# Appendix E
Noise Model Outputs

# Noise Appendix

# Field Noise Measurement Data Sheets

DUDEK
CREATOR OF KERATA TECHNOLOGY

# FIELD DATA REPORT

## Field Noise Measurement Data

| Record: 334 | |
|---|---|
| **Project Name** | *Santa Monica* |
| **Project #** | *9127* |
| **Observer(s)** | *Connor Burke* |
| **Date** | *2017-03-15* |
| **autoemail** | *cburke@dudek.com* |

| Meteorological Conditions | |
|---|---|
| **Temp (F)** | *68* |
| **Humidity % (R.H.)** | *56* |
| **Wind** | *Calm* |
| **Wind Speed (MPH)** | *2* |
| **Wind Direction** | *East* |
| **Sky** | *Sunny* |

| Instrument and Calibrator Information | |
|---|---|
| **Instrument Name List** | *(ENC) Rion NL-52* |
| **Instrument Name** | *(ENC) Rion NL-52* |
| **Instrument Name Lookup Key** | *(ENC) Rion NL-52* |
| **Manufacturer** | *Rion* |
| **Model** | *NL-52* |
| **Serial Number** | *553896* |
| **Calibrator Name** | *(ENC) LD CAL150* |
| **Calibrator Name** | *(ENC) LD CAL150* |
| **Calibrator Name Lookup Key** | *(ENC) LD CAL150* |
| **Calibrator Manufacturer** | *Larson Davis* |
| **Calibrator Model** | *LD CAL150* |
| **Calibrator Serial #** | *5152* |
| **Pre-Test (dBA SPL)** | *94* |
| **Post-Test (dBA SPL)** | *94* |
| **Windscreen** | *Yes* |
| **Weighting?** | *A-WTD* |
| **Slow/Fast?** | *Slow* |
| **ANSI?** | *Yes* |

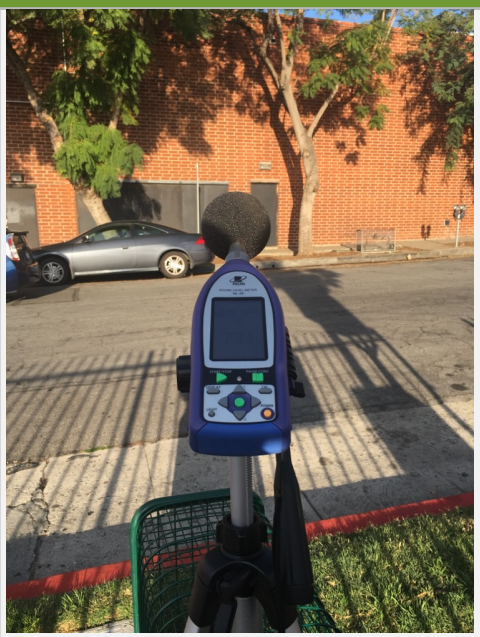
| Recordings | |
|---|---|
| **Record #** | *1* |
| **Site ID** | *ST3* |
| **Site Location** | *Latitude:34.091466,*<br>*Longitude:-118.360471,*<br>*Altitude:86.092285,*<br>*Speed:0.000000,*<br>*Horizontal Accuracy:10.000000,*<br>*Vertical Accuracy:6.000000,*<br>*Time:8:22:14 AM PDT* |
| **Begin (Time)** | *08:21:00* |
| **End (Time)** | *08:31:00* |
| **Leq** | *60.4* |
| **Lmax** | *74.6* |
| **Lmin** | *53.8* |
| **Other Lx?** | *L90, L50, L10* |
| **L90** | *55* |
| **L50** | *57.9* |
| **L10** | *63.9* |
| **Other (Specify Metric)** | |

| | |
|---|---|
| **Primary Noise Source** | *Traffic* |
| **Other Noise Sources (Background)** | *Distant Conversations / Yelling, Distant Traffic* |
| **Is the same instrument and calibrator being used as previously notated?** | *Yes* |
| **Are the meteorological conditions the same as previously notated?** | *Yes* |

| Source Info and Traffic Counts | |
|---|---|
| **Distance to Roadway (feet)** | *10* |
| **Distance to Roadway - Centerline/Edge of Pavement** | *Edge of Pavement* |
| **Estimated Vehicle Speed (MPH)** | *25* |
| **Count Duration (Min)** | *10* |

| Traffic Counts | |
|---|---|
| **Counting Both Directions?** | *Yes* |
| **Autos** | *1* |
| **Number of Vehicles - Autos** | *15* |

## Description / Photos

| Site Photos | |
|---|---|
| **Photo** |  |
| **Comments / Description** | *Facing west* |

DUDEK
CREATOR OF KERATA TECHNOLOGY

# FIELD DATA REPORT

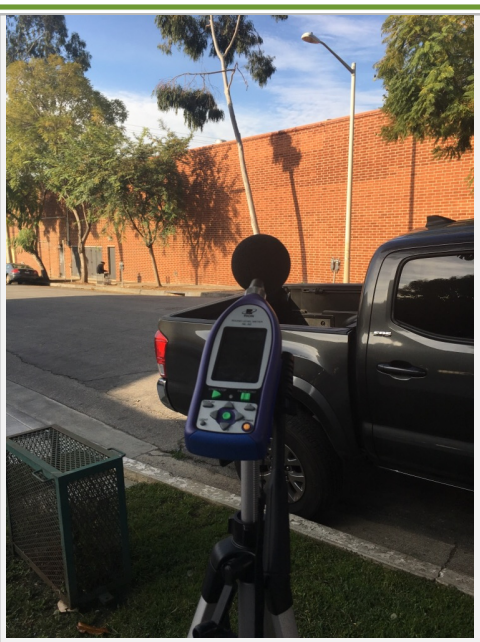
| Recordings | |
|---|---|
| **Record #** | *2* |
| **Site ID** | *ST4* |
| **Site Location** | *Latitude:34.091789,<br>Longitude:-118.360282,<br>Altitude:98.270142,<br>Speed:0.000000,<br>Horizontal Accuracy:10.000000,<br>Vertical Accuracy:6.000000,<br>Time:8:33:22 AM PDT* |
| **Begin (Time)** | *08:33:00* |
| **End (Time)** | *08:43:00* |
| **Leq** | *60.1* |
| **Lmax** | *69.6* |
| **Lmin** | *54.3* |
| **Other Lx?** | *L90, L50, L10* |
| **L90** | *55.1* |
| **L50** | *56.2* |
| **L10** | *64.3* |
| **Other (Specify Metric)** | |
| **Primary Noise Source** | *Traffic* |
| **Other Noise Sources (Background)** | *Distant Conversations / Yelling* |
| **Other Noise Sources Additional Description** | *Fountain at school. Truck docking.* |
| **Is the same instrument and calibrator being used as previously notated?** | *Yes* |
| **Are the meteorological conditions the same as previously notated?** | *Yes* |

| Source Info and Traffic Counts | |
|---|---|
| **Distance to Roadway (feet)** | *10* |
| **Estimated Vehicle Speed (MPH)** | *25* |
| **Count Duration (Min)** | *10* |

| Traffic Counts | |
|---|---|
| **Counting Both Directions?** | *Yes* |
| **Autos** | *1* |
| **Number of Vehicles - Autos** | *18* |
| **Medium Trucks** | *1* |
| **Number of Vehicles - Medium Trucks** | *1* |

## Description / Photos

## Site Photos

| | |
|---|---|
| **Photo** |  |
| **Comments / Description** | *Facing west.* |

| Recordings | |
|---|---|
| **Record #** | *3* |
| **Site ID** | *ST1* |
| **Site Location** | *Latitude:34.090904,<br>Longitude:-118.359638,<br>Altitude:81.887207,<br>Speed:0.000000,<br>Horizontal Accuracy:10.000000,<br>Vertical Accuracy:3.000000,<br>Time:8:47:02 AM PDT* |
| **Begin (Time)** | *08:47:00* |
| **End (Time)** | *08:57:00* |
| **Leq** | *67* |
| **Lmax** | *82.2* |
| **Lmin** | *55.1* |
| **Other Lx?** | *L90, L50, L10* |
| **L90** | *58.3* |
| **L50** | *64* |
| **L10** | *70.1* |
| **Primary Noise Source** | *Traffic* |
| **Other Noise Sources (Background)** | *Distant Conversations / Yelling, Distant Traffic* |
| **Is the same instrument and calibrator being used as previously notated?** | *Yes* |
| **Are the meteorological conditions the same as previously notated?** | *Yes* |

| Source Info and Traffic Counts | |
|---|---|
| **Distance to Roadway (feet)** | *10* |
| **Estimated Vehicle Speed (MPH)** | *35* |
| **Count Duration (Min)** | *10* |

| Traffic Counts | |
|---|---|
| **Counting Both Directions?** | *Yes* |
| **Autos** | *1* |
| **Number of Vehicles - Autos** | *281* |
| **Medium Trucks** | *1* |
| **Number of Vehicles - Medium Trucks** | *10* |
| **Heavy Trucks** | *1* |
| **Number of Vehicles - Heavy Trucks** | *4* |
| **Buses** | *1* |
| **Number of Vehicles - Buses** | *5* |

| Description / Photos |
|---|

| Site Photos | |
|---|---|
| **Photo** |  |
| **Comments / Description** | *Facing south* |

DUDEK
CREATOR OF KERATA TECHNOLOGY

# FIELD DATA REPORT

| Recordings | |
|---|---|
| **Record #** | *4* |
| **Site ID** | *ST2* |
| **Site Location** | *Latitude:34.091443,<br>Longitude:-118.359298,<br>Altitude:93.200253,<br>Speed:0.000000,<br>Horizontal Accuracy:10.000000,<br>Vertical Accuracy:4.000000,<br>Time:9:00:42 AM PDT* |
| **Begin (Time)** | *09:00:00* |
| **End (Time)** | *09:10:00* |
| **Leq** | *57.9* |
| **Lmax** | *75.1* |
| **Lmin** | *48.3* |
| **Other Lx?** | *L90, L50, L10* |
| **L90** | *50.1* |
| **L50** | *53.9* |
| **L10** | *60.7* |
| **Other (Specify Metric)** | |
| **Primary Noise Source** | *Traffic* |
| **Other Noise Sources (Background)** | *Birds, Distant Traffic* |
| **Is the same instrument and calibrator being used as previously notated?** | *Yes* |
| **Are the meteorological conditions the same as previously notated?** | *Yes* |

| Source Info and Traffic Counts | |
|---|---|
| **Distance to Roadway (feet)** | *10* |
| **Estimated Vehicle Speed (MPH)** | *25* |
| **Count Duration (Min)** | *10* |

| Traffic Counts | |
|---|---|
| **Counting Both Directions?** | *Yes* |
| **Autos** | *1* |
| **Number of Vehicles - Autos** | *24* |
| **Medium Trucks** | *1* |
| **Number of Vehicles - Medium Trucks** | *1* |

## Description / Photos

## Site Photos

| | |
|---|---|
| **Photo** |  |
| **Comments / Description** | *Facing east.* |

| **Recordings** | |
|---|---|
| **Record #** | *5* |
| **Site ID** | *ST5* |
| **Site Location** | *Latitude:34.091534,<br>Longitude:-118.359256,<br>Altitude:95.281673,<br>Speed:0.000000,<br>Horizontal Accuracy:10.000000,<br>Vertical Accuracy:4.000000,<br>Time:9:12:40 AM PDT* |
| **Begin (Time)** | *09:12:00* |
| **End (Time)** | *09:22:00* |
| **Leq** | *54.3* |
| **Lmax** | *68* |
| **Lmin** | *44.8* |
| **Other Lx?** | *L90, L50, L10* |
| **L90** | *47.9* |
| **L50** | *50.2* |
| **L10** | *57* |
| **Other (Specify Metric)** | |
| **Primary Noise Source** | *Traffic* |
| **Other Noise Sources (Background)** | *Birds, Distant Traffic* |
| **Other Noise Sources Additional Description** | *Back up alarm on truck.* |
| **Is the same instrument and calibrator being used as previously notated?** | *Yes* |
| **Are the meteorological conditions the same as previously notated?** | *Yes* |

DUDEK
CREATOR OF KERATA TECHNOLOGY

# FIELD DATA REPORT

| Source Info and Traffic Counts | |
|---|---|
| **Distance to Roadway (feet)** | *20* |
| **Distance to Roadway - Centerline/Edge of Pavement** | *Edge of Pavement* |
| **Estimated Vehicle Speed (MPH)** | *25* |
| **Count Duration (Min)** | *10* |

| Traffic Counts | |
|---|---|
| **Counting Both Directions?** | *Yes* |
| **Autos** | *1* |
| **Number of Vehicles - Autos** | *18* |
| **Medium Trucks** | *1* |
| **Number of Vehicles - Medium Trucks** | *2* |

## Description / Photos

### Site Photos

**Photo**

| | |
|---|---|
| **Comments / Description** | *Facing east.* |

DUDEK
CREATOR OF KERATA TECHNOLOGY

# FIELD DATA REPORT

| Recordings | |
|---|---|
| **Record #** | *6* |
| **Site ID** | *ST6* |
| **Site Location** | *Latitude:34.091480,<br>Longitude:-118.358962,<br>Altitude:91.988827,<br>Speed:0.000000,<br>Horizontal Accuracy:10.000000,<br>Vertical Accuracy:4.000000,<br>Time:9:24:11 AM PDT* |
| **Begin (Time)** | *09:24:00* |
| **End (Time)** | *09:34:00* |
| **Leq** | *57* |
| **Lmax** | *73.8* |
| **Lmin** | *45.3* |
| **Other Lx?** | *L90, L50, L10* |
| **L90** | *46.7* |
| **L50** | *52.9* |
| **L10** | *60.4* |
| **Other (Specify Metric)** | |
| **Primary Noise Source** | *Traffic* |
| **Other Noise Sources (Background)** | *Birds, Rustling Leaves* |
| **Is the same instrument and calibrator being used as previously notated?** | *Yes* |
| **Are the meteorological conditions the same as previously notated?** | *Yes* |

| Source Info and Traffic Counts | |
|---|---|
| **Distance to Roadway (feet)** | *8* |
| **Estimated Vehicle Speed (MPH)** | *25* |
| **Count Duration (Min)** | *10* |

| Traffic Counts | |
|---|---|
| **Counting Both Directions?** | *Yes* |
| **Autos** | *1* |
| **Number of Vehicles - Autos** | *18* |
| **Buses** | *0* |
| **Motorcyles** | *1* |
| **Number of Vehicles - Motorcyles** | *1* |

## Description / Photos

## Site Photos

| | |
|---|---|
| **Photo** |  |
| **Comments / Description** | *Facing west.* |

# Construction Noise Model Input / Output

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 2/9/2018
Case Descr Santa Monica_Demolition

| | | ---- Receptor #1 ---- | | |
|---|---|---|---|---|
| | | Baselines (dBA) | | |
| Description | Land Use | Daytime | Evening | Night |
| Acoustical | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|---|---|---|---|---|---|---|
| Excavator | No | 40 | | 80.7 | 50 | 0 |
| Excavator | No | 40 | | 80.7 | 50 | 0 |
| Front End Loader | No | 40 | | 79.1 | 50 | 0 |
| Front End Loader | No | 40 | | 79.1 | 50 | 0 |
| Front End Loader | No | 40 | | 79.1 | 50 | 0 |

| | | | Results | | | | |
|---|---|---|---|---|---|---|---|
| | Calculated (dBA) | | Noise Limits (dBA) | | | | |
| | | | Day | | Evening | | Night |
| Equipment | *Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax |
| Excavator | 80.7 | 76.7 | N/A | N/A | N/A | N/A | N/A |
| Excavator | 80.7 | 76.7 | N/A | N/A | N/A | N/A | N/A |
| Front End Loader | 79.1 | 75.1 | N/A | N/A | N/A | N/A | N/A |
| Front End Loader | 79.1 | 75.1 | N/A | N/A | N/A | N/A | N/A |
| Front End Loader | 79.1 | 75.1 | N/A | N/A | N/A | N/A | N/A |
| Total | 80.7 | 82.8 | N/A | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 2/9/2018
Case Description: Santa Monica_Site Preparation

| | | Baselines (dBA) | | | ---- Receptor #1 ---- | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Description | Land Use | Daytime | Evening | Night | | | | | |
| Acoustical Center 50' | Residential | 65 | 60 | 55 | | | | | |

| | | | Equipment | | | | |
|---|---|---|---|---|---|---|---|
| | Impact | | Spec Lmax | Actual Lmax | Receptor Distance | Estimated Shielding | |
| Description | Device | Usage(%) | (dBA) | (dBA) | (feet) | (dBA) | |
| Front End Loader | No | 40 | | 79.1 | 50 | 0 | |

| | | Calculated (dBA) | | Results | | Noise Limits (dBA) | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Day | | Evening | | Night |
| Equipment | | *Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax |
| Front End Loader | | 79.1 | 75.1 | N/A | N/A | N/A | N/A | N/A |
| | Total | 79.1 | 75.1 | N/A | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 2/9/2018
Case Description: Santa Monica_Grading

| | | ---- Receptor #1 ---- | | |
|---|---|---|---|---|
| | | Baselines (dBA) | | |
| Description | Land Use | Daytime | Evening | Night |
| Acoustical Center 50' | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|---|---|---|---|---|---|---|
| Man Lift | No | 20 | | 74.7 | 50 | 0 |
| Man Lift | No | 20 | | 74.7 | 50 | 0 |
| Excavator | No | 40 | | 80.7 | 50 | 0 |
| Dozer | No | 40 | | 81.7 | 50 | 0 |
| Dozer | No | 40 | | 81.7 | 50 | 0 |
| Drill Rig Truck | No | 20 | | 79.1 | 50 | 0 |

| | | Calculated (dBA) | | Results | Noise Limits (dBA) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Day | | Evening | | Night |
| Equipment | | *Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax |
| Man Lift | | 74.7 | 67.7 | N/A | N/A | N/A | N/A | N/A |
| Man Lift | | 74.7 | 67.7 | N/A | N/A | N/A | N/A | N/A |
| Excavator | | 80.7 | 76.7 | N/A | N/A | N/A | N/A | N/A |
| Dozer | | 81.7 | 77.7 | N/A | N/A | N/A | N/A | N/A |
| Dozer | | 81.7 | 77.7 | N/A | N/A | N/A | N/A | N/A |
| Drill Rig Truck | | 79.1 | 72.2 | N/A | N/A | N/A | N/A | N/A |
| | Total | 81.7 | 82.9 | N/A | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Report date: 2/9/2018
Case Description: Santa Monica_Building Construction

| | | Baselines (dBA) | | | ---- Receptor #1 ---- |
|---|---|---|---|---|---|
| Description | Land Use | Daytime | Evening | Night | |
| Acoustical Center 50' | Residential | 65 | 60 | 55 | |

| Description | Impact Device | Usage(%) | Equipment Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|---|---|---|---|---|---|---|
| Concrete Pump Truck | No | 20 | | 81.4 | 50 | 0 |
| Concrete Pump Truck | No | 20 | | 81.4 | 50 | 0 |
| Concrete Pump Truck | No | 20 | | 81.4 | 50 | 0 |
| Crane | No | 16 | | 80.6 | 50 | 0 |
| Crane | No | 16 | | 80.6 | 50 | 0 |
| Man Lift | No | 20 | | 74.7 | 50 | 0 |
| Man Lift | No | 20 | | 74.7 | 50 | 0 |
| Man Lift | No | 20 | | 74.7 | 50 | 0 |

| | | Calculated (dBA) | | Results | Noise Limits (dBA) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Day | | Evening | | Night |
| Equipment | | *Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax |
| Concrete Pump Truck | | 81.4 | 74.4 | N/A | N/A | N/A | N/A | N/A |
| Concrete Pump Truck | | 81.4 | 74.4 | N/A | N/A | N/A | N/A | N/A |
| Concrete Pump Truck | | 81.4 | 74.4 | N/A | N/A | N/A | N/A | N/A |
| Crane | | 80.6 | 72.6 | N/A | N/A | N/A | N/A | N/A |
| Crane | | 80.6 | 72.6 | N/A | N/A | N/A | N/A | N/A |
| Man Lift | | 74.7 | 67.7 | N/A | N/A | N/A | N/A | N/A |
| Man Lift | | 74.7 | 67.7 | N/A | N/A | N/A | N/A | N/A |
| Man Lift | | 74.7 | 67.7 | N/A | N/A | N/A | N/A | N/A |
| | Total | 81.4 | 81.4 | N/A | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Report date: 2/9/2018
Case Description: Santa Monica_Paving

| | | Baselines (dBA) | | ---- Receptor #1 ---- |
|---|---|---|---|---|
| Description | Land Use | Daytime | Evening | Night |
| Acoustical Center 50' | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|---|---|---|---|---|---|---|
| Excavator | No | 40 | | 80.7 | 50 | 0 |
| All Other Equipment > 5 HP | No | 50 | 85 | | 50 | 0 |

| | | Calculated (dBA) | | Results | Noise Limits (dBA) | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Day | | Evening | | Night |
| Equipment | | *Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax |
| Excavator | | 80.7 | 76.7 | N/A | N/A | N/A | N/A | N/A |
| All Other Equipment > 5 HP | | 85 | 82 | N/A | N/A | N/A | N/A | N/A |
| | Total | 85 | 83.1 | N/A | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

# SHIELDING ATTENUATION CALCULATIONS: RAY-TRACE PROGRAM (FOR A POINT-SOURCE)

**Uses the Equation:** $(A_{e4})_{point}=20*\log[(2*pi*N)^{1/2}/\tanh(2*pi*N)^{1/2}]+5dB$

**(Ref. Pg.174, Noise and Vibration Control, L.L. Beranek Editor, 1971 Ed.**

**Project:** Bond Project West Hollywood
**Date:** 27-Mar-19
**By:** MG

**Please Enter: Using English (E) units** E

| Ray Trace Number/Description | Source-Receiver Distance (ft. or m) | Source Base Elev. (ft. or m) | Source Height above Ground (ft. or m) | Receiver Base Elev. (ft. or m) | Receiver Height above Ground (ft. or m) | Horizontal Barrier Dist. (in ref. to source) (ft. or m) | Barrier Base Elev. (ft. or m) | Barrier Height (ft. or m) | Dominant Freq.(Hz) | Source-Rcvr Straight-Line Dist. (ft. or m) | Source-Top-of-Barrier Dist. (ft. or m) | Receiver-Top-of-Barrier Dist. (ft. or m) | Lambda | $N_{max}$ | $AE_{(barriers)}$ (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Construction Noise - Neares Rcvrs | 50.0 | 295.0 | 8.0 | 295.0 | 5.0 | 40.0 | 295.0 | **15.0** | 500.0 | 50.1 | 40.6 | 14.1 | 2.3 | 4.1 | **19.1** |

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 3/28/2019
Case Descr Santa Monica_Demolition with Mitigation

| | | ---- Receptor #1 ---- | | |
|---|---|---|---|---|
| | | Baselines (dBA) | | |
| Description | Land Use | Daytime | Evening | Night |
| Acoustical | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|---|---|---|---|---|---|---|
| Excavator | No | 40 | | 80.7 | 50 | 18 |
| Excavator | No | 40 | | 80.7 | 50 | 18 |
| Front End Loader | No | 40 | | 79.1 | 50 | 18 |
| Front End Loader | No | 40 | | 79.1 | 50 | 18 |

| | Calculated (dBA) | | Results | | | |
|---|---|---|---|---|---|---|
| | | | Noise Limits (dBA) | | | |
| | | | Day | | Evening | |
| Equipment | *Lmax | Leq | Lmax | Leq | Lmax | Leq |
| Excavator | 62.7 | 58.7 | N/A | N/A | N/A | N/A |
| Excavator | 62.7 | 58.7 | N/A | N/A | N/A | N/A |
| Front End Loader | 61.1 | 57.1 | N/A | N/A | N/A | N/A |
| Front End Loader | 61.1 | 57.1 | N/A | N/A | N/A | N/A |
| Total | 62.7 | 64 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 3/28/2019
Case Descr Santa Monica_Site Preparation with Miitigation

| | | Baselines (dBA) | | | ---- Receptor #1 ---- | | | |
|---|---|---|---|---|---|---|---|---|
| Description | Land Use | Daytime | Evening | Night | | | | |
| Acoustical | Residential | 65 | 60 | 55 | | | | |

| | | | Equipment | | | |
|---|---|---|---|---|---|---|
| | Impact | | Spec Lmax | Actual Lmax | Receptor Distance | Estimated Shielding |
| Description | Device | Usage(%) | (dBA) | (dBA) | (feet) | (dBA) |
| Front End Loader | No | 40 | | 79.1 | 50 | 19 |

| | Calculated (dBA) | | Results | | Noise Limits (dBA) | |
|---|---|---|---|---|---|---|
| | | | Day | | Evening | |
| Equipment | *Lmax | Leq | Lmax | Leq | Lmax | Leq |
| Front End Loader | 60.1 | 56.1 | N/A | N/A | N/A | N/A |
| Total | 60.1 | 56.1 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 3/27/2019
Case Descr Santa Monica_Grading with Mitigation

| | | Baselines (dBA) | | | ---- Receptor #1 ---- |
|---|---|---|---|---|---|
| Description | Land Use | Daytime | Evening | Night | |
| Acoustical | Residential | 65 | 60 | 55 | |

| Description | Impact Device | Usage(%) | Equipment Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|---|---|---|---|---|---|---|
| Man Lift | No | 20 | | 74.7 | 50 | 18 |
| Man Lift | No | 20 | | 74.7 | 50 | 18 |
| Excavator | No | 40 | | 80.7 | 50 | 18 |
| Dozer | No | 40 | | 81.7 | 50 | 18 |
| Drill Rig Truck | No | 20 | | 79.1 | 50 | 18 |

| | Calculated (dBA) | | Results | Noise Limits (dBA) | | |
|---|---|---|---|---|---|---|
| | | | Day | | Evening | |
| Equipment | *Lmax | Leq | Lmax | Leq | Lmax | Leq |
| Man Lift | 56.7 | 49.7 | N/A | N/A | N/A | N/A |
| Man Lift | 56.7 | 49.7 | N/A | N/A | N/A | N/A |
| Excavator | 62.7 | 58.7 | N/A | N/A | N/A | N/A |
| Dozer | 63.7 | 59.7 | N/A | N/A | N/A | N/A |
| Drill Rig Truck | 61.1 | 54.2 | N/A | N/A | N/A | N/A |
| Total | 63.7 | 63.3 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 3/28/2019
Case Descr Santa Monica_Building Construction with Mitigation

| | | ---- Receptor #1 ---- | | |
|---|---|---|---|---|
| | Baselines (dBA) | | | |
| Description | Land Use | Daytime | Evening | Night |
| Acoustical | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|---|---|---|---|---|---|---|
| Concrete Pump Truck | No | 20 | | 81.4 | 50 | 19 |
| Concrete Pump Truck | No | 20 | | 81.4 | 50 | 19 |
| Concrete Pump Truck | No | 20 | | 81.4 | 50 | 19 |
| Crane | No | 16 | | 80.6 | 50 | 19 |
| Crane | No | 16 | | 80.6 | 50 | 19 |
| Man Lift | No | 20 | | 74.7 | 50 | 19 |
| Man Lift | No | 20 | | 74.7 | 50 | 19 |
| Man Lift | No | 20 | | 74.7 | 50 | 19 |

| | | | Results | | | |
|---|---|---|---|---|---|---|
| | Calculated (dBA) | | Noise Limits (dBA) | | | |
| | | | Day | | Evening | |
| Equipment | *Lmax | Leq | Lmax | Leq | Lmax | Leq |
| Concrete Pump Truck | 62.4 | 55.4 | N/A | N/A | N/A | N/A |
| Concrete Pump Truck | 62.4 | 55.4 | N/A | N/A | N/A | N/A |
| Concrete Pump Truck | 62.4 | 55.4 | N/A | N/A | N/A | N/A |
| Crane | 61.6 | 53.6 | N/A | N/A | N/A | N/A |
| Crane | 61.6 | 53.6 | N/A | N/A | N/A | N/A |
| Man Lift | 55.7 | 48.7 | N/A | N/A | N/A | N/A |
| Man Lift | 55.7 | 48.7 | N/A | N/A | N/A | N/A |
| Man Lift | 55.7 | 48.7 | N/A | N/A | N/A | N/A |
| Total | 62.4 | 62.4 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 3/28/2019
Case Descr Santa Monica_Paving with Mitigation

| | | Baselines (dBA) | | ---- Receptor #1 ---- |
|---|---|---|---|---|
| Description | Land Use | Daytime | Evening | Night |
| Acoustical | Residential | 65 | 60 | 55 |

| Description | Impact Device | Usage(%) | Equipment Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|---|---|---|---|---|---|---|
| Excavator | No | 40 | | 80.7 | 50 | 19 |
| All Other Equipment > 5 HP | No | 50 | 85 | | 50 | 19 |

| | Calculated (dBA) | | Results | Noise Limits (dBA) | | |
|---|---|---|---|---|---|---|
| | | | Day | | Evening | |
| Equipment | *Lmax | Leq | Lmax | Leq | Lmax | Leq |
| Excavator | 61.7 | 57.7 | N/A | N/A | N/A | N/A |
| All Other Equipment > 5 HP | 66 | 63 | N/A | N/A | N/A | N/A |
| Total | 66 | 64.1 | N/A | N/A | N/A | N/A |

*Calculated Lmax is the Loudest value.

# Exterior Noise Calculations

Salter Source
Truck Back up Alarm

| distance | dBA | |
|---|---|---|
| 30 | 79 | |
| 60 | 73 | |
| 90 | 70 | ***used |
| 120 | 67 | |
| 160 | 65 | |
| 200 | 63 | |
| 240 | 61 | |

Other Source, same as Rohnert Park
heavy duty truck approx level

| distance | dBA |
|---|---|
| 50 | 75 |
| 100 | 69 |
| 200 | 63 |

Strucutural Shielding (5-Story Bldg)

| | |
|---|---|
| | -27 |
| | 42 |
| **Half hour of loading dock** | **39** |
| Existing ambient | 54 |
| **Total** | **54.1** |

ground level

people talking

65 3 ft 1 person

assume 50% of 28 people talking
14 additional people

| | | |
|---|---|---|
| 65 | 3162278 | |
| 65 | 3162278 | 76.5 |
| 65 | 3162278 | |
| 65 | 3162278 | |
| 65 | 3162278 | |
| 65 | 3162278 | |
| 65 | 3162278 | |
| 65 | 3162278 | |
| 65 | 3162278 | |
| 65 | 3162278 | |
| 65 | 3162278 | |
| 65 | 3162278 | |
| 65 | 3162278 | |
| 65 | 3162278 | |

`+ barrier
about 50 feet up
about 25 feet from property line

44271887 level 4 pool deck roof top equipment

actual SPL 76.46128 at 3ftt

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | 65 | 50 |
| 76.4 | 3 | 74.0 | 3 | 75 | 3 | 62 | extra distance |
| 70.4 | 6 | 68.0 | 6 | 69 | 6 | -5 | barrier |
| 64.4 | 12 | 62.0 | 12 | 63 | 12 | -5 | structural |
| 58.4 | 24 | 56.0 | 24 | 57 | 24 | 52 | |
| 52.4 | 48 | 50.0 | 48 | 51 | 48 | | |
| 46.4 | 96 | 45 | barrier add | 48 | 72 | | |
| 40.4 | 192 | | | 43 | barrier | | |

## SHIELDING ATTENUATION CALCULATIONS: RAY-TRACE PROGRAM (FOR A POINT-SOURCE)

**Uses the Equation:** $(A_{et})_{point}=20*\log[(2*pi*N)^{1/2}/\tanh(2*pi*N)^{1/2}]+5dB$

**(Ref. Pg.174, Noise and Vibration Control, L.L. Beranek Editor, 1971 Ed.**

**Project:** Bond Project West Hollywood
**Date:** 12-Mar-19
**By:** MG

**Please Enter: Using English (E) units** E

| Ray Trace Number/Description | Source-Receiver Distance (ft. or m) | Source Base Elev. (ft. or m) | Source Height above Ground (ft. or m) | Receiver Base Elev. (ft. or m) | Receiver Height above Ground (ft. or m) | Horizontal Barrier Dist. (in ref. to source) (ft. or m) | Barrier Base Elev. (ft. or m) | Barrier Height (ft. or m) | Dominant Freq.(Hz) | Source-Rcvr Straight-Line Dist. (ft. or m) | Source-Top-of-Barrier Dist. (ft. or m) | Receiver-Top-of-Barrier Dist. (ft. or m) | Lambda | $N_{max}$ | $AE_{(barriers)}$ (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Loading Dock - Resi to N & NE | 100.0 | 295.0 | 8.0 | 295.0 | 5.0 | 50.0 | 295.0 | **50.0** | 500.0 | 100.0 | 65.3 | 67.3 | 2.3 | 28.8 | **27.6** |

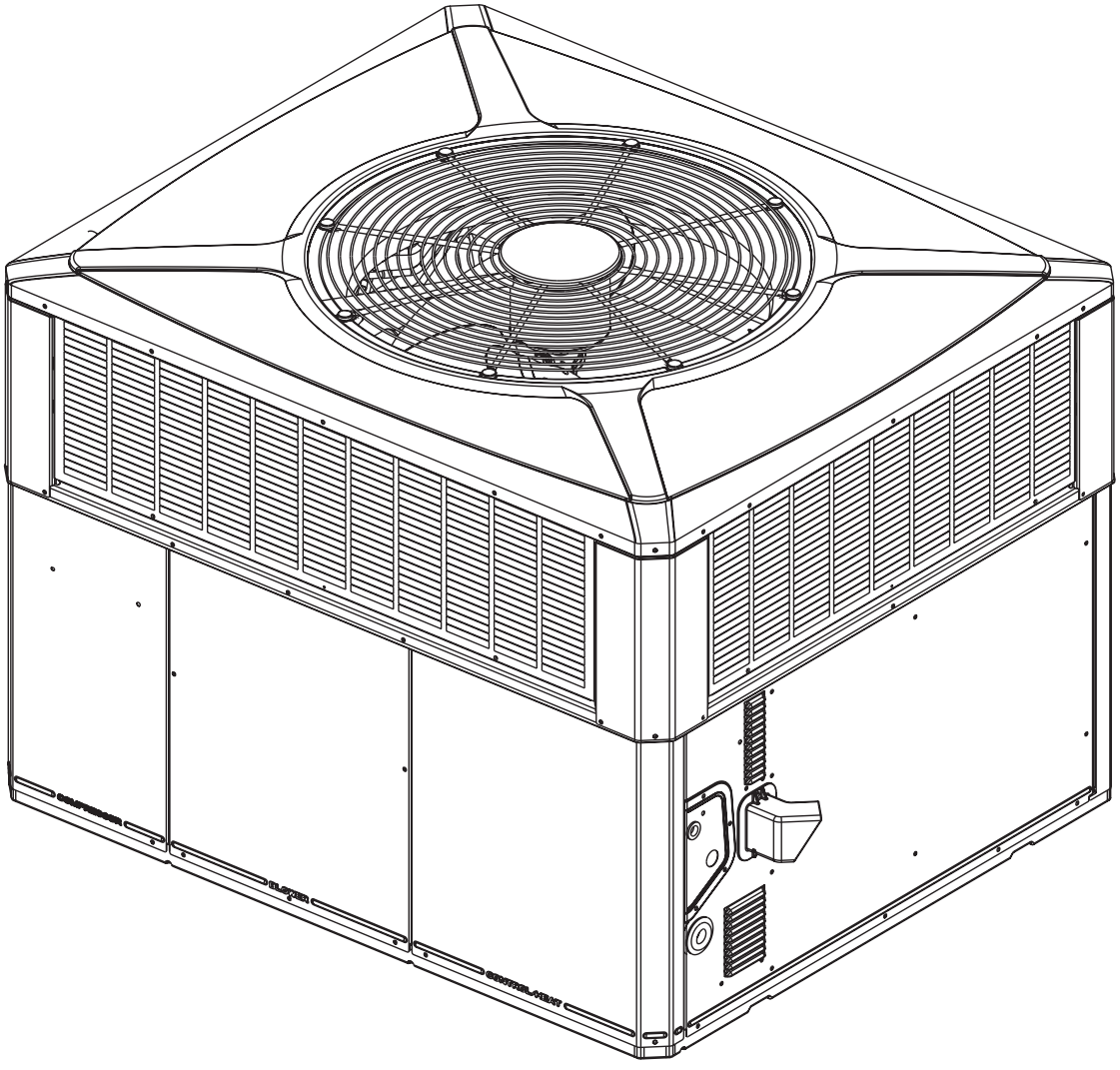
TRANE®

22-1799-17

# Product Data

## 4DCY4024 through 4DCY4060

## Single Packaged Convertible Dual Fuel
## 14 SEER
## 2 - 5 Ton, 40 - 120 MBTU
## R-410A





Pub. No. 22-1799-17

# General Data

| MODEL | 4DCY4024A1064B | 4DCY4030A1075B | 4DCY4036C1075A |
|---|---|---|---|
| **RATED Volts/PH/Hz** | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| **Performance Cooling BTUH**① | 23600 | 30000 | 37000 |
| Indoor Airflow (CFM) | 760 | 880 | 1150 |
| Power Input (KW) | 2.162 | 2.15 | 3.11 |
| EER/SEER(BTU/Watt-Hr.)⑤ | 12/14.0 | 12.0 / 14.25 | 12.0 / 14.0 |
| Sound Power Rating [dB(A)]⑦ | 68 | 71 | 69 |
| **HP Heating Performance** | | | |
| (High Temp.)BTUH / COP | 22400 / 3.7 | 28000 / 3.9 | 33200 / 3.6 |
| Power Input (KW) | 1.77 | 2.15 | 2.7 |
| (Low Temp.) BTUH / COP | 11600 / 2.38 | 15400 / 2.48 | 22400 / 2.4 |
| Power Input (KW) | 1.24 | 1.81 | 2.5 |
| HSPF (BTU / Watt-Hr.) | 8.0 | 8.0 | 8.0 |
| **Gas Heating Performance**② | | | |
| (High) Input BTUH | 64000 | 75000 | 75000 |
| Capacity BTUH | 51500 | 60500 | 60500 |
| Temp. Rise — Min/Max (°F) | 35 / 65 | 30 / 60 | 30 / 60 |
| (Low) Input BTUH | 48000 | 56250 | 56250 |
| Capacity BTUH | 41200 | 48400 | 48400 |
| AFUE | 79 | 79.5 | 79.5 |
| Type of Gas ③ | NATURAL | NATURAL/LP | NATURAL |
| Gas Pipe Size (in.) | 1/2 | 1/2 | 1/2 |
| **POWER CONN.—V/PH/HZ** | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| Min. Brch. Cir. Ampacity④ | 16.1 | 19.1 | 26.2 |
| Fuse Size — Max. (amps) | 25 | 30 | 40 |
| Fuse Size — Recmd. (amps) | 25 | 30 | 40 |
| **COMPRESSOR** | RECIPROCATING | RECIPROCATING | SCROLL |
| Volts/Ph/Hz | 208-230/1/60 | 200-230/1/60 | 208-230/1/60 |
| R.L. Amps — L.R. Amps | 8.3 / 57.8 | 11.1 / 63 | 16.7 / 79 |
| **OUTDOOR COIL — TYPE** | SPINE-FIN | SPINE-FIN | SPINE-FIN |
| Rows/F.P.I. | 2 / 24 | 2 / 24 | 2 / 24 |
| Face Area (sq.ft.) | 13.32 | 13.32 | 15.49 |
| Tube Size (in.) | 3/8 | 3/8 | 3/8 |
| Refrigerant Control | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE |
| **INDOOR COIL — TYPE** | PLATE FIN | PLATE FIN | PLATE FIN |
| Rows/F.P.I. | 3 / 15 | 4 / 15 | 4 / 15 |
| Face Area (sq.ft.) | 3.54 | 3.54 | 3.54 |
| Tube Size (in.) | 3/8 | 3/8 | 3/8 |
| Refrigerant Control | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE |
| Drain Conn. Size (in.) | 3/4 FEMALE NPT | 3/4 FEMALE NPT | 3/4 FEMALE NPT |
| **OUTDOOR FAN — TYPE** | PROPELLER | PROPELLER | PROPELLER |
| Dia. (in.) | 23.4 | 23.4 | 23.4 |
| Drive/No. Speeds | DIRECT / 1 | DIRECT / 1 | DIRECT / 1 |
| CFM @ 0.0 in. w.g. ⑦ | 2590 | 3250 | 3310 |
| Motor — HP/R.P.M. | 1/12 / 810 | 1/6 / 830 | 1/5 / 830 |
| Volts/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| F.L. Amps/L.R. Amps | 0.54 / 0.95 | 1.0 / 1.7 | 1.1 / 1.9 |
| **INDOOR FAN — TYPE** | CENTRIFUGAL | CENTRIFUGAL | CENTRIFUGAL |
| Dia x Width (in.) | 10 X 10 | 10 X 10 | 10 X 10 |
| Drive/No. Speeds | DIRECT / VARIABLE | DIRECT / VARIABLE | DIRECT / VARIABLE |
| CFM @ 0.0 in. w.g.⑤ | SEE FAN PERFORMANCE TABLE | SEE FAN PERFORMANCE TABLE | SEE FAN PERFORMANCE TABLE |
| Motor — HP/R.P.M. | 1/2 / VARIABLE | 1/2 / VARIABLE | 1/2 / VARIABLE |
| Volts/Ph/Hz | 200-230/1/60 | 208-230/1/60 | 200-230/1/60 |
| F.L. Amps/L.R. Amps | 4.3 / 4.3 | 4.3 / 4.3 | 4.3 / 4.3 |
| **COMBUSTION FAN — TYPE** | CENTRIFUGAL | CENTRIFUGAL | CENTRIFUGAL |
| Drive/No. Speeds | DIRECT / 2 | DIRECT / 2 | DIRECT / 2 |
| Motor — HP/R.P.M. (High/Low) | 1/45 / 2800/1500 | 1/45 / 2800/1500 | 1/45 / 2800/1500 |
| Volts/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| FLA | 0.34 | 0.34 | 0.34 |
| **FILTER / FURNISHED** | NO | NO | NO |
| Type Recommended | THROWAWAY | THROWAWAY | THROWAWAY |
| Recmd. Face Area (sq. ft.)⑥ | 4 | 4 | 4 |
| **REFRIGERANT / Charge (lbs.)** | R410A / 6.5 | R410A / 6.56 | R410A / 7.5 |
| **DIMENSIONS** | H X W X L | H X W X L | H X W X L |
| Crated (in.) | 45.86 / 44.5 / 52.03 | 45.86 / 44.5 / 52.03 | 47.86 / 44.5 / 52.03 |
| **WEIGHT / Shipping / Net (lbs.)** | 481 / 385 | 481 / 385 | 488 / 392 |

① Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

② All models are U L Listed. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

③ Convertible to LPG.

④ This value is approximate. For more precise value, see Unit Nameplate.

⑤ Based on U.S. Government Standard Tests.

⑥ Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.

⑦ Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

⑧ Standard Air — Dry Coil — Outdoor.

# General Data

| MODEL | 4DCY4036B3075A | 4DCY4042A1096B | 4DCY4048B1096B |
|---|---|---|---|
| **RATED Volts/PH/Hz** | 208-230/3/60 | 208-230/1/60 | 208-230/1/60 |
| **Performance Cooling BTUH**① | 36000 | 42000 | 47500 |
| Indoor Airflow (CFM) | 1185 | 1370 | 1470 |
| Power Input (KW) | 3.28 | 3.27 | 3.96 |
| EER/SEER(BTU/Watt-Hr.)⑤ | 11.4 / 14.0 | 12.0 / 14.25 | 12.0 / 14.0 |
| Sound Power Rating [dB(A)]⑦ | 69 | 74 | 73 |
| **HP Heating Performance** | | | |
| (High Temp.)BTUH / COP | 32400 / 3.5 | 39500 / 3.6 | 45000 / 3.5 |
| Power Input (KW) | 2.7 | 3.27 | 3.77 |
| (Low Temp.) BTUH / COP | 20600 / 2.36 | 23600 / 2.26 | 26800 / 2.3 |
| Power Input (KW) | 2.6 | 3.06 | 3.44 |
| HSPF (BTU / Watt-Hr.) | 8.0 | 8.0 | 8.0 |
| **Gas Heating Performance**② | | | |
| (High) Input BTUH | 75000 | 96000 | 96000 |
| Capacity BTUH | 60500 | 77500 | 77500 |
| Temp. Rise — Min/Max (°F) | 30 / 60 | 30 / 60 | 30 / 60 |
| (Low) Input BTUH | 56250 | 72000 | 72000 |
| Capacity BTUH | 48400 | 62000 | 62000 |
| AFUE | 80.0 | 80 | 80 |
| Type of Gas ③ | NATURAL | NATURAL/LP | NATURAL |
| Gas Pipe Size (in.) | 1/2 | 1/2 | 1/2 |
| **POWER CONN.—V/PH/HZ** | 208-230/3/60 | 208-230/1/60 | 208-230/1/60 |
| Min. Brch. Cir. Ampacity④ | 18.5 | 31.5 | 33.9 |
| Fuse Size — Max. (amps) | 25 | 50 | 50 |
| Fuse Size — Recmd. (amps) | 25 | 50 | 50 |
| **COMPRESSOR** | SCROLL | SCROLL | SCROLL |
| Volts/Ph/Hz | 208-230/3/60 | 208-230/1/60 | 208-230/1/60 |
| R.L. Amps — L.R. Amps | 10.4 / 73 | 18.6 / 105 | 20.5 / 109 |
| **OUTDOOR COIL — TYPE** | SPINE-FIN | SPINE-FIN | SPINE-FIN |
| Rows/F.P.I. | 2 / 24 | 2 / 24 | 2 / 24 |
| Face Area (sq.ft.) | 15.49 | 18.01 | 18.01 |
| Tube Size (in.) | 3/8 | 3/8 | 3/8 |
| Refrigerant Control | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE |
| **INDOOR COIL — TYPE** | PLATE FIN | PLATE FIN | PLATE FIN |
| Rows/F.P.I. | 4 / 15 | 3 / 15 | 3 / 15 |
| Face Area (sq.ft.) | 3.54 | 5 | 5.0 |
| Tube Size (in.) | 3/8 | 3/8 | 3/8 |
| Refrigerant Control | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE |
| Drain Conn. Size (in.) | 3/4 FEMALE NPT | 3/4 FEMALE NPT | 3/4 FEMALE NPT |
| **OUTDOOR FAN — TYPE** | PROPELLER | PROPELLER | PROPELLER |
| Dia. (in.) | 23.4 | 28.2 | 28.2 |
| Drive/No. Speeds | DIRECT / 1 | DIRECT / 1 | DIRECT / 1 |
| CFM @ 0.0 in. w.g. ⑦ | 3270 | 4440 | 4450 |
| Motor — HP/R.P.M. | 1/5 / 830 | 1/4 / 825 | 1/4 / 825 |
| Volts/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| F.L. Amps/L.R. Amps | 1.1 / 1.9 | 1.5 / 3.4 | 1.4 / 3.5 |
| **INDOOR FAN — TYPE** | CENTRIFUGAL | CENTRIFUGAL | CENTRIFUGAL |
| Dia x Width (in.) | 10 X 10 | 11 X 10 | 11 X 10 |
| Drive/No. Speeds | DIRECT / VARIABLE | DIRECT / VARIABLE | DIRECT / VARIABLE |
| CFM @ 0.0 in. w.g.⑤ | SEE FAN PERFORMANCE TABLE | SEE FAN PERFORMANCE TABLE | SEE FAN PERFORMANCE TABLE |
| Motor — HP/R.P.M. | 1/2 / VARIABLE | 3/4 / VARIABLE | 3/4 / VARIABLE |
| Volts/Ph/Hz | 200-230/1/60 | 208-230/1/60 | 200-230/1/60 |
| F.L. Amps/L.R. Amps | 4.3 / 4.3 | 6.8 / 6.8 | 6.8 / 6.8 |
| **COMBUSTION FAN — TYPE** | CENTRIFUGAL | CENTRIFUGAL | CENTRIFUGAL |
| Drive/No. Speeds | DIRECT / 2 | DIRECT / 2 | DIRECT / 2 |
| Motor — HP/R.P.M. (High/Low) | 1/45 / 2800/1500 | 1/45 / 2800/1500 | 1/45 / 2800/1500 |
| Volts/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| FLA | 0.34 | 0.34 | 0.34 |
| **FILTER / FURNISHED** | NO | NO | NO |
| Type Recommended | THROWAWAY | THROWAWAY | THROWAWAY |
| Recmd. Face Area (sq. ft.)⑥ | 4 | 5.3 | 5.3 |
| **REFRIGERANT / Charge (lbs.)** | R410A / 7.4 | R410A / 7.25 | R410A / 7.75 |
| **DIMENSIONS** | H X W X L | H X W X L | H X W X L |
| Crated (in.) | 47.86 / 44.5 / 52.03 | 47.86 / 47.4 / 61.75 | 47.86 / 47.4 / 61.75 |
| **WEIGHT / Shipping / Net (lbs.)** | 488 / 392 | 653 / 525 | 653 / 525 |

① Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

② All models are U L Listed. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

③ Convertible to LPG.

④ This value is approximate. For more precise value, see Unit Nameplate.

⑤ Based on U.S. Government Standard Tests.

⑥ Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.

⑦ Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

⑧ Standard Air — Dry Coil — Outdoor.

# General Data

| MODEL | 4DCY4048A3096C | 4DCY4060B1120C | 4DCY4060A3120C |
|---|---|---|---|
| **RATED Volts/PH/Hz** | 208-230/3/60 | 208-230/1/60 | 208-230/3/60 |
| **Performance Cooling BTUH**① | 47000 | 58000 | 57500 |
| Indoor Airflow (CFM) | 1470 | 1785 | 1745 |
| Power Input (KW) | 4.03 | 4.83 | 5.48 |
| EER/SEER(BTU/Watt-Hr.)⑤ | 10.65 / 14.0 | 12.0 / 14.0 | 11.5 / 14.0 |
| Sound Power Rating [dB(A)]⑦ | 73 | 76 | 76 |
| **HP Heating Performance** | | | |
| (High Temp.)BTUH / COP | 42500 / 3.5 | 55000 / 3.6 | 54500 / 3.5 |
| Power Input (KW) | 3.56 | 4.48 | 4.56 |
| (Low Temp.) BTUH / COP | 26800 / 2.3 | 35400 / 2.4 | 36400 / 2.48 |
| Power Input (KW) | 3.44 | 4.30 | 4.29 |
| HSPF (BTU / Watt-Hr.) | 8.0 | 8.0 | 8.0 |
| **Gas Heating Performance**② | | | |
| (High) Input BTUH | 96000 | 120000 | 120000 |
| Capacity BTUH | 77500 | 96000 | 96000 |
| Temp. Rise — Min/Max (°F) | 30 / 60 | 30 / 60 | 30 / 60 |
| (Low) Input BTUH | 72000 | 90000 | 90000 |
| Capacity BTUH | 62000 | 77500 | 77500 |
| AFUE | 80 | 80.0 | 80.0 |
| Type of Gas ③ | NATURAL | NATURAL | NATURAL |
| Gas Pipe Size (in.) | 1/2 | 1/2 | 1/2 |
| **POWER CONN.—V/PH/HZ** | 208-230/3/60 | 208-230/1/60 | 208-230/3/60 |
| Min. Brch. Cir. Ampacity④ | 25.3 | 39.9 | 28.6 |
| Fuse Size — Max. (amps) | 35 | 60 | 45 |
| Fuse Size — Recmd. (amps) | 35 | 60 | 45 |
| **COMPRESSOR** | SCROLL | SCROLL | SCROLL |
| Volts/Ph/Hz | 208-230/3/60 | 208-230/1/60 | 208-230/3/60 |
| R.L. Amps — L.R. Amps | 13.7 / 83.1 | 25 / 134 | 16.0 / 110 |
| **OUTDOOR COIL — TYPE** | SPINE-FIN | SPINE-FIN | SPINE-FIN |
| Rows/F.P.I. | 2 / 24 | 2 / 24 | 2 / 24 |
| Face Area (sq.ft.) | 18.01 | 23.07 | 23.57 |
| Tube Size (in.) | 3/8 | 3/8 | 3/8 |
| Refrigerant Control | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE |
| **INDOOR COIL — TYPE** | PLATE FIN | PLATE FIN | PLATE FIN |
| Rows/F.P.I. | 3 / 15 | 4 / 15 | 4 / 15 |
| Face Area (sq.ft.) | 5.0 | 5.0 | 5.0 |
| Tube Size (in.) | 3/8 | 3/8 | 3/8 |
| Refrigerant Control | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE |
| Drain Conn. Size (in.) | 3/4 FEMALE NPT | 3/4 FEMALE NPT | 3/4 FEMALE NPT |
| **OUTDOOR FAN — TYPE** | PROPELLER | PROPELLER | PROPELLER |
| Dia. (in.) | 28.2 | 28.2 | 28.2 |
| Drive/No. Speeds | DIRECT / 1 | DIRECT / 1 | DIRECT / 1 |
| CFM @ 0.0 in. w.g. ⑦ | 4450 | 5710 | |
| Motor — HP/R.P.M. | 1/4 / 825 | 1/3 / 830 | 1/3 / 830 |
| Volts/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| F.L. Amps/L.R. Amps | 1.4 / 3.5 | 1.7 / 3.5 | 1.7 / 3.5 |
| **INDOOR FAN — TYPE** | CENTRIFUGAL | CENTRIFUGAL | CENTRIFUGAL |
| Dia x Width (in.) | 11 X 10 | 11 X 10 | 11 X 10 |
| Drive/No. Speeds | DIRECT / VARIABLE | DIRECT / VARIABLE | DIRECT / VARIABLE |
| CFM @ 0.0 in. w.g.⑤ | SEE FAN PERFORMANCE TABLE | SEE FAN PERFORMANCE TABLE | SEE FAN PERFORMANCE TABLE |
| Motor — HP/R.P.M. | 3/4 / VARIABLE | 1 / VARIABLE | 1 / VARIABLE |
| Volts/Ph/Hz | 200-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| F.L. Amps/L.R. Amps | 6.8 / 6.8 | 6.9 / 6.9 | 6.9 / 6.9 |
| **COMBUSTION FAN — TYPE** | CENTRIFUGAL | CENTRIFUGAL | CENTRIFUGAL |
| Drive/No. Speeds | DIRECT / 2 | DIRECT / 2 | DIRECT / 2 |
| Motor — HP/R.P.M. (High/Low) | 1/45 / 2800/1500 | 1/45 / 2800/1500 | 1/45 / 2800/1500 |
| Volts/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| FLA | 0.34 | 0.34 | 0.34 |
| **FILTER / FURNISHED** | NO | NO | NO |
| Type Recommended | THROWAWAY | THROWAWAY | THROWAWAY |
| Recmd. Face Area (sq. ft.)⑥ | 5.3 | 6.7 | 6.7 |
| **REFRIGERANT / Charge (lbs.)** | R410A / 7.75 | R410A / 11.94 | R410A / 10.125 |
| **DIMENSIONS** | H X W X L | H X W X L | H X W X L |
| Crated (in.) | 47.86 / 47.4 / 61.75 | 51.86 / 47.4 / 61.75 | 51.86 / 47.4 / 61.75 |
| **WEIGHT / Shipping / Net (lbs.)** | 653 / 525 | 676 / 548 | 676 / 548 |

① Certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.

② All models are U L Listed. Ratings shown are for elevations up to 2000 ft. For higher elevations reduce ratings at a rate of 4% per 1000 ft. elevation.

③ Convertible to LPG.

④ This value is approximate. For more precise value, see Unit Nameplate.

⑤ Based on U.S. Government Standard Tests.

⑥ Filters must be installed in return air stream. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendation with a clean resistance of 0.05" W.C.

⑦ Sound Power values are not adjusted for AHRI 270-95 tonal corrections.

⑧ Standard Air — Dry Coil — Outdoor.

# TECHNICAL GUIDE

## R-410A
## ZE/ZF/ZR/XN/XP SERIES
## 3 - 6 TON
## 60 Hertz


### Description

YORK® ZE/ZF/ZR/XN/XP Series units are convertible single package high efficiency rooftops with a common roof curb for the 3, 4, 5 and 6 Ton sizes (ZE, ZR, XN, XP not available in 6 Ton). Although the units are primarily designed for curb mounting on a roof, they can also be slab-mounted at ground level or set on steel beams above a finished roof.

All ZE/ZF/ZR/XN/XP Series units are self-contained and assembled on rigid full perimeter base rails allowing for overhead rigging. Every unit is completely charged, wired, piped and tested at the factory to provide a quick and easy field installation.

All models (including those with an economizer) are convertible between bottom and horizontal duct connections.

ZE/ZF/ZR Series units are available in the following configurations: cooling only, cooling with electric heat, and cooling with one or two stage gas heat. Electric heaters are available as factory-installed option or field installed accessory.

XN/XP Series units are available in the following configurations: cooling and heating only and cooling and heating with electric heat.

Tested in accordance with:

AHRI CERTIFIED www.ahridirectory.org Unitary Small AC AHRI Standard 210/240

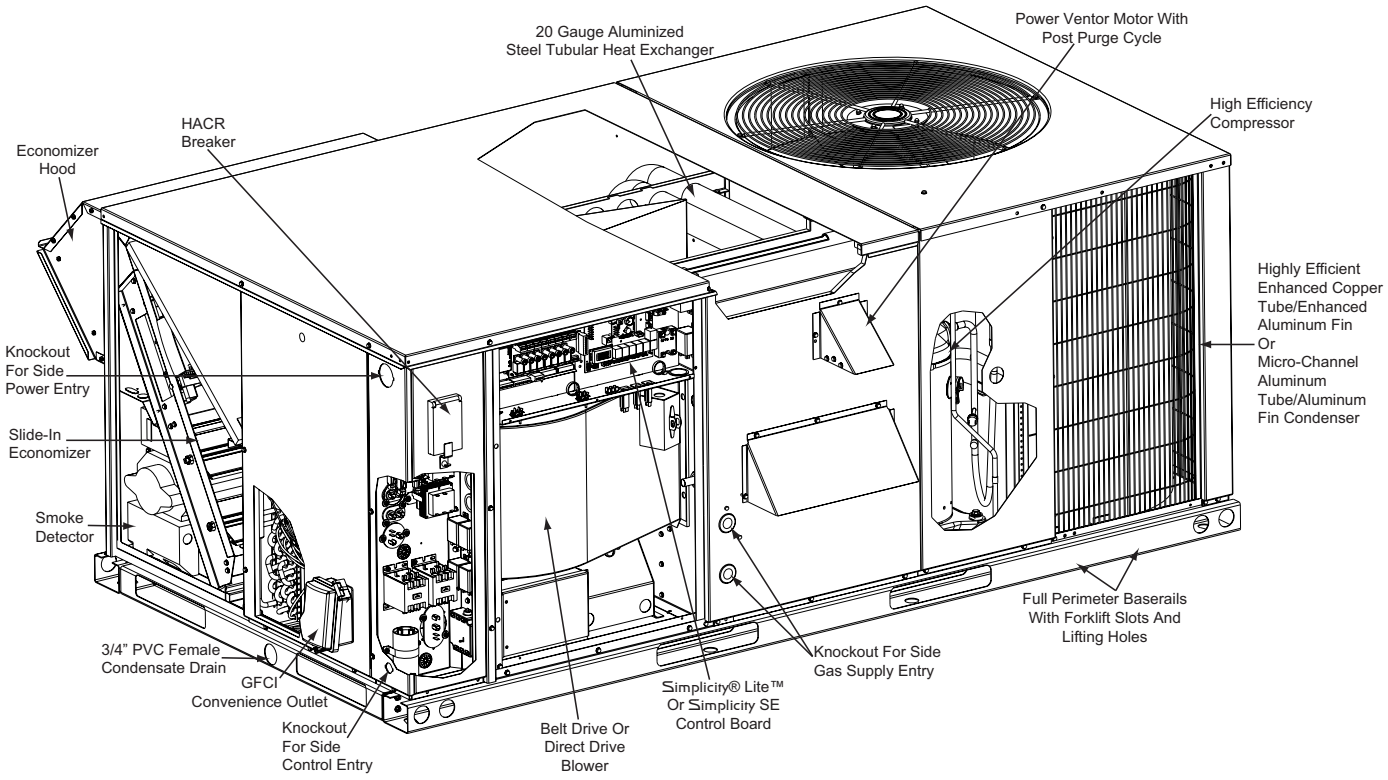
AHRI CERTIFIED www.ahridirectory.org Unitary Small HP AHRI Standard 210/240

## Table of Contents



## Component Location

### Gas/Electric



# Sound Performance

### ZF/ZR/XP Indoor Sound Power Levels

| Size (Tons) | CFM | ESP (IWG) | Blower | | Sound Power, dB ($10^{-12}$) Watts | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Sound Rating[1] dB (A) | Octave Band Centerline Frequency (Hz) | | | | | | |
| | | | RPM | BHP | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 036 (3.0) | 1200 | 0.2 | 630 | 0.41 | 63 | 82 | 77 | 59 | 50 | 43 | 42 | 40 | 45 |
| 048 (4.0) | 1600 | 0.2 | 791 | 0.54 | 72 | 95 | 84 | 58 | 54 | 46 | 44 | 45 | 44 |
| 060 (5.0) | 2000 | 0.2 | 840 | 0.67 | 62 | 84 | 71 | 58 | 53 | 50 | 49 | 49 | 49 |
| 072 (6.0) | 2200 | 0.3 | 920 | 1.45 | 76 | 61 | 71 | 68 | 67 | 72 | 66 | 61 | 54 |

1. These values have been accessed using a model of sound propagation from a point source into the hemispheric/free field. The dBA values provided are to be used for reference only. Calculation of dBA values cover matters of system design and the fan manufacture has no way of knowing the details of each system. This constitutes an exception to any specification or guarantee requiring a dBA value of sound data in any other form than sound power level ratings.

### ZE/ZF/ZR Outdoor Sound Power Levels

| Size (Tons) | Sound Rating[1] dB (A) | Octave Band Centerline Frequency (Hz) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 036 (3.0) | 81 | 87.5 | 86.0 | 81.0 | 77.0 | 75.0 | 69.5 | 65.5 | 70.5 |
| 048 (4.0) | 80 | 84.5 | 81.0 | 80.0 | 78.0 | 75.0 | 70.0 | 67.0 | 70.5 |
| 060 (5.0) | 82 | 86.5 | 87.5 | 81.5 | 77.5 | 75.0 | 71.5 | 68.0 | 70.5 |
| 072 (6.0) | 83 | - | 84.0 | 85.0 | 79.0 | 80.0 | 72.0 | 67.5 | 62.5 |

1. Rated in accordance with AHRI 270 standard.

### XN/XP Outdoor Sound Power Levels

| Size (Tons) | Sound Rating[1] dB (A) | Octave Band Centerline Frequency (Hz) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 036 (3.0) | 76 | 83.5 | 84.5 | 76.5 | 72.0 | 68.0 | 66.0 | 60.0 | 56.0 |
| 048 (4.0) | 80 | 85.0 | 83.0 | 81.0 | 77.5 | 75.5 | 71.5 | 67.5 | 61.5 |
| 060 (5.0) | 80 | 86.0 | 84.0 | 81.0 | 77.0 | 75.5 | 71.0 | 66.5 | 60.5 |

1. Rated in accordance with AHRI 270 standard.

# TECHNICAL GUIDE
# R-410A
# ZF SERIES
# 6.5 - 12.5 TON
# 60 Hertz


ZF 6.5 THROUGH 10 TON


ZF12.5 TON

## Description

**ASHRAE 90.1 COMPLIANT**

YORK® Predator® units are convertible single packages with a common footprint cabinet and common roof curb for all 6.5 through 12.5 ton models. All units have two compressors with independent refrigeration circuits to provide 2 stages of cooling. The units were designed for light commercial applications and can be easily installed on a roof curb, slab, or frame.

All Predator® units are self-contained and assembled on rigid full perimeter base rails allowing for 3-way forklift access and overhead rigging. Every unit is completely charged, wired, piped, and tested at the factory to provide a quick and easy field installation.

Predator® units in all tonnage sizes are convertible between side airflow and down airflow, with corresponding economizer if economizer option is desired.

Predator® units are available in the following configurations: cooling only, cooling with electric heat, and cooling with gas heat. Electric heaters are available as factory-installed options or field-installed accessories.

All units provide constant supply air volume. A variable air volume (VAV) option, which features a variable frequency drive (VFD), is available on 6.5 through 12.5 ton models.

SMART EQUIPMENT

Tested in accordance with:

DESIGN CERTIFIED

C SA US

AHRI CERTIFIED
www.ahridirectory.org
Unitary Large AC
AHRI Standard 340/360

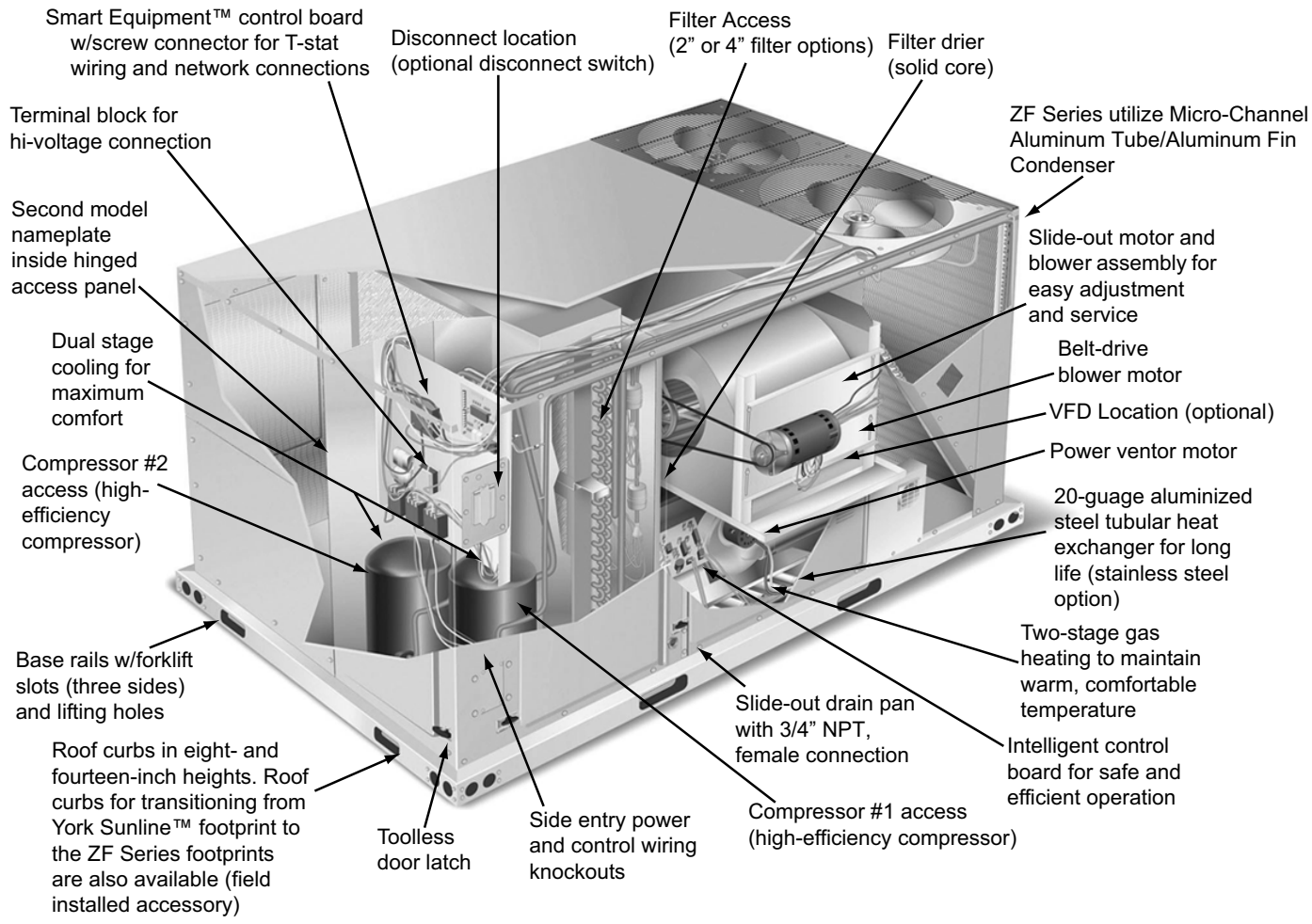
CERTIFIED

## Table of Contents



## Component Location

### Cooling With Gas Heat



### Electric Heat Multipliers

| Voltage | | kW Capacity Multipliers[1] |
|---|---|---|
| Nominal | Applied | |
| 240 | 208 | 0.75 |
| | 230 | 0.92 |
| 480 | 460 | 0.92 |
| 600 | 575 | 0.92 |

1. Electric heaters are rated at nominal voltage. Use this table to determine the electric heat capacity for heaters applied at lower voltages.

## Sound Performance

### Indoor Sound Power Levels

| Size (Tons) | Model | CFM | ESP (IWG) | Blower | | Sound Power, dB ($10^{-12}$) Watts | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Sound Rating[1] dB (A) | Octave Band Centerline Frequency (Hz) | | | | | | | |
| | | | | RPM | BHP | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 078 (6.5) | ZF | 2600 | 0.6 | 812 | 1.14 | 74 | 71 | 73 | 73 | 71 | 69 | 65 | 65 | 60 |
| 090 (7.5) | ZF | 3000 | 0.6 | 854 | 1.47 | 77 | 74 | 76 | 76 | 74 | 72 | 68 | 68 | 63 |
| 102 (8.5) | ZF | 3400 | 0.6 | 872 | 1.65 | 80 | 77 | 79 | 79 | 77 | 75 | 71 | 71 | 66 |
| 120 (10) | ZF | 4000 | 0.6 | 959 | 2.29 | 83 | 80 | 82 | 82 | 80 | 78 | 74 | 74 | 69 |
| 150 (12.5) | ZF | 5000 | 0.6 | 1132 | 3.74 | 87 | 84 | 86 | 86 | 84 | 82 | 78 | 78 | 73 |

1. These values have been accessed using a model of sound propagation from a point source into the hemispheric/free field. The dBA values provided are to be used for reference only. Calculation of dBA values cover matters of system design and the fan manufacture has no way of knowing the details of each system. This constitutes an exception to any specification or guarantee requiring a dBA value of sound data in any other form than sound power level ratings.

### Outdoor Sound Power Levels

**ZF078-150**

| Size (Tons) | Model | Sound Rating[1] dB (A) | Octave Band Centerline Frequency (Hz) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 078 (6.5) | ZF | 84 | 86.0 | 87.5 | 86.0 | 82.5 | 79.0 | 73.5 | 68.5 | 62.0 |
| 090 (7.5) | ZF | 89 | 89.5 | 92.0 | 89.0 | 87.5 | 84.0 | 78.5 | 73.5 | 66.5 |
| 102 (8.5) | ZF | 91 | 91.5 | 93.5 | 92.5 | 89.0 | 85.5 | 80.5 | 76.0 | 71.0 |
| 120 (10) | ZF | 92 | 99.5 | 94.5 | 92.0 | 90.0 | 87.0 | 81.0 | 76.0 | 70.0 |
| 150 (12.5) | ZF | 88 | 91.0 | 92.5 | 90.0 | 85.0 | 81.5 | 77.0 | 73.0 | 66.5 |

1. Rated in accordance with AHRI 270 standard.

Sound Power Level, Sound Pressure Level

Per pg.1.12, Harris, Handbook of Acoustical Noise Measurements and Noise Control:

Lp=Lw-20*Log(R)-10.9+C, in meters - true for spherical spreading

Per Diehl, pg. 80:
(Ref: Diehl, George M. Machinery Acoustics, 1974.)
Lp=Ld=Lw-20*Log(R)+2.5, in feet - true for a free field above a reflecting plane.

Lp =Lw-20*Log(R)-0.5, in feet - in a free field without a reflecting plane

Per Black and Veatch spreadsheet:

Lp=Lw-10*Log(2PiR^2)

| Test Lw (dBA) | Test R (Ft) | Diehl (Reflecting Plane): Lp (dBA) |
|---|---|---|
| 92.0 | 50.0 | 60.5 |

# RAY-TRACE PROGRAM (FOR A POINT-SOURCE)

**Uses the Equation: $(A_{e4})_{point}=20*\log[(2*pi*N)^{1/2}/\tanh(2*pi*N)^{1/2}]+5dB$**
**(Ref. Pg.174, Noise and Vibration Control, L.L. Beranek Editor, 1971 Ed.**

**Project: Bond Project West Hollywood**
**Date: 02/08/21**
**By: MG**

**Please Enter: Using English (E) units or Metric (M) units ?** E

| Ray Trace Number/Description | Source-Receiver Distance (ft. or m) | Source Base Elev. (ft. or m) | Source Height above Ground (ft. or m) | Receiver Base Elev. (ft. or m) | Receiver Height above Ground (ft. or m) | Horizontal Barrier Dist. (in ref. to source) (ft. or m) | Barrier Base Elev. (ft. or m) | Barrier Height (ft. or m) | Dominant Freq.(Hz) | Source-Rcvr Straight-Line Dist. (ft. or m) | Source-Top-of-Barrier Dist. (ft. or m) | Receiver-Top-of-Barrier Dist. (ft. or m) | Lambda | $N_{max}$ | $AE_{(barriers)}$ (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Source -HVAC Noise 5th Flr Roof to Nearby Resi's | 20.0 | 149.5 | 4.0 | 100.0 | 5.0 | 10.0 | 100.0 | **49.5** | 500.0 | 52.5 | 10.8 | 45.6 | 2.3 | 3.5 | **18.4** |
| 1. Source -HVAC Noise 7th Flr Roof to Nearby Resi's | 45.0 | 171.5 | 4.0 | 100.0 | 5.0 | 35.0 | 100.0 | **71.5** | 500.0 | 83.6 | 35.2 | 67.2 | 2.3 | 16.7 | **25.2** |

# Traffic Noise Model Input / Output

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dudek** | | | | | **11 October 2022** | | | | | | | |
| **MG** | | | | | **TNM 2.5** | | | | | | | |
| **INPUT: ROADWAYS** | | | | | | | **Average pavement type shall be used unless** | | | | | |
| **PROJECT/CONTRACT:** | **9127** | | | | | | **a State highway agency substantiates the use** | | | | | |
| **RUN:** | **SM Blvd/O.Grove We Ho Exist 101122** | | | | | | **of a different type with the approval of FHWA** | | | | | |
| **Roadway** | | **Points** | | | | | | | | | | |
| **Name** | **Width** | **Name** | **No.** | **Coordinates (pavement)** | | | **Flow Control** | | | **Segment** | | |
| | | | | **X** | **Y** | **Z** | **Control Device** | **Speed Constraint** | **Percent Vehicles Affected** | **Pvmt Type** | **On Struct?** | |
| | ft | | | ft | ft | ft | | mph | % | | | |
| N Fairfax Ave s of Santa Monica Blvd | 60.0 | point1 | 1 | 1,196.5 | 55.6 | 100.00 | | | | Average | | |
| | | point2 | 2 | 1,196.5 | 547.7 | 100.00 | | | | | | |
| N Fairfax Ave n of Santa Monica Blvd | 60.0 | point3 | 3 | 1,195.7 | 613.6 | 100.00 | | | | Average | | |
| | | point4 | 4 | 1,162.7 | 1,852.9 | 100.00 | | | | Average | | |
| | | point5 | 5 | 1,160.1 | 1,979.6 | 100.00 | | | | | | |
| Santa Monica Blvd w. of N. Fairfax | 55.0 | point6 | 6 | 2.1 | 561.0 | 100.00 | | | | Average | | |
| | | point7 | 7 | 291.4 | 563.0 | 100.00 | | | | Average | | |
| | | point8 | 8 | 737.0 | 573.4 | 100.00 | | | | Average | | |
| | | point9 | 9 | 1,197.4 | 586.5 | 100.00 | | | | | | |
| N Orange GroveAve s of St Mnca Blvd | 38.0 | point15 | 15 | 1,482.2 | 93.3 | 100.00 | | | | Average | | |
| | | point16 | 16 | 1,475.6 | 561.3 | 100.00 | | | | | | |
| N Orange GroveAve n of St Mnca Blvd | 38.0 | point17 | 17 | 1,550.0 | 600.7 | 100.00 | | | | Average | | |
| | | point18 | 18 | 1,539.1 | 1,842.9 | 100.00 | | | | | | |
| N Ogden Ave s of Sta Mnca Blvd | 38.0 | point19 | 19 | 1,801.5 | 89.0 | 100.00 | | | | Average | | |
| | | point20 | 20 | 1,797.1 | 554.8 | 100.00 | | | | | | |
| N Ogden Ave n of Sta Mnca Blvd | 34.0 | point21 | 21 | 1,921.8 | 589.8 | 100.00 | | | | Average | | |
| | | point22 | 22 | 1,919.6 | 1,814.4 | 100.00 | | | | | | |
| N Genessee Ave s of St Mnca Blvd | 38.0 | point23 | 23 | 2,118.6 | 89.0 | 100.00 | | | | Average | | |
| | | point24 | 24 | 2,123.0 | 548.2 | 100.00 | | | | | | |
| N Genessee Ave n of St Mnca Blvd | 34.0 | point25 | 25 | 2,249.8 | 581.0 | 100.00 | | | | Average | | |
| | | point26 | 26 | 2,247.6 | 1,838.5 | 100.00 | | | | | | |
| Santa Monica Blvd Fairfax to OrngeGrv | 55.0 | point29 | 29 | 1,197.4 | 586.5 | 100.00 | | | | Average | | |
| | | point10 | 10 | 1,559.3 | 577.7 | 100.00 | | | | | | |
| Santa Monica Blvd OrngeGrv to Ogdon | 55.0 | point30 | 30 | 1,559.3 | 577.7 | 100.00 | | | | Average | | |
| | | point11 | 11 | 1,918.6 | 567.3 | 100.00 | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Monica Blvd Ogdon to Genesee | 55.0 | point31 | 31 | 1,918.6 | 567.3 | 100.00 | | | | Average | |
| | | point12 | 12 | 2,250.1 | 565.6 | 100.00 | | | | | |
| Santa Monica Blvd e of N Genesee Ave | 55.0 | point32 | 32 | 2,250.1 | 565.6 | 100.00 | | | | Average | |
| | | point13 | 13 | 2,668.4 | 560.5 | 100.00 | | | | Average | |
| | | point14 | 14 | 3,190.6 | 553.6 | 100.00 | | | | | |

**Dudek** **11 October 2022**
**MG** **TNM 2.5**

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**PROJECT/CONTRACT:** **9127**
**RUN:** **SM Blvd/O.Grove We Ho Exist 101122**

| **Roadway** | **Points** | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Name** | **Name** | **No.** | **Segment** | | | | | | | | | |
| | | | **Autos** | | **MTrucks** | | **HTrucks** | | **Buses** | | **Motorcycles** | |
| | | | **V** | **S** | **V** | **S** | **V** | **S** | **V** | **S** | **V** | **S** |
| | | | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph |
| N Fairfax Ave s of Santa Monica Blvd | point1 | 1 | 2126 | 35 | 44 | 35 | 22 | 35 | 0 | 0 | 0 | 0 |
| | point2 | 2 | | | | | | | | | | |
| N Fairfax Ave n of Santa Monica Blvd | point3 | 3 | 2087 | 25 | 43 | 25 | 22 | 25 | 0 | 0 | 0 | 0 |
| | point4 | 4 | 2087 | 25 | 43 | 25 | 22 | 25 | 0 | 0 | 0 | 0 |
| | point5 | 5 | | | | | | | | | | |
| Santa Monica Blvd w. of N. Fairfax | point6 | 6 | 2409 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point7 | 7 | 2409 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point8 | 8 | 2409 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point9 | 9 | | | | | | | | | | |
| N Orange GroveAve s of St Mnca Blvd | point15 | 15 | 167 | 25 | 3 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point16 | 16 | | | | | | | | | | |
| N Orange GroveAve n of St Mnca Blvd | point17 | 17 | 115 | 25 | 2 | 25 | 1 | 25 | 0 | 0 | 0 | 0 |
| | point18 | 18 | | | | | | | | | | |
| N Ogden Ave s of Sta Mnca Blvd | point19 | 19 | 167 | 25 | 3 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point20 | 20 | | | | | | | | | | |
| N Ogden Ave n of Sta Mnca Blvd | point21 | 21 | 228 | 25 | 5 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point22 | 22 | | | | | | | | | | |
| N Genessee Ave s of St Mnca Blvd | point23 | 23 | 153 | 25 | 3 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point24 | 24 | | | | | | | | | | |
| N Genessee Ave n of St Mnca Blvd | point25 | 25 | 190 | 25 | 4 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point26 | 26 | | | | | | | | | | |
| Santa Monica Blvd Fairfax to OrngeGrv | point29 | 29 | 2397 | 30 | 49 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point10 | 10 | | | | | | | | | | |

**INPUT: TRAFFIC FOR LAeq1h Volumes** **9127**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Monica Blvd OrngeGrv to Ogdon | point30 | 30 | 2427 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point11 | 11 | | | | | | | | | | |
| Santa Monica Blvd Ogdon to Genesee | point31 | 31 | 2456 | 30 | 51 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point12 | 12 | | | | | | | | | | |
| Santa Monica Blvd e of N Genesee Ave | point32 | 32 | 2417 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point13 | 13 | 2417 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point14 | 14 | | | | | | | | | | |

Dudek
MG

11 October 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grove We Ho Exist 101122

| Receiver Name | No. | #DUs | Coordinates (ground) X | Y | Z | Height above Ground | Input Sound Levels and Criteria: Existing LAeq1h | Impact Criteria LAeq1h | Impact Criteria Sub'l | NR Goal | Active in Calc. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ft | ft | ft | ft | dBA | dBA | dB | dB | |
| R1 / ST1 Proj Site on SMB | 18 | 1 | 1,753.6 | 613.0 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R2 /ST2 Resi n of Proj Site | 20 | 1 | 1,794.5 | 782.1 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R3 / ST3 Proj Site on N O.Grove Blvd | 21 | 1 | 1,572.0 | 796.3 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R4 / ST4 child car on N O.Grove Blvd | 22 | 1 | 1,579.0 | 923.0 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R5 / ST5 Resi N Ogden Dr n of SMB | 23 | 1 | 1,871.6 | 869.2 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R6 / ST6 Resi N Ogden Dr n of SMB | 24 | 1 | 1,944.6 | 820.6 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R7 Resi N Fairfax Ave n of SMB | 25 | 1 | 1,117.4 | 1,119.3 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R8 Res N Fairfax Ave s of SMB | 26 | 1 | 1,132.7 | 227.5 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R9 Resi N O.Grove Blvd s of SMB | 27 | 1 | 1,510.7 | 217.5 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R10 Resi N Ogden Dr s of SMB | 28 | 1 | 1,835.2 | 266.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R11 Resi N Genessee Ave n of SMB | 29 | 1 | 2,221.1 | 904.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R12 Resi N Genessee Ave s of SMB | 33 | 1 | 2,148.2 | 231.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |

Dudek 11 October 2022
MG TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grove We Ho Exist 101122

| Barrier | | | | | | | | | Points | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name | Type | Height | | If Wall | If Berm | | | Add'tnl | Name | No. | Coordinates (bottom) | | | Height | Segment | | | | |
| | | Min | Max | $ per | $ per | Top | Run:Rise | $ per | | | X | Y | Z | at | Seg Ht | Perturbs | | On | Important |
| | | | | Unit | Unit | Width | | Unit | | | | | | Point | Incre- | #Up | #Dn | Struct? | Reflec- |
| | | | | Area | Vol. | | | Length | | | | | | | ment | | | | tions? |
| | | ft | ft | $/sq ft | $/cu yd | ft | ft:ft | $/ft | | | ft | ft | ft | ft | ft | | | | |
| Barrier1 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point1 | 1 | 1,579.2 | 860.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point2 | 2 | 1,680.4 | 860.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point3 | 3 | 1,680.4 | 873.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point4 | 4 | 1,714.2 | 873.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point5 | 5 | 1,714.2 | 898.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point6 | 6 | 1,655.6 | 898.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point7 | 7 | 1,655.6 | 900.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point8 | 8 | 1,599.2 | 900.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point9 | 9 | 1,599.2 | 877.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point10 | 10 | 1,579.2 | 877.3 | 100.00 | 20.00 | | | | | |
| Barrier2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point11 | 11 | 1,731.4 | 863.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point12 | 12 | 1,865.1 | 861.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point13 | 13 | 1,865.7 | 907.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point14 | 14 | 1,732.0 | 909.4 | 100.00 | 20.00 | | | | | |
| Barrier3 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point15 | 15 | 1,732.1 | 915.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point16 | 16 | 1,867.8 | 915.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point17 | 17 | 1,868.0 | 960.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point18 | 18 | 1,732.3 | 960.7 | 100.00 | 20.00 | | | | | |
| Barrier4 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point19 | 19 | 1,772.7 | 610.4 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point20 | 20 | 1,878.8 | 609.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point21 | 21 | 1,881.8 | 760.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point22 | 22 | 1,775.7 | 760.9 | 100.00 | 15.00 | | | | | |
| Barrier5 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point23 | 23 | 1,827.2 | 773.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point24 | 24 | 1,865.8 | 773.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point25 | 25 | 1,865.8 | 807.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point26 | 26 | 1,827.2 | 807.1 | 100.00 | 20.00 | | | | | |
| Barrier6 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point27 | 27 | 1,732.1 | 966.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point28 | 28 | 1,866.5 | 966.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point29 | 29 | 1,866.5 | 1,060.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point30 | 30 | 1,732.1 | 1,060.6 | 100.00 | 20.00 | | | | | |
| Barrier7 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point31 | 31 | 1,940.6 | 765.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point32 | 32 | 1,977.8 | 765.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point33 | 33 | 1,978.2 | 807.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point34 | 34 | 1,941.0 | 808.1 | 100.00 | 20.00 | | | | | |
| Barrier8 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point36 | 36 | 1,951.3 | 815.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point37 | 37 | 2,061.9 | 813.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point38 | 38 | 2,062.6 | 844.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point39 | 39 | 1,951.7 | 845.8 | 100.00 | 20.00 | | | | | |
| Barrier9 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point40 | 40 | 1,953.7 | 903.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point41 | 41 | 1,953.4 | 863.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point42 | 42 | 2,083.6 | 862.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point43 | 43 | 2,083.9 | 902.0 | 100.00 | 20.00 | | | | | |
| Barrier10 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point45 | 45 | 1,954.1 | 917.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point46 | 46 | 2,043.3 | 916.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point47 | 47 | 2,043.8 | 957.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point48 | 48 | 1,973.4 | 958.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point49 | 49 | 1,973.3 | 949.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point50 | 50 | 1,954.5 | 949.5 | 100.00 | 20.00 | | | | | |
| Barrier11 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point52 | 52 | 1,864.9 | 814.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point53 | 53 | 1,865.4 | 852.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point54 | 54 | 1,828.9 | 853.2 | 100.00 | 20.00 | | | | | |
| Barrier12 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point56 | 56 | 1,736.8 | 816.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point57 | 57 | 1,819.5 | 815.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point58 | 58 | 1,820.3 | 848.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point59 | 59 | 1,736.6 | 848.0 | 100.00 | 20.00 | | | | | |
| Barrier13 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point60 | 60 | 1,622.5 | 611.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point61 | 61 | 1,676.0 | 609.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point62 | 62 | 1,673.9 | 692.0 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point63 | 63 | 1,619.2 | 692.0 | 100.00 | 15.00 | | | | | |
| Barrier14 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point64 | 64 | 1,676.6 | 611.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point65 | 65 | 1,724.7 | 610.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point66 | 66 | 1,723.1 | 760.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point67 | 67 | 1,622.5 | 759.8 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point68 | 68 | 1,623.0 | 709.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point69 | 69 | 1,673.3 | 709.5 | 100.00 | 15.00 | | | | | |
| Barrier15 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point70 | 70 | 1,621.4 | 731.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point71 | 71 | 1,620.8 | 761.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point72 | 72 | 1,569.4 | 761.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point73 | 73 | 1,571.1 | 731.4 | 100.00 | 20.00 | | | | | |
| Barrier16 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point74 | 74 | 1,946.7 | 609.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point75 | 75 | 2,093.8 | 607.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point76 | 76 | 2,094.7 | 675.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point77 | 77 | 2,047.8 | 676.6 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point78 | 78 | 2,047.3 | 643.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point79 | 79 | 1,948.6 | 643.3 | 100.00 | 15.00 | | | | | |
| Barrier17 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point81 | 81 | 1,468.0 | 629.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point82 | 82 | 1,508.7 | 628.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point83 | 83 | 1,507.5 | 680.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point84 | 84 | 1,465.8 | 681.0 | 100.00 | 15.00 | | | | | |
| Barrier18 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point85 | 85 | 1,448.9 | 727.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point86 | 86 | 1,509.2 | 727.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point87 | 87 | 1,510.5 | 830.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point88 | 88 | 1,471.4 | 830.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point89 | 89 | 1,471.4 | 815.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point90 | 90 | 1,447.6 | 815.5 | 100.00 | 20.00 | | | | | |
| Barrier19 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point91 | 91 | 1,350.3 | 841.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point92 | 92 | 1,507.4 | 840.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point93 | 93 | 1,508.2 | 981.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point94 | 94 | 1,406.4 | 981.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point95 | 95 | 1,406.5 | 1,011.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point96 | 96 | 1,351.3 | 1,011.8 | 100.00 | 20.00 | | | | | |
| Barrier20 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point97 | 97 | 1,572.9 | 1,017.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point98 | 98 | 1,709.3 | 1,018.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point99 | 99 | 1,708.8 | 1,113.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point100 | 100 | 1,572.4 | 1,112.3 | 100.00 | 20.00 | | | | | |
| Barrier21 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point101 | 101 | 1,500.2 | 532.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point102 | 102 | 1,773.6 | 532.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point103 | 103 | 1,773.6 | 408.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point104 | 104 | 1,664.8 | 408.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point105 | 105 | 1,664.8 | 459.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point106 | 106 | 1,500.2 | 459.9 | 100.00 | 15.00 | | | | | |
| Barrier22 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point108 | 108 | 1,930.5 | 531.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point109 | 109 | 2,094.5 | 530.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point110 | 110 | 2,093.9 | 462.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point111 | 111 | 1,960.8 | 463.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point112 | 112 | 1,960.4 | 406.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point113 | 113 | 1,929.5 | 406.5 | 100.00 | 15.00 | | | | | |
| Barrier23 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point115 | 115 | 2,071.9 | 389.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point116 | 116 | 2,075.8 | 145.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point117 | 117 | 1,852.2 | 143.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point118 | 118 | 1,848.4 | 385.6 | 100.00 | 20.00 | | | | | |
| Barrier24 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point119 | 119 | 1,643.6 | 389.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point120 | 120 | 1,759.3 | 388.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point121 | 121 | 1,760.7 | 97.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point122 | 122 | 1,649.1 | 98.6 | 100.00 | 20.00 | | | | | |
| Barrier25 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point123 | 123 | 1,519.6 | 106.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point124 | 124 | 1,628.3 | 105.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point125 | 125 | 1,630.1 | 295.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point126 | 126 | 1,603.6 | 295.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point127 | 127 | 1,604.1 | 349.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point128 | 128 | 1,579.2 | 349.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point129 | 129 | 1,579.5 | 382.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point130 | 130 | 1,544.4 | 382.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point131 | 131 | 1,544.0 | 348.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point132 | 132 | 1,521.9 | 348.2 | 100.00 | 20.00 | | | | | |
| Barrier26 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point133 | 133 | 1,953.8 | 970.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point134 | 134 | 2,087.4 | 969.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point135 | 135 | 2,092.4 | 1,352.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point136 | 136 | 1,958.8 | 1,354.4 | 100.00 | 20.00 | | | | | |
| Barrier27 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point137 | 137 | 2,125.0 | 740.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point138 | 138 | 2,215.2 | 740.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point139 | 139 | 2,215.2 | 920.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point140 | 140 | 2,125.0 | 920.9 | 100.00 | 20.00 | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barrier28 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point141 | 141 | 2,125.0 | 933.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point142 | 142 | 2,206.6 | 933.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point143 | 143 | 2,206.6 | 1,408.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point144 | 144 | 2,125.0 | 1,408.3 | 100.00 | 20.00 | | | | | |
| Barrier29 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point145 | 145 | 1,449.8 | 475.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point146 | 146 | 1,449.3 | 542.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point147 | 147 | 1,251.3 | 544.6 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point148 | 148 | 1,250.7 | 475.7 | 100.00 | 15.00 | | | | | |
| Barrier30 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point149 | 149 | 1,135.4 | 413.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point150 | 150 | 1,134.1 | 528.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point151 | 151 | 836.7 | 524.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point152 | 152 | 837.9 | 409.9 | 100.00 | 15.00 | | | | | |
| Barrier31 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point153 | 153 | 1,141.1 | 624.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point154 | 154 | 1,141.1 | 766.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point155 | 155 | 876.5 | 766.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point156 | 156 | 876.5 | 672.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point157 | 157 | 977.1 | 672.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point158 | 158 | 977.1 | 624.3 | 100.00 | 15.00 | | | | | |
| Barrier32 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point159 | 159 | 1,136.9 | 788.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point160 | 160 | 1,138.3 | 922.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point161 | 161 | 1,030.9 | 923.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point162 | 162 | 1,029.5 | 789.4 | 100.00 | 20.00 | | | | | |
| Barrier33 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point163 | 163 | 1,223.8 | 861.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point164 | 164 | 1,223.8 | 917.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point165 | 165 | 1,349.2 | 917.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point166 | 166 | 1,349.2 | 861.3 | 100.00 | 20.00 | | | | | |
| Barrier34 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point167 | 167 | 1,324.4 | 989.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point168 | 168 | 1,327.2 | 1,138.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point169 | 169 | 1,371.2 | 1,137.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point170 | 170 | 1,372.4 | 1,200.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point171 | 171 | 1,267.9 | 1,202.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point172 | 172 | 1,264.8 | 1,032.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point173 | 173 | 1,237.6 | 1,032.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point174 | 174 | 1,236.9 | 991.1 | 100.00 | 20.00 | | | | | |
| Barrier35 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point175 | 175 | 1,212.7 | 1,229.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point176 | 176 | 1,324.4 | 1,227.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point177 | 177 | 1,324.4 | 1,267.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point178 | 178 | 1,208.6 | 1,269.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point179 | 179 | 1,210.0 | 1,219.6 | 100.00 | 20.00 | | | | | |
| Barrier36 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point180 | 180 | 1,101.1 | 979.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point181 | 181 | 1,098.4 | 1,081.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point182 | 182 | 929.0 | 1,077.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point183 | 183 | 931.7 | 975.3 | 100.00 | 20.00 | | | | | |
| Barrier37 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point185 | 185 | 2,276.6 | 610.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point186 | 186 | 2,276.6 | 697.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point187 | 187 | 2,642.7 | 697.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point188 | 188 | 2,642.7 | 610.3 | 100.00 | 15.00 | | | | | |
| Barrier38 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point189 | 189 | 1,089.5 | 389.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point190 | 190 | 1,087.3 | 242.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point191 | 191 | 1,128.8 | 242.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point192 | 192 | 1,131.0 | 388.8 | 100.00 | 20.00 | | | | | |
| Barrier39 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point194 | 194 | 1,352.7 | 394.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point195 | 195 | 1,446.4 | 392.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point196 | 196 | 1,444.7 | 305.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point197 | 197 | 1,350.9 | 307.6 | 100.00 | 20.00 | | | | | |
| Barrier40 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point198 | 198 | 1,260.6 | 285.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point199 | 199 | 1,429.1 | 283.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point200 | 200 | 1,432.4 | 92.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point201 | 201 | 1,258.7 | 94.1 | 100.00 | 20.00 | | | | | |
| Barrier41 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point202 | 202 | 2,145.4 | 522.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point203 | 203 | 2,147.6 | 398.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point204 | 204 | 2,414.4 | 398.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point205 | 205 | 2,414.4 | 523.2 | 100.00 | 15.00 | | | | | |
| Barrier42 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point206 | 206 | 2,160.8 | 277.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point207 | 207 | 2,165.1 | 46.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point208 | 208 | 2,285.4 | 43.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point209 | 209 | 2,281.1 | 275.7 | 100.00 | 20.00 | | | | | |

Dudek
MG
11 October 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grove We Ho Exist 101122
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

| Receiver Name | No. | #DUs | Existing LAeq1h | No Barrier LAeq1h Calculated | Crit'n | Increase over existing Calculated | Increase over existing Crit'n Sub'l Inc | Type Impact | With Barrier Calculated LAeq1h | Noise Reduction Calculated | Noise Reduction Goal | Calculated minus Goal |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | dBA | dBA | dBA | dB | dB | | dBA | dB | dB | dB |
| R1 / ST1 Proj Site on SMB | 18 | 1 | 0.0 | 67.7 | 66 | 67.7 | 10 | Snd Lvl | 67.7 | 0.0 | 8 | -8.0 |
| R2 /ST2 Resi n of Proj Site | 20 | 1 | 0.0 | 43.3 | 66 | 43.3 | 10 | ---- | 43.3 | 0.0 | 8 | -8.0 |
| R3 / ST3 Proj Site on N O.Grove Blvd | 21 | 1 | 0.0 | 56.6 | 66 | 56.6 | 10 | ---- | 56.6 | 0.0 | 8 | -8.0 |
| R4 / ST4 child car on N O.Grove Blvd | 22 | 1 | 0.0 | 54.4 | 66 | 54.4 | 10 | ---- | 54.4 | 0.0 | 8 | -8.0 |
| R5 / ST5 Resi N Ogden Dr n of SMB | 23 | 1 | 0.0 | 55.0 | 66 | 55.0 | 10 | ---- | 55.0 | 0.0 | 8 | -8.0 |
| R6 / ST6 Resi N Ogden Dr n of SMB | 24 | 1 | 0.0 | 58.3 | 66 | 58.3 | 10 | ---- | 58.3 | 0.0 | 8 | -8.0 |
| R7 Resi N Fairfax Ave n of SMB | 25 | 1 | 0.0 | 63.2 | 66 | 63.2 | 10 | ---- | 63.2 | 0.0 | 8 | -8.0 |
| R8 Res N Fairfax Ave s of SMB | 26 | 1 | 0.0 | 66.2 | 66 | 66.2 | 10 | Snd Lvl | 66.2 | 0.0 | 8 | -8.0 |
| R9 Resi N O.Grove Blvd s of SMB | 27 | 1 | 0.0 | 56.1 | 66 | 56.1 | 10 | ---- | 56.1 | 0.0 | 8 | -8.0 |
| R10 Resi N Ogden Dr s of SMB | 28 | 1 | 0.0 | 55.7 | 66 | 55.7 | 10 | ---- | 55.7 | 0.0 | 8 | -8.0 |
| R11 Resi N Genessee Ave n of SMB | 29 | 1 | 0.0 | 57.3 | 66 | 57.3 | 10 | ---- | 57.3 | 0.0 | 8 | -8.0 |
| R12 Resi N Genessee Ave s of SMB | 33 | 1 | 0.0 | 56.3 | 66 | 56.3 | 10 | ---- | 56.3 | 0.0 | 8 | -8.0 |

| Dwelling Units | # DUs | Noise Reduction Min | Noise Reduction Avg | Noise Reduction Max |
|---|---|---|---|---|
| | | dB | dB | dB |
| All Selected | 12 | 0.0 | 0.0 | 0.0 |
| All Impacted | 2 | 0.0 | 0.0 | 0.0 |
| All that meet NR Goal | 0 | 0.0 | 0.0 | 0.0 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dudek** | | | | | **11 October 2022** | | | | | | | |
| **MG** | | | | | **TNM 2.5** | | | | | | | |
| **INPUT: ROADWAYS** | | | | | | | | **Average pavement type shall be used unless** | | | | |
| **PROJECT/CONTRACT:** | **9127** | | | | | | | **a State highway agency substantiates the use** | | | | |
| **RUN:** | **SM Blvd/O.Grove We Ho Exi w Prj101122** | | | | | | | **of a different type with the approval of FHWA** | | | | |
| **Roadway** | | **Points** | | | | | | | | | | |
| **Name** | **Width** | **Name** | **No.** | **Coordinates (pavement)** | | | | **Flow Control** | | | **Segment** | |
| | | | | **X** | **Y** | **Z** | | **Control Device** | **Speed Constraint** | **Percent Vehicles Affected** | **Pvmt Type** | **On Struct?** |
| | ft | | | ft | ft | ft | | | mph | % | | |
| N Fairfax Ave s of Santa Monica Blvd | 60.0 | point1 | 1 | 1,196.5 | 55.6 | 100.00 | | | | | Average | |
| | | point2 | 2 | 1,196.5 | 547.7 | 100.00 | | | | | | |
| N Fairfax Ave n of Santa Monica Blvd | 60.0 | point3 | 3 | 1,195.7 | 613.6 | 100.00 | | | | | Average | |
| | | point4 | 4 | 1,162.7 | 1,852.9 | 100.00 | | | | | Average | |
| | | point5 | 5 | 1,160.1 | 1,979.6 | 100.00 | | | | | | |
| Santa Monica Blvd w. of N. Fairfax | 55.0 | point6 | 6 | 2.1 | 561.0 | 100.00 | | | | | Average | |
| | | point7 | 7 | 291.4 | 563.0 | 100.00 | | | | | Average | |
| | | point8 | 8 | 737.0 | 573.4 | 100.00 | | | | | Average | |
| | | point9 | 9 | 1,197.4 | 586.5 | 100.00 | | | | | | |
| N Orange GroveAve s of St Mnca Blvd | 38.0 | point15 | 15 | 1,482.2 | 93.3 | 100.00 | | | | | Average | |
| | | point16 | 16 | 1,475.6 | 561.3 | 100.00 | | | | | | |
| N Orange GroveAve n of St Mnca Blvd | 38.0 | point17 | 17 | 1,550.0 | 600.7 | 100.00 | | | | | Average | |
| | | point18 | 18 | 1,539.1 | 1,842.9 | 100.00 | | | | | | |
| N Ogden Ave s of Sta Mnca Blvd | 38.0 | point19 | 19 | 1,801.5 | 89.0 | 100.00 | | | | | Average | |
| | | point20 | 20 | 1,797.1 | 554.8 | 100.00 | | | | | | |
| N Ogden Ave n of Sta Mnca Blvd | 34.0 | point21 | 21 | 1,921.8 | 589.8 | 100.00 | | | | | Average | |
| | | point22 | 22 | 1,919.6 | 1,814.4 | 100.00 | | | | | | |
| N Genessee Ave s of St Mnca Blvd | 38.0 | point23 | 23 | 2,118.6 | 89.0 | 100.00 | | | | | Average | |
| | | point24 | 24 | 2,123.0 | 548.2 | 100.00 | | | | | | |
| N Genessee Ave n of St Mnca Blvd | 34.0 | point25 | 25 | 2,249.8 | 581.0 | 100.00 | | | | | Average | |
| | | point26 | 26 | 2,247.6 | 1,838.5 | 100.00 | | | | | | |
| Santa Monica Blvd Fairfax to OrngeGrv | 55.0 | point29 | 29 | 1,197.4 | 586.5 | 100.00 | | | | | Average | |
| | | point10 | 10 | 1,559.3 | 577.7 | 100.00 | | | | | | |
| Santa Monica Blvd OrngeGrv to Ogdon | 55.0 | point30 | 30 | 1,559.3 | 577.7 | 100.00 | | | | | Average | |
| | | point11 | 11 | 1,918.6 | 567.3 | 100.00 | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Monica Blvd Ogdon to Genesee | 55.0 | point31 | 31 | 1,918.6 | 567.3 | 100.00 | | | | Average | |
| | | point12 | 12 | 2,250.1 | 565.6 | 100.00 | | | | | |
| Santa Monica Blvd e of N Genesee Ave | 55.0 | point32 | 32 | 2,250.1 | 565.6 | 100.00 | | | | Average | |
| | | point13 | 13 | 2,668.4 | 560.5 | 100.00 | | | | Average | |
| | | point14 | 14 | 3,190.6 | 553.6 | 100.00 | | | | | |

**Dudek** **11 October 2022**
**MG** **TNM 2.5**

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**PROJECT/CONTRACT:** 9127
**RUN:** SM Blvd/O.Grove We Ho Exi w Prj101122

| Roadway | Points | | Segment | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name | Name | No. | Autos | | MTrucks | | HTrucks | | Buses | | Motorcycles | |
| | | | V | S | V | S | V | S | V | S | V | S |
| | | | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph |
| N Fairfax Ave s of Santa Monica Blvd | point1 | 1 | 2135 | 35 | 44 | 35 | 22 | 35 | 0 | 0 | 0 | 0 |
| | point2 | 2 | | | | | | | | | | |
| N Fairfax Ave n of Santa Monica Blvd | point3 | 3 | 2093 | 25 | 43 | 25 | 22 | 25 | 0 | 0 | 0 | 0 |
| | point4 | 4 | 2093 | 25 | 43 | 25 | 22 | 25 | 0 | 0 | 0 | 0 |
| | point5 | 5 | | | | | | | | | | |
| Santa Monica Blvd w. of N. Fairfax | point6 | 6 | 2421 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point7 | 7 | 2421 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point8 | 8 | 2421 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point9 | 9 | | | | | | | | | | |
| N Orange GroveAve s of St Mnca Blvd | point15 | 15 | 167 | 25 | 3 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point16 | 16 | | | | | | | | | | |
| N Orange GroveAve n of St Mnca Blvd | point17 | 17 | 132 | 25 | 3 | 25 | 1 | 25 | 0 | 0 | 0 | 0 |
| | point18 | 18 | | | | | | | | | | |
| N Ogden Ave s of Sta Mnca Blvd | point19 | 19 | 167 | 25 | 3 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point20 | 20 | | | | | | | | | | |
| N Ogden Ave n of Sta Mnca Blvd | point21 | 21 | 237 | 25 | 5 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point22 | 22 | | | | | | | | | | |
| N Genessee Ave s of St Mnca Blvd | point23 | 23 | 157 | 25 | 3 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point24 | 24 | | | | | | | | | | |
| N Genessee Ave n of St Mnca Blvd | point25 | 25 | 190 | 25 | 4 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point26 | 26 | | | | | | | | | | |
| Santa Monica Blvd Fairfax to OrngeGrv | point29 | 29 | 2412 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point10 | 10 | | | | | | | | | | |

**INPUT: TRAFFIC FOR LAeq1h Volumes** **9127**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Monica Blvd OrngeGrv to Ogdon | point30 | 30 | 2441 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point11 | 11 | | | | | | | | | | |
| Santa Monica Blvd Ogdon to Genesee | point31 | 31 | 2474 | 30 | 51 | 30 | 26 | 30 | 0 | 0 | 0 | 0 |
| | point12 | 12 | | | | | | | | | | |
| Santa Monica Blvd e of N Genesee Ave | point32 | 32 | 2431 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point13 | 13 | 2431 | 30 | 50 | 30 | 25 | 30 | 0 | 0 | 0 | 0 |
| | point14 | 14 | | | | | | | | | | |

Dudek
MG

11 October 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grove We Ho Exi w Prj101122

Receiver

| Name | No. | #DUs | Coordinates (ground) | | | Height above Ground | Input Sound Levels and Criteria | | | | Active in Calc. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X | Y | Z | | Existing LAeq1h | Impact Criteria LAeq1h | Sub'l | NR Goal | |
| | | | ft | ft | ft | ft | dBA | dBA | dB | dB | |
| R1 / ST1 Proj Site on SMB | 18 | 1 | 1,753.6 | 613.0 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R2 /ST2 Resi n of Proj Site | 20 | 1 | 1,794.5 | 782.1 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R3 / ST3 Proj Site on N O.Grove Blvd | 21 | 1 | 1,572.0 | 796.3 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R4 / ST4 child car on N O.Grove Blvd | 22 | 1 | 1,579.0 | 923.0 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R5 / ST5 Resi N Ogden Dr n of SMB | 23 | 1 | 1,871.6 | 869.2 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R6 / ST6 Resi N Ogden Dr n of SMB | 24 | 1 | 1,944.6 | 820.6 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R7 Resi N Fairfax Ave n of SMB | 25 | 1 | 1,117.4 | 1,119.3 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R8 Res N Fairfax Ave s of SMB | 26 | 1 | 1,132.7 | 227.5 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R9 Resi N O.Grove Blvd s of SMB | 27 | 1 | 1,510.7 | 217.5 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R10 Resi N Ogden Dr s of SMB | 28 | 1 | 1,835.2 | 266.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R11 Resi N Genessee Ave n of SMB | 29 | 1 | 2,221.1 | 904.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R12 Resi N Genessee Ave s of SMB | 33 | 1 | 2,148.2 | 231.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |

Dudek 11 October 2022
MG TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grove We Ho Exi w Prj101122

| Barrier | | | | | | | | | Points | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name | Type | Height | | If Wall | If Berm | | | Add'tnl | Name | No. | Coordinates (bottom) | | | Height | Segment | | | | |
| | | Min | Max | $ per | $ per | Top | Run:Rise | $ per | | | X | Y | Z | at | Seg Ht | Perturbs | | On | Important |
| | | | | Unit | Unit | Width | | Unit | | | | | | Point | Incre- | #Up | #Dn | Struct? | Reflec- |
| | | | | Area | Vol. | | | Length | | | | | | | ment | | | | tions? |
| | | ft | ft | $/sq ft | $/cu yd | ft | ft:ft | $/ft | | | ft | ft | ft | ft | ft | | | | |
| Barrier1 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point1 | 1 | 1,579.2 | 860.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point2 | 2 | 1,680.4 | 860.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point3 | 3 | 1,680.4 | 873.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point4 | 4 | 1,714.2 | 873.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point5 | 5 | 1,714.2 | 898.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point6 | 6 | 1,655.6 | 898.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point7 | 7 | 1,655.6 | 900.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point8 | 8 | 1,599.2 | 900.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point9 | 9 | 1,599.2 | 877.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point10 | 10 | 1,579.2 | 877.3 | 100.00 | 20.00 | | | | | |
| Barrier2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point11 | 11 | 1,731.4 | 863.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point12 | 12 | 1,865.1 | 861.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point13 | 13 | 1,865.7 | 907.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point14 | 14 | 1,732.0 | 909.4 | 100.00 | 20.00 | | | | | |
| Barrier3 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point15 | 15 | 1,732.1 | 915.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point16 | 16 | 1,867.8 | 915.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point17 | 17 | 1,868.0 | 960.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point18 | 18 | 1,732.3 | 960.7 | 100.00 | 20.00 | | | | | |
| Barrier4 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point19 | 19 | 1,772.7 | 610.4 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point20 | 20 | 1,878.8 | 609.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point21 | 21 | 1,881.8 | 760.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point22 | 22 | 1,775.7 | 760.9 | 100.00 | 15.00 | | | | | |
| Barrier5 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point23 | 23 | 1,827.2 | 773.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point24 | 24 | 1,865.8 | 773.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point25 | 25 | 1,865.8 | 807.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point26 | 26 | 1,827.2 | 807.1 | 100.00 | 20.00 | | | | | |
| Barrier6 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point27 | 27 | 1,732.1 | 966.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point28 | 28 | 1,866.5 | 966.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point29 | 29 | 1,866.5 | 1,060.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point30 | 30 | 1,732.1 | 1,060.6 | 100.00 | 20.00 | | | | | |
| Barrier7 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point31 | 31 | 1,940.6 | 765.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point32 | 32 | 1,977.8 | 765.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point33 | 33 | 1,978.2 | 807.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point34 | 34 | 1,941.0 | 808.1 | 100.00 | 20.00 | | | | | |
| Barrier8 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point36 | 36 | 1,951.3 | 815.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point37 | 37 | 2,061.9 | 813.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point38 | 38 | 2,062.6 | 844.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point39 | 39 | 1,951.7 | 845.8 | 100.00 | 20.00 | | | | | |
| Barrier9 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point40 | 40 | 1,953.7 | 903.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point41 | 41 | 1,953.4 | 863.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point42 | 42 | 2,083.6 | 862.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point43 | 43 | 2,083.9 | 902.0 | 100.00 | 20.00 | | | | | |
| Barrier10 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point45 | 45 | 1,954.1 | 917.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point46 | 46 | 2,043.3 | 916.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point47 | 47 | 2,043.8 | 957.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point48 | 48 | 1,973.4 | 958.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point49 | 49 | 1,973.3 | 949.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point50 | 50 | 1,954.5 | 949.5 | 100.00 | 20.00 | | | | | |
| Barrier11 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point52 | 52 | 1,864.9 | 814.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point53 | 53 | 1,865.4 | 852.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point54 | 54 | 1,828.9 | 853.2 | 100.00 | 20.00 | | | | | |
| Barrier12 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point56 | 56 | 1,736.8 | 816.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point57 | 57 | 1,819.5 | 815.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point58 | 58 | 1,820.3 | 848.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point59 | 59 | 1,736.6 | 848.0 | 100.00 | 20.00 | | | | | |
| Barrier13 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point60 | 60 | 1,622.5 | 611.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point61 | 61 | 1,676.0 | 609.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point62 | 62 | 1,673.9 | 692.0 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point63 | 63 | 1,619.2 | 692.0 | 100.00 | 15.00 | | | | | |
| Barrier14 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point64 | 64 | 1,676.6 | 611.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point65 | 65 | 1,724.7 | 610.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point66 | 66 | 1,723.1 | 760.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point67 | 67 | 1,622.5 | 759.8 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point68 | 68 | 1,623.0 | 709.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point69 | 69 | 1,673.3 | 709.5 | 100.00 | 15.00 | | | | | |
| Barrier15 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point70 | 70 | 1,621.4 | 731.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point71 | 71 | 1,620.8 | 761.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point72 | 72 | 1,569.4 | 761.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point73 | 73 | 1,571.1 | 731.4 | 100.00 | 20.00 | | | | | |
| Barrier16 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point74 | 74 | 1,946.7 | 609.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point75 | 75 | 2,093.8 | 607.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point76 | 76 | 2,094.7 | 675.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point77 | 77 | 2,047.8 | 676.6 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point78 | 78 | 2,047.3 | 643.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point79 | 79 | 1,948.6 | 643.3 | 100.00 | 15.00 | | | | | |
| Barrier17 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point81 | 81 | 1,468.0 | 629.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point82 | 82 | 1,508.7 | 628.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point83 | 83 | 1,507.5 | 680.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point84 | 84 | 1,465.8 | 681.0 | 100.00 | 15.00 | | | | | |
| Barrier18 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point85 | 85 | 1,448.9 | 727.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point86 | 86 | 1,509.2 | 727.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point87 | 87 | 1,510.5 | 830.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point88 | 88 | 1,471.4 | 830.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point89 | 89 | 1,471.4 | 815.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point90 | 90 | 1,447.6 | 815.5 | 100.00 | 20.00 | | | | | |
| Barrier19 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point91 | 91 | 1,350.3 | 841.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point92 | 92 | 1,507.4 | 840.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point93 | 93 | 1,508.2 | 981.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point94 | 94 | 1,406.4 | 981.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point95 | 95 | 1,406.5 | 1,011.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point96 | 96 | 1,351.3 | 1,011.8 | 100.00 | 20.00 | | | | | |
| Barrier20 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point97 | 97 | 1,572.9 | 1,017.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point98 | 98 | 1,709.3 | 1,018.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point99 | 99 | 1,708.8 | 1,113.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point100 | 100 | 1,572.4 | 1,112.3 | 100.00 | 20.00 | | | | | |
| Barrier21 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point101 | 101 | 1,500.2 | 532.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point102 | 102 | 1,773.6 | 532.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point103 | 103 | 1,773.6 | 408.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point104 | 104 | 1,664.8 | 408.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point105 | 105 | 1,664.8 | 459.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point106 | 106 | 1,500.2 | 459.9 | 100.00 | 15.00 | | | | | |
| Barrier22 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point108 | 108 | 1,930.5 | 531.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point109 | 109 | 2,094.5 | 530.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point110 | 110 | 2,093.9 | 462.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point111 | 111 | 1,960.8 | 463.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point112 | 112 | 1,960.4 | 406.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point113 | 113 | 1,929.5 | 406.5 | 100.00 | 15.00 | | | | | |
| Barrier23 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point115 | 115 | 2,071.9 | 389.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point116 | 116 | 2,075.8 | 145.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point117 | 117 | 1,852.2 | 143.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point118 | 118 | 1,848.4 | 385.6 | 100.00 | 20.00 | | | | | |
| Barrier24 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point119 | 119 | 1,643.6 | 389.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point120 | 120 | 1,759.3 | 388.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point121 | 121 | 1,760.7 | 97.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point122 | 122 | 1,649.1 | 98.6 | 100.00 | 20.00 | | | | | |
| Barrier25 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point123 | 123 | 1,519.6 | 106.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point124 | 124 | 1,628.3 | 105.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point125 | 125 | 1,630.1 | 295.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point126 | 126 | 1,603.6 | 295.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point127 | 127 | 1,604.1 | 349.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point128 | 128 | 1,579.2 | 349.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point129 | 129 | 1,579.5 | 382.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point130 | 130 | 1,544.4 | 382.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point131 | 131 | 1,544.0 | 348.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point132 | 132 | 1,521.9 | 348.2 | 100.00 | 20.00 | | | | | |
| Barrier26 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point133 | 133 | 1,953.8 | 970.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point134 | 134 | 2,087.4 | 969.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point135 | 135 | 2,092.4 | 1,352.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point136 | 136 | 1,958.8 | 1,354.4 | 100.00 | 20.00 | | | | | |
| Barrier27 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point137 | 137 | 2,125.0 | 740.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point138 | 138 | 2,215.2 | 740.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point139 | 139 | 2,215.2 | 920.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point140 | 140 | 2,125.0 | 920.9 | 100.00 | 20.00 | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barrier28 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point141 | 141 | 2,125.0 | 933.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point142 | 142 | 2,206.6 | 933.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point143 | 143 | 2,206.6 | 1,408.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point144 | 144 | 2,125.0 | 1,408.3 | 100.00 | 20.00 | | | | | |
| Barrier29 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point145 | 145 | 1,449.8 | 475.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point146 | 146 | 1,449.3 | 542.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point147 | 147 | 1,251.3 | 544.6 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point148 | 148 | 1,250.7 | 475.7 | 100.00 | 15.00 | | | | | |
| Barrier30 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point149 | 149 | 1,135.4 | 413.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point150 | 150 | 1,134.1 | 528.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point151 | 151 | 836.7 | 524.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point152 | 152 | 837.9 | 409.9 | 100.00 | 15.00 | | | | | |
| Barrier31 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point153 | 153 | 1,141.1 | 624.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point154 | 154 | 1,141.1 | 766.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point155 | 155 | 876.5 | 766.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point156 | 156 | 876.5 | 672.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point157 | 157 | 977.1 | 672.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point158 | 158 | 977.1 | 624.3 | 100.00 | 15.00 | | | | | |
| Barrier32 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point159 | 159 | 1,136.9 | 788.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point160 | 160 | 1,138.3 | 922.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point161 | 161 | 1,030.9 | 923.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point162 | 162 | 1,029.5 | 789.4 | 100.00 | 20.00 | | | | | |
| Barrier33 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point163 | 163 | 1,223.8 | 861.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point164 | 164 | 1,223.8 | 917.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point165 | 165 | 1,349.2 | 917.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point166 | 166 | 1,349.2 | 861.3 | 100.00 | 20.00 | | | | | |
| Barrier34 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point167 | 167 | 1,324.4 | 989.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point168 | 168 | 1,327.2 | 1,138.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point169 | 169 | 1,371.2 | 1,137.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point170 | 170 | 1,372.4 | 1,200.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point171 | 171 | 1,267.9 | 1,202.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point172 | 172 | 1,264.8 | 1,032.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point173 | 173 | 1,237.6 | 1,032.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point174 | 174 | 1,236.9 | 991.1 | 100.00 | 20.00 | | | | | |
| Barrier35 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point175 | 175 | 1,212.7 | 1,229.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point176 | 176 | 1,324.4 | 1,227.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point177 | 177 | 1,324.4 | 1,267.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point178 | 178 | 1,208.6 | 1,269.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point179 | 179 | 1,210.0 | 1,219.6 | 100.00 | 20.00 | | | | | |
| Barrier36 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point180 | 180 | 1,101.1 | 979.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point181 | 181 | 1,098.4 | 1,081.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point182 | 182 | 929.0 | 1,077.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point183 | 183 | 931.7 | 975.3 | 100.00 | 20.00 | | | | | |
| Barrier37 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point185 | 185 | 2,276.6 | 610.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point186 | 186 | 2,276.6 | 697.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point187 | 187 | 2,642.7 | 697.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point188 | 188 | 2,642.7 | 610.3 | 100.00 | 15.00 | | | | | |
| Barrier38 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point189 | 189 | 1,089.5 | 389.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point190 | 190 | 1,087.3 | 242.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point191 | 191 | 1,128.8 | 242.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point192 | 192 | 1,131.0 | 388.8 | 100.00 | 20.00 | | | | | |
| Barrier39 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point194 | 194 | 1,352.7 | 394.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point195 | 195 | 1,446.4 | 392.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point196 | 196 | 1,444.7 | 305.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point197 | 197 | 1,350.9 | 307.6 | 100.00 | 20.00 | | | | | |
| Barrier40 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point198 | 198 | 1,260.6 | 285.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point199 | 199 | 1,429.1 | 283.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point200 | 200 | 1,432.4 | 92.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point201 | 201 | 1,258.7 | 94.1 | 100.00 | 20.00 | | | | | |
| Barrier41 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point202 | 202 | 2,145.4 | 522.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point203 | 203 | 2,147.6 | 398.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point204 | 204 | 2,414.4 | 398.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point205 | 205 | 2,414.4 | 523.2 | 100.00 | 15.00 | | | | | |
| Barrier42 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point206 | 206 | 2,160.8 | 277.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point207 | 207 | 2,165.1 | 46.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point208 | 208 | 2,285.4 | 43.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point209 | 209 | 2,281.1 | 275.7 | 100.00 | 20.00 | | | | | |

Dudek
MG
11 October 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grove We Ho Exi w Prj101122
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

| Receiver Name | No. | #DUs | Existing LAeq1h | No Barrier LAeq1h Calculated | Crit'n | Increase over existing Calculated | Increase over existing Crit'n Sub'l Inc | Type Impact | With Barrier Calculated LAeq1h | Noise Reduction Calculated | Noise Reduction Goal | Calculated minus Goal |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | dBA | dBA | dBA | dB | dB | | dBA | dB | dB | dB |
| R1 / ST1 Proj Site on SMB | 18 | 1 | 0.0 | 67.7 | 66 | 67.7 | 10 | Snd Lvl | 67.7 | 0.0 | 8 | -8.0 |
| R2 /ST2 Resi n of Proj Site | 20 | 1 | 0.0 | 43.4 | 66 | 43.4 | 10 | ---- | 43.4 | 0.0 | 8 | -8.0 |
| R3 / ST3 Proj Site on N O.Grove Blvd | 21 | 1 | 0.0 | 57.1 | 66 | 57.1 | 10 | ---- | 57.1 | 0.0 | 8 | -8.0 |
| R4 / ST4 child car on N O.Grove Blvd | 22 | 1 | 0.0 | 55.0 | 66 | 55.0 | 10 | ---- | 55.0 | 0.0 | 8 | -8.0 |
| R5 / ST5 Resi N Ogden Dr n of SMB | 23 | 1 | 0.0 | 55.1 | 66 | 55.1 | 10 | ---- | 55.1 | 0.0 | 8 | -8.0 |
| R6 / ST6 Resi N Ogden Dr n of SMB | 24 | 1 | 0.0 | 58.4 | 66 | 58.4 | 10 | ---- | 58.4 | 0.0 | 8 | -8.0 |
| R7 Resi N Fairfax Ave n of SMB | 25 | 1 | 0.0 | 63.2 | 66 | 63.2 | 10 | ---- | 63.2 | 0.0 | 8 | -8.0 |
| R8 Res N Fairfax Ave s of SMB | 26 | 1 | 0.0 | 66.2 | 66 | 66.2 | 10 | Snd Lvl | 66.2 | 0.0 | 8 | -8.0 |
| R9 Resi N O.Grove Blvd s of SMB | 27 | 1 | 0.0 | 56.1 | 66 | 56.1 | 10 | ---- | 56.1 | 0.0 | 8 | -8.0 |
| R10 Resi N Ogden Dr s of SMB | 28 | 1 | 0.0 | 55.7 | 66 | 55.7 | 10 | ---- | 55.7 | 0.0 | 8 | -8.0 |
| R11 Resi N Genessee Ave n of SMB | 29 | 1 | 0.0 | 57.3 | 66 | 57.3 | 10 | ---- | 57.3 | 0.0 | 8 | -8.0 |
| R12 Resi N Genessee Ave s of SMB | 33 | 1 | 0.0 | 56.4 | 66 | 56.4 | 10 | ---- | 56.4 | 0.0 | 8 | -8.0 |

| Dwelling Units | # DUs | Noise Reduction Min | Noise Reduction Avg | Noise Reduction Max |
|---|---|---|---|---|
| | | dB | dB | dB |
| All Selected | 12 | 0.0 | 0.0 | 0.0 |
| All Impacted | 2 | 0.0 | 0.0 | 0.0 |
| All that meet NR Goal | 0 | 0.0 | 0.0 | 0.0 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dudek** | | | | | **11 October 2022** | | | | | | | |
| **MG** | | | | | **TNM 2.5** | | | | | | | |
| **INPUT: ROADWAYS** | | | | | | | **Average pavement type shall be used unless** | | | | | |
| **PROJECT/CONTRACT:** | **9127** | | | | | | **a State highway agency substantiates the use** | | | | | |
| **RUN:** | **SM Blvd/O.Grove We Ho Cultv 101122** | | | | | | **of a different type with the approval of FHWA** | | | | | |
| **Roadway** | | **Points** | | | | | | | | | **Segment** | |
| **Name** | **Width** | **Name** | **No.** | **Coordinates (pavement)** | | | **Flow Control** | | | | | |
| | | | | **X** | **Y** | **Z** | **Control Device** | **Speed Constraint** | **Percent Vehicles Affected** | | **Pvmt Type** | **On Struct?** |
| | ft | | | ft | ft | ft | | mph | % | | | |
| N Fairfax Ave s of Santa Monica Blvd | 60.0 | point1 | 1 | 1,196.5 | 55.6 | 100.00 | | | | | Average | |
| | | point2 | 2 | 1,196.5 | 547.7 | 100.00 | | | | | | |
| N Fairfax Ave n of Santa Monica Blvd | 60.0 | point3 | 3 | 1,195.7 | 613.6 | 100.00 | | | | | Average | |
| | | point4 | 4 | 1,162.7 | 1,852.9 | 100.00 | | | | | Average | |
| | | point5 | 5 | 1,160.1 | 1,979.6 | 100.00 | | | | | | |
| Santa Monica Blvd w. of N. Fairfax | 55.0 | point6 | 6 | 2.1 | 561.0 | 100.00 | | | | | Average | |
| | | point7 | 7 | 291.4 | 563.0 | 100.00 | | | | | Average | |
| | | point8 | 8 | 737.0 | 573.4 | 100.00 | | | | | Average | |
| | | point9 | 9 | 1,197.4 | 586.5 | 100.00 | | | | | | |
| N Orange GroveAve s of St Mnca Blvd | 38.0 | point15 | 15 | 1,482.2 | 93.3 | 100.00 | | | | | Average | |
| | | point16 | 16 | 1,475.6 | 561.3 | 100.00 | | | | | | |
| N Orange GroveAve n of St Mnca Blvd | 38.0 | point17 | 17 | 1,550.0 | 600.7 | 100.00 | | | | | Average | |
| | | point18 | 18 | 1,539.1 | 1,842.9 | 100.00 | | | | | | |
| N Ogden Ave s of Sta Mnca Blvd | 38.0 | point19 | 19 | 1,801.5 | 89.0 | 100.00 | | | | | Average | |
| | | point20 | 20 | 1,797.1 | 554.8 | 100.00 | | | | | | |
| N Ogden Ave n of Sta Mnca Blvd | 34.0 | point21 | 21 | 1,921.8 | 589.8 | 100.00 | | | | | Average | |
| | | point22 | 22 | 1,919.6 | 1,814.4 | 100.00 | | | | | | |
| N Genessee Ave s of St Mnca Blvd | 38.0 | point23 | 23 | 2,118.6 | 89.0 | 100.00 | | | | | Average | |
| | | point24 | 24 | 2,123.0 | 548.2 | 100.00 | | | | | | |
| N Genessee Ave n of St Mnca Blvd | 34.0 | point25 | 25 | 2,249.8 | 581.0 | 100.00 | | | | | Average | |
| | | point26 | 26 | 2,247.6 | 1,838.5 | 100.00 | | | | | | |
| Santa Monica Blvd Fairfax to OrngeGrv | 55.0 | point29 | 29 | 1,197.4 | 586.5 | 100.00 | | | | | Average | |
| | | point10 | 10 | 1,559.3 | 577.7 | 100.00 | | | | | | |
| Santa Monica Blvd OrngeGrv to Ogdon | 55.0 | point30 | 30 | 1,559.3 | 577.7 | 100.00 | | | | | Average | |
| | | point11 | 11 | 1,918.6 | 567.3 | 100.00 | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Monica Blvd Ogdon to Genesee | 55.0 | point31 | 31 | 1,918.6 | 567.3 | 100.00 | | | | Average | |
| | | point12 | 12 | 2,250.1 | 565.6 | 100.00 | | | | | |
| Santa Monica Blvd e of N Genesee Ave | 55.0 | point32 | 32 | 2,250.1 | 565.6 | 100.00 | | | | Average | |
| | | point13 | 13 | 2,668.4 | 560.5 | 100.00 | | | | Average | |
| | | point14 | 14 | 3,190.6 | 553.6 | 100.00 | | | | | |

**Dudek** **11 October 2022**
**MG** **TNM 2.5**

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**PROJECT/CONTRACT:** **9127**
**RUN:** **SM Blvd/O.Grove We Ho Cultv 101122**

| **Roadway** | **Points** | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Name** | **Name** | **No.** | **Segment** | | | | | | | | | |
| | | | **Autos** | | **MTrucks** | | **HTrucks** | | **Buses** | | **Motorcycles** | |
| | | | **V** | **S** | **V** | **S** | **V** | **S** | **V** | **S** | **V** | **S** |
| | | | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph |
| N Fairfax Ave s of Santa Monica Blvd | point1 | 1 | 2519 | 35 | 52 | 35 | 26 | 35 | 0 | 0 | 0 | 0 |
| | point2 | 2 | | | | | | | | | | |
| N Fairfax Ave n of Santa Monica Blvd | point3 | 3 | 2409 | 25 | 50 | 25 | 25 | 25 | 0 | 0 | 0 | 0 |
| | point4 | 4 | 2409 | 25 | 50 | 25 | 25 | 25 | 0 | 0 | 0 | 0 |
| | point5 | 5 | | | | | | | | | | |
| Santa Monica Blvd w. of N. Fairfax | point6 | 6 | 3907 | 30 | 81 | 30 | 40 | 30 | 0 | 0 | 0 | 0 |
| | point7 | 7 | 3907 | 30 | 81 | 30 | 40 | 30 | 0 | 0 | 0 | 0 |
| | point8 | 8 | 3907 | 30 | 81 | 30 | 40 | 30 | 0 | 0 | 0 | 0 |
| | point9 | 9 | | | | | | | | | | |
| N Orange GroveAve s of St Mnca Blvd | point15 | 15 | 201 | 25 | 4 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point16 | 16 | | | | | | | | | | |
| N Orange GroveAve n of St Mnca Blvd | point17 | 17 | 130 | 25 | 3 | 25 | 1 | 25 | 0 | 0 | 0 | 0 |
| | point18 | 18 | | | | | | | | | | |
| N Ogden Ave s of Sta Mnca Blvd | point19 | 19 | 201 | 25 | 4 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point20 | 20 | | | | | | | | | | |
| N Ogden Ave n of Sta Mnca Blvd | point21 | 21 | 252 | 25 | 5 | 25 | 3 | 25 | 0 | 0 | 0 | 0 |
| | point22 | 22 | | | | | | | | | | |
| N Genessee Ave s of St Mnca Blvd | point23 | 23 | 183 | 25 | 4 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point24 | 24 | | | | | | | | | | |
| N Genessee Ave n of St Mnca Blvd | point25 | 25 | 210 | 25 | 4 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point26 | 26 | | | | | | | | | | |
| Santa Monica Blvd Fairfax to OrngeGrv | point29 | 29 | 3944 | 30 | 81 | 30 | 41 | 30 | 0 | 0 | 0 | 0 |
| | point10 | 10 | | | | | | | | | | |

**INPUT: TRAFFIC FOR LAeq1h Volumes** **9127**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Monica Blvd OrngeGrv to Ogdon | point30 | 30 | 3981 | 30 | 82 | 30 | 41 | 30 | 0 | 0 | 0 | 0 |
| | point11 | 11 | | | | | | | | | | |
| Santa Monica Blvd Ogdon to Genesee | point31 | 31 | 4012 | 30 | 83 | 30 | 41 | 30 | 0 | 0 | 0 | 0 |
| | point12 | 12 | | | | | | | | | | |
| Santa Monica Blvd e of N Genesee Ave | point32 | 32 | 3975 | 30 | 82 | 30 | 41 | 30 | 0 | 0 | 0 | 0 |
| | point13 | 13 | 3975 | 30 | 82 | 30 | 41 | 30 | 0 | 0 | 0 | 0 |
| | point14 | 14 | | | | | | | | | | |

Dudek
MG

11 October 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grove We Ho Cultv 101122

Receiver

| Name | No. | #DUs | Coordinates (ground) | | | Height above Ground | Input Sound Levels and Criteria | | | | Active in Calc. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | X | Y | Z | | Existing LAeq1h | Impact Criteria LAeq1h | Sub'l | NR Goal | |
| | | | ft | ft | ft | ft | dBA | dBA | dB | dB | |
| R1 / ST1 Proj Site on SMB | 18 | 1 | 1,753.6 | 613.0 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R2 /ST2 Resi n of Proj Site | 20 | 1 | 1,794.5 | 782.1 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R3 / ST3 Proj Site on N O.Grove Blvd | 21 | 1 | 1,572.0 | 796.3 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R4 / ST4 child car on N O.Grove Blvd | 22 | 1 | 1,579.0 | 923.0 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R5 / ST5 Resi N Ogden Dr n of SMB | 23 | 1 | 1,871.6 | 869.2 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R6 / ST6 Resi N Ogden Dr n of SMB | 24 | 1 | 1,944.6 | 820.6 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R7 Resi N Fairfax Ave n of SMB | 25 | 1 | 1,117.4 | 1,119.3 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R8 Res N Fairfax Ave s of SMB | 26 | 1 | 1,132.7 | 227.5 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R9 Resi N O.Grove Blvd s of SMB | 27 | 1 | 1,510.7 | 217.5 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R10 Resi N Ogden Dr s of SMB | 28 | 1 | 1,835.2 | 266.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R11 Resi N Genessee Ave n of SMB | 29 | 1 | 2,221.1 | 904.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R12 Resi N Genessee Ave s of SMB | 33 | 1 | 2,148.2 | 231.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |

Dudek 11 October 2022
MG TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grove We Ho Cultv 101122

| Barrier | | | | | | | | | Points | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name | Type | Height | | If Wall | If Berm | | | Add'tnl | Name | No. | Coordinates (bottom) | | | Height | Segment | | | | |
| | | Min | Max | $ per | $ per | Top | Run:Rise | $ per | | | X | Y | Z | at | Seg Ht | Perturbs | | On | Important |
| | | | | Unit | Unit | Width | | Unit | | | | | | Point | Incre- | #Up | #Dn | Struct? | Reflec- |
| | | | | Area | Vol. | | | Length | | | | | | | ment | | | | tions? |
| | | ft | ft | $/sq ft | $/cu yd | ft | ft:ft | $/ft | | | ft | ft | ft | ft | ft | | | | |
| Barrier1 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point1 | 1 | 1,579.2 | 860.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point2 | 2 | 1,680.4 | 860.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point3 | 3 | 1,680.4 | 873.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point4 | 4 | 1,714.2 | 873.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point5 | 5 | 1,714.2 | 898.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point6 | 6 | 1,655.6 | 898.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point7 | 7 | 1,655.6 | 900.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point8 | 8 | 1,599.2 | 900.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point9 | 9 | 1,599.2 | 877.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point10 | 10 | 1,579.2 | 877.3 | 100.00 | 20.00 | | | | | |
| Barrier2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point11 | 11 | 1,731.4 | 863.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point12 | 12 | 1,865.1 | 861.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point13 | 13 | 1,865.7 | 907.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point14 | 14 | 1,732.0 | 909.4 | 100.00 | 20.00 | | | | | |
| Barrier3 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point15 | 15 | 1,732.1 | 915.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point16 | 16 | 1,867.8 | 915.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point17 | 17 | 1,868.0 | 960.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point18 | 18 | 1,732.3 | 960.7 | 100.00 | 20.00 | | | | | |
| Barrier4 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point19 | 19 | 1,772.7 | 610.4 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point20 | 20 | 1,878.8 | 609.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point21 | 21 | 1,881.8 | 760.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point22 | 22 | 1,775.7 | 760.9 | 100.00 | 15.00 | | | | | |
| Barrier5 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point23 | 23 | 1,827.2 | 773.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point24 | 24 | 1,865.8 | 773.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point25 | 25 | 1,865.8 | 807.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point26 | 26 | 1,827.2 | 807.1 | 100.00 | 20.00 | | | | | |
| Barrier6 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point27 | 27 | 1,732.1 | 966.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point28 | 28 | 1,866.5 | 966.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point29 | 29 | 1,866.5 | 1,060.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point30 | 30 | 1,732.1 | 1,060.6 | 100.00 | 20.00 | | | | | |
| Barrier7 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point31 | 31 | 1,940.6 | 765.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point32 | 32 | 1,977.8 | 765.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point33 | 33 | 1,978.2 | 807.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point34 | 34 | 1,941.0 | 808.1 | 100.00 | 20.00 | | | | | |
| Barrier8 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point36 | 36 | 1,951.3 | 815.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point37 | 37 | 2,061.9 | 813.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point38 | 38 | 2,062.6 | 844.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point39 | 39 | 1,951.7 | 845.8 | 100.00 | 20.00 | | | | | |
| Barrier9 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point40 | 40 | 1,953.7 | 903.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point41 | 41 | 1,953.4 | 863.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point42 | 42 | 2,083.6 | 862.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point43 | 43 | 2,083.9 | 902.0 | 100.00 | 20.00 | | | | | |
| Barrier10 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point45 | 45 | 1,954.1 | 917.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point46 | 46 | 2,043.3 | 916.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point47 | 47 | 2,043.8 | 957.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point48 | 48 | 1,973.4 | 958.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point49 | 49 | 1,973.3 | 949.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point50 | 50 | 1,954.5 | 949.5 | 100.00 | 20.00 | | | | | |
| Barrier11 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point52 | 52 | 1,864.9 | 814.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point53 | 53 | 1,865.4 | 852.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point54 | 54 | 1,828.9 | 853.2 | 100.00 | 20.00 | | | | | |
| Barrier12 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point56 | 56 | 1,736.8 | 816.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point57 | 57 | 1,819.5 | 815.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point58 | 58 | 1,820.3 | 848.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point59 | 59 | 1,736.6 | 848.0 | 100.00 | 20.00 | | | | | |
| Barrier13 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point60 | 60 | 1,622.5 | 611.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point61 | 61 | 1,676.0 | 609.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point62 | 62 | 1,673.9 | 692.0 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point63 | 63 | 1,619.2 | 692.0 | 100.00 | 15.00 | | | | | |
| Barrier14 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point64 | 64 | 1,676.6 | 611.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point65 | 65 | 1,724.7 | 610.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point66 | 66 | 1,723.1 | 760.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point67 | 67 | 1,622.5 | 759.8 | 100.00 | 15.00 | 0.00 | 4 | 0 | | |
| | | | | | | | | | point68 | 68 | 1,623.0 | 709.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point69 | 69 | 1,673.3 | 709.5 | 100.00 | 15.00 | | | | | |
| Barrier15 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point70 | 70 | 1,621.4 | 731.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point71 | 71 | 1,620.8 | 761.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point72 | 72 | 1,569.4 | 761.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point73 | 73 | 1,571.1 | 731.4 | 100.00 | 20.00 | | | | | |
| Barrier16 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point74 | 74 | 1,946.7 | 609.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point75 | 75 | 2,093.8 | 607.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point76 | 76 | 2,094.7 | 675.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point77 | 77 | 2,047.8 | 676.6 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point78 | 78 | 2,047.3 | 643.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point79 | 79 | 1,948.6 | 643.3 | 100.00 | 15.00 | | | | | |
| Barrier17 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point81 | 81 | 1,468.0 | 629.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point82 | 82 | 1,508.7 | 628.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point83 | 83 | 1,507.5 | 680.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point84 | 84 | 1,465.8 | 681.0 | 100.00 | 15.00 | | | | | |
| Barrier18 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point85 | 85 | 1,448.9 | 727.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point86 | 86 | 1,509.2 | 727.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point87 | 87 | 1,510.5 | 830.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point88 | 88 | 1,471.4 | 830.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point89 | 89 | 1,471.4 | 815.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point90 | 90 | 1,447.6 | 815.5 | 100.00 | 20.00 | | | | | |
| Barrier19 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point91 | 91 | 1,350.3 | 841.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point92 | 92 | 1,507.4 | 840.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point93 | 93 | 1,508.2 | 981.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point94 | 94 | 1,406.4 | 981.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point95 | 95 | 1,406.5 | 1,011.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point96 | 96 | 1,351.3 | 1,011.8 | 100.00 | 20.00 | | | | | |
| Barrier20 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point97 | 97 | 1,572.9 | 1,017.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point98 | 98 | 1,709.3 | 1,018.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point99 | 99 | 1,708.8 | 1,113.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point100 | 100 | 1,572.4 | 1,112.3 | 100.00 | 20.00 | | | | | |
| Barrier21 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point101 | 101 | 1,500.2 | 532.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point102 | 102 | 1,773.6 | 532.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point103 | 103 | 1,773.6 | 408.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point104 | 104 | 1,664.8 | 408.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point105 | 105 | 1,664.8 | 459.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point106 | 106 | 1,500.2 | 459.9 | 100.00 | 15.00 | | | | | |
| Barrier22 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point108 | 108 | 1,930.5 | 531.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point109 | 109 | 2,094.5 | 530.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point110 | 110 | 2,093.9 | 462.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point111 | 111 | 1,960.8 | 463.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point112 | 112 | 1,960.4 | 406.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point113 | 113 | 1,929.5 | 406.5 | 100.00 | 15.00 | | | | | |
| Barrier23 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point115 | 115 | 2,071.9 | 389.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point116 | 116 | 2,075.8 | 145.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point117 | 117 | 1,852.2 | 143.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point118 | 118 | 1,848.4 | 385.6 | 100.00 | 20.00 | | | | | |
| Barrier24 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point119 | 119 | 1,643.6 | 389.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point120 | 120 | 1,759.3 | 388.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point121 | 121 | 1,760.7 | 97.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point122 | 122 | 1,649.1 | 98.6 | 100.00 | 20.00 | | | | | |
| Barrier25 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point123 | 123 | 1,519.6 | 106.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point124 | 124 | 1,628.3 | 105.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point125 | 125 | 1,630.1 | 295.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point126 | 126 | 1,603.6 | 295.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point127 | 127 | 1,604.1 | 349.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point128 | 128 | 1,579.2 | 349.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point129 | 129 | 1,579.5 | 382.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point130 | 130 | 1,544.4 | 382.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point131 | 131 | 1,544.0 | 348.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point132 | 132 | 1,521.9 | 348.2 | 100.00 | 20.00 | | | | | |
| Barrier26 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point133 | 133 | 1,953.8 | 970.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point134 | 134 | 2,087.4 | 969.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point135 | 135 | 2,092.4 | 1,352.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point136 | 136 | 1,958.8 | 1,354.4 | 100.00 | 20.00 | | | | | |
| Barrier27 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point137 | 137 | 2,125.0 | 740.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point138 | 138 | 2,215.2 | 740.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point139 | 139 | 2,215.2 | 920.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point140 | 140 | 2,125.0 | 920.9 | 100.00 | 20.00 | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barrier28 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point141 | 141 | 2,125.0 | 933.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point142 | 142 | 2,206.6 | 933.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point143 | 143 | 2,206.6 | 1,408.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point144 | 144 | 2,125.0 | 1,408.3 | 100.00 | 20.00 | | | | | |
| Barrier29 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point145 | 145 | 1,449.8 | 475.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point146 | 146 | 1,449.3 | 542.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point147 | 147 | 1,251.3 | 544.6 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point148 | 148 | 1,250.7 | 475.7 | 100.00 | 15.00 | | | | | |
| Barrier30 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point149 | 149 | 1,135.4 | 413.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point150 | 150 | 1,134.1 | 528.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point151 | 151 | 836.7 | 524.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point152 | 152 | 837.9 | 409.9 | 100.00 | 15.00 | | | | | |
| Barrier31 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point153 | 153 | 1,141.1 | 624.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point154 | 154 | 1,141.1 | 766.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point155 | 155 | 876.5 | 766.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point156 | 156 | 876.5 | 672.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point157 | 157 | 977.1 | 672.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point158 | 158 | 977.1 | 624.3 | 100.00 | 15.00 | | | | | |
| Barrier32 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point159 | 159 | 1,136.9 | 788.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point160 | 160 | 1,138.3 | 922.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point161 | 161 | 1,030.9 | 923.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point162 | 162 | 1,029.5 | 789.4 | 100.00 | 20.00 | | | | | |
| Barrier33 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point163 | 163 | 1,223.8 | 861.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point164 | 164 | 1,223.8 | 917.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point165 | 165 | 1,349.2 | 917.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point166 | 166 | 1,349.2 | 861.3 | 100.00 | 20.00 | | | | | |
| Barrier34 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point167 | 167 | 1,324.4 | 989.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point168 | 168 | 1,327.2 | 1,138.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point169 | 169 | 1,371.2 | 1,137.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point170 | 170 | 1,372.4 | 1,200.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point171 | 171 | 1,267.9 | 1,202.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point172 | 172 | 1,264.8 | 1,032.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point173 | 173 | 1,237.6 | 1,032.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point174 | 174 | 1,236.9 | 991.1 | 100.00 | 20.00 | | | | | |
| Barrier35 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point175 | 175 | 1,212.7 | 1,229.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point176 | 176 | 1,324.4 | 1,227.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point177 | 177 | 1,324.4 | 1,267.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point178 | 178 | 1,208.6 | 1,269.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point179 | 179 | 1,210.0 | 1,219.6 | 100.00 | 20.00 | | | | | |
| Barrier36 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point180 | 180 | 1,101.1 | 979.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point181 | 181 | 1,098.4 | 1,081.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point182 | 182 | 929.0 | 1,077.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point183 | 183 | 931.7 | 975.3 | 100.00 | 20.00 | | | | | |
| Barrier37 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point185 | 185 | 2,276.6 | 610.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point186 | 186 | 2,276.6 | 697.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point187 | 187 | 2,642.7 | 697.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point188 | 188 | 2,642.7 | 610.3 | 100.00 | 15.00 | | | | | |
| Barrier38 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point189 | 189 | 1,089.5 | 389.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point190 | 190 | 1,087.3 | 242.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point191 | 191 | 1,128.8 | 242.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point192 | 192 | 1,131.0 | 388.8 | 100.00 | 20.00 | | | | | |
| Barrier39 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point194 | 194 | 1,352.7 | 394.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point195 | 195 | 1,446.4 | 392.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point196 | 196 | 1,444.7 | 305.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point197 | 197 | 1,350.9 | 307.6 | 100.00 | 20.00 | | | | | |
| Barrier40 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point198 | 198 | 1,260.6 | 285.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point199 | 199 | 1,429.1 | 283.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point200 | 200 | 1,432.4 | 92.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point201 | 201 | 1,258.7 | 94.1 | 100.00 | 20.00 | | | | | |
| Barrier41 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point202 | 202 | 2,145.4 | 522.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point203 | 203 | 2,147.6 | 398.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point204 | 204 | 2,414.4 | 398.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point205 | 205 | 2,414.4 | 523.2 | 100.00 | 15.00 | | | | | |
| Barrier42 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point206 | 206 | 2,160.8 | 277.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point207 | 207 | 2,165.1 | 46.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point208 | 208 | 2,285.4 | 43.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point209 | 209 | 2,281.1 | 275.7 | 100.00 | 20.00 | | | | | |

Dudek
MG
11 October 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grove We Ho Cultv 101122
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

| Receiver Name | No. | #DUs | Existing LAeq1h | No Barrier LAeq1h Calculated | Crit'n | Increase over existing Calculated | Increase over existing Crit'n Sub'l Inc | Type Impact | With Barrier Calculated LAeq1h | Noise Reduction Calculated | Noise Reduction Goal | Calculated minus Goal |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | dBA | dBA | dBA | dB | dB | | dBA | dB | dB | dB |
| R1 / ST1 Proj Site on SMB | 18 | 1 | 0.0 | 69.8 | 66 | 69.8 | 10 | Snd Lvl | 69.8 | 0.0 | 8 | -8.0 |
| R2 /ST2 Resi n of Proj Site | 20 | 1 | 0.0 | 45.0 | 66 | 45.0 | 10 | ---- | 45.0 | 0.0 | 8 | -8.0 |
| R3 / ST3 Proj Site on N O.Grove Blvd | 21 | 1 | 0.0 | 57.6 | 66 | 57.6 | 10 | ---- | 57.6 | 0.0 | 8 | -8.0 |
| R4 / ST4 child car on N O.Grove Blvd | 22 | 1 | 0.0 | 55.2 | 66 | 55.2 | 10 | ---- | 55.2 | 0.0 | 8 | -8.0 |
| R5 / ST5 Resi N Ogden Dr n of SMB | 23 | 1 | 0.0 | 55.9 | 66 | 55.9 | 10 | ---- | 55.9 | 0.0 | 8 | -8.0 |
| R6 / ST6 Resi N Ogden Dr n of SMB | 24 | 1 | 0.0 | 59.0 | 66 | 59.0 | 10 | ---- | 59.0 | 0.0 | 8 | -8.0 |
| R7 Resi N Fairfax Ave n of SMB | 25 | 1 | 0.0 | 63.8 | 66 | 63.8 | 10 | ---- | 63.8 | 0.0 | 8 | -8.0 |
| R8 Res N Fairfax Ave s of SMB | 26 | 1 | 0.0 | 66.9 | 66 | 66.9 | 10 | Snd Lvl | 66.9 | 0.0 | 8 | -8.0 |
| R9 Resi N O.Grove Blvd s of SMB | 27 | 1 | 0.0 | 56.9 | 66 | 56.9 | 10 | ---- | 56.9 | 0.0 | 8 | -8.0 |
| R10 Resi N Ogden Dr s of SMB | 28 | 1 | 0.0 | 56.6 | 66 | 56.6 | 10 | ---- | 56.6 | 0.0 | 8 | -8.0 |
| R11 Resi N Genessee Ave n of SMB | 29 | 1 | 0.0 | 57.7 | 66 | 57.7 | 10 | ---- | 57.7 | 0.0 | 8 | -8.0 |
| R12 Resi N Genessee Ave s of SMB | 33 | 1 | 0.0 | 57.1 | 66 | 57.1 | 10 | ---- | 57.1 | 0.0 | 8 | -8.0 |

| Dwelling Units | # DUs | Noise Reduction Min | Avg | Max |
|---|---|---|---|---|
| | | dB | dB | dB |
| All Selected | 12 | 0.0 | 0.0 | 0.0 |
| All Impacted | 2 | 0.0 | 0.0 | 0.0 |
| All that meet NR Goal | 0 | 0.0 | 0.0 | 0.0 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Dudek** | | | | | **11 October 2022** | | | | | | | |
| **MG** | | | | | **TNM 2.5** | | | | | | | |
| **INPUT: ROADWAYS** | | | | | | | | **Average pavement type shall be used unless** | | | | |
| **PROJECT/CONTRACT:** | **9127** | | | | | | | **a State highway agency substantiates the use** | | | | |
| **RUN:** | **SM Blvd/O.Grve WeHo Cultv w Pr 101122** | | | | | | | **of a different type with the approval of FHWA** | | | | |
| **Roadway** | | **Points** | | | | | | | | | | |
| **Name** | **Width** | **Name** | **No.** | **Coordinates (pavement)** | | | | **Flow Control** | | | **Segment** | |
| | | | | **X** | **Y** | **Z** | | **Control Device** | **Speed Constraint** | **Percent Vehicles Affected** | **Pvmt Type** | **On Struct?** |
| | ft | | | ft | ft | ft | | | mph | % | | |
| N Fairfax Ave s of Santa Monica Blvd | 60.0 | point1 | 1 | 1,196.5 | 55.6 | 100.00 | | | | | Average | |
| | | point2 | 2 | 1,196.5 | 547.7 | 100.00 | | | | | | |
| N Fairfax Ave n of Santa Monica Blvd | 60.0 | point3 | 3 | 1,195.7 | 613.6 | 100.00 | | | | | Average | |
| | | point4 | 4 | 1,162.7 | 1,852.9 | 100.00 | | | | | Average | |
| | | point5 | 5 | 1,160.1 | 1,979.6 | 100.00 | | | | | | |
| Santa Monica Blvd w. of N. Fairfax | 55.0 | point6 | 6 | 2.1 | 561.0 | 100.00 | | | | | Average | |
| | | point7 | 7 | 291.4 | 563.0 | 100.00 | | | | | Average | |
| | | point8 | 8 | 737.0 | 573.4 | 100.00 | | | | | Average | |
| | | point9 | 9 | 1,197.4 | 586.5 | 100.00 | | | | | | |
| N Orange GroveAve s of St Mnca Blvd | 38.0 | point15 | 15 | 1,482.2 | 93.3 | 100.00 | | | | | Average | |
| | | point16 | 16 | 1,475.6 | 561.3 | 100.00 | | | | | | |
| N Orange GroveAve n of St Mnca Blvd | 38.0 | point17 | 17 | 1,550.0 | 600.7 | 100.00 | | | | | Average | |
| | | point18 | 18 | 1,539.1 | 1,842.9 | 100.00 | | | | | | |
| N Ogden Ave s of Sta Mnca Blvd | 38.0 | point19 | 19 | 1,801.5 | 89.0 | 100.00 | | | | | Average | |
| | | point20 | 20 | 1,797.1 | 554.8 | 100.00 | | | | | | |
| N Ogden Ave n of Sta Mnca Blvd | 34.0 | point21 | 21 | 1,921.8 | 589.8 | 100.00 | | | | | Average | |
| | | point22 | 22 | 1,919.6 | 1,814.4 | 100.00 | | | | | | |
| N Genessee Ave s of St Mnca Blvd | 38.0 | point23 | 23 | 2,118.6 | 89.0 | 100.00 | | | | | Average | |
| | | point24 | 24 | 2,123.0 | 548.2 | 100.00 | | | | | | |
| N Genessee Ave n of St Mnca Blvd | 34.0 | point25 | 25 | 2,249.8 | 581.0 | 100.00 | | | | | Average | |
| | | point26 | 26 | 2,247.6 | 1,838.5 | 100.00 | | | | | | |
| Santa Monica Blvd Fairfax to OrngeGrv | 55.0 | point29 | 29 | 1,197.4 | 586.5 | 100.00 | | | | | Average | |
| | | point10 | 10 | 1,559.3 | 577.7 | 100.00 | | | | | | |
| Santa Monica Blvd OrngeGrv to Ogdon | 55.0 | point30 | 30 | 1,559.3 | 577.7 | 100.00 | | | | | Average | |
| | | point11 | 11 | 1,918.6 | 567.3 | 100.00 | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Monica Blvd Ogdon to Genesee | 55.0 | point31 | 31 | 1,918.6 | 567.3 | 100.00 | | | | Average | |
| | | point12 | 12 | 2,250.1 | 565.6 | 100.00 | | | | | |
| Santa Monica Blvd e of N Genesee Ave | 55.0 | point32 | 32 | 2,250.1 | 565.6 | 100.00 | | | | Average | |
| | | point13 | 13 | 2,668.4 | 560.5 | 100.00 | | | | Average | |
| | | point14 | 14 | 3,190.6 | 553.6 | 100.00 | | | | | |

**Dudek** **11 October 2022**
**MG** **TNM 2.5**

**INPUT: TRAFFIC FOR LAeq1h Volumes**
**PROJECT/CONTRACT:** **9127**
**RUN:** **SM Blvd/O.Grve WeHo Cultv w Pr 101122**

| Roadway | Points | | Segment | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name | Name | No. | Autos | | MTrucks | | HTrucks | | Buses | | Motorcycles | |
| | | | V | S | V | S | V | S | V | S | V | S |
| | | | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph | veh/hr | mph |
| N Fairfax Ave s of Santa Monica Blvd | point1 | 1 | 3110 | 35 | 64 | 35 | 32 | 35 | 0 | 0 | 0 | 0 |
| | point2 | 2 | | | | | | | | | | |
| N Fairfax Ave n of Santa Monica Blvd | point3 | 3 | 2415 | 25 | 50 | 25 | 25 | 25 | 0 | 0 | 0 | 0 |
| | point4 | 4 | 2415 | 25 | 50 | 25 | 25 | 25 | 0 | 0 | 0 | 0 |
| | point5 | 5 | | | | | | | | | | |
| Santa Monica Blvd w. of N. Fairfax | point6 | 6 | 3920 | 30 | 81 | 30 | 40 | 30 | 0 | 0 | 0 | 0 |
| | point7 | 7 | 3920 | 30 | 81 | 30 | 40 | 30 | 0 | 0 | 0 | 0 |
| | point8 | 8 | 3920 | 30 | 81 | 30 | 40 | 30 | 0 | 0 | 0 | 0 |
| | point9 | 9 | | | | | | | | | | |
| N Orange GroveAve s of St Mnca Blvd | point15 | 15 | 201 | 25 | 4 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point16 | 16 | | | | | | | | | | |
| N Orange GroveAve n of St Mnca Blvd | point17 | 17 | 146 | 25 | 3 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point18 | 18 | | | | | | | | | | |
| N Ogden Ave s of Sta Mnca Blvd | point19 | 19 | 201 | 25 | 4 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point20 | 20 | | | | | | | | | | |
| N Ogden Ave n of Sta Mnca Blvd | point21 | 21 | 261 | 25 | 5 | 25 | 3 | 25 | 0 | 0 | 0 | 0 |
| | point22 | 22 | | | | | | | | | | |
| N Genessee Ave s of St Mnca Blvd | point23 | 23 | 187 | 25 | 4 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point24 | 24 | | | | | | | | | | |
| N Genessee Ave n of St Mnca Blvd | point25 | 25 | 210 | 25 | 4 | 25 | 2 | 25 | 0 | 0 | 0 | 0 |
| | point26 | 26 | | | | | | | | | | |
| Santa Monica Blvd Fairfax to OrngeGrv | point29 | 29 | 3960 | 30 | 82 | 30 | 41 | 30 | 0 | 0 | 0 | 0 |
| | point10 | 10 | | | | | | | | | | |

**INPUT: TRAFFIC FOR LAeq1h Volumes** **9127**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Monica Blvd OrngeGrv to Ogdon | point30 | 30 | 3995 | 30 | 82 | 30 | 41 | 30 | 0 | 0 | 0 | 0 |
| | point11 | 11 | | | | | | | | | | |
| Santa Monica Blvd Ogdon to Genesee | point31 | 31 | 4029 | 30 | 83 | 30 | 42 | 30 | 0 | 0 | 0 | 0 |
| | point12 | 12 | | | | | | | | | | |
| Santa Monica Blvd e of N Genesee Ave | point32 | 32 | 3989 | 30 | 82 | 30 | 41 | 30 | 0 | 0 | 0 | 0 |
| | point13 | 13 | 3989 | 30 | 82 | 30 | 41 | 30 | 0 | 0 | 0 | 0 |
| | point14 | 14 | | | | | | | | | | |

Dudek
MG

11 October 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grve WeHo Cultv w Pr 101122

| Receiver Name | No. | #DUs | Coordinates (ground) X | Y | Z | Height above Ground | Input Sound Levels and Criteria: Existing LAeq1h | Impact Criteria LAeq1h | Impact Criteria Sub'l | NR Goal | Active in Calc. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | ft | ft | ft | ft | dBA | dBA | dB | dB | |
| R1 / ST1 Proj Site on SMB | 18 | 1 | 1,753.6 | 613.0 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R2 /ST2 Resi n of Proj Site | 20 | 1 | 1,794.5 | 782.1 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R3 / ST3 Proj Site on N O.Grove Blvd | 21 | 1 | 1,572.0 | 796.3 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R4 / ST4 child car on N O.Grove Blvd | 22 | 1 | 1,579.0 | 923.0 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R5 / ST5 Resi N Ogden Dr n of SMB | 23 | 1 | 1,871.6 | 869.2 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R6 / ST6 Resi N Ogden Dr n of SMB | 24 | 1 | 1,944.6 | 820.6 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R7 Resi N Fairfax Ave n of SMB | 25 | 1 | 1,117.4 | 1,119.3 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R8 Res N Fairfax Ave s of SMB | 26 | 1 | 1,132.7 | 227.5 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R9 Resi N O.Grove Blvd s of SMB | 27 | 1 | 1,510.7 | 217.5 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R10 Resi N Ogden Dr s of SMB | 28 | 1 | 1,835.2 | 266.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R11 Resi N Genessee Ave n of SMB | 29 | 1 | 2,221.1 | 904.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |
| R12 Resi N Genessee Ave s of SMB | 33 | 1 | 2,148.2 | 231.9 | 100.00 | 5.00 | 0.00 | 66 | 10.0 | 8.0 | Y |

Dudek 11 October 2022
MG TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grve WeHo Cultv w Pr 101122

| Barrier | | | | | | | | | Points | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Name | Type | Height | | If Wall | If Berm | | | Add'tnl | Name | No. | Coordinates (bottom) | | | Height | Segment | | | | |
| | | Min | Max | $ per | $ per | Top | Run:Rise | $ per | | | X | Y | Z | at | Seg Ht | Perturbs | | On | Important |
| | | | | Unit | Unit | Width | | Unit | | | | | | Point | Incre- | #Up | #Dn | Struct? | Reflec- |
| | | | | Area | Vol. | | | Length | | | | | | | ment | | | | tions? |
| | | ft | ft | $/sq ft | $/cu yd | ft | ft:ft | $/ft | | | ft | ft | ft | ft | ft | | | | |
| Barrier1 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point1 | 1 | 1,579.2 | 860.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point2 | 2 | 1,680.4 | 860.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point3 | 3 | 1,680.4 | 873.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point4 | 4 | 1,714.2 | 873.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point5 | 5 | 1,714.2 | 898.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point6 | 6 | 1,655.6 | 898.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point7 | 7 | 1,655.6 | 900.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point8 | 8 | 1,599.2 | 900.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point9 | 9 | 1,599.2 | 877.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point10 | 10 | 1,579.2 | 877.3 | 100.00 | 20.00 | | | | | |
| Barrier2 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point11 | 11 | 1,731.4 | 863.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point12 | 12 | 1,865.1 | 861.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point13 | 13 | 1,865.7 | 907.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point14 | 14 | 1,732.0 | 909.4 | 100.00 | 20.00 | | | | | |
| Barrier3 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point15 | 15 | 1,732.1 | 915.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point16 | 16 | 1,867.8 | 915.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point17 | 17 | 1,868.0 | 960.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point18 | 18 | 1,732.3 | 960.7 | 100.00 | 20.00 | | | | | |
| Barrier4 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point19 | 19 | 1,772.7 | 610.4 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point20 | 20 | 1,878.8 | 609.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point21 | 21 | 1,881.8 | 760.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point22 | 22 | 1,775.7 | 760.9 | 100.00 | 15.00 | | | | | |
| Barrier5 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point23 | 23 | 1,827.2 | 773.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point24 | 24 | 1,865.8 | 773.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point25 | 25 | 1,865.8 | 807.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point26 | 26 | 1,827.2 | 807.1 | 100.00 | 20.00 | | | | | |
| Barrier6 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point27 | 27 | 1,732.1 | 966.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point28 | 28 | 1,866.5 | 966.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point29 | 29 | 1,866.5 | 1,060.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point30 | 30 | 1,732.1 | 1,060.6 | 100.00 | 20.00 | | | | | |
| Barrier7 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point31 | 31 | 1,940.6 | 765.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point32 | 32 | 1,977.8 | 765.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point33 | 33 | 1,978.2 | 807.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point34 | 34 | 1,941.0 | 808.1 | 100.00 | 20.00 | | | | | |
| Barrier8 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point36 | 36 | 1,951.3 | 815.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point37 | 37 | 2,061.9 | 813.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point38 | 38 | 2,062.6 | 844.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point39 | 39 | 1,951.7 | 845.8 | 100.00 | 20.00 | | | | | |
| Barrier9 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point40 | 40 | 1,953.7 | 903.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point41 | 41 | 1,953.4 | 863.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point42 | 42 | 2,083.6 | 862.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point43 | 43 | 2,083.9 | 902.0 | 100.00 | 20.00 | | | | | |
| Barrier10 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point45 | 45 | 1,954.1 | 917.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point46 | 46 | 2,043.3 | 916.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point47 | 47 | 2,043.8 | 957.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point48 | 48 | 1,973.4 | 958.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point49 | 49 | 1,973.3 | 949.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point50 | 50 | 1,954.5 | 949.5 | 100.00 | 20.00 | | | | | |
| Barrier11 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point52 | 52 | 1,864.9 | 814.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point53 | 53 | 1,865.4 | 852.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point54 | 54 | 1,828.9 | 853.2 | 100.00 | 20.00 | | | | | |
| Barrier12 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point56 | 56 | 1,736.8 | 816.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point57 | 57 | 1,819.5 | 815.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point58 | 58 | 1,820.3 | 848.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point59 | 59 | 1,736.6 | 848.0 | 100.00 | 20.00 | | | | | |
| Barrier13 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point60 | 60 | 1,622.5 | 611.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point61 | 61 | 1,676.0 | 609.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point62 | 62 | 1,673.9 | 692.0 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point63 | 63 | 1,619.2 | 692.0 | 100.00 | 15.00 | | | | | |
| Barrier14 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point64 | 64 | 1,676.6 | 611.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point65 | 65 | 1,724.7 | 610.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point66 | 66 | 1,723.1 | 760.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point67 | 67 | 1,622.5 | 759.8 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point68 | 68 | 1,623.0 | 709.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point69 | 69 | 1,673.3 | 709.5 | 100.00 | 15.00 | | | | | |
| Barrier15 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point70 | 70 | 1,621.4 | 731.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point71 | 71 | 1,620.8 | 761.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point72 | 72 | 1,569.4 | 761.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point73 | 73 | 1,571.1 | 731.4 | 100.00 | 20.00 | | | | | |
| Barrier16 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point74 | 74 | 1,946.7 | 609.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point75 | 75 | 2,093.8 | 607.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point76 | 76 | 2,094.7 | 675.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point77 | 77 | 2,047.8 | 676.6 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point78 | 78 | 2,047.3 | 643.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point79 | 79 | 1,948.6 | 643.3 | 100.00 | 15.00 | | | | | |
| Barrier17 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point81 | 81 | 1,468.0 | 629.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point82 | 82 | 1,508.7 | 628.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point83 | 83 | 1,507.5 | 680.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point84 | 84 | 1,465.8 | 681.0 | 100.00 | 15.00 | | | | | |
| Barrier18 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point85 | 85 | 1,448.9 | 727.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point86 | 86 | 1,509.2 | 727.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point87 | 87 | 1,510.5 | 830.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point88 | 88 | 1,471.4 | 830.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point89 | 89 | 1,471.4 | 815.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point90 | 90 | 1,447.6 | 815.5 | 100.00 | 20.00 | | | | | |
| Barrier19 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point91 | 91 | 1,350.3 | 841.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point92 | 92 | 1,507.4 | 840.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point93 | 93 | 1,508.2 | 981.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point94 | 94 | 1,406.4 | 981.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point95 | 95 | 1,406.5 | 1,011.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point96 | 96 | 1,351.3 | 1,011.8 | 100.00 | 20.00 | | | | | |
| Barrier20 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point97 | 97 | 1,572.9 | 1,017.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point98 | 98 | 1,709.3 | 1,018.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point99 | 99 | 1,708.8 | 1,113.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point100 | 100 | 1,572.4 | 1,112.3 | 100.00 | 20.00 | | | | | |
| Barrier21 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point101 | 101 | 1,500.2 | 532.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point102 | 102 | 1,773.6 | 532.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point103 | 103 | 1,773.6 | 408.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point104 | 104 | 1,664.8 | 408.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point105 | 105 | 1,664.8 | 459.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point106 | 106 | 1,500.2 | 459.9 | 100.00 | 15.00 | | | | | |
| Barrier22 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point108 | 108 | 1,930.5 | 531.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point109 | 109 | 2,094.5 | 530.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point110 | 110 | 2,093.9 | 462.7 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point111 | 111 | 1,960.8 | 463.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point112 | 112 | 1,960.4 | 406.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point113 | 113 | 1,929.5 | 406.5 | 100.00 | 15.00 | | | | | |
| Barrier23 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point115 | 115 | 2,071.9 | 389.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point116 | 116 | 2,075.8 | 145.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point117 | 117 | 1,852.2 | 143.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point118 | 118 | 1,848.4 | 385.6 | 100.00 | 20.00 | | | | | |
| Barrier24 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point119 | 119 | 1,643.6 | 389.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point120 | 120 | 1,759.3 | 388.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point121 | 121 | 1,760.7 | 97.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point122 | 122 | 1,649.1 | 98.6 | 100.00 | 20.00 | | | | | |
| Barrier25 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point123 | 123 | 1,519.6 | 106.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point124 | 124 | 1,628.3 | 105.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point125 | 125 | 1,630.1 | 295.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point126 | 126 | 1,603.6 | 295.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point127 | 127 | 1,604.1 | 349.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point128 | 128 | 1,579.2 | 349.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point129 | 129 | 1,579.5 | 382.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point130 | 130 | 1,544.4 | 382.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point131 | 131 | 1,544.0 | 348.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point132 | 132 | 1,521.9 | 348.2 | 100.00 | 20.00 | | | | | |
| Barrier26 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point133 | 133 | 1,953.8 | 970.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point134 | 134 | 2,087.4 | 969.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point135 | 135 | 2,092.4 | 1,352.6 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point136 | 136 | 1,958.8 | 1,354.4 | 100.00 | 20.00 | | | | | |
| Barrier27 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point137 | 137 | 2,125.0 | 740.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point138 | 138 | 2,215.2 | 740.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point139 | 139 | 2,215.2 | 920.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point140 | 140 | 2,125.0 | 920.9 | 100.00 | 20.00 | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barrier28 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point141 | 141 | 2,125.0 | 933.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point142 | 142 | 2,206.6 | 933.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point143 | 143 | 2,206.6 | 1,408.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point144 | 144 | 2,125.0 | 1,408.3 | 100.00 | 20.00 | | | | | |
| Barrier29 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point145 | 145 | 1,449.8 | 475.1 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point146 | 146 | 1,449.3 | 542.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point147 | 147 | 1,251.3 | 544.6 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point148 | 148 | 1,250.7 | 475.7 | 100.00 | 15.00 | | | | | |
| Barrier30 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point149 | 149 | 1,135.4 | 413.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point150 | 150 | 1,134.1 | 528.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point151 | 151 | 836.7 | 524.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point152 | 152 | 837.9 | 409.9 | 100.00 | 15.00 | | | | | |
| Barrier31 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point153 | 153 | 1,141.1 | 624.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point154 | 154 | 1,141.1 | 766.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point155 | 155 | 876.5 | 766.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point156 | 156 | 876.5 | 672.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point157 | 157 | 977.1 | 672.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point158 | 158 | 977.1 | 624.3 | 100.00 | 15.00 | | | | | |
| Barrier32 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point159 | 159 | 1,136.9 | 788.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point160 | 160 | 1,138.3 | 922.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point161 | 161 | 1,030.9 | 923.1 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point162 | 162 | 1,029.5 | 789.4 | 100.00 | 20.00 | | | | | |
| Barrier33 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point163 | 163 | 1,223.8 | 861.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point164 | 164 | 1,223.8 | 917.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point165 | 165 | 1,349.2 | 917.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point166 | 166 | 1,349.2 | 861.3 | 100.00 | 20.00 | | | | | |
| Barrier34 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point167 | 167 | 1,324.4 | 989.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point168 | 168 | 1,327.2 | 1,138.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point169 | 169 | 1,371.2 | 1,137.5 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point170 | 170 | 1,372.4 | 1,200.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point171 | 171 | 1,267.9 | 1,202.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point172 | 172 | 1,264.8 | 1,032.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point173 | 173 | 1,237.6 | 1,032.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point174 | 174 | 1,236.9 | 991.1 | 100.00 | 20.00 | | | | | |
| Barrier35 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point175 | 175 | 1,212.7 | 1,229.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point176 | 176 | 1,324.4 | 1,227.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point177 | 177 | 1,324.4 | 1,267.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point178 | 178 | 1,208.6 | 1,269.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point179 | 179 | 1,210.0 | 1,219.6 | 100.00 | 20.00 | | | | | |
| Barrier36 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point180 | 180 | 1,101.1 | 979.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point181 | 181 | 1,098.4 | 1,081.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point182 | 182 | 929.0 | 1,077.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point183 | 183 | 931.7 | 975.3 | 100.00 | 20.00 | | | | | |
| Barrier37 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point185 | 185 | 2,276.6 | 610.3 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point186 | 186 | 2,276.6 | 697.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point187 | 187 | 2,642.7 | 697.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point188 | 188 | 2,642.7 | 610.3 | 100.00 | 15.00 | | | | | |
| Barrier38 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point189 | 189 | 1,089.5 | 389.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point190 | 190 | 1,087.3 | 242.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | point191 | 191 | 1,128.8 | 242.2 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point192 | 192 | 1,131.0 | 388.8 | 100.00 | 20.00 | | | | | |
| Barrier39 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point194 | 194 | 1,352.7 | 394.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point195 | 195 | 1,446.4 | 392.7 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point196 | 196 | 1,444.7 | 305.9 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point197 | 197 | 1,350.9 | 307.6 | 100.00 | 20.00 | | | | | |
| Barrier40 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point198 | 198 | 1,260.6 | 285.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point199 | 199 | 1,429.1 | 283.3 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point200 | 200 | 1,432.4 | 92.4 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point201 | 201 | 1,258.7 | 94.1 | 100.00 | 20.00 | | | | | |
| Barrier41 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point202 | 202 | 2,145.4 | 522.9 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point203 | 203 | 2,147.6 | 398.2 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point204 | 204 | 2,414.4 | 398.5 | 100.00 | 15.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point205 | 205 | 2,414.4 | 523.2 | 100.00 | 15.00 | | | | | |
| Barrier42 | W | 0.00 | 99.99 | 0.00 | | | | 0.00 | point206 | 206 | 2,160.8 | 277.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point207 | 207 | 2,165.1 | 46.0 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point208 | 208 | 2,285.4 | 43.8 | 100.00 | 20.00 | 0.00 | 0 | 0 | | |
| | | | | | | | | | point209 | 209 | 2,281.1 | 275.7 | 100.00 | 20.00 | | | | | |

Dudek
MG
11 October 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 9127
RUN: SM Blvd/O.Grve WeHo Cultv w Pr 101122
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

| Receiver Name | No. | #DUs | Existing LAeq1h | No Barrier LAeq1h Calculated | Crit'n | Increase over existing Calculated | Increase over existing Crit'n Sub'l Inc | Type Impact | With Barrier Calculated LAeq1h | Noise Reduction Calculated | Noise Reduction Goal | Calculated minus Goal |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | dBA | dBA | dBA | dB | dB | | dBA | dB | dB | dB |
| R1 / ST1 Proj Site on SMB | 18 | 1 | 0.0 | 69.8 | 66 | 69.8 | 10 | Snd Lvl | 69.8 | 0.0 | 8 | -8.0 |
| R2 /ST2 Resi n of Proj Site | 20 | 1 | 0.0 | 45.2 | 66 | 45.2 | 10 | ---- | 45.2 | 0.0 | 8 | -8.0 |
| R3 / ST3 Proj Site on N O.Grove Blvd | 21 | 1 | 0.0 | 58.3 | 66 | 58.3 | 10 | ---- | 58.3 | 0.0 | 8 | -8.0 |
| R4 / ST4 child car on N O.Grove Blvd | 22 | 1 | 0.0 | 56.1 | 66 | 56.1 | 10 | ---- | 56.1 | 0.0 | 8 | -8.0 |
| R5 / ST5 Resi N Ogden Dr n of SMB | 23 | 1 | 0.0 | 55.9 | 66 | 55.9 | 10 | ---- | 55.9 | 0.0 | 8 | -8.0 |
| R6 / ST6 Resi N Ogden Dr n of SMB | 24 | 1 | 0.0 | 59.1 | 66 | 59.1 | 10 | ---- | 59.1 | 0.0 | 8 | -8.0 |
| R7 Resi N Fairfax Ave n of SMB | 25 | 1 | 0.0 | 63.9 | 66 | 63.9 | 10 | ---- | 63.9 | 0.0 | 8 | -8.0 |
| R8 Res N Fairfax Ave s of SMB | 26 | 1 | 0.0 | 67.8 | 66 | 67.8 | 10 | Snd Lvl | 67.8 | 0.0 | 8 | -8.0 |
| R9 Resi N O.Grove Blvd s of SMB | 27 | 1 | 0.0 | 56.9 | 66 | 56.9 | 10 | ---- | 56.9 | 0.0 | 8 | -8.0 |
| R10 Resi N Ogden Dr s of SMB | 28 | 1 | 0.0 | 56.6 | 66 | 56.6 | 10 | ---- | 56.6 | 0.0 | 8 | -8.0 |
| R11 Resi N Genessee Ave n of SMB | 29 | 1 | 0.0 | 57.7 | 66 | 57.7 | 10 | ---- | 57.7 | 0.0 | 8 | -8.0 |
| R12 Resi N Genessee Ave s of SMB | 33 | 1 | 0.0 | 57.1 | 66 | 57.1 | 10 | ---- | 57.1 | 0.0 | 8 | -8.0 |

| Dwelling Units | # DUs | Noise Reduction Min | Avg | Max |
|---|---|---|---|---|
| | | dB | dB | dB |
| All Selected | 12 | 0.0 | 0.0 | 0.0 |
| All Impacted | 2 | 0.0 | 0.0 | 0.0 |
| All that meet NR Goal | 0 | 0.0 | 0.0 | 0.0 |