APPENDIX I.

Noise – FHWA Modeling Output (for Mobile Noise Sources)

1-Sunset (Existing) @ Weiler Res

* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

1-Sunset (Existing) @ Weiler Res

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	10.0
Average automobile speed (mph):	25.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	0.0
Average heavy truck speed (mph):	0.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: soft

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Weiler Res

Distance from center of 12-ft wide, single lane roadway (ft):	544.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	18.4

1-Sunset (Existing + Project) @ Weiler Res

* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

1-Sunset (Existing + Project) @ Weiler Res

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	88.0
Average automobile speed (mph):	25.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	4.0
Average heavy truck speed (mph):	25.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * BARRIER INFORMATION * * * *

Distance from center of 12-ft wide, single lane roadway to barrier (ft):	98.4
Barrier height (ft):	6.6

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface:	hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Weiler Res

Distance from center of 12-ft wide, single lane roadway (ft):	544.0
A-weighted Hourly Equivalent Sound Level with Barrier (dBA):	40.6
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	42.5
A-weighted Barrier Insertion Loss (dBA):	1.9

1-Sunset (Existing) @ Flamingo H

* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

1-Sunset (Existing) @ Flamingo H

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	10.0
Average automobile speed (mph):	25.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	0.0
Average heavy truck speed (mph):	0.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: soft

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Flamingo Hotel

Distance from center of 12-ft wide, single lane roadway (ft):	272.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	23.5

1-Sunset (Existing + Project) @ Flamingo H

* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

1-Sunset (Existing + Project) @ Flamingo H

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	88.0
Average automobile speed (mph):	25.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	4.0
Average heavy truck speed (mph):	25.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: soft

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Flamingo Hotel

Distance from center of 12-ft wide, single lane roadway (ft):	272.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	40.1

2-On-site Rd @ Beer Garden (Existing + Project) @ Weiler Res
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2-On-site Rd @ Beer Garden (Existing + Project) @ Weiler Res

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	78.0
Average automobile speed (mph):	15.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	4.0
Average heavy truck speed (mph):	15.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * BARRIER INFORMATION * * * *

Distance from center of 12-ft wide, single lane roadway to barrier (ft):	98.4
Barrier height (ft):	6.6

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Weiler Res

Distance from center of 12-ft wide, single lane roadway (ft):	476.0
A-weighted Hourly Equivalent Sound Level with Barrier (dBA):	42.5
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	43.5
A-weighted Barrier Insertion Loss (dBA):	1.0

2-On-site Rd @ Beer Garden (Existing + Project) @ Flamingo H
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

2-On-site Rd @ Beer Garden (Existing + Project) @ Flamingo H

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	78.0
Average automobile speed (mph):	15.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	4.0
Average heavy truck speed (mph):	15.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: soft

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Flamingo Hotel

Distance from center of 12-ft wide, single lane roadway (ft):	170.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	44.4

3-On-site Rd @ Loading Dock (Existing + Project) @ Weiler Res
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

3-On-site Rd @ Loading Dock (Existing + Project) @ Weiler Res

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	92.0
Average automobile speed (mph):	15.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	4.0
Average heavy truck speed (mph):	15.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * BARRIER INFORMATION * * * *

Distance from center of 12-ft wide, single lane roadway to barrier (ft):	32.8
Barrier height (ft):	6.6

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Weiler Res

Distance from center of 12-ft wide, single lane roadway (ft):	60.0
A-weighted Hourly Equivalent Sound Level with Barrier (dBA):	50.2
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	52.9
A-weighted Barrier Insertion Loss (dBA):	2.7

3-On-site Rd @ Loading Dock (Existing + Project) @ Flamingo H
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

3-On-site Rd @ Loading Dock (Existing + Project) @ Flamingo H

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	92.0
Average automobile speed (mph):	15.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	4.0
Average heavy truck speed (mph):	15.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * BARRIER INFORMATION * * * *

Distance from center of 12-ft wide, single lane roadway to barrier (ft):	98.4
Barrier height (ft):	32.8

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Flamingo Hotel

Distance from center of 12-ft wide, single lane roadway (ft):	536.0
A-weighted Hourly Equivalent Sound Level with Barrier (dBA):	31.6
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	43.0
A-weighted Barrier Insertion Loss (dBA):	11.4

4-On-site Rd @ Staff Parking (Existing + Project) @ Weiler Res
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

4-On-site Rd @ Staff Parking (Existing + Project) @ Weiler Res

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	64.0
Average automobile speed (mph):	15.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	0.0
Average heavy truck speed (mph):	0.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Weiler Res

Distance from center of 12-ft wide, single lane roadway (ft):	85.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	41.4

4-On-site Rd @ Staff Parking (Existing + Project) @ Flamingo H
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

4-On-site Rd @ Staff Parking (Existing + Project) @ Flamingo H

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	64.0
Average automobile speed (mph):	15.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	0.0
Average heavy truck speed (mph):	0.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * BARRIER INFORMATION * * * *

Distance from center of 12-ft wide, single lane roadway to barrier (ft):	98.4
Barrier height (ft):	32.8

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface:	hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Flamingo Hotel

Distance from center of 12-ft wide, single lane roadway (ft):	536.0
A-weighted Hourly Equivalent Sound Level with Barrier (dBA):	20.3
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	32.6
A-weighted Barrier Insertion Loss (dBA):	12.3

5-On-site Red @ Visitor Parking (Existing + Project) @ Weiler Res
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

5-On-site Rd @ Visitor Parking (Existing + project) @ Weiler Res

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	14.0
Average automobile speed (mph):	25.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	0.0
Average heavy truck speed (mph):	0.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: soft

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Weiler Res

Distance from center of 12-ft wide, single lane roadway (ft):	300.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	24.2

5-On-site Rd @ Visitor Parking (Existing + Project) @ Flamingo H
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

5-On-site Rd @ Visitor Parking (Existing + Project) @ Flamingo H

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	14.0
Average automobile speed (mph):	25.0
Medium truck volume (v/h):	0.0
Average medium truck speed (mph):	0.0
Heavy truck volume (v/h):	0.0
Average heavy truck speed (mph):	0.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: soft

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Flamingo Hotel

Distance from center of 12-ft wide, single lane roadway (ft):	350.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	23.0

6-Broadway (Existing) @ Weiler Res
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Noise Modeling Results 6-Broadway (Existing) @ Weiler Res

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2371.0
Average automobile speed (mph):	40.0
Medium truck volume (v/h):	132.0
Average medium truck speed (mph):	40.0
Heavy truck volume (v/h):	132.0
Average heavy truck speed (mph):	40.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * BARRIER INFORMATION * * * *

Distance from center of 12-ft wide, single lane roadway to barrier (ft):	98.4
Barrier height (ft):	13.1

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Closest Weiler Residence

Distance from center of 12-ft wide, single lane roadway (ft):	860.0
A-weighted Hourly Equivalent Sound Level with Barrier (dBA):	51.7
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	58.8
A-weighted Barrier Insertion Loss (dBA):	7.1

6-Broadway (Existing + Project) @ Weiler Res
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Noise Modeling Results 6-Broadway (Existing + Project) @ Weiler Res

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2456.0
Average automobile speed (mph):	40.0
Medium truck volume (v/h):	136.0
Average medium truck speed (mph):	40.0
Heavy truck volume (v/h):	137.0
Average heavy truck speed (mph):	40.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * BARRIER INFORMATION * * * *

Distance from center of 12-ft wide, single lane roadway to barrier (ft):	98.4
Barrier height (ft):	13.1

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Nearest Weiler residence

Distance from center of 12-ft wide, single lane roadway (ft):	860.0
A-weighted Hourly Equivalent Sound Level with Barrier (dBA):	51.8
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	58.9
A-weighted Barrier Insertion Loss (dBA):	7.1

6-Broadway (Existing) @ Flamingo H
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Noise Modeling Results 6-Broadway (Existing) @ Flamingo H

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2371.0
Average automobile speed (mph):	40.0
Medium truck volume (v/h):	132.0
Average medium truck speed (mph):	40.0
Heavy truck volume (v/h):	132.0
Average heavy truck speed (mph):	40.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Flamingo Hotel

Distance from center of 12-ft wide, single lane roadway (ft):	40.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	73.7

6-Broadway (Existing + Project) @ Flamingo H
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Noise Modeling Results 6-Broadway (Existing + Project) @ Flamingo H

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2456.0
Average automobile speed (mph):	40.0
Medium truck volume (v/h):	136.0
Average medium truck speed (mph):	40.0
Heavy truck volume (v/h):	137.0
Average heavy truck speed (mph):	40.0
Bus volume (v/h):	0.0
Average bus speed (mph):	0.0
Motorcycle volume (v/h):	0.0
Average Motorcycle speed (mph):	0.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Flamingo Hotel

Distance from center of 12-ft wide, single lane roadway (ft):	40.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	73.8

Mobile Source Noise Modeling Locations (PM Peak Hours)

Lost Coast Brewery

Location Notes

1. 544 ft. to residences
   272 ft. to hotel
   Barrier for residences
   No barrier for hotel
   25 m.p.h.
   10+82 = 92 trips
   (including 4 truck trips)

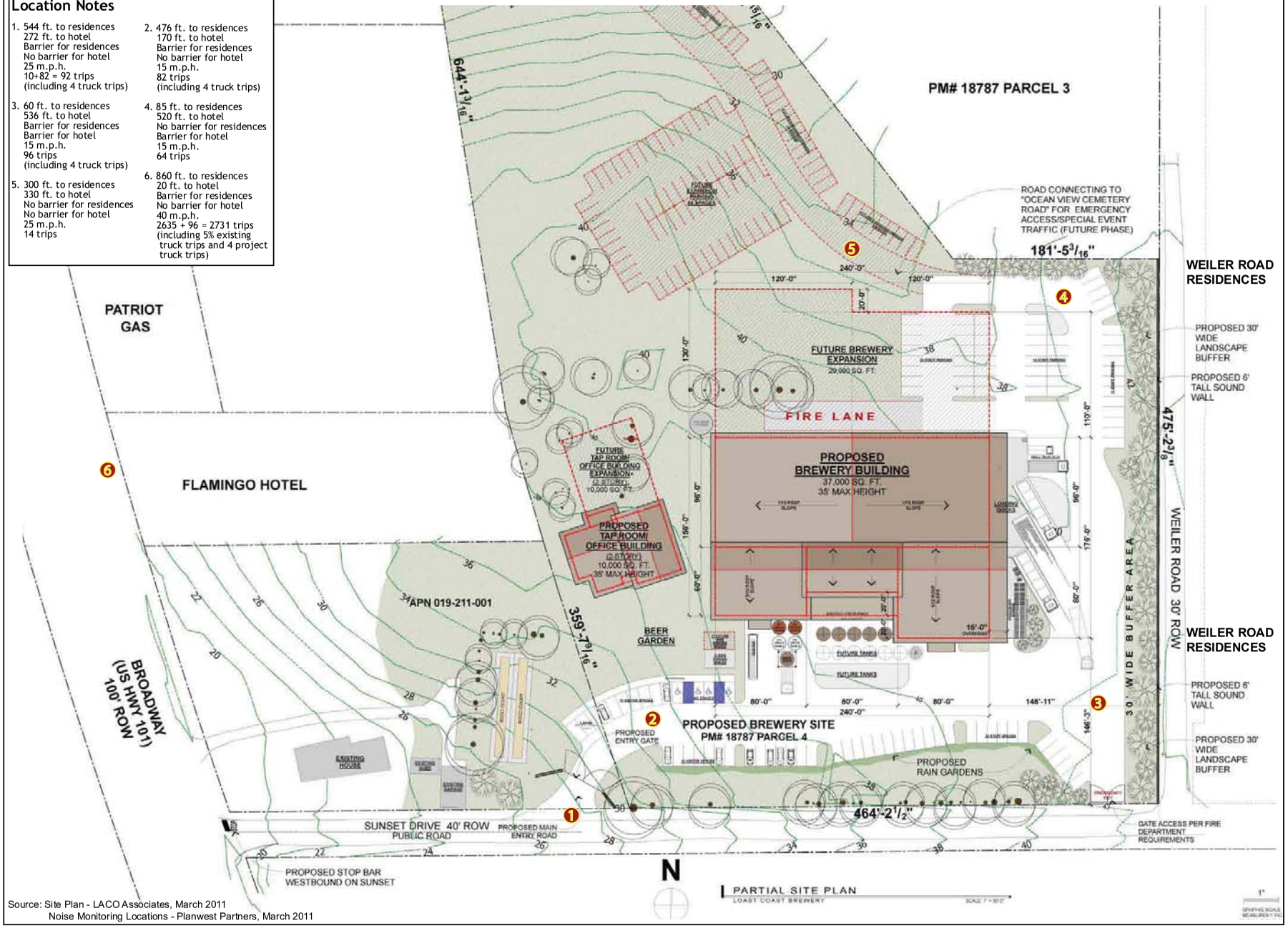
2. 476 ft. to residences
   170 ft. to hotel
   Barrier for residences
   No barrier for hotel
   15 m.p.h.
   82 trips
   (including 4 truck trips)

3. 60 ft. to residences
   536 ft. to hotel
   Barrier for residences
   Barrier for hotel
   15 m.p.h.
   96 trips
   (including 4 truck trips)

4. 85 ft. to residences
   520 ft. to hotel
   No barrier for residences
   Barrier for hotel
   15 m.p.h.
   64 trips

5. 300 ft. to residences
   330 ft. to hotel
   No barrier for residences
   No barrier for hotel
   25 m.p.h.
   14 trips

6. 860 ft. to residences
   20 ft. to hotel
   Barrier for residences
   No barrier for hotel
   40 m.p.h.
   2635 + 96 = 2731 trips
   (including 5% existing truck trips and 4 project truck trips)



Source: Site Plan - LACO Associates, March 2011
Noise Monitoring Locations - Planwest Partners, March 2011

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Dynamic Precast
5300 Sebastopol Road
Santa Rosa, CA 95407
Tel: 707-573-1110
Fax: 707-573-1919
dynamicprecast@aol.com

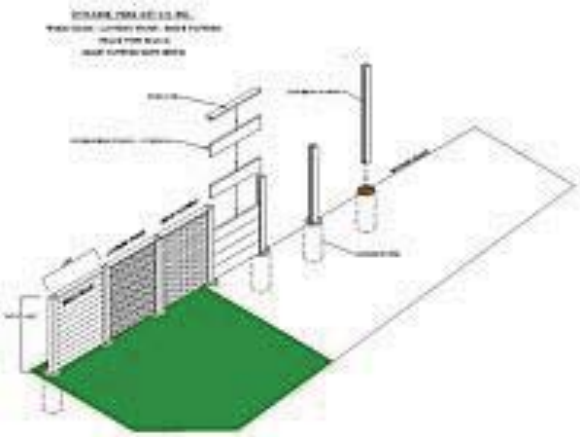
Our Wood Grain Soundwall System

At Dynamic Precast, our Wood Grain Soundwall Fence delivers the warmth, curb appeal, and beauty of wood with the benefits of brick or stone at less cost. The fiber and steel reinforced precast concrete walls are precision manufactured to provide a durable, reliable, and maintenance free product. Our Soundwalls offer excellent screening qualities between commercial and residential properties & effective sound barrier against highway or shopping center noise. We are proud of our finished wall appearance on both sides creating a "good neighbor" fence All of Dynamic Precast's soundwalls offer permanent screening wall that meets local code requirements. No continuous foundation required. We have a solid history of satisfied builders and developers. **8 dB noise attenuation for 6' wall, and 10 dB for 8' wall**.

Examples

Earth Tone Brown

Earth Tone Brown



Isometric WG & LS