

Environmental Noise Feasibility Study

Columbia Square

Proposed Mixed-Use Development
14245 Highway 50
Bolton, Town of Caledon

April 23, 2024
Project: 121-0047

Prepared for

Columbia Square Inc

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VALCOUSTICS

Canada Ltd.

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Environmental Noise Feasibility Study

Columbia Square

Proposed Mixed-Use Development

14245 Highway 50
Bolton, Town of Caledon

EXECUTIVE SUMMARY

Valcoustics Canada Ltd. (VCL) previously prepared an Environmental Noise Feasibility Study dated November 9, 2021 for the proposed mixed-use development. This update report has been prepared to address revisions to the architectural drawings.

The proposed development is located at the northeast corner of Highway 50 and Columbia Way in Bolton and will include 3 phases (Phases 1, 2 and 3):

- Phase 1 includes eleven back-to-back stacked townhouse blocks (Blocks A to K);
- Phase 2 includes a mixed-use building consisting of a 3-storey podium with two 10-storey residential towers (Building A); and
- Phase 3 includes a 9-storey residential building (Building B).

The on-site sound levels have been determined and compared with the applicable Ministry of the Environment, Conservation and Parks (MECP) noise guideline limits to determine the need for noise mitigation.

The significant transportation noise sources in the project vicinity include road traffic along Highway 50 and Columbia Way.

To meet the applicable transportation noise source guideline limits:

- Buildings A and B require mandatory air conditioning for noise control purposes.
- Blocks A, B, E, H and K require the provision for adding air conditioning at a later date.
- Accounting for exterior wall construction meeting STC 37, the following exterior window construction is required:
 - STC 33 at Building A; and
 - STC 28 at Building B and Blocks A, B, E, H and K.

- Final wall and window STC requirements should be reviewed when detailed building plans and architectural drawings are available. This is usually done as a condition for obtaining a building permit.

The stationary noise source with the potential for impact at the subject site is the Town of Caledon Yard #3 located at 14220 Highway 50, on the west side of Highway 50 to the proposed development. The applicable stationary noise source guideline limits are expected to be met at the subject site without mitigation measures.

1.0 INTRODUCTION

VCL previously prepared an Environmental Noise Feasibility Study for the proposed mixed-use development dated November 9, 2021. This update report has been prepared to address revisions to the architectural drawings.

The sound levels and noise mitigation measures required for the proposed development to comply with the applicable MECP noise guideline limits are outlined herein.

1.1 DESCRIPTION OF SITE AND SURROUNDING AREA

The subject site is located at 14245 Highway 50, at the northeast corner of Highway 50 and Columbia Way in Bolton, Town of Caledon. The site is bounded by:

- Highway 50, with the Town of Caledon Yard #3 and agricultural land beyond, to the west;
- Columbia Way, with residential townhouses beyond, to the south;
- St. Michael Catholic Secondary School to the east, and
- Agricultural land, with the Albion Auto Centre and John's Nursery beyond, to the north.

A Key Plan is included as Figure 1.

This study is based on the architectural drawings prepared by KFA Architects and Planners Inc., dated February 21, 2024. The architectural drawings are included as Appendix A. The Site Plan Phases 1, 2 and 3 from the drawing set is included as Figure 2. Building numbers have been added by VCL for descriptive purposes.

1.2 THE PROPOSED DEVELOPMENT

The proposed development will include 3 phases (Phase 1, 2 and 3):

- Phase 1 is located within the north half of the site and include eleven (11) back-to-back stacked townhouse blocks (Blocks A, B, C, D, E, F, G, H, I, J and K).
- Phase 2 is located at the southwest corner of the site and includes a mixed-use building (Building A) consisting of a 3-storey podium with two 10-storey residential towers above (Towers A1 and A2). The ground floor of the podium will include retail uses. A common grade level outdoor amenity area will be provided at the south side of the building.

- Phase 3 is located at the southeast corner of the site and includes a 9-storey residential building (Building B). A common grade level outdoor amenity area will be provided at the south side of the building.

The project will include one level of underground parking extending below the entire development. A second level of underground parking will also be provided below Phase 2. A park will be located at the centre of the site. Most units within the development will include small (less than 4 m in depth) private balconies/terraces.

2.0 NOISE SOURCES

2.1 TRANSPORTATION NOISE SOURCES

The transportation noise sources with potential to impact the proposed development include road traffic on Highway 50, Columbia Way and the future Kingsview Drive extension along the east side of the site. Traffic volumes or noise from other roadways are anticipated to be minor and no significant impacts are expected at the subject site. Thus, these roadways have not been considered further in the assessment.

Road traffic data used in the assessment is summarized in Table 1 and provided in Appendix B.

2.1.1 Road Traffic Sources

Ultimate road traffic data for Highway 50 was obtained from the Region of Peel. The posted speed limit of Highway 50 in the vicinity of the site is 60 km/hr. In accordance with Town of Caledon requirements, a vehicle travel speed of 70 km/hr was used in the assessment.

Future road traffic volumes (applicable to the year 2035) for Kingsview Drive and Columbia Way were provided by CGH Transportation Inc., the traffic consultant on the project. The data included peak AM and PM hourly volumes at the intersection of Columbia Way and Kingsview Drive. A 24-hour volume was obtained by multiplying the higher of the PM/AM volume by 10. A growth rate of 2%, compounded annually, was used to obtain future year (2044) traffic volumes. A 20-year design condition was used as is required by the Town of Caledon (See Section 3.1.3). The percentages of medium trucks and heavy trucks were assumed to be 3% and 2% of the total traffic volumes, respectively. A day/night split of 90%/10% was used for each roadway, as is typical for well-travelled roadways. The posted speed limit of Columbia Way in the vicinity of the site is 40 km/hr. In accordance with Town of Caledon requirements, a vehicle travel speed of 50 km/hr was used in the assessment. The same speed was applied to Kingsview Drive.

2.2 STATIONARY NOISE SOURCES

2.2.1 Existing Sources

The Town of Caledon Yard #3 is located at 14220 Highway 50, on the west side of Highway 50 to the proposed development. There are two departments from the Town of Caledon that operate at this property. To the north is the operations centre for the park's maintenance services, and to the south is a road maintenance facility. VCL staff visited the yard to complete sound measurements and observations on June 25, 2021. A detailed assessment of the noise impact from the facility onto the subject site is included in Section 4.2.

Albion Auto Centre is located at 14289 Highway 50, approximately 65 m north of the proposed development. Noise sources at facility are expected to be noise emitted through open overhead bay doors, which face west towards Highway 50, away from the subject site. Based on the distance setback, orientation of the overhead doors and presence of Highway 50 (which contributes to a higher ambient sound level in the area), significant noise impact from this facility is not expected. This was confirmed during a site visit by VCL staff on June 25, 2021, where noise from the facility was not audible at the subject site.

John's Nursery Garden is located at 14337 Highway 50, approximately 180 m north of the proposed development. Noise sources at facility are expected to be the occasional truck delivery. Based on the distance setback and presence of Highway 50, significant noise impact from this facility is not expected. This was confirmed during a site visit by VCL staff, where noise from the facility was not audible at the subject site.

St. Michael Catholic Secondary School is located at 9130 Columbia Way, directly east of the proposed development. The parking lot and field are located on the west side of the property, nearest to the subject site. The school building is located approximately 170 m east of the proposed development. Noise sources at the school are expected to be the rooftop HVAC equipment. Due to the setback distance, significant noise impact from the facility is not expected. This was confirmed during a site visit to the area by VCL staff, where noise from the facility was not audible at the subject site.

James Dick Construction is located at 14442 Highway 50, greater than 430 m northwest of the proposed development. Noise sources at the facility are expected to include truck traffic to and from the yard, front end loaders loading aggregate material into dump trucks, crushing of raw aggregate materials, etc. Due to the setback distance and presence of the intervening Highway 50 (which contributes to a higher ambient sound level in the area), significant noise impact from this facility is not expected. This was confirmed during a site visit to the area by VCL staff, where noise from the facility was not audible at the subject site.

Motor Home RV Travel is located at 14124 Highway 50, approximately 140 m southwest of the proposed development. The only noise source associated with the facility is expected to be vehicle movements around the site. Due to the setback distance and presence of the intervening Highway 50, significant noise impact from this facility is not expected. This was confirmed during a site visit to the area by VCL staff, where noise from the facility was not audible at the subject site.

The Caledon Centre of Recreation and Wellness is located at 14111 Highway 50, with the nearest building approximately 160 m south of the subject site. The only noise sources associated with the facility are expected to be the rooftop HVAC equipment. Based on the setback distance, significant noise impact from this facility is not expected. This was confirmed during a site visit to the area by VCL staff, where noise from the facility was not audible at the subject site.

There are no other stationary noise sources in the vicinity of the site that are expected to create a significant noise impact at the subject site.

2.2.2 Future Sources

The future stationary noise sources with potential to impact the residential dwellings in the proposed development is the rooftop mechanical equipment associated with Buildings A and B,

the ventilation systems for the underground parking levels and emergency generator systems (if applicable). Detailed plans for the buildings are not yet available. However, the buildings will need to be designed such that the noise emissions meet the stationary noise source limits in MECP Publication NPC-300, recognizing the adjacent residential uses. This is normally addressed during the detailed design of the building once floor plans and mechanical systems have been developed and mechanical equipment selections have been made.

3.0 ENVIRONMENTAL NOISE GUIDELINES

3.1 TRANSPORTATION NOISE SOURCES

3.1.1 MECP Publication NPC-300

The applicable noise guidelines for new residential development are those in MECP Publication NPC-300, “Environmental Noise Guideline, Stationary and Transportation Sources - Approval and Planning”.

The environmental noise guidelines of the MECP, as provided in Publication NPC-300, are discussed briefly below and summarized in Appendix C.

3.1.1.1 Architectural Elements

In the daytime, the indoor criterion for road traffic noise is $L_{eq\ Day}^{(1)}$ of 45 dBA for sensitive spaces such as living/dining rooms, dens and bedrooms. At night, the indoor criterion for road traffic noise is $L_{eq\ Night}^{(2)}$ of 45 dBA for sensitive spaces such as living/dining rooms and dens and 40 dBA for bedrooms.

The architectural design of the building envelope (walls, windows, etc.) must provide adequate sound isolation to achieve these indoor sound level limits, based on the applicable outdoor sound levels predicted on the building facades.

3.1.1.2 Ventilation

In accordance with the MECP noise guideline for road traffic sources, if the daytime sound level, $L_{eq\ Day}$, at the exterior face of a noise sensitive window is greater than 65 dBA, means must be provided so that windows can be kept closed for noise control purposes and central air conditioning is required. For daytime sound levels between 56 dBA and 65 dBA inclusive, there need only be the provision for adding air conditioning at a later date. A warning clause advising the occupant of the potential interference with some activities is also required. At nighttime, air conditioning would be required when the sound level exceeds 60 dBA ($L_{eq\ Night}$) at a noise sensitive window (provision for adding air conditioning is required when greater than 50 dBA).

3.1.1.3 Outdoors

For outdoor amenity areas (“Outdoor Living Areas” - OLA’s), the guideline sound level is 55 dBA $L_{eq\ Day}$ (0700 to 2300 hours), with an excess not exceeding 5 dBA considered acceptable if it is technically not practicable to achieve the 55 dBA objective, provided warning clauses are

(1) 16-hour energy equivalent sound level (0700-2300 hours).

(2) 8-hour energy equivalent sound level (2300-0700 hours).

registered on title. Note that for road and rail traffic sources, a balcony is not considered an OLA unless it is:

- the only OLA for the occupant;
- at least 4 m in depth; and
- unenclosed.

3.1.2 Region of Peel

The Region of Peel guidelines are essentially the same as the MECP guidelines except that the nighttime level for triggering the air conditioning requirement is 1 dBA more stringent (i.e., lower) than the levels specified by the MECP – i.e., mandatory air conditioning for nighttime sound levels of 60 dBA or greater, and the provision for adding air conditioning for levels between 51 to 59 dBA inclusive.

A maximum desirable sound barrier height of 4 m (relative to roadway centreline elevation) is indicated with a maximum acoustic fence component height of 2.4 m, although a height of no more than 2.0 m is preferred.

3.1.3 Town of Caledon

For transportation noise sources, the Town of Caledon's general policy is not to accept the 5 dBA excess above the 55 dBA MECP objective for OLA's. However, an excess may be acceptable if unreasonably high sound barriers are needed to meet the 55 dBA objective.

The Town's maximum acoustic fence height is 2.4 m. Higher barriers can be achieved using a combination of an acoustic fence and a berm.

Also, traffic noise impacts are to be assessed based on a 20-year traffic forecast for the adjacent roadways, using a traffic speed 10 km/hr above the posted speed limit.

3.2 STATIONARY NOISE SOURCES

3.2.1 MECP Noise Guideline Publication NPC-300

Stationary sources are treated differently by the MECP guideline than transportation sources of noise. Stationary source noise criteria used for noise impact assessment are dependent on the type of area and the ambient sound environment.

The site and area are considered Class 1; i.e., an area where the ambient sound environment is dominated by "urban hum", primarily traffic noise. This is due to the proximity to the area road network, including Highway 50 and Columbia Way in particular.

MECP Publication NPC-300 states that the guideline limits for stationary sources shall be defined by the higher of the ambient sound level, due to road traffic noise, or the minimum exclusion limits for a Class 1 area of 50 dBA daytime (0700 to 1900 hours), 50 dBA evening (1900 to 2300 hours) and 45 dBA nighttime (2300 to 0700 hours). The limits apply at a noise sensitive plane of window (POW) at all times or at an outdoor point of reception (OPOR) in the daytime and evening only. There are no sound level limits for OPORs at night.

The MECP requires a “worst-case” one-hour operating scenario be analysed. This would typically occur when the background ambient sound level is at a minimum and the noise generated from the stationary noise sources is at a maximum.

The guideline limits apply to habitable spaces such as living/dining/family rooms and sleep areas. No indoor sound level guidelines are provided for stationary sources. There are also no requirements for stationary source noise impacts onto commercial/retail units.

4.0 NOISE IMPACT ASSESSMENT

4.1 TRANSPORTATION NOISE SOURCES

4.1.1 Assessment Method

Using the road traffic data in Tables 1, outdoor sound levels, in terms of equivalent sound pressure levels during the daytime and nighttime periods ($L_{eq \text{ Day}}$ and $L_{eq \text{ Night}}$), were determined using STAMSON V5.04 – ORNAMENT, the computerized road noise prediction model of the MECP.

The daytime and nighttime sound levels at the building facades were calculated at heights of 31.5 m above grade for Building A, 29.0 m above grade for Building B and 9.5 m above grade for the townhouse blocks. The building heights represent the top storey worst-case locations. For the common OLAs at the south sides of Buildings A and B, the receptors were taken at the centre of the amenity space at a height of 1.5 m above the ground. All other balconies/terraces in the development are less than 4 m in depth and not considered OLAs.

Inherent screening of each building face due to its orientation to the noise source was taken into account. Screening from other buildings within the development was not included in the assessment.

4.1.2 Predicted Sound Levels

The highest unmitigated daytime/nighttime facade sound levels are:

- 67 dBA/60 dBA are predicted to occur on the west facade of Building A, siding onto Highway 50.
- 62 dBA/54 dBA are predicted to occur on the west facade of Block A, siding onto Highway 50.
- 61 dBA is predicted at the common grade level outdoor amenity areas at the south sides of Buildings A and B.

Table 2 summarizes the unmitigated daytime and nighttime sound level predictions for several locations within in the proposed development. Sample calculations are included in Appendix D.

4.1.3 Noise Control Requirements

The noise control requirements can generally be classified into two categories which are interrelated, but which can be treated separately for the most part:

- a) Architectural elements to achieve acceptable indoor noise guidelines;
- b) Design features to protect the OLA's.

Noise abatement requirements are summarized on Figure 2 and in Table 3 along with the notes to Table 3.

4.1.3.1 Indoors

4.1.3.1.1 *Architectural Elements*

The indoor sound level guidelines for the transportation sources can be achieved by using appropriate construction for exterior walls, windows and doors. In determining the worst-case architectural requirements, the following wall and window areas (respectively, of the associated floor areas) were assumed, at a corner room with both facades directly exposed to and at an angle to the noise sources, for both living/dining rooms and bedrooms:

- 20% (wall) and 80% (window) for Buildings A and B; and
- 80% (wall) and 30% (window) for the townhouse blocks.

Accounting for exterior wall construction meeting STC 37, the following window construction is required:

- STC 33 for all residential units in Building A; and
- STC 28 for all residential units in Building B and Blocks A, B, E, H and K

For all remaining residential dwellings in this development, exterior walls and windows meeting the minimum non-acoustical requirements of the Ontario Building Code (OBC) will be sufficient to achieve the indoor noise guideline criteria of the MECP.

For walls, a typical exterior facade construction which meets the minimum non-acoustical requirements of the OBC would be expected to achieve STC 37. For windows, double-glazing configurations meeting the minimum non-acoustical requirements of the OBC would be expected to achieve STC rating of 28.

Note, the window frames must also be designed to ensure that the overall sound isolation performance for the entire window meets the sound isolation requirement. This should be confirmed by the window manufacturer through the submission of acoustical test data.

The final sound isolation requirements should be reviewed when architectural plans are finalized. Wall and window constructions should also be reviewed at this point to ensure that the required sound isolation performance is met.

4.1.3.1.2 *Ventilation Requirements*

Based on the predicted sound levels, Building A requires mandatory air conditioning for noise control purposes.

Building B and Blocks A, B, E, H and K require the provision for adding air conditioning at a later date. This typically takes the form of a ducted, forced air heating system, suitably sized to accommodate air conditioning.

Provision for adding air conditioning is typically not practical to implement in mid-rise construction. As such, the ventilation requirements for Building B have been upgraded to mandatory air conditioning.

4.1.3.2 Outdoors

The predicted daytime sound level at the common grade level outdoor amenity areas at the south side of Buildings A and B are 61 dBA. To meet the 55 dBA objective, a 2.0 m high sound barrier is required around the amenity areas. See Figure 2. Note, if these spaces are used as commercial/restaurant patios, sound barriers would not be required.

All other balconies/terraces in the development are less than 4 m in depth and therefore would not be considered OLAs under the MECP definitions. Similarly, the park at the centre of the site is not considered an OLA as it is not intended for the quiet enjoyment of the outdoors.

The sound barriers/acoustic fences must be of solid construction with no gaps, cracks or holes (except for small openings required for water drainage) and must have a minimum surface weight of 20 kg/m². A variety of materials are available, including concrete, masonry, glass, wood, specialty composite materials, or a combination of the above.

4.1.3.3 Warning Clauses

Warning clauses are a tool to inform prospective owners/occupants of potential annoyance due to existing noise sources. Where the guideline sound level limits are exceeded, appropriate warning clauses should be registered on title or included in the development agreement that is registered on title. The warning clauses should also be included in agreements of Offers of Purchase and Sale and lease/rental agreements to make future occupants aware of the potential noise situation.

Table 3 and notes to Table 3 summarize the warning clauses for the site.

4.2 STATIONARY NOISE SOURCE ASSESSMENT

4.2.1 Noise Sources and Operating Scenarios

The Town of Caledon Yard #3 is located at 14220 Highway 50, on the west side of Highway 50 to the subject site. VCL staff visited the site on June 25, 2021 to complete sound measurements and observations at the facility.

There are two departments from the Town of Caledon that operate at this property. To the north is the operations centre for the park's maintenance services, and to the south is a road maintenance facility. Both facilities operate during the daytime only, between 0700 and 1700 hours.

Figure 3 shows the location of the noise sources considered in the assessment. Sound source data is included in Appendix E.

4.2.1.1 Park Facility

The park facility includes a garage/office building with 4 overhead doors facing east towards Highway 50. During the summer months the garage is used to store lawnmowers and other

landscaping/maintenance equipment. At the northeast corner of the property there is a shed housing a single snow plow used for sidewalk clearing. The snow plow is swapped with the summer maintenance equipment in the garage during the winter months. The rear of the property is used for general storage and parking flatbed trailers used for transporting lawnmowers.

The busiest hour at the park facility is between 0700 and 0800 hour, when a fleet of up to 10 landscape trucks are loaded with lawnmowers before departing for the day. Each truck can carry up to 2 lawnmowers. In the afternoon, the trucks have staggered returns between 1400 and 1700 hours.

Sound data for the lawn mowers driving onto/off of the flatbed trucks was based on a VCL measurements at the facility (Source ID: LwnMwr_Mvt01). A 5 dBA tonal penalty was added to the sound level in accordance with MECP practices.

Sound data for the medium truck movements and trucks idling were based on VCL measurements completed at similar facilities (Source ID: MdTrk_Mvt01 and MdTrk_Idle01).

During the winter months, the only noise associated with the facility is the loading/unloading of a single small snow plow onto a flatbed truck. The winter maintenance operations at the yard include non-emergency daytime services only, as the primary snow removal operations for the Town occur at a different facility. The noise associated with the winter months is expected to be less than the summer months, as there is only a single snow plow stored at the facility and the hours of operation are also daytime only. As such, the noise associated with the winter maintenance activities has not been considered further in the assessment.

4.2.1.2 Road Maintenance Facility

The road maintenance facility contains bulk aggregate material used for road repair/construction work within the Town of Caledon. It is understood the yard is not the primary maintenance yard for the Town and is only used for non-emergency daytime construction activities. The noise sources at the facility are a front-end loader (FEL) loading aggregate material into dump trucks. During the busiest hour, the yard can expect to receive 6 dump trucks at the facility while an FEL operates continuously to load aggregate material into the trucks.

Sound data for the dump truck movements/idling and the FEL working were based on VCL measurements completed at similar facilities (Source ID: DmpTrk_Mvt01/DmpTrk_Idle01 and FEL01).

4.2.2 Noise Sensitive Receptors

Five (5) noise sensitive receptor locations were used to assess the noise impact on the subject site. The receptors are described as:

- POW01 – representing a 10th floor window on the west facade of the Tower A1;
- POW02 – representing an 10th floor window on the west facade of Tower A2, towards the south end of the building;
- POW03 – representing an 8th floor window on the west facade of Tower A2, towards the north end of the building;

- POW04 - representing an 3rd floor window on the west facade of the most westerly unit in Block A; and
- OPOR01 – representing common outdoor amenity area of Building A.

Receptors representing the planes of windows (POW) for the 3rd, 8th and 10th storey windows were assessed at heights of 9.5 m, 24.5 m and 31.5 m above grade, respectively. The outdoor point of reception (OPOR) was assessed at a standing height of 1.5 m above grade.

The POW receptors represent the worst-case locations as determined using the building evaluation feature in CadnaA, where the highest sound level at any storey, at multiple points on the facade is assessed.

The locations of the assessment receptors are shown on Figure 3.

4.2.2.1 Applicable Sound Level Limits

The guideline limits for most receptors are defined by the ambient road traffic noise, due to the proximity of Highway 50.

Existing traffic volumes were used to calculate the applicable guideline limits. Volume counts for 15-minute segments over a 3-day period, applicable to the year 2019 for Highway 50, was provided by the Region of Peel. The truck breakdown was included in the data.

Using the minimum hourly volumes from the above data, the minimum hourly sound levels due to road traffic was predicted at the receptor locations using the CadnaA implementation of the RLS-90 road traffic noise model.

The traffic data is included in Appendix B. Table 4 shows the applicable guideline limits at each receptor.

4.2.3 Analysis Method

A 3-D acoustic model of the proposed development and surrounding area was developed using CadnaA V2023 MR1 environmental noise modeling software, which follows the protocol of ISO Standard 9613-2, “Acoustics – Attenuation of Sound During Propagation Outdoors”, to predict sound levels at each of the receptor locations. Accounting for distance, atmospheric absorption and ground attenuation, the sound level from all the relevant noise sources (hourly L_{eq}) was determined at the worst-case plane of window and outdoor points of reception associated with the proposed development.

Hard ground ($G = 0$) was used for the paved areas and soft ground ($G = 1$) was used elsewhere. Two orders of sound reflection from the building facades were included in the model.

4.2.4 Assessment Results

Table 4 and Figure 3 show the predicted sound levels at the assessment receptors, together with the applicable guideline limits.

The assessment indicates that the sound levels at the subject site are predicted to meet the noise guideline limits. Therefore, mitigation measures for the Town of Caledon Yard #3 are not required.

5.0 CONCLUSION

With appropriate acoustical design of the development, a suitable acoustical environment can be provided and the applicable MECP noise guideline requirements met.

6.0 REFERENCES

1. PC STAMSON 5.04, “Computer Program for Road Traffic Noise Assessment”, Ontario Ministry of the Environment and Climate Change.
2. Building Practice Note No. 56: “Controlling Sound Transmission into Buildings”, by J. D. Quirt, Division of Building Research, National Council of Canada, September 1985.
3. “Environmental Noise Assessment in Land-Use Planning 1987”, Ontario Ministry of the Environment, February 1987, ISBN 0-7729-2804-5.
4. “Road and Rail Noise: Effects on Housing”, Canada Mortgage and Housing Corporation, Publication NHA 5156, 81/10.
5. “Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning”, Ontario Ministry of the Environment, Publication NPC-300, October 2013.
6. “General Guidelines for the Preparation of Acoustical Reports in the Region of Peel”, Region of Peel, November 2012.
7. “Development Standards Manual Version 5.0”, Town of Caledon, 2019.
8. “Environmental Noise Feasibility Study, Columbia Square, Caledon” prepared by Valcoustics Canada Ltd., dated November 9, 2021.”

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TABLE 1 ROAD TRAFFIC DATA

Roadway	Year	AADT ⁽⁴⁾	% Trucks		Day/Night Split (%)	Speed (kph)
			Medium	Heavy		
Highway 50 ⁽¹⁾	Ultimate	16 200	1.85 (Day) 1.75 (Night)	0.68 (Day) 0.31 (Night)	90 / 10	60
Columbia Way ^{(2),(3)}	2035 (2044)	5 760 (10 182)	3	2	90 / 10	40
Kingsview Drive ^{(2),(3)}	2035 (2044)	2600 (3107)	3	2	90 / 10	40

Notes:

- (1) Ultimate traffic data was obtained from the Region of Peel and confirmed in 2023 to still be valid. The posted speed limit of Highway 50 in the project vicinity is 60 km/hr. A travel speed of 70 km/hr was used in the assessment, in accordance with requirements from the Town of Caledon.
- (2) Future traffic data for 2035 was obtained from the traffic engineers on the project. Year 2044 volumes were calculated by projecting the 2035 counts at a rate of 2% compounded annually. The posted speed limit is 40 km/hr. A travel speed of 50 km/hr was used in the assessment, in accordance with requirements from the Town of Caledon.
- (3) Assumed truck percentages of 3% medium trucks and 2% heavy trucks were used in the assessment.
- (4) Annual Average Daily Traffic.

TABLE 2 PREDICTED UNMITIGATED OUTDOOR SOUND LEVELS

Location ⁽¹⁾	Source	Distance (m) ⁽²⁾	L _{eq} Day (dBA)	L _{eq} Night (dBA)
Building A - Southwest Corner West Facade	Hwy 50	25	66	58
	Columbia Way	23	61	54
	TOTAL	—	67	60
Building B - Southeast Corner South Facade	Hwy 50	209	53	46
	Columbia Way	17	62	56
	Kingsview Dr	27	53	47
	TOTAL	—	63	56
Block A - West Facade	Hwy 50	29	62	55
	Columbia Way	147	37	31
	TOTAL	—	62	55
Block C - South Facade	Hwy 50	91	52	45
	Columbia Way	145	47	41
	TOTAL	—	53	46
Block I - West Facade	Hwy 50	137	53	46
	Columbia Way	62	50	43
	TOTAL	—	55	47
Block K - East Facade	Kingsview Dr	22	55	49
	Columbia Way	53	52	45
	TOTAL	—	57	50
Building A - OLA	Hwy 50	113	45	—
	Columbia Way	18	61	—
	TOTAL	—	61	—
Building B - OLA	Hwy 50	147	44	—
	Columbia Way	18	61	—
	TOTAL	—	61	—

Notes:

- (1) See Figure 2.
- (2) Distance indicated is taken from the centreline of the noise source to the point of reception.
- (3) Sound levels during nighttime hours are not applicable for outdoor living areas.

TABLE 3 NOISE ABATEMENT MEASURES

Location	Air Conditioning ⁽¹⁾	Exterior Wall ⁽²⁾	Exterior Window ⁽³⁾	Sound Barrier ⁽⁴⁾	Warning Clauses ⁽⁵⁾
Building A	Mandatory	STC 37	STC 33	2.0 m high sound barrier at grade level amenity area	A + B + D
Building B	Mandatory	STC 37	STC 28	2.0 m high sound barrier at grade level amenity area	A + B + D
Block A	Provision for Installation	STC 37	STC 28	-	A + C + D
Blocks B, E, H and K	Provision for Installation	STC 37	STC 28	-	A + C
All remaining Blocks	No special acoustic requirements				

Notes:

- (1) Central air conditioning allows windows to remain closed for noise control purposes. Provision for adding air conditioning typically takes the form of a ducted ventilation system suitably sized to permit the addition of central air conditioning by the occupant.
- (2) STC - Sound Transmission Class Rating (Reference ASTM-E413).
STC values are based upon assumed percentages of wall and window area to associated floor area and should be reviewed once building plans are finalized.
- (3) STC - Sound Transmission Class Rating (Reference ASTM-E413). A sliding glass walkout door should be considered as a window and be included in the percentage of glazing.
STC values are based upon assumed percentages of wall and window area to associated floor area and should be reviewed once building plans are finalized.
- (4) Sound barriers must be of solid construction having a minimum face density of 20 kg/m² with no gaps, cracks or holes.
- (5) Warning clauses to be registered on title and be included in Offers of Purchase and Sale for designated lots:
 - A. "Purchasers/tenants are advised that despite the inclusion of noise control features in the development and within the building units, sound levels due to increasing road may occasionally interfere with some activities of the dwelling occupants as the sound level may exceed the noise criteria of the Ministry of the Environment, Conservation and Parks and/or the municipality."
 - B. "This dwelling unit has been supplied with an air conditioning system which will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the noise criteria of the Ministry of the Environment, Conservation and Park and/or the municipality."
 - C. "This dwelling unit has been designed with the provision for adding central air conditioning at the occupant's discretion. Installation of central air conditioning by the occupant will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Ministry of the Environment, Conservation and Parks and/or the municipality."
 - D. "Purchasers/tenants are advised that due to the proximity of the Town of Caledon Yard #3, noise from this facility may at times be audible."
- (6) All exterior doors shall be fully weather-stripped.

**TABLE 4 UNMITIGATED PREDICTED SOUND LEVELS DUE TO
TOWN OF CALEDON YARD #3**

Receptor ID⁽¹⁾	Predicted Hourly Sound Level (dBA)⁽³⁾	Guideline Limit (dBA)⁽²⁾⁽³⁾
POW01	52	58
POW02	54	61
POW03	52	62
POW04	51	60
OPOR01	48	50

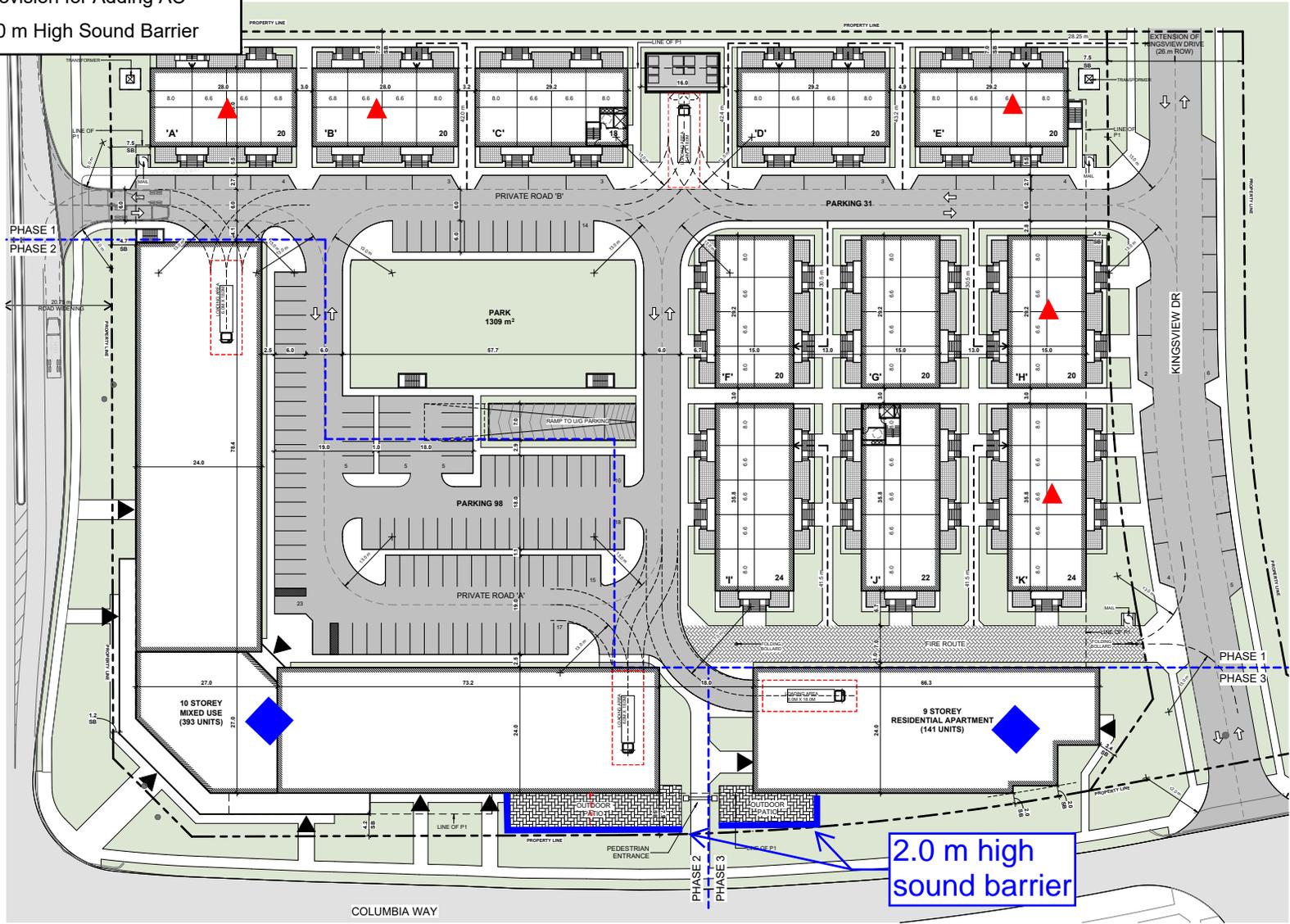
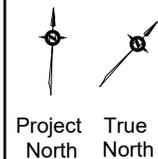
Notes:

- (1) See Figure 3 for receptor locations.
- (2) Defined by the higher of the ambient road traffic noise or minimum exclusion limits in a Class 1 area.
- (3) Daytime only (0700 to 1900 hours).



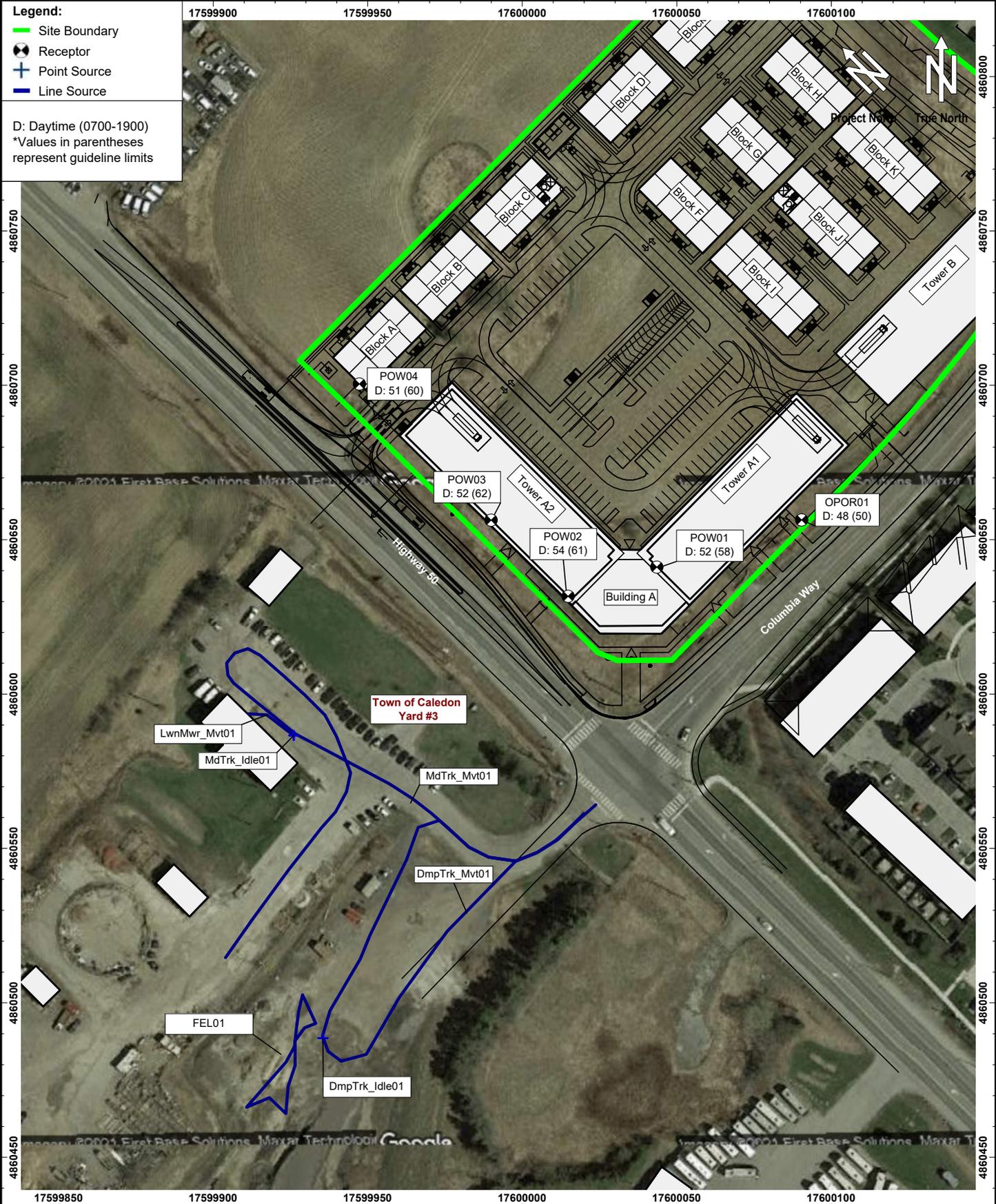
Legend

- ◆ Mandatory AC
- ▲ Provision for Adding AC
- 2.0 m High Sound Barrier



Base drawing prepared by KFA Architects and Planners Inc.

	<p>Title Site Plan Phases 1, 2 and 3</p>	<p>Date Mar 13, 2024</p>	<p>Figure</p>
	<p>Project Name Columbia Square, Caledon</p>	<p>Project No. 121-0047</p>	<p style="font-size: 2em; font-weight: bold;">2</p>



Title
Predicted Sound Levels (dBA) - Town of Caledon Yard #3

Project Name
Columbia Square, Caledon

Date
2024-03-13

Project No.
121-0047.000

Figure
3

APPENDIX A

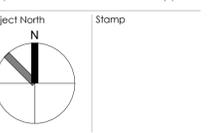
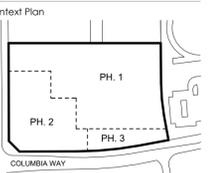
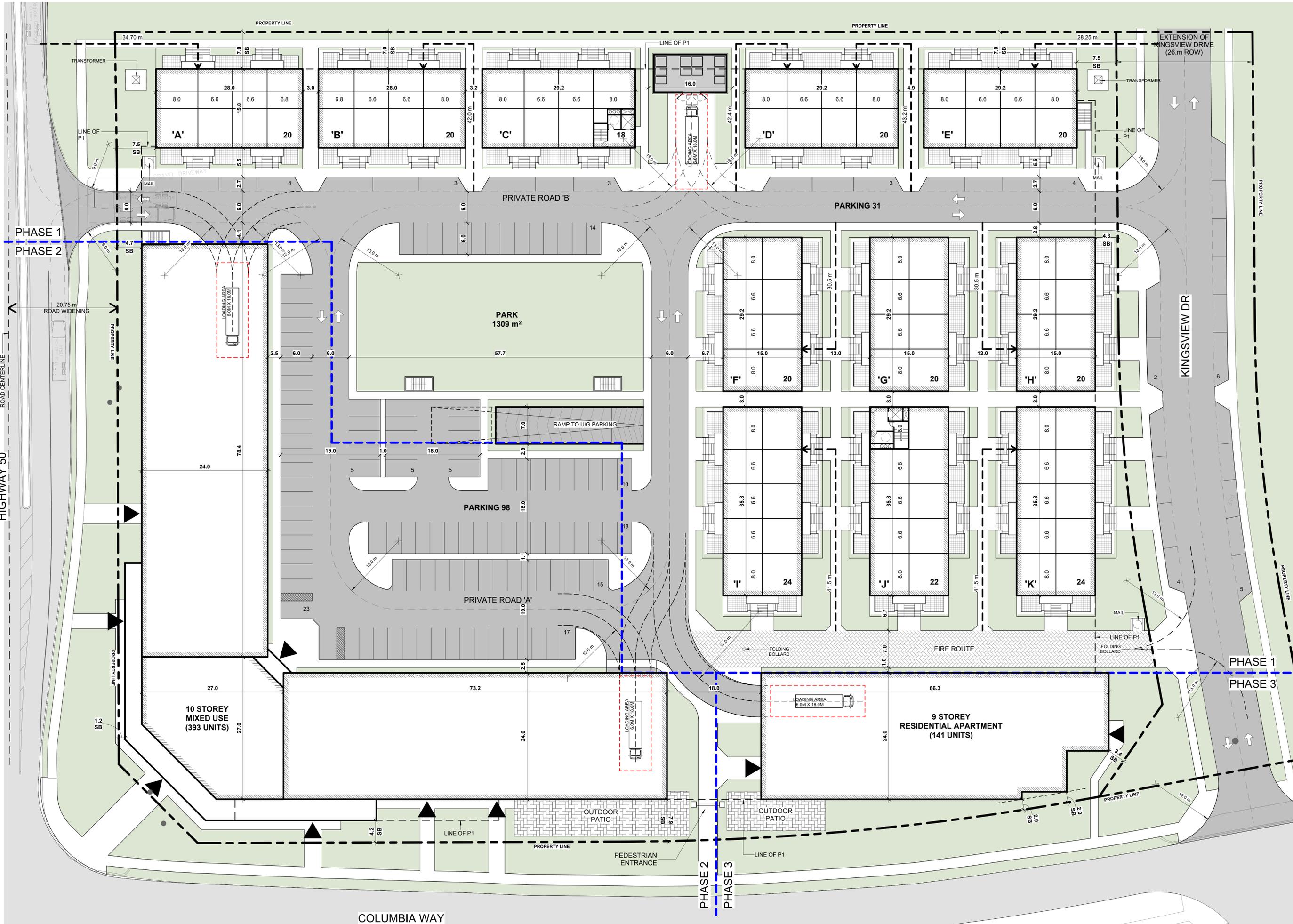
ARCHITECTURAL DRAWINGS

COLUMBIA SQUARE

BOLTON, ONTARIO

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SITE PLAN PHASES
 1, 2, 3

No.
A100

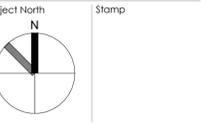
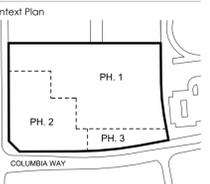
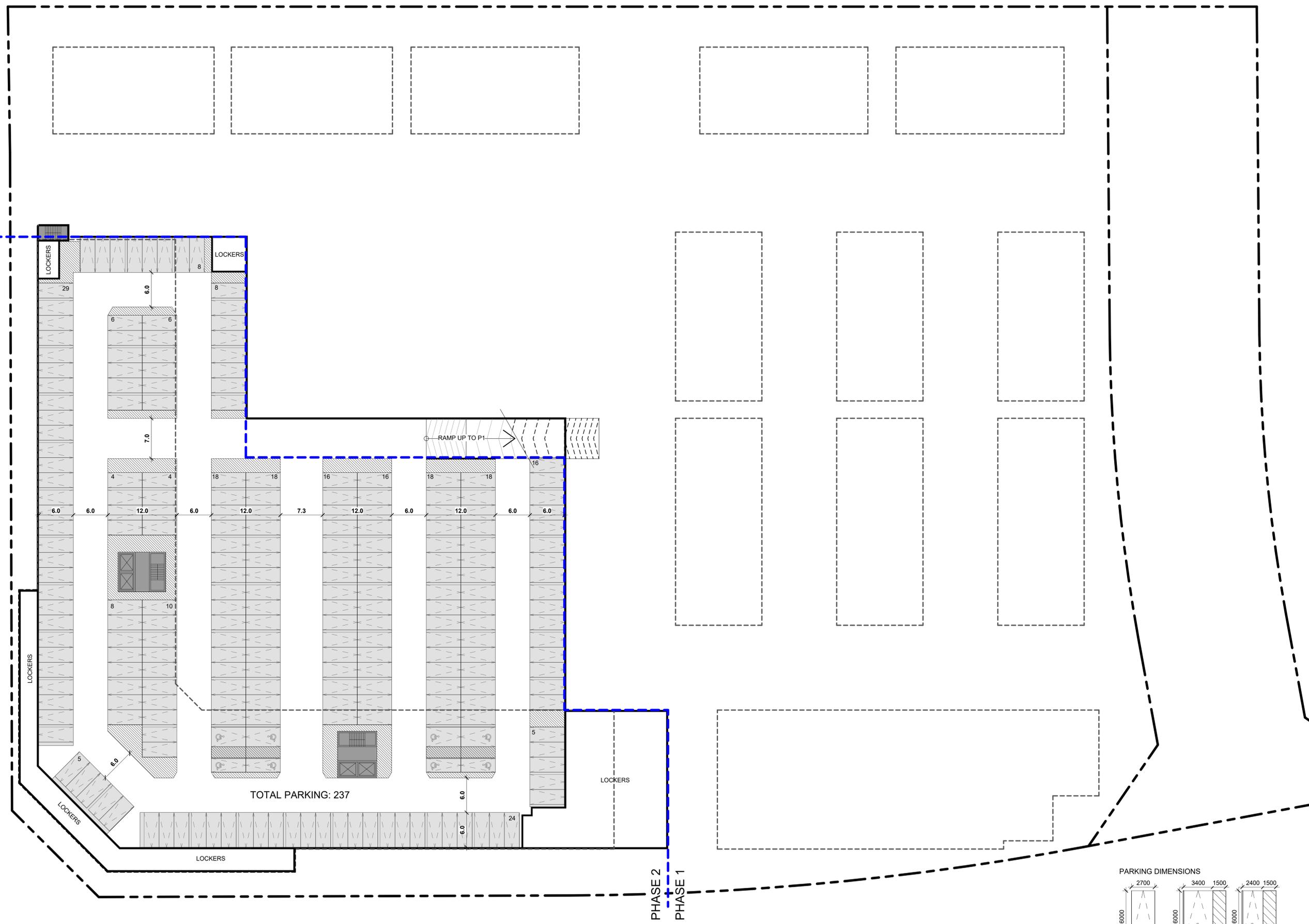
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No.	Description	Date
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PHASE 1
PHASE 2



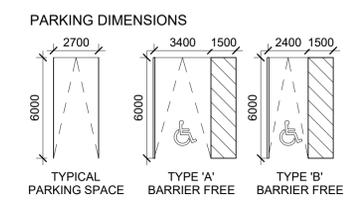
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P2 LEVEL PLAN
PHASES 1, 2, 3

No.
A101

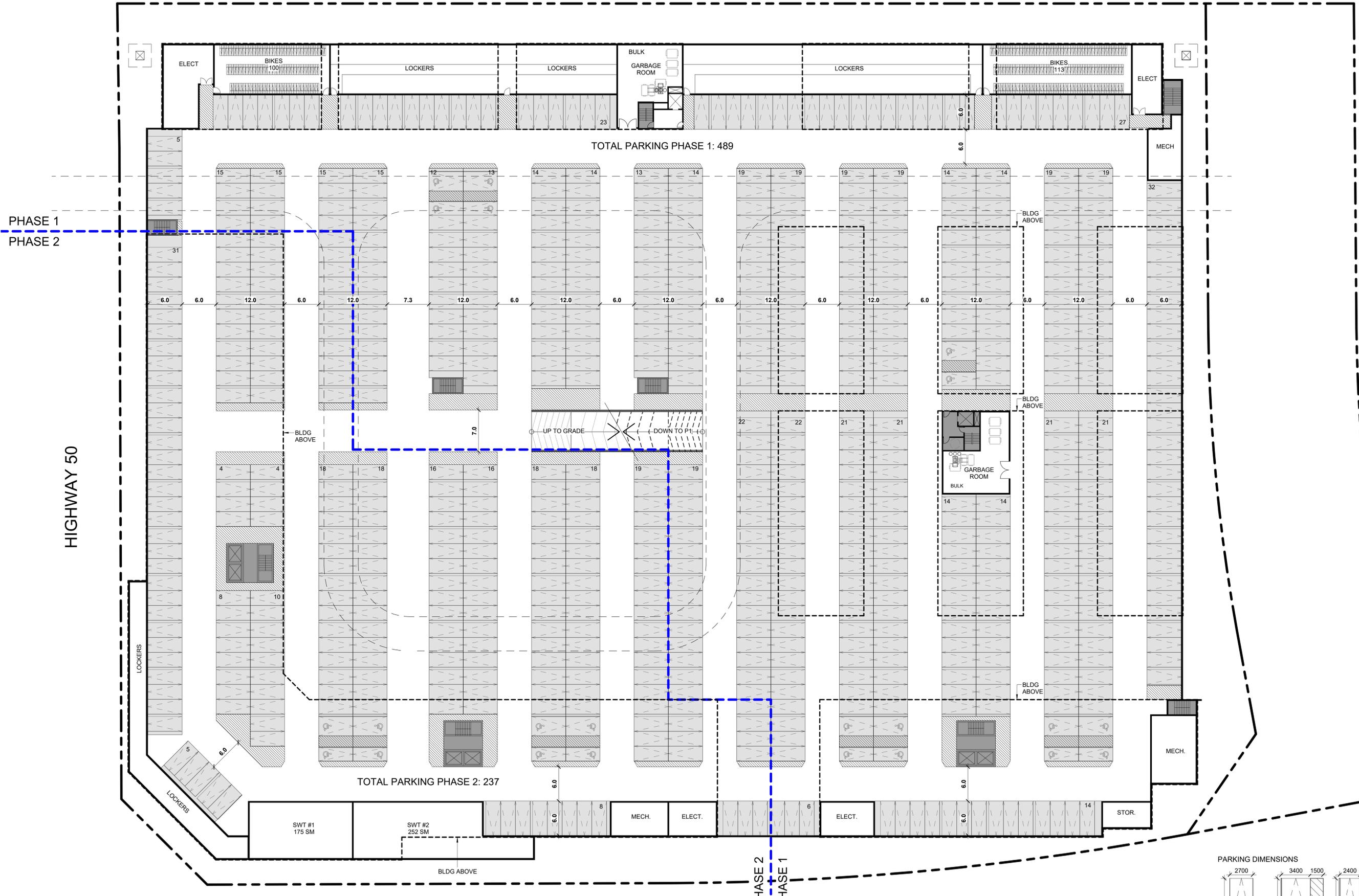


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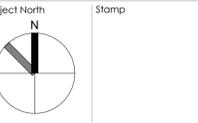
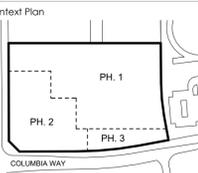
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13	ISSUED FOR REVIEW	2024/02/21



PHASE 1
PHASE 2

HIGHWAY 50

COLUMBIA WAY



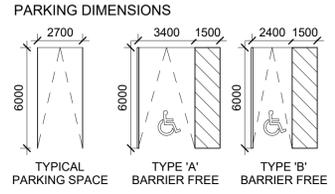
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P1 LEVEL PLAN
PHASES 1, 2, 3

No.
A102

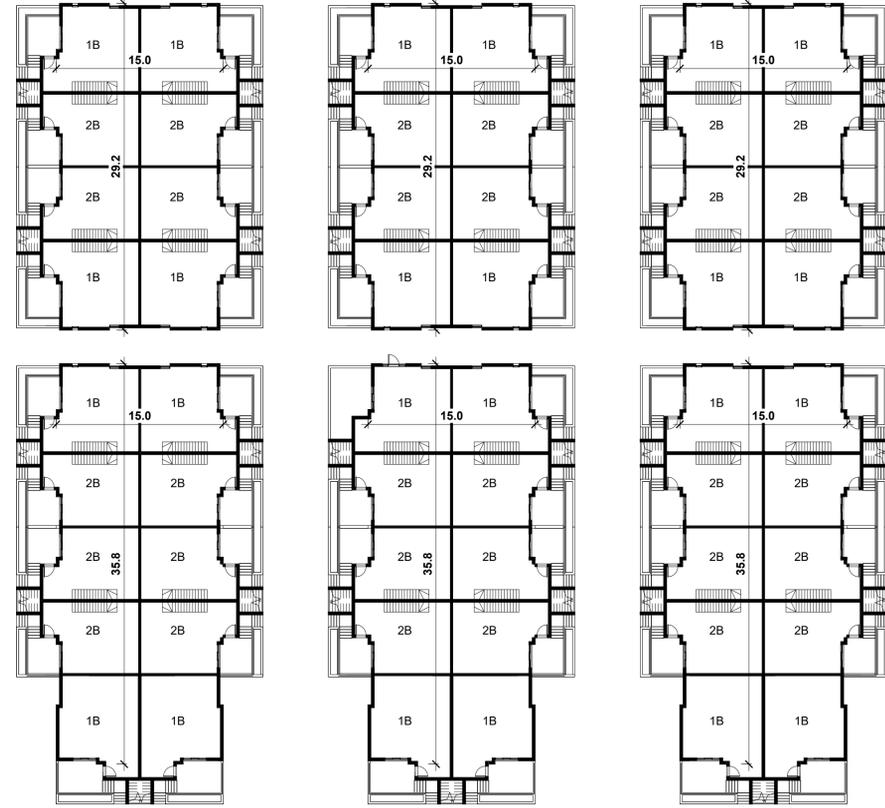
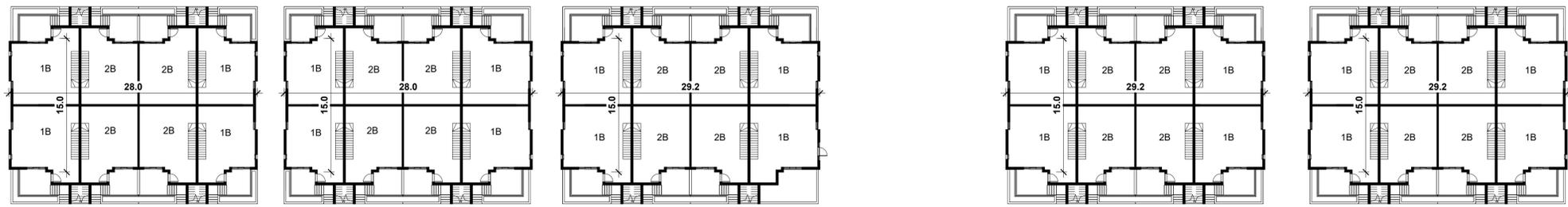


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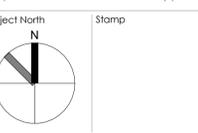
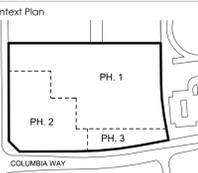
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PHASE 1
PHASE 2

PHASE 1
PHASE 3

PHASE 2
PHASE 3



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GROUND PLAN
PHASE 1, 2, 3

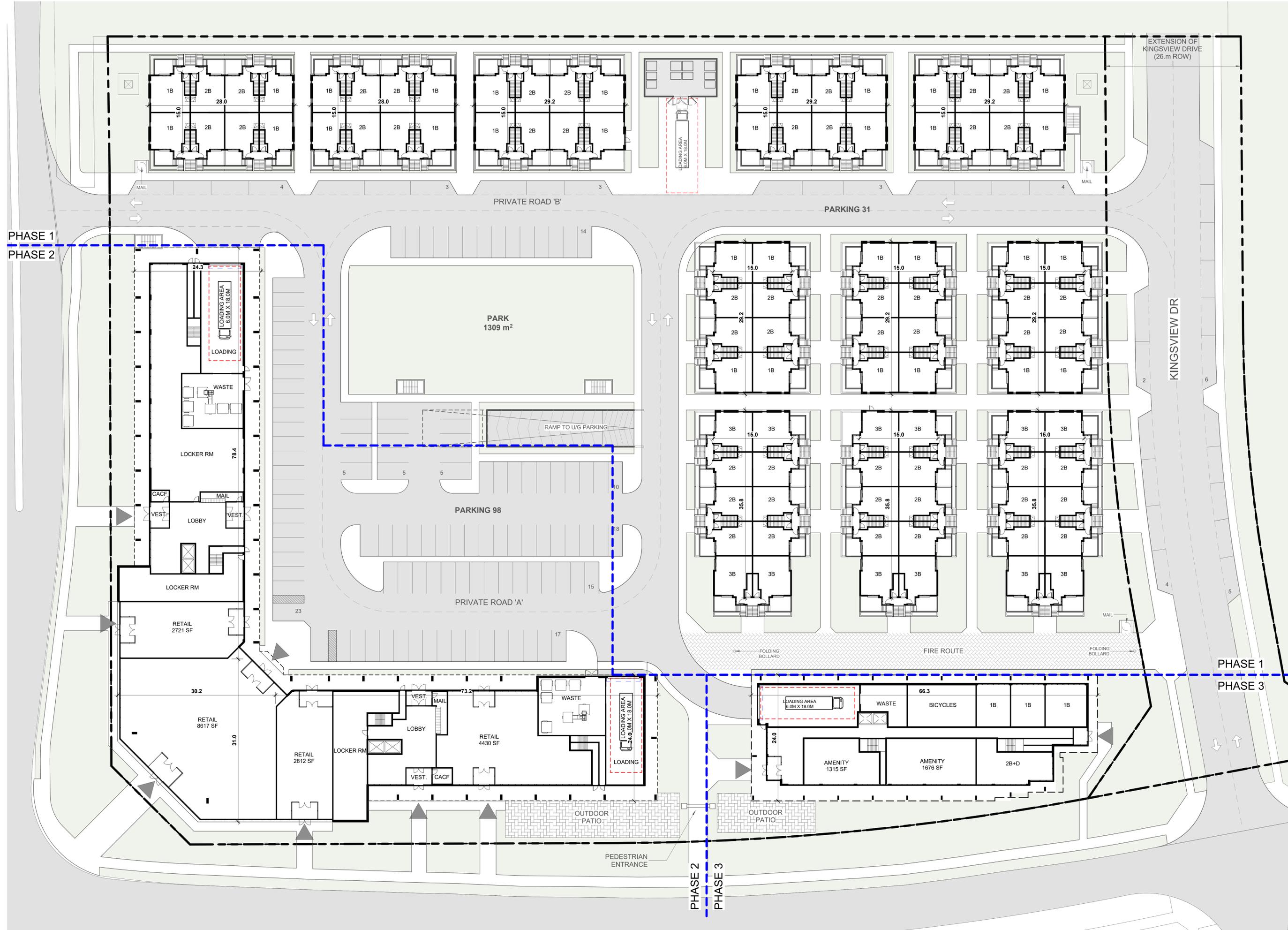
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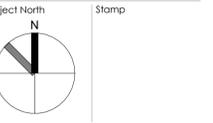
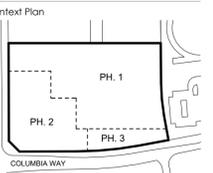
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1ST FLOOR PLAN
PHASE 1, 2, 3

No.
A104

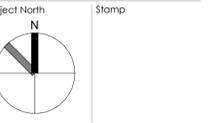
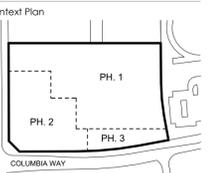
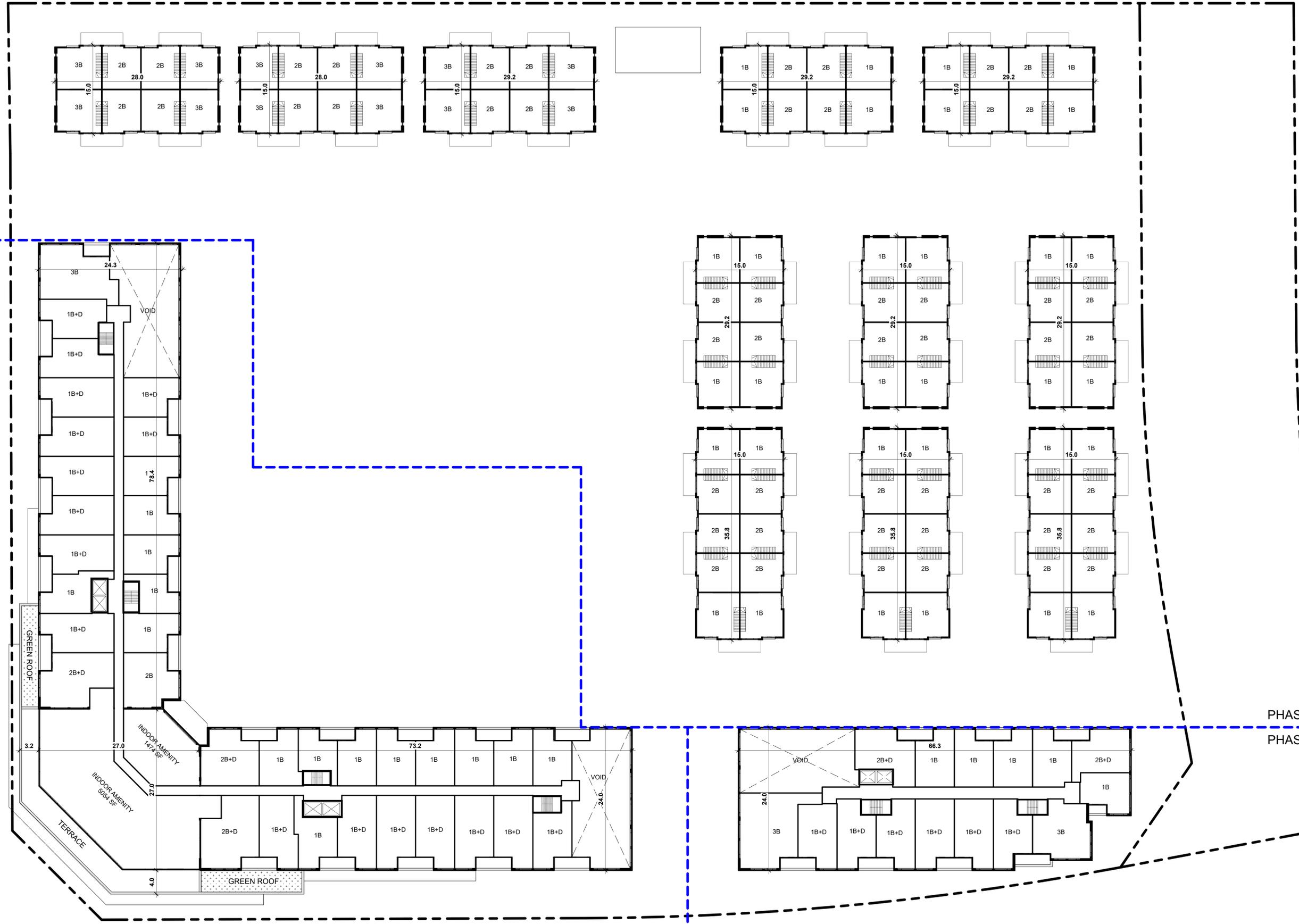
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PHASE 1
PHASE 2



PHASE 1
PHASE 3

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2ND FLOOR PLAN
PHASE 1, 2, 3

No.
A105

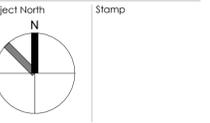
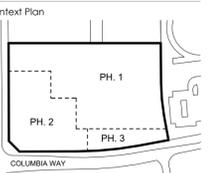
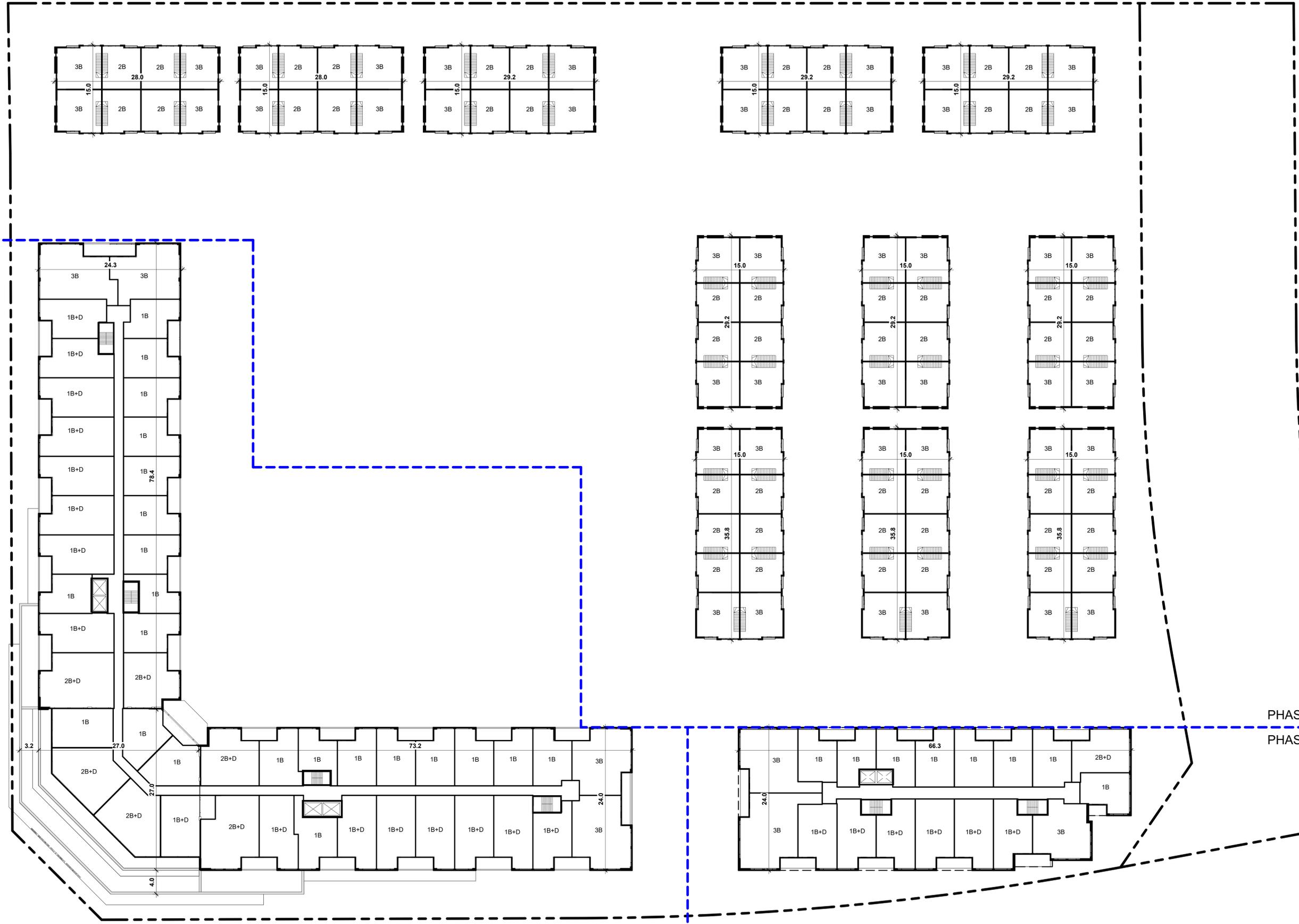
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3RD FLOOR PLAN
PHASE 1, 2, 3

No.
A106

PHASE 2
PHASE 3

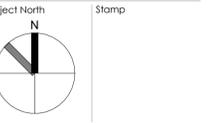
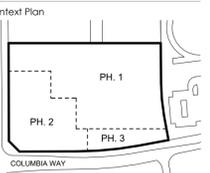
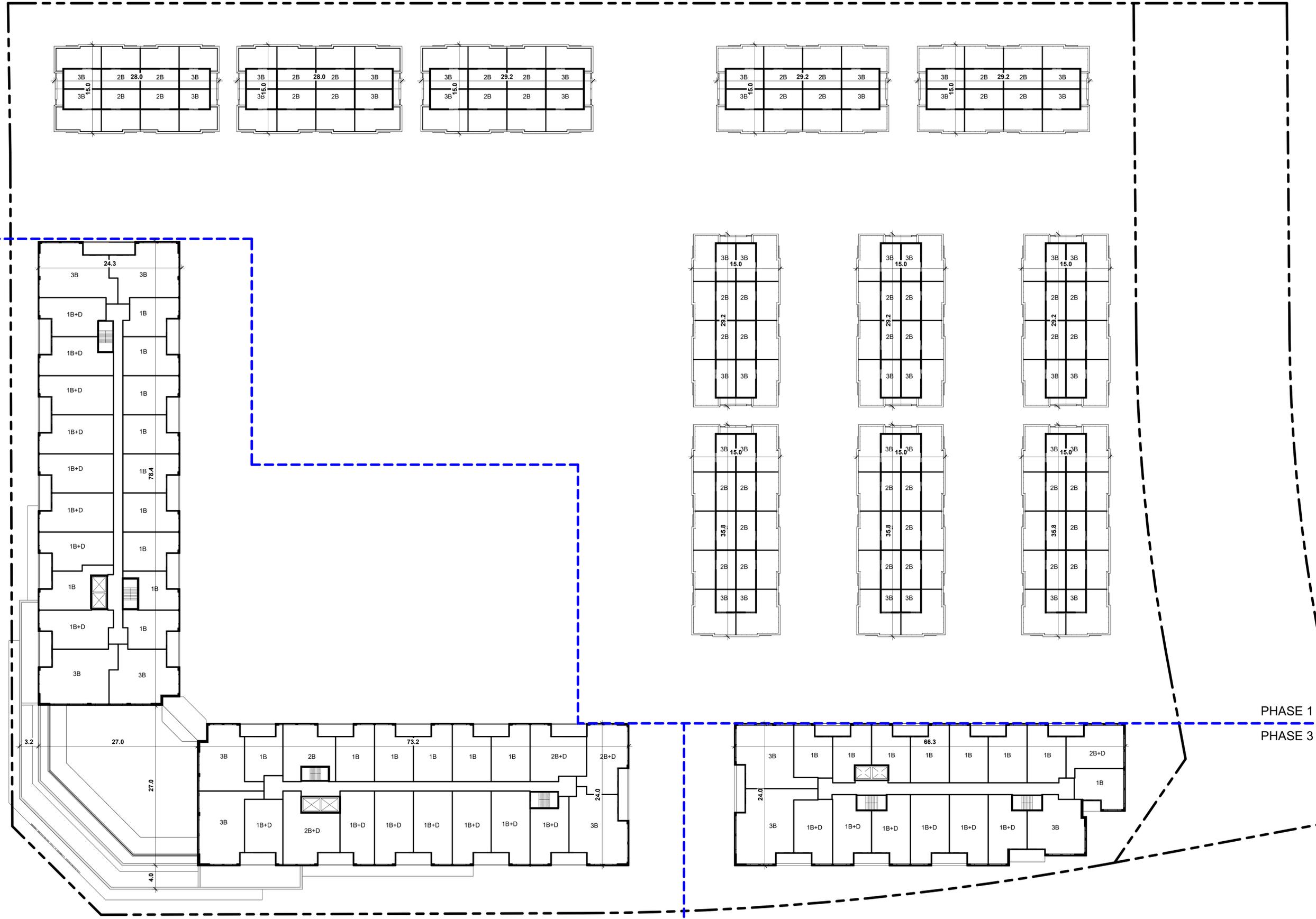
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PHASE 1
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4TH FLOOR PLAN
PHASE 1, 2, 3

No.
A107

PHASE 2
PHASE 3

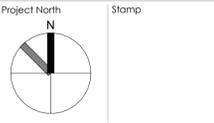
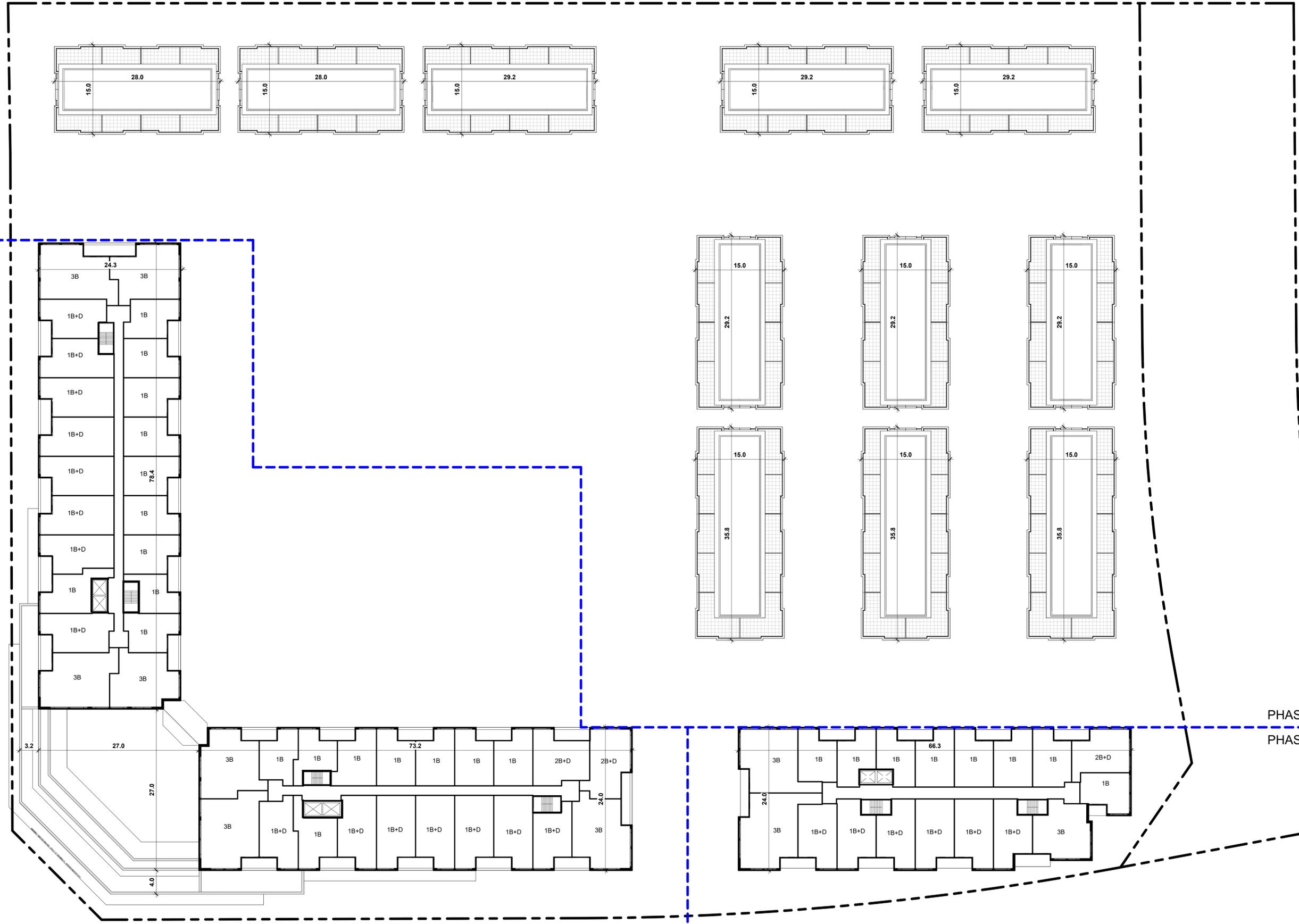
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Drawn By:
Title

5TH FLOOR PLAN
PHASE 1, 2, 3

No.
A108

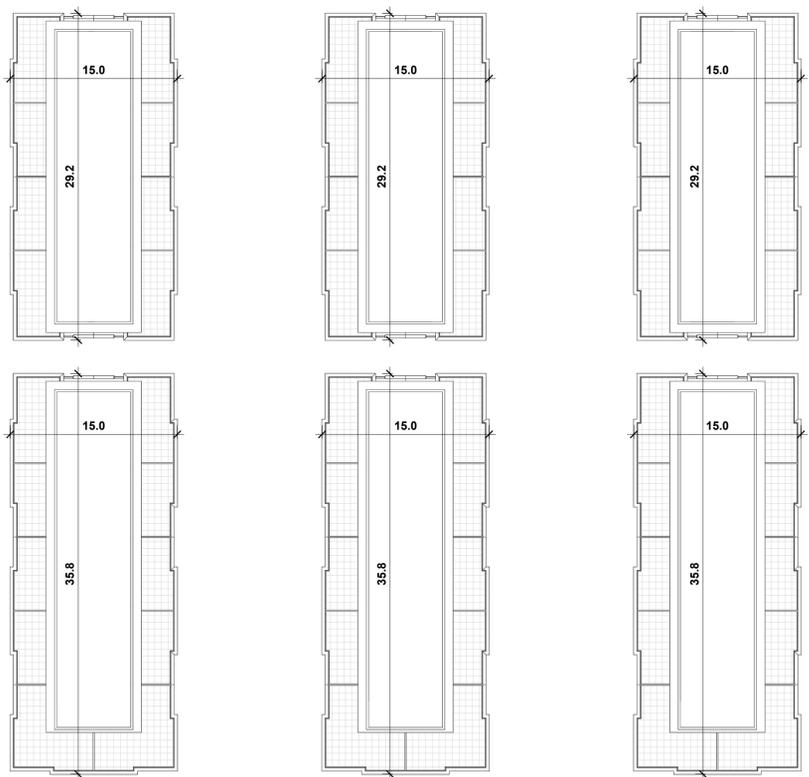
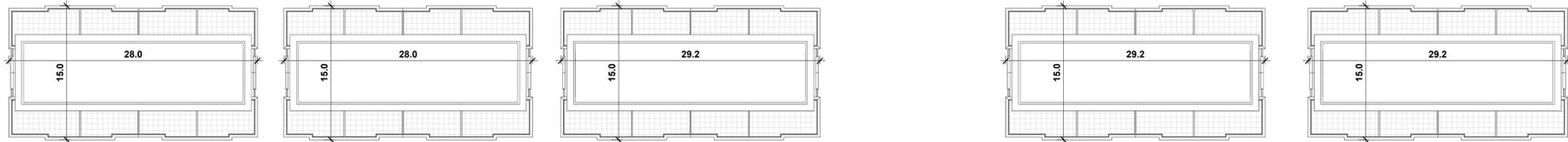
PHASE 2
PHASE 3

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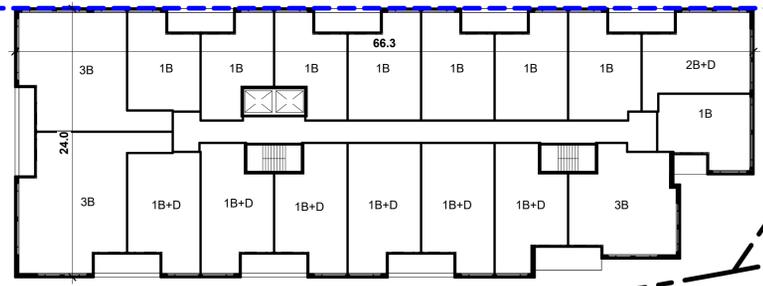
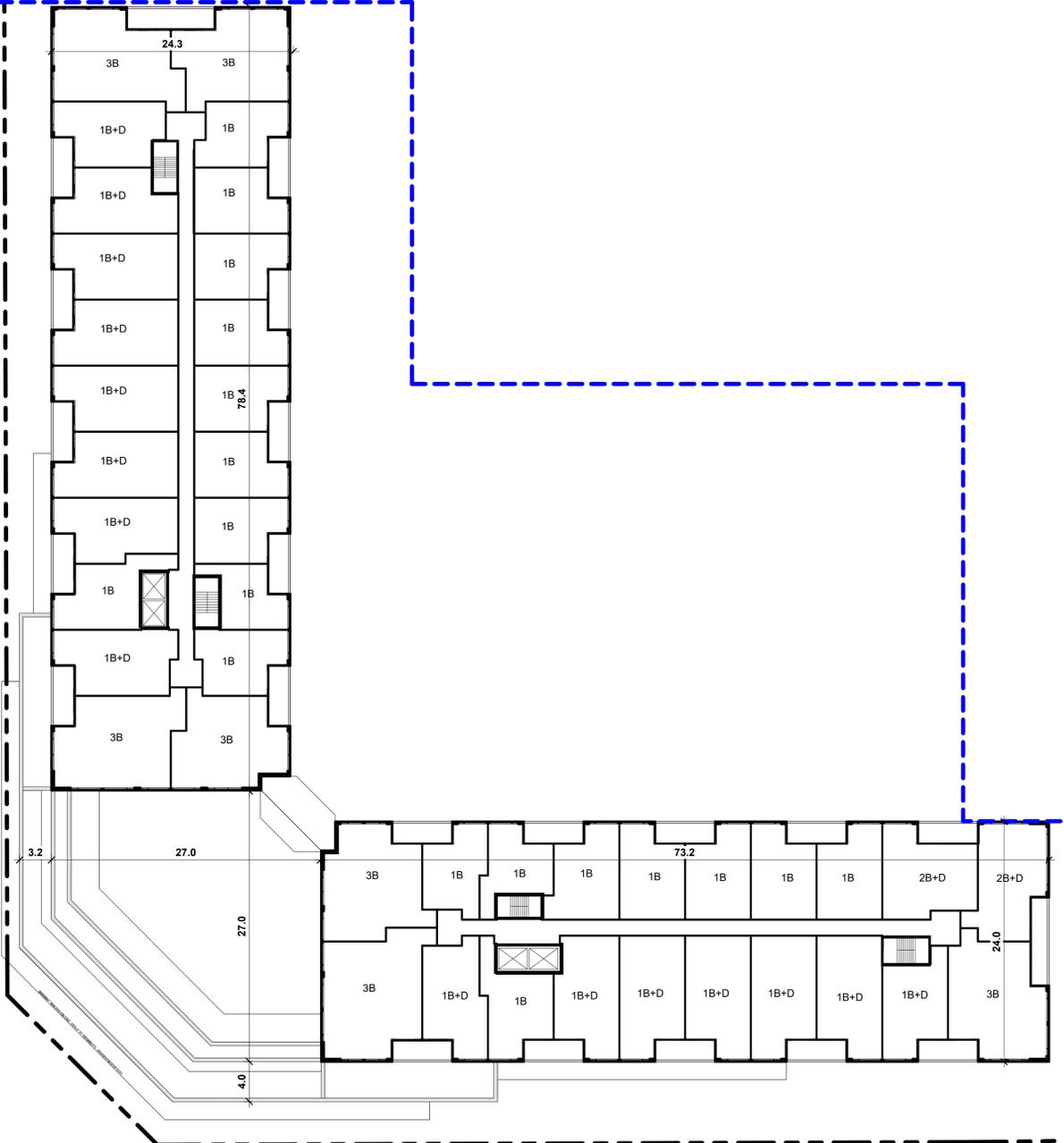
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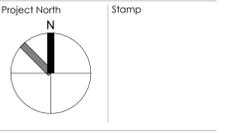
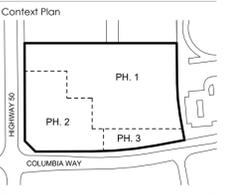
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PHASE 1
PHASE 2



PHASE 1
PHASE 3



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Title	

6TH FLOOR PLAN
PHASE 1, 2, 3

PHASE 2
PHASE 3

No.

A109

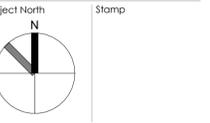
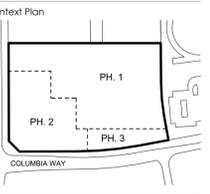
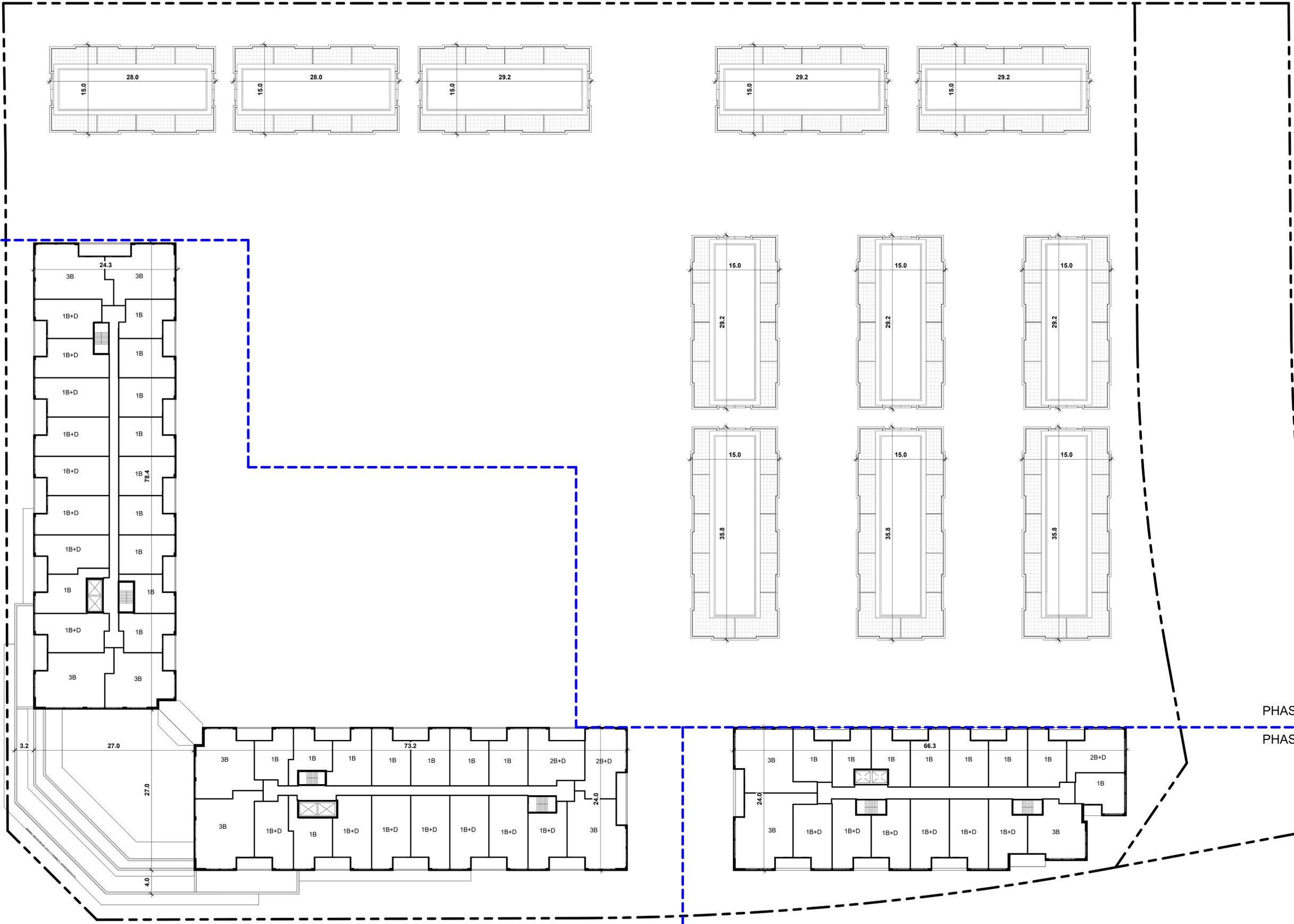
COLUMBIA SQUARE

BOLTON, ONTARIO

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No.	Description	Date
1	ISSUED FOR OPA	2023/12/15

PHASE 1
PHASE 2



Clients
Columbia Square Inc.

KFA
architects + planners inc.
197 CAROLINA AVE - SUITE 500
TORONTO, ON M5T 2G8
416.433.6236 - Tele/Fax
www.kfastructure.com

Project No.:	20065
Scale:	1 : 300
Issue Date:	12/01/23
Drawn By:	
Title	

7TH FLOOR PLAN
PHASE 1, 2, 3

No.
A110

PHASE 2
PHASE 3

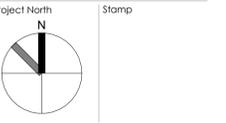
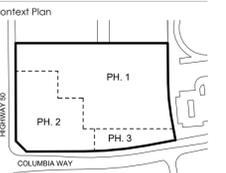
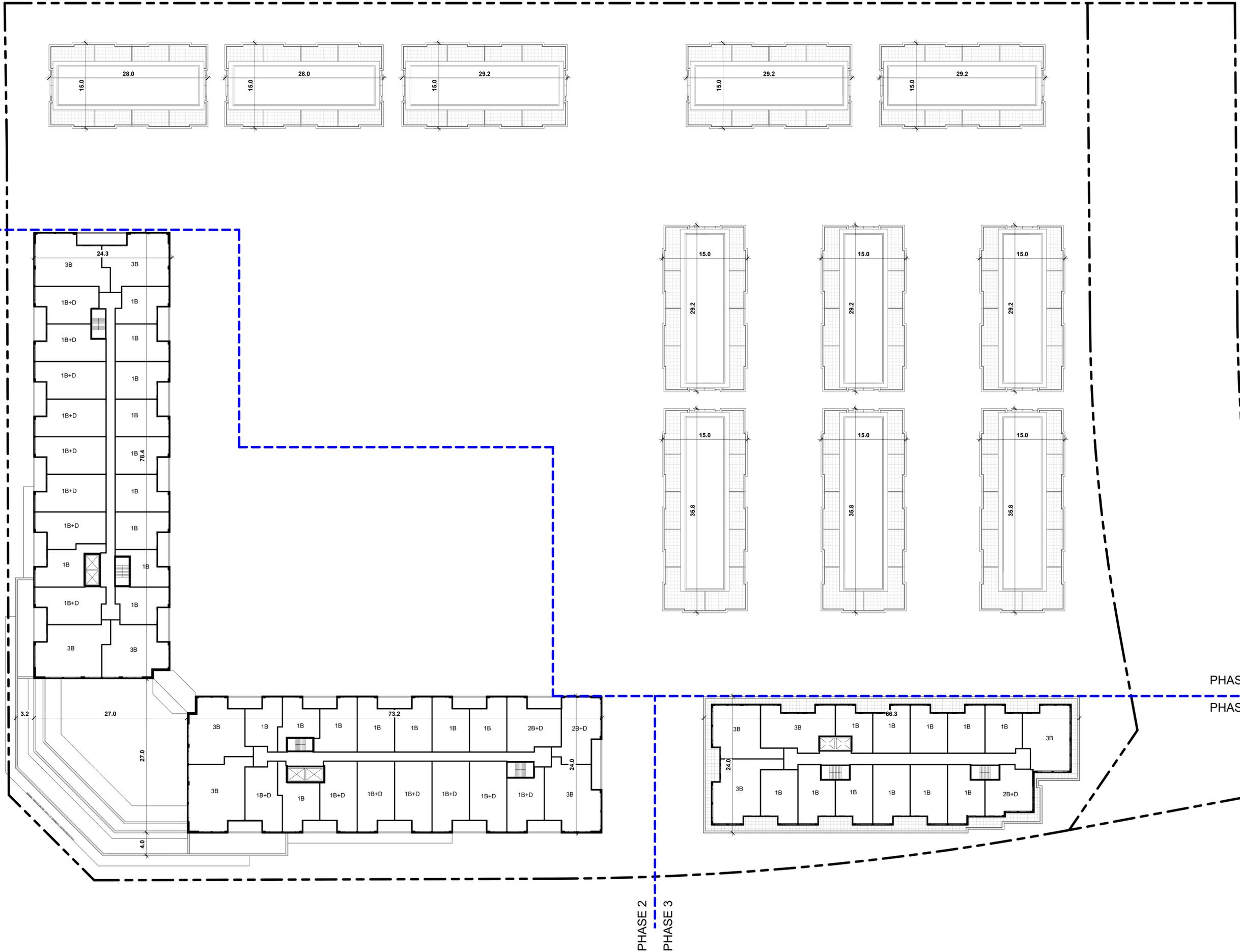
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No.	Description	Date
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PHASE 1
PHASE 2



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Issue Date:	12/01/23
Drawn By:	
Title	

8TH FLOOR PLAN PHASE 1, 2, 3

No.
A111

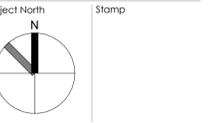
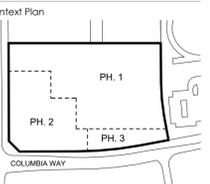
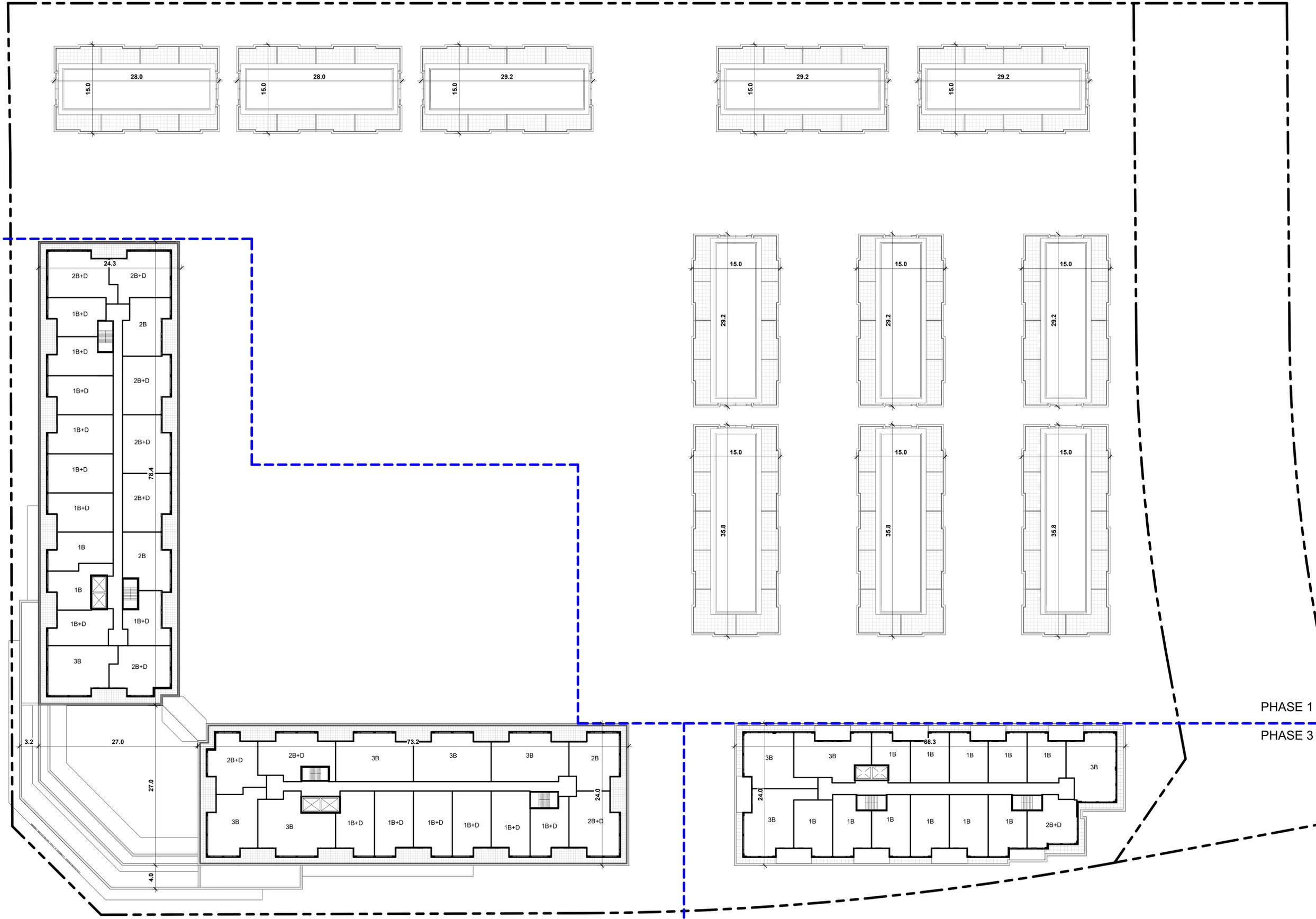
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No.	Description	Date
1	ISSUED FOR OPA	2023/12/15

PHASE 1
PHASE 2



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Project No.:	20065
Scale:	1 : 300
Issue Date:	12/01/23
Drawn By:	
Title	

9TH FLOOR PLAN
PHASE 1, 2, 3

No.
A112

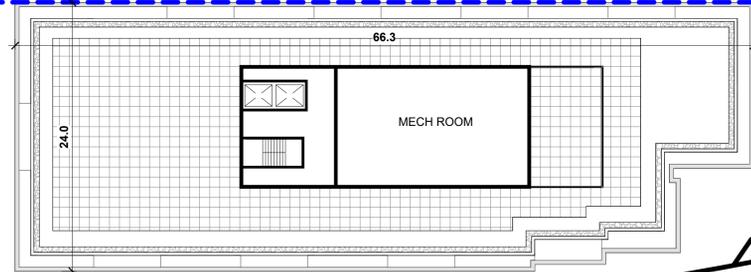
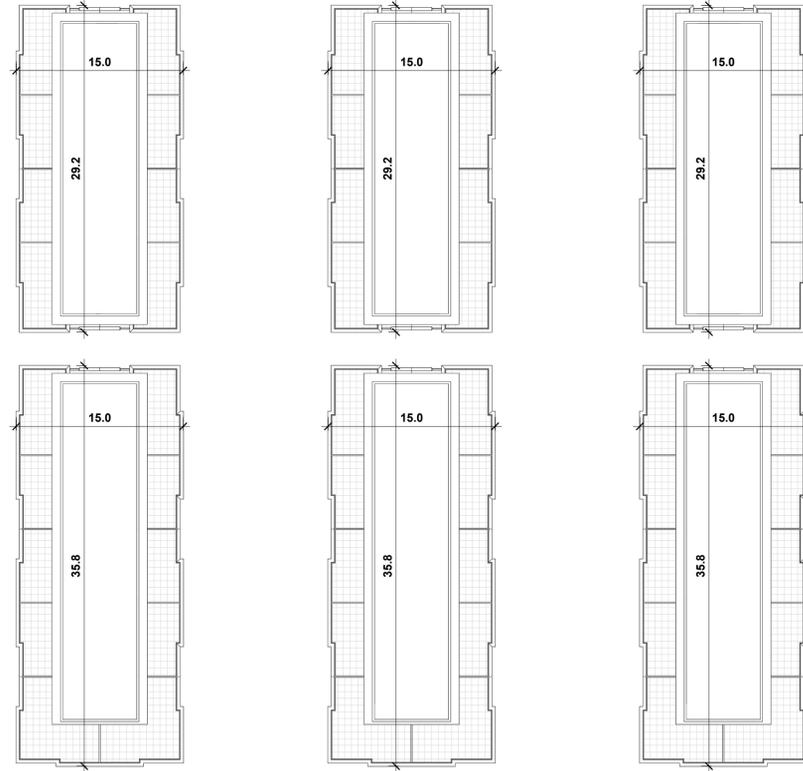
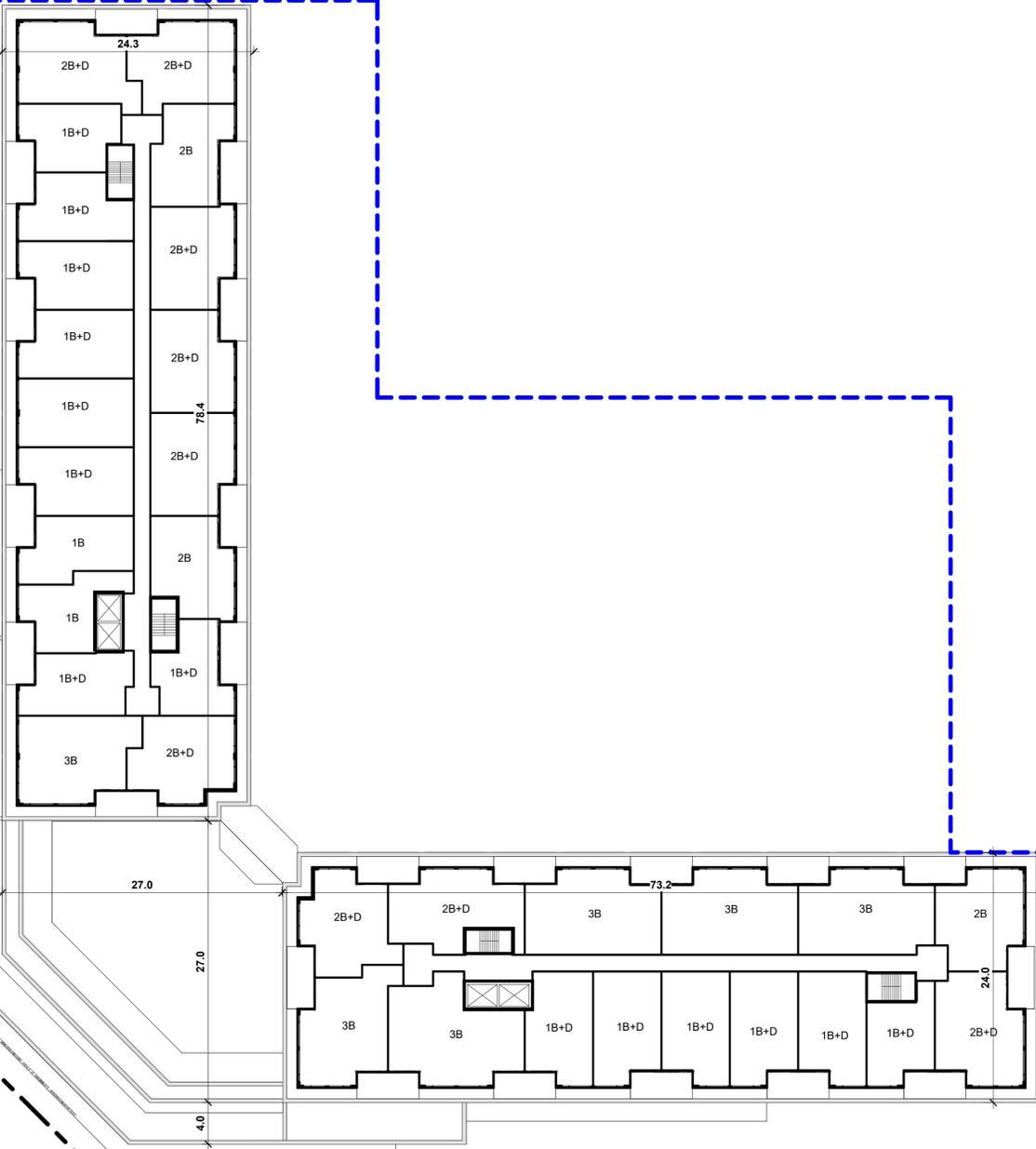
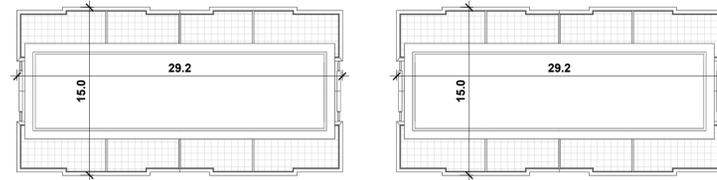
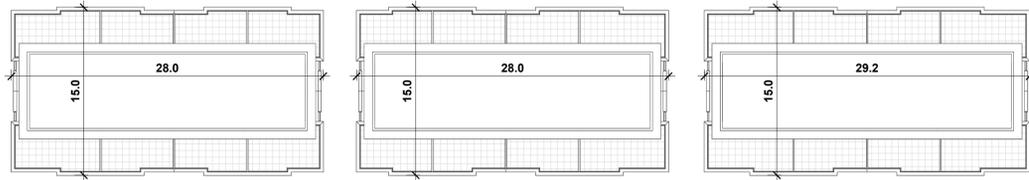
PHASE 2
PHASE 3

COLUMBIA SQUARE

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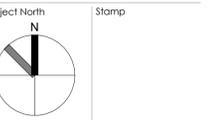
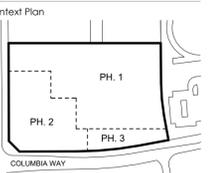
No.	Description	Date
1	ISSUED FOR OPA	2023/12/15



PHASE 1
PHASE 2

PHASE 1
PHASE 3

PHASE 2
PHASE 3



Clients
Columbia Square Inc.



Project No.: 20065
Scale: 1 : 300
Issue Date: 12/01/23
Drawn By:
Title

10TH FLOOR PLAN
PHASE 1, 2, 3

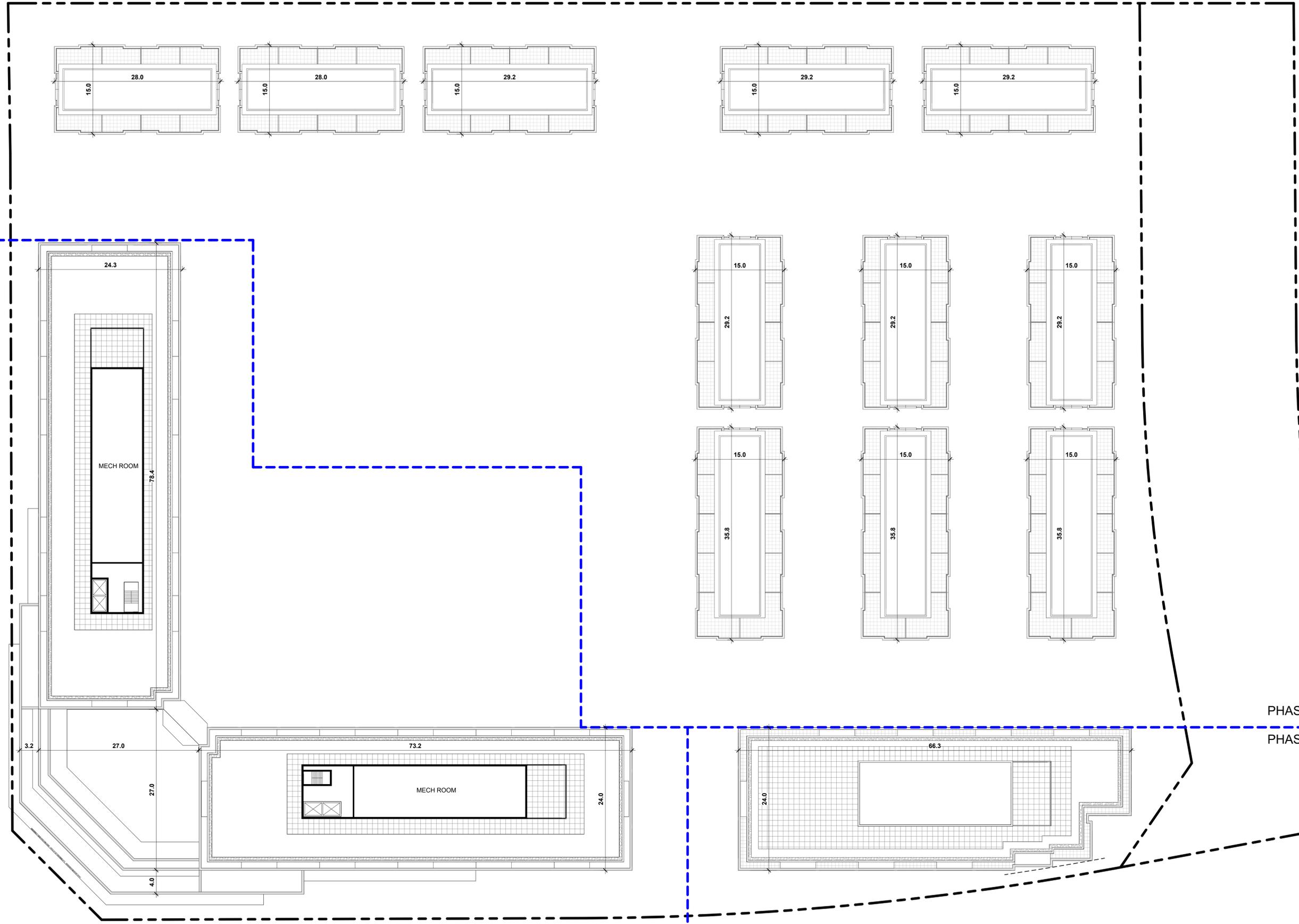
No.
A113

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BOLTON, ONTARIO

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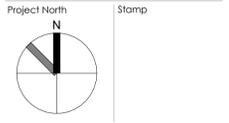
No.	Description	Date
1	ISSUED FOR OPA	2023/12/15

PHASE 1
PHASE 2



PHASE 2
PHASE 3

PHASE 1
PHASE 3



Clients
Columbia Square Inc.



Project No.:	20065
Scale:	1 : 300
Issue Date:	11/21/2023
Drawn By:	
Title	

MECH PH FLOOR
PLAN PHASE 1, 2, 3

No.

A114

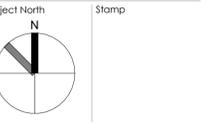
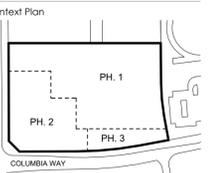
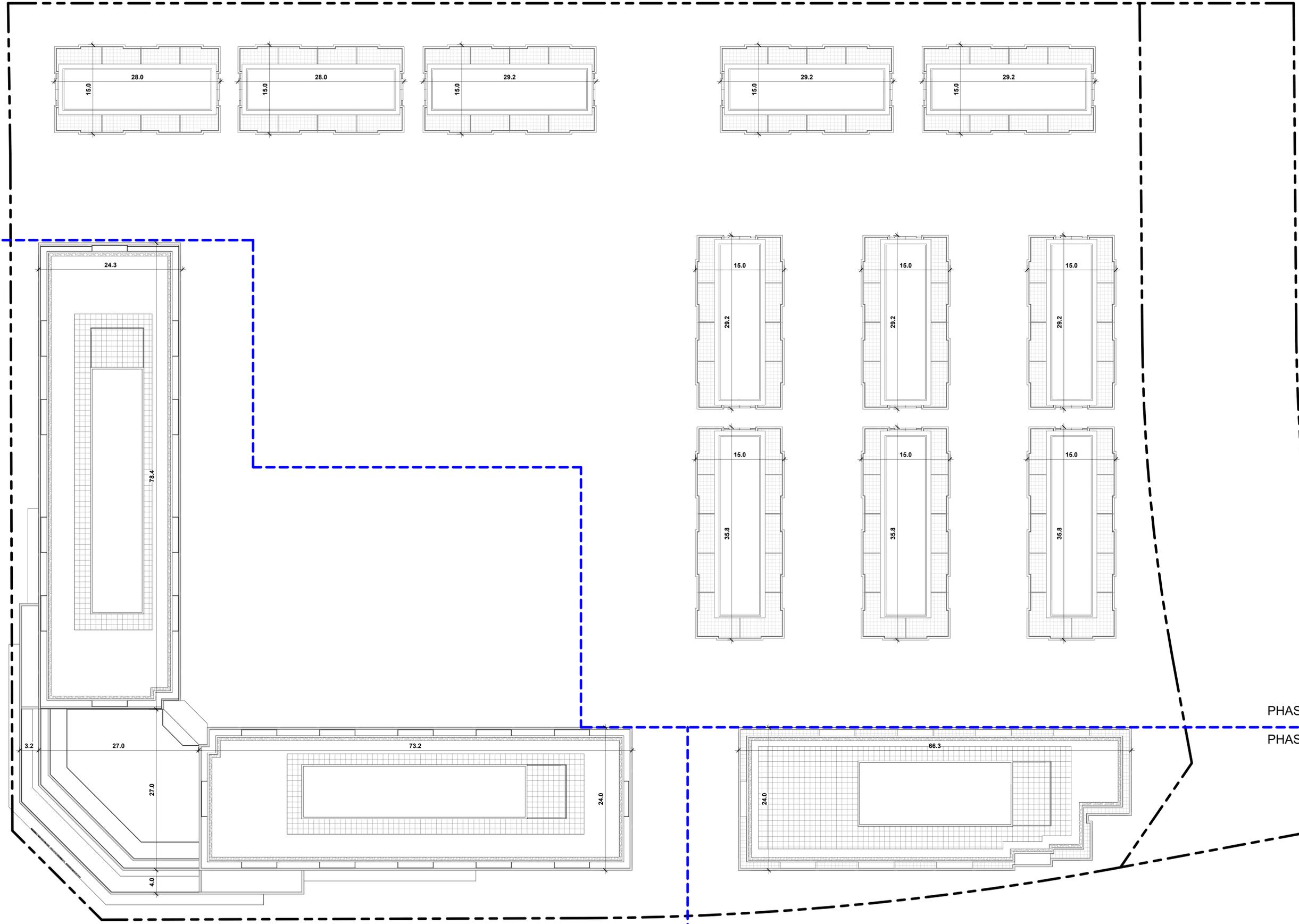
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BOLTON, ONTARIO

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No.	Description	Date
1	ISSUED FOR OPA	2023/12/15

PHASE 1
PHASE 2



Clients
Columbia Square Inc.



Project No.: 20065
Scale: 1 : 300
Issue Date: 11/21/2023
Drawn By:
Title

ROOF PLAN PHASE
1, 2, 3

No.
A115

PHASE 2
PHASE 3

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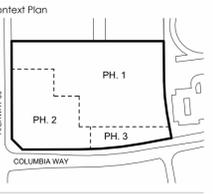
No.	Description	Date
1	ISSUED FOR OPA	2023/12/15



1 Site Elevation - East
1 : 300



2 Site Elevation - North
1 : 300



Project North Stamp

Clients
Columbia Square Inc.

KFA architects + planners inc.
197 SPADINA AVE - SUITE 500
TORONTO - ON M5T 2C8
416.533.6226 - telephone
www.kfaarchitecture.com

Project No.: 20065

Scale: 1 : 300

Issue Date: 07/24/2023

Drawn By:

Title

SITE ELEVATIONS

No.

A201

COLUMBIA SQUARE

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No.	Description	Date
1	ISSUED FOR OPA	2023/12/15

HIGHWAY 50

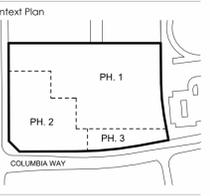
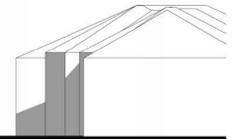
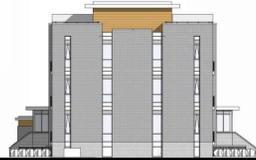
KINGVIEW DR



1 Site Elevation - South
1 : 300

PRIVATE RD 'B'

COLUMBIA WAY



Project North Stamp

Clients
Columbia Square Inc.



187 SPADINA AVE - SUITE 500
TORONTO ON M5T 2C8
416.533.4226 - telephone
www.kfaarchitecture.com

Project No.: 20065

Scale: 1 : 300

Issue Date: 07/24/2023

Drawn By: _____

Title

SITE ELEVATIONS

No.

A202

2 Site Elevation - West
1 : 300

COLUMBIA SQUARE

BOLTON, ONTARIO

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No.	Description	Date
1	ISSUED FOR OPA	2023/12/15



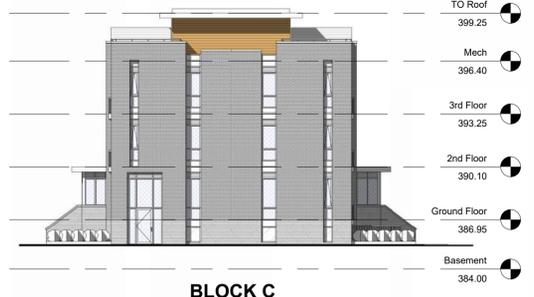
1 West Elevations (Blocks A, B, C)
1 : 200



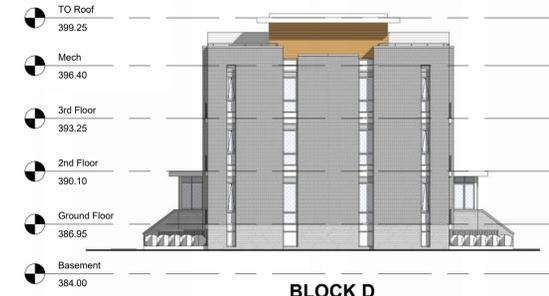
2 South Elevations (Blocks A, B, C)
1 : 200



3 North Elevations (Blocks A, B, C)
1 : 200



4 East Elevation (Block C)
1 : 200



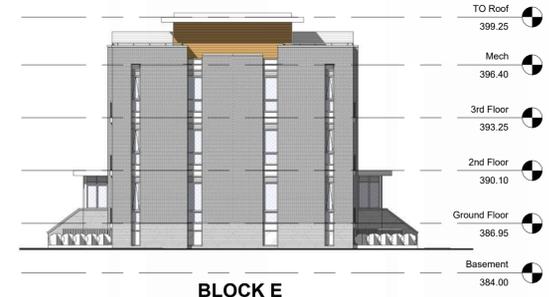
5 East Elevations (Blocks D, E)
1 : 200



6 South Elevations (Blocks D, E)
1 : 200



7 North Elevations (Blocks D, E)
1 : 200



8 West Elevations (Blocks D, E)
1 : 200



Project North

Stamp

Clients
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187 BRADDA AVE - SUITE 500
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Project No.: 20065
Scale: 1 : 200
Issue Date: 07/24/2023
Drawn By:
Title

ELEVATIONS PHASE
1

No.

A203

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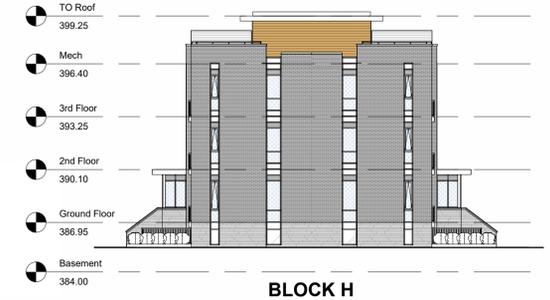
No.	Description	Date
1	ISSUED FOR OPA	2023/12/15



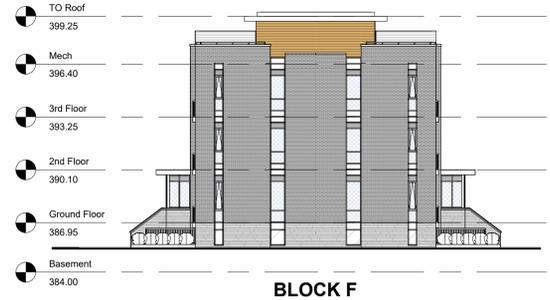
1 South Elevations (Blocks I, J, K)
1 : 200



2 East Elevations (Blocks H, K, G, J, F, I)
1 : 200



3 North Elevations (Blocks F, G, H, I, K)
1 : 200



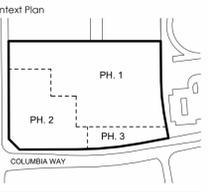
4 South Elevations (Blocks F, G, H)
1 : 200



5 West Elevations (Blocks H, K, G, J, F, I)
1 : 200



6 North Elevation (Block J)
1 : 200



Project North Stamp

Clients
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KFA architects + planners inc.
187 SPADINA AVE - SUITE 500
TORONTO, ON M5T 2C8
416.533.6226 - telephone
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Project No.: 20065

Scale: 1 : 200

Issue Date: 07/24/2023

Drawn By:

Title

ELEVATIONS PHASE
1

No.
A204

COLUMBIA SQUARE

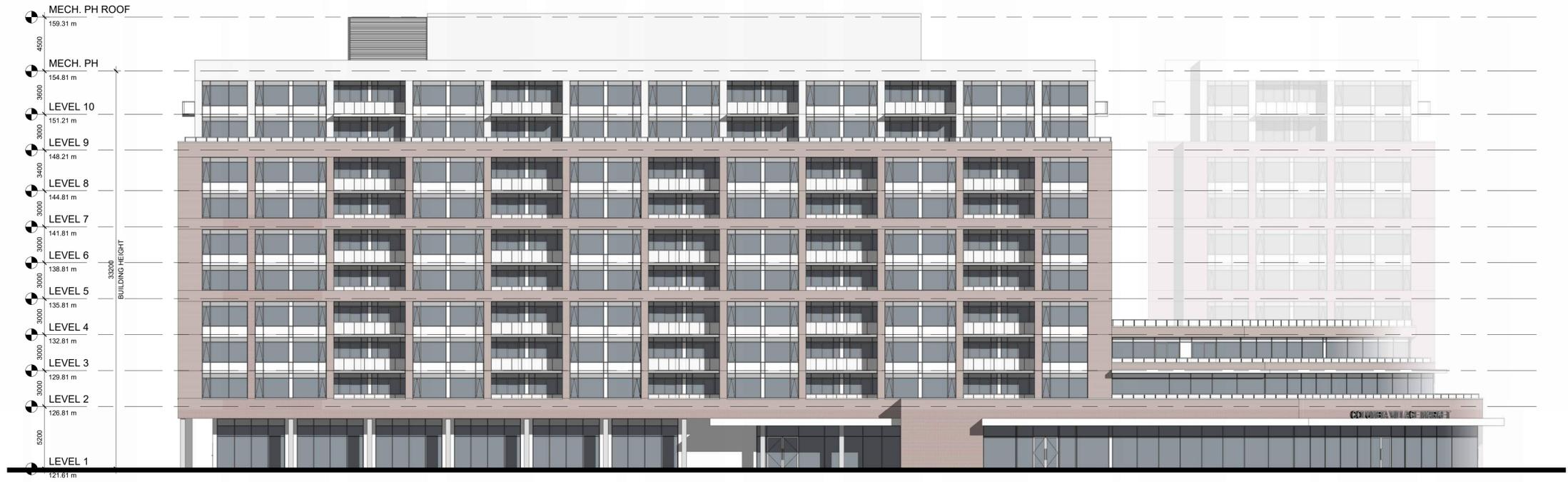
BOLTON, ONTARIO

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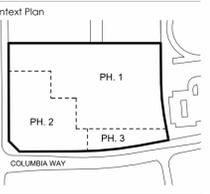
No.	Description	Date
1	ISSUED FOR OPA	2023/12/15



1 South
1 : 200



2 West
1 : 200



Project North Stamp

Clients
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KFA architects + planners inc.
187 SPADINA AVE - SUITE 500
TORONTO, ON M5S 2E8
416.533.6226 - website
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Issue Date: 07/24/2023
Drawn By:
Title

ELEVATIONS PHASE 2

No.
A205

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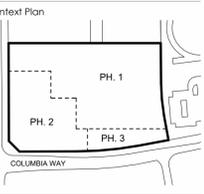
No.	Description	Date
1	ISSUED FOR OPA	2023/12/15



1 North
1 : 200



2 East
1 : 200



Project North Stamp

Clients
Columbia Square Inc.



Project No.: 20065
Scale: 1 : 200
Issue Date: 07/24/2023
Drawn By:
Title

ELEVATIONS PHASE
2

No.

A206

COLUMBIA SQUARE

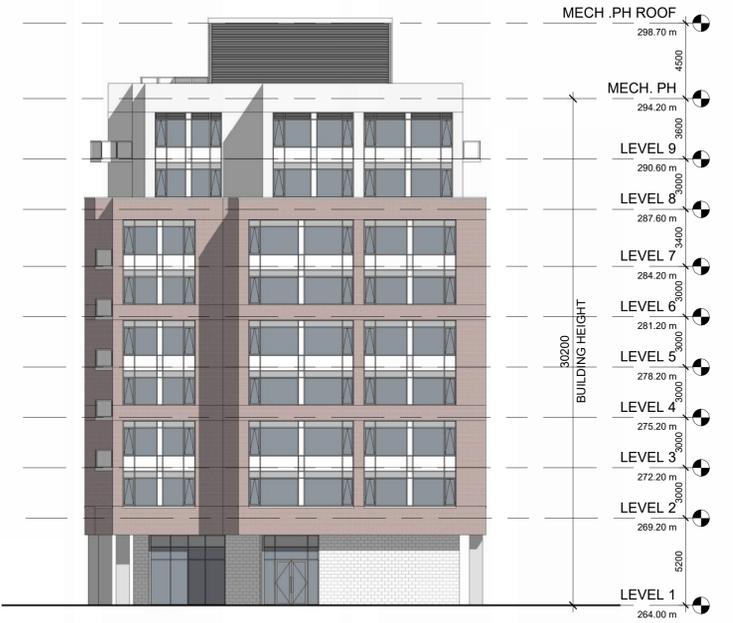
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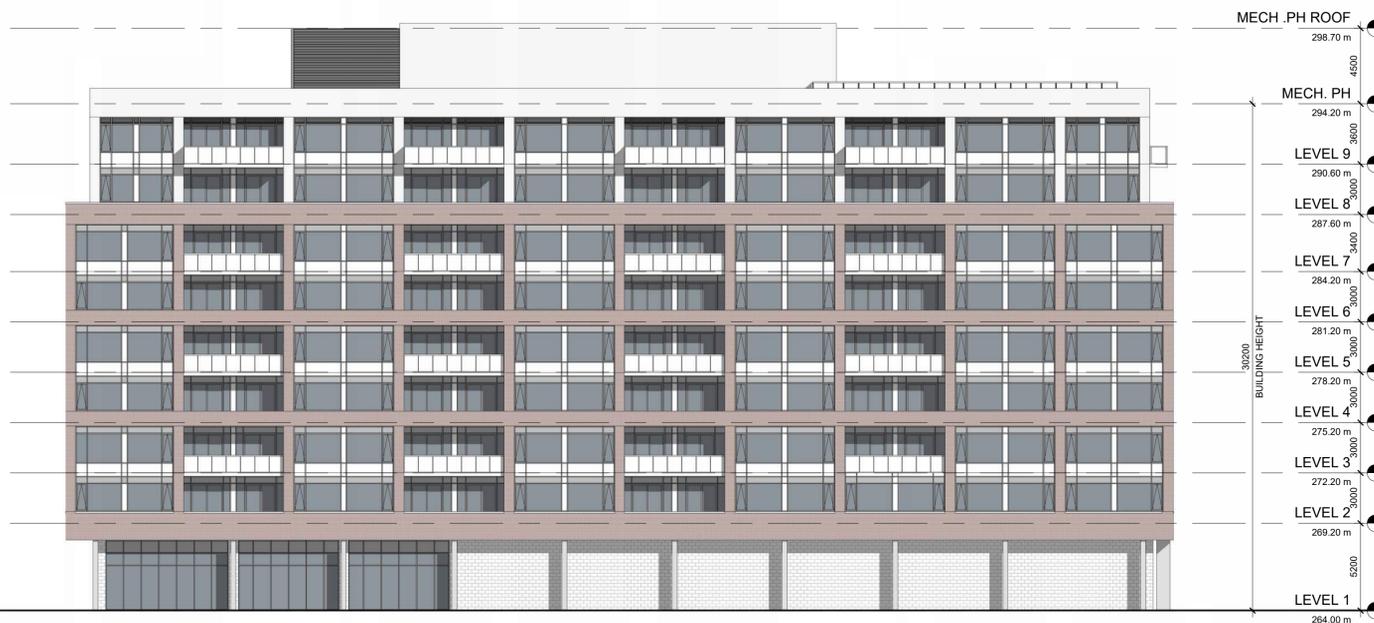
No.	Description	Date
1	ISSUED FOR OPA	2023/12/15



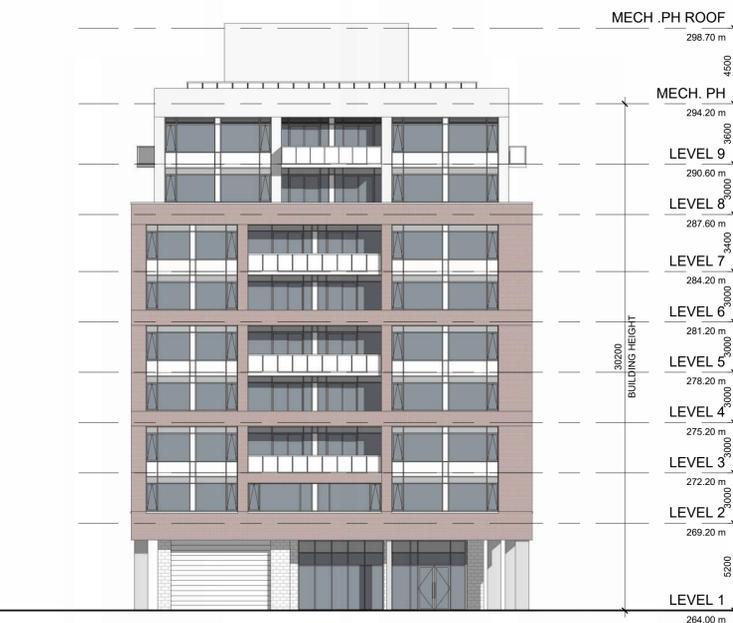
1 South Elevation
1 : 200



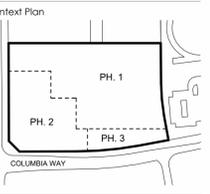
2 East Elevation
1 : 200



3 North Elevation
1 : 200



4 West Elevation
1 : 200



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architects + planners inc.

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TORONTO, ON M4S 1A8
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www.kfaarchitects.com

Project No.: 20065
Scale: 1 : 200
Issue Date: 07/24/2023
Drawn By:
Title

ELEVATIONS PHASE
3

APPENDIX B

ROAD TRAFFIC DATA

Date: May 5, 2021
 From: Greg Dennis, Valcoustics Canada Ltd.
 Re: Traffic Data Request – Highway 50 (0.6 km South of Emil Kolb Parkway)

Greg,
 As per your request, we are providing the following 2019 traffic data:

	Existing	Ultimate
24 Hour Traffic Volume	12,843	16,200
# of Lanes	2	2
Day/Night Split	90/10	90/10
Day Trucks (% of Total Volume)	1.85% Medium 0.68% Heavy	1.85% Medium 0.68% Heavy
Night Trucks (% of Total Volume)	1.75% Medium 0.31% Heavy	1.75% Medium 0.31% Heavy
Right-of-Way Width	36 metres	
Posted Speed Limit	60 km/h	

Please note:

1. The current volume is not the Annual Average Daily Traffic, but the averaged raw volumes over three data collection days. If you need the Annual Average Traffic Volume, please visit the Peel Open Data website below:
<http://opendata.peelregion.ca/data-categories/transportation/traffic-count-stations.aspx>
2. The ultimate volume is the planned volume during a level of service 'D' where a 2 second vehicle headway and a volume to capacity ratio of 0.9 is assumed. Traffic signals and hourly variations in traffic are also incorporated into the ultimate volume.

If you require further assistance, please contact me at robert.jay@peelregion.ca.

Regards,

Robbie Jay
 Transportation Planner, Transportation System Planning
 Transportation Division, Public Works Services, Region of Peel
 10 Peel Centre Drive, Suite B, 4th Floor
 Brampton, ON L6T 4B9
 W: (905) 791-7800 x6456
 E: robert.jay@peelregion.ca

Greg Dennis

From: Saha, Ucchas <ucchas.saha@peelregion.ca>
Sent: November 7, 2023 1:14 PM
To: Greg Dennis
Cc: Nevland, Erik; ZZL-Transportation Planning Data
Subject: RE: Traffic Data Request - Hwy 50 & Columbia Way, Caledon-Noise (VCL File: 1210047.000)

Hello Greg,

Thanks for reaching out. Just wanted to confirm that the traffic data from 2021 is still valid.

Regards,

Ucchas Saha, MASC
Transportation Planner, Transportation Planning
Transportation Division, Public Works
Region of Peel
10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON L6T 4B9
905-791-7800 x8906 | ucchas.saha@peelregion.ca



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From: Greg Dennis <greg@valcoustics.com>
Sent: November 7, 2023 8:56 AM
To: Nevland, Erik <erik.nevland@peelregion.ca>
Cc: yiyang.hu@peelregion.ca
Subject: RE: Traffic Data Request - Hwy 50 & Columbia Way, Caledon-Noise (VCL File: 1210047.000)

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Erik,

We are updating a noise study for a proposed residential development at the northeast corner of the intersection of Hwy 50 & Columbia Way. Can you confirm if the attached traffic data from 2021 is still valid?

Thank you,

Greg Dennis, P.Eng.
Acoustical Engineer



30 Wertheim Court, Unit 25
Richmond Hill, Ontario
Canada L4B 1B9
Tel: 905-764-5223 ext. 236
Fax: 905-764-6813
greg@valcoustics.com

From: Jay, Robert <robert.jay@peelregion.ca>
Sent: Wednesday, May 5, 2021 11:25 AM
To: Greg Dennis (VCL) <greg@valcoustics.com>
Cc: Kuczynski, Roman <roman.kuczynski@peelregion.ca>; Chen, Tiggy <tiggy.chen@peelregion.ca>
Subject: RE: Traffic Data Request - Hwy 50 & Columbia Way, Caledon-Noise (VCL File: 1210047.000)

Hi Greg,

As requested, I have attached our 2019 traffic data for Highway 50 north of Columbia Way.

Thank you,

Robbie Jay

Transportation Planner
Transportation System Planning
Region of Peel
10 Peel Centre Drive, Suite B, 4th Floor
Brampton, ON L6T 4B9
(905) 791-7800 x6456
robert.jay@peelregion.ca

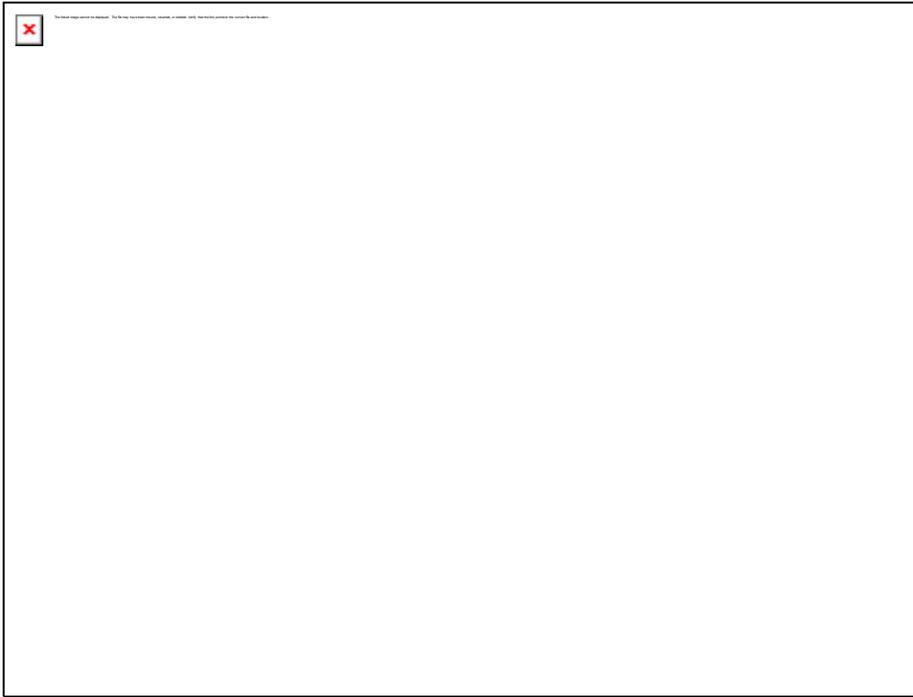


From: Greg Dennis (VCL) <greg@valcoustics.com>
Sent: May 5, 2021 10:40 AM
To: Kuczynski, Roman <roman.kuczynski@peelregion.ca>
Cc: Chen, Tiggy <tiggy.chen@peelregion.ca>
Subject: Traffic Data Request - Hwy 50 & Columbia Way, Caledon-Noise (VCL File: 1210047.000)

CAUTION: EXTERNAL MAIL. DO NOT CLICK ON LINKS OR OPEN ATTACHMENTS YOU DO NOT TRUST.

Hi Roman,

I am working on a noise study for a proposed mixed-use development at the northeast corner of Hwy 50 and Columbia Way, Caledon.



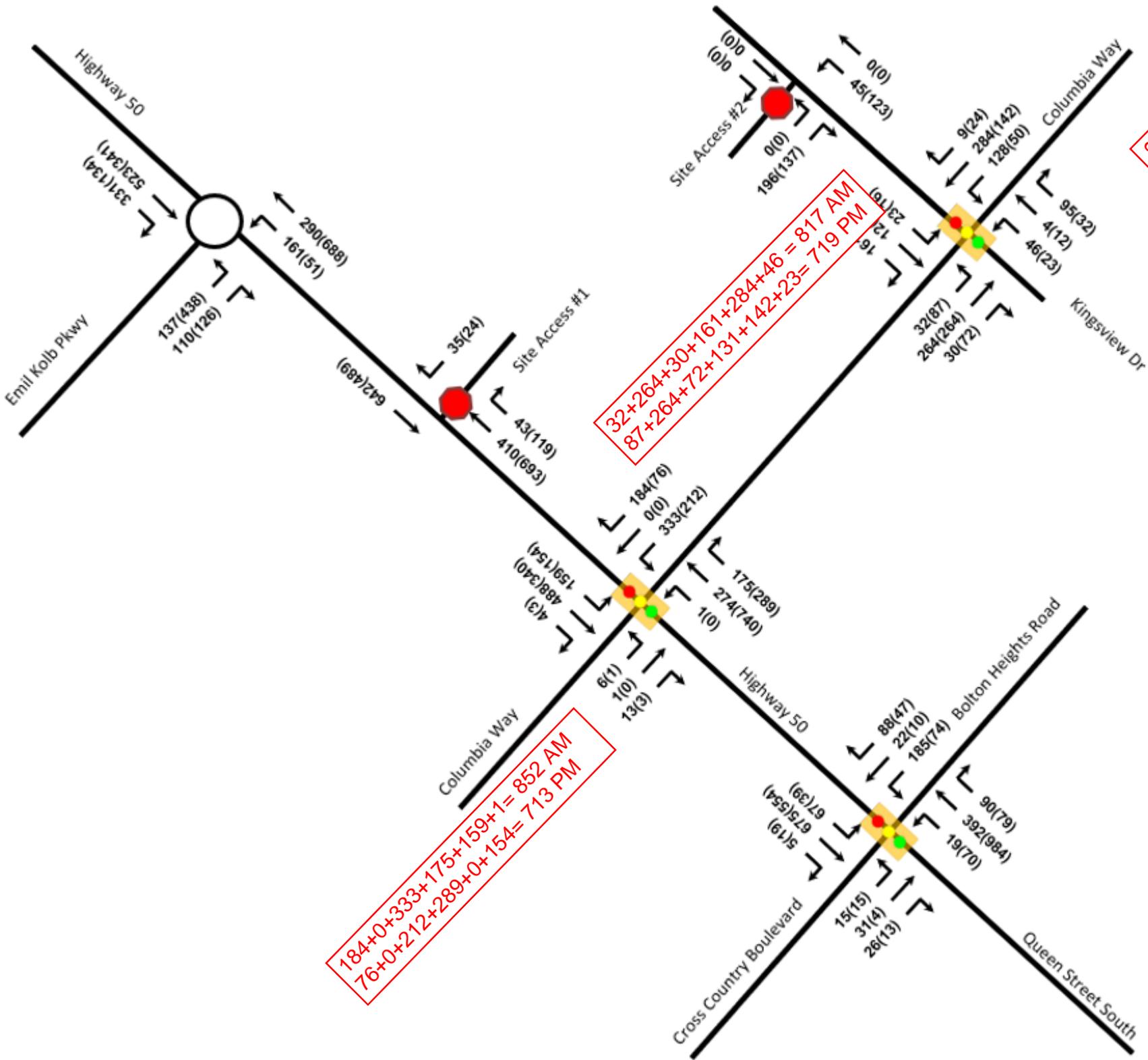
Can you please provide ultimate traffic data for Hwy 50, north of Columbia Way?

Thank you,

Greg Dennis, P.Eng.
Acoustical Engineer



30 Wertheim Court, Unit 25
Richmond Hill, Ontario
Canada L4B 1B9
Tel: 905-764-5223 ext. 236
Fax: 905-764-6813
greg@valcoustics.com



$32+264+30+161+284+46 = 817$ AM
 $87+264+72+131+142+23 = 719$ PM

$184+0+333+175+159+1 = 852$ AM
 $76+0+212+289+0+154 = 713$ PM

$9+4+32+161+12+23 = 241$ AM
 $87+12+24+113+8+16 = 260$ PM

LEGEND
 # AM Volume
 (##) PM Volume



Report-1.1		Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway														
		Direction : North Road :														
		Dates : 1 5/7/2019														
Classes ----->		Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9	Class-10	Class-11	Class-12	Class-13	Total	
00:00	0:15		12	2											14	0.2%
0:15	0:30		5						2						7	0.1%
0:30	0:45		13												13	0.2%
0:45	1:00			1											1	0.0%
00:00	1:00		30	3					2						35	0.5%
1:00	1:15		7	1											8	0.1%
1:15	1:30		2	1											3	0.0%
1:30	1:45		4	1											5	0.1%
1:45	2:00		6												6	0.1%
1:00	2:00		19	3											22	0.3%
2:00	2:15		7	1											8	0.1%
2:15	2:30		3												3	0.0%
2:30	2:45		4												4	0.1%
2:45	3:00		3	2											5	0.1%
2:00	3:00		17	3											20	0.3%
3:00	3:15		2	1											3	0.0%
3:15	3:30		1	2											3	0.0%
3:30	3:45		1												1	0.0%
3:45	4:00		2												2	0.0%
3:00	4:00		6	3											9	0.1%
4:00	4:15		4												4	0.1%
4:15	4:30		5	1											6	0.1%
4:30	4:45		3	2											5	0.1%
4:45	5:00		6	1											7	0.1%
4:00	5:00		18	4											22	0.3%
5:00	5:15		4	1	1										6	0.1%
5:15	5:30	1	9	3		1									14	0.2%
5:30	5:45		13	3											16	0.2%
5:45	6:00		22	4		1									27	0.4%
5:00	6:00	1	48	11	1	2									63	1.0%
6:00	6:15		15	7											22	0.3%
6:15	6:30		25	3											28	0.4%
6:30	6:45		31	8	1	3									43	0.7%
6:45	7:00		47	11	2	2									62	0.9%
6:00	7:00		118	29	3	5									155	2.4%
7:00	7:15		44	11	1	2									58	0.9%
7:15	7:30		57	15											72	1.1%
7:30	7:45		71	8	2	1									82	1.3%
7:45	8:00	1	66	15	4	1	1		2						90	1.4%
7:00	8:00	1	238	49	7	4	1		2						302	4.6%
8:00	8:15		71	13	2	1									87	1.3%
8:15	8:30		59	14	7	3	1								84	1.3%
8:30	8:45		77	20	3	4			1						105	1.6%
8:45	9:00		69	8	3	2									82	1.3%
8:00	9:00		276	55	15	10	1		1						358	5.5%
9:00	9:15		45	12	1	2									60	0.9%
9:15	9:30		44	7											51	0.8%
9:30	9:45	1	52	14		2				1					70	1.1%
9:45	10:00		60	16	1	2	1								80	1.2%
9:00	10:00	1	201	49	2	6	1			1					261	4.0%
10:00	10:15		41	17	1	4									63	1.0%
10:15	10:30		45	14		2	1								62	0.9%
10:30	10:45		43	13		2	2								60	0.9%
10:45	11:00		57	10	1	2									70	1.1%
10:00	11:00		186	54	2	10	3								255	3.9%
11:00	11:15		36	13	2	3			4						58	0.9%
11:15	11:30	1	55	14	1	3				1					75	1.1%
11:30	11:45	1	59	9	1	4	1		2						77	1.2%
11:45	12:00	1	74	12	1		1								89	1.4%
11:00	12:00	3	224	48	5	10	2		6	1					299	4.6%

12:00	12:15	58	22	2	3					85	1.3%
12:15	12:30	70	11	1	4					86	1.3%
12:30	12:45	73	14	1	3					91	1.4%
12:45	13:00	69	13	1	3					86	1.3%
12:00	13:00	270	60	5	13					348	5.3%
13:00	13:15	79	16	1	6	1			1	104	1.6%
13:15	13:30	61	15	2	1					79	1.2%
13:30	13:45	89	14	2				1		106	1.6%
13:45	14:00	81	20	1	1	1				104	1.6%
13:00	14:00	310	65	6	8	2		1	1	393	6.0%
14:00	14:15	62	14	2	3					81	1.2%
14:15	14:30	1	87	14	4				1	107	1.6%
14:30	14:45		96	18	1	2	1			118	1.8%
14:45	15:00	1	85	29		2			2	119	1.8%
14:00	15:00	2	330	75	7	7	1		3	425	6.5%
15:00	15:15		87	22	2	5	2			118	1.8%
15:15	15:30	3	115	29	11	1	1			160	2.4%
15:30	15:45	1	133	33	1	1				169	2.6%
15:45	16:00		121	23	1	3				148	2.3%
15:00	16:00	4	456	107	15	10	3			595	9.1%
16:00	16:15		114	25	2	3			1	145	2.2%
16:15	16:30		124	26	2	3				155	2.4%
16:30	16:45		121	26		2				149	2.3%
16:45	17:00	1	117	29		1	1		1	150	2.3%
16:00	17:00	1	476	106	4	9	1		1	599	9.2%
17:00	17:15	1	139	38	1	1	2			182	2.8%
17:15	17:30		112	20		1			1	134	2.1%
17:30	17:45		110	35	1		1			147	2.3%
17:45	18:00		114	15		3			1	133	2.0%
17:00	18:00	1	475	108	2	5	3		2	596	9.1%
18:00	18:15		99	22	1					122	1.9%
18:15	18:30	1	140	25		3				169	2.6%
18:30	18:45		93	17		1				111	1.7%
18:45	19:00		94	28	1	1				124	1.9%
18:00	19:00	1	426	92	2	5				526	8.1%
19:00	19:15		91	16		2			1	110	1.7%
19:15	19:30	1	92	15		1			1	110	1.7%
19:30	19:45		92	23		1				116	1.8%
19:45	20:00		94	15		2				111	1.7%
19:00	20:00	1	369	69		6			2	447	6.8%
20:00	20:15	1	75	11						87	1.3%
20:15	20:30		76	10						86	1.3%
20:30	20:45		72	13	2					87	1.3%
20:45	21:00		71	14		1				86	1.3%
20:00	21:00	1	294	48	2	1				346	5.3%
21:00	21:15		52	8		2				62	0.9%
21:15	21:30		53	6		1			1	62	0.9%
21:30	21:45	1	40	6						47	0.7%
21:45	22:00		46	8						54	0.8%
21:00	22:00	1	191	28		3			1	225	3.4%
22:00	22:15		37	6		1				44	0.7%
22:15	22:30		40	3		2				45	0.7%
22:30	22:45		17	3						20	0.3%
22:45	23:00		26	4						30	0.5%
22:00	23:00		120	16		3				139	2.1%
23:00	23:15		17	2						19	0.3%
23:15	23:30		30	4						34	0.5%
23:30	23:45		20	4		1				25	0.4%
23:45	00:00		10	3						13	0.2%
23:00	00:00		77	13		1				91	1.4%
Total		18	5175	1098	78	118	18	21	5	6531	
		0.3%	79.2%	16.8%	1.2%	1.8%	0.3%	0.3%	0.1%		
AM PEAK		1	77	20	7	4	2	4	1	105	
period		5:15	8:30	8:30	8:15	8:30	10:30	11:00	9:30	8:30	
% of class		5.6%	1.5%	1.8%	9.0%	3.4%	11.1%	19.0%	20.0%	1.6%	
PM PEAK		3	140	38	11	6	2	2	1	182	
period		15:15	18:15	17:00	15:15	13:00	15:00	14:45	13:00	17:00	
% of class		16.7%	2.7%	3.5%	14.1%	5.1%	11.1%	9.5%	20.0%	2.8%	

Report-1.2	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway													Total	
	Direction : North Road :														
Dates : 1 5/8/2019													Total		
Classes ----->	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9	Class-10	Class-11	Class-12			Class-13
00:00 0:15		13	1											14	0.2%
0:15 0:30		9												9	0.1%
0:30 0:45		11												11	0.2%
0:45 1:00		9												9	0.1%
00:00 1:00		42	1											43	0.6%
1:00 1:15		8												8	0.1%
1:15 1:30		6	1											7	0.1%
1:30 1:45		5												5	0.1%
1:45 2:00		5			1			1						7	0.1%
1:00 2:00		24	1		1			1						27	0.4%
2:00 2:15		4	1											5	0.1%
2:15 2:30		1	1											2	0.0%
2:30 2:45		5												5	0.1%
2:45 3:00		3												3	0.0%
2:00 3:00		13	2											15	0.2%
3:00 3:15	1	1	2	1										5	0.1%
3:15 3:30		2	1											3	0.0%
3:30 3:45			2											2	0.0%
3:45 4:00		4			1									5	0.1%
3:00 4:00	1	7	5	1	1									15	0.2%
4:00 4:15		1							1					2	0.0%
4:15 4:30		2												2	0.0%
4:30 4:45		5												5	0.1%
4:45 5:00		6	1											7	0.1%
4:00 5:00		14	1						1					16	0.2%
5:00 5:15		6	1											7	0.1%
5:15 5:30	1	8	2	1										12	0.2%
5:30 5:45		18	1		1									20	0.3%
5:45 6:00		24	4											28	0.4%
5:00 6:00	1	56	8	1	1									67	1.0%
6:00 6:15		17	5		2									24	0.4%
6:15 6:30		32	8		3									43	0.6%
6:30 6:45		39	9	1	2									51	0.8%
6:45 7:00		43	9	1	3									56	0.8%
6:00 7:00		131	31	2	10									174	2.6%
7:00 7:15		51	10	3	1	1								66	1.0%
7:15 7:30		47	15		1		1							64	1.0%
7:30 7:45		64	17		3			2						86	1.3%
7:45 8:00		75	12	4	2	1								94	1.4%
7:00 8:00		237	54	7	7	2	1	2						310	4.7%
8:00 8:15		63	13	3	3	1								83	1.2%
8:15 8:30		83	17	4	2	1								107	1.6%
8:30 8:45		79	17	2	2									100	1.5%
8:45 9:00		73	15	4	1				1					94	1.4%
8:00 9:00		298	62	13	8	2			1					384	5.8%
9:00 9:15		56	17	2		1		1						77	1.2%
9:15 9:30	1	45	10		1	1								58	0.9%
9:30 9:45		47	12		1	2								62	0.9%
9:45 10:00		51	10		2	1		1						65	1.0%
9:00 10:00	1	199	49	2	4	5		2						262	3.9%
10:00 10:15		55	11		2			1						69	1.0%
10:15 10:30		51	16	2	1									70	1.1%
10:30 10:45	1	52	7	1	3									64	1.0%
10:45 11:00		56	11	2	3				1					73	1.1%
10:00 11:00	1	214	45	5	9			1	1					276	4.1%
11:00 11:15		54	17	1	1									73	1.1%
11:15 11:30		47	13											60	0.9%
11:30 11:45		58	14		2	1								75	1.1%
11:45 12:00		54	18	1	4				1					78	1.2%
11:00 12:00		213	62	2	7	1			1					286	4.3%

12:00	12:15	73	21									94	1.4%
12:15	12:30	62	18	1	4			1				86	1.3%
12:30	12:45	68	14	1	2			1				86	1.3%
12:45	13:00	61	15		1			2				79	1.2%
12:00	13:00	264	68	2	7			4				345	5.2%
13:00	13:15	71	25	1	1			1				99	1.5%
13:15	13:30	64	13		2			1				80	1.2%
13:30	13:45	62	13	1	1							77	1.2%
13:45	14:00	1	65	17	1	5			1	1		91	1.4%
13:00	14:00	1	262	68	3	9		2	1	1		347	5.2%
14:00	14:15	73	12	2	1							88	1.3%
14:15	14:30	99	19	5	2							125	1.9%
14:30	14:45	1	102	16	2							121	1.8%
14:45	15:00	1	84	25		4						114	1.7%
14:00	15:00	2	358	72	9	7						448	6.7%
15:00	15:15	111	26	2	3							142	2.1%
15:15	15:30	120	24	8	4			1				157	2.4%
15:30	15:45	2	114	27	1	3		2				149	2.2%
15:45	16:00	1	81	20	1	1						104	1.6%
15:00	16:00	3	426	97	12	11		3				552	8.3%
16:00	16:15	116	19	1				2				138	2.1%
16:15	16:30	125	28	1	4	1						159	2.4%
16:30	16:45	1	74	10		1						86	1.3%
16:45	17:00	149	44		2				1	1		197	3.0%
16:00	17:00	1	464	101	2	7	1	2	1	1		580	8.7%
17:00	17:15	1	124	38	3	2		1				169	2.5%
17:15	17:30	129	37			1		1				168	2.5%
17:30	17:45	129	24	2	2							157	2.4%
17:45	18:00	124	32		1			1				158	2.4%
17:00	18:00	1	506	131	5	6		3				652	9.8%
18:00	18:15	1	121	23								145	2.2%
18:15	18:30	1	110	20		4		1				136	2.0%
18:30	18:45	1	110	20		2						133	2.0%
18:45	19:00	1	98	16								115	1.7%
18:00	19:00	4	439	79		6		1				529	7.9%
19:00	19:15	89	17	1								107	1.6%
19:15	19:30	85	16		1							102	1.5%
19:30	19:45	85	17		4							106	1.6%
19:45	20:00	72	15		1			1				89	1.3%
19:00	20:00	331	65	1	6			1				404	6.1%
20:00	20:15	74	19		1							94	1.4%
20:15	20:30	2	69	14				1	1			87	1.3%
20:30	20:45	2	81	14	1							98	1.5%
20:45	21:00	60	14		3			1				78	1.2%
20:00	21:00	4	284	61	1	4		1	2			357	5.4%
21:00	21:15	59	8									67	1.0%
21:15	21:30	59	8		1							68	1.0%
21:30	21:45	62	12		1			1				76	1.1%
21:45	22:00	60	7		1							68	1.0%
21:00	22:00	240	35		3			1				279	4.2%
22:00	22:15	47	3		1							51	0.8%
22:15	22:30	34	5									39	0.6%
22:30	22:45	37	4									41	0.6%
22:45	23:00	44	10									54	0.8%
22:00	23:00	162	22		1							185	2.8%
23:00	23:15	26	3									29	0.4%
23:15	23:30	32	3									35	0.5%
23:30	23:45	28	4									32	0.5%
23:45	00:00	9										9	0.1%
23:00	00:00	95	10									105	1.6%
Total		20	5279	1130	68	115	11	3	24	6	2	6658	
		0.3%	79.3%	17.0%	1.0%	1.7%	0.2%	0.0%	0.4%	0.1%	0.0%		
AM PEAK		1	83	18	4	4	2	1	2	1		107	
period		3:00	8:15	11:45	7:45	11:45	9:30	7:15	7:30	4:00		8:15	
% of class		5.0%	1.6%	1.6%	5.9%	3.5%	18.2%	33.3%	8.3%	16.7%		1.6%	
PM PEAK		2	149	44	8	5	1	1	2	1	1	197	
period		15:30	16:45	16:45	15:15	13:45	16:15	18:15	12:45	13:45	13:45	16:45	
% of class		10.0%	2.8%	3.9%	11.8%	4.3%	9.1%	33.3%	8.3%	16.7%	50.0%	3.0%	

Report-1.3 Classes ----->	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway														
	Direction : North Road :														
Dates : 1 5/9/2019															
	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9	Class-10	Class-11	Class-12	Class-13	Total	
OO:00 0:15		13	2		1									16	0.2%
0:15 0:30		7	1											8	0.1%
0:30 0:45		4	2											6	0.1%
0:45 1:00		8												8	0.1%
OO:00 1:00		32	5		1									38	0.6%
1:00 1:15		6	2											8	0.1%
1:15 1:30		5	3											8	0.1%
1:30 1:45		7	1											8	0.1%
1:45 2:00		4												4	0.1%
1:00 2:00		22	6											28	0.4%
2:00 2:15		3	2											5	0.1%
2:15 2:30		4												4	0.1%
2:30 2:45		2												2	0.0%
2:45 3:00		4	1											5	0.1%
2:00 3:00		13	3											16	0.2%
3:00 3:15		2	1											3	0.0%
3:15 3:30		1	4											5	0.1%
3:30 3:45															
3:45 4:00		2												2	0.0%
3:00 4:00		5	5											10	0.2%
4:00 4:15		1												1	0.0%
4:15 4:30		3				1								4	0.1%
4:30 4:45		1	2		1									4	0.1%
4:45 5:00		8	3											11	0.2%
4:00 5:00		13	5		1	1								20	0.3%
5:00 5:15		9	3	1	2									15	0.2%
5:15 5:30	1	9	2											12	0.2%
5:30 5:45		15												15	0.2%
5:45 6:00		15	2		1									18	0.3%
5:00 6:00	1	48	7	1	3									60	0.9%
6:00 6:15		18	2											20	0.3%
6:15 6:30		27	6		2									35	0.5%
6:30 6:45		32	9	1	1									43	0.7%
6:45 7:00		39	7	2	1									49	0.8%
6:00 7:00		116	24	3	4									147	2.3%
7:00 7:15		48	15		2	1				1				67	1.0%
7:15 7:30		49	11											60	0.9%
7:30 7:45		71	18	2		1								92	1.4%
7:45 8:00		70	10	4	4									88	1.4%
7:00 8:00		238	54	6	6	2				1				307	4.8%
8:00 8:15		59	12	2	1									74	1.2%
8:15 8:30		77	14	7	2				1					101	1.6%
8:30 8:45		73	25	2	1	3								104	1.6%
8:45 9:00		59	12	1		2								74	1.2%
8:00 9:00		268	63	12	4	5			1					353	5.5%
9:00 9:15		45	16	2	2	2								67	1.0%
9:15 9:30		40	12	2	1									55	0.9%
9:30 9:45	1	51	15		2				1					70	1.1%
9:45 10:00	1	46	15	1	4									67	1.0%
9:00 10:00	2	182	58	5	9	2			1					259	4.0%
10:00 10:15		45	14		2	2		1		1				65	1.0%
10:15 10:30		46	10	1	3			1						61	1.0%
10:30 10:45		49	18		3	1		1						72	1.1%
10:45 11:00		51	12	1	2	1		2						69	1.1%
10:00 11:00		191	54	2	10	4		5		1				267	4.2%
11:00 11:15		49	14	2	3	1								69	1.1%
11:15 11:30		53	6	1	2	1	1							64	1.0%
11:30 11:45	1	74	8	2	2	1		1						89	1.4%
11:45 12:00		71	7		3									81	1.3%
11:00 12:00	1	247	35	5	10	3	1	1						303	4.7%

12:00	12:15		53	8		4	2							67	1.0%
12:15	12:30		70	20		2	2		1					95	1.5%
12:30	12:45	1	64	18	1	3								87	1.4%
12:45	13:00	1	61	12		2								76	1.2%
12:00	13:00	2	248	58	1	11	4		1					325	5.1%
13:00	13:15		76	20	1	7			3					107	1.7%
13:15	13:30		65	16										81	1.3%
13:30	13:45		71	14			3							88	1.4%
13:45	14:00	1	77	15	2	4								99	1.5%
13:00	14:00	1	289	65	3	14			3					375	5.8%
14:00	14:15		72	19	1	1	1							94	1.5%
14:15	14:30		98	30	3	1								132	2.1%
14:30	14:45		81	22	3	4	1		1			1		113	1.8%
14:45	15:00		88	13	1	3								105	1.6%
14:00	15:00		339	84	8	9	2		1			1		444	6.9%
15:00	15:15	1	98	25	3	1			1				1	130	2.0%
15:15	15:30		119	28	9	4		1						161	2.5%
15:30	15:45		145	20	1	1			1					168	2.6%
15:45	16:00		96	38	1	4								139	2.2%
15:00	16:00	1	458	111	14	10		1	2				1	598	9.3%
16:00	16:15	1	120	31		1								153	2.4%
16:15	16:30		120	22	1	2	1		1					147	2.3%
16:30	16:45		121	28	1	1			1					152	2.4%
16:45	17:00		126	21	1	4			1					153	2.4%
16:00	17:00	1	487	102	3	8	1		3					605	9.4%
17:00	17:15		101	43		4								148	2.3%
17:15	17:30		110	17	2	2				1				132	2.1%
17:30	17:45		142	38	1									181	2.8%
17:45	18:00		88	26		1								115	1.8%
17:00	18:00		441	124	3	7			1					576	9.0%
18:00	18:15		110	14	1									125	1.9%
18:15	18:30		105	24		2								131	2.0%
18:30	18:45		86	15										101	1.6%
18:45	19:00		97	17		1								115	1.8%
18:00	19:00		398	70	1	3								472	7.4%
19:00	19:15		98	12	1									111	1.7%
19:15	19:30		79	15		1								95	1.5%
19:30	19:45		83	21										104	1.6%
19:45	20:00		82	12		1	1							96	1.5%
19:00	20:00		342	60	1	2	1							406	6.3%
20:00	20:15		79	13		2								94	1.5%
20:15	20:30		98	9		2								109	1.7%
20:30	20:45		63	7	1	2								73	1.1%
20:45	21:00		52	7		1								60	0.9%
20:00	21:00		292	36	1	7								336	5.2%
21:00	21:15		60	3		1								64	1.0%
21:15	21:30		63	8										71	1.1%
21:30	21:45		50	3		1								54	0.8%
21:45	22:00		34	4										38	0.6%
21:00	22:00		207	18		2								227	3.5%
22:00	22:15		45	5					1					51	0.8%
22:15	22:30		34	2										36	0.6%
22:30	22:45		33	6										39	0.6%
22:45	23:00		20	7										27	0.4%
22:00	23:00		132	20					1					153	2.4%
23:00	23:15		23	2		1								26	0.4%
23:15	23:30		19	3										22	0.3%
23:30	23:45		28	2		1			1					32	0.5%
23:45	00:00		10	1		1								12	0.2%
23:00	00:00		80	8		3			1					92	1.4%
Total		9 0.1%	5088 79.3%	1075 16.8%	69 1.1%	124 1.9%	25 0.4%	2 0.0%	18 0.3%	3 0.0%	3 0.0%	1 0.0%		6417	
AM PEAK		1	77	25	7	4	3	1	2			1		104	
period		5:15	8:15	8:30	8:15	7:45	8:30	11:15	10:45			7:00		8:30	
% of class		11.1%	1.5%	2.3%	10.1%	3.2%	12.0%	50.0%	11.1%			33.3%		1.6%	
PM PEAK		1	145	43	9	7	2	1	3	1		1	1	181	
period		12:30	15:30	17:00	15:15	13:00	12:00	15:15	13:00	12:15	14:30		15:00	17:30	
% of class		11.1%	2.8%	4.0%	13.0%	5.6%	8.0%	50.0%	16.7%	33.3%	33.3%		100.0%	2.8%	

Report-1.4	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway														
	Direction : South Road :														
Dates : 1 5/7/2019															
Classes ----->	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9	Class-10	Class-11	Class-12	Class-13	Total	
00:00 0:15		6	1											7	0.1%
0:15 0:30														6	0.1%
0:30 0:45		6												4	0.1%
0:45 1:00		2	1						1					4	0.1%
00:00 1:00		14	2						1					17	0.3%
1:00 1:15		3												3	0.0%
1:15 1:30		1	1											2	0.0%
1:30 1:45		2	2											4	0.1%
1:45 2:00		3	1											4	0.1%
1:00 2:00		9	4											13	0.2%
2:00 2:15		2												2	0.0%
2:15 2:30		3	1											4	0.1%
2:30 2:45		2												2	0.0%
2:45 3:00		1												1	0.0%
2:00 3:00		8	1											9	0.1%
3:00 3:15		5	2											7	0.1%
3:15 3:30		4												4	0.1%
3:30 3:45		3	5											8	0.1%
3:45 4:00		2	2											4	0.1%
3:00 4:00		14	9											23	0.4%
4:00 4:15		9	2											11	0.2%
4:15 4:30		15	4											19	0.3%
4:30 4:45		20	9		1									30	0.5%
4:45 5:00		20	9											29	0.5%
4:00 5:00		64	24		1									89	1.5%
5:00 5:15		29	9											38	0.6%
5:15 5:30		37	16	1	1									55	0.9%
5:30 5:45		40	21		2									63	1.0%
5:45 6:00		71	34											105	1.7%
5:00 6:00		177	80	1	3									261	4.3%
6:00 6:15		60	31	1	2									94	1.5%
6:15 6:30		63	36											99	1.6%
6:30 6:45		83	39	2				1						125	2.0%
6:45 7:00		86	27		1									114	1.9%
6:00 7:00		292	133	3	3			1						432	7.1%
7:00 7:15		75	31		1									107	1.7%
7:15 7:30		87	25		1			1						114	1.9%
7:30 7:45	1	95	30	6	1	1		1						135	2.2%
7:45 8:00		119	24	2	2									147	2.4%
7:00 8:00	1	376	110	8	5	1		2						503	8.2%
8:00 8:15		135	19	3	2			1						160	2.6%
8:15 8:30		118	24	2	1	1								146	2.4%
8:30 8:45		96	16	1	1									114	1.9%
8:45 9:00	1	98	21		4									124	2.0%
8:00 9:00	1	447	80	6	8	1		1						544	8.9%
9:00 9:15	1	79	18	1										99	1.6%
9:15 9:30		100	13		2									115	1.9%
9:30 9:45		77	18	1	6									102	1.7%
9:45 10:00		71	14	1	1	2								89	1.5%
9:00 10:00	1	327	63	3	9	2								405	6.6%
10:00 10:15	1	88	11		3									103	1.7%
10:15 10:30		68	19		3	1		1						92	1.5%
10:30 10:45		73	16	1	2			1						93	1.5%
10:45 11:00		65	22		1									88	1.4%
10:00 11:00	1	294	68	1	9	1		2						376	6.1%
11:00 11:15		50	12		2									64	1.0%
11:15 11:30		69	12	2	2									85	1.4%
11:30 11:45		53	15	3	3									74	1.2%
11:45 12:00		67	9		2			1						79	1.3%
11:00 12:00		239	48	5	9			1						302	4.9%

12:00	12:15		55	19	4	2					80	1.3%
12:15	12:30		51	9	1	1					62	1.0%
12:30	12:45		60	9		3					72	1.2%
12:45	13:00	1	63	14	1	4				1	84	1.4%
12:00	13:00	1	229	51	6	8	2			1	298	4.9%
13:00	13:15	2	60	12	1	1	1				77	1.3%
13:15	13:30		50	4	1	1		2			58	0.9%
13:30	13:45		45	12	1	4					62	1.0%
13:45	14:00	1	60	11	4	1	1				78	1.3%
13:00	14:00	3	215	39	7	7	2		2		275	4.5%
14:00	14:15		64	12	8	4		1			89	1.5%
14:15	14:30	1	57	11	2	4	1		1		77	1.3%
14:30	14:45		67	11	1	3			1		83	1.4%
14:45	15:00		76	12	4	1			2		95	1.6%
14:00	15:00	1	264	46	15	12	1	1	4		344	5.6%
15:00	15:15	2	61	19		1					83	1.4%
15:15	15:30	1	56	17	1		1		1		77	1.3%
15:30	15:45		64	15		3					82	1.3%
15:45	16:00		54	20	1	3					78	1.3%
15:00	16:00	3	235	71	2	7	1		1		320	5.2%
16:00	16:15		91	9		2					102	1.7%
16:15	16:30		79	17		1					97	1.6%
16:30	16:45		76	17	2	1					96	1.6%
16:45	17:00		93	17	2	1					113	1.8%
16:00	17:00		339	60	4	5					408	6.7%
17:00	17:15		94	10	1	1					106	1.7%
17:15	17:30		99	16		1	1			1	118	1.9%
17:30	17:45		83	10		2					95	1.6%
17:45	18:00	1	91	18							110	1.8%
17:00	18:00	1	367	54	1	4	1			1	429	7.0%
18:00	18:15	3	96	18		5					122	2.0%
18:15	18:30		85	15		1					101	1.7%
18:30	18:45		68	10		1					79	1.3%
18:45	19:00		60	9		1					70	1.1%
18:00	19:00	3	309	52		8					372	6.1%
19:00	19:15	1	45	9	1	1	1				58	0.9%
19:15	19:30	1	50	10		1					62	1.0%
19:30	19:45	1	55	16				1			73	1.2%
19:45	20:00	2	57	9		3	1				72	1.2%
19:00	20:00	5	207	44	1	5	2	1			265	4.3%
20:00	20:15		40	7							47	0.8%
20:15	20:30		29	6		1					36	0.6%
20:30	20:45		47	6		1					54	0.9%
20:45	21:00		27	3							30	0.5%
20:00	21:00		143	22		2					167	2.7%
21:00	21:15	1	41	6	1						49	0.8%
21:15	21:30		42	10		1					53	0.9%
21:30	21:45		32	3							35	0.6%
21:45	22:00		16	4							20	0.3%
21:00	22:00	1	131	23	1	1					157	2.6%
22:00	22:15		19								19	0.3%
22:15	22:30		17	2							19	0.3%
22:30	22:45		12	2							14	0.2%
22:45	23:00		10	1							11	0.2%
22:00	23:00		58	5							63	1.0%
23:00	23:15		8	2							10	0.2%
23:15	23:30		15	3							18	0.3%
23:30	23:45		8	1		2					11	0.2%
23:45	00:00		7								7	0.1%
23:00	00:00		38	6		2					46	0.8%
Total		22	4796	1095	64	108	14	2	14	2	1	6118
		0.4%	78.4%	17.9%	1.0%	1.8%	0.2%	0.0%	0.2%	0.0%	0.0%	
AM PEAK	1	135	39	6	6	2	2	1	1	1	160	
period	7:30	8:00	6:30	7:30	9:30	9:45		6:30	0:45		8:00	
% of class	4.5%	2.8%	3.6%	9.4%	5.6%	14.3%		7.1%	50.0%		2.6%	
PM PEAK	3	99	20	8	5	2	1	2	1	1	122	
period	18:00	17:15	15:45	14:00	18:00	12:00	14:00	13:15	12:45	17:15	18:00	
% of class	13.6%	2.1%	1.8%	12.5%	4.6%	14.3%	50.0%	14.3%	50.0%	100.0%	2.0%	

Report-1.5	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway													
	Direction : South Road :													
Dates : 1 5/8/2019														
Classes ----->	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9	Class-10	Class-11	Class-12	Class-13	Total
00:00 0:15		5	1											6 0.1%
0:15 0:30		5												5 0.1%
0:30 0:45		5	1		2									8 0.1%
0:45 1:00		4												4 0.1%
00:00 1:00		19	2		2									23 0.4%
1:00 1:15		2												2 0.0%
1:15 1:30		5												5 0.1%
1:30 1:45		1												1 0.0%
1:45 2:00		1	1					1						3 0.0%
1:00 2:00		9	1					1						11 0.2%
2:00 2:15			1											1 0.0%
2:15 2:30		1			1									2 0.0%
2:30 2:45		1	1											2 0.0%
2:45 3:00		3	1											4 0.1%
2:00 3:00		5	3		1									9 0.1%
3:00 3:15		2	2											4 0.1%
3:15 3:30		2	2											4 0.1%
3:30 3:45		2	2											4 0.1%
3:45 4:00		2	3											5 0.1%
3:00 4:00		8	9											17 0.3%
4:00 4:15		8	5											13 0.2%
4:15 4:30		16	5											21 0.3%
4:30 4:45		19	7											26 0.4%
4:45 5:00		16	13											29 0.5%
4:00 5:00		59	30											89 1.4%
5:00 5:15		27	9											36 0.6%
5:15 5:30		20	23		1			1						45 0.7%
5:30 5:45		49	21	1	1									72 1.1%
5:45 6:00		58	26	1	4									89 1.4%
5:00 6:00		154	79	2	6			1						242 3.8%
6:00 6:15		59	35		1									95 1.5%
6:15 6:30		83	20											103 1.6%
6:30 6:45		73	32	1										106 1.7%
6:45 7:00		88	21	1	2									112 1.8%
6:00 7:00		303	108	2	3									416 6.5%
7:00 7:15		69	25		2									96 1.5%
7:15 7:30		72	28		4			1						105 1.6%
7:30 7:45	1	98	29	7	3									138 2.2%
7:45 8:00		132	23	3	3			1						162 2.5%
7:00 8:00	1	371	105	10	12			2						501 7.9%
8:00 8:15		122	33	3	3									161 2.5%
8:15 8:30		107	18	3	3	2								133 2.1%
8:30 8:45		113	16	1	6			1						137 2.2%
8:45 9:00		87	17	2				1						107 1.7%
8:00 9:00		429	84	9	12	2		2						538 8.4%
9:00 9:15		86	18	2	4				1					111 1.7%
9:15 9:30		74	18	1	2									95 1.5%
9:30 9:45	1	71	17		1	1								91 1.4%
9:45 10:00	1	90	12	1	2	1								107 1.7%
9:00 10:00	2	321	65	4	9	2			1					404 6.3%
10:00 10:15	1	69	19		2		1			1				93 1.5%
10:15 10:30		60	15		1				1					77 1.2%
10:30 10:45		60	12		2			2						76 1.2%
10:45 11:00		60	8	1	2	1	1							73 1.1%
10:00 11:00	1	249	54	1	7	1	2	2	1	1				319 5.0%
11:00 11:15	1	53	18	1	2									75 1.2%
11:15 11:30	1	67	16	1	1									86 1.4%
11:30 11:45		52	13		4	2								71 1.1%
11:45 12:00		60	14		5		1	1						81 1.3%
11:00 12:00	2	232	61	2	12	2	1	1						313 4.9%

12:00	12:15		62	17		1						80	1.3%
12:15	12:30	1	66	27		2						96	1.5%
12:30	12:45		53	10								63	1.0%
12:45	13:00		69	19		5						93	1.5%
12:00	13:00	1	250	73		8						332	5.2%
13:00	13:15		48	9	1	5						63	1.0%
13:15	13:30	1	53	14	2	1						71	1.1%
13:30	13:45		58	16	4	3						81	1.3%
13:45	14:00		54	14	5	3						76	1.2%
13:00	14:00	1	213	53	12	12						291	4.6%
14:00	14:15		68	13	11	1						93	1.5%
14:15	14:30		71	5	1	3				1		81	1.3%
14:30	14:45		58	14	1					2		75	1.2%
14:45	15:00	1	69	18	3	2	1					94	1.5%
14:00	15:00	1	266	50	16	6	1			3		343	5.4%
15:00	15:15		69	14		2						85	1.3%
15:15	15:30	1	77	24	1	4				1		108	1.7%
15:30	15:45		65	8	1	1						75	1.2%
15:45	16:00		99	20		2						121	1.9%
15:00	16:00	1	310	66	2	9				1		389	6.1%
16:00	16:15		73	14	1	2						90	1.4%
16:15	16:30		100	14	2	3				1		120	1.9%
16:30	16:45	1	99	13	1	1			1	1		117	1.8%
16:45	17:00	2	99	12		3	1					117	1.8%
16:00	17:00	3	371	53	4	9	1	1	2			444	7.0%
17:00	17:15		92	14		3						109	1.7%
17:15	17:30	1	100	11		2						114	1.8%
17:30	17:45	3	87	12	2	2						106	1.7%
17:45	18:00	1	86	19	1	4						111	1.7%
17:00	18:00	5	365	56	3	11						440	6.9%
18:00	18:15		83	7								90	1.4%
18:15	18:30	1	97	20					1			119	1.9%
18:30	18:45	1	55	17		1						74	1.2%
18:45	19:00		72	13						1		86	1.4%
18:00	19:00	2	307	57		1			1	1		369	5.8%
19:00	19:15	2	54	13	1	2						72	1.1%
19:15	19:30		65	12		2						79	1.2%
19:30	19:45	1	51	15								67	1.1%
19:45	20:00		57	14								71	1.1%
19:00	20:00	3	227	54	1	4						289	4.5%
20:00	20:15		51	13								64	1.0%
20:15	20:30		68	12		1						81	1.3%
20:30	20:45		65	8	1	1						75	1.2%
20:45	21:00	2	55	8								65	1.0%
20:00	21:00	2	239	41	1	2						285	4.5%
21:00	21:15		29	5		2						36	0.6%
21:15	21:30		33	7		3						43	0.7%
21:30	21:45		26	3								29	0.5%
21:45	22:00		26	9						1		36	0.6%
21:00	22:00		114	24		5				1		144	2.3%
22:00	22:15		25	2								27	0.4%
22:15	22:30		30	1				1				32	0.5%
22:30	22:45		25	3								28	0.4%
22:45	23:00		16	5								21	0.3%
22:00	23:00		96	11				1				108	1.7%
23:00	23:15		8	3								11	0.2%
23:15	23:30		15									15	0.2%
23:30	23:45		10	1		1						12	0.2%
23:45	00:00		15	1								16	0.3%
23:00	00:00		48	5		1						54	0.8%
Total		25	4965	1144	69	132	10	5	16	3	1	6370	
		0.4%	77.9%	18.0%	1.1%	2.1%	0.2%	0.1%	0.3%	0.0%	0.0%		
AM PEAK		1	132	35	7	6	2	1	2	1	1	162	
period		7:30	7:45	6:00	7:30	8:30	8:15	10:00	10:30	9:00	10:00	7:45	
% of class		4.0%	2.7%	3.1%	10.1%	4.5%	20.0%	20.0%	12.5%	33.3%	100.0%	2.5%	
PM PEAK		3	100	27	11	5	1	1	2	1		121	
period		17:30	16:15	12:15	14:00	12:45	14:45	16:30	14:30	21:45		15:45	
% of class		12.0%	2.0%	2.4%	15.9%	3.8%	10.0%	20.0%	12.5%	33.3%		1.9%	

Report-1.6	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway														
	Direction : South Road :														
Dates : 1 5/9/2019															
Classes ----->	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9	Class-10	Class-11	Class-12	Class-13	Total	
00:00 0:15		4	2		1									7	0.1%
0:15 0:30		4			1									5	0.1%
0:30 0:45		4												4	0.1%
0:45 1:00		3												3	0.1%
00:00 1:00		15	2		2									19	0.3%
1:00 1:15		4												4	0.1%
1:15 1:30		2	2											4	0.1%
1:30 1:45		2	2		1									5	0.1%
1:45 2:00		3												3	0.1%
1:00 2:00		11	4		1									16	0.3%
2:00 2:15		2	1											3	0.1%
2:15 2:30		1												1	0.0%
2:30 2:45		3												3	0.1%
2:45 3:00															
2:00 3:00		6	1											7	0.1%
3:00 3:15		2	1											3	0.1%
3:15 3:30		4	2											6	0.1%
3:30 3:45		4	3											7	0.1%
3:45 4:00		4	2											6	0.1%
3:00 4:00		14	8											22	0.4%
4:00 4:15		6	3											9	0.2%
4:15 4:30		11	5											16	0.3%
4:30 4:45		14	6											20	0.3%
4:45 5:00		26	6											32	0.5%
4:00 5:00		57	20											77	1.3%
5:00 5:15		29	10		1									40	0.7%
5:15 5:30		27	20	1		1								49	0.8%
5:30 5:45		39	18											57	1.0%
5:45 6:00		58	20		2									80	1.4%
5:00 6:00		153	68	1	3	1								226	3.9%
6:00 6:15		68	35	1	1									105	1.8%
6:15 6:30		75	31	1	2			1						110	1.9%
6:30 6:45		71	28	1	2									102	1.7%
6:45 7:00		101	27		2									130	2.2%
6:00 7:00		315	121	3	7			1						447	7.7%
7:00 7:15		69	25		4	1				1				100	1.7%
7:15 7:30		99	28		1			1						129	2.2%
7:30 7:45	1	84	23	7	4	1								120	2.1%
7:45 8:00		129	22	3	2									156	2.7%
7:00 8:00	1	381	98	10	11	2		1		1				505	8.6%
8:00 8:15		126	26	4	1									157	2.7%
8:15 8:30		111	23	1	3	2								140	2.4%
8:30 8:45		91	20	3	1	1								116	2.0%
8:45 9:00		79	13		2									94	1.6%
8:00 9:00		407	82	8	7	3								507	8.7%
9:00 9:15		79	18	2	2			1						102	1.7%
9:15 9:30		76	20	2	2									100	1.7%
9:30 9:45		65	21	1	2			1						90	1.5%
9:45 10:00	1	81	19	1	4									106	1.8%
9:00 10:00	1	301	78	6	10			2						398	6.8%
10:00 10:15		63	13	2	4	1		1						84	1.4%
10:15 10:30		78	9		3	1		1						92	1.6%
10:30 10:45		58	6		2									66	1.1%
10:45 11:00		69	7		2	1								79	1.4%
10:00 11:00		268	35	2	11	3		2						321	5.5%
11:00 11:15		67	15		2									84	1.4%
11:15 11:30		58	14	2	1			2						77	1.3%
11:30 11:45		57	10	1	3					1				72	1.2%
11:45 12:00		64	13			1								78	1.3%
11:00 12:00		246	52	3	6	1		2		1				311	5.3%

12:00	12:15		74	7										81	1.4%
12:15	12:30		47	11	1									59	1.0%
12:30	12:45		63	12		1							1	77	1.3%
12:45	13:00	1	61	13				2						77	1.3%
12:00	13:00	1	245	43	1	1		2					1	294	5.0%
13:00	13:15		58	11	3	2	1							75	1.3%
13:15	13:30		62	16	2	3		1						84	1.4%
13:30	13:45	1	55	10		3								69	1.2%
13:45	14:00	1	60	11	5	2	1							80	1.4%
13:00	14:00	2	235	48	10	10	2						1	308	5.3%
14:00	14:15		60	18	4	2		2						86	1.5%
14:15	14:30		56	12	2	4								74	1.3%
14:30	14:45		50	7	4	3		2						66	1.1%
14:45	15:00		68	11	4	2								85	1.5%
14:00	15:00		234	48	14	11		4						311	5.3%
15:00	15:15		61	15	1	2								79	1.4%
15:15	15:30		68	23	1									92	1.6%
15:30	15:45		67	18		2								87	1.5%
15:45	16:00		56	16	2			1	1					76	1.3%
15:00	16:00		252	72	4	4		1	1					334	5.7%
16:00	16:15		73	17		1				1				92	1.6%
16:15	16:30		78	16		1								95	1.6%
16:30	16:45		77	10		2		1					1	91	1.6%
16:45	17:00		94	14	1	2		1						112	1.9%
16:00	17:00		322	57	1	6		2		1			1	390	6.7%
17:00	17:15		72	10	1									83	1.4%
17:15	17:30		85	14		1				1				101	1.7%
17:30	17:45		71	14	1	2								88	1.5%
17:45	18:00	1	75	12	1	5								94	1.6%
17:00	18:00	1	303	50	3	8				1				366	6.3%
18:00	18:15		87	8		2								97	1.7%
18:15	18:30		89	11		2	1							103	1.8%
18:30	18:45		66	9	1									76	1.3%
18:45	19:00		56	6		1				1				64	1.1%
18:00	19:00		298	34	1	5	1			1				340	5.8%
19:00	19:15		59	9		2								70	1.2%
19:15	19:30		41	5		1								47	0.8%
19:30	19:45	1	39	4		2								46	0.8%
19:45	20:00		34	8		1								43	0.7%
19:00	20:00	1	173	26		6								206	3.5%
20:00	20:15		51	7										58	1.0%
20:15	20:30		38	4										42	0.7%
20:30	20:45		39	5		1								45	0.8%
20:45	21:00		30	4										34	0.6%
20:00	21:00		158	20		1								179	3.1%
21:00	21:15		28	1										29	0.5%
21:15	21:30		35	4		1								40	0.7%
21:30	21:45		29	3										32	0.5%
21:45	22:00		30	5										35	0.6%
21:00	22:00		122	13		1								136	2.3%
22:00	22:15		21	4										25	0.4%
22:15	22:30		24	4										28	0.5%
22:30	22:45		16	2										18	0.3%
22:45	23:00		21											21	0.4%
22:00	23:00		82	10										92	1.6%
23:00	23:15		11											11	0.2%
23:15	23:30		8	1										9	0.2%
23:30	23:45		7	1										8	0.1%
23:45	00:00		2											2	0.0%
23:00	00:00		28	2										30	0.5%
Total		7	4626	992	67	111	13	18	3	3			2	5842	
		0.1%	79.2%	17.0%	1.1%	1.9%	0.2%	0.3%	0.1%	0.1%			0.0%		
AM PEAK		1	129	35	7	4	2	2		1				157	
period		7:30	7:45	6:00	7:30	7:00	8:15	11:15		7:00				8:00	
% of class		14.3%	2.8%	3.5%	10.4%	3.6%	15.4%	11.1%		33.3%				2.7%	
PM PEAK		1	94	23	5	5	1	2	1	1			1	112	
period		12:45	16:45	15:15	13:45	17:45	13:00	12:45	15:45	16:00			12:30	16:45	
% of class		14.3%	2.0%	2.3%	7.5%	4.5%	7.7%	11.1%	33.3%	33.3%			50.0%	1.9%	

Report-1.7 Classes ----->	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway													Total	
	Direction : North + South Road :														
Dates : 1 5/7/2019															
	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9	Class-10	Class-11	Class-12	Class-13		
00:00 0:15		18	3											21	0.2%
0:15 0:30		5						2						7	0.1%
0:30 0:45		19												19	0.2%
0:45 1:00		2	2						1					5	0.0%
00:00 1:00		44	5					2	1					52	0.4%
1:00 1:15		10	1											11	0.1%
1:15 1:30		3	2											5	0.0%
1:30 1:45		6	3											9	0.1%
1:45 2:00		9	1											10	0.1%
1:00 2:00		28	7											35	0.3%
2:00 2:15		9	1											10	0.1%
2:15 2:30		6	1											7	0.1%
2:30 2:45		6												6	0.0%
2:45 3:00		4	2											6	0.0%
2:00 3:00		25	4											29	0.2%
3:00 3:15		7	3											10	0.1%
3:15 3:30		5	2											7	0.1%
3:30 3:45		4	5											9	0.1%
3:45 4:00		4	2											6	0.0%
3:00 4:00		20	12											32	0.3%
4:00 4:15		13	2											15	0.1%
4:15 4:30		20	5											25	0.2%
4:30 4:45		23	11		1									35	0.3%
4:45 5:00		26	10											36	0.3%
4:00 5:00		82	28		1									111	0.9%
5:00 5:15		33	10	1										44	0.3%
5:15 5:30	1	46	19	1	2									69	0.5%
5:30 5:45		53	24		2									79	0.6%
5:45 6:00		93	38		1									132	1.0%
5:00 6:00	1	225	91	2	5									324	2.6%
6:00 6:15		75	38	1	2									116	0.9%
6:15 6:30		88	39											127	1.0%
6:30 6:45		114	47	3	3			1						168	1.3%
6:45 7:00		133	38	2	3									176	1.4%
6:00 7:00		410	162	6	8			1						587	4.6%
7:00 7:15		119	42	1	3									165	1.3%
7:15 7:30		144	40		1			1						186	1.5%
7:30 7:45	1	166	38	8	2	1		1						217	1.7%
7:45 8:00	1	185	39	6	3	1		2						237	1.9%
7:00 8:00	2	614	159	15	9	2		4						805	6.4%
8:00 8:15		206	32	5	3			1						247	2.0%
8:15 8:30		177	38	9	4	2								230	1.8%
8:30 8:45		173	36	4	5			1						219	1.7%
8:45 9:00	1	167	29	3	6									206	1.6%
8:00 9:00	1	723	135	21	18	2		2						902	7.1%
9:00 9:15	1	124	30	2	2									159	1.3%
9:15 9:30		144	20		2									166	1.3%
9:30 9:45	1	129	32	1	8				1					172	1.4%
9:45 10:00		131	30	2	3	3								169	1.3%
9:00 10:00	2	528	112	5	15	3			1					666	5.3%
10:00 10:15	1	129	28	1	7									166	1.3%
10:15 10:30		113	33		5	2		1						154	1.2%
10:30 10:45		116	29	1	4	2		1						153	1.2%
10:45 11:00		122	32	1	3									158	1.2%
10:00 11:00	1	480	122	3	19	4		2						631	5.0%
11:00 11:15		86	25	2	5			4						122	1.0%
11:15 11:30	1	124	26	3	5				1					160	1.3%
11:30 11:45	1	112	24	4	7	1		2						151	1.2%
11:45 12:00	1	141	21	1	2	1		1						168	1.3%
11:00 12:00	3	463	96	10	19	2		7	1					601	4.8%

Report-1.8	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway													Total	
	Direction : North + South Road :														
Dates : 1 5/8/2019													Total		
Classes ----->	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9	Class-10	Class-11	Class-12			Class-13
00:00 0:15		18	2											20	0.2%
0:15 0:30		14												14	0.1%
0:30 0:45		16	1		2									19	0.1%
0:45 1:00		13												13	0.1%
00:00 1:00		61	3		2									66	0.5%
1:00 1:15		10												10	0.1%
1:15 1:30		11	1											12	0.1%
1:30 1:45		6												6	0.0%
1:45 2:00		6	1		1			2						10	0.1%
1:00 2:00		33	2		1			2						38	0.3%
2:00 2:15		4	2											6	0.0%
2:15 2:30		2	1		1									4	0.0%
2:30 2:45		6	1											7	0.1%
2:45 3:00		6	1											7	0.1%
2:00 3:00		18	5		1									24	0.2%
3:00 3:15	1	3	4	1										9	0.1%
3:15 3:30		4	3											7	0.1%
3:30 3:45		2	4											6	0.0%
3:45 4:00		6	3		1									10	0.1%
3:00 4:00	1	15	14	1	1									32	0.2%
4:00 4:15		9	5						1					15	0.1%
4:15 4:30		18	5											23	0.2%
4:30 4:45		24	7											31	0.2%
4:45 5:00		22	14											36	0.3%
4:00 5:00		73	31						1					105	0.8%
5:00 5:15		33	10											43	0.3%
5:15 5:30	1	28	25	1	1			1						57	0.4%
5:30 5:45		67	22	1	2									92	0.7%
5:45 6:00		82	30	1	4									117	0.9%
5:00 6:00	1	210	87	3	7			1						309	2.4%
6:00 6:15		76	40		3									119	0.9%
6:15 6:30		115	28		3									146	1.1%
6:30 6:45		112	41	2	2									157	1.2%
6:45 7:00		131	30	2	5									168	1.3%
6:00 7:00		434	139	4	13									590	4.5%
7:00 7:15		120	35	3	3	1								162	1.2%
7:15 7:30		119	43		5		1	1						169	1.3%
7:30 7:45	1	162	46	7	6			2						224	1.7%
7:45 8:00		207	35	7	5	1		1						256	2.0%
7:00 8:00	1	608	159	17	19	2	1	4						811	6.2%
8:00 8:15		185	46	6	6	1								244	1.9%
8:15 8:30		190	35	7	5	3								240	1.8%
8:30 8:45		192	33	3	8			1						237	1.8%
8:45 9:00		160	32	6	1			1	1					201	1.5%
8:00 9:00		727	146	22	20	4		2	1					922	7.1%
9:00 9:15		142	35	4	4	1		1	1					188	1.4%
9:15 9:30	1	119	28	1	3	1								153	1.2%
9:30 9:45	1	118	29		2	3								153	1.2%
9:45 10:00	1	141	22	1	4	2		1						172	1.3%
9:00 10:00	3	520	114	6	13	7		2	1					666	5.1%
10:00 10:15	1	124	30		4		1	1		1				162	1.2%
10:15 10:30		111	31	2	2					1				147	1.1%
10:30 10:45	1	112	19	1	5			2						140	1.1%
10:45 11:00		116	19	3	5	1	1		1					146	1.1%
10:00 11:00	2	463	99	6	16	1	2	3	2	1				595	4.6%
11:00 11:15	1	107	35	2	3									148	1.1%
11:15 11:30	1	114	29	1	1									146	1.1%
11:30 11:45		110	27		6	3								146	1.1%
11:45 12:00		114	32	1	9		1	1	1					159	1.2%
11:00 12:00	2	445	123	4	19	3	1	1	1					599	4.6%

12:00 12:15		135	38			1							174	1.3%
12:15 12:30	1	128	45			1				1			182	1.4%
12:30 12:45		121	24			1				2			149	1.1%
12:45 13:00		130	34							6			172	1.3%
12:00 13:00	1	514	141			2				15			677	5.2%
13:00 13:15		119	34			2				6			162	1.2%
13:15 13:30	1	117	27			2				3			151	1.2%
13:30 13:45		120	29			5				4			158	1.2%
13:45 14:00	1	119	31			6				8		1	167	1.3%
13:00 14:00	2	475	121			15				21		2	638	4.9%
14:00 14:15		141	25			13				2			181	1.4%
14:15 14:30		170	24			6				5			206	1.6%
14:30 14:45	1	160	30			3				3			196	1.5%
14:45 15:00	2	153	43			3				6		1	208	1.6%
14:00 15:00	3	624	122			25				13		1	791	6.1%
15:00 15:15		180	40			2				5			227	1.7%
15:15 15:30	1	197	48			9				8			265	2.0%
15:30 15:45	2	179	35			2				4			224	1.7%
15:45 16:00	1	180	40			1				3			225	1.7%
15:00 16:00	4	736	163			14				20			941	7.2%
16:00 16:15		189	33			2				2			228	1.8%
16:15 16:30		225	42			3				7		1	279	2.1%
16:30 16:45	2	173	23			1				2		1	203	1.6%
16:45 17:00	2	248	56							5		1	314	2.4%
16:00 17:00	4	835	154			6				16		2	1024	7.9%
17:00 17:15	1	216	52			3				5			278	2.1%
17:15 17:30	1	229	48							3			282	2.2%
17:30 17:45	3	216	36			4				4			263	2.0%
17:45 18:00	1	210	51			1				5			269	2.1%
17:00 18:00	6	871	187			8				17			1092	8.4%
18:00 18:15	1	204	30							30			235	1.8%
18:15 18:30	2	207	40							4		2	255	2.0%
18:30 18:45	2	165	37							3			207	1.6%
18:45 19:00	1	170	29									1	201	1.5%
18:00 19:00	6	746	136							7		2	898	6.9%
19:00 19:15	2	143	30			2				2			179	1.4%
19:15 19:30		150	28							3			181	1.4%
19:30 19:45	1	136	32							4			173	1.3%
19:45 20:00		129	29							1			160	1.2%
19:00 20:00	3	558	119			2				10			693	5.3%
20:00 20:15		125	32							1			158	1.2%
20:15 20:30	2	137	26							1		1	168	1.3%
20:30 20:45	2	146	22			2				1			173	1.3%
20:45 21:00	2	115	22							3			143	1.1%
20:00 21:00	6	523	102			2				6		1	642	4.9%
21:00 21:15		88	13							2			103	0.8%
21:15 21:30		92	15							4			111	0.9%
21:30 21:45		88	15							1		1	105	0.8%
21:45 22:00		86	16							1		1	104	0.8%
21:00 22:00		354	59							8		1	423	3.2%
22:00 22:15		72	5							1			78	0.6%
22:15 22:30		64	6									1	71	0.5%
22:30 22:45		62	7										69	0.5%
22:45 23:00		60	15										75	0.6%
22:00 23:00		258	33							1		1	293	2.2%
23:00 23:15		34	6										40	0.3%
23:15 23:30		47	3										50	0.4%
23:30 23:45		38	5									1	44	0.3%
23:45 00:00		24	1										25	0.2%
23:00 00:00		143	15							1			159	1.2%
Total		45	10244	2274	137	247	21	8	40	9	3		13028	
		0.3%	78.6%	17.5%	1.1%	1.9%	0.2%	0.1%	0.3%	0.1%	0.0%			
AM PEAK	1	207	46	7	9	3	1	2	1	1	1		256	
period	3:00	7:45	7:30	7:30	11:45	8:15	7:15	1:45	4:00	10:00			7:45	
% of class	2.2%	2.0%	2.0%	5.1%	3.6%	14.3%	12.5%	5.0%	11.1%	33.3%			2.0%	
PM PEAK	3	248	56	13	8	1	2	2	1	1			314	
period	17:30	16:45	16:45	14:00	13:45	14:45	18:15	12:45	13:45	13:45			16:45	
% of class	6.7%	2.4%	2.5%	9.5%	3.2%	4.8%	25.0%	5.0%	11.1%	33.3%			2.4%	

Report-1.9	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway													Total	
	Direction : North + South Road :														
Dates : 1 5/9/2019													Total		
Classes ----->	Class-1	Class-2	Class-3	Class-4	Class-5	Class-6	Class-7	Class-8	Class-9	Class-10	Class-11	Class-12			Class-13
00:00 0:15		17	4		2									23	0.2%
0:15 0:30		11	1		1									13	0.1%
0:30 0:45		8	2											10	0.1%
0:45 1:00		11												11	0.1%
00:00 1:00		47	7		3									57	0.5%
1:00 1:15		10	2											12	0.1%
1:15 1:30		7	5											12	0.1%
1:30 1:45		9	3		1									13	0.1%
1:45 2:00		7												7	0.1%
1:00 2:00		33	10		1									44	0.4%
2:00 2:15		5	3											8	0.1%
2:15 2:30		5												5	0.0%
2:30 2:45		5												5	0.0%
2:45 3:00		4	1											5	0.0%
2:00 3:00		19	4											23	0.2%
3:00 3:15		4	2											6	0.0%
3:15 3:30		5	6											11	0.1%
3:30 3:45		4	3											7	0.1%
3:45 4:00		6	2											8	0.1%
3:00 4:00		19	13											32	0.3%
4:00 4:15		7	3											10	0.1%
4:15 4:30		14	5			1								20	0.2%
4:30 4:45		15	8		1									24	0.2%
4:45 5:00		34	9											43	0.4%
4:00 5:00		70	25		1	1								97	0.8%
5:00 5:15		38	13	1	3									55	0.4%
5:15 5:30	1	36	22	1		1								61	0.5%
5:30 5:45		54	18											72	0.6%
5:45 6:00		73	22		3									98	0.8%
5:00 6:00	1	201	75	2	6	1								286	2.3%
6:00 6:15		86	37	1	1									125	1.0%
6:15 6:30		102	37	1	4			1						145	1.2%
6:30 6:45		103	37	2	3									145	1.2%
6:45 7:00		140	34	2	3									179	1.5%
6:00 7:00		431	145	6	11			1						594	4.8%
7:00 7:15		117	40		6	2				2				167	1.4%
7:15 7:30		148	39		1			1						189	1.5%
7:30 7:45	1	155	41	9	4	2								212	1.7%
7:45 8:00		199	32	7	6									244	2.0%
7:00 8:00	1	619	152	16	17	4		1		2				812	6.6%
8:00 8:15		185	38	6	2									231	1.9%
8:15 8:30		188	37	8	5	2		1						241	2.0%
8:30 8:45		164	45	5	2	4								220	1.8%
8:45 9:00		138	25	1	2	2								168	1.4%
8:00 9:00		675	145	20	11	8		1						860	7.0%
9:00 9:15		124	34	4	4	2		1						169	1.4%
9:15 9:30		116	32	4	3									155	1.3%
9:30 9:45	1	116	36	1	4			2						160	1.3%
9:45 10:00	2	127	34	2	8									173	1.4%
9:00 10:00	3	483	136	11	19	2		3						657	5.4%
10:00 10:15		108	27	2	6	3		2		1				149	1.2%
10:15 10:30		124	19	1	6	1		2						153	1.2%
10:30 10:45		107	24		5	1		1						138	1.1%
10:45 11:00		120	19	1	4	2		2						148	1.2%
10:00 11:00		459	89	4	21	7		7		1				588	4.8%
11:00 11:15		116	29	2	5	1								153	1.2%
11:15 11:30		111	20	3	3	1	1	2						141	1.2%
11:30 11:45	1	131	18	3	5	1		1		1				161	1.3%
11:45 12:00		135	20		3	1								159	1.3%
11:00 12:00	1	493	87	8	16	4	1	3		1				614	5.0%

Report-2.1	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway														Pace	Number	
	Direction : North Road :																
Speeds,km/h ----->	Dates : 5/7/2019														Total	Speed	in Pace
	41	51	61	71	81	91	101	111	121	131	141	151	160				
00:00 0:15				7	6	1								14	62.6-77.6	12	
0:15 0:30			1	3	2	1								7	60.4-75.4	5	
0:30 0:45			1	5	7									13	63.9-78.9	12	
0:45 1:00					1									1	59.5-74.5	1	
00:00 1:00			2	15	16	2								35	62.6-77.6	12	
1:00 1:15				1	6	1								8	68.3-83.3	8	
1:15 1:30			1	1	1									3	57.8-72.8	3	
1:30 1:45			1	3	1									5	53.5-68.5	4	
1:45 2:00					4	2								6	70.3-85.3	6	
1:00 2:00			2	5	12	3								22	68.3-83.3	8	
2:00 2:15				2	4	2								8	62.1-77.1	6	
2:15 2:30				1	1	1								3	63.3-78.3	2	
2:30 2:45				1	3									4	63.6-78.6	4	
2:45 3:00				3	2									5	56.1-71.1	4	
2:00 3:00				7	10	3								20	62.1-77.1	6	
3:00 3:15				3										3	55.1-70.1	3	
3:15 3:30					1	1	1							3	69.0-84.0	2	
3:30 3:45					1									1	62.3-77.3	1	
3:45 4:00				1		1								2	52.5-67.5	1	
3:00 4:00				4	2	2	1							9	55.1-70.1	3	
4:00 4:15				2	1	1								4	57.4-72.4	3	
4:15 4:30			1		3	2								6	70.6-85.6	5	
4:30 4:45				1	4									5	62.8-77.8	5	
4:45 5:00			1	4	2									7	50.2-65.2	5	
4:00 5:00			2	7	10	3								22	70.6-85.6	5	
5:00 5:15				3	2	1								6	59.7-74.7	5	
5:15 5:30			1	3	2	6	2							14	74.9-89.9	8	
5:30 5:45			4	6	4	1	1							16	54.8-69.8	10	
5:45 6:00			1	8	16	2								27	66.5-81.5	23	
5:00 6:00			6	20	24	10	3							63	66.5-81.5	23	
6:00 6:15			2	4	11	5								22	67.4-82.4	14	
6:15 6:30				14	11	2	1							28	61.0-76.0	22	
6:30 6:45			2	19	19	3								43	65.4-80.4	35	
6:45 7:00			10	26	20	5	1							62	63.7-78.7	42	
6:00 7:00			14	63	61	15	2							155	63.7-78.7	42	
7:00 7:15			5	17	27	8	1							58	64.6-79.6	39	
7:15 7:30			3	24	34	10	1							72	64.9-79.9	51	
7:30 7:45			2	44	24	11	1							82	62.1-77.1	64	
7:45 8:00			15	38	31	6								90	61.7-76.7	60	
7:00 8:00			25	123	116	35	3							302	62.1-77.1	64	
8:00 8:15			5	39	34	8	1							87	64.2-79.2	68	
8:15 8:30			14	29	35	5	1							84	64.2-79.2	59	
8:30 8:45			20	61	22	2								105	59.1-74.1	80	
8:45 9:00		1	9	49	22	1								82	59.9-74.9	65	
8:00 9:00		1	48	178	113	16	2							358	59.1-74.1	80	
9:00 9:15			4	36	15	4	1							60	62.1-77.1	46	
9:15 9:30			1	28	16	6								51	61.8-76.8	41	
9:30 9:45	1	2	7	32	20	8								70	62.9-77.9	49	
9:45 10:00			2	43	29	6								80	61.2-76.2	61	
9:00 10:00	1	2	14	139	80	24	1							261	61.2-76.2	61	
10:00 10:15			7	20	29	5	2							63	63.9-78.9	45	
10:15 10:30			6	21	32	3								62	62.5-77.5	51	
10:30 10:45			4	23	26	6	1							60	62.2-77.2	41	
10:45 11:00			1	24	34	10	1							70	61.8-76.8	47	
10:00 11:00			18	88	121	24	4							255	62.5-77.5	51	
11:00 11:15			2	26	24	5		1						58	63.7-78.7	47	
11:15 11:30	2		6	33	31	3								75	62.4-77.4	56	
11:30 11:45		1	10	29	29	7	1							77	64.2-79.2	49	
11:45 12:00			6	39	35	8	1							89	65.2-80.2	62	
11:00 12:00	2	1	24	127	119	23	2	1						299	65.2-80.2	62	

12:00	12:15		20	36	24	5					85	57.9-72.9	58
12:15	12:30		13	43	28	2					86	59.0-74.0	68
12:30	12:45		8	33	43	7					91	62.2-77.2	62
12:45	13:00		7	46	27	6					86	59.6-74.6	66
12:00	13:00		48	158	122	20					348	59.0-74.0	68
13:00	13:15	4	10	56	31	3					104	61.6-76.6	79
13:15	13:30		5	39	25	9	1				79	63.7-78.7	56
13:30	13:45		11	51	31	10	3				106	62.7-77.7	71
13:45	14:00		9	31	59	5					104	65.5-80.5	82
13:00	14:00	4	35	177	146	27	4				393	65.5-80.5	82
14:00	14:15		1	31	38	10	1				81	66.5-81.5	55
14:15	14:30	1	8	43	48	5	2				107	60.6-75.6	85
14:30	14:45		4	36	65	11	2				118	68.3-83.3	89
14:45	15:00		1	58	50	10					119	63.2-78.2	103
14:00	15:00	1	14	168	201	36	5				425	63.2-78.2	103
15:00	15:15		2	5	61	45	5				118	60.5-75.5	86
15:15	15:30	4	15	34	57	38	10	2			160	55.9-70.9	82
15:30	15:45		1	23	70	62	13				169	62.4-77.4	117
15:45	16:00		1	7	51	78	9	2			148	64.9-79.9	123
15:00	16:00	4	19	69	239	223	37	4			595	64.9-79.9	123
16:00	16:15			6	79	57	3				145	64.4-79.4	131
16:15	16:30			19	76	52	8				155	61.8-76.8	114
16:30	16:45	5		17	69	48	8	1	1		149	59.7-74.7	96
16:45	17:00			20	47	75	8				150	62.8-77.8	111
16:00	17:00	5		62	271	232	27	1	1		599	64.4-79.4	131
17:00	17:15	13		26	57	79	7				182	64.2-79.2	120
17:15	17:30			4	52	68	10				134	64.1-79.1	104
17:30	17:45	1		1	40	81	24				147	67.8-82.8	115
17:45	18:00	1		9	58	47	18				133	64.0-79.0	96
17:00	18:00	15		40	207	275	59				596	64.2-79.2	120
18:00	18:15			3	31	71	16	1			122	65.5-80.5	96
18:15	18:30			16	66	68	15	4			169	63.5-78.5	119
18:30	18:45	3		3	52	39	14				111	62.5-77.5	80
18:45	19:00			8	32	69	14	1			124	66.5-81.5	93
18:00	19:00	3		30	181	247	59	6			526	63.5-78.5	119
19:00	19:15			3	34	58	15				110	65.5-80.5	78
19:15	19:30			6	36	57	10	1			110	66.4-81.4	77
19:30	19:45			11	38	60	7				116	65.6-80.6	86
19:45	20:00			13	60	31	7				111	60.0-75.0	84
19:00	20:00			33	168	206	39	1			447	65.6-80.6	86
20:00	20:15	1		13	28	30	14	1			87	63.9-78.9	54
20:15	20:30			7	28	45	5		1		86	65.6-80.6	62
20:30	20:45			8	39	32	7	1			87	65.2-80.2	64
20:45	21:00			4	54	25	3				86	60.5-75.5	72
20:00	21:00	1		32	149	132	29	2	1		346	60.5-75.5	72
21:00	21:15			3	24	24	9	2			62	63.0-78.0	45
21:15	21:30	2		8	24	25	2	1			62	59.9-74.9	43
21:30	21:45			1	18	21	6	1			47	63.3-78.3	35
21:45	22:00			1	13	31	8	1			54	63.0-78.0	39
21:00	22:00	2		13	79	101	25	5			225	63.0-78.0	45
22:00	22:15				16	18	10				44	66.5-81.5	29
22:15	22:30			6	17	19	3				45	63.0-78.0	34
22:30	22:45			2	8	4	4	2			20	60.9-75.9	11
22:45	23:00				7	15	7	1			30	62.9-77.9	21
22:00	23:00			8	48	56	24	3			139	63.0-78.0	34
23:00	23:15				9	8	2				19	62.9-77.9	15
23:15	23:30				13	12	9				34	63.3-78.3	24
23:30	23:45				2	13	10				25	70.0-85.0	24
23:45	00:00				3	4	5	1			13	68.7-83.7	8
23:00	00:00				27	37	26	1			91	63.3-78.3	24
Total		8	53	539	2648	2662	568	50	3			6531	
AM PEAK		0.1%	0.8%	8.3%	40.5%	40.8%	8.7%	0.8%	0.0%				
period		2	2	20	61	35	11	2	1			105	
11:15	9:30			8:30	8:30	8:15	7:30	5:15	11:00				8:30
% of class		25.0%	3.8%	3.7%	2.3%	1.3%	1.9%	4.0%	33.3%				1.6%
PM PEAK		4	15	34	79	81	24	4	1			182	
period		15:15	15:15	15:15	16:00	17:30	17:30	18:15	16:30				17:00
% of class		50.0%	28.3%	6.3%	3.0%	3.0%	4.2%	8.0%	33.3%				2.8%

15% Percentile :	62 KPH
50% Percentile :	71 KPH
85% Percentile :	80 KPH
95% Percentile :	86 KPH

15 KPH Pace Speed:	63.1-78.1 KPH
Number in Pace:	4464
Percent in Pace:	68.4 %
Number of Vehicles >80 KPH:	887
Percent of Vehicles >80 KPH:	13.6 %
Mean Speed(average):	71 KPH

Report-2.2	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway																
	Direction : North																
	Dates : 5/8/2019																
Speeds,km/h ----->	41	51	61	71	81	91	101	111	121	131	141	151	160	Total	Pace Speed	Number in Pace	
00:00 0:15			4	5	4	1								14	69.2-84.2	9	
0:15 0:30			5	2	1		1							9	61.1-76.1	7	
0:30 0:45		2	3	4	2									11	66.8-81.8	8	
0:45 1:00			2	3	3	1								9	72.3-87.3	6	
00:00 1:00		2	14	14	10	2	1							43	69.2-84.2	9	
1:00 1:15			2	6										8	63.6-78.6	7	
1:15 1:30			2	2	1	2								7	61.4-76.4	4	
1:30 1:45		1	3	1										5	55.1-70.1	4	
1:45 2:00		1	3	2	1									7	56.6-71.6	5	
1:00 2:00		2	10	11	2	2								27	63.6-78.6	7	
2:00 2:15			1	2		2								5	64.6-79.6	3	
2:15 2:30		1	1											2	55.0-70.0	2	
2:30 2:45			1	3	1									5	63.3-78.3	4	
2:45 3:00				2		1								3	64.5-79.5	2	
2:00 3:00		1	3	7	1	3								15	63.3-78.3	4	
3:00 3:15			1	2	2									5	72.7-87.7	4	
3:15 3:30			1	1		1								3	62.4-77.4	2	
3:30 3:45			1	1										2	59.1-74.1	2	
3:45 4:00			1	3		1								5	57.8-72.8	4	
3:00 4:00			4	7	2	2								15	72.7-87.7	4	
4:00 4:15			2											2	54.8-69.8	2	
4:15 4:30			1	1										2	59.6-74.6	2	
4:30 4:45				2	3									5	69.2-84.2	5	
4:45 5:00		1	2	3	1									7	60.7-75.7	4	
4:00 5:00		1	5	6	4									16	69.2-84.2	5	
5:00 5:15			3	3	1									7	62.2-77.2	6	
5:15 5:30			5	3	4									12	62.4-77.4	8	
5:30 5:45		1	7	9	3									20	65.9-80.9	16	
5:45 6:00			6	15	6	1								28	62.0-77.0	19	
5:00 6:00		1	21	30	14	1								67	62.0-77.0	19	
6:00 6:15		1	12	6	2	3								24	62.8-77.8	17	
6:15 6:30			13	25	4	1								43	64.1-79.1	36	
6:30 6:45		2	15	19	11	3	1							51	68.1-83.1	33	
6:45 7:00		3	14	31	6		2							56	63.4-78.4	44	
6:00 7:00		6	54	81	23	7	3							174	63.4-78.4	44	
7:00 7:15		2	23	35	6									66	65.8-80.8	51	
7:15 7:30			27	28	9									64	61.2-76.2	53	
7:30 7:45		1	23	56	6									86	66.7-81.7	73	
7:45 8:00		2	41	42	8	1								94	62.7-77.7	69	
7:00 8:00		5	114	161	29	1								310	66.7-81.7	73	
8:00 8:15		4	37	33	9									83	63.5-78.5	62	
8:15 8:30		10	41	50	4	2								107	63.4-78.4	80	
8:30 8:45		7	49	38	6									100	60.3-75.3	73	
8:45 9:00		8	38	38	7	3								94	64.1-79.1	70	
8:00 9:00		29	165	159	26	5								384	63.4-78.4	80	
9:00 9:15		4	37	32	3	1								77	64.3-79.3	60	
9:15 9:30	4	5	20	21	6	2								58	64.0-79.0	35	
9:30 9:45		2	24	30	6									62	66.2-81.2	49	
9:45 10:00		1	25	33	6									65	63.7-78.7	54	
9:00 10:00	4	12	106	116	21	3								262	64.3-79.3	60	
10:00 10:15		4	30	27	7	1								69	61.6-76.6	51	
10:15 10:30		3	21	43	3									70	65.0-80.0	59	
10:30 10:45		1	24	32	7									64	63.2-78.2	52	
10:45 11:00		6	35	22	10									73	61.6-76.6	51	
10:00 11:00		14	110	124	27	1								276	65.0-80.0	59	
11:00 11:15		5	34	26	7	1								73	62.4-77.4	56	
11:15 11:30		2	19	34	4	1								60	63.7-78.7	53	
11:30 11:45	1	7	38	23	6									75	63.0-78.0	56	
11:45 12:00		1	26	37	14									78	63.0-78.0	54	
11:00 12:00	1	15	117	120	31	2								286	62.4-77.4	56	

12:00	12:15		3	44	38	7	2			94	60.4-75.4	73
12:15	12:30			26	44	13	3			86	65.0-80.0	68
12:30	12:45		4	31	36	13	2			86	61.7-76.7	57
12:45	13:00		7	25	36	10	1			79	66.5-81.5	53
12:00	13:00		14	126	154	43	8			345	60.4-75.4	73
13:00	13:15		6	50	35	8				99	63.6-78.6	72
13:15	13:30		11	36	27	5	1			80	64.5-79.5	57
13:30	13:45		5	22	38	11	1			77	67.4-82.4	55
13:45	14:00		1	43	28	18	1			91	64.5-79.5	63
13:00	14:00		23	151	128	42	3			347	63.6-78.6	72
14:00	14:15		5	34	34	12	3			88	61.9-76.9	61
14:15	14:30		9	48	61	7				125	62.8-77.8	94
14:30	14:45	1	10	37	60	11	2			121	67.5-82.5	92
14:45	15:00		3	45	55	10				114	64.6-79.6	90
14:00	15:00	1	1	27	164	210	40	5		448	62.8-77.8	94
15:00	15:15		7	61	66	8				142	63.1-78.1	118
15:15	15:30		7	13	74	53	10			157	62.1-77.1	112
15:30	15:45		7	55	50	32	4	1		149	52.2-67.2	92
15:45	16:00	23	8	23	39	10	1			104	55.6-70.6	59
15:00	16:00	23	22	98	224	161	23	1		552	63.1-78.1	118
16:00	16:15	12	2	30	55	38	1			138	58.6-73.6	85
16:15	16:30	1	16	33	85	19	5			159	55.3-70.3	104
16:30	16:45	56	3	15	6	6				86	23.1-38.1	34
16:45	17:00	34	6	13	56	53	30	5		197	62.2-77.2	95
16:00	17:00	103	27	91	202	116	36	5		580	55.3-70.3	104
17:00	17:15		2	11	66	67	20	3		169	63.8-78.8	115
17:15	17:30		12	83	63	10				168	60.3-75.3	123
17:30	17:45		7	62	80	7	1			157	65.3-80.3	129
17:45	18:00		3	59	78	18				158	65.2-80.2	126
17:00	18:00		2	33	270	288	55	4		652	65.3-80.3	129
18:00	18:15		6	46	73	20				145	66.4-81.4	109
18:15	18:30	4	9	49	63	11				136	64.8-79.8	96
18:30	18:45		6	51	60	15	1			133	64.8-79.8	98
18:45	19:00		8	50	48	9				115	65.0-80.0	85
18:00	19:00		4	29	196	244	55	1		529	66.4-81.4	109
19:00	19:15		5	38	46	17	1			107	64.0-79.0	75
19:15	19:30		3	34	58	5	2			102	64.8-79.8	88
19:30	19:45		2	26	57	21				106	68.0-83.0	81
19:45	20:00		1	23	45	19	1			89	67.3-82.3	63
19:00	20:00		11	121	206	62	4			404	64.8-79.8	88
20:00	20:15		2	49	34	8	1			94	63.7-78.7	72
20:15	20:30		2	33	43	8	1			87	63.8-78.8	70
20:30	20:45			44	43	11				98	63.4-78.4	76
20:45	21:00		1	45	28	3	1			78	61.4-76.4	66
20:00	21:00		5	171	148	30	3			357	63.4-78.4	76
21:00	21:15		3	38	18	7		1		67	61.3-76.3	52
21:15	21:30		6	24	32	4	2			68	66.1-81.1	46
21:30	21:45	1	3	30	35	7				76	65.2-80.2	59
21:45	22:00		2	24	34	7	1			68	63.5-78.5	56
21:00	22:00	1	14	116	119	25	3	1		279	65.2-80.2	59
22:00	22:15		1	16	18	13	3			51	65.4-80.4	30
22:15	22:30		2	17	17	2	1			39	63.7-78.7	29
22:30	22:45			11	21	8	1			41	68.9-83.9	29
22:45	23:00		1	19	21	11	1	1		54	64.9-79.9	35
22:00	23:00		4	63	77	34	6	1		185	64.9-79.9	35
23:00	23:15		2	6	13	5	3			29	65.8-80.8	18
23:15	23:30			16	14	2	3			35	62.1-77.1	28
23:30	23:45			12	13	6	1			32	66.9-81.9	27
23:45	00:00			4	3	2				9	61.7-76.7	7
23:00	00:00		2	38	43	15	7			105	62.1-77.1	28
Total			131	58	439	2565	2730	650	79	6	6658	
AM PEAK			2.0%	0.9%	6.6%	38.5%	41.0%	9.8%	1.2%	0.1%		
period			4	1	10	49	56	14	3	2	107	
9:15			11:30	8:15	8:30	7:30	11:45	6:00	6:45		8:15	
% of class			3.1%	1.7%	2.3%	1.9%	2.1%	2.2%	3.8%	33.3%	1.6%	
PM PEAK			56	16	55	85	80	30	5	1	197	
period			16:30	16:15	15:30	16:15	17:30	16:45	21:00		16:45	
% of class			42.7%	27.6%	12.5%	3.3%	2.9%	4.6%	6.3%	16.7%	3.0%	

15% Percentile :	62 KPH
50% Percentile :	71 KPH
85% Percentile :	80 KPH
95% Percentile :	87 KPH

15 KPH Pace Speed:	63.7-78.7 KPH
Number in Pace:	4519
Percent in Pace:	67.9 %
Number of Vehicles >80 KPH:	1008
Percent of Vehicles >80 KPH:	15.1 %
Mean Speed(average):	71 KPH

Report-2.3	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway																	
	Direction : North															Road :		
	Dates : 5/9/2019																	
Speeds,km/h ----->	41	51	61	71	81	91	101	111	121	131	141	151	160	Total	Pace Speed	Number in Pace		
00:00 0:15			10	4	2									16	59.8-74.8	12		
0:15 0:30		1	1	3	2	1								8	71.8-86.8	5		
0:30 0:45		1	5											6	63.0-78.0	6		
0:45 1:00			5	2		1								8	57.5-72.5	6		
00:00 1:00		1	17	14	4	2								38	59.8-74.8	12		
1:00 1:15			2	3	3									8	68.7-83.7	7		
1:15 1:30			2	4	2									8	69.9-84.9	7		
1:30 1:45	1	1	5			1								8	53.5-68.5	6		
1:45 2:00			2		2									4	53.5-68.5	2		
1:00 2:00	1	1	11	7	7	1								28	68.7-83.7	7		
2:00 2:15				3	1	1								5	62.5-77.5	3		
2:15 2:30				1	2	1								4	71.1-86.1	3		
2:30 2:45			2											2	55.1-70.1	2		
2:45 3:00			1	1	2	1								5	67.0-82.0	3		
2:00 3:00			3	5	5	3								16	62.5-77.5	3		
3:00 3:15				3										3	65.1-80.1	3		
3:15 3:30			3		1	1								5	54.5-69.5	3		
3:30 3:45																		
3:45 4:00			1		1									2	52.6-67.6	1		
3:00 4:00			4	3	2	1								10	65.1-80.1	3		
4:00 4:15					1									1	70.8-85.8	1		
4:15 4:30			3		1									4	56.0-71.0	3		
4:30 4:45			1	2	1									4	66.7-81.7	4		
4:45 5:00			1	5	5									11	72.2-87.2	10		
4:00 5:00			5	7	8									20	72.2-87.2	10		
5:00 5:15		1	5	3	6									15	74.6-89.6	8		
5:15 5:30			2	5	2	1		2						12	67.3-82.3	8		
5:30 5:45		1	5	9										15	65.5-80.5	13		
5:45 6:00			4	8	2	2	2							18	64.3-79.3	12		
5:00 6:00		2	16	25	10	3	2	2						60	65.5-80.5	13		
6:00 6:15			1	12	6	1								20	69.8-84.8	17		
6:15 6:30		1	10	13	8	2	1							35	63.5-78.5	22		
6:30 6:45			10	21	10	2								43	67.1-82.1	29		
6:45 7:00		4	9	32	3	1								49	65.3-80.3	40		
6:00 7:00		5	30	78	27	6	1							147	65.3-80.3	40		
7:00 7:15			11	24	25	5	2							67	65.1-80.1	43		
7:15 7:30		5	21	25	9									60	64.3-79.3	41		
7:30 7:45		6	23	49	11	3								92	66.5-81.5	64		
7:45 8:00		5	25	42	15	1								88	65.5-80.5	59		
7:00 8:00		27	93	141	40	6								307	66.5-81.5	64		
8:00 8:15		3	26	38	6	1								74	63.7-78.7	59		
8:15 8:30		9	30	53	9									101	66.5-81.5	78		
8:30 8:45		9	51	38	6									104	61.8-76.8	78		
8:45 9:00		2	36	30	5	1								74	61.6-76.6	60		
8:00 9:00			23	143	159	26	2							353	66.5-81.5	78		
9:00 9:15	6	7	11	25	16	2								67	62.2-77.2	39		
9:15 9:30			1	18	29	6	1							55	62.6-77.6	42		
9:30 9:45	2	5	5	16	30	9	2		1					70	64.3-79.3	43		
9:45 10:00			6	19	34	8								67	61.6-76.6	47		
9:00 10:00	8	12	23	78	109	25	3		1					259	61.6-76.6	47		
10:00 10:15		1	8	31	17	8								65	61.1-76.1	41		
10:15 10:30			6	26	24	5								61	61.3-76.3	43		
10:30 10:45			4	23	37	7	1							72	67.6-82.6	55		
10:45 11:00			9	32	24	4								69	62.5-77.5	51		
10:00 11:00		1	27	112	102	24	1							267	67.6-82.6	55		
11:00 11:15			7	34	21	7								69	59.7-74.7	49		
11:15 11:30			11	23	25	4	1							64	62.3-77.3	41		
11:30 11:45	1	5	14	36	25	8								89	61.6-76.6	57		
11:45 12:00			3	32	42	3	1							81	62.6-77.6	66		
11:00 12:00	1	5	35	125	113	22	2							303	62.6-77.6	66		

12:00	12:15		4	23	31	8	1					67	66.0-81.0	49
12:15	12:30	6	7	38	34	8	2					95	63.4-78.4	63
12:30	12:45		8	23	50	6						87	66.9-81.9	67
12:45	13:00		3	26	41	4	2					76	63.5-78.5	60
12:00	13:00	6	22	110	156	26	5					325	66.9-81.9	67
13:00	13:15		8	39	55	4	1					107	64.8-79.8	85
13:15	13:30		6	40	30	5						81	64.3-79.3	65
13:30	13:45		7	27	42	10	2					88	65.6-80.6	63
13:45	14:00		7	43	42	7						99	63.4-78.4	72
13:00	14:00		28	149	169	26	3					375	64.8-79.8	85
14:00	14:15		4	51	33	6						94	61.9-76.9	76
14:15	14:30	3	9	49	60	10	1					132	65.1-80.1	90
14:30	14:45	1	5	54	46	6	1					113	60.9-75.9	88
14:45	15:00	9	12	35	34	14				1		105	64.5-79.5	61
14:00	15:00	13	30	189	173	36	2			1		444	65.1-80.1	90
15:00	15:15		14	72	41	3						130	60.1-75.1	104
15:15	15:30	6	3	26	77	41	8					161	60.4-75.4	114
15:30	15:45	1	4	15	81	59	8					168	61.2-76.2	119
15:45	16:00		2	13	56	57	11					139	61.7-76.7	98
15:00	16:00	7	9	68	286	198	30					598	61.2-76.2	119
16:00	16:15		23	85	39	6						153	59.9-74.9	120
16:15	16:30		8	17	45	66	11					147	63.1-78.1	99
16:30	16:45	2	5	17	69	52	7					152	63.9-78.9	109
16:45	17:00		20	73	48	12						153	60.0-75.0	107
16:00	17:00	2	13	77	272	205	36					605	59.9-74.9	120
17:00	17:15		8	51	80	8	1					148	63.2-78.2	118
17:15	17:30	1	15	54	50	12						132	63.1-78.1	93
17:30	17:45		22	69	73	15	2					181	63.6-78.6	129
17:45	18:00		6	59	40	10						115	62.4-77.4	88
17:00	18:00	1	51	233	243	45	3					576	63.6-78.6	129
18:00	18:15		12	63	41	9						125	60.3-75.3	95
18:15	18:30		6	66	50	9						131	64.0-79.0	100
18:30	18:45		5	39	49	8						101	63.8-78.8	73
18:45	19:00		13	48	41	13						115	62.0-77.0	84
18:00	19:00		36	216	181	39						472	64.0-79.0	100
19:00	19:15	2	8	8	41	44	6			2		111	65.5-80.5	74
19:15	19:30		8	47	35	5						95	64.3-79.3	76
19:30	19:45		6	47	41	9	1					104	62.4-77.4	75
19:45	20:00		2	44	42	8						96	62.0-77.0	75
19:00	20:00	2	8	24	179	162	28			3		406	64.3-79.3	76
20:00	20:15		1	29	50	13	1					94	65.4-80.4	72
20:15	20:30		12	44	47	6						109	63.9-78.9	86
20:30	20:45		4	30	28	11						73	63.2-78.2	55
20:45	21:00		7	28	19	5	1					60	64.1-79.1	44
20:00	21:00		24	131	144	35	2					336	63.9-78.9	86
21:00	21:15		3	26	29	6						64	61.1-76.1	47
21:15	21:30		3	30	33	5						71	66.1-81.1	58
21:30	21:45		1	16	31	6						54	62.4-77.4	44
21:45	22:00		1	11	22	4						38	62.4-77.4	29
21:00	22:00		8	83	115	21						227	66.1-81.1	58
22:00	22:15		4	15	26	5	1					51	64.3-79.3	38
22:15	22:30		2	12	16	5	1					36	66.1-81.1	24
22:30	22:45		1	9	18	9	2					39	68.2-83.2	29
22:45	23:00		1	8	11	4	2			1		27	68.5-83.5	18
22:00	23:00		8	44	71	23	6			1		153	64.3-79.3	38
23:00	23:15		1	9	14	2						26	65.6-80.6	22
23:15	23:30		6	11	4	1						22	66.9-81.9	18
23:30	23:45	2	9	14	6	1						32	66.2-81.2	23
23:45	00:00		1	5	4					1		12	74.2-89.2	8
23:00	00:00		3	25	44	16	2			1		92	66.2-81.2	23
Total			20	69	523	2554	2624	561	56	5	4	1		6417
AM PEAK			0.3%	1.1%	8.2%	39.8%	40.9%	8.7%	0.9%	0.1%	0.1%	0.0%		
period			6	7	14	51	53	15	3	2	2			104
% of class			30.0%	10.1%	2.7%	2.0%	2.0%	2.7%	5.4%	40.0%	50.0%			1.6%
PM PEAK			6	9	26	85	80	15	2	1	1	1		181
period			15:15	14:45	15:15	16:00	17:00	17:30	12:15	14:45	22:45	23:45		17:30
% of class			30.0%	13.0%	5.0%	3.3%	3.0%	2.7%	3.6%	20.0%	25.0%	100.0%		2.8%

15% Percentile :	62 KPH
50% Percentile :	71 KPH
85% Percentile :	80 KPH
95% Percentile :	86 KPH

15 KPH Pace Speed:	63.6-78.6 KPH
Number in Pace:	4396
Percent in Pace:	68.5 %
Number of Vehicles >80 KPH:	889
Percent of Vehicles >80 KPH:	13.9 %
Mean Speed(average):	71 KPH

Report-2.4	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway														Total	Pace Speed	Number in Pace
	Direction : South Road :																
Speeds,km/h ----->	41	51	61	71	81	91	101	111	121	131	141	151	160				
00:00 0:15			3	3	1									7	66.6-81.6	7	
0:15 0:30																	
0:30 0:45			2	1	1	2								6	67.8-82.8	4	
0:45 1:00				4										4	61.9-76.9	4	
00:00 1:00			5	8	2	2								17	66.6-81.6	7	
1:00 1:15				2	1									3	56.2-71.2	3	
1:15 1:30		1		1										2	34.3-49.3	1	
1:30 1:45			1	1	2									4	64.3-79.3	3	
1:45 2:00				1	2	1								4	63.3-78.3	3	
1:00 2:00		1	1	5	5	1								13	56.2-71.2	3	
2:00 2:15					1			1						2	65.4-80.4	1	
2:15 2:30				1	2			1						4	58.4-73.4	3	
2:30 2:45					2									2	63.8-78.8	2	
2:45 3:00				1										1	52.0-67.0	1	
2:00 3:00				2	5			2						9	58.4-73.4	3	
3:00 3:15			3	1	2	1								7	50.8-65.8	4	
3:15 3:30				1	1	2								4	56.7-71.7	2	
3:30 3:45				1	7									8	64.3-79.3	7	
3:45 4:00				1	2			1						4	64.3-79.3	3	
3:00 4:00			3	4	12	3		1						23	64.3-79.3	7	
4:00 4:15			1	3	6	1								11	68.8-83.8	8	
4:15 4:30			1	9	6	3								19	62.1-77.1	14	
4:30 4:45				11	16	2	1							30	63.7-78.7	24	
4:45 5:00			3	5	10	8	3							29	67.6-82.6	16	
4:00 5:00			5	28	38	14	4							89	63.7-78.7	24	
5:00 5:15				5	19	12	2							38	68.0-83.0	28	
5:15 5:30			1	15	24	13	2							55	67.7-82.7	37	
5:30 5:45				14	34	11	4							63	68.6-83.6	51	
5:45 6:00			6	36	47	14	2							105	65.3-80.3	72	
5:00 6:00			7	70	124	50	10							261	65.3-80.3	72	
6:00 6:15				38	49	6	1							94	65.3-80.3	80	
6:15 6:30			1	22	50	24	2							99	67.6-82.6	71	
6:30 6:45			5	40	60	20								125	64.1-79.1	91	
6:45 7:00			6	51	44	12	1							114	62.0-77.0	79	
6:00 7:00			12	151	203	62	4							432	64.1-79.1	91	
7:00 7:15			1	35	53	18								107	67.0-82.0	80	
7:15 7:30			1	35	54	24								114	65.5-80.5	82	
7:30 7:45			8	53	64	10								135	64.0-79.0	99	
7:45 8:00			6	63	64	14								147	62.2-77.2	118	
7:00 8:00			16	186	235	66								503	62.2-77.2	118	
8:00 8:15			18	74	57	10	1							160	61.7-76.7	114	
8:15 8:30			5	82	50	9								146	61.0-76.0	112	
8:30 8:45		1	5	42	51	15								114	61.6-76.6	79	
8:45 9:00			7	56	56	5								124	62.7-77.7	102	
8:00 9:00		1	35	254	214	39	1							544	61.7-76.7	114	
9:00 9:15	10	2	3	47	32	5								99	61.8-76.8	72	
9:15 9:30			7	57	43	6	2							115	60.6-75.6	85	
9:30 9:45			11	36	45	9	1							102	62.8-77.8	73	
9:45 10:00			13	35	30	11								89	61.8-76.8	59	
9:00 10:00	10	2	34	175	150	31	3							405	60.6-75.6	85	
10:00 10:15	11	1	4	37	45	5								103	62.0-77.0	75	
10:15 10:30		1	7	38	41	4	1							92	64.0-79.0	73	
10:30 10:45			3	36	47	7								93	65.6-80.6	80	
10:45 11:00			2	22	56	7	1							88	66.4-81.4	76	
10:00 11:00	11	2	16	133	189	23	2							376	65.6-80.6	80	
11:00 11:15			1	28	26	6	3							64	64.7-79.7	49	
11:15 11:30		1	4	47	26	6	1							85	62.0-77.0	67	
11:30 11:45			4	31	28	9	1	1						74	64.3-79.3	56	
11:45 12:00			5	28	35	10	1							79	60.2-75.2	54	
11:00 12:00		1	14	134	115	31	6	1						302	62.0-77.0	67	

12:00	12:15	1	6	28	36	8	1					80	63.1-78.1	53
12:15	12:30		3	26	24	9						62	64.6-79.6	43
12:30	12:45		4	26	30	12						72	67.6-82.6	51
12:45	13:00	1	6	43	26	6	2					84	59.8-74.8	62
12:00	13:00	2	19	123	116	35	3					298	59.8-74.8	62
13:00	13:15	2	3	7	26	32	7					77	64.2-79.2	50
13:15	13:30		5	22	20	9	2					58	64.3-79.3	35
13:30	13:45		4	33	22	3						62	64.4-79.4	49
13:45	14:00		4	34	32	8						78	60.6-75.6	57
13:00	14:00	2	3	20	115	106	27	2				275	60.6-75.6	57
14:00	14:15		13	34	33	9						89	60.9-75.9	59
14:15	14:30		6	22	40	8	1					77	66.7-81.7	53
14:30	14:45		11	35	29	6	2					83	61.7-76.7	54
14:45	15:00		4	48	36	7						95	66.3-81.3	73
14:00	15:00		34	139	138	30	3					344	66.3-81.3	73
15:00	15:15		4	27	42	9	1					83	66.4-81.4	62
15:15	15:30	1	8	23	35	8	2					77	63.5-78.5	55
15:30	15:45		1	33	31	15	2					82	65.9-80.9	55
15:45	16:00		9	32	33	3		1				78	65.4-80.4	58
15:00	16:00	1	22	115	141	35	5	1				320	66.4-81.4	62
16:00	16:15		14	19	50	18	1					102	66.6-81.6	66
16:15	16:30		4	22	61	9	1					97	67.0-82.0	76
16:30	16:45		5	33	40	15	2	1				96	62.6-77.6	66
16:45	17:00		8	40	45	18	1	1				113	67.7-82.7	76
16:00	17:00		31	114	196	60	5	2				408	67.0-82.0	76
17:00	17:15	1	1	24	61	17	1	1				106	67.9-82.9	86
17:15	17:30	1	2	39	53	21	2					118	64.4-79.4	81
17:30	17:45		2	18	53	22						95	69.5-84.5	71
17:45	18:00	1	3	15	53	35	2	1				110	70.3-85.3	84
17:00	18:00	1	2	8	96	220	95	5	2			429	67.9-82.9	86
18:00	18:15		42	58	21	1						122	65.3-80.3	94
18:15	18:30		1	9	60	29	1	1				101	72.1-87.1	79
18:30	18:45		4	10	37	25	3					79	72.1-87.1	55
18:45	19:00		17	28	21	4						70	75.9-90.9	44
18:00	19:00		5	78	183	96	9	1				372	65.3-80.3	94
19:00	19:15		1	15	30	12						58	65.0-80.0	42
19:15	19:30		1	19	27	12	3					62	66.5-81.5	46
19:30	19:45	1	17	40	13	1	1					73	64.6-79.6	55
19:45	20:00	1	13	6	37	13	2					72	69.2-84.2	47
19:00	20:00	1	1	15	57	134	50	6	1			265	64.6-79.6	55
20:00	20:15		13	22	10	2						47	68.2-83.2	34
20:15	20:30		12	17	5	2						36	65.4-80.4	27
20:30	20:45		1	22	21	7	3					54	64.0-79.0	37
20:45	21:00		1	11	14	4						30	60.5-75.5	19
20:00	21:00		2	58	74	26	7					167	64.0-79.0	37
21:00	21:15		4	21	20	4						49	61.1-76.1	36
21:15	21:30		1	24	25	2	1					53	64.3-79.3	48
21:30	21:45		2	15	17		1					35	59.2-74.2	30
21:45	22:00		6	7	5	2						20	67.0-82.0	14
21:00	22:00		7	66	69	11	4					157	64.3-79.3	48
22:00	22:15		6	8	5							19	68.7-83.7	14
22:15	22:30		6	6	7							19	63.8-78.8	12
22:30	22:45	1	6	5	2							14	62.8-77.8	11
22:45	23:00		3	7	1							11	65.1-80.1	9
22:00	23:00	1	21	26	15							63	68.7-83.7	14
23:00	23:15		3	4	3							10	61.6-76.6	7
23:15	23:30	1	6	11								18	66.0-81.0	17
23:30	23:45		1	7	3							11	66.4-81.4	9
23:45	00:00		2	4	1							7	62.5-77.5	6
23:00	00:00		1	12	26	7						46	66.0-81.0	17
Total		26	15	308	2141	2727	809	81	11			6118		
AM PEAK		0.4%	0.2%	5.0%	35.0%	44.6%	13.2%	1.3%	0.2%			160		
period		11	2	18	82	64	24	4	1					
% of class		10:00	9:00	8:00	8:15	7:30	6:15	5:30	2:00					
PM PEAK		42.3%	13.3%	5.8%	3.8%	2.3%	3.0%	4.9%	9.1%			122		
period		2	3	14	48	61	35	4	1					
% of class		13:00	13:00	16:00	14:45	16:15	17:45	18:45	15:45					
		7.7%	20.0%	4.5%	2.2%	2.2%	4.3%	4.9%	9.1%			2.0%		

15% Percentile : **64** KPH
 50% Percentile : **73** KPH
 85% Percentile : **81** KPH
 95% Percentile : **88** KPH

15 KPH Pace Speed: **65.0-80.0** KPH
 Number in Pace: **4166**
 Percent in Pace: **68.1** %
 Number of Vehicles >80 KPH: **1174**
 Percent of Vehicles >80 KPH: **19.2** %
 Mean Speed(average): **73** KPH

Report-2.5	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway														Total	Pace Speed	Number in Pace
	Direction : South Road :																
Speeds,km/h ----->	41	51	61	71	81	91	101	111	121	131	141	151	160				
00:00 0:15				4	2									6	72.4-87.4	6	
0:15 0:30			2	2	1									5	58.1-73.1	4	
0:30 0:45			5	2	1									8	66.1-81.1	8	
0:45 1:00			3	1										4	60.0-75.0	4	
00:00 1:00			10	9	4									23	66.1-81.1	8	
1:00 1:15			1	1										2	60.2-75.2	2	
1:15 1:30			2	2	1									5	63.5-78.5	4	
1:30 1:45			1											1	53.9-68.9	1	
1:45 2:00			1	2										3	64.8-79.8	3	
1:00 2:00			5	5	1									11	63.5-78.5	4	
2:00 2:15			1											1	41.0-56.0	1	
2:15 2:30					1	1								2	77.5-92.5	2	
2:30 2:45			1	1										2	62.8-77.8	2	
2:45 3:00			2		2									4	68.2-83.2	3	
2:00 3:00			1	3	1	3	1							9	68.2-83.2	3	
3:00 3:15			1	1	1	1								4	67.6-82.6	2	
3:15 3:30			1	3										4	62.3-77.3	3	
3:30 3:45				1	2	1								4	73.9-88.9	3	
3:45 4:00				2	2	1								5	67.6-82.6	4	
3:00 4:00			1	2	6	5	3							17	67.6-82.6	4	
4:00 4:15				4	7	2								13	60.1-75.1	10	
4:15 4:30			1	8	8	4								21	60.4-75.4	14	
4:30 4:45			1	8	9	5	3							26	69.5-84.5	14	
4:45 5:00				5	17	6	1							29	65.0-80.0	22	
4:00 5:00			2	25	41	17	4							89	65.0-80.0	22	
5:00 5:15			2	11	15	7	1							36	64.5-79.5	25	
5:15 5:30			3	6	21	14	1							45	68.8-83.8	33	
5:30 5:45			1	24	38	6	3							72	65.0-80.0	60	
5:45 6:00			11	23	45	10								89	67.9-82.9	61	
5:00 6:00			17	64	119	37	5							242	67.9-82.9	61	
6:00 6:15			3	36	42	14								95	65.0-80.0	66	
6:15 6:30				26	51	23	2		1					103	69.6-84.6	79	
6:30 6:45				35	57	13	1							106	66.6-81.6	82	
6:45 7:00				25	59	25	3							112	68.2-83.2	84	
6:00 7:00			3	122	209	75	6		1					416	68.2-83.2	84	
7:00 7:15			5	9	61	20	1							96	70.2-85.2	78	
7:15 7:30			1	24	54	25	1							105	69.9-84.9	81	
7:30 7:45	5	2	10	55	52	13	1							138	66.0-81.0	89	
7:45 8:00			13	54	73	19	1	1	1					162	62.3-77.3	105	
7:00 8:00	5	2	29	142	240	77	4	1	1					501	62.3-77.3	105	
8:00 8:15			21	68	56	15	1							161	62.5-77.5	97	
8:15 8:30			2	52	63	14	2							133	62.3-77.3	102	
8:30 8:45			7	67	56	7								137	63.4-78.4	111	
8:45 9:00			4	45	47	11								107	65.9-80.9	82	
8:00 9:00			34	232	222	47	3							538	63.4-78.4	111	
9:00 9:15			6	43	49	13								111	62.9-77.9	79	
9:15 9:30			4	42	42	7								95	63.6-78.6	74	
9:30 9:45			4	36	45	4	2							91	64.5-79.5	73	
9:45 10:00	1	1	9	50	40	6								107	62.7-77.7	82	
9:00 10:00	1	1	23	171	176	30	2							404	62.7-77.7	82	
10:00 10:15			3	22	34	24	7	3						93	54.1-69.1	51	
10:15 10:30			1	6	38	24	7	1						77	59.9-74.9	60	
10:30 10:45			4	31	33	7	1							76	64.7-79.7	58	
10:45 11:00			1	6	30	31	5							73	60.8-75.8	49	
10:00 11:00			5	38	133	112	26	5						319	59.9-74.9	60	
11:00 11:15			1	6	39	19	9	1						75	60.5-75.5	52	
11:15 11:30				8	40	31	4	2	1					86	62.4-77.4	65	
11:30 11:45			3	5	30	28	5							71	63.5-78.5	52	
11:45 12:00			2	11	32	28	6	2						81	62.0-77.0	53	
11:00 12:00			6	30	141	106	24	5	1					313	62.4-77.4	65	

12:00	12:15		8	41	23	6	2				80	60.6-75.6	55
12:15	12:30		15	30	34	17					96	64.6-79.6	55
12:30	12:45		1	26	30	4	2				63	65.7-80.7	50
12:45	13:00		11	31	44	6	1				93	64.2-79.2	67
12:00	13:00		35	128	131	33	5				332	64.2-79.2	67
13:00	13:15		5	35	21	1	1				63	59.1-74.1	52
13:15	13:30			31	34	6					71	64.3-79.3	60
13:30	13:45		4	40	32	5					81	62.8-77.8	66
13:45	14:00		15	36	17	8					76	58.8-73.8	54
13:00	14:00		24	142	104	20	1				291	62.8-77.8	66
14:00	14:15		7	43	35	8					93	61.8-76.8	69
14:15	14:30		7	28	40	4	2				81	60.3-75.3	56
14:30	14:45		7	20	43	5					75	63.6-78.6	61
14:45	15:00		2	14	34	36	7			1	94	60.6-75.6	65
14:00	15:00		2	35	125	154	24	2		1	343	61.8-76.8	69
15:00	15:15		2	50	23	9	1				85	59.2-74.2	68
15:15	15:30		2	3	39	49	14	1			108	62.7-77.7	76
15:30	15:45		1	31	34	7	2				75	65.4-80.4	58
15:45	16:00		5	5	26	62	22			1	121	58.6-73.6	83
15:00	16:00		5	7	32	182	128	30	4	1	389	58.6-73.6	83
16:00	16:15		2	3	41	29	13	2			90	61.9-76.9	62
16:15	16:30			10	48	54	8				120	63.0-78.0	91
16:30	16:45		8	9	13	57	27	2	1		117	58.8-73.8	76
16:45	17:00		11	2	6	53	37	7	1		117	63.4-78.4	81
16:00	17:00		19	13	32	199	147	30	4		444	63.0-78.0	91
17:00	17:15		1	3	32	57	15	1			109	65.3-80.3	84
17:15	17:30			2	43	57	10	2			114	63.3-78.3	93
17:30	17:45			1	39	56	9	1			106	63.1-78.1	88
17:45	18:00			10	21	63	15	2			111	65.9-80.9	79
17:00	18:00		1	16	135	233	49	6			440	63.3-78.3	93
18:00	18:15			2	28	47	13				90	66.4-81.4	68
18:15	18:30			7	23	68	19	2			119	67.1-82.1	94
18:30	18:45			2	20	42	10				74	68.2-83.2	59
18:45	19:00				38	38	6	3	1		86	62.3-77.3	73
18:00	19:00			11	109	195	48	5	1		369	67.1-82.1	94
19:00	19:15			3	26	35	6	2			72	62.4-77.4	52
19:15	19:30			2	37	28	12				79	61.4-76.4	55
19:30	19:45		1	3	18	33	11	1			67	66.8-81.8	48
19:45	20:00			4	29	34	3	1			71	64.3-79.3	56
19:00	20:00		1	12	110	130	32	4			289	64.3-79.3	56
20:00	20:15			3	25	30	6				64	66.7-81.7	50
20:15	20:30			3	36	35	7				81	64.4-79.4	66
20:30	20:45		1	6	45	21	2				75	59.9-74.9	62
20:45	21:00			5	29	28	3				65	60.5-75.5	48
20:00	21:00		1	17	135	114	18				285	64.4-79.4	66
21:00	21:15			8	14	12	2				36	56.3-71.3	21
21:15	21:30			1	21	21					43	61.8-76.8	39
21:30	21:45				11	17	1				29	62.7-77.7	25
21:45	22:00				17	14	3	1	1		36	61.5-76.5	30
21:00	22:00			9	63	64	6	1	1		144	61.8-76.8	39
22:00	22:15			2	8	10	5	2			27	62.5-77.5	18
22:15	22:30				11	16	4	1			32	65.8-80.8	25
22:30	22:45			1	10	16	1				28	64.2-79.2	25
22:45	23:00			2	7	9	2		1		21	65.6-80.6	15
22:00	23:00			5	36	51	12	3	1		108	65.8-80.8	25
23:00	23:15				1	7	2	1			11	69.1-84.1	9
23:15	23:30				6	6	3				15	61.4-76.4	11
23:30	23:45				6	6					12	63.0-78.0	12
23:45	00:00			1	4	4	5	2			16	73.8-88.8	9
23:00	00:00			1	17	23	10	3			54	63.0-78.0	12

Total	30	39	407	2431	2720	658	76	6	3	6370
AM PEAK	0.5%	0.6%	6.4%	38.2%	42.7%	10.3%	1.2%	0.1%	0.0%	
period	5	3	22	68	73	25	3	1	1	162
7:30		10:00	10:00	8:00	7:45	6:45	4:30	7:45	6:15	7:45
% of class	16.7%	7.7%	5.4%	2.8%	2.7%	3.8%	3.9%	16.7%	33.3%	2.5%
PM PEAK	11	9	26	62	68	19	3	1	1	121
period	16:45	16:30	15:45	15:45	18:15	18:15	18:45	15:45	14:45	15:45
% of class	36.7%	23.1%	6.4%	2.6%	2.5%	2.9%	3.9%	16.7%	33.3%	1.9%

15% Percentile :	63 KPH
50% Percentile :	72 KPH
85% Percentile :	80 KPH
95% Percentile :	87 KPH

15 KPH Pace Speed:	63.6-78.6 KPH
Number in Pace:	4359
Percent in Pace:	68.4 %
Number of Vehicles >80 KPH:	1015
Percent of Vehicles >80 KPH:	15.9 %
Mean Speed(average):	72 KPH

Report-2.6	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway														Total	Pace Speed	Number in Pace
	Direction : South Road :																
Speeds,km/h ----->	41	51	61	71	81	91	101	111	121	131	141	151	160				
00:00 0:15				2	2	2	1								7	67.1-82.1	5
0:15 0:30				2	3										5	63.0-78.0	5
0:30 0:45			1	1	1	1									4	66.8-81.8	3
0:45 1:00				2	1										3	57.3-72.3	3
00:00 1:00			1	7	7	3	1								19	67.1-82.1	5
1:00 1:15					3	1									4	66.5-81.5	4
1:15 1:30					4										4	63.9-78.9	4
1:30 1:45			2	2	1										5	49.0-64.0	4
1:45 2:00			1		2										3	57.3-72.3	2
1:00 2:00			3	2	10	1									16	66.5-81.5	4
2:00 2:15					2	1									3	63.6-78.6	2
2:15 2:30							1								1	84.9-99.9	1
2:30 2:45			1	1	1										3	55.3-70.3	2
2:45 3:00																	
2:00 3:00				1	1	3	1	1							7	63.6-78.6	2
3:00 3:15	1			1	1	1									3	15.5-30.5	1
3:15 3:30			1	1	3	1									6	65.0-80.0	4
3:30 3:45					5	2									7	70.8-85.8	7
3:45 4:00			1	2	2		1								6	63.5-78.5	4
3:00 4:00	1		2	4	10	4	1								22	70.8-85.8	7
4:00 4:15				3	4		2								9	58.3-73.3	5
4:15 4:30				4	8	4									16	63.2-78.2	12
4:30 4:45			1	5	9	5									20	63.3-78.3	13
4:45 5:00				4	19	6	3								32	65.6-80.6	22
4:00 5:00			1	16	40	15	5								77	65.6-80.6	22
5:00 5:15		1		4	20	13	2								40	68.8-83.8	32
5:15 5:30			1	18	25	4	1								49	62.0-77.0	38
5:30 5:45			5	23	23	3	3								57	63.8-78.8	39
5:45 6:00			1	29	39	11									80	65.1-80.1	65
5:00 6:00		1	7	74	107	31	6								226	65.1-80.1	65
6:00 6:15				24	67	13	1								105	68.7-83.7	91
6:15 6:30			1	31	64	13	1								110	66.3-81.3	92
6:30 6:45			2	31	47	21	1								102	66.5-81.5	74
6:45 7:00			5	40	66	18	1								130	66.7-81.7	98
6:00 7:00			8	126	244	65	4								447	66.7-81.7	98
7:00 7:15				8	33	48	11								100	65.0-80.0	71
7:15 7:30	4	7	5	45	59	9									129	64.8-79.8	94
7:30 7:45	2	3	16	48	42	9									120	60.9-75.9	78
7:45 8:00		1	21	75	46	13									156	59.2-74.2	111
7:00 8:00	6	11	50	201	195	42									505	59.2-74.2	111
8:00 8:15			22	68	56	11									157	60.6-75.6	107
8:15 8:30	1	2	15	52	62	8									140	62.9-77.9	101
8:30 8:45			13	58	40	5									116	61.0-76.0	86
8:45 9:00			4	32	48	10									94	62.0-77.0	73
8:00 9:00	1	2	54	210	206	34									507	60.6-75.6	107
9:00 9:15		1	7	54	34	6									102	62.2-77.2	83
9:15 9:30			1	16	27	55	1								100	61.6-76.6	75
9:30 9:45			1	3	30	45	9	2							90	61.8-76.8	64
9:45 10:00		2	1	9	49	38	6	1							106	63.5-78.5	78
9:00 10:00		3	3	35	160	172	22	3							398	62.2-77.2	83
10:00 10:15			2	3	28	47	4								84	66.1-81.1	69
10:15 10:30			1	5	56	24	6								92	59.5-74.5	76
10:30 10:45				3	37	21	4	1							66	59.7-74.7	51
10:45 11:00				8	27	38	5	1							79	64.3-79.3	55
10:00 11:00			3	19	148	130	19	2							321	59.5-74.5	76
11:00 11:15			1	10	42	27	4								84	61.6-76.6	61
11:15 11:30			1	8	32	30	6								77	62.2-77.2	57
11:30 11:45	2	11	8	26	22	3									72	61.2-76.2	45
11:45 12:00			8	37	26	7									78	63.5-78.5	55
11:00 12:00	2	13	34	137	105	20									311	61.6-76.6	61

12:00	12:15			10	35	33	3				81	63.6-78.6	63
12:15	12:30			3	23	27	5	1			59	64.7-79.7	45
12:30	12:45	1	1	3	23	42	7				77	65.6-80.6	61
12:45	13:00				29	39	8	1			77	64.6-79.6	65
12:00	13:00	1	1	16	110	141	23	2			294	64.6-79.6	65
13:00	13:15			2	6	39	28				75	61.6-76.6	60
13:15	13:30				7	42	29	5	1		84	58.8-73.8	64
13:30	13:45		1		9	36	20	3			69	60.6-75.6	54
13:45	14:00	1			2	40	25	9	3		80	61.6-76.6	56
13:00	14:00	1	3	24	157	102	17	4			308	58.8-73.8	64
14:00	14:15			1	14	44	24	3			86	60.2-75.2	64
14:15	14:30				13	41	17	3			74	57.9-72.9	59
14:30	14:45				6	32	20	6	2		66	59.0-74.0	49
14:45	15:00				3	30	44	8			85	64.5-79.5	69
14:00	15:00	1		36	147	105	20	2			311	64.5-79.5	69
15:00	15:15				7	32	28	12			79	62.8-77.8	58
15:15	15:30		2		16	29	36	8	1		92	66.2-81.2	56
15:30	15:45	3	2		3	32	42	3	2		87	62.8-77.8	65
15:45	16:00				7	33	30	5	1		76	58.6-73.6	50
15:00	16:00	3	4	33	126	136	28	4			334	62.8-77.8	65
16:00	16:15				4	39	43	6			92	62.6-77.6	75
16:15	16:30				7	27	42	17	2		95	68.6-83.6	67
16:30	16:45				6	35	36	11	2	1	91	64.8-79.8	63
16:45	17:00				3	45	43	16	5		112	63.2-78.2	76
16:00	17:00			20	146	164	50	9	1		390	63.2-78.2	76
17:00	17:15				6	38	26	8	5		83	60.6-75.6	52
17:15	17:30				5	24	48	22	2		101	68.0-83.0	73
17:30	17:45				9	38	33	8			88	61.7-76.7	64
17:45	18:00				4	27	50	13			94	65.9-80.9	71
17:00	18:00			24	127	157	51	7			366	68.0-83.0	73
18:00	18:15				3	28	48	17	1		97	67.7-82.7	73
18:15	18:30				16	34	45	8			103	65.7-80.7	67
18:30	18:45				2	28	37	6	3		76	63.9-78.9	60
18:45	19:00				3	18	35	7	1		64	67.5-82.5	49
18:00	19:00			24	108	165	38	5			340	67.7-82.7	73
19:00	19:15				2	18	39	10	1		70	63.1-78.1	54
19:15	19:30				3	14	17	11	2		47	71.3-86.3	26
19:30	19:45					15	20	10		1	46	66.3-81.3	33
19:45	20:00				1	18	16	8			43	64.5-79.5	27
19:00	20:00			6	65	92	39	3	1		206	63.1-78.1	54
20:00	20:15				2	6	43	6	1		58	67.5-82.5	50
20:15	20:30				5	9	18	9		1	42	69.7-84.7	29
20:30	20:45				4	15	21	5			45	62.0-77.0	33
20:45	21:00				6	16	9	3			34	61.3-76.3	23
20:00	21:00			17	46	91	23	1	1		179	67.5-82.5	50
21:00	21:15				1	12	12	4			29	62.7-77.7	24
21:15	21:30				3	21	13	3			40	59.7-74.7	34
21:30	21:45				3	13	12	4			32	65.6-80.6	21
21:45	22:00				1	11	20	3			35	63.8-78.8	29
21:00	22:00			8	57	57	14				136	59.7-74.7	34
22:00	22:15				1	7	12	4	1		25	62.2-77.2	16
22:15	22:30				3	9	12	2	2		28	61.9-76.9	19
22:30	22:45				1	7	7	3			18	63.7-78.7	13
22:45	23:00				3	6	6	3	2	1	21	64.9-79.9	12
22:00	23:00			8	29	37	12	5	1		92	61.9-76.9	19
23:00	23:15					4	4	3			11	61.1-76.1	7
23:15	23:30					1	8				9	62.3-77.3	9
23:30	23:45						6	2			8	70.2-85.2	8
23:45	00:00					1	1				2	57.1-72.1	2
23:00	00:00			6	19	5					30	62.3-77.3	9
Total		18	42	431	2210	2495	577	64	4	1		5842	
AM PEAK		0.3%	0.7%	7.4%	37.8%	42.7%	9.9%	1.1%	0.1%	0.0%		157	
period		4	11	22	75	67	21	3	1				
% of class	7:15	11:30	8:00	7:45	6:00	6:30	4:45	3:45				8:00	
													2.7%
PM PEAK		3	2	16	45	50	22	5	1	1		112	
period	15:30	13:00	15:15	16:45	17:45	17:15	16:45	16:30	22:45			16:45	
% of class													1.9%

15% Percentile :	63 KPH
50% Percentile :	72 KPH
85% Percentile :	80 KPH
95% Percentile :	87 KPH

15 KPH Pace Speed:	63.6-78.6 KPH
Number in Pace:	4015
Percent in Pace:	68.7 %
Number of Vehicles >80 KPH:	896
Percent of Vehicles >80 KPH:	15.3 %
Mean Speed(average):	72 KPH

Report-2.7	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway														Total	Pace Speed	Number in Pace
	Direction : North + South							Road :									
	Dates : 5/7/2019																
Speeds,km/h ----->	41	51	61	71	81	91	101	111	121	131	141	151	160				
00:00 0:15				10	9	2									21	66.0-81.0	18
0:15 0:30			1	3	2	1									7	60.4-75.4	5
0:30 0:45			1	7	8	1	2								19	63.9-78.9	15
0:45 1:00					5										5	61.9-76.9	5
00:00 1:00			2	20	24	4	2								52	66.0-81.0	18
1:00 1:15				3	7	1									11	63.0-78.0	10
1:15 1:30		1	1	2	1										5	57.8-72.8	4
1:30 1:45			2	4	3										9	54.1-69.1	6
1:45 2:00				1	6	3									10	71.6-86.6	9
1:00 2:00		1	3	10	17	4									35	63.0-78.0	10
2:00 2:15				2	5	2		1							10	65.4-80.4	7
2:15 2:30				2	3	1		1							7	63.3-78.3	5
2:30 2:45				1	5										6	63.8-78.8	6
2:45 3:00				4	2										6	56.1-71.1	5
2:00 3:00				9	15	3		2							29	65.4-80.4	7
3:00 3:15			3	4	2	1									10	55.1-70.1	7
3:15 3:30				1	2	3	1								7	70.6-85.6	4
3:30 3:45				1	8										9	64.3-79.3	8
3:45 4:00				2	2	1		1							6	64.3-79.3	4
3:00 4:00			3	8	14	5	1	1							32	64.3-79.3	8
4:00 4:15			1	5	7	2									15	58.2-73.2	10
4:15 4:30			2	9	9	5									25	62.1-77.1	16
4:30 4:45				12	20	2	1								35	63.7-78.7	29
4:45 5:00			4	9	12	8	3								36	67.6-82.6	18
4:00 5:00			7	35	48	17	4								111	63.7-78.7	29
5:00 5:15				8	21	13	2								44	68.0-83.0	31
5:15 5:30			2	18	26	19	4								69	67.7-82.7	42
5:30 5:45			4	20	38	12	5								79	67.3-82.3	57
5:45 6:00			7	44	63	16	2								132	65.3-80.3	94
5:00 6:00			13	90	148	60	13								324	65.3-80.3	94
6:00 6:15			2	42	60	11	1								116	67.4-82.4	93
6:15 6:30			1	36	61	26	3								127	67.6-82.6	93
6:30 6:45			7	59	79	23									168	66.1-81.1	126
6:45 7:00			16	77	64	17	2								176	63.7-78.7	120
6:00 7:00			26	214	264	77	6								587	66.1-81.1	126
7:00 7:15			6	52	80	26	1								165	66.7-81.7	116
7:15 7:30			4	59	88	34	1								186	64.9-79.9	130
7:30 7:45			10	97	88	21	1								217	61.7-76.7	158
7:45 8:00			21	101	95	20									237	62.2-77.2	178
7:00 8:00			41	309	351	101	3								805	62.2-77.2	178
8:00 8:15			23	113	91	18	2								247	64.2-79.2	180
8:15 8:30			19	111	85	14	1								230	64.5-79.5	170
8:30 8:45		1	25	103	73	17									219	61.4-76.4	157
8:45 9:00		1	16	105	78	6									206	62.5-77.5	162
8:00 9:00		2	83	432	327	55	3								902	64.2-79.2	180
9:00 9:15	10	2	7	83	47	9	1								159	62.2-77.2	118
9:15 9:30			8	85	59	12	2								166	62.2-77.2	124
9:30 9:45	1	2	18	68	65	17	1								172	62.8-77.8	121
9:45 10:00			15	78	59	17									169	61.8-76.8	119
9:00 10:00	11	4	48	314	230	55	4								666	62.2-77.2	124
10:00 10:15	11	1	11	57	74	10	2								166	62.4-77.4	118
10:15 10:30		1	13	59	73	7	1								154	64.0-79.0	122
10:30 10:45			7	59	73	13	1								153	64.0-79.0	119
10:45 11:00			3	46	90	17	2								158	64.5-79.5	121
10:00 11:00	11	2	34	221	310	47	6								631	64.0-79.0	122
11:00 11:15			3	54	50	11	3	1							122	64.3-79.3	95
11:15 11:30	2	1	10	80	57	9	1								160	62.0-77.0	122
11:30 11:45		1	14	60	57	16	2	1							151	64.2-79.2	104
11:45 12:00			11	67	70	18	2								168	65.3-80.3	114
11:00 12:00	2	2	38	261	234	54	8	2							601	62.0-77.0	122

12:00	12:15		1	26	64	60	13	1				165	62.1-77.1	104
12:15	12:30			16	69	52	11					148	62.1-77.1	106
12:30	12:45			12	59	73	19					163	64.0-79.0	110
12:45	13:00		1	13	89	53	12	2				170	59.8-74.8	128
12:00	13:00		2	67	281	238	55	3				646	59.8-74.8	128
13:00	13:15		2	7	17	82	63	10				181	61.4-76.4	127
13:15	13:30			10	61	45	18	3				137	63.7-78.7	90
13:30	13:45			15	84	53	13	3				168	62.7-77.7	117
13:45	14:00			13	65	91	13					182	64.4-79.4	137
13:00	14:00		2	7	55	292	252	54	6			668	64.4-79.4	137
14:00	14:15			14	65	71	19	1				170	61.4-76.4	111
14:15	14:30		1	14	65	88	13	3				184	62.4-77.4	134
14:30	14:45			15	71	94	17	4				201	64.7-79.7	135
14:45	15:00			5	106	86	17					214	63.2-78.2	175
14:00	15:00		1	48	307	339	66	8				769	63.2-78.2	175
15:00	15:15			2	9	88	87	14	1			201	61.8-76.8	141
15:15	15:30		5	15	42	80	73	18	4			237	64.2-79.2	129
15:30	15:45			1	24	103	93	28	2			251	62.3-77.3	167
15:45	16:00			1	16	83	111	12	2	1		226	64.9-79.9	179
15:00	16:00		5	19	91	354	364	72	9	1		915	64.9-79.9	179
16:00	16:15			20	98	107	21	1				247	64.4-79.4	195
16:15	16:30			23	98	113	17	1				252	61.8-76.8	179
16:30	16:45			5	22	102	88	23	3	2		245	62.6-77.6	155
16:45	17:00			28	87	120	26	1	1			263	66.8-81.8	185
16:00	17:00			5	93	385	428	87	6	3		1007	64.4-79.4	195
17:00	17:15			14	27	81	140	24	1	1		288	64.3-79.3	195
17:15	17:30			1	6	91	121	31	2			252	66.5-81.5	184
17:30	17:45			1	3	58	134	46				242	68.3-83.3	183
17:45	18:00			1	1	12	73	100	53	2	1	243	65.9-80.9	153
17:00	18:00		1	17	48	303	495	154	5	2		1025	64.3-79.3	195
18:00	18:15			3	73	129	37	2				244	65.5-80.5	190
18:15	18:30			17	75	128	44	5	1			270	66.5-81.5	184
18:30	18:45			3	7	62	76	39	3			190	65.5-80.5	120
18:45	19:00			8	49	97	35	5				194	66.5-81.5	133
18:00	19:00		3	35	259	430	155	15	1			898	65.5-80.5	190
19:00	19:15			4	49	88	27					168	65.5-80.5	120
19:15	19:30			7	55	84	22	4				172	66.5-81.5	123
19:30	19:45			1	11	55	100	20	1	1		189	65.3-80.3	139
19:45	20:00			1	26	66	68	20	2			183	64.0-79.0	110
19:00	20:00		1	1	48	225	340	89	7	1		712	65.3-80.3	139
20:00	20:15			1	13	41	52	24	3			134	64.1-79.1	86
20:15	20:30			7	40	62	10	2	1			122	65.6-80.6	89
20:30	20:45			9	61	53	14	4				141	65.5-80.5	98
20:45	21:00			5	65	39	7					116	60.5-75.5	91
20:00	21:00		1	34	207	206	55	9	1			513	65.5-80.5	98
21:00	21:15			7	45	44	13	2				111	63.3-78.3	78
21:15	21:30			2	9	48	50	4	2			115	62.1-77.1	85
21:30	21:45			3	33	38	6	2				82	63.3-78.3	65
21:45	22:00			1	19	38	13	3				74	67.5-82.5	53
21:00	22:00			2	20	145	170	36	9			382	62.1-77.1	85
22:00	22:15				22	26	15					63	67.4-82.4	42
22:15	22:30			6	23	25	10					64	63.8-78.8	46
22:30	22:45			3	14	9	6	2				34	63.8-78.8	22
22:45	23:00				10	22	8	1				41	65.5-80.5	30
22:00	23:00			9	69	82	39	3				202	63.8-78.8	46
23:00	23:15				12	12	5					29	62.9-77.9	22
23:15	23:30			1	19	23	9					52	63.3-78.3	37
23:30	23:45				3	20	13					36	70.0-85.0	33
23:45	00:00				5	8	6	1				20	63.4-78.4	13
23:00	00:00			1	39	63	33	1				137	63.3-78.3	37
Total			34	68	847	4789	5389	1377	131	14				12649
AM PEAK			0.3%	0.5%	6.7%	37.9%	42.6%	10.9%	1.0%	0.1%				
period			11	2	25	113	95	34	5	1				247
10:00			9:00	8:30	8:00	7:45	7:15	5:30	2:00					8:00
% of class			32.4%	2.9%	3.0%	2.4%	1.8%	2.5%	3.8%	7.1%				2.0%
PM PEAK			5	15	42	106	140	53	5	2				288
period			15:15	15:15	15:15	14:45	17:00	17:45	18:15	16:30				17:00
% of class			14.7%	22.1%	5.0%	2.2%	2.6%	3.8%	3.8%	14.3%				2.3%

15% Percentile :	63	KPH
50% Percentile :	72	KPH
85% Percentile :	80	KPH
95% Percentile :	87	KPH

15 KPH Pace Speed:	64.3-79.3	KPH
Number in Pace:	8576	
Percent in Pace:	67.8	%
Number of Vehicles >80 KPH:	2061	
Percent of Vehicles >80 KPH:	16.3	%
Mean Speed(average):	72	KPH

Report-2.8	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway																
	Direction : North + South														Road :		
	Dates : 5/8/2019																
Speeds,km/h ----->	41	51	61	71	81	91	101	111	121	131	141	151	160	Total	Pace Speed	Number in Pace	
00:00 0:15			4	9	6	1								20	72.4-87.4	15	
0:15 0:30			7	4	2		1							14	61.1-76.1	11	
0:30 0:45		2	8	6	3									19	66.1-81.1	15	
0:45 1:00			5	4	3	1								13	60.8-75.8	7	
00:00 1:00		2	24	23	14	2	1							66	72.4-87.4	15	
1:00 1:15			3	7										10	63.6-78.6	9	
1:15 1:30			4	4	2	2								12	63.5-78.5	8	
1:30 1:45		1	4	1										6	55.1-70.1	5	
1:45 2:00		1	4	4	1									10	59.3-74.3	7	
1:00 2:00		2	15	16	3	2								38	63.6-78.6	9	
2:00 2:15		1	1	2		2								6	64.6-79.6	3	
2:15 2:30			1	1		1	1							4	55.0-70.0	2	
2:30 2:45				2	4	1								7	63.3-78.3	6	
2:45 3:00				2	2	2	1							7	68.2-83.2	5	
2:00 3:00		2	6	8	4	4								24	63.3-78.3	6	
3:00 3:15		1	2	2	3	1								9	68.6-83.6	5	
3:15 3:30			2	4		1								7	62.4-77.4	5	
3:30 3:45			1	2	2	1								6	73.9-88.9	4	
3:45 4:00			1	5	2	2								10	67.6-82.6	8	
3:00 4:00		1	6	13	7	5								32	67.6-82.6	8	
4:00 4:15			6	7	2									15	60.1-75.1	12	
4:15 4:30		1	9	9	4									23	60.4-75.4	16	
4:30 4:45		1	8	11	8	3								31	69.5-84.5	19	
4:45 5:00		1	7	20	7	1								36	65.0-80.0	26	
4:00 5:00		3	30	47	21	4								105	65.0-80.0	26	
5:00 5:15		2	14	18	8	1								43	64.5-79.5	31	
5:15 5:30		3	11	24	18	1								57	68.8-83.8	40	
5:30 5:45		2	31	47	9	3								92	65.0-80.0	75	
5:45 6:00		11	29	60	16	1								117	67.9-82.9	80	
5:00 6:00		18	85	149	51	6								309	67.9-82.9	80	
6:00 6:15		4	48	48	16	3								119	65.0-80.0	82	
6:15 6:30			39	76	27	3		1						146	67.6-82.6	109	
6:30 6:45		2	50	76	24	4	1							157	67.0-82.0	112	
6:45 7:00		3	39	90	31	3	2							168	68.2-83.2	125	
6:00 7:00		9	176	290	98	13	3	1						590	68.2-83.2	125	
7:00 7:15		7	32	96	26	1								162	68.2-83.2	121	
7:15 7:30		1	51	82	34	1								169	65.7-80.7	120	
7:30 7:45	5	2	11	78	108	19	1							224	66.0-81.0	161	
7:45 8:00			15	95	115	27	2	1	1					256	63.8-78.8	174	
7:00 8:00	5	2	34	256	401	106	5	1	1					811	63.8-78.8	174	
8:00 8:15			25	105	89	24	1							244	63.6-78.6	156	
8:15 8:30			12	93	113	18	4							240	62.7-77.7	181	
8:30 8:45			14	116	94	13								237	63.4-78.4	182	
8:45 9:00			12	83	85	18	3							201	64.5-79.5	149	
8:00 9:00			63	397	381	73	8							922	63.4-78.4	182	
9:00 9:15			10	80	81	16	1							188	62.9-77.9	137	
9:15 9:30	4		9	62	63	13	2							153	64.3-79.3	108	
9:30 9:45			6	60	75	10	2							153	65.8-80.8	121	
9:45 10:00	1	1	10	75	73	12								172	63.0-78.0	134	
9:00 10:00	5	1	35	277	292	51	5							666	62.9-77.9	137	
10:00 10:15		3	26	64	51	14	4							162	61.6-76.6	98	
10:15 10:30		1	9	59	67	10	1							147	65.0-80.0	114	
10:30 10:45			5	55	65	14	1							140	65.2-80.2	108	
10:45 11:00		1	12	65	53	15								146	60.8-75.8	99	
10:00 11:00		5	52	243	236	53	6							595	65.0-80.0	114	
11:00 11:15		1	11	73	45	16	2							148	62.4-77.4	104	
11:15 11:30			10	59	65	8	3	1						146	63.7-78.7	116	
11:30 11:45		4	12	68	51	11								146	63.5-78.5	108	
11:45 12:00		2	12	58	65	20	2							159	63.0-78.0	106	
11:00 12:00		7	45	258	226	55	7	1						599	63.7-78.7	116	

12:00	12:15			11	85	61	13	4			174	61.0-76.0	128
12:15	12:30			15	56	78	30	3			182	65.0-80.0	122
12:30	12:45			5	57	66	17	4			149	65.7-80.7	107
12:45	13:00			18	56	80	16	2			172	64.2-79.2	114
12:00	13:00			49	254	285	76	13			677	61.0-76.0	128
13:00	13:15			11	85	56	9	1			162	61.6-76.6	120
13:15	13:30			11	67	61	11	1			151	64.4-79.4	116
13:30	13:45			9	62	70	16	1			158	62.8-77.8	114
13:45	14:00			16	79	45	26	1			167	59.3-74.3	109
13:00	14:00			47	293	232	62	4			638	61.6-76.6	120
14:00	14:15			12	77	69	20	3			181	61.9-76.9	130
14:15	14:30			16	76	101	11	2			206	62.2-77.2	148
14:30	14:45	1		17	57	103	16	2			196	67.3-82.3	150
14:45	15:00		3	17	79	91	17		1		208	63.8-78.8	148
14:00	15:00	1	3	62	289	364	64	7	1		791	62.7-82.3	150
15:00	15:15			9	111	89	17	1			227	63.1-78.1	183
15:15	15:30		9	16	113	102	24	1			265	62.7-77.7	188
15:30	15:45		7	56	81	66	11	3			224	58.8-73.8	127
15:45	16:00	28	13	49	101	32	1		1		225	56.6-71.6	138
15:00	16:00	28	29	130	406	289	53	5	1		941	62.7-77.7	188
16:00	16:15	12	4	33	96	67	14	2			228	60.5-75.5	140
16:15	16:30	1	16	43	133	73	13				279	62.5-77.5	184
16:30	16:45	64	12	28	63	33	2	1			203	58.0-73.0	88
16:45	17:00	45	8	19	109	90	37	6			314	62.2-77.2	174
16:00	17:00	122	40	123	401	263	66	9			1024	62.5-77.5	184
17:00	17:15		3	14	98	124	35	4			278	63.1-78.1	197
17:15	17:30			14	126	120	20	2			282	62.7-77.7	211
17:30	17:45			8	101	136	16	2			263	64.7-79.7	211
17:45	18:00			13	80	141	33	2			269	65.3-80.3	202
17:00	18:00	3	49	405	521	104	10				1092	62.7-77.7	211
18:00	18:15			8	74	120	33				235	66.4-81.4	177
18:15	18:30		4	16	72	131	30	2			255	67.1-82.1	181
18:30	18:45			8	71	102	25	1			207	67.8-82.8	154
18:45	19:00			8	88	86	15	3	1		201	65.0-80.0	157
18:00	19:00	4	40	305	439	103	6	1			898	67.1-82.1	181
19:00	19:15			8	64	81	23	3			179	62.5-77.5	125
19:15	19:30			5	71	86	17	2			181	65.5-80.5	139
19:30	19:45	1		5	44	90	32	1			173	68.2-83.2	129
19:45	20:00			5	52	79	22	2			160	64.5-79.5	115
19:00	20:00	1	23	231	336	94	8				693	65.5-80.5	139
20:00	20:15			5	74	64	14	1			158	63.8-78.8	120
20:15	20:30			5	69	78	15	1			168	64.4-79.4	135
20:30	20:45	1		6	89	64	13				173	61.2-76.2	137
20:45	21:00			6	74	56	6	1			143	61.1-76.1	113
20:00	21:00	1	22	306	262	48	3				642	61.2-76.2	137
21:00	21:15			11	52	30	9		1		103	61.3-76.3	72
21:15	21:30			7	45	53	4	2			111	63.4-78.4	84
21:30	21:45	1		3	41	52	8				105	62.7-77.7	82
21:45	22:00			2	41	48	10	2	1		104	63.5-78.5	86
21:00	22:00	1	23	179	183	31	4	2			423	63.5-78.5	86
22:00	22:15			3	24	28	18	5			78	65.4-80.4	47
22:15	22:30			2	28	33	6	2			71	63.7-78.7	52
22:30	22:45			1	21	37	9	1			69	65.2-80.2	52
22:45	23:00			3	26	30	13	1	2		75	64.9-79.9	49
22:00	23:00			9	99	128	46	9	2		293	63.7-78.7	52
23:00	23:15			2	7	20	7	4			40	65.8-80.8	26
23:15	23:30				22	20	5	3			50	62.1-77.1	39
23:30	23:45				18	19	6	1			44	66.9-81.9	37
23:45	00:00			1	8	7	7	2			25	66.1-81.1	14
23:00	00:00			3	55	66	25	10			159	62.1-77.1	39
Total		161	97	846	4996	5450	1308	155	12	3		13028	
AM PEAK		1.2%	0.7%	6.5%	38.3%	41.8%	10.0%	1.2%	0.1%	0.0%			
period		5	4	26	116	115	34	4	2	1		256	
7:30	11:30			10:00	8:30	7:45	7:15	6:30	6:45	6:15		7:45	
% of class		3.1%	4.1%	3.1%	2.3%	2.1%	2.6%	2.6%	16.7%	33.3%		2.0%	
PM PEAK		64	16	56	133	141	37	6	2	1		314	
period		16:30	16:15	15:30	16:15	17:45	16:45	16:45	22:45	14:45		16:45	
% of class		39.8%	16.5%	6.6%	2.7%	2.6%	2.8%	3.9%	16.7%	33.3%		2.4%	

15% Percentile :	63	KPH
50% Percentile :	72	KPH
85% Percentile :	80	KPH
95% Percentile :	87	KPH

15 KPH Pace Speed:	63.6-78.6	KPH
Number in Pace:	8875	
Percent in Pace:	68.1	%
Number of Vehicles >80 KPH:	2023	
Percent of Vehicles >80 KPH:	15.5	%
Mean Speed(average):	71	KPH

Report-2.9	Location : 5019053NS Hwy 50 - 600m South of Emil Kolb Parkway														Total	Pace Speed	Number in Pace
	Direction : North + South Road :																
	Dates : 5/9/2019																
Speeds,km/h ----->	41	51	61	71	81	91	101	111	121	131	141	151	160				
00:00 0:15				12	6	4	1								23	67.1-82.1	16
0:15 0:30			1	3	6	2	1								13	66.8-81.8	9
0:30 0:45			1	2	6	1									10	63.0-78.0	8
0:45 1:00				7	3		1								11	57.5-72.5	9
00:00 1:00			2	24	21	7	3								57	67.1-82.1	16
1:00 1:15				2	6	4									12	68.7-83.7	11
1:15 1:30				2	8	2									12	69.9-84.9	11
1:30 1:45		1	3	7	1		1								13	53.5-68.5	10
1:45 2:00			1	2	2	2									7	57.3-72.3	4
1:00 2:00		1	4	13	17	8	1								44	68.7-83.7	11
2:00 2:15					5	2	1								8	63.6-78.6	5
2:15 2:30					1	2	2								5	71.1-86.1	3
2:30 2:45			1	3	1										5	55.3-70.3	4
2:45 3:00				1	1	2	1								5	67.0-82.0	3
2:00 3:00			1	4	8	6	4								23	63.6-78.6	5
3:00 3:15	1			1	3	1									6	65.1-80.1	4
3:15 3:30			1	4	3	2	1								11	59.7-74.7	6
3:30 3:45					5	2									7	70.8-85.8	7
3:45 4:00			1	3	2	1		1							8	63.5-78.5	5
3:00 4:00	1		2	8	13	6	1	1							32	70.8-85.8	7
4:00 4:15				3	4	1	2								10	58.3-73.3	5
4:15 4:30				7	8	5									20	63.2-78.2	14
4:30 4:45			1	6	11	6									24	67.5-82.5	16
4:45 5:00				5	24	11	3								43	71.0-86.0	31
4:00 5:00			1	21	47	23	5								97	71.0-86.0	31
5:00 5:15	1		1	9	23	19	2								55	70.5-85.5	38
5:15 5:30			1	20	30	6	2		2						61	66.4-81.4	45
5:30 5:45			6	28	32	3	3								72	66.0-81.0	51
5:45 6:00			1	33	47	13	2	2							98	65.1-80.1	77
5:00 6:00	1		9	90	132	41	9	2	2						286	65.1-80.1	77
6:00 6:15				25	79	19	2								125	68.7-83.7	107
6:15 6:30			2	41	77	21	3	1							145	65.0-80.0	110
6:30 6:45			2	41	68	31	3								145	67.1-82.1	102
6:45 7:00			9	49	98	21	2								179	66.7-81.7	138
6:00 7:00			13	156	322	92	10	1							594	66.7-81.7	138
7:00 7:15				19	57	73	16	2							167	65.1-80.1	114
7:15 7:30	4	7	10	66	84	18									189	64.8-79.8	134
7:30 7:45	2	3	22	71	91	20	3								212	63.2-78.2	135
7:45 8:00		1	26	100	88	28	1								244	61.9-76.9	159
7:00 8:00	6	11	77	294	336	82	6								812	61.9-76.9	159
8:00 8:15			25	94	94	17	1								231	60.6-75.6	158
8:15 8:30	1	2	24	82	115	17									241	64.6-79.6	174
8:30 8:45			22	109	78	11									220	61.1-76.1	163
8:45 9:00			6	68	78	15	1								168	61.6-76.6	132
8:00 9:00	1	2	77	353	365	60	2								860	64.6-79.6	174
9:00 9:15	7	7	18	79	50	8									169	62.2-77.2	122
9:15 9:30		1	17	45	84	7	1								155	62.6-77.6	117
9:30 9:45	2	6	8	46	75	18	4		1						160	64.3-79.3	107
9:45 10:00	2	1	15	68	72	14	1								173	63.5-78.5	125
9:00 10:00	11	15	58	238	281	47	6		1						657	63.5-78.5	125
10:00 10:15		3	11	59	64	12									149	62.3-77.3	105
10:15 10:30		1	11	82	48	11									153	60.5-75.5	115
10:30 10:45			7	60	58	11	2								138	63.9-78.9	100
10:45 11:00			17	59	62	9	1								148	62.6-77.6	102
10:00 11:00		4	46	260	232	43	3								588	60.5-75.5	115
11:00 11:15		1	17	76	48	11									153	60.0-75.0	108
11:15 11:30		1	19	55	55	10	1								141	62.3-77.3	98
11:30 11:45	3	16	22	62	47	11									161	61.4-76.4	101
11:45 12:00			11	69	68	10	1								159	63.5-78.5	121
11:00 12:00	3	18	69	262	218	42	2								614	63.5-78.5	121

12:00	12:15			14	58	64	11	1				148	63.6-78.6	108
12:15	12:30		6	10	61	61	13	3				154	65.0-80.0	107
12:30	12:45	1	1	11	46	92	13					164	66.9-81.9	127
12:45	13:00			3	55	80	12	3				153	63.5-78.5	124
12:00	13:00	1	7	38	220	297	49	7				619	66.9-81.9	127
13:00	13:15		2	14	78	83	4	1				182	65.7-80.7	141
13:15	13:30			13	82	59	10	1				165	64.4-79.4	128
13:30	13:45		1	16	63	62	13	2				157	65.6-80.6	108
13:45	14:00	1		9	83	67	16	3				179	61.6-76.6	125
13:00	14:00	1	3	52	306	271	43	7				683	65.7-80.7	141
14:00	14:15		1	18	95	57	9					180	61.9-76.9	140
14:15	14:30		3	22	90	77	13	1				206	62.4-77.4	142
14:30	14:45		1	11	86	66	12	3				179	60.9-75.9	135
14:45	15:00		9	15	65	78	22		1			190	64.5-79.5	130
14:00	15:00		14	66	336	278	56	4	1			755	62.4-77.4	142
15:00	15:15			21	104	69	15					209	60.1-75.1	157
15:15	15:30	6	5	42	106	77	16	1				253	60.3-75.3	164
15:30	15:45	4	6	18	113	101	11	2				255	61.2-76.2	182
15:45	16:00		2	20	89	87	16	1				215	61.8-76.8	146
15:00	16:00	10	13	101	412	334	58	4				932	61.2-76.2	182
16:00	16:15			27	124	82	12					245	61.6-76.6	189
16:15	16:30		8	24	72	108	28	2				242	65.1-80.1	161
16:30	16:45	2	5	23	104	88	18	2	1			243	64.3-79.3	167
16:45	17:00			23	118	91	28	5				265	60.5-75.5	177
16:00	17:00	2	13	97	418	369	86	9	1			995	61.6-76.6	189
17:00	17:15			14	89	106	16	6				231	62.4-77.4	165
17:15	17:30		1	20	78	98	34	2				233	63.2-78.2	154
17:30	17:45			31	107	106	23	2				269	62.2-77.2	189
17:45	18:00			10	86	90	23					209	63.5-78.5	154
17:00	18:00		1	75	360	400	96	10				942	62.2-77.2	189
18:00	18:15			15	91	89	26	1				222	63.0-78.0	145
18:15	18:30			22	100	95	17					234	62.7-77.7	163
18:30	18:45			7	67	86	14	3				177	63.8-78.8	132
18:45	19:00			16	66	76	20	1				179	62.4-77.4	126
18:00	19:00			60	324	346	77	5				812	62.7-77.7	163
19:00	19:15	2	8	10	59	83	16	3				181	65.5-80.5	126
19:15	19:30			11	61	52	16	2				142	64.3-79.3	99
19:30	19:45			6	62	61	19	1	1			150	62.4-77.4	104
19:45	20:00			3	62	58	16					139	64.5-79.5	101
19:00	20:00	2	8	30	244	254	67	6	1			612	65.5-80.5	126
20:00	20:15			3	35	93	19	2				152	67.0-82.0	120
20:15	20:30			17	53	65	15		1			151	63.9-78.9	111
20:30	20:45			8	45	49	16					118	62.3-77.3	87
20:45	21:00			13	44	28	8	1				94	63.0-78.0	64
20:00	21:00			41	177	235	58	3	1			515	67.0-82.0	120
21:00	21:15			4	38	41	10					93	63.1-78.1	71
21:15	21:30			6	51	46	8					111	63.0-78.0	87
21:30	21:45			4	29	43	10					86	66.0-81.0	65
21:45	22:00			2	22	42	7					73	63.8-78.8	58
21:00	22:00			16	140	172	35					363	63.0-78.0	87
22:00	22:15			5	22	38	9	2				76	64.3-79.3	53
22:15	22:30			5	21	28	7	3				64	66.1-81.1	43
22:30	22:45			2	16	25	12	2				57	67.6-82.6	39
22:45	23:00			4	14	17	7	4		2		48	67.0-82.0	29
22:00	23:00			16	73	108	35	11		2		245	64.3-79.3	53
23:00	23:15			1	13	18	5					37	65.6-80.6	29
23:15	23:30				7	19	4	1				31	66.9-81.9	26
23:30	23:45			2	9	20	8	1				40	66.2-81.2	29
23:45	00:00				2	6	4		1		1	14	66.2-81.2	9
23:00	00:00			3	31	63	21	2	1		1	122	65.6-80.6	29
Total				38	111	954	4764	5119	1138	120	9	5	1	12259
AM PEAK		0.3%	0.9%	7.8%	38.9%	41.8%	9.3%	1.0%	0.1%	0.0%			0.0%	
period		7	16	26	109	115	31	4	2	2			244	
% of class	9:00	11:30	7:45	8:30	8:15	6:30	9:30	5:45	5:15				7:45	
		18.4%	14.4%	2.7%	2.3%	2.2%	2.7%	3.3%	22.2%	40.0%			2.0%	
PM PEAK		6	9	42	124	108	34	6	1	2		1	269	
period	15:15	14:45	15:15	16:00	16:15	17:15	17:00	14:45	22:45			23:45		
% of class		15.8%	8.1%	4.4%	2.6%	2.1%	3.0%	5.0%	11.1%	40.0%		100.0%	2.2%	

15% Percentile :	63 KPH
50% Percentile :	72 KPH
85% Percentile :	80 KPH
95% Percentile :	87 KPH

15 KPH Pace Speed:	63.6-78.6 KPH
Number in Pace:	8411
Percent in Pace:	68.6 %
Number of Vehicles >80 KPH:	1785
Percent of Vehicles >80 KPH:	14.6 %
Mean Speed(average):	71 KPH

Report-3.1 Directions ----->	Location :		5019053NS		Hwy 50 - 600m South of Emil Kolb Parkway		Road :			
	Dates :		5/7/2019							
	North Volume	%	South Volume	%	East Volume	%	West Volume	%	Total Volume	%
00:00 0:15	14	0.2%	7	0.1%					21	0.2%
0:15 0:30	7	0.1%							7	0.1%
0:30 0:45	13	0.2%	6	0.1%					19	0.2%
0:45 1:00	1	0.0%	4	0.1%					5	0.0%
00:00 1:00	35	0.5%	17	0.3%					52	0.4%
1:00 1:15	8	0.1%	3	0.0%					11	0.1%
1:15 1:30	3	0.0%	2	0.0%					5	0.0%
1:30 1:45	5	0.1%	4	0.1%					9	0.1%
1:45 2:00	6	0.1%	4	0.1%					10	0.1%
1:00 2:00	22	0.3%	13	0.2%					35	0.3%
2:00 2:15	8	0.1%	2	0.0%					10	0.1%
2:15 2:30	3	0.0%	4	0.1%					7	0.1%
2:30 2:45	4	0.1%	2	0.0%					6	0.0%
2:45 3:00	5	0.1%	1	0.0%					6	0.0%
2:00 3:00	20	0.3%	9	0.1%					29	0.2%
3:00 3:15	3	0.0%	7	0.1%					10	0.1%
3:15 3:30	3	0.0%	4	0.1%					7	0.1%
3:30 3:45	1	0.0%	8	0.1%					9	0.1%
3:45 4:00	2	0.0%	4	0.1%					6	0.0%
3:00 4:00	9	0.1%	23	0.4%					32	0.3%
4:00 4:15	4	0.1%	11	0.2%					15	0.1%
4:15 4:30	6	0.1%	19	0.3%					25	0.2%
4:30 4:45	5	0.1%	30	0.5%					35	0.3%
4:45 5:00	7	0.1%	29	0.5%					36	0.3%
4:00 5:00	22	0.3%	89	1.5%					111	0.9%
5:00 5:15	6	0.1%	38	0.6%					44	0.3%
5:15 5:30	14	0.2%	55	0.9%					69	0.5%
5:30 5:45	16	0.2%	63	1.0%					79	0.6%
5:45 6:00	27	0.4%	105	1.7%					132	1.0%
5:00 6:00	63	1.0%	261	4.3%					324	2.6%
6:00 6:15	22	0.3%	94	1.5%					116	0.9%
6:15 6:30	28	0.4%	99	1.6%					127	1.0%
6:30 6:45	43	0.7%	125	2.0%					168	1.3%
6:45 7:00	62	0.9%	114	1.9%					176	1.4%
6:00 7:00	155	2.4%	432	7.1%					587	4.6%
7:00 7:15	58	0.9%	107	1.7%					165	1.3%
7:15 7:30	72	1.1%	114	1.9%					186	1.5%
7:30 7:45	82	1.3%	135	2.2%					217	1.7%
7:45 8:00	90	1.4%	147	2.4%					237	1.9%
7:00 8:00	302	4.6%	503	8.2%					805	6.4%
8:00 8:15	87	1.3%	160	2.6%					247	2.0%
8:15 8:30	84	1.3%	146	2.4%					230	1.8%
8:30 8:45	105	1.6%	114	1.9%					219	1.7%
8:45 9:00	82	1.3%	124	2.0%					206	1.6%
8:00 9:00	358	5.5%	544	8.9%					902	7.1%
9:00 9:15	60	0.9%	99	1.6%					159	1.3%
9:15 9:30	51	0.8%	115	1.9%					166	1.3%
9:30 9:45	70	1.1%	102	1.7%					172	1.4%
9:45 10:00	80	1.2%	89	1.5%					169	1.3%
9:00 10:00	261	4.0%	405	6.6%					666	5.3%
10:00 10:15	63	1.0%	103	1.7%					166	1.3%
10:15 10:30	62	0.9%	92	1.5%					154	1.2%
10:30 10:45	60	0.9%	93	1.5%					153	1.2%
10:45 11:00	70	1.1%	88	1.4%					158	1.2%
10:00 11:00	255	3.9%	376	6.1%					631	5.0%
11:00 11:15	58	0.9%	64	1.0%					122	1.0%
11:15 11:30	75	1.1%	85	1.4%					160	1.3%
11:30 11:45	77	1.2%	74	1.2%					151	1.2%
11:45 12:00	89	1.4%	79	1.3%					168	1.3%
11:00 12:00	299	4.6%	302	4.9%					601	4.8%

12:00	12:15	85	1.3%	80	1.3%			165	1.3%
12:15	12:30	86	1.3%	62	1.0%			148	1.2%
12:30	12:45	91	1.4%	72	1.2%			163	1.3%
12:45	13:00	86	1.3%	84	1.4%			170	1.3%
12:00	13:00	348	5.3%	298	4.9%			646	5.1%
13:00	13:15	104	1.6%	77	1.3%			181	1.4%
13:15	13:30	79	1.2%	58	0.9%			137	1.1%
13:30	13:45	106	1.6%	62	1.0%			168	1.3%
13:45	14:00	104	1.6%	78	1.3%			182	1.4%
13:00	14:00	393	6.0%	275	4.5%			668	5.3%
14:00	14:15	81	1.2%	89	1.5%			170	1.3%
14:15	14:30	107	1.6%	77	1.3%			184	1.5%
14:30	14:45	118	1.8%	83	1.4%			201	1.6%
14:45	15:00	119	1.8%	95	1.6%			214	1.7%
14:00	15:00	425	6.5%	344	5.6%			769	6.1%
15:00	15:15	118	1.8%	83	1.4%			201	1.6%
15:15	15:30	160	2.4%	77	1.3%			237	1.9%
15:30	15:45	169	2.6%	82	1.3%			251	2.0%
15:45	16:00	148	2.3%	78	1.3%			226	1.8%
15:00	16:00	595	9.1%	320	5.2%			915	7.2%
16:00	16:15	145	2.2%	102	1.7%			247	2.0%
16:15	16:30	155	2.4%	97	1.6%			252	2.0%
16:30	16:45	149	2.3%	96	1.6%			245	1.9%
16:45	17:00	150	2.3%	113	1.8%			263	2.1%
16:00	17:00	599	9.2%	408	6.7%			1007	8.0%
17:00	17:15	182	2.8%	106	1.7%			288	2.3%
17:15	17:30	134	2.1%	118	1.9%			252	2.0%
17:30	17:45	147	2.3%	95	1.6%			242	1.9%
17:45	18:00	133	2.0%	110	1.8%			243	1.9%
17:00	18:00	596	9.1%	429	7.0%			1025	8.1%
18:00	18:15	122	1.9%	122	2.0%			244	1.9%
18:15	18:30	169	2.6%	101	1.7%			270	2.1%
18:30	18:45	111	1.7%	79	1.3%			190	1.5%
18:45	19:00	124	1.9%	70	1.1%			194	1.5%
18:00	19:00	526	8.1%	372	6.1%			898	7.1%
19:00	19:15	110	1.7%	58	0.9%			168	1.3%
19:15	19:30	110	1.7%	62	1.0%			172	1.4%
19:30	19:45	116	1.8%	73	1.2%			189	1.5%
19:45	20:00	111	1.7%	72	1.2%			183	1.4%
19:00	20:00	447	6.8%	265	4.3%			712	5.6%
20:00	20:15	87	1.3%	47	0.8%			134	1.1%
20:15	20:30	86	1.3%	36	0.6%			122	1.0%
20:30	20:45	87	1.3%	54	0.9%			141	1.1%
20:45	21:00	86	1.3%	30	0.5%			116	0.9%
20:00	21:00	346	5.3%	167	2.7%			513	4.1%
21:00	21:15	62	0.9%	49	0.8%			111	0.9%
21:15	21:30	62	0.9%	53	0.9%			115	0.9%
21:30	21:45	47	0.7%	35	0.6%			82	0.6%
21:45	22:00	54	0.8%	20	0.3%			74	0.6%
21:00	22:00	225	3.4%	157	2.6%			382	3.0%
22:00	22:15	44	0.7%	19	0.3%			63	0.5%
22:15	22:30	45	0.7%	19	0.3%			64	0.5%
22:30	22:45	20	0.3%	14	0.2%			34	0.3%
22:45	23:00	30	0.5%	11	0.2%			41	0.3%
22:00	23:00	139	2.1%	63	1.0%			202	1.6%
23:00	23:15	19	0.3%	10	0.2%			29	0.2%
23:15	23:30	34	0.5%	18	0.3%			52	0.4%
23:30	23:45	25	0.4%	11	0.2%			36	0.3%
23:45	00:00	13	0.2%	7	0.1%			20	0.2%
23:00	00:00	91	1.4%	46	0.8%			137	1.1%
Total		6531		6118				12649	100.0%
		51.6%		48.4%				100.0%	
AM PEAK		105		160				247	
period		8:30		8:00				8:00	
% of class		1.6%		2.6%				2.0%	
PM PEAK		182		122				288	
period		17:00		18:00				17:00	
% of class		2.8%		2.0%				2.3%	

Report-3.2	Location :		5019053NS		Hwy 50 - 600m South of Emil Kolb Parkway		Road :			
	Dates :		5/8/2019							
	North		South		East		West		Total	
Directions ----->	Volume	%	Volume	%	Volume	%	Volume	%	Volume	%
00:00 0:15	14	0.2%	6	0.1%					20	0.2%
0:15 0:30	9	0.1%	5	0.1%					14	0.1%
0:30 0:45	11	0.2%	8	0.1%					19	0.1%
0:45 1:00	9	0.1%	4	0.1%					13	0.1%
00:00 1:00	43	0.6%	23	0.4%					66	0.5%
1:00 1:15	8	0.1%	2	0.0%					10	0.1%
1:15 1:30	7	0.1%	5	0.1%					12	0.1%
1:30 1:45	5	0.1%	1	0.0%					6	0.0%
1:45 2:00	7	0.1%	3	0.0%					10	0.1%
1:00 2:00	27	0.4%	11	0.2%					38	0.3%
2:00 2:15	5	0.1%	1	0.0%					6	0.0%
2:15 2:30	2	0.0%	2	0.0%					4	0.0%
2:30 2:45	5	0.1%	2	0.0%					7	0.1%
2:45 3:00	3	0.0%	4	0.1%					7	0.1%
2:00 3:00	15	0.2%	9	0.1%					24	0.2%
3:00 3:15	5	0.1%	4	0.1%					9	0.1%
3:15 3:30	3	0.0%	4	0.1%					7	0.1%
3:30 3:45	2	0.0%	4	0.1%					6	0.0%
3:45 4:00	5	0.1%	5	0.1%					10	0.1%
3:00 4:00	15	0.2%	17	0.3%					32	0.2%
4:00 4:15	2	0.0%	13	0.2%					15	0.1%
4:15 4:30	2	0.0%	21	0.3%					23	0.2%
4:30 4:45	5	0.1%	26	0.4%					31	0.2%
4:45 5:00	7	0.1%	29	0.5%					36	0.3%
4:00 5:00	16	0.2%	89	1.4%					105	0.8%
5:00 5:15	7	0.1%	36	0.6%					43	0.3%
5:15 5:30	12	0.2%	45	0.7%					57	0.4%
5:30 5:45	20	0.3%	72	1.1%					92	0.7%
5:45 6:00	28	0.4%	89	1.4%					117	0.9%
5:00 6:00	67	1.0%	242	3.8%					309	2.4%
6:00 6:15	24	0.4%	95	1.5%					119	0.9%
6:15 6:30	43	0.6%	103	1.6%					146	1.1%
6:30 6:45	51	0.8%	106	1.7%					157	1.2%
6:45 7:00	56	0.8%	112	1.8%					168	1.3%
6:00 7:00	174	2.6%	416	6.5%					590	4.5%
7:00 7:15	66	1.0%	96	1.5%					162	1.2%
7:15 7:30	64	1.0%	105	1.6%					169	1.3%
7:30 7:45	86	1.3%	138	2.2%					224	1.7%
7:45 8:00	94	1.4%	162	2.5%					256	2.0%
7:00 8:00	310	4.7%	501	7.9%					811	6.2%
8:00 8:15	83	1.2%	161	2.5%					244	1.9%
8:15 8:30	107	1.6%	133	2.1%					240	1.8%
8:30 8:45	100	1.5%	137	2.2%					237	1.8%
8:45 9:00	94	1.4%	107	1.7%					201	1.5%
8:00 9:00	384	5.8%	538	8.4%					922	7.1%
9:00 9:15	77	1.2%	111	1.7%					188	1.4%
9:15 9:30	58	0.9%	95	1.5%					153	1.2%
9:30 9:45	62	0.9%	91	1.4%					153	1.2%
9:45 10:00	65	1.0%	107	1.7%					172	1.3%
9:00 10:00	262	3.9%	404	6.3%					666	5.1%
10:00 10:15	69	1.0%	93	1.5%					162	1.2%
10:15 10:30	70	1.1%	77	1.2%					147	1.1%
10:30 10:45	64	1.0%	76	1.2%					140	1.1%
10:45 11:00	73	1.1%	73	1.1%					146	1.1%
10:00 11:00	276	4.1%	319	5.0%					595	4.6%
11:00 11:15	73	1.1%	75	1.2%					148	1.1%
11:15 11:30	60	0.9%	86	1.4%					146	1.1%
11:30 11:45	75	1.1%	71	1.1%					146	1.1%
11:45 12:00	78	1.2%	81	1.3%					159	1.2%
11:00 12:00	286	4.3%	313	4.9%					599	4.6%

12:00	12:15	94	1.4%	80	1.3%			174	1.3%
12:15	12:30	86	1.3%	96	1.5%			182	1.4%
12:30	12:45	86	1.3%	63	1.0%			149	1.1%
12:45	13:00	79	1.2%	93	1.5%			172	1.3%
12:00	13:00	345	5.2%	332	5.2%			677	5.2%
13:00	13:15	99	1.5%	63	1.0%			162	1.2%
13:15	13:30	80	1.2%	71	1.1%			151	1.2%
13:30	13:45	77	1.2%	81	1.3%			158	1.2%
13:45	14:00	91	1.4%	76	1.2%			167	1.3%
13:00	14:00	347	5.2%	291	4.6%			638	4.9%
14:00	14:15	88	1.3%	93	1.5%			181	1.4%
14:15	14:30	125	1.9%	81	1.3%			206	1.6%
14:30	14:45	121	1.8%	75	1.2%			196	1.5%
14:45	15:00	114	1.7%	94	1.5%			208	1.6%
14:00	15:00	448	6.7%	343	5.4%			791	6.1%
15:00	15:15	142	2.1%	85	1.3%			227	1.7%
15:15	15:30	157	2.4%	108	1.7%			265	2.0%
15:30	15:45	149	2.2%	75	1.2%			224	1.7%
15:45	16:00	104	1.6%	121	1.9%			225	1.7%
15:00	16:00	552	8.3%	389	6.1%			941	7.2%
16:00	16:15	138	2.1%	90	1.4%			228	1.8%
16:15	16:30	159	2.4%	120	1.9%			279	2.1%
16:30	16:45	86	1.3%	117	1.8%			203	1.6%
16:45	17:00	197	3.0%	117	1.8%			314	2.4%
16:00	17:00	580	8.7%	444	7.0%			1024	7.9%
17:00	17:15	169	2.5%	109	1.7%			278	2.1%
17:15	17:30	168	2.5%	114	1.8%			282	2.2%
17:30	17:45	157	2.4%	106	1.7%			263	2.0%
17:45	18:00	158	2.4%	111	1.7%			269	2.1%
17:00	18:00	652	9.8%	440	6.9%			1092	8.4%
18:00	18:15	145	2.2%	90	1.4%			235	1.8%
18:15	18:30	136	2.0%	119	1.9%			255	2.0%
18:30	18:45	133	2.0%	74	1.2%			207	1.6%
18:45	19:00	115	1.7%	86	1.4%			201	1.5%
18:00	19:00	529	7.9%	369	5.8%			898	6.9%
19:00	19:15	107	1.6%	72	1.1%			179	1.4%
19:15	19:30	102	1.5%	79	1.2%			181	1.4%
19:30	19:45	106	1.6%	67	1.1%			173	1.3%
19:45	20:00	89	1.3%	71	1.1%			160	1.2%
19:00	20:00	404	6.1%	289	4.5%			693	5.3%
20:00	20:15	94	1.4%	64	1.0%			158	1.2%
20:15	20:30	87	1.3%	81	1.3%			168	1.3%
20:30	20:45	98	1.5%	75	1.2%			173	1.3%
20:45	21:00	78	1.2%	65	1.0%			143	1.1%
20:00	21:00	357	5.4%	285	4.5%			642	4.9%
21:00	21:15	67	1.0%	36	0.6%			103	0.8%
21:15	21:30	68	1.0%	43	0.7%			111	0.9%
21:30	21:45	76	1.1%	29	0.5%			105	0.8%
21:45	22:00	68	1.0%	36	0.6%			104	0.8%
21:00	22:00	279	4.2%	144	2.3%			423	3.2%
22:00	22:15	51	0.8%	27	0.4%			78	0.6%
22:15	22:30	39	0.6%	32	0.5%			71	0.5%
22:30	22:45	41	0.6%	28	0.4%			69	0.5%
22:45	23:00	54	0.8%	21	0.3%			75	0.6%
22:00	23:00	185	2.8%	108	1.7%			293	2.2%
23:00	23:15	29	0.4%	11	0.2%			40	0.3%
23:15	23:30	35	0.5%	15	0.2%			50	0.4%
23:30	23:45	32	0.5%	12	0.2%			44	0.3%
23:45	00:00	9	0.1%	16	0.3%			25	0.2%
23:00	00:00	105	1.6%	54	0.8%			159	1.2%
Total		6658		6370				13028	100.0%
		51.1%		48.9%				100.0%	
AM PEAK		107		162				256	
period		8:15		7:45				7:45	
% of class		1.6%		2.5%				2.0%	
PM PEAK		197		121				314	
period		16:45		15:45				16:45	
% of class		3.0%		1.9%				2.4%	

Report-3.3	Location :		5019053NS		Hwy 50 - 600m South of Emil Kolb Parkway					
	Dates :		5/9/2019		Road :					
	North		South		East		West		Total	
Directions ----->	Volume	%	Volume	%	Volume	%	Volume	%	Volume	%
00:00 0:15	16	0.2%	7	0.1%					23	0.2%
0:15 0:30	8	0.1%	5	0.1%					13	0.1%
0:30 0:45	6	0.1%	4	0.1%					10	0.1%
0:45 1:00	8	0.1%	3	0.1%					11	0.1%
00:00 1:00	38	0.6%	19	0.3%					57	0.5%
1:00 1:15	8	0.1%	4	0.1%					12	0.1%
1:15 1:30	8	0.1%	4	0.1%					12	0.1%
1:30 1:45	8	0.1%	5	0.1%					13	0.1%
1:45 2:00	4	0.1%	3	0.1%					7	0.1%
1:00 2:00	28	0.4%	16	0.3%					44	0.4%
2:00 2:15	5	0.1%	3	0.1%					8	0.1%
2:15 2:30	4	0.1%	1	0.0%					5	0.0%
2:30 2:45	2	0.0%	3	0.1%					5	0.0%
2:45 3:00	5	0.1%							5	0.0%
2:00 3:00	16	0.2%	7	0.1%					23	0.2%
3:00 3:15	3	0.0%	3	0.1%					6	0.0%
3:15 3:30	5	0.1%	6	0.1%					11	0.1%
3:30 3:45			7	0.1%					7	0.1%
3:45 4:00	2	0.0%	6	0.1%					8	0.1%
3:00 4:00	10	0.2%	22	0.4%					32	0.3%
4:00 4:15	1	0.0%	9	0.2%					10	0.1%
4:15 4:30	4	0.1%	16	0.3%					20	0.2%
4:30 4:45	4	0.1%	20	0.3%					24	0.2%
4:45 5:00	11	0.2%	32	0.5%					43	0.4%
4:00 5:00	20	0.3%	77	1.3%					97	0.8%
5:00 5:15	15	0.2%	40	0.7%					55	0.4%
5:15 5:30	12	0.2%	49	0.8%					61	0.5%
5:30 5:45	15	0.2%	57	1.0%					72	0.6%
5:45 6:00	18	0.3%	80	1.4%					98	0.8%
5:00 6:00	60	0.9%	226	3.9%					286	2.3%
6:00 6:15	20	0.3%	105	1.8%					125	1.0%
6:15 6:30	35	0.5%	110	1.9%					145	1.2%
6:30 6:45	43	0.7%	102	1.7%					145	1.2%
6:45 7:00	49	0.8%	130	2.2%					179	1.5%
6:00 7:00	147	2.3%	447	7.7%					594	4.8%
7:00 7:15	67	1.0%	100	1.7%					167	1.4%
7:15 7:30	60	0.9%	129	2.2%					189	1.5%
7:30 7:45	92	1.4%	120	2.1%					212	1.7%
7:45 8:00	88	1.4%	156	2.7%					244	2.0%
7:00 8:00	307	4.8%	505	8.6%					812	6.6%
8:00 8:15	74	1.2%	157	2.7%					231	1.9%
8:15 8:30	101	1.6%	140	2.4%					241	2.0%
8:30 8:45	104	1.6%	116	2.0%					220	1.8%
8:45 9:00	74	1.2%	94	1.6%					168	1.4%
8:00 9:00	353	5.5%	507	8.7%					860	7.0%
9:00 9:15	67	1.0%	102	1.7%					169	1.4%
9:15 9:30	55	0.9%	100	1.7%					155	1.3%
9:30 9:45	70	1.1%	90	1.5%					160	1.3%
9:45 10:00	67	1.0%	106	1.8%					173	1.4%
9:00 10:00	259	4.0%	398	6.8%					657	5.4%
10:00 10:15	65	1.0%	84	1.4%					149	1.2%
10:15 10:30	61	1.0%	92	1.6%					153	1.2%
10:30 10:45	72	1.1%	66	1.1%					138	1.1%
10:45 11:00	69	1.1%	79	1.4%					148	1.2%
10:00 11:00	267	4.2%	321	5.5%					588	4.8%
11:00 11:15	69	1.1%	84	1.4%					153	1.2%
11:15 11:30	64	1.0%	77	1.3%					141	1.2%
11:30 11:45	89	1.4%	72	1.2%					161	1.3%
11:45 12:00	81	1.3%	78	1.3%					159	1.3%
11:00 12:00	303	4.7%	311	5.3%					614	5.0%

12:00	12:15	67	1.0%	81	1.4%			148	1.2%
12:15	12:30	95	1.5%	59	1.0%			154	1.3%
12:30	12:45	87	1.4%	77	1.3%			164	1.3%
12:45	13:00	76	1.2%	77	1.3%			153	1.2%
12:00	13:00	325	5.1%	294	5.0%			619	5.0%
13:00	13:15	107	1.7%	75	1.3%			182	1.5%
13:15	13:30	81	1.3%	84	1.4%			165	1.3%
13:30	13:45	88	1.4%	69	1.2%			157	1.3%
13:45	14:00	99	1.5%	80	1.4%			179	1.5%
13:00	14:00	375	5.8%	308	5.3%			683	5.6%
14:00	14:15	94	1.5%	86	1.5%			180	1.5%
14:15	14:30	132	2.1%	74	1.3%			206	1.7%
14:30	14:45	113	1.8%	66	1.1%			179	1.5%
14:45	15:00	105	1.6%	85	1.5%			190	1.5%
14:00	15:00	444	6.9%	311	5.3%			755	6.2%
15:00	15:15	130	2.0%	79	1.4%			209	1.7%
15:15	15:30	161	2.5%	92	1.6%			253	2.1%
15:30	15:45	168	2.6%	87	1.5%			255	2.1%
15:45	16:00	139	2.2%	76	1.3%			215	1.8%
15:00	16:00	598	9.3%	334	5.7%			932	7.6%
16:00	16:15	153	2.4%	92	1.6%			245	2.0%
16:15	16:30	147	2.3%	95	1.6%			242	2.0%
16:30	16:45	152	2.4%	91	1.6%			243	2.0%
16:45	17:00	153	2.4%	112	1.9%			265	2.2%
16:00	17:00	605	9.4%	390	6.7%			995	8.1%
17:00	17:15	148	2.3%	83	1.4%			231	1.9%
17:15	17:30	132	2.1%	101	1.7%			233	1.9%
17:30	17:45	181	2.8%	88	1.5%			269	2.2%
17:45	18:00	115	1.8%	94	1.6%			209	1.7%
17:00	18:00	576	9.0%	366	6.3%			942	7.7%
18:00	18:15	125	1.9%	97	1.7%			222	1.8%
18:15	18:30	131	2.0%	103	1.8%			234	1.9%
18:30	18:45	101	1.6%	76	1.3%			177	1.4%
18:45	19:00	115	1.8%	64	1.1%			179	1.5%
18:00	19:00	472	7.4%	340	5.8%			812	6.6%
19:00	19:15	111	1.7%	70	1.2%			181	1.5%
19:15	19:30	95	1.5%	47	0.8%			142	1.2%
19:30	19:45	104	1.6%	46	0.8%			150	1.2%
19:45	20:00	96	1.5%	43	0.7%			139	1.1%
19:00	20:00	406	6.3%	206	3.5%			612	5.0%
20:00	20:15	94	1.5%	58	1.0%			152	1.2%
20:15	20:30	109	1.7%	42	0.7%			151	1.2%
20:30	20:45	73	1.1%	45	0.8%			118	1.0%
20:45	21:00	60	0.9%	34	0.6%			94	0.8%
20:00	21:00	336	5.2%	179	3.1%			515	4.2%
21:00	21:15	64	1.0%	29	0.5%			93	0.8%
21:15	21:30	71	1.1%	40	0.7%			111	0.9%
21:30	21:45	54	0.8%	32	0.5%			86	0.7%
21:45	22:00	38	0.6%	35	0.6%			73	0.6%
21:00	22:00	227	3.5%	136	2.3%			363	3.0%
22:00	22:15	51	0.8%	25	0.4%			76	0.6%
22:15	22:30	36	0.6%	28	0.5%			64	0.5%
22:30	22:45	39	0.6%	18	0.3%			57	0.5%
22:45	23:00	27	0.4%	21	0.4%			48	0.4%
22:00	23:00	153	2.4%	92	1.6%			245	2.0%
23:00	23:15	26	0.4%	11	0.2%			37	0.3%
23:15	23:30	22	0.3%	9	0.2%			31	0.3%
23:30	23:45	32	0.5%	8	0.1%			40	0.3%
23:45	00:00	12	0.2%	2	0.0%			14	0.1%
23:00	00:00	92	1.4%	30	0.5%			122	1.0%
Total		6417		5842				12259	100.0%
		52.3%		47.7%				100.0%	
AM PEAK		104		157				244	
period		8:30		8:00				7:45	
% of class		1.6%		2.7%				2.0%	
PM PEAK		181		112				269	
period		17:30		16:45				17:30	
% of class		2.8%		1.9%				2.2%	

APPENDIX C

ENVIRONMENTAL NOISE GUIDELINES

APPENDIX C
ENVIRONMENTAL NOISE GUIDELINES
MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PAKRS (MECP)

Reference: MECP Publication NPC-300, October 2013: “*Environmental Noise Guideline, Stationary and Transportation Source – Approval and Planning*”.

SPACE	SOURCE	TIME PERIOD	CRITERION
Living/dining, den areas of residences, hospitals, nursing homes, schools, daycare centres, etc.	Road	07:00 to 23:00	45 dBA
	Rail	07:00 to 23:00	40 dBA
	Aircraft	24-hour period	NEF/NEP 5
Living/dining, den areas of residences, hospitals, nursing homes, etc. (except schools or daycare centres)	Road	23:00 to 07:00	45 dBA
	Rail	23:00 to 07:00	40 dBA
	Aircraft	24-hour period	NEF/NEP 5
Sleeping quarters	Road	07:00 to 23:00	45 dBA
	Rail	07:00 to 23:00	40 dBA
	Aircraft	24-hour period	NEF/NEP 0
Sleeping quarters	Road	23:00 to 07:00	40 dBA
	Rail	23:00 to 07:00	35 dBA
	Aircraft	24-hour period	NEF/NEP 0
Outdoor Living Areas	Road and Rail	07:00 to 23:00	55 dBA
Outdoor Point of Reception	Aircraft	24-hour period	NEF/NEP 30 [#]
	Stationary Source		
	Class 1 Area	07:00 to 19:00 ⁽¹⁾	50 ⁺ dBA
		19:00 to 23:00 ⁽¹⁾	50 ⁺ dBA
	Class 2 Area	07:00 to 19:00 ⁽²⁾	50 ⁺ dBA
		19:00 to 23:00 ⁽²⁾	45 ⁺ dBA
	Class 3 Area	07:00 to 19:00 ⁽³⁾	45 ⁺ dBA
		19:00 to 23:00 ⁽³⁾	40 ⁺ dBA
Class 4 Area	07:00 to 19:00 ⁽⁴⁾	55 ⁺ dBA	
	19:00 to 23:00 ⁽⁴⁾	55 ⁺ dBA	

.../cont'd

SPACE	SOURCE	TIME PERIOD	CRITERION
Plane of a Window of Noise Sensitive Spaces	Stationary Source Class 1 Area	07:00 to 19:00 ⁽¹⁾	50 ⁺ dBA
		19:00 to 23:00 ⁽¹⁾	50 ⁺ dBA
		23:00 to 07:00 ⁽¹⁾	45 ⁺ dBA
	Class 2 Area	07:00 to 19:00 ⁽²⁾	50 ⁺ dBA
		19:00 to 23:00 ⁽²⁾	50 ⁺ dBA
		23:00 to 07:00 ⁽²⁾	45 ⁺ dBA
	Class 3 Area	07:00 to 19:00 ⁽³⁾	45 ⁺ dBA
		19:00 to 23:00 ⁽³⁾	45 ⁺ dBA
		23:00 to 07:00 ⁽³⁾	40 ⁺ dBA
	Class 4 Area	07:00 to 19:00 ⁽⁴⁾	60 ⁺ dBA
		19:00 to 23:00 ⁽⁴⁾	60 ⁺ dBA
		23:00 to 07:00 ⁽⁴⁾	55 ⁺ dBA

- # may not apply to in-fill or re-development.
 * or the minimum hourly background sound exposure $L_{eq(1)}$, due to road traffic, if higher.
 (1) Class 1 Area: Urban.
 (2) Class 2 Area: Urban during day; rural-like evening and night.
 (3) Class 3 Area: Rural.
 (4) Class 4 Area: Subject to land use planning authority's approval.

Reference: MOE Publication ISBN 0-7729-2804-5, 1987: "Environmental Noise Assessment in Land-Use Planning".

EXCESS ABOVE RECOMMENDED SOUND LEVEL LIMITS (dBA)	CHANGE IN SUBJECTIVE LOUDNESS ABOVE	MAGNITUDE OF THE NOISE PROBLEM	NOISE CONTROL MEASURES (OR ACTION TO BE TAKEN)
No excess (<55 dBA)	—	No expected noise problem	None
1 to 5 inclusive (56 to 60 dBA)	Noticeably louder	Slight noise impact	If no physical measures are taken, then prospective purchasers or tenants should be made aware by suitable warning clauses.
6 to 10 inclusive (61 - 65 dBA)	Almost twice as loud	Definite noise impact	Recommended.
11 to 15 inclusive (66 - 70 dBA)	Almost three times as loud	Serious noise impact	Strongly Recommended.
16 and over (>70 dBA)	Almost four times as loud	Very serious noise impact	Strongly Recommended (may be mandatory).

APPENDIX D

SAMPLE CALCULATIONS –

TRANSPORTATION NOISE SOURCES

STAMSON 5.04 NORMAL REPORT Date: 14-03-2024 10:11:22
MINISTRY OF ENVIRONMENT, CONSERVATION AND PARKS / NOISE ASSESSMENT

Filename: a_sw_wf.te Time Period: Day/Night 16/8 hours
Description: **Building A Southwest Corner West Facade**

Road data, segment # 1: Hwy 50 (day/night)

Car traffic volume : 14211/1587 veh/TimePeriod
Medium truck volume : 270/28 veh/TimePeriod
Heavy truck volume : 99/5 veh/TimePeriod
Posted speed limit : 70 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

Data for Segment # 1: Hwy 50 (day/night)

Angle1 Angle2 : -90.00 deg 90.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0 / 0
Surface : 1 (Absorptive ground surface)
Receiver source distance : 23.00 / 25.00 m
Receiver height : 31.50 / 31.50 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00

Road data, segment # 2: Columbia (day/night)

Car traffic volume : 8706/967 veh/TimePeriod *
Medium truck volume : 275/31 veh/TimePeriod *
Heavy truck volume : 183/20 veh/TimePeriod *
Posted speed limit : 50 km/h
Road gradient : 0 %
Road pavement : 1 (Typical asphalt or concrete)

* Refers to calculated road volumes based on the following input:

24 hr Traffic Volume (AADT or SADT): 8520
Percentage of Annual Growth : 2.00
Number of Years of Growth : 9.00
Medium Truck % of Total Volume : 3.00
Heavy Truck % of Total Volume : 2.00
Day (16 hrs) % of Total Volume : 90.00

Data for Segment # 2: Columbia (day/night)

Angle1 Angle2 : -90.00 deg 45.00 deg
Wood depth : 0 (No woods.)
No of house rows : 0 / 0
Surface : 1 (Absorptive ground surface)
Receiver source distance : 23.00 / 23.00 m
Receiver height : 31.50 / 31.50 m
Topography : 1 (Flat/gentle slope; no barrier)
Reference angle : 0.00

Results segment # 1: Hwy 50 (day)

Source height = 0.91 m

ROAD (0.00 + 65.65 + 0.00) = 65.65 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	67.51	0.00	-1.86	0.00	0.00	0.00	0.00	65.65

Segment Leq : 65.65 dBA

Results segment # 2: Columbia (day)

Source height = 1.19 m

ROAD (0.00 + 60.79 + 0.00) = 60.79 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	45	0.00	63.90	0.00	-1.86	-1.25	0.00	0.00	0.00	60.79

Segment Leq : 60.79 dBA

Total Leq All Segments: 66.88 dBA

Results segment # 1: Hwy 50 (night)

Source height = 0.75 m

ROAD (0.00 + 58.27 + 0.00) = 58.27 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	90	0.00	60.49	0.00	-2.22	0.00	0.00	0.00	0.00	58.27

Segment Leq : 58.27 dBA

Results segment # 2: Columbia (night)

Source height = 1.18 m

ROAD (0.00 + 54.24 + 0.00) = 54.24 dBA

Angle1	Angle2	Alpha	RefLeq	P.Adj	D.Adj	F.Adj	W.Adj	H.Adj	B.Adj	SubLeq
-90	45	0.00	57.34	0.00	-1.86	-1.25	0.00	0.00	0.00	54.24

Segment Leq : 54.24 dBA

Total Leq All Segments: 59.72 dBA

TOTAL Leq FROM ALL SOURCES (DAY): 66.88
(NIGHT): 59.72

APPENDIX E

SAMPLE CALCULATIONS –

STATIONARY NOISE SOURCES

Point Sources

Name	Sel.	M.	ID	Result. PWL			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Height	Coordinates		
				Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)	Special (min)					Night (min)	X (m)	Y (m)
Truck Idling			MdTrk_Idle01	92.0	92.0	92.0	Lw	MdTrk_Idle			0.0	0.0	0.0			50.00	0.00	0.00	0.0	(none)	1.80	17599926.07	4860586.57	1.80
Truck Idling			DmpTrk_Idle01	100.6	100.6	100.6	Lw	Hvy_Trk_Idling			0.0	0.0	0.0			60.00	0.00	0.00	0.0	(none)	2.50	17599935.50	4860488.60	2.50

Line Sources

Name	Sel.	M.	ID	Result. PWL			Result. PWL'			Lw / Li		Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
				Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R		Area (m²)	Day (min)	Special (min)				Night (min)	Day	Evening	Night
Medium Truck Movements			MdTrk_Mvt01	91.4	-18.6	-18.6	66.9	-43.1	-43.1	PWL-Pt	Med_20kph		0.0	0.0	0.0				60.00	0.00	0.00	0.0	(none)	10.0	0.0	0.0	20.0
Lawnmower Movement to Trailer			LwnMwr_Mvt01	96.8	-16.2	-16.2	84.7	-28.3	-28.3	PWL-Pt	LM_01		0.0	0.0	0.0			-5	60.00	0.00	0.00	0.0	(none)	20.0	0.0	0.0	5.0
FEL loading aggregate			FEL01	106.0	106.0	106.0	85.9	85.9	85.9	Lw	FEL		0.0	0.0	0.0				60.00	0.00	0.00	0.0	(none)				
Dump Truck movement			DmpTrk_Mvt01	95.1	-12.7	-12.7	70.9	-36.9	-36.9	PWL-Pt	Hvy_Trk		0.0	0.0	0.0				60.00	0.00	0.00	0.0	(none)	6.0	0.0	0.0	20.0

Sound Level Library

Name	ID	Type	1/3 Oktave Spectrum (dB)											Source	
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A		lin
Medium truck movement - 20 kph	Med_20kph	Lw		0.0	111.3	105.2	99.6	96.4	94.3	91.5	87.2	82.5	99.9	112.7	VCL Database
Medium Truck Idling	MdTrk_Idle	Lw		0.0	93.9	93.6	89.0	88.8	88.1	84.0	76.6	70.5	92.0	98.6	VCL Database
Lawnmower Movement to Trailer	LM_01	Lw		84.8	112.2	105.9	95.7	95.9	97.4	97.7	96.2	91.0	103.7	113.6	VCL Measurement - 2021-06-25
FEL	FEL	Lw		106.7	113.7	108.5	106.1	99.5	100.7	99.7	92.6	91.4	106.0	116.3	ML Measurements
Heavy Truck Idling	Hvy_Trk_Idling	Lw		0.0	101.2	96.6	96.4	95.7	91.6	84.2	78.1	99.6	100.6	105.6	VCL database Heavy Truck Idle
Heavy truck movement - 20 kph	Hvy_Trk	Lw		0.0	111.8	110.3	106.4	102.6	99.7	97.7	95.6	92.1	106.1	115.3	VCL Database

Receiver

Name: Plane of Window - Level 10

ID: POW01

X: 17600043.54 m

Y: 4860641.11 m

Z: 31.50 m

Point Source, ISO 9613, Name: "Truck Idling", ID: "DmpTrk_Idle01"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
145	17599935.50	4860488.60	2.50	0	D	A	100.6	0.0	0.0	0.0	0.0	56.5	4.7	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	41.1
145	17599935.50	4860488.60	2.50	0	N	A	100.6	0.0	-188.0	0.0	0.0	56.5	4.7	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	-146.9
145	17599935.50	4860488.60	2.50	0	E	A	100.6	0.0	-188.0	0.0	0.0	56.5	4.7	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	-146.9

Line Source, ISO 9613, Name: "FEL loading aggregate", ID: "FEL01"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
149	17599917.15	4860473.51	3.50	0	D	A	85.9	12.9	0.0	0.0	0.0	57.5	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	42.1
149	17599917.15	4860473.51	3.50	0	N	A	85.9	12.9	-188.0	0.0	0.0	57.5	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	-145.9
149	17599917.15	4860473.51	3.50	0	E	A	85.9	12.9	-188.0	0.0	0.0	57.5	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	-145.9
172	17599931.05	4860497.96	3.50	0	D	A	85.9	10.1	0.0	0.0	0.0	56.3	1.2	-1.5	0.0	0.0	0.0	0.0	0.0	0.0	40.0
172	17599931.05	4860497.96	3.50	0	N	A	85.9	10.1	-188.0	0.0	0.0	56.3	1.2	-1.5	0.0	0.0	0.0	0.0	0.0	0.0	-148.0
172	17599931.05	4860497.96	3.50	0	E	A	85.9	10.1	-188.0	0.0	0.0	56.3	1.2	-1.5	0.0	0.0	0.0	0.0	0.0	0.0	-148.0
196	17599926.49	4860483.72	3.50	0	D	A	85.9	9.1	0.0	0.0	0.0	56.9	1.2	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	38.6
196	17599926.49	4860483.72	3.50	0	N	A	85.9	9.1	-188.0	0.0	0.0	56.9	1.2	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	-149.4
196	17599926.49	4860483.72	3.50	0	E	A	85.9	9.1	-188.0	0.0	0.0	56.9	1.2	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	-149.4
200	17599923.86	4860468.51	3.50	0	D	A	85.9	9.4	0.0	0.0	0.0	57.5	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	38.7
200	17599923.86	4860468.51	3.50	0	N	A	85.9	9.4	-188.0	0.0	0.0	57.5	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	-149.3
200	17599923.86	4860468.51	3.50	0	E	A	85.9	9.4	-188.0	0.0	0.0	57.5	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	-149.3
209	17599925.36	4860476.29	3.50	0	D	A	85.9	8.5	0.0	0.0	0.0	57.2	1.3	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	38.0
209	17599925.36	4860476.29	3.50	0	N	A	85.9	8.5	-188.0	0.0	0.0	57.2	1.3	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	-150.0
209	17599925.36	4860476.29	3.50	0	E	A	85.9	8.5	-188.0	0.0	0.0	57.2	1.3	-1.9	0.0	0.0	0.0	0.0	0.0	0.0	-150.0
212	17599927.24	4860494.13	3.50	0	D	A	85.9	7.9	0.0	0.0	0.0	56.6	1.2	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	37.7
212	17599927.24	4860494.13	3.50	0	N	A	85.9	7.9	-188.0	0.0	0.0	56.6	1.2	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	-150.3
212	17599927.24	4860494.13	3.50	0	E	A	85.9	7.9	-188.0	0.0	0.0	56.6	1.2	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	-150.3
217	17599914.46	4860467.77	3.50	0	D	A	85.9	9.0	0.0	0.0	0.0	57.8	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	38.0
217	17599914.46	4860467.77	3.50	0	N	A	85.9	9.0	-188.0	0.0	0.0	57.8	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	-150.0
217	17599914.46	4860467.77	3.50	0	E	A	85.9	9.0	-188.0	0.0	0.0	57.8	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	-150.0
221	17599928.29	4860499.88	3.50	0	D	A	85.9	7.5	0.0	0.0	0.0	56.3	1.2	-1.5	0.0	0.0	0.0	0.0	0.0	0.0	37.4
221	17599928.29	4860499.88	3.50	0	N	A	85.9	7.5	-188.0	0.0	0.0	56.3	1.2	-1.5	0.0	0.0	0.0	0.0	0.0	0.0	-150.6
221	17599928.29	4860499.88	3.50	0	E	A	85.9	7.5	-188.0	0.0	0.0	56.3	1.2	-1.5	0.0	0.0	0.0	0.0	0.0	0.0	-150.6
264	17599920.82	4860466.71	3.50	0	D	A	85.9	8.7	0.0	0.0	0.0	57.7	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	37.8
264	17599920.82	4860466.71	3.50	0	N	A	85.9	8.7	-188.0	0.0	0.0	57.7	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	-150.2
264	17599920.82	4860466.71	3.50	0	E	A	85.9	8.7	-188.0	0.0	0.0	57.7	1.3	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	-150.2
268	17599924.90	4860483.29	3.50	0	D	A	85.9	7.6	0.0	0.0	0.0	57.0	1.2	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	37.1
268	17599924.90	4860483.29	3.50	0	N	A	85.9	7.6	-188.0	0.0	0.0	57.0	1.2	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	-150.9
268	17599924.90	4860483.29	3.50	0	E	A	85.9	7.6	-188.0	0.0	0.0	57.0	1.2	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	-150.9
272	17599926.55	4860488.37	3.50	0	D	A	85.9	7.4	0.0	0.0	0.0	56.8	1.2	-1.7	0.0	0.0	0.0	0.0	0.0	0.0	37.0
272	17599926.55	4860488.37	3.50	0	N	A	85.9	7.4	-188.0	0.0	0.0	56.8	1.2	-1.7	0.0	0.0	0.0	0.0	0.0	0.0	-151.0
272	17599926.55	4860488.37	3.50	0	E	A	85.9	7.4	-188.0	0.0	0.0	56.8	1.2	-1.7	0.0	0.0	0.0	0.0	0.0	0.0	-151.0
276	17599928.01	4860489.86	3.50	0	D	A	85.9	7.1	0.0	0.0	0.0	56.7	1.2	-1.7	0.0	0.0	0.0	0.0	0.0	0.0	36.9
276	17599928.01	4860489.86	3.50	0	N	A	85.9	7.1	-188.0	0.0	0.0	56.7	1.2	-1.7	0.0	0.0	0.0	0.0	0.0	0.0	-151.1
276	17599928.01	4860489.86	3.50	0	E	A	85.9	7.1	-188.0	0.0	0.0	56.7	1.2	-1.7	0.0	0.0	0.0	0.0	0.0	0.0	-151.1
281	17599931.34	4860492.65	3.50	0	D	A	85.9	5.9	0.0	0.0	0.0	56.5	1.2	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	35.8
281	17599931.34	4860492.65	3.50	0	N	A	85.9	5.9	-188.0	0.0	0.0	56.5	1.2	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	-152.2
281	17599931.34	4860492.65	3.50	0	E	A	85.9	5.9	-188.0	0.0	0.0	56.5	1.2	-1.6	0.0	0.0	0.0	0.0	0.0	0.0	-152.2

Line Source, ISO 9613, Name: "Lawnmower Movement to Trailer", ID: "LwnMwr_Mvt01"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)	
153	17599919.55	4860591.61	1.50	0	D	A	84.7	7.4	0.0	0.0	0.0	53.7	1.6	-1.3	0.0	0.0	0.0	0.0	0.0	0.0	38.0
153	17599919.55	4860591.61	1.50	0	N	A	-28.3	7.4	-188.0	0.0	0.0	53.7	1.6	-1.3	0.0	0.0	0.0	0.0	0.0	0.0	-263.0
153	17599919.55	4860591.61	1.50	0	E	A	-28.3	7.4	-188.0	0.0	0.0	53.7	1.6	-1.3	0.0	0.0	0.0	0.0	0.0	0.0	-263.0

Line Source, ISO 9613, Name: "Lawnmower Movement to Trailer", ID: "LwnMwr_Mvt01"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
155	17599923.03	4860588.94	1.50	0	D	A	84.7	5.1	0.0	0.0	0.0	53.6	1.6	-1.2	0.0	0.0	0.0	0.0	0.0	35.9
155	17599923.03	4860588.94	1.50	0	N	A	-28.3	5.1	-188.0	0.0	0.0	53.6	1.6	-1.2	0.0	0.0	0.0	0.0	0.0	-265.2
155	17599923.03	4860588.94	1.50	0	E	A	-28.3	5.1	-188.0	0.0	0.0	53.6	1.6	-1.2	0.0	0.0	0.0	0.0	0.0	-265.2
158	17599924.95	4860587.46	1.50	0	D	A	84.7	2.0	0.0	0.0	0.0	53.5	1.6	-1.2	0.0	0.0	0.0	0.0	0.0	32.8
158	17599924.95	4860587.46	1.50	0	N	A	-28.3	2.0	-188.0	0.0	0.0	53.5	1.6	-1.2	0.0	0.0	0.0	0.0	0.0	-268.2
158	17599924.95	4860587.46	1.50	0	E	A	-28.3	2.0	-188.0	0.0	0.0	53.5	1.6	-1.2	0.0	0.0	0.0	0.0	0.0	-268.2
161	17599918.01	4860592.79	1.50	1	D	A	84.7	2.1	0.0	0.0	0.0	54.3	1.7	-1.6	0.0	0.0	14.2	0.0	2.5	15.8
161	17599918.01	4860592.79	1.50	1	N	A	-28.3	2.1	-188.0	0.0	0.0	54.3	1.7	-1.6	0.0	0.0	14.2	0.0	2.5	-285.2
161	17599918.01	4860592.79	1.50	1	E	A	-28.3	2.1	-188.0	0.0	0.0	54.3	1.7	-1.6	0.0	0.0	14.2	0.0	2.5	-285.2
163	17599919.93	4860591.32	1.50	1	D	A	84.7	5.0	0.0	0.0	0.0	54.2	1.7	-1.6	0.0	0.0	13.8	0.0	2.5	19.1
163	17599919.93	4860591.32	1.50	1	N	A	-28.3	5.0	-188.0	0.0	0.0	54.2	1.7	-1.6	0.0	0.0	13.8	0.0	2.5	-281.9
163	17599919.93	4860591.32	1.50	1	E	A	-28.3	5.0	-188.0	0.0	0.0	54.2	1.7	-1.6	0.0	0.0	13.8	0.0	2.5	-281.9
166	17599923.34	4860588.70	1.50	1	D	A	84.7	7.3	0.0	0.0	0.0	54.2	1.6	-1.5	0.0	0.0	13.1	0.0	2.4	22.1
166	17599923.34	4860588.70	1.50	1	N	A	-28.3	7.3	-188.0	0.0	0.0	54.2	1.6	-1.5	0.0	0.0	13.1	0.0	2.4	-278.9
166	17599923.34	4860588.70	1.50	1	E	A	-28.3	7.3	-188.0	0.0	0.0	54.2	1.6	-1.5	0.0	0.0	13.1	0.0	2.4	-278.9
169	17599925.53	4860587.02	1.50	1	D	A	84.7	-9.0	0.0	0.0	0.0	54.1	1.6	-1.5	0.0	0.0	0.0	0.0	2.2	19.3
169	17599925.53	4860587.02	1.50	1	N	A	-28.3	-9.0	-188.0	0.0	0.0	54.1	1.6	-1.5	0.0	0.0	0.0	0.0	2.2	-281.7
169	17599925.53	4860587.02	1.50	1	E	A	-28.3	-9.0	-188.0	0.0	0.0	54.1	1.6	-1.5	0.0	0.0	0.0	0.0	2.2	-281.7
176	17599912.62	4860593.56	1.50	0	D	A	84.7	3.8	0.0	0.0	0.0	54.1	1.6	-1.4	0.0	0.0	5.0	0.0	0.0	29.3
176	17599912.62	4860593.56	1.50	0	N	A	-28.3	3.8	-188.0	0.0	0.0	54.1	1.6	-1.4	0.0	0.0	5.0	0.0	0.0	-271.7
176	17599912.62	4860593.56	1.50	0	E	A	-28.3	3.8	-188.0	0.0	0.0	54.1	1.6	-1.4	0.0	0.0	5.0	0.0	0.0	-271.7
179	17599915.39	4860593.40	1.50	0	D	A	84.7	5.0	0.0	0.0	0.0	53.9	1.6	-1.3	0.0	0.0	4.6	0.0	0.0	30.8
179	17599915.39	4860593.40	1.50	0	N	A	-28.3	5.0	-188.0	0.0	0.0	53.9	1.6	-1.3	0.0	0.0	4.6	0.0	0.0	-270.2
179	17599915.39	4860593.40	1.50	0	E	A	-28.3	5.0	-188.0	0.0	0.0	53.9	1.6	-1.3	0.0	0.0	4.6	0.0	0.0	-270.2
184	17599917.16	4860593.30	1.50	0	D	A	84.7	-4.0	0.0	0.0	0.0	53.8	1.6	-1.3	0.0	0.0	0.0	0.0	0.0	26.5
184	17599917.16	4860593.30	1.50	0	N	A	-28.3	-4.0	-188.0	0.0	0.0	53.8	1.6	-1.3	0.0	0.0	0.0	0.0	0.0	-274.5
184	17599917.16	4860593.30	1.50	0	E	A	-28.3	-4.0	-188.0	0.0	0.0	53.8	1.6	-1.3	0.0	0.0	0.0	0.0	0.0	-274.5
188	17599912.07	4860593.59	1.50	1	D	A	84.7	1.2	0.0	0.0	0.0	54.2	1.7	-1.5	0.0	0.0	24.6	0.0	2.0	4.9
188	17599912.07	4860593.59	1.50	1	N	A	-28.3	1.2	-188.0	0.0	0.0	54.2	1.7	-1.5	0.0	0.0	24.6	0.0	2.0	-296.1
188	17599912.07	4860593.59	1.50	1	E	A	-28.3	1.2	-188.0	0.0	0.0	54.2	1.7	-1.5	0.0	0.0	24.6	0.0	2.0	-296.1
190	17599914.91	4860593.43	1.50	1	D	A	84.7	6.4	0.0	0.0	0.0	54.2	1.7	-1.5	0.0	0.0	16.5	0.0	2.0	18.2
190	17599914.91	4860593.43	1.50	1	N	A	-28.3	6.4	-188.0	0.0	0.0	54.2	1.7	-1.5	0.0	0.0	16.5	0.0	2.0	-282.8
190	17599914.91	4860593.43	1.50	1	E	A	-28.3	6.4	-188.0	0.0	0.0	54.2	1.7	-1.5	0.0	0.0	16.5	0.0	2.0	-282.8
193	17599917.22	4860593.30	1.50	1	D	A	84.7	-5.7	0.0	0.0	0.0	54.3	1.7	-1.5	0.0	0.0	0.0	0.0	2.2	22.4
193	17599917.22	4860593.30	1.50	1	N	A	-28.3	-5.7	-188.0	0.0	0.0	54.3	1.7	-1.5	0.0	0.0	0.0	0.0	2.2	-278.6
193	17599917.22	4860593.30	1.50	1	E	A	-28.3	-5.7	-188.0	0.0	0.0	54.3	1.7	-1.5	0.0	0.0	0.0	0.0	2.2	-278.6

Point Source, ISO 9613, Name: "Truck Idling", ID: "MdTrk_Idle01"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
204	17599926.07	4860586.57	1.80	0	D	A	92.0	0.0	-0.8	0.0	0.0	53.5	0.7	-0.7	0.0	0.0	0.0	0.0	0.0	37.8
204	17599926.07	4860586.57	1.80	0	N	A	92.0	0.0	-188.0	0.0	0.0	53.5	0.7	-0.7	0.0	0.0	0.0	0.0	0.0	-149.5
204	17599926.07	4860586.57	1.80	0	E	A	92.0	0.0	-188.0	0.0	0.0	53.5	0.7	-0.7	0.0	0.0	0.0	0.0	0.0	-149.5
207	17599926.07	4860586.57	1.80	1	D	A	92.0	0.0	-0.8	0.0	0.0	54.1	0.7	-1.0	0.0	0.0	0.0	0.0	2.0	35.4
207	17599926.07	4860586.57	1.80	1	N	A	92.0	0.0	-188.0	0.0	0.0	54.1	0.7	-1.0	0.0	0.0	0.0	0.0	2.0	-151.8
207	17599926.07	4860586.57	1.80	1	E	A	92.0	0.0	-188.0	0.0	0.0	54.1	0.7	-1.0	0.0	0.0	0.0	0.0	2.0	-151.8

Line Source, ISO 9613, Name: "Dump Truck movement", ID: "DmpTrk_Mvt01"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
285	17599986.77	4860534.56	2.50	0	D	A	70.9	15.0	0.0	0.0	0.0	52.9	0.9	-1.3	0.0	0.0	0.0	0.0	0.0	33.4
285	17599986.77	4860534.56	2.50	0	N	A	-36.9	15.0	-188.0	0.0	0.0	52.9	0.9	-1.3	0.0	0.0	0.0	0.0	0.0	-262.4
285	17599986.77	4860534.56	2.50	0	E	A	-36.9	15.0	-188.0	0.0	0.0	52.9	0.9	-1.3	0.0	0.0	0.0	0.0	0.0	-262.4
292	17599990.77	4860538.67	2.50	1	D	A	70.9	13.1	0.0	0.0	0.0	53.2	0.9	-1.1	0.0	0.0	0.0	0.0	2.4	28.5
292	17599990.77	4860538.67	2.50	1	N	A	-36.9	13.1	-188.0	0.0	0.0	53.2	0.9	-1.1	0.0	0.0	0.0	0.0	2.4	-267.3
292	17599990.77	4860538.67	2.50	1	E	A	-36.9	13.1	-188.0	0.0	0.0	53.2	0.9	-1.1	0.0	0.0	0.0	0.0	2.4	-267.3
294	17599980.81	4860528.45	2.50	1	D	A	70.9	9.2	0.0	0.0	0.0	54.0	1.0	-0.8	0.0	0.0	0.0	0.0	2.4	23.5
294	17599980.81	4860528.45	2.50	1	N	A	-36.9	9.2	-188.0	0.0	0.0	54.0	1.0	-0.8	0.0	0.0	0.0	0.0	2.4	-272.3
294	17599980.81	4860528.45	2.50	1	E	A	-36.9	9.2	-188.0	0.0	0.0	54.0	1.0	-0.8	0.0	0.0	0.0	0.0	2.4	-272.3
297	17599976.81	4860524.34	2.50	1	D	A	70.9	5.1	0.0	0.0	0.0	54.3	1.0	-0.7	0.0	0.0	0.0	0.0	2.9	18.4
297	17599976.81	4860524.34	2.50	1	N	A	-36.9	5.1	-188.0	0.0	0.0	54.3	1.0	-0.7	0.0	0.0	0.0	0.0	2.9	-277.3
297	17599976.81	4860524.34	2.50	1	E	A	-36.9	5.1	-188.0	0.0	0.0	54.3	1.0	-0.7	0.0	0.0	0.0	0.0	2.9	-277.3
302	17599956.67	4860534.24	2.50	0	D	A	70.9	14.3	0.0	0.0	0.0	54.0	1.0	-0.3	0.0	0.0	0.0	0.0	0.0	30.5

Line Source, ISO 9613, Name: "Dump Truck movement", ID: "DmpTrk_Mvt01"																					
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr	
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)							
302	17599956.67	4860534.24	2.50	0	N	A	-36.9	14.3	-188.0	0.0	0.0	54.0	1.0	-0.3	0.0	0.0	0.0	0.0	0.0	-265.2	
302	17599956.67	4860534.24	2.50	0	E	A	-36.9	14.3	-188.0	0.0	0.0	54.0	1.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	-265.2
306	17600015.85	4860557.13	2.50	0	D	A	70.9	10.7	0.0	0.0	0.0	50.4	0.7	-1.8	0.0	0.0	0.0	0.0	0.0	32.3	
306	17600015.85	4860557.13	2.50	0	N	A	-36.9	10.7	-188.0	0.0	0.0	50.4	0.7	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	-263.5
306	17600015.85	4860557.13	2.50	0	E	A	-36.9	10.7	-188.0	0.0	0.0	50.4	0.7	-1.8	0.0	0.0	0.0	0.0	0.0	0.0	-263.5
309	17600015.85	4860557.13	2.50	1	D	A	70.9	10.7	0.0	0.0	0.0	51.5	0.8	-2.0	0.0	0.0	0.0	0.0	2.1	29.2	
309	17600015.85	4860557.13	2.50	1	N	A	-36.9	10.7	-188.0	0.0	0.0	51.5	0.8	-2.0	0.0	0.0	0.0	0.0	2.1	-266.6	
309	17600015.85	4860557.13	2.50	1	E	A	-36.9	10.7	-188.0	0.0	0.0	51.5	0.8	-2.0	0.0	0.0	0.0	0.0	2.1	-266.6	
313	17600012.65	4860554.08	2.50	1	D	A	70.9	4.6	0.0	0.0	0.0	59.6	1.5	-1.6	0.0	0.0	23.1	0.0	2.4	-9.5	
313	17600012.65	4860554.08	2.50	1	N	A	-36.9	4.6	-188.0	0.0	0.0	59.6	1.5	-1.6	0.0	0.0	23.1	0.0	2.4	-305.3	
313	17600012.65	4860554.08	2.50	1	E	A	-36.9	4.6	-188.0	0.0	0.0	59.6	1.5	-1.6	0.0	0.0	23.1	0.0	2.4	-305.3	
315	17600016.89	4860558.12	2.50	1	D	A	70.9	9.5	0.0	0.0	0.0	59.4	1.5	-1.6	0.0	0.0	23.2	0.0	2.4	-4.5	
315	17600016.89	4860558.12	2.50	1	N	A	-36.9	9.5	-188.0	0.0	0.0	59.4	1.5	-1.6	0.0	0.0	23.2	0.0	2.4	-300.2	
315	17600016.89	4860558.12	2.50	1	E	A	-36.9	9.5	-188.0	0.0	0.0	59.4	1.5	-1.6	0.0	0.0	23.2	0.0	2.4	-300.2	
319	17600015.65	4860557.06	2.50	0	D	A	70.9	10.7	0.0	0.0	0.0	50.4	0.7	-1.8	0.0	0.0	0.0	0.0	0.0	32.2	
319	17600015.65	4860557.06	2.50	0	N	A	-36.9	10.7	-188.0	0.0	0.0	50.4	0.7	-1.8	0.0	0.0	0.0	0.0	0.0	-263.5	
319	17600015.65	4860557.06	2.50	0	E	A	-36.9	10.7	-188.0	0.0	0.0	50.4	0.7	-1.8	0.0	0.0	0.0	0.0	0.0	-263.5	
323	17600015.65	4860557.06	2.50	1	D	A	70.9	10.7	0.0	0.0	0.0	51.5	0.8	-2.0	0.0	0.0	0.0	0.0	2.1	29.2	
323	17600015.65	4860557.06	2.50	1	N	A	-36.9	10.7	-188.0	0.0	0.0	51.5	0.8	-2.0	0.0	0.0	0.0	0.0	2.1	-266.6	
323	17600015.65	4860557.06	2.50	1	E	A	-36.9	10.7	-188.0	0.0	0.0	51.5	0.8	-2.0	0.0	0.0	0.0	0.0	2.1	-266.6	
327	17600016.88	4860558.28	2.50	1	D	A	70.9	9.2	0.0	0.0	0.0	59.4	1.5	-1.6	0.0	0.0	23.2	0.0	2.4	-4.8	
327	17600016.88	4860558.28	2.50	1	N	A	-36.9	9.2	-188.0	0.0	0.0	59.4	1.5	-1.6	0.0	0.0	23.2	0.0	2.4	-300.5	
327	17600016.88	4860558.28	2.50	1	E	A	-36.9	9.2	-188.0	0.0	0.0	59.4	1.5	-1.6	0.0	0.0	23.2	0.0	2.4	-300.5	
329	17600012.70	4860554.16	2.50	1	D	A	70.9	5.4	0.0	0.0	0.0	59.5	1.5	-1.6	0.0	0.0	23.1	0.0	2.4	-8.7	
329	17600012.70	4860554.16	2.50	1	N	A	-36.9	5.4	-188.0	0.0	0.0	59.5	1.5	-1.6	0.0	0.0	23.1	0.0	2.4	-304.5	
329	17600012.70	4860554.16	2.50	1	E	A	-36.9	5.4	-188.0	0.0	0.0	59.5	1.5	-1.6	0.0	0.0	23.1	0.0	2.4	-304.5	
332	17599967.94	4860512.49	2.50	0	D	A	70.9	14.2	0.0	0.0	0.0	54.6	1.0	-1.2	0.0	0.0	0.0	0.0	0.0	30.6	
332	17599967.94	4860512.49	2.50	0	N	A	-36.9	14.2	-188.0	0.0	0.0	54.6	1.0	-1.2	0.0	0.0	0.0	0.0	0.0	-265.2	
332	17599967.94	4860512.49	2.50	0	E	A	-36.9	14.2	-188.0	0.0	0.0	54.6	1.0	-1.2	0.0	0.0	0.0	0.0	0.0	-265.2	
337	17599972.97	4860519.45	2.50	1	D	A	70.9	9.7	0.0	0.0	0.0	54.6	1.0	-0.8	0.0	0.0	0.0	0.0	3.0	22.7	
337	17599972.97	4860519.45	2.50	1	N	A	-36.9	9.7	-188.0	0.0	0.0	54.6	1.0	-0.8	0.0	0.0	0.0	0.0	3.0	-273.0	
337	17599972.97	4860519.45	2.50	1	E	A	-36.9	9.7	-188.0	0.0	0.0	54.6	1.0	-0.8	0.0	0.0	0.0	0.0	3.0	-273.0	
360	17599977.96	4860554.73	2.50	0	D	A	70.9	11.1	0.0	0.0	0.0	52.0	0.8	-0.6	0.0	0.0	0.0	0.0	0.0	29.8	
360	17599977.96	4860554.73	2.50	0	N	A	-36.9	11.1	-188.0	0.0	0.0	52.0	0.8	-0.6	0.0	0.0	0.0	0.0	0.0	-266.0	
360	17599977.96	4860554.73	2.50	0	E	A	-36.9	11.1	-188.0	0.0	0.0	52.0	0.8	-0.6	0.0	0.0	0.0	0.0	0.0	-266.0	
366	17600008.36	4860550.98	2.50	0	D	A	70.9	8.9	0.0	0.0	0.0	51.1	0.8	-1.7	0.0	0.0	0.0	0.0	0.0	29.6	
366	17600008.36	4860550.98	2.50	0	N	A	-36.9	8.9	-188.0	0.0	0.0	51.1	0.8	-1.7	0.0	0.0	0.0	0.0	0.0	-266.1	
366	17600008.36	4860550.98	2.50	0	E	A	-36.9	8.9	-188.0	0.0	0.0	51.1	0.8	-1.7	0.0	0.0	0.0	0.0	0.0	-266.1	
373	17600008.36	4860550.98	2.50	1	D	A	70.9	8.9	0.0	0.0	0.0	52.0	0.8	-1.2	0.0	0.0	0.0	0.0	2.1	26.1	
373	17600008.36	4860550.98	2.50	1	N	A	-36.9	8.9	-188.0	0.0	0.0	52.0	0.8	-1.2	0.0	0.0	0.0	0.0	2.1	-269.7	
373	17600008.36	4860550.98	2.50	1	E	A	-36.9	8.9	-188.0	0.0	0.0	52.0	0.8	-1.2	0.0	0.0	0.0	0.0	2.1	-269.7	
376	17600008.36	4860550.98	2.50	1	D	A	70.9	8.9	0.0	0.0	0.0	59.7	1.5	-1.7	0.0	0.0	23.1	0.0	2.4	-5.3	
376	17600008.36	4860550.98	2.50	1	N	A	-36.9	8.9	-188.0	0.0	0.0	59.7	1.5	-1.7	0.0	0.0	23.1	0.0	2.4	-301.1	
376	17600008.36	4860550.98	2.50	1	E	A	-36.9	8.9	-188.0	0.0	0.0	59.7	1.5	-1.7	0.0	0.0	23.1	0.0	2.4	-301.1	
379	17599964.44	4860551.63	2.50	0	D	A	70.9	10.4	0.0	0.0	0.0	52.8	0.9	-1.0	0.0	0.0	0.0	0.0	0.0	28.6	
379	17599964.44	4860551.63	2.50	0	N	A	-36.9	10.4	-188.0	0.0	0.0	52.8	0.9	-1.0	0.0	0.0	0.0	0.0	0.0	-267.2	
379	17599964.44	4860551.63	2.50	0	E	A	-36.9	10.4	-188.0	0.0	0.0	52.8	0.9	-1.0	0.0	0.0	0.0	0.0	0.0	-267.2	
384	17600007.77	4860550.59	2.50	0	D	A	70.9	8.8	0.0	0.0	0.0	51.1	0.8	-1.7	0.0	0.0	0.0	0.0	0.0	29.4	
384	17600007.77	4860550.59	2.50	0	N	A	-36.9	8.8	-188.0	0.0	0.0	51.1	0.8	-1.7	0.0	0.0	0.0	0.0	0.0	-266.4	
384	17600007.77	4860550.59	2.50	0	E	A	-36.9	8.8	-188.0	0.0	0.0	51.1	0.8	-1.7	0.0	0.0	0.0	0.0	0.0	-266.4	
393	17600007.77	4860550.59	2.50	1	D	A	70.9	8.8	0.0	0.0	0.0	52.1	0.8	-1.2	0.0	0.0	0.0	0.0	2.1	25.9	
393	17600007.77	4860550.59	2.50	1	N	A	-36.9	8.8	-188.0	0.0	0.0	52.1	0.8	-1.2	0.0	0.0	0.0	0.0	2.1	-269.9	
393	17600007.77	4860550.59	2.50	1	E	A	-36.9	8.8	-188.0	0.0	0.0	52.1	0.8	-1.2	0.0	0.0	0.0	0.0	2.1	-269.9	
399	17600007.77	4860550.59	2.50	1	D	A	70.9	8.8	0.0	0.0	0.0	59.7	1.5	-1.7	0.0	0.0	23.1	0.0	2.4	-5.4	
399	17600007.77	4860550.59	2.50	1	N	A	-36.9	8.8	-188.0	0.0	0.0	59.7	1.5	-1.7	0.0	0.0	23.1	0.0	2.4	-301.2	
399	17600007.77	4860550.59	2.50	1	E	A	-36.9	8.8	-188.0	0.0	0.0	59.7	1.5	-1.7	0.0	0.0	23.1	0.0	2.4	-301.2	
402	17599954.85	4860492.58	2.50	0	D	A	70.9	13.3	0.0	0.0	0.0	55.9	1.1	-2.0	0.0	0.0	0.0	0.0	0.0	29.1	
402	17599954.85	4860492.58	2.50	0	N	A	-36.9	13.3	-188.0	0.0	0.0	55.9	1.1	-2.0	0.0	0.0	0.0	0.0	0.0	-266.7	
402	17599954.85	4860492.58	2.50	0	E	A	-36.9	13.3	-188.0	0.0	0.0	55.9	1.1	-2.0	0.0	0.0	0.0	0.0	0.0	-266.7	
405	17599993.48	4860546.55	2.50	0	D	A	70.9	9.4	0.0	0.0	0.0	51.9	0.8	-0.8	0.0	0.0	0.0	0.0	0.0	28.4	
405	17599993.48	4860546.55	2.50	0	N	A	-36.9	9.4	-188.0	0.0	0.0	51.9	0.8	-0.8	0.0	0.0	0.0	0.0	0.0	-267.3	
405	17599993.48	4860546.55	2.50	0	E	A	-36.9	9.4	-188.0	0.0	0.0	51.9	0.8	-0.8	0.0	0.0	0.0	0.0	0.0	-267.3	
407	17599993.48	4860546.55	2.50	1	D	A	70.9	9.4	0.0	0.0	0.0	52.6	0.9	-0.8	0.0	0.0	0.0	0.0	2.4	25.2	

Line Source, ISO 9613, Name: "Dump Truck movement", ID: "DmpTrk_Mvt01"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB(A))						
407	17599993.48	4860546.55	2.50	1	N	A	-36.9	9.4	-188.0	0.0	0.0	52.6	0.9	-0.8	0.0	0.0	0.0	0.0	2.4	-270.6
407	17599993.48	4860546.55	2.50	1	E	A	-36.9	9.4	-188.0	0.0	0.0	52.6	0.9	-0.8	0.0	0.0	0.0	0.0	2.4	-270.6
411	17600001.47	4860547.40	2.50	0	D	A	70.9	8.9	0.0	0.0	0.0	51.6	0.8	-1.0	0.0	0.0	0.0	0.0	0.0	28.4
411	17600001.47	4860547.40	2.50	0	N	A	-36.9	8.9	-188.0	0.0	0.0	51.6	0.8	-1.0	0.0	0.0	0.0	0.0	0.0	-267.3
411	17600001.47	4860547.40	2.50	0	E	A	-36.9	8.9	-188.0	0.0	0.0	51.6	0.8	-1.0	0.0	0.0	0.0	0.0	0.0	-267.3
413	17600001.47	4860547.40	2.50	1	D	A	70.9	8.9	0.0	0.0	0.0	52.4	0.8	-0.9	0.0	0.0	0.0	0.0	2.4	25.1
413	17600001.47	4860547.40	2.50	1	N	A	-36.9	8.9	-188.0	0.0	0.0	52.4	0.8	-0.9	0.0	0.0	0.0	0.0	2.4	-270.7
413	17600001.47	4860547.40	2.50	1	E	A	-36.9	8.9	-188.0	0.0	0.0	52.4	0.8	-0.9	0.0	0.0	0.0	0.0	2.4	-270.7
416	17600004.49	4860548.62	2.50	1	D	A	70.9	1.2	0.0	0.0	0.0	59.8	1.6	-1.8	0.0	0.0	23.2	0.0	2.4	-13.1
416	17600004.49	4860548.62	2.50	1	N	A	-36.9	1.2	-188.0	0.0	0.0	59.8	1.6	-1.8	0.0	0.0	23.2	0.0	2.4	-308.9
416	17600004.49	4860548.62	2.50	1	E	A	-36.9	1.2	-188.0	0.0	0.0	59.8	1.6	-1.8	0.0	0.0	23.2	0.0	2.4	-308.9
419	17599942.66	4860505.87	2.50	0	D	A	70.9	12.9	0.0	0.0	0.0	55.7	1.1	-1.3	0.0	0.0	0.0	0.0	0.0	28.3
419	17599942.66	4860505.87	2.50	0	N	A	-36.9	12.9	-188.0	0.0	0.0	55.7	1.1	-1.3	0.0	0.0	0.0	0.0	0.0	-267.5
419	17599942.66	4860505.87	2.50	0	E	A	-36.9	12.9	-188.0	0.0	0.0	55.7	1.1	-1.3	0.0	0.0	0.0	0.0	0.0	-267.5
422	17600001.22	4860547.27	2.50	0	D	A	70.9	8.6	0.0	0.0	0.0	51.6	0.8	-1.0	0.0	0.0	0.0	0.0	0.0	28.1
422	17600001.22	4860547.27	2.50	0	N	A	-36.9	8.6	-188.0	0.0	0.0	51.6	0.8	-1.0	0.0	0.0	0.0	0.0	0.0	-267.7
422	17600001.22	4860547.27	2.50	0	E	A	-36.9	8.6	-188.0	0.0	0.0	51.6	0.8	-1.0	0.0	0.0	0.0	0.0	0.0	-267.7
424	17600001.22	4860547.27	2.50	1	D	A	70.9	8.6	0.0	0.0	0.0	52.4	0.8	-0.9	0.0	0.0	0.0	0.0	2.4	24.7
424	17600001.22	4860547.27	2.50	1	N	A	-36.9	8.6	-188.0	0.0	0.0	52.4	0.8	-0.9	0.0	0.0	0.0	0.0	2.4	-271.0
424	17600001.22	4860547.27	2.50	1	E	A	-36.9	8.6	-188.0	0.0	0.0	52.4	0.8	-0.9	0.0	0.0	0.0	0.0	2.4	-271.0
427	17599969.73	4860557.96	2.50	0	D	A	70.9	8.6	0.0	0.0	0.0	52.2	0.8	-0.7	0.0	0.0	0.0	0.0	0.0	27.1
427	17599969.73	4860557.96	2.50	0	N	A	-36.9	8.6	-188.0	0.0	0.0	52.2	0.8	-0.7	0.0	0.0	0.0	0.0	0.0	-268.7
427	17599969.73	4860557.96	2.50	0	E	A	-36.9	8.6	-188.0	0.0	0.0	52.2	0.8	-0.7	0.0	0.0	0.0	0.0	0.0	-268.7
431	17599985.95	4860548.76	2.50	0	D	A	70.9	8.5	0.0	0.0	0.0	52.0	0.8	-0.6	0.0	0.0	0.0	0.0	0.0	27.2
431	17599985.95	4860548.76	2.50	0	N	A	-36.9	8.5	-188.0	0.0	0.0	52.0	0.8	-0.6	0.0	0.0	0.0	0.0	0.0	-268.6
431	17599985.95	4860548.76	2.50	0	E	A	-36.9	8.5	-188.0	0.0	0.0	52.0	0.8	-0.6	0.0	0.0	0.0	0.0	0.0	-268.6
434	17599985.12	4860549.18	2.50	1	D	A	70.9	4.7	0.0	0.0	0.0	52.6	0.9	-0.7	0.0	0.0	0.0	0.0	2.9	19.8
434	17599985.12	4860549.18	2.50	1	N	A	-36.9	4.7	-188.0	0.0	0.0	52.6	0.9	-0.7	0.0	0.0	0.0	0.0	2.9	-275.9
434	17599985.12	4860549.18	2.50	1	E	A	-36.9	4.7	-188.0	0.0	0.0	52.6	0.9	-0.7	0.0	0.0	0.0	0.0	2.9	-275.9
436	17599987.74	4860547.86	2.50	1	D	A	70.9	4.7	0.0	0.0	0.0	52.6	0.9	-0.6	0.0	0.0	0.0	0.0	2.4	20.3
436	17599987.74	4860547.86	2.50	1	N	A	-36.9	4.7	-188.0	0.0	0.0	52.6	0.9	-0.6	0.0	0.0	0.0	0.0	2.4	-275.5
436	17599987.74	4860547.86	2.50	1	E	A	-36.9	4.7	-188.0	0.0	0.0	52.6	0.9	-0.6	0.0	0.0	0.0	0.0	2.4	-275.5
439	17599989.09	4860547.18	2.50	1	D	A	70.9	-11.9	0.0	0.0	0.0	52.6	0.9	-0.7	0.0	0.0	0.0	0.0	2.4	3.8
439	17599989.09	4860547.18	2.50	1	N	A	-36.9	-11.9	-188.0	0.0	0.0	52.6	0.9	-0.7	0.0	0.0	0.0	0.0	2.4	-292.0
439	17599989.09	4860547.18	2.50	1	E	A	-36.9	-11.9	-188.0	0.0	0.0	52.6	0.9	-0.7	0.0	0.0	0.0	0.0	2.4	-292.0
504	17599949.16	4860518.15	2.50	0	D	A	70.9	9.3	0.0	0.0	0.0	55.0	1.1	-0.8	0.0	0.0	0.0	0.0	0.0	24.9
504	17599949.16	4860518.15	2.50	0	N	A	-36.9	9.3	-188.0	0.0	0.0	55.0	1.1	-0.8	0.0	0.0	0.0	0.0	0.0	-270.8
504	17599949.16	4860518.15	2.50	0	E	A	-36.9	9.3	-188.0	0.0	0.0	55.0	1.1	-0.8	0.0	0.0	0.0	0.0	0.0	-270.8
542	17599936.58	4860493.39	2.50	0	D	A	70.9	9.3	0.0	0.0	0.0	56.3	1.2	-1.7	0.0	0.0	0.0	0.0	0.0	24.4
542	17599936.58	4860493.39	2.50	0	N	A	-36.9	9.3	-188.0	0.0	0.0	56.3	1.2	-1.7	0.0	0.0	0.0	0.0	0.0	-271.4
542	17599936.58	4860493.39	2.50	0	E	A	-36.9	9.3	-188.0	0.0	0.0	56.3	1.2	-1.7	0.0	0.0	0.0	0.0	0.0	-271.4
570	17599945.45	4860482.25	2.50	0	D	A	70.9	9.3	0.0	0.0	0.0	56.5	1.2	-2.0	0.0	0.0	0.0	0.0	0.0	24.4
570	17599945.45	4860482.25	2.50	0	N	A	-36.9	9.3	-188.0	0.0	0.0	56.5	1.2	-2.0	0.0	0.0	0.0	0.0	0.0	-271.3
570	17599945.45	4860482.25	2.50	0	E	A	-36.9	9.3	-188.0	0.0	0.0	56.5	1.2	-2.0	0.0	0.0	0.0	0.0	0.0	-271.3
622	17599936.26	4860486.81	2.50	0	D	A	70.9	7.2	0.0	0.0	0.0	56.6	1.2	-1.8	0.0	0.0	0.0	0.0	0.0	22.2
622	17599936.26	4860486.81	2.50	0	N	A	-36.9	7.2	-188.0	0.0	0.0	56.6	1.2	-1.8	0.0	0.0	0.0	0.0	0.0	-273.6
622	17599936.26	4860486.81	2.50	0	E	A	-36.9	7.2	-188.0	0.0	0.0	56.6	1.2	-1.8	0.0	0.0	0.0	0.0	0.0	-273.6
626	17599939.26	4860482.73	2.50	0	D	A	70.9	7.3	0.0	0.0	0.0	56.7	1.2	-2.0	0.0	0.0	0.0	0.0	0.0	22.3
626	17599939.26	4860482.73	2.50	0	N	A	-36.9	7.3	-188.0	0.0	0.0	56.7	1.2	-2.0	0.0	0.0	0.0	0.0	0.0	-273.5
626	17599939.26	4860482.73	2.50	0	E	A	-36.9	7.3	-188.0	0.0	0.0	56.7	1.2	-2.0	0.0	0.0	0.0	0.0	0.0	-273.5
651	17600011.22	4860552.77	2.50	0	D	A	70.9	-2.1	0.0	0.0	0.0	50.9	0.7	-1.8	0.0	0.0	0.0	0.0	0.0	19.0
651	17600011.22	4860552.77	2.50	0	N	A	-36.9	-2.1	-188.0	0.0	0.0	50.9	0.7	-1.8	0.0	0.0	0.0	0.0	0.0	-276.8
651	17600011.22	4860552.77	2.50	0	E	A	-36.9	-2.1	-188.0	0.0	0.0	50.9	0.7	-1.8	0.0	0.0	0.0	0.0	0.0	-276.8
655	17600011.22	4860552.77	2.50	1	D	A	70.9	-2.1	0.0	0.0	0.0	51.9	0.8	-1.5	0.0	0.0	0.0	0.0	2.1	15.6
655	17600011.22	4860552.77	2.50	1	N	A	-36.9	-2.1	-188.0	0.0	0.0	51.9	0.8	-1.5	0.0	0.0	0.0	0.0	2.1	-280.2
655	17600011.22	4860552.77	2.50	1	E	A	-36.9	-2.1	-188.0	0.0	0.0	51.9	0.8	-1.5	0.0	0.0	0.0	0.0	2.1	-280.2
657	17600011.22	4860552.77	2.50	1	D	A	70.9	-2.1	0.0	0.0	0.0	59.6	1.5	-1.6	0.0	0.0	23.1	0.0	2.4	-16.2
657	17600011.22	4860552.77	2.50	1	N	A	-36.9	-2.1	-188.0	0.0	0.0	59.6	1.5	-1.6	0.0	0.0	23.1	0.0	2.4	-312.0
657	17600011.22	4860552.77	2.50	1	E	A	-36.9	-2.1	-188.0	0.0	0.0	59.6	1.5	-1.6	0.0	0.0	23.1	0.0	2.4	-312.0

Line Source, ISO 9613, Name: "Medium Truck Movements", ID: "MdTrk_Mvt01"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)						
342	17599932.80	4860583.77	1.80	0	D	A	66.9	11.5	0.0	0.0	0.0	53.2	0.7	-0.5	0.0	0.0	0.0	0.0	0.0	25.0
342	17599932.80	4860583.77	1.80	0	N	A	-43.1	11.5	-188.0	0.0	0.0	53.2	0.7	-0.5	0.0	0.0	0.0	0.0	0.0	-273.0
342	17599932.80	4860583.77	1.80	0	E	A	-43.1	11.5	-188.0	0.0	0.0	53.2	0.7	-0.5	0.0	0.0	0.0	0.0	0.0	-273.0
347	17599947.99	4860575.73	1.80	0	D	A	66.9	13.1	0.0	0.0	0.0	52.5	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	27.4
347	17599947.99	4860575.73	1.80	0	N	A	-43.1	13.1	-188.0	0.0	0.0	52.5	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	-270.6
347	17599947.99	4860575.73	1.80	0	E	A	-43.1	13.1	-188.0	0.0	0.0	52.5	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	-270.6
355	17599928.83	4860585.87	1.80	1	D	A	66.9	7.0	0.0	0.0	0.0	54.1	0.8	-1.1	0.0	0.0	0.0	0.0	2.3	17.8
355	17599928.83	4860585.87	1.80	1	N	A	-43.1	7.0	-188.0	0.0	0.0	54.1	0.8	-1.1	0.0	0.0	0.0	0.0	2.3	-280.2
355	17599928.83	4860585.87	1.80	1	E	A	-43.1	7.0	-188.0	0.0	0.0	54.1	0.8	-1.1	0.0	0.0	0.0	0.0	2.3	-280.2
443	17600020.39	4860561.21	1.80	0	D	A	66.9	9.5	0.0	0.0	0.0	49.9	0.5	-1.6	0.0	0.0	0.0	0.0	0.0	27.6
443	17600020.39	4860561.21	1.80	0	N	A	-43.1	9.5	-188.0	0.0	0.0	49.9	0.5	-1.6	0.0	0.0	0.0	0.0	0.0	-270.4
443	17600020.39	4860561.21	1.80	0	E	A	-43.1	9.5	-188.0	0.0	0.0	49.9	0.5	-1.6	0.0	0.0	0.0	0.0	0.0	-270.4
444	17600019.41	4860560.35	1.80	1	D	A	66.9	8.1	0.0	0.0	0.0	51.2	0.6	-1.9	0.0	0.0	0.0	0.0	2.2	22.8
444	17600019.41	4860560.35	1.80	1	N	A	-43.1	8.1	-188.0	0.0	0.0	51.2	0.6	-1.9	0.0	0.0	0.0	0.0	2.2	-275.2
444	17600019.41	4860560.35	1.80	1	E	A	-43.1	8.1	-188.0	0.0	0.0	51.2	0.6	-1.9	0.0	0.0	0.0	0.0	2.2	-275.2
446	17600022.24	4860562.82	1.80	1	D	A	66.9	0.4	0.0	0.0	0.0	51.0	0.6	-1.6	0.0	0.0	0.0	0.0	2.2	15.2
446	17600022.24	4860562.82	1.80	1	N	A	-43.1	0.4	-188.0	0.0	0.0	51.0	0.6	-1.6	0.0	0.0	0.0	0.0	2.2	-282.8
446	17600022.24	4860562.82	1.80	1	E	A	-43.1	0.4	-188.0	0.0	0.0	51.0	0.6	-1.6	0.0	0.0	0.0	0.0	2.2	-282.8
451	17600023.22	4860563.67	1.80	1	D	A	66.9	1.8	0.0	0.0	0.0	50.9	0.6	-1.6	0.0	0.0	0.0	0.0	2.2	16.5
451	17600023.22	4860563.67	1.80	1	N	A	-43.1	1.8	-188.0	0.0	0.0	50.9	0.6	-1.6	0.0	0.0	0.0	0.0	2.2	-281.5
451	17600023.22	4860563.67	1.80	1	E	A	-43.1	1.8	-188.0	0.0	0.0	50.9	0.6	-1.6	0.0	0.0	0.0	0.0	2.2	-281.5
455	17600020.39	4860561.21	1.80	1	D	A	66.9	9.5	0.0	0.0	0.0	59.2	1.2	-2.4	0.0	0.0	23.3	0.0	3.1	-8.0
455	17600020.39	4860561.21	1.80	1	N	A	-43.1	9.5	-188.0	0.0	0.0	59.2	1.2	-2.4	0.0	0.0	23.3	0.0	3.1	-306.0
455	17600020.39	4860561.21	1.80	1	E	A	-43.1	9.5	-188.0	0.0	0.0	59.2	1.2	-2.4	0.0	0.0	23.3	0.0	3.1	-306.0
458	17600013.88	4860555.41	1.80	0	D	A	66.9	9.3	0.0	0.0	0.0	50.6	0.5	-2.0	0.0	0.0	0.0	0.0	0.0	27.0
458	17600013.88	4860555.41	1.80	0	N	A	-43.1	9.3	-188.0	0.0	0.0	50.6	0.5	-2.0	0.0	0.0	0.0	0.0	0.0	-271.0
458	17600013.88	4860555.41	1.80	0	E	A	-43.1	9.3	-188.0	0.0	0.0	50.6	0.5	-2.0	0.0	0.0	0.0	0.0	0.0	-271.0
460	17600013.88	4860555.41	1.80	1	D	A	66.9	9.3	0.0	0.0	0.0	51.6	0.6	-2.2	0.0	0.0	0.0	0.0	2.2	24.0
460	17600013.88	4860555.41	1.80	1	N	A	-43.1	9.3	-188.0	0.0	0.0	51.6	0.6	-2.2	0.0	0.0	0.0	0.0	2.2	-274.0
460	17600013.88	4860555.41	1.80	1	E	A	-43.1	9.3	-188.0	0.0	0.0	51.6	0.6	-2.2	0.0	0.0	0.0	0.0	2.2	-274.0
463	17600012.40	4860554.05	1.80	1	D	A	66.9	6.5	0.0	0.0	0.0	59.6	1.2	-2.3	0.0	0.0	23.1	0.0	3.1	-11.4
463	17600012.40	4860554.05	1.80	1	N	A	-43.1	6.5	-188.0	0.0	0.0	59.6	1.2	-2.3	0.0	0.0	23.1	0.0	3.1	-309.4
463	17600012.40	4860554.05	1.80	1	E	A	-43.1	6.5	-188.0	0.0	0.0	59.6	1.2	-2.3	0.0	0.0	23.1	0.0	3.1	-309.4
466	17600015.52	4860556.90	1.80	1	D	A	66.9	6.0	0.0	0.0	0.0	59.4	1.2	-2.3	0.0	0.0	23.2	0.0	3.1	-11.7
466	17600015.52	4860556.90	1.80	1	N	A	-43.1	6.0	-188.0	0.0	0.0	59.4	1.2	-2.3	0.0	0.0	23.2	0.0	3.1	-309.7
466	17600015.52	4860556.90	1.80	1	E	A	-43.1	6.0	-188.0	0.0	0.0	59.4	1.2	-2.3	0.0	0.0	23.2	0.0	3.1	-309.7
467	17599916.01	4860595.76	1.80	0	D	A	66.9	7.8	0.0	0.0	0.0	53.8	0.7	-0.6	0.0	0.0	4.9	0.0	0.0	15.9
467	17599916.01	4860595.76	1.80	0	N	A	-43.1	7.8	-188.0	0.0	0.0	53.8	0.7	-0.6	0.0	0.0	4.9	0.0	0.0	-282.1
467	17599916.01	4860595.76	1.80	0	E	A	-43.1	7.8	-188.0	0.0	0.0	53.8	0.7	-0.6	0.0	0.0	4.9	0.0	0.0	-282.1
470	17599920.50	4860592.07	1.80	0	D	A	66.9	7.4	0.0	0.0	0.0	53.7	0.7	-0.7	0.0	0.0	0.0	0.0	0.0	20.6
470	17599920.50	4860592.07	1.80	0	N	A	-43.1	7.4	-188.0	0.0	0.0	53.7	0.7	-0.7	0.0	0.0	0.0	0.0	0.0	-277.4
470	17599920.50	4860592.07	1.80	0	E	A	-43.1	7.4	-188.0	0.0	0.0	53.7	0.7	-0.7	0.0	0.0	0.0	0.0	0.0	-277.4
473	17599923.87	4860589.30	1.80	0	D	A	66.9	5.0	0.0	0.0	0.0	53.5	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	18.3
473	17599923.87	4860589.30	1.80	0	N	A	-43.1	5.0	-188.0	0.0	0.0	53.5	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	-279.7
473	17599923.87	4860589.30	1.80	0	E	A	-43.1	5.0	-188.0	0.0	0.0	53.5	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	-279.7
475	17599925.85	4860587.67	1.80	0	D	A	66.9	2.9	0.0	0.0	0.0	53.5	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	16.2
475	17599925.85	4860587.67	1.80	0	N	A	-43.1	2.9	-188.0	0.0	0.0	53.5	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	-281.8
475	17599925.85	4860587.67	1.80	0	E	A	-43.1	2.9	-188.0	0.0	0.0	53.5	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	-281.8
479	17599914.20	4860597.25	1.80	1	D	A	66.9	1.4	0.0	0.0	0.0	54.4	0.8	-1.1	0.0	0.0	20.3	0.0	3.0	-9.1
479	17599914.20	4860597.25	1.80	1	N	A	-43.1	1.4	-188.0	0.0	0.0	54.4	0.8	-1.1	0.0	0.0	20.3	0.0	3.0	-307.1
479	17599914.20	4860597.25	1.80	1	E	A	-43.1	1.4	-188.0	0.0	0.0	54.4	0.8	-1.1	0.0	0.0	20.3	0.0	3.0	-307.1
482	17599916.14	4860595.66	1.80	1	D	A	66.9	5.6	0.0	0.0	0.0	54.4	0.8	-1.2	0.0	0.0	10.2	0.0	2.4	6.0
482	17599916.14	4860595.66	1.80	1	N	A	-43.1	5.6	-188.0	0.0	0.0	54.4	0.8	-1.2	0.0	0.0	10.2	0.0	2.4	-292.0
482	17599916.14	4860595.66	1.80	1	E	A	-43.1	5.6	-188.0	0.0	0.0	54.4	0.8	-1.2	0.0	0.0	10.2	0.0	2.4	-292.0
484	17599918.30	4860593.88	1.80	1	D	A	66.9	2.9	0.0	0.0	0.0	54.3	0.8	-1.1	0.0	0.0	9.9	0.0	2.4	3.6
484	17599918.30	4860593.88	1.80	1	N	A	-43.1	2.9	-188.0	0.0	0.0	54.3	0.8	-1.1	0.0	0.0	9.9	0.0	2.4	-294.4
484	17599918.30	4860593.88	1.80	1	E	A	-43.1	2.9	-188.0	0.0	0.0	54.3	0.8	-1.1	0.0	0.0	9.9	0.0	2.4	-294.4
487	17599920.30	4860592.23	1.80	1	D	A	66.9	5.1	0.0	0.0	0.0	54.3	0.8	-1.1	0.0	0.0	9.6	0.0	2.4	6.1
487	17599920.30	4860592.23	1.80	1	N	A	-43.1	5.1	-188.0	0.0	0.0	54.3	0.8	-1.1	0.0	0.0	9.6	0.0	2.4	-291.9
487	17599920.30	4860592.23	1.80	1	E	A	-43.1	5.1	-188.0	0.0	0.0	54.3	0.8	-1.1	0.0	0.0	9.6	0.0	2.4	-291.9
489	17599923.67	4860589.46	1.80	1	D	A	66.9	7.4	0.0	0.0	0.0	54.2	0.8	-1.0	0.0	0.0	9.1	0.0	2.3	8.8
489	17599923.67	4860589.46	1.80	1	N	A	-43.1	7.4	-188.0	0.0	0.0	54.2	0.8	-1.0	0.0	0.0	9.1	0.0	2.3	-289.2
489	17599923.67	4860589.46	1.80	1	E	A	-43.1	7.4	-188.0	0.0	0.0	54.2	0.8	-1.0	0.0	0.0	9.1	0.0	2.3	-289.2

Line Source, ISO 9613, Name: "Medium Truck Movements", ID: "MdTrk_Mvt01"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	dB(A)						
490	17599926.19	4860587.39	1.80	1	D	A	66.9	0.2	0.0	0.0	0.0	54.1	0.8	-1.0	0.0	0.0	0.0	0.0	2.3	10.9
490	17599926.19	4860587.39	1.80	1	N	A	-43.1	0.2	-188.0	0.0	0.0	54.1	0.8	-1.0	0.0	0.0	0.0	0.0	2.3	-287.1
490	17599926.19	4860587.39	1.80	1	E	A	-43.1	0.2	-188.0	0.0	0.0	54.1	0.8	-1.0	0.0	0.0	0.0	0.0	2.3	-287.1
494	17599929.61	4860549.77	1.80	0	D	A	66.9	12.4	0.0	0.0	0.0	54.5	0.8	-2.1	0.0	0.0	0.0	0.0	0.0	26.2
494	17599929.61	4860549.77	1.80	0	N	A	-43.1	12.4	-188.0	0.0	0.0	54.5	0.8	-2.1	0.0	0.0	0.0	0.0	0.0	-271.8
494	17599929.61	4860549.77	1.80	0	E	A	-43.1	12.4	-188.0	0.0	0.0	54.5	0.8	-2.1	0.0	0.0	0.0	0.0	0.0	-271.8
498	17599942.12	4860580.46	1.80	0	D	A	66.9	11.0	0.0	0.0	0.0	52.7	0.7	-0.4	0.0	0.0	0.0	0.0	0.0	25.0
498	17599942.12	4860580.46	1.80	0	N	A	-43.1	11.0	-188.0	0.0	0.0	52.7	0.7	-0.4	0.0	0.0	0.0	0.0	0.0	-273.0
498	17599942.12	4860580.46	1.80	0	E	A	-43.1	11.0	-188.0	0.0	0.0	52.7	0.7	-0.4	0.0	0.0	0.0	0.0	0.0	-273.0
507	17599918.32	4860534.78	1.80	0	D	A	66.9	13.0	0.0	0.0	0.0	55.5	0.9	-2.6	0.0	0.0	0.0	0.0	0.0	26.2
507	17599918.32	4860534.78	1.80	0	N	A	-43.1	13.0	-188.0	0.0	0.0	55.5	0.9	-2.6	0.0	0.0	0.0	0.0	0.0	-271.8
507	17599918.32	4860534.78	1.80	0	E	A	-43.1	13.0	-188.0	0.0	0.0	55.5	0.9	-2.6	0.0	0.0	0.0	0.0	0.0	-271.8
510	17600007.74	4860550.57	1.80	0	D	A	66.9	8.6	0.0	0.0	0.0	51.2	0.6	-2.1	0.0	0.0	0.0	0.0	0.0	25.9
510	17600007.74	4860550.57	1.80	0	N	A	-43.1	8.6	-188.0	0.0	0.0	51.2	0.6	-2.1	0.0	0.0	0.0	0.0	0.0	-272.1
510	17600007.74	4860550.57	1.80	0	E	A	-43.1	8.6	-188.0	0.0	0.0	51.2	0.6	-2.1	0.0	0.0	0.0	0.0	0.0	-272.1
512	17600007.74	4860550.57	1.80	1	D	A	66.9	8.6	0.0	0.0	0.0	52.1	0.6	-1.4	0.0	0.0	0.0	0.0	2.3	22.0
512	17600007.74	4860550.57	1.80	1	N	A	-43.1	8.6	-188.0	0.0	0.0	52.1	0.6	-1.4	0.0	0.0	0.0	0.0	2.3	-276.0
512	17600007.74	4860550.57	1.80	1	E	A	-43.1	8.6	-188.0	0.0	0.0	52.1	0.6	-1.4	0.0	0.0	0.0	0.0	2.3	-276.0
514	17600007.74	4860550.57	1.80	1	D	A	66.9	8.6	0.0	0.0	0.0	59.7	1.2	-2.4	0.0	0.0	23.2	0.0	3.1	-9.4
514	17600007.74	4860550.57	1.80	1	N	A	-43.1	8.6	-188.0	0.0	0.0	59.7	1.2	-2.4	0.0	0.0	23.2	0.0	3.1	-307.4
514	17600007.74	4860550.57	1.80	1	E	A	-43.1	8.6	-188.0	0.0	0.0	59.7	1.2	-2.4	0.0	0.0	23.2	0.0	3.1	-307.4
515	17599993.48	4860546.56	1.80	0	D	A	66.9	9.4	0.0	0.0	0.0	51.9	0.6	-0.7	0.0	0.0	0.0	0.0	0.0	24.5
515	17599993.48	4860546.56	1.80	0	N	A	-43.1	9.4	-188.0	0.0	0.0	51.9	0.6	-0.7	0.0	0.0	0.0	0.0	0.0	-273.5
515	17599993.48	4860546.56	1.80	0	E	A	-43.1	9.4	-188.0	0.0	0.0	51.9	0.6	-0.7	0.0	0.0	0.0	0.0	0.0	-273.5
517	17599993.48	4860546.56	1.80	1	D	A	66.9	9.4	0.0	0.0	0.0	52.6	0.7	-0.5	0.0	0.0	0.0	0.0	2.8	20.7
517	17599993.48	4860546.56	1.80	1	N	A	-43.1	9.4	-188.0	0.0	0.0	52.6	0.7	-0.5	0.0	0.0	0.0	0.0	2.8	-277.3
517	17599993.48	4860546.56	1.80	1	E	A	-43.1	9.4	-188.0	0.0	0.0	52.6	0.7	-0.5	0.0	0.0	0.0	0.0	2.8	-277.3
520	17599960.75	4860568.54	1.80	0	D	A	66.9	9.5	0.0	0.0	0.0	52.1	0.6	-0.6	0.0	0.0	0.0	0.0	0.0	24.3
520	17599960.75	4860568.54	1.80	0	N	A	-43.1	9.5	-188.0	0.0	0.0	52.1	0.6	-0.6	0.0	0.0	0.0	0.0	0.0	-273.7
520	17599960.75	4860568.54	1.80	0	E	A	-43.1	9.5	-188.0	0.0	0.0	52.1	0.6	-0.6	0.0	0.0	0.0	0.0	0.0	-273.7
524	17599979.42	4860553.47	1.80	0	D	A	66.9	9.5	0.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	24.1
524	17599979.42	4860553.47	1.80	0	N	A	-43.1	9.5	-188.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	-273.9
524	17599979.42	4860553.47	1.80	0	E	A	-43.1	9.5	-188.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	-273.9
527	17600001.25	4860547.27	1.80	0	D	A	66.9	8.7	0.0	0.0	0.0	51.6	0.6	-1.2	0.0	0.0	0.0	0.0	0.0	24.6
527	17600001.25	4860547.27	1.80	0	N	A	-43.1	8.7	-188.0	0.0	0.0	51.6	0.6	-1.2	0.0	0.0	0.0	0.0	0.0	-273.4
527	17600001.25	4860547.27	1.80	0	E	A	-43.1	8.7	-188.0	0.0	0.0	51.6	0.6	-1.2	0.0	0.0	0.0	0.0	0.0	-273.4
528	17600001.25	4860547.27	1.80	1	D	A	66.9	8.7	0.0	0.0	0.0	52.4	0.6	-0.9	0.0	0.0	0.0	0.0	2.8	20.6
528	17600001.25	4860547.27	1.80	1	N	A	-43.1	8.7	-188.0	0.0	0.0	52.4	0.6	-0.9	0.0	0.0	0.0	0.0	2.8	-277.4
528	17600001.25	4860547.27	1.80	1	E	A	-43.1	8.7	-188.0	0.0	0.0	52.4	0.6	-0.9	0.0	0.0	0.0	0.0	2.8	-277.4
530	17600004.24	4860548.41	1.80	1	D	A	66.9	0.0	0.0	0.0	0.0	59.9	1.3	-2.5	0.0	0.0	23.2	0.0	3.1	-18.1
530	17600004.24	4860548.41	1.80	1	N	A	-43.1	0.0	-188.0	0.0	0.0	59.9	1.3	-2.5	0.0	0.0	23.2	0.0	3.1	-316.1
530	17600004.24	4860548.41	1.80	1	E	A	-43.1	0.0	-188.0	0.0	0.0	59.9	1.3	-2.5	0.0	0.0	23.2	0.0	3.1	-316.1
532	17599935.14	4860594.15	1.80	0	D	A	66.9	4.5	0.0	0.0	0.0	52.7	0.7	-0.3	0.0	0.0	0.0	0.0	0.0	18.3
532	17599935.14	4860594.15	1.80	0	N	A	-43.1	4.5	-188.0	0.0	0.0	52.7	0.7	-0.3	0.0	0.0	0.0	0.0	0.0	-279.7
532	17599935.14	4860594.15	1.80	0	E	A	-43.1	4.5	-188.0	0.0	0.0	52.7	0.7	-0.3	0.0	0.0	0.0	0.0	0.0	-279.7
534	17599932.47	4860596.84	1.80	0	D	A	66.9	6.8	0.0	0.0	0.0	52.8	0.7	-0.2	0.0	0.0	0.0	0.0	0.0	20.5
534	17599932.47	4860596.84	1.80	0	N	A	-43.1	6.8	-188.0	0.0	0.0	52.8	0.7	-0.2	0.0	0.0	0.0	0.0	0.0	-277.5
534	17599932.47	4860596.84	1.80	0	E	A	-43.1	6.8	-188.0	0.0	0.0	52.8	0.7	-0.2	0.0	0.0	0.0	0.0	0.0	-277.5
535	17599930.13	4860599.20	1.80	0	D	A	66.9	2.7	0.0	0.0	0.0	52.9	0.7	-0.2	0.0	0.0	4.5	0.0	0.0	11.7
535	17599930.13	4860599.20	1.80	0	N	A	-43.1	2.7	-188.0	0.0	0.0	52.9	0.7	-0.2	0.0	0.0	4.5	0.0	0.0	-286.3
535	17599930.13	4860599.20	1.80	0	E	A	-43.1	2.7	-188.0	0.0	0.0	52.9	0.7	-0.2	0.0	0.0	4.5	0.0	0.0	-286.3
537	17599934.75	4860594.55	1.80	1	D	A	66.9	4.3	0.0	0.0	0.0	54.7	0.8	-1.8	0.0	0.0	0.0	0.0	2.7	14.8
537	17599934.75	4860594.55	1.80	1	N	A	-43.1	4.3	-188.0	0.0	0.0	54.7	0.8	-1.8	0.0	0.0	0.0	0.0	2.7	-283.2
537	17599934.75	4860594.55	1.80	1	E	A	-43.1	4.3	-188.0	0.0	0.0	54.7	0.8	-1.8	0.0	0.0	0.0	0.0	2.7	-283.2
539	17599932.32	4860596.99	1.80	1	D	A	66.9	6.2	0.0	0.0	0.0	54.8	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	16.7
539	17599932.32	4860596.99	1.80	1	N	A	-43.1	6.2	-188.0	0.0	0.0	54.8	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	-281.3
539	17599932.32	4860596.99	1.80	1	E	A	-43.1	6.2	-188.0	0.0	0.0	54.8	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	-281.3
541	17599930.16	4860599.17	1.80	1	D	A	66.9	2.9	0.0	0.0	0.0	54.9	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	13.3
541	17599930.16	4860599.17	1.80	1	N	A	-43.1	2.9	-188.0	0.0	0.0	54.9	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	-284.7
541	17599930.16	4860599.17	1.80	1	E	A	-43.1	2.9	-188.0	0.0	0.0	54.9	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	-284.7
544	17599925.88	4860603.08	1.80	0	D	A	66.9	9.8	0.0	0.0	0.0	53.1	0.7	-0.1	0.0	0.0	6.5	0.0	0.0	16.6
544	17599925.88	4860603.08	1.80	0	N	A	-43.1	9.8	-188.0	0.0	0.0	53.1	0.7	-0.1	0.0	0.0	6.5	0.0	0.0	-281.4
544	17599925.88	4860603.08	1.80	0	E	A	-43.1	9.8	-188.0	0.0	0.0	53.1	0.7	-0.1	0.0	0.0	6.5	0.0	0.0	-281.4

Line Source, ISO 9613, Name: "Medium Truck Movements", ID: "MdTrk_Mvt01"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB/A)						
546	17599928.31	4860600.90	1.80	1	D	A	66.9	4.9	0.0	0.0	0.0	54.9	0.8	-1.7	0.0	0.0	0.0	0.0	2.7	15.2
546	17599928.31	4860600.90	1.80	1	N	A	-43.1	4.9	-188.0	0.0	0.0	54.9	0.8	-1.7	0.0	0.0	0.0	0.0	2.7	-282.8
546	17599928.31	4860600.90	1.80	1	E	A	-43.1	4.9	-188.0	0.0	0.0	54.9	0.8	-1.7	0.0	0.0	0.0	0.0	2.7	-282.8
547	17599926.77	4860602.28	1.80	1	D	A	66.9	0.0	0.0	0.0	0.0	54.9	0.8	-1.8	0.0	0.0	0.0	0.0	2.7	10.2
547	17599926.77	4860602.28	1.80	1	N	A	-43.1	0.0	-188.0	0.0	0.0	54.9	0.8	-1.8	0.0	0.0	0.0	0.0	2.7	-287.8
547	17599926.77	4860602.28	1.80	1	E	A	-43.1	0.0	-188.0	0.0	0.0	54.9	0.8	-1.8	0.0	0.0	0.0	0.0	2.7	-287.8
548	17599925.06	4860603.81	1.80	1	D	A	66.9	5.5	0.0	0.0	0.0	55.0	0.8	-1.8	0.0	0.0	0.0	0.0	2.7	15.7
548	17599925.06	4860603.81	1.80	1	N	A	-43.1	5.5	-188.0	0.0	0.0	55.0	0.8	-1.8	0.0	0.0	0.0	0.0	2.7	-282.3
548	17599925.06	4860603.81	1.80	1	E	A	-43.1	5.5	-188.0	0.0	0.0	55.0	0.8	-1.8	0.0	0.0	0.0	0.0	2.7	-282.3
550	17599923.21	4860605.47	1.80	1	D	A	66.9	1.5	0.0	0.0	0.0	55.0	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	11.7
550	17599923.21	4860605.47	1.80	1	N	A	-43.1	1.5	-188.0	0.0	0.0	55.0	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	-286.3
550	17599923.21	4860605.47	1.80	1	E	A	-43.1	1.5	-188.0	0.0	0.0	55.0	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	-286.3
552	17599922.48	4860606.12	1.80	1	D	A	66.9	-2.7	0.0	0.0	0.0	55.0	0.8	-1.7	0.0	0.0	0.0	0.0	2.7	7.4
552	17599922.48	4860606.12	1.80	1	N	A	-43.1	-2.7	-188.0	0.0	0.0	55.0	0.8	-1.7	0.0	0.0	0.0	0.0	2.7	-290.6
552	17599922.48	4860606.12	1.80	1	E	A	-43.1	-2.7	-188.0	0.0	0.0	55.0	0.8	-1.7	0.0	0.0	0.0	0.0	2.7	-290.6
554	17599966.20	4860564.79	1.80	0	D	A	66.9	6.3	0.0	0.0	0.0	52.0	0.6	-0.7	0.0	0.0	0.0	0.0	0.0	21.3
554	17599966.20	4860564.79	1.80	0	N	A	-43.1	6.3	-188.0	0.0	0.0	52.0	0.6	-0.7	0.0	0.0	0.0	0.0	0.0	-276.7
554	17599966.20	4860564.79	1.80	0	E	A	-43.1	6.3	-188.0	0.0	0.0	52.0	0.6	-0.7	0.0	0.0	0.0	0.0	0.0	-276.7
556	17599969.20	4860562.45	1.80	0	D	A	66.9	5.2	0.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	19.8
556	17599969.20	4860562.45	1.80	0	N	A	-43.1	5.2	-188.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	-278.2
556	17599969.20	4860562.45	1.80	0	E	A	-43.1	5.2	-188.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	-278.2
559	17599971.87	4860560.25	1.80	0	D	A	66.9	5.6	0.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	20.1
559	17599971.87	4860560.25	1.80	0	N	A	-43.1	5.6	-188.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	-277.9
559	17599971.87	4860560.25	1.80	0	E	A	-43.1	5.6	-188.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	-277.9
561	17599974.72	4860557.78	1.80	0	D	A	66.9	6.0	0.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	20.5
561	17599974.72	4860557.78	1.80	0	N	A	-43.1	6.0	-188.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	-277.5
561	17599974.72	4860557.78	1.80	0	E	A	-43.1	6.0	-188.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	-277.5
563	17599985.90	4860548.81	1.80	0	D	A	66.9	8.6	0.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	23.2
563	17599985.90	4860548.81	1.80	0	N	A	-43.1	8.6	-188.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	-274.8
563	17599985.90	4860548.81	1.80	0	E	A	-43.1	8.6	-188.0	0.0	0.0	52.0	0.6	-0.3	0.0	0.0	0.0	0.0	0.0	-274.8
565	17599985.12	4860549.19	1.80	1	D	A	66.9	4.6	0.0	0.0	0.0	52.6	0.7	-0.3	0.0	0.0	0.0	0.0	3.2	15.3
565	17599985.12	4860549.19	1.80	1	N	A	-43.1	4.6	-188.0	0.0	0.0	52.6	0.7	-0.3	0.0	0.0	0.0	0.0	3.2	-282.7
565	17599985.12	4860549.19	1.80	1	E	A	-43.1	4.6	-188.0	0.0	0.0	52.6	0.7	-0.3	0.0	0.0	0.0	0.0	3.2	-282.7
567	17599987.75	4860547.88	1.80	1	D	A	66.9	4.7	0.0	0.0	0.0	52.6	0.7	-0.2	0.0	0.0	0.0	0.0	2.8	15.7
567	17599987.75	4860547.88	1.80	1	N	A	-43.1	4.7	-188.0	0.0	0.0	52.6	0.7	-0.2	0.0	0.0	0.0	0.0	2.8	-282.3
567	17599987.75	4860547.88	1.80	1	E	A	-43.1	4.7	-188.0	0.0	0.0	52.6	0.7	-0.2	0.0	0.0	0.0	0.0	2.8	-282.3
568	17599989.12	4860547.19	1.80	1	D	A	66.9	-9.5	0.0	0.0	0.0	52.6	0.7	-0.3	0.0	0.0	0.0	0.0	2.8	1.6
568	17599989.12	4860547.19	1.80	1	N	A	-43.1	-9.5	-188.0	0.0	0.0	52.6	0.7	-0.3	0.0	0.0	0.0	0.0	2.8	-296.4
568	17599989.12	4860547.19	1.80	1	E	A	-43.1	-9.5	-188.0	0.0	0.0	52.6	0.7	-0.3	0.0	0.0	0.0	0.0	2.8	-296.4
574	17599918.69	4860609.44	1.80	0	D	A	66.9	9.8	0.0	0.0	0.0	53.4	0.7	-0.1	0.0	0.0	9.4	0.0	0.0	13.2
574	17599918.69	4860609.44	1.80	0	N	A	-43.1	9.8	-188.0	0.0	0.0	53.4	0.7	-0.1	0.0	0.0	9.4	0.0	0.0	-284.8
574	17599918.69	4860609.44	1.80	0	E	A	-43.1	9.8	-188.0	0.0	0.0	53.4	0.7	-0.1	0.0	0.0	9.4	0.0	0.0	-284.8
577	17599920.69	4860607.69	1.80	1	D	A	66.9	6.2	0.0	0.0	0.0	55.1	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	16.4
577	17599920.69	4860607.69	1.80	1	N	A	-43.1	6.2	-188.0	0.0	0.0	55.1	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	-281.6
577	17599920.69	4860607.69	1.80	1	E	A	-43.1	6.2	-188.0	0.0	0.0	55.1	0.8	-1.9	0.0	0.0	0.0	0.0	2.7	-281.6
580	17599918.52	4860609.59	1.80	1	D	A	66.9	1.9	0.0	0.0	0.0	55.1	0.8	-1.9	0.0	0.0	15.5	0.0	4.3	-5.0
580	17599918.52	4860609.59	1.80	1	N	A	-43.1	1.9	-188.0	0.0	0.0	55.1	0.8	-1.9	0.0	0.0	15.5	0.0	4.3	-303.0
580	17599918.52	4860609.59	1.80	1	E	A	-43.1	1.9	-188.0	0.0	0.0	55.1	0.8	-1.9	0.0	0.0	15.5	0.0	4.3	-303.0
582	17599916.51	4860611.34	1.80	1	D	A	66.9	5.8	0.0	0.0	0.0	55.2	0.8	-1.8	0.0	0.0	15.8	0.0	4.5	-1.8
582	17599916.51	4860611.34	1.80	1	N	A	-43.1	5.8	-188.0	0.0	0.0	55.2	0.8	-1.8	0.0	0.0	15.8	0.0	4.5	-299.8
582	17599916.51	4860611.34	1.80	1	E	A	-43.1	5.8	-188.0	0.0	0.0	55.2	0.8	-1.8	0.0	0.0	15.8	0.0	4.5	-299.8
586	17599937.97	4860589.77	1.80	0	D	A	66.9	8.9	0.0	0.0	0.0	52.7	0.7	-0.3	0.0	0.0	0.0	0.0	0.0	22.8
586	17599937.97	4860589.77	1.80	0	N	A	-43.1	8.9	-188.0	0.0	0.0	52.7	0.7	-0.3	0.0	0.0	0.0	0.0	0.0	-275.2
586	17599937.97	4860589.77	1.80	0	E	A	-43.1	8.9	-188.0	0.0	0.0	52.7	0.7	-0.3	0.0	0.0	0.0	0.0	0.0	-275.2
589	17599910.14	4860600.61	1.80	0	D	A	66.9	9.6	0.0	0.0	0.0	54.1	0.8	-0.7	0.0	0.0	7.3	0.0	0.0	15.1
589	17599910.14	4860600.61	1.80	0	N	A	-43.1	9.6	-188.0	0.0	0.0	54.1	0.8	-0.7	0.0	0.0	7.3	0.0	0.0	-282.9
589	17599910.14	4860600.61	1.80	0	E	A	-43.1	9.6	-188.0	0.0	0.0	54.1	0.8	-0.7	0.0	0.0	7.3	0.0	0.0	-282.9
592	17599908.14	4860602.26	1.80	1	D	A	66.9	6.0	0.0	0.0	0.0	54.6	0.8	-1.1	0.0	0.0	20.5	0.0	3.0	-4.9
592	17599908.14	4860602.26	1.80	1	N	A	-43.1	6.0	-188.0	0.0	0.0	54.6	0.8	-1.1	0.0	0.0	20.5	0.0	3.0	-302.9
592	17599908.14	4860602.26	1.80	1	E	A	-43.1	6.0	-188.0	0.0	0.0	54.6	0.8	-1.1	0.0	0.0	20.5	0.0	3.0	-302.9
594	17599911.65	4860599.36	1.80	1	D	A	66.9	7.1	0.0	0.0	0.0	54.5	0.8	-1.1	0.0	0.0	20.4	0.0	3.0	-3.6
594	17599911.65	4860599.36	1.80	1	N	A	-43.1	7.1	-188.0	0.0	0.0	54.5	0.8	-1.1	0.0	0.0	20.4	0.0	3.0	-301.6
594	17599911.65	4860599.36	1.80	1	E	A	-43.1	7.1	-188.0	0.0	0.0	54.5	0.8	-1.1	0.0	0.0	20.4	0.0	3.0	-301.6

Line Source, ISO 9613, Name: "Medium Truck Movements", ID: "MdTrk_Mvt01"																				
Nr.	X	Y	Z	Ref.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)						
595	17599913.65	4860597.71	1.80	1	D	A	66.9	-13.0	0.0	0.0	0.0	54.4	0.8	-1.1	0.0	0.0	15.5	0.0	2.8	-18.4
595	17599913.65	4860597.71	1.80	1	N	A	-43.1	-13.0	-188.0	0.0	0.0	54.4	0.8	-1.1	0.0	0.0	15.5	0.0	2.8	-316.4
595	17599913.65	4860597.71	1.80	1	E	A	-43.1	-13.0	-188.0	0.0	0.0	54.4	0.8	-1.1	0.0	0.0	15.5	0.0	2.8	-316.4
598	17599908.19	4860520.71	1.80	0	D	A	66.9	11.7	0.0	0.0	0.0	56.3	0.9	-2.6	0.0	0.0	0.0	0.0	0.0	23.9
598	17599908.19	4860520.71	1.80	0	N	A	-43.1	11.7	-188.0	0.0	0.0	56.3	0.9	-2.6	0.0	0.0	0.0	0.0	0.0	-274.1
598	17599908.19	4860520.71	1.80	0	E	A	-43.1	11.7	-188.0	0.0	0.0	56.3	0.9	-2.6	0.0	0.0	0.0	0.0	0.0	-274.1
604	17599941.35	4860565.08	1.80	0	D	A	66.9	8.7	0.0	0.0	0.0	53.3	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	22.5
604	17599941.35	4860565.08	1.80	0	N	A	-43.1	8.7	-188.0	0.0	0.0	53.3	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	-275.5
604	17599941.35	4860565.08	1.80	0	E	A	-43.1	8.7	-188.0	0.0	0.0	53.3	0.7	-0.9	0.0	0.0	0.0	0.0	0.0	-275.5
608	17599939.91	4860562.41	1.80	1	D	A	66.9	1.3	0.0	0.0	0.0	60.8	1.4	-1.3	0.0	0.0	21.7	0.0	3.2	-17.6
608	17599939.91	4860562.41	1.80	1	N	A	-43.1	1.3	-188.0	0.0	0.0	60.8	1.4	-1.3	0.0	0.0	21.7	0.0	3.2	-315.6
608	17599939.91	4860562.41	1.80	1	E	A	-43.1	1.3	-188.0	0.0	0.0	60.8	1.4	-1.3	0.0	0.0	21.7	0.0	3.2	-315.6
613	17599943.77	4860571.44	1.80	0	D	A	66.9	8.0	0.0	0.0	0.0	53.0	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	21.9
613	17599943.77	4860571.44	1.80	0	N	A	-43.1	8.0	-188.0	0.0	0.0	53.0	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	-276.1
613	17599943.77	4860571.44	1.80	0	E	A	-43.1	8.0	-188.0	0.0	0.0	53.0	0.7	-0.6	0.0	0.0	0.0	0.0	0.0	-276.1
618	17599937.29	4860559.26	1.80	0	D	A	66.9	8.4	0.0	0.0	0.0	53.8	0.7	-1.4	0.0	0.0	0.0	0.0	0.0	22.2
618	17599937.29	4860559.26	1.80	0	N	A	-43.1	8.4	-188.0	0.0	0.0	53.8	0.7	-1.4	0.0	0.0	0.0	0.0	0.0	-275.8
618	17599937.29	4860559.26	1.80	0	E	A	-43.1	8.4	-188.0	0.0	0.0	53.8	0.7	-1.4	0.0	0.0	0.0	0.0	0.0	-275.8
630	17599913.15	4860613.65	1.80	0	D	A	66.9	6.5	0.0	0.0	0.0	53.7	0.7	-0.1	0.0	0.0	10.7	0.0	0.0	8.4
630	17599913.15	4860613.65	1.80	0	N	A	-43.1	6.5	-188.0	0.0	0.0	53.7	0.7	-0.1	0.0	0.0	10.7	0.0	0.0	-289.6
630	17599913.15	4860613.65	1.80	0	E	A	-43.1	6.5	-188.0	0.0	0.0	53.7	0.7	-0.1	0.0	0.0	10.7	0.0	0.0	-289.6
633	17599914.61	4860612.84	1.80	1	D	A	66.9	0.5	0.0	0.0	0.0	55.2	0.8	-1.8	0.0	0.0	16.1	0.0	4.7	-7.7
633	17599914.61	4860612.84	1.80	1	N	A	-43.1	0.5	-188.0	0.0	0.0	55.2	0.8	-1.8	0.0	0.0	16.1	0.0	4.7	-305.7
633	17599914.61	4860612.84	1.80	1	E	A	-43.1	0.5	-188.0	0.0	0.0	55.2	0.8	-1.8	0.0	0.0	16.1	0.0	4.7	-305.7
634	17599912.67	4860613.92	1.80	1	D	A	66.9	5.2	0.0	0.0	0.0	55.3	0.8	-1.8	0.0	0.0	16.3	0.0	4.9	-3.4
634	17599912.67	4860613.92	1.80	1	N	A	-43.1	5.2	-188.0	0.0	0.0	55.3	0.8	-1.8	0.0	0.0	16.3	0.0	4.9	-301.4
634	17599912.67	4860613.92	1.80	1	E	A	-43.1	5.2	-188.0	0.0	0.0	55.3	0.8	-1.8	0.0	0.0	16.3	0.0	4.9	-301.4
637	17599909.08	4860614.02	1.80	0	D	A	66.9	6.5	0.0	0.0	0.0	53.9	0.7	-0.3	0.0	0.0	10.9	0.0	0.0	8.1
637	17599909.08	4860614.02	1.80	0	N	A	-43.1	6.5	-188.0	0.0	0.0	53.9	0.7	-0.3	0.0	0.0	10.9	0.0	0.0	-289.9
637	17599909.08	4860614.02	1.80	0	E	A	-43.1	6.5	-188.0	0.0	0.0	53.9	0.7	-0.3	0.0	0.0	10.9	0.0	0.0	-289.9
640	17599910.31	4860614.43	1.80	1	D	A	66.9	2.8	0.0	0.0	0.0	55.2	0.8	-1.7	0.0	0.0	16.5	0.0	5.1	-6.2
640	17599910.31	4860614.43	1.80	1	N	A	-43.1	2.8	-188.0	0.0	0.0	55.2	0.8	-1.7	0.0	0.0	16.5	0.0	5.1	-304.2
640	17599910.31	4860614.43	1.80	1	E	A	-43.1	2.8	-188.0	0.0	0.0	55.2	0.8	-1.7	0.0	0.0	16.5	0.0	5.1	-304.2
643	17599908.85	4860613.94	1.80	1	D	A	66.9	0.7	0.0	0.0	0.0	55.2	0.8	-1.6	0.0	0.0	16.6	0.0	5.1	-8.5
643	17599908.85	4860613.94	1.80	1	N	A	-43.1	0.7	-188.0	0.0	0.0	55.2	0.8	-1.6	0.0	0.0	16.6	0.0	5.1	-306.5
643	17599908.85	4860613.94	1.80	1	E	A	-43.1	0.7	-188.0	0.0	0.0	55.2	0.8	-1.6	0.0	0.0	16.6	0.0	5.1	-306.5
645	17599905.65	4860611.68	1.80	0	D	A	66.9	6.2	0.0	0.0	0.0	54.2	0.8	-0.5	0.0	0.0	10.6	0.0	0.0	8.1
645	17599905.65	4860611.68	1.80	0	N	A	-43.1	6.2	-188.0	0.0	0.0	54.2	0.8	-0.5	0.0	0.0	10.6	0.0	0.0	-289.9
645	17599905.65	4860611.68	1.80	0	E	A	-43.1	6.2	-188.0	0.0	0.0	54.2	0.8	-0.5	0.0	0.0	10.6	0.0	0.0	-289.9
648	17599904.57	4860608.08	1.80	0	D	A	66.9	6.0	0.0	0.0	0.0	54.3	0.8	-0.7	0.0	0.0	9.8	0.0	0.0	8.7
648	17599904.57	4860608.08	1.80	0	N	A	-43.1	6.0	-188.0	0.0	0.0	54.3	0.8	-0.7	0.0	0.0	9.8	0.0	0.0	-289.3
648	17599904.57	4860608.08	1.80	0	E	A	-43.1	6.0	-188.0	0.0	0.0	54.3	0.8	-0.7	0.0	0.0	9.8	0.0	0.0	-289.3
659	17599905.69	4860604.82	1.80	0	D	A	66.9	5.0	0.0	0.0	0.0	54.3	0.8	-0.7	0.0	0.0	8.9	0.0	0.0	8.7
659	17599905.69	4860604.82	1.80	0	N	A	-43.1	5.0	-188.0	0.0	0.0	54.3	0.8	-0.7	0.0	0.0	8.9	0.0	0.0	-289.3
659	17599905.69	4860604.82	1.80	0	E	A	-43.1	5.0	-188.0	0.0	0.0	54.3	0.8	-0.7	0.0	0.0	8.9	0.0	0.0	-289.3
661	17599906.21	4860604.10	1.80	1	D	A	66.9	1.5	0.0	0.0	0.0	54.6	0.8	-1.1	0.0	0.0	16.5	0.0	3.0	-5.5
661	17599906.21	4860604.10	1.80	1	N	A	-43.1	1.5	-188.0	0.0	0.0	54.6	0.8	-1.1	0.0	0.0	16.5	0.0	3.0	-303.5
661	17599906.21	4860604.10	1.80	1	E	A	-43.1	1.5	-188.0	0.0	0.0	54.6	0.8	-1.1	0.0	0.0	16.5	0.0	3.0	-303.5