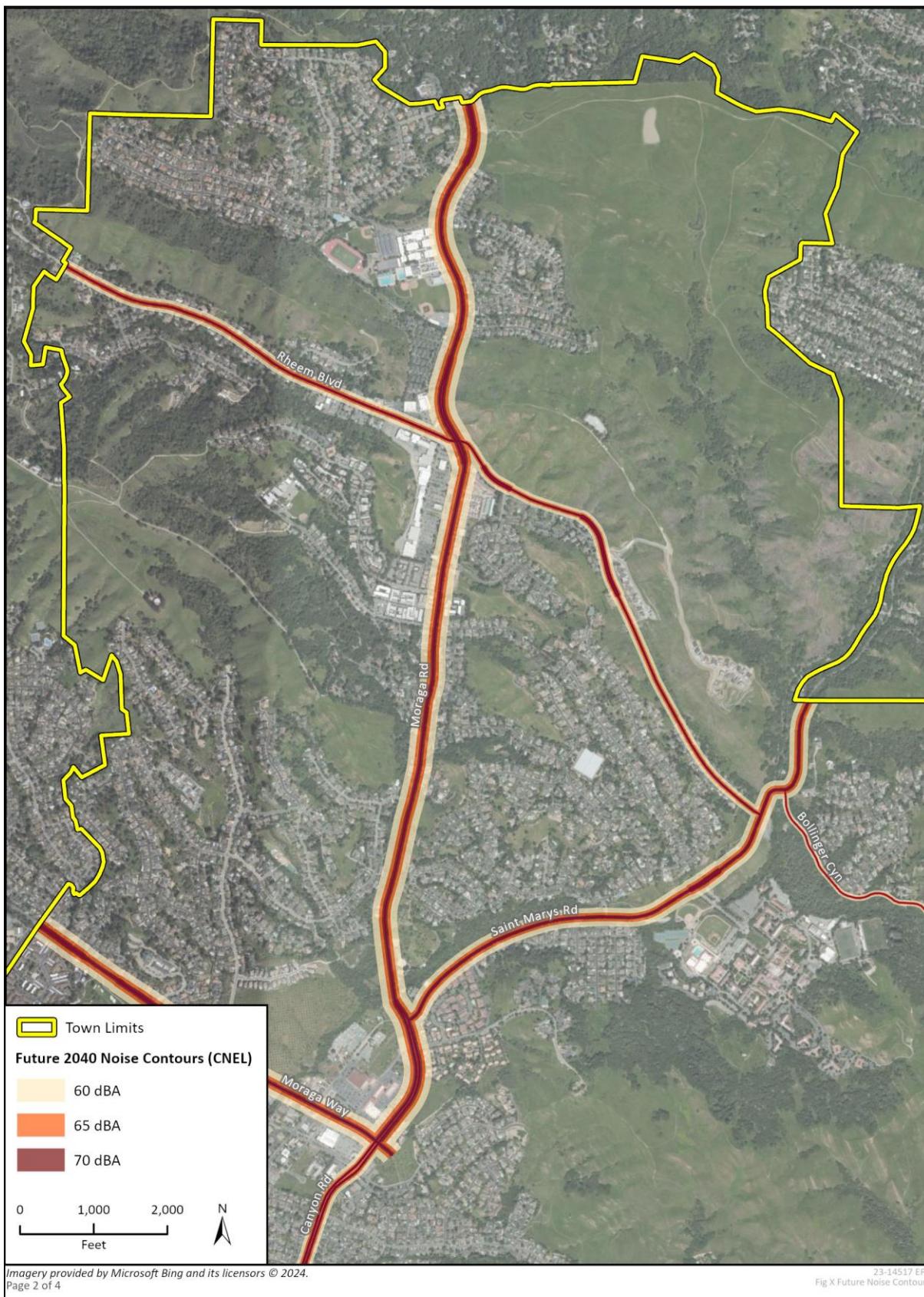
**Figure A-3: Existing (2022) Noise Contours -Panel 2 of 3**



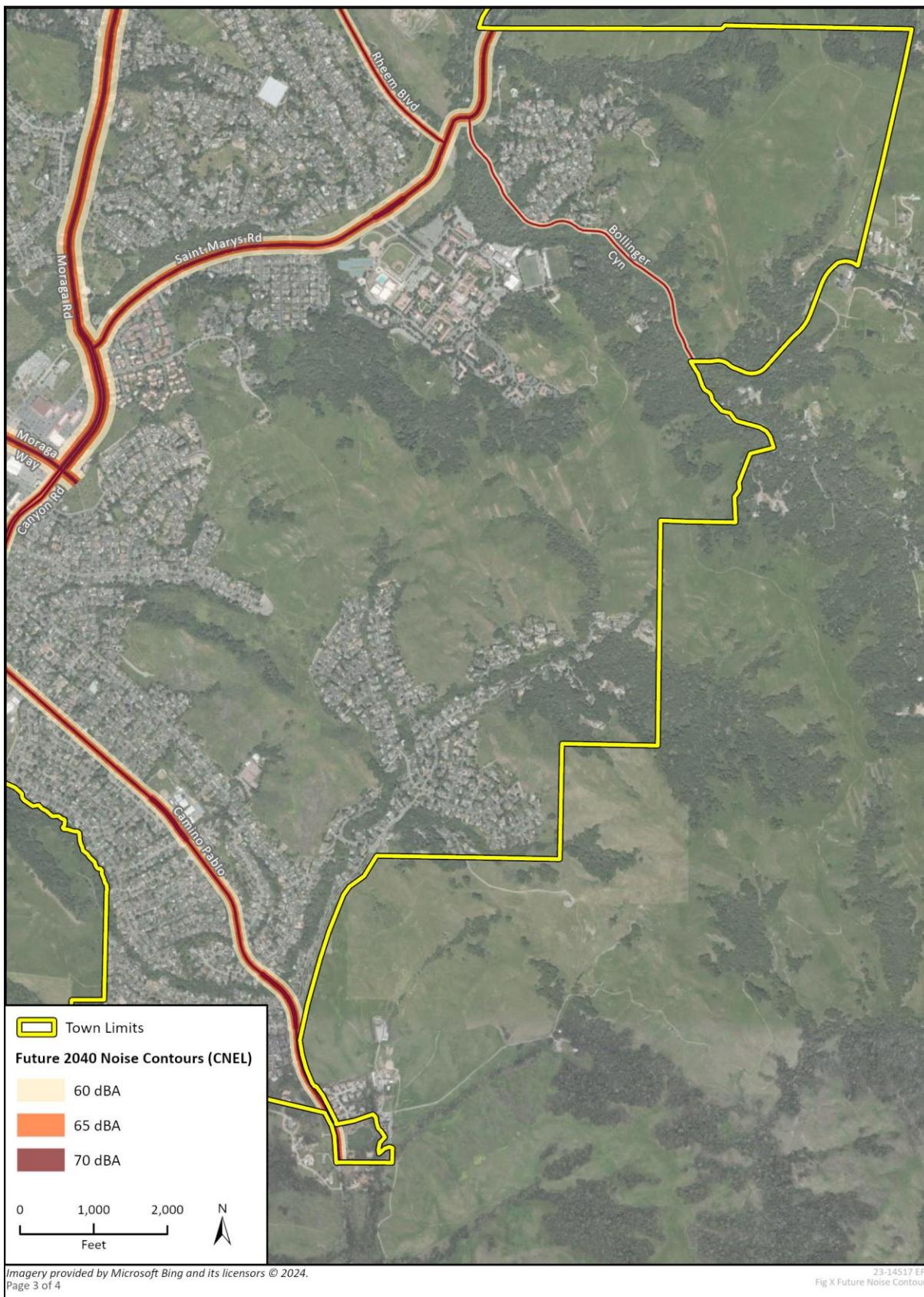
**Figure A-4: Existing (2022) Noise Contours -Panel 3 of 3**



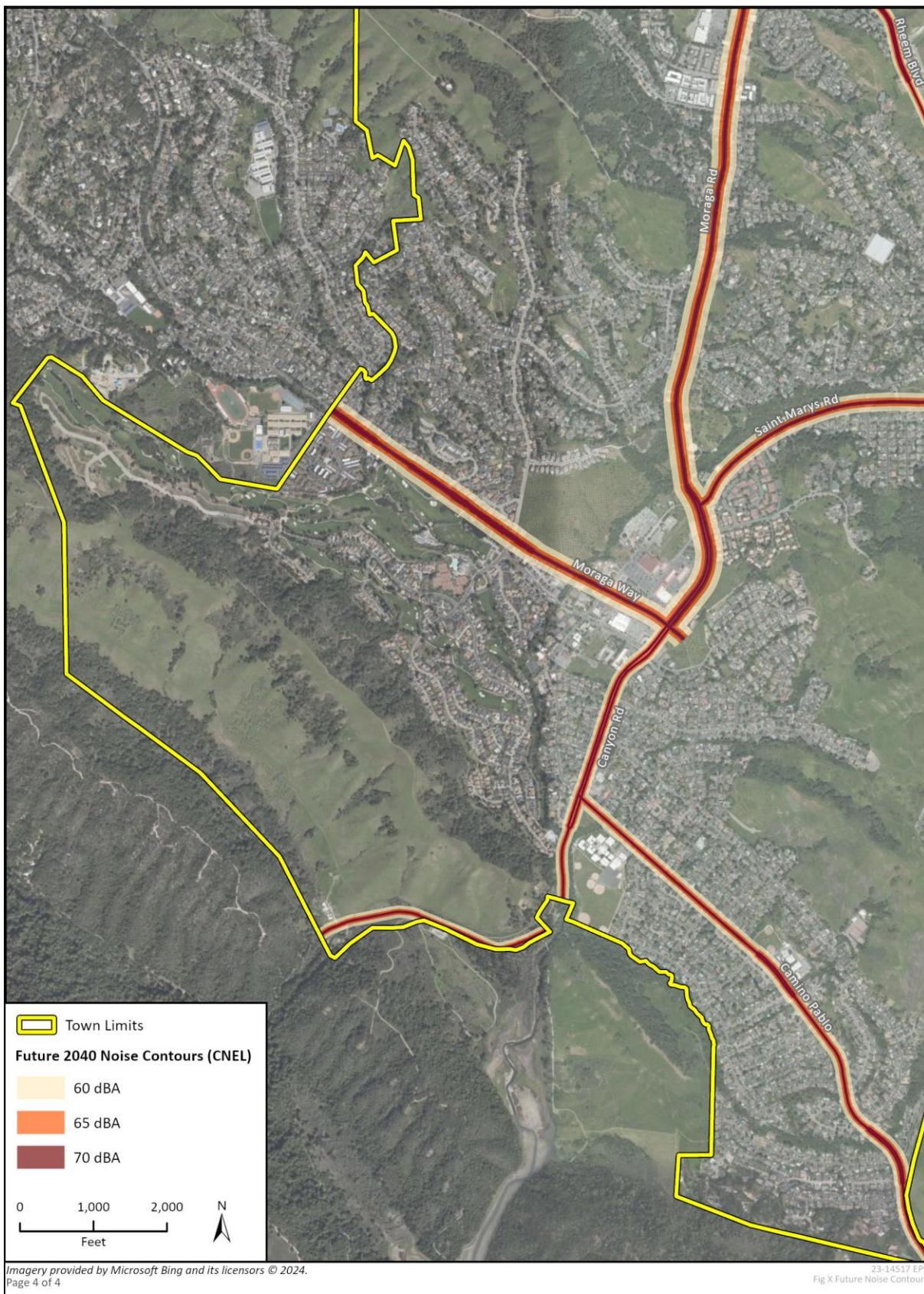
**Figure A-5: Projected (2040) Noise Contours**



**Figure A-6: Projected (2040) Noise Contours -Panel 1 of 3**



**Figure A-7: Projected (2040) Noise Contours -Panel 2 of 3**



**Figure A-8: Projected (2040) Noise Contours -Panel 3 of 3**

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## Appendix B:

### Supplemental Transportation Information

#### 1. List of Arterial and Collector Streets

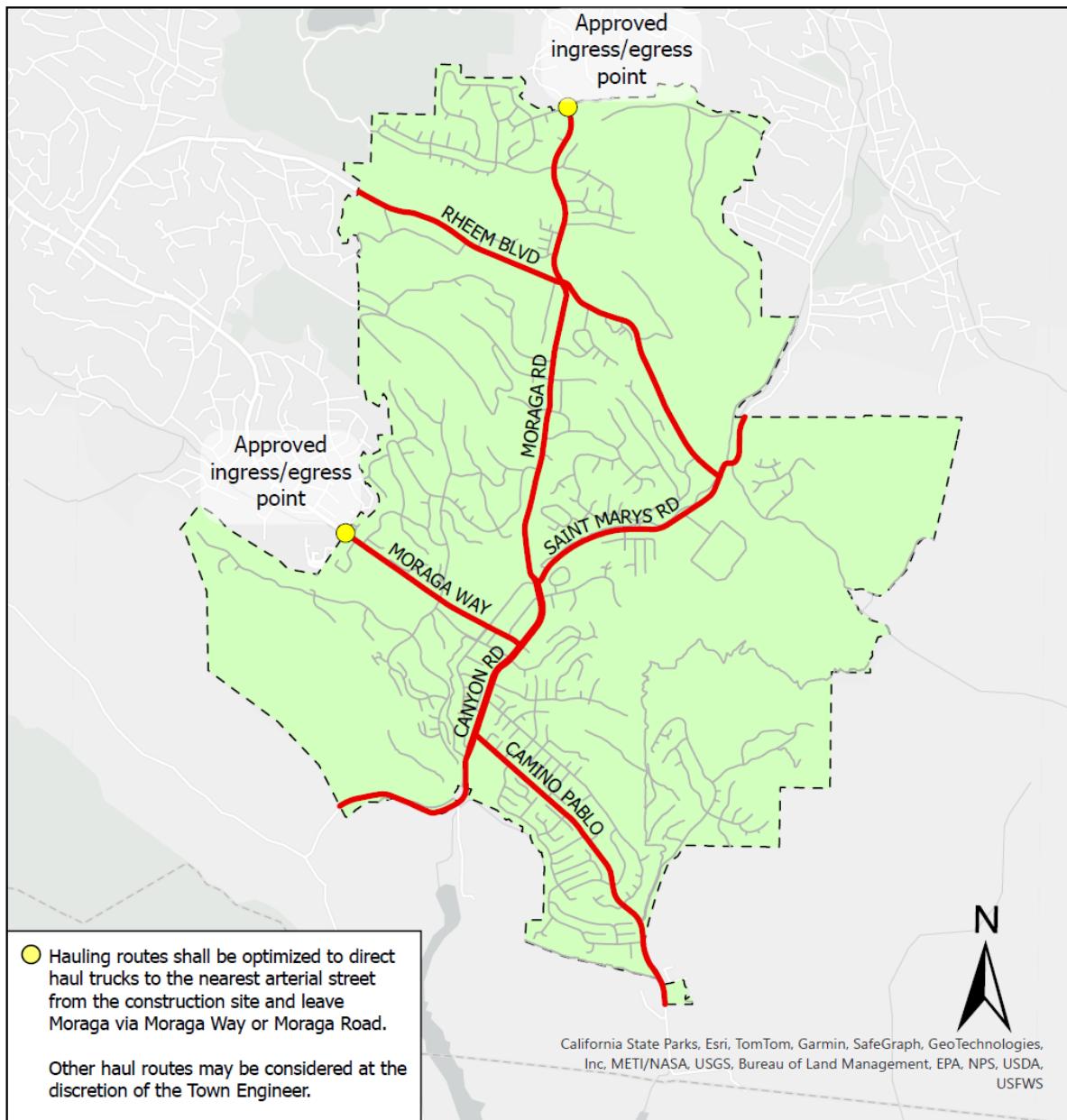
<b>Arterials</b>
Moraga Road/ Canyon Road
Moraga Way
Rheem Boulevard
Saint Mary's Road
<b>Collectors</b>
Alta Mesa Drive
Ascot Drive
Augusta Drive
Bollinger Canyon Road
Buckingham Drive
Calle La Mesa/ Calle La Montana
Camino Pablo
Camino Ricardo
Campolindo Drive
Corliss Drive
Country Club Drive
Derby Lane/ Draeger Drive
Donald Drive (two segments)
Fernwood Drive
Hardie Drive
Larch Avenue
Lynwood Place / Greenfield Drive
Natalie Drive
Rimer Drive
Saint Andrews Drive
Sanders Drive
Schofield Drive / Harold Drive
School Street
Sullivan Drive
Tharp Drive
Via Granada
Wandel Drive

Source: Town of Moraga, 2024

## 2. Truck and Hauling Route Map



### Truck and Hauling Route



## APPENDIX C:

### ACTION PLAN MATRIX

Program I.D.	Name	Lead Department	Related Goals and Policies	Timeline			
				Ongoing	Immediate (< 1 yr)	Short Term (1-3 yrs)	Long Term (4+ yrs)
<b>LAND USE ELEMENT (LU-)</b>							
A	Use the General Plan Diagram to guide land use planning	Planning	LU-1.1, LU-1.3, LU-1.10, LU-1.13, LU-2.1, LU-2.2, LU-3.1, LU-3.2, LU-4.4	■			
A1	<i>Consider changes to General Plan mapping protocol for developed subdivisions in open space areas</i>	Planning	LU-1.11, LU-2.1, LU-2.2, LU-2.4				■
B	Use zoning ordinance to govern permitted uses, development standards and procedures.	Planning	Goals LU-1 through LU-4	■			
B1	<i>Amend the PD Regulations to reduce the number of hearings and simplify the process</i>	Planning	LU-1.6, LU-1.9		■		
B2	<i>Update the R-6 zoning standards to reflect built conditions</i>	Planning	LU-3.2			■	
B3	<i>Consider changes to CUP requirements to facilitate business development</i>	Planning/ Town Manager	LU-4.1, LU-4.2, LU-4.9			■	
B4	<i>Review and update on-site parking standards</i>	Planning/ Public Works	T-6.2		■		
C	Implement development review procedures	Planning	Goals LU-1 through LU-4; Goals CD-4 and CD-5	■			
C1	<i>Assess development review to identify and remove barriers</i>	Planning	Goal H-4			■	
D	Conduct focused planning for Moraga Center and Rheem Park PDAs	Planning	Goal LU-4, Goal CD-5	■			
D1	<i>Amend R-12 and R-20 development standards</i>	Planning	LU-4.3, LU-4.4		■		
D2	<i>Develop small lot and townhome standards</i>	Planning	LU-3.2, LU-4.3		■		
E	Implement CEQA/ environmental review	Planning	LU-1.2, LU-1.7, LU-1.8, LU-1.9, Goal CON-1	■			
F	Leverage PDA designation to apply for grants	Planning/ Finance	LU-1.1, LU-1.2, Goal LU-4, Goal CD-5	■			
G	Collect Development Impact Fees	Planning/ Finance/Other	G-2.1, G-3.1, OSP-3.4	■			
G1	<i>Periodically review development fees to ensure fees align with actual costs</i>	Planning/ Town Mgr./ Finance	G-2.1, G-3.1, OSP-3.4			■	
H	Continue to require hillside development permits	Planning/ Public Works	LU-1.7, LU-1.8, CD-1.5, CD-1.6, Goal OSP-2	■			
H1	<i>Revise HDP requirements for improvements that do not affect sloped land</i>	Planning/ Public Works	OSP-2.2, OSP-2.3			■	
I	Implement the Building Code	Other (County)	CON-5.2, S-3.6, S-4.6	■			
J	Implement Code Enforcement Procedures	Other (County)	LU-3.4, CD-4.1, CD-4.2	■			
K	Provide technical assistance to developers	Planning	EV-1.1, EV-1.2, EV-4.1	■			

Program I.D.	Name	Lead Department	Related Goals and Policies	Timeline			
				Ongoing	Immediate (< 1 yr)	Short Term (1-3 yrs)	Long Term (4+ yrs)
L	Consider annexation of land in sphere of influence/ coordinate with LAFCo	Planning	LU-1.1	■			
<b>COMMUNITY DESIGN ELEMENT (CD-)</b>							
A	Use residential design guidelines to express the Town's design standards and expectations	Planning	LU-1.12, LU-3.1, LU-3.2, LU-4.3, Goal CD-4, Goal CD-5, Goal CD-7	■			
A1	<i>Amend the guidelines to ensure they are objective and add provisions for multi-family and mixed use</i>	Planning	CD-4.6, CD-4.7, CD-5.1,		■		
B	Continue to Implement Objective Design Standards for Moraga Center and Rheem Park	Planning	CD-5.7, CD-5.8	■			
C	Maintain standards for scenic corridors to protect and enhance views	Planning	Goal CD-3	■			
C1	<i>Revise the scenic corridor standards to ensure that they support development and reinvestment in Moraga Center and Rheem Park</i>	Planning	CD-3.2, CD-3.5		■		
D	Maintain design review procedures	Planning	Goals CD-4 and CD-5	■			
D1	<i>Review practices and procedures to remove constraints and simplify the home improvement process</i>	Planning	CD-4.2, CD-4.4, LU-3.3			■	
E	Support wayfinding, signage, and streetscape plans	Planning, Public Works	Goal CD-2	■			
E1	<i>Prepare a Public Realm Plan for the Rheem Park area</i>	Planning	CD-2.5, CD-5.4, CD-5.5, CD-5.8			■	
E2	<i>Evaluate the feasibility of a Landscaping and Lighting Assessment District</i>	Town Manager, Finance	CD-2.7, CD-3.4, CD-5.2, CD-5.7, CD-5.8				■
F	Support Rule 20 utility undergrounding projects	Public Works, Planning	CD-2.3	■			
G	Implement wireless facility regulations	Planning, Public Works	CD-2.4	■			
H	Implement water-efficient landscaping regulations	Planning	CD-7.6, CON-2.8	■			
I	Continue historic preservation practices and procedures	Planning	Goal CD-6	■			
J	Implement cultural resource protection standard operating procedures	Planning	CD-6.2, CD-6.3	■			
K	Implement tribal cultural resource protection standard operating procedures	Planning	CD-6.9	■			
L	Implement paleontological resource protection standard operating procedures	Planning	CD-6.9	■			
M	Implement CalGreen (green building code) standards	Planning, Other (County)	Goal CD-7, Goal CON-5, CON-6.5	■			
<b>TRANSPORTATION ELEMENT (T-)</b>							
A	Adopt and periodically update a Capital Improvements Program with prioritized transportation projects	Public Works/ Town Manager	T-1.2, T-1.4, T-3.1, T-4.2, T-4.3, T-4.4, T-5.1, T-5.2, G-1.7	■			

Program I.D.	Name	Lead Department	Related Goals and Policies	Timeline			
				Ongoing	Immediate (< 1 yr)	Short Term (1-3 yrs)	Long Term (4+ yrs)
A1	Develop a Transportation Action Plan that coordinates ongoing transportation initiatives and planned improvements and priorities	Public Works	Goals T-1 through T-7		■		
B	Implement and periodically update plans for safe orderly evacuation in the event of an emergency	Police	T-4.3, T-4.5, T-7.3, S-1.4, S-1.9	■			
B1	Work with CCTA and Lamorinda jurisdictions to prepare an evacuation plan for Moraga	Planning, Police, Public Works, Other	T-4.3, T-4.5, T-7.3, S-1.4, S-1.9		■		
C	Implement the Local Roadway Safety Plan	Public Works	T-1.1, T-1.2, T-1.3, T-1.4, T-4.4	■			
C1	Prepare Traffic Calming Design Guidelines	Public Works	T-1.4, T-4.8			■	
D	Implement the Walk   Bike Plan	Public Works	T-5.1, T-5.2, T-5.3, T-5.4, T-5.5, T-5.6	■			
D1	Update the Walk   Bike Plan	Public Works	T-5.1, T-5.2				■
D2	Apply for RM3 funds for trail planning and improvement	Public Works/ Parks & Rec	T-5.5, OSP-4.1, OSP-4.2		■		
E	Implement Livable Moraga Road Improvements	Public Works	T-3.1, T-3.2, T-3.5	■			
F	Conduct Safe Routes to School Plans and Related Improvements	Public Works, Police	T-1.1, T-1.2, T-1.3, G-3.3	■			
F1	Conduct Field Audits and Assessments at each school	Public Works	T-1.3			■	
F2	Develop street maps and SRTS improvements	Public Works	T-1.3				■
G	Engineering review of development applications	Public Works	LU-4.6, T-2.1, T-4.6, T-4.7, T-6.4	■			
H	Require traffic studies for new development	Planning, Public Works	T-4.6, T-2.1, G-2.3	■			
H1	Prepare Local Traffic Assessment Guidelines	Public Works	T-2.1, T-4.6			■	
I	Continue to collect development impact fees for traffic impacts	Planning, Public Works	LU-4.6, T-2.2, G-2.1, G-2.3	■			
J	Continue maintain a TSM Ordinance as required by Measure J	Planning, Public Works	T-2.3, G-1.8	■			
K	Continue the Pavement Management Program	Public Works	T-4.2	■			
L	Continue to monitor traffic volumes on major roads	Public Works, Other	T-4.1, T-4.3, T-4.4	■			
M	Continue implementation of public works engineering standards	Public Works	T-3.1, T-3.2, T-4.1, T-5.1, T-5.2	■			
M1	Prepare engineering cross-sections for use on new and improved streets	Public Works	T-3.1, T-4.1				■
N	Advocate for transit improvements	Town Manager, Town Council	T-5.8, T-5.9, T-5.10	■			
N-1	Update the Lamorinda Service Plan	Public Works	T-5.8, T-5.9, T-5.10				■
O	Work with the County to improve special needs transportation services	Public Works, Town Manager	T-5.11	■			
P	Participate in multi-jurisdictional planning as required by Measure J, including the CCTA Southwest Area Committee	Public Works, Town Manager, Town Council	T-7.1, T-7.2, G-1.2, G-1.3, G-1.4, G-1.5	■			

Program I.D.	Name	Lead Department	Related Goals and Policies	Timeline			
				Ongoing	Immediate (< 1 yr)	Short Term (1-3 yrs)	Long Term (4+ yrs)
P-1	Participate in Lamorinda Action Plan Implementation	Public Works	T-7.1, G-1.1, G-1.2, G-1.3			■	
Q	Explore renewal/expansion of streetlight and median assessment district	Public Works, Town Manager	T-3.1, T-3.2, CD-2.5, CD-2.6, CD-2.7	■			

### ECONOMIC VITALITY ELEMENT (EV-)

A	Expand economic development initiatives	Town Manager	Goals EV-1 to EV-5	■			
A1	Prepare a local Economic Development Strategy	Town Manager	Goals EV-1 to EV-5		■		
A2	Consider part time staffing for economic development or business concierge programs	Town Manager	EV-1.1, EV-1.2, EV-1.3				■
A3	Provide a business assistance page on the Town's website	Planning, Town Manager	EV-1.3, EV-1.4			■	
B	Work with developers, property owners, and local businesses to revitalize the shopping centers	Planning	EV-1.5, Goal EV-4	■			
C	Explore new financing mechanisms to facilitate infrastructure improvements	Town Manager, Finance	EV-4.1, EV-4.6, EV-5.1, G-1.12	■			
D	Apply for grants to facilitate revitalization of the commercial centers	Town Manager, Planning	Goal EV-4	■			
E	Consider joint development and public-private partnership opportunities	Town Manager, Planning	EV-1.5, EV-3.2	■			
F	Encourage the donation of goods and services by the private sector	Town Manager	Goal G-4	■			
G	Support partnerships and collaborations with Saint Mary's College	Town Manager	Goal EV-3	■			

### OPEN SPACE AND PARKS ELEMENT (OSP-)

A	Continue to implement the Moraga Open Space Ordinance	Planning	LU-2.1, LU-2.2, LU-2.3, OSP-1.6, OSP-2.1, OSP-2.2, OSP-2.3	■			
A1	Update the MOSO Guidelines as they pertain to infrastructure	Planning, Public Works	OSP-2.1, OSP-2.5			■	
B	Continue to implement Hillside and Ridgeline regulations	Planning	LU-1.7, CD-1.5, CD-1.6, OSP-2.4	■			
C	Continue to implement grading regulations	Planning, Public Works	LU-1.8, CD-1.5, CD-3.5, OSP-2.2, OSP-2.3	■			
C1	Amend grading ordinance provisions as they relate to permitting and hearing requirements	Planning, Public Works	OSP-2.2, OSP-2.3			■	
D	Explore strategies to protect and manage open spaces and natural areas	Parks & Rec, Planning	LU-2.1, LU-2.4, LU-2.5, CD-1.1, OSP-1.1, OSP-1.3, OSP-1.4	■			
E	Maintain a parks master plan to evaluate needs and plan for improvements	Parks & Rec	Goals OSP-3, OSP-4, and OSP-5	■			
E1	Update the Parks & Recreation Master Plan and expand its scope to include open space and trails	Parks & Rec	Goals OSP-3, OSP-4, and OSP-5		■		
E2	Work with EBRPD and other stakeholders to close the gap on the L-M Trail along School Street	Parks & Rec, Public Works	OSP-4.2, T-5.5			■	
F	Implement parkland dedication and in-lieu fee requirements	Planning, Parks & Rec	OSP-3.2, OSP-3.4, G-2.1	■			

Program I.D.	Name	Lead Department	Related Goals and Policies	Timeline			
				Ongoing	Immediate (< 1 yr)	Short Term (1-3 yrs)	Long Term (4+ yrs)
F1	<i>Update the per capita parkland service standards and related fees and dedication requirements</i>	Planning, Parks & Rec	OSP-3.4		■		
G	Schedule year-round recreational programming and maintain public information for residents	Parks & Rec	Goal OSP-5	■			
H	Maintain MOUs and other agreements with the school districts and Saint Mary's College to expand access to recreational facilities.	Town Manager, Parks & Rec	OSP-3.14, OSP-5.2	■			
<b>CONSERVATION ELEMENT (CON-)</b>							
A	Maintain and periodically update a Climate Action Plan	Planning	LU-1.2, Goal CD-7, Goal CON-5, Goal CON-6	■			
A1	<i>Update the GHG Emissions baseline for Moraga</i>	Planning	CON-6.1, CON-6.7		■		
A2	<i>Update the Climate Action Plan</i>	Planning	Goals CON-5, CON-6			■	
B	Implement the California Building Standards Code	Planning, Other (County)	CON-5.2, CON-6.5	■			
C	Continue Community Choice Aggregation Agreements for renewable energy supply	Town Manager	CON-5.3, CON-5.5	■			
D	Require biological resource surveys where sensitive species are likely to occur	Planning	CON-1.1 to CON-1.3, CON-1.5 to CON-1.8	■			
E	Implement County standards for the design and maintenance of stream channels	Public Works	CON-1.3, CON-1.4	■			
F	Implement County Clean Water Program requirements	Public Works	Goal CON-2	■			
G	Implement County C.3 stormwater retention requirements	Public Works, Planning	CON-2.2, CON-2.3, S-5.3	■			
H	Implement the Storm Drain Management and Master Plan	Public Works	CON-2.2, CON-2.3, S-5.3	■			
I	Implement the Stormwater Management Ordinance, including stormwater pollution prevention plan requirements for new construction	Public Works	CON-2.2, CON-2.4, CON-2.6	■			
J	Implement the Municipal Recycled Water Ordinance	Public Works	CON-2.9	■			
K	Implement and monitor the Moraga Tree Preservation Ordinance	Public Works, Planning, Parks & Rec	CON-1.9, CON-1.10	■			
L	Implement BAAQMD measures to attain state and federal air quality standards	Planning, Public Works	Goal CON-3	■			
M	Implement solid waste recycling and reduction measures	Other	Goal CON-4	■			
N	Support efforts by partner organizations to expand public awareness of conservation issues	Other	CON-4.2, CON-6.7, CON-6.9	■			
O	Maintain a Town sustainability website	Planning	CON-6.7	■			

Program I.D.	Name	Lead Department	Related Goals and Policies	Timeline		
				Ongoing	Immediate (<1 yr)	Short-Term (1-3 yrs)
<b>SAFETY ELEMENT (S-)</b>						
A	Implement and periodically update the LHMP	Planning	S-1.1	■		
A1	<i>Adopt the 2024-2029 LHMP</i>	<i>Planning</i>	<i>S-1.1</i>		■	
B	Maintain Mutual Aid Agreements related to emergency preparedness	Town Manager, Police, Other	S-1.4, S-1.6, S-1.8, S-7.10	■		
C	Periodically revise and update the Emergency Operations Plan	Town Manager, Police	S-1.4, S-1.5, S-7.1, S-7.11	■		
C1	<i>Develop a Communications Resiliency Plan</i>	<i>Town Manager, Police, Other</i>	<i>S-7.7</i>			■
D	Work with MOFD on Fire Code updates and implementation	Town Manager, Planning, Other	S-1.6, S-3.1, S-3.5, S-3.6, S-3.7	■		
E	Work with MOFD on vegetation management	Town Manager, Parks & Rec, Other	S-3.4, S-3.10, S-3.11, S-3.12	■		
F	Implement the Moraga Orinda Wildfire Action Plan	Town Manager, Other	Goal S-3	■		
F1	<i>Participate in discussion forums and advocacy to address the fire insurance crisis</i>	<i>Town Manager, Town Council</i>	<i>S-3.1, S-3.2, S-3.3</i>		■	
G	Adopt Geological Hazard Abatement Districts to mitigate geologic hazards in new development	Planning, Public Works, Town Mgr	S-4.2, S-4.3	■		
H	Implement building codes that mitigate seismic hazards	Planning, Other	S-4.1, S-4.2, S-4.6	■		
H1	<i>Inventory soft-story buildings in Moraga</i>	<i>Planning, Other</i>	<i>S-4.6, S-4.8</i>			■
I	Require geotechnical studies for new development as required by the MMC	Planning, Public Works	S-4.1	■		
J	Maintain flood hazard regulations to minimize risks to life and property in flood prone areas	Public Works	S-5.1, S-5.2, S-5.3	■		
K	Work with County Environmental Health to ensure the safe management of hazardous materials	Public Works, Planning, Police	S-6.1, S-6.2, S-6.3, S-6.4	■		
L	Maintain noise provisions in the Municipal Code	Town Manager	S-8.1, S-8.5, S-8.6	■		
L1	<i>Update the Moraga Noise Ordinance</i>	<i>Planning</i>	<i>S-8.1</i>		■	
M	Require acoustical studies for new development	Planning	S-8.3, S-8.4, S-8.5	■		
N	Support public outreach and education on environmental hazards and emergency prep.	Town Manager, Planning, Police, Other	S-1.4, S-7.3	■		
<b>GROWTH MANAGEMENT AND GOVERNANCE ELEMENT (G-)</b>						
A	Comply with Measure J growth management requirements	Planning	G-1.1, G-1.6, G-1.7, G-1.8, G-1.10, G-1.11, G-2.1	■		
B	Conduct an annual review of the General Plan	Planning	G-1.1, G-1.10	■		
C	Adopt an annual Town budget	Town Manager, Finance	G-4.1	■		
D	Coordinate with school district	Town Manager, Planning	G-3.1, G-3.2, G-3.3	■		

Program I.D.	Name	Lead Department	Related Goals and Policies	Timeline		
				Ongoing	Short-Term (<1 yr)	Long-Term (4+ yrs)
E	Coordinate with utility providers	Town Manager, Public Works	G-2.6	<input checked="" type="checkbox"/>		
F	Coordinate with adjacent jurisdictions	Town Manager, Planning	G-1.5, G-1.11, G-2.5	<input checked="" type="checkbox"/>		
G	Assess Town facilities to identify Capital Improvement Program needs	Public Works, Parks & Rec	G-1.7, G-4.1	<input checked="" type="checkbox"/>		
H	Perform regular maintenance and repair of Town facilities	Public Works, Parks & Rec	G-1.7	<input checked="" type="checkbox"/>		
I	Provide regular outreach to HOAs and neighborhood groups	Town Manager, Town Clerk	G-4.4, G-4.5	<input checked="" type="checkbox"/>		
J	Encourage citizen participation in Town activities	Town Manager, Town Clerk, Parks & Rec, Planning	G-4.4, G-4.5	<input checked="" type="checkbox"/>		

