



Technical Memorandum

To: Nathan Perez, City of Perris

From: Marc Mizuta, Mizuta Traffic Consulting

Date: August 25, 2023

Re: Trip Generation and VMT Screening Analysis for the Proposed Perris Mixed-Use Project

Mizuta Traffic Consulting (MTC) has prepared this memo summarizing the estimated trip generation for the project located on the vacant that is generally bounded by Ramona Expressway to the north, Dawes Street to the south, the Campers Resorts of America to the east, and the Park Place Mobile Home Park to the west in Perris, CA and determine if the project would result in any significant transportation impacts. Senate Bill 743 (SB 743) was approved in 2013 and changes the way transportation impacts are measured under the California Environmental Quality Act (CEQA). The Office of Planning and Research (OPR) has recommended the use of vehicle miles travelled (VMT) as the required metric to replace the automobile delay-based LOS. The VMT assessment is required to satisfy CEQA guidelines that utilizes VMT as the required metric to determine transportation impacts. The VMT assessment was based on the criteria outlined in the *City of Perris Transportation Impact Analysis Guidelines for CEQA, May 12, 2020 (City's TIA Guidelines)*.

PROJECT DESCRIPTION

The Project proposes to construct a 275,098 square foot (sf) general light industrial building, an 107-room hotel, and a total of 5,800 sf of sit-down restaurants. A total of 482 parking spaces will be provided on-site (241 spaces for the industrial use and 241 spaces for the hotel/retail uses). A preliminary site plan has been prepared and included as an attachment.

TRIP GENERATION

The trip generation rate for the Project was based on the rates for the various land uses contained in the *Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition*. Table I summarizes the proposed trip generation for the Project. It should be noted that the trips associated with the industrial use have been separated into passenger cars and trucks and converted to passenger car equivalents (PCE). Additionally, the truck percentage was based on the warehouse truck trip rate as a conservative estimate. A passby reduction factor was applied to the sit-down restaurant uses only.

As shown in the table, the Project is estimated to generate 2,817 daily trips (ADT) with 310 trips (239 inbound, 71 outbound) during the AM peak-hour and 296 trips (92 inbound, 204 outbound) in the PM peak-hour. After applying the passby trip reductions and the conversion of trucks to PCE's, the Project is estimated to generate a net of 3,386 ADT with 333 trips (263 inbound, 70 outbound) during the AM peak-hour and 318 trips (84 inbound, 234 outbound) during the PM peak-hour.



Table I: Project Trip Generation

TRIP GENERATION RATES ¹								
Land Use	ITE Code	Weekday Daily	AM PEAK			PM PEAK		
			Rate	In:Out Ratio		Rate	In:Out Ratio	
General Light Industrial	110	4.87 trips / ksf	0.74	0.88 : 0.12		0.65	0.14 : 0.86	
Hotel	310	7.99 trips / rm	0.46	0.56 : 0.44		0.59	0.51 : 0.49	
High-Turnover (Sit-Down) Restaurant	932	107.20 trips / ksf	9.57	0.55 : 0.45		9.05	0.61 : 0.39	
TRIP GENERATION CALCULATIONS								
Land Use	Amount	ADT	AM PEAK			PM PEAK		
			In	Out	Total	In	Out	Total
Hotel	85 rm	680	23	17	40	27	24	51
High-Turnover (Sit-Down) Restaurant	5.800 ksf	622	31	25	56	33	20	53
<i>Less Passby (25%-Daily @ AM, 43%-PM)²</i>		-268	-14	-156	-8	-6	-14	-15
General Light Industrial/Warehouse	275.098 ksf	1,340	180	24	204	26	153	179
Passenger Cars (64.9% Daily, 88.2% AM, 83.3% PM):		870	159	21	180	22	128	150
Trucks (35.1% Daily, 11.8% AM, 16.7% PM) ³ :		470	21	3	24	4	25	29
2-axle (16.7%, PCE = 1.5) ^{4,5} :		118	5	1	6	1	6	7
3-axle (20.7%, PCE = 2) ^{4,5} :		195	9	1	10	2	10	12
4+ axle (62.6%, PCE = 3) ^{4,5} :		882	39	6	45	8	47	55
<i>Subtotal (Trucks with PCE):</i>		1,195	53	8	61	11	63	74
Total Vehicle Trip Generated (Passenger Cars and Trucks)		2,817	239	71	310	92	204	296
Total Trip Generation (Passenger Cars and Trucks with PCE)		3,542	271	76	347	99	242	341
<i>Less Passby Trips</i>		-156	-8	-6	-14	-15	-8	-23
Net New Trips		3,386	263	70	333	84	234	318

Notes:

ksf: 1,000 square feet

1. The trip and passby rates for the project's land uses are based on the *Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition*.
2. The PM passby trip rate is based on the *Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition*. A conservative passby rate of 25% was assumed for the daily and AM peak-hour since there are no published rates for those time periods.
3. The truck trip rates for the project's land uses are based on the Warehousing land use contained in the *Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition*.
4. The recommended truck mix percentages are based on the *South Coast Air Quality Management District's (SCAQMD) Warehouse Truck Trip Study Data Results and Usage*.
5. The PCE factors are based on the *County of Riverside Transportation Analysis Guidelines, December 2020*.



VMT ASSESSMENT

According to the *City's TIA Guidelines*, there are five screening criteria that can be applied to effectively screen projects from VMT project-level assessments. The purpose is to screen out projects that are presumed to have a non-significant transportation impact based on facts of a project and to avoid unnecessary analysis and findings that would be inconsistent with the intent of SB 743. The following lists the various screening criteria:

1. Is the project 100% affordable housing?
2. Is the project within one half (1/2) mile of qualifying transit?
3. Is the project a local serving land use?
4. Is the project in a low VMT area?
5. Are the project's net daily trips less than 500 ADT?

If the project meets any of the screening criteria above, they are presumed to not have a significant impact and are screened out from completing additional VMT analysis.

VMT SCREENING ANALYSIS

Upon reviewing the screening criteria, the most appropriate and applicable criteria for the project was the project located within ½ mile of qualifying transit criteria. According to *City's TIA Guidelines*, projects located within ½ mile of an existing or major transit stop or an existing stop along a high-quality transit corridor may be presumed to have a less than significant impact absent substantial evidence to the contrary.

The City's Transit Priority Area (TPA) exhibit was referenced and it was determined that the Project is located within the TPA. Additionally, WRCOG VMT Screening Tool was used for the screening. The Project is located in TAZ 1819 and this is located inside a TPA.

As a result, the TPA screening threshold is met.

CONCLUSION

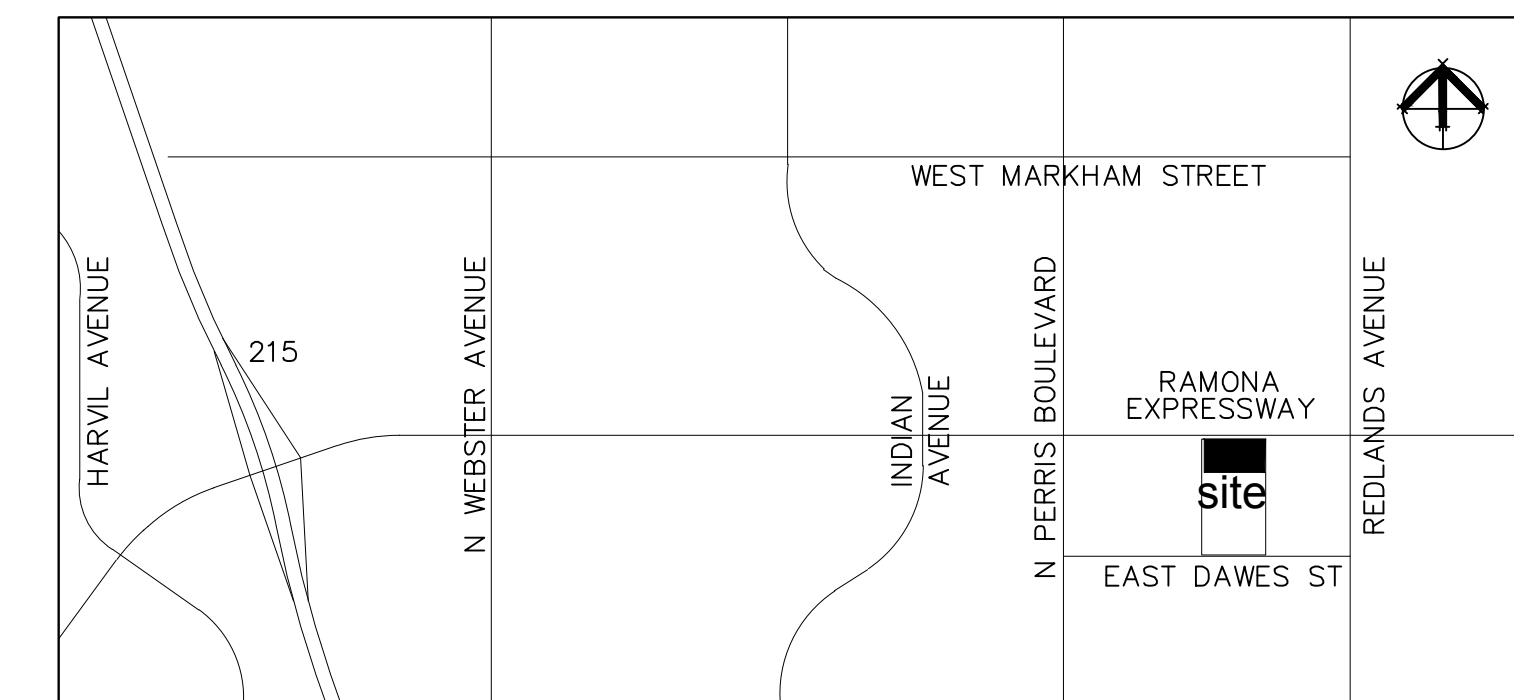
Based on the review of the applicable VMT screening thresholds, the Project satisfies the TPA screening and is presumed to result in a less than a significant VMT impact. As such, no additional VMT analysis is required or recommended.

ATTACHMENTS

- Site Plan
- TPA Map
- WRGOG Screening Tool Results
- VMT Scoping Form

RAMONA EXPRESSWAY

Vicinity Map



Project Summary

Site Area _____
 Zone - Commercial _____ 4.58 Acres

Perris Valley Commerce Center Specific Plan
 Planning Area 3
 Flight Corridor Buffer - Zone D

Building Summary

Building 1	4,000 sf
Building 2	5,000 sf
Building 3	52,008 sf
Total	61,008 sf

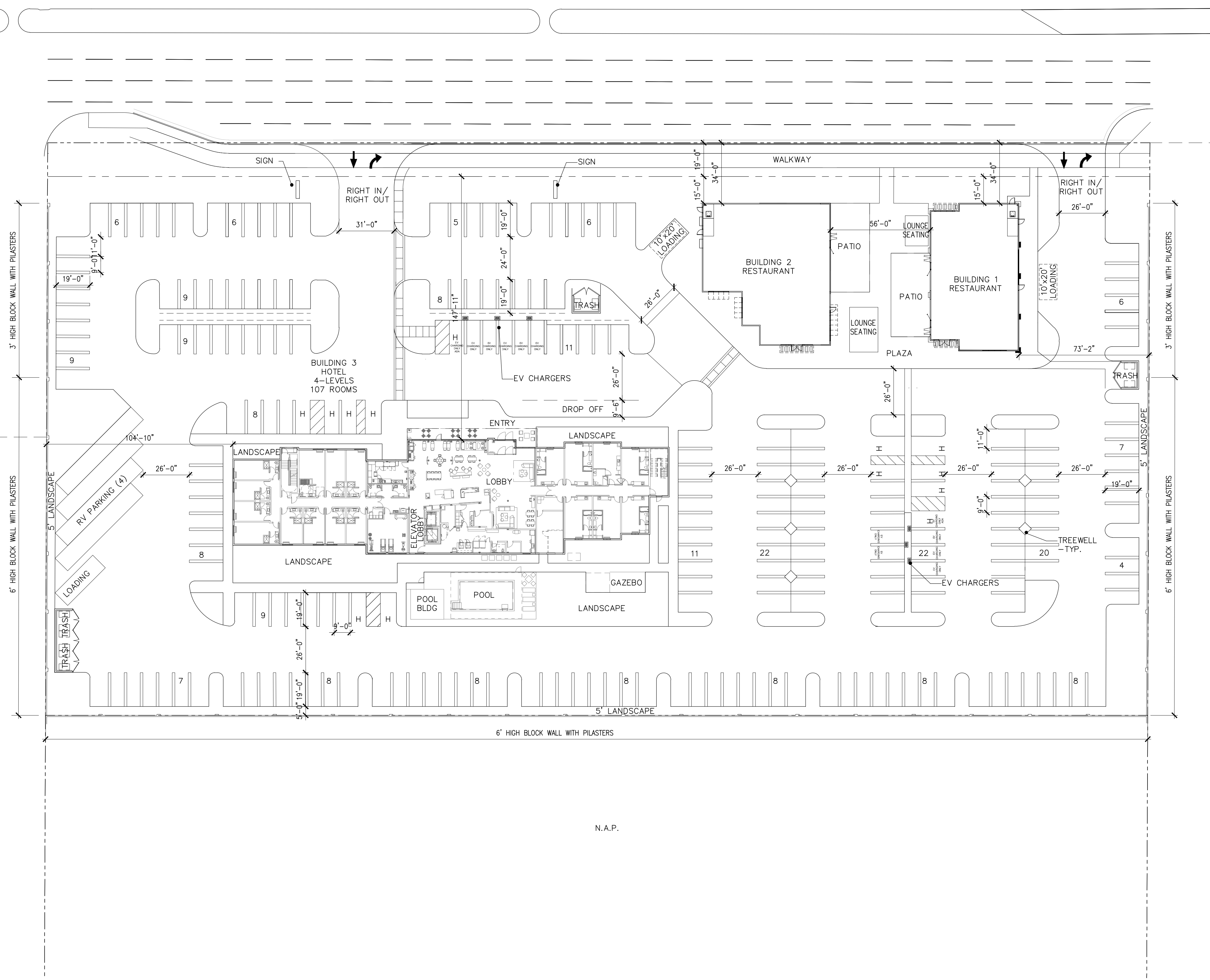
Parking Summary

Requirements:

Restaurant	1 space per 50 SF of dining area	
Hotel	1.1 space per guest room	
Building 1 (restaurant / 2,400 SF indoor dining)		48 spaces
Building 2 (restaurant / 3,400 SF indoor dining)		60 spaces
Hotel (107 rooms, 4-levels)		118 spaces
Required		226 spaces required
Provided		241 spaces provided

Owner
 Alabbasi Construction & Engineering
 764 Ramona Expressway, Suite C
 Perris, CA 92751

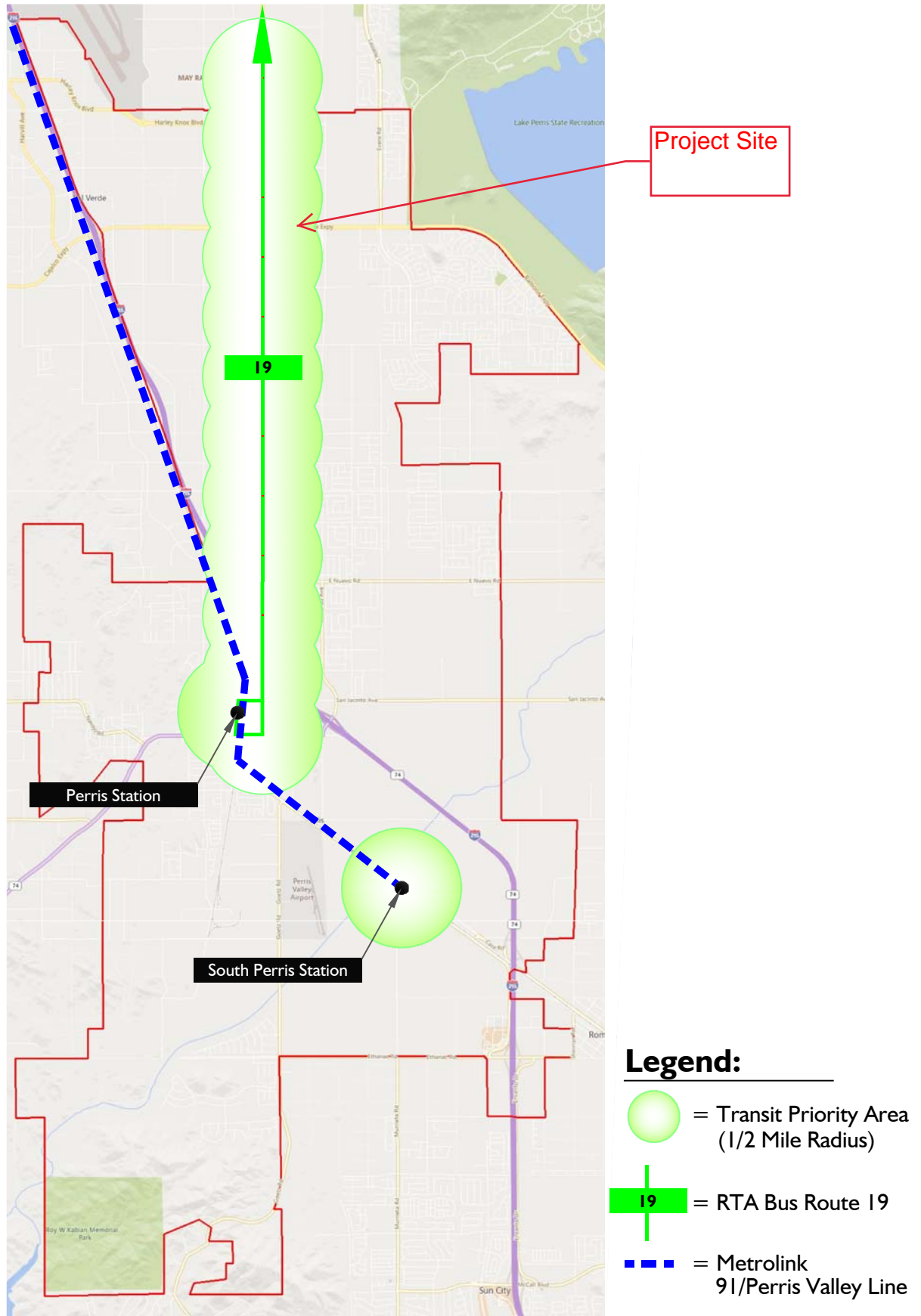
Architect
 SMS Architects
 100 Progress, Suite 250
 Irvine, CA 92618

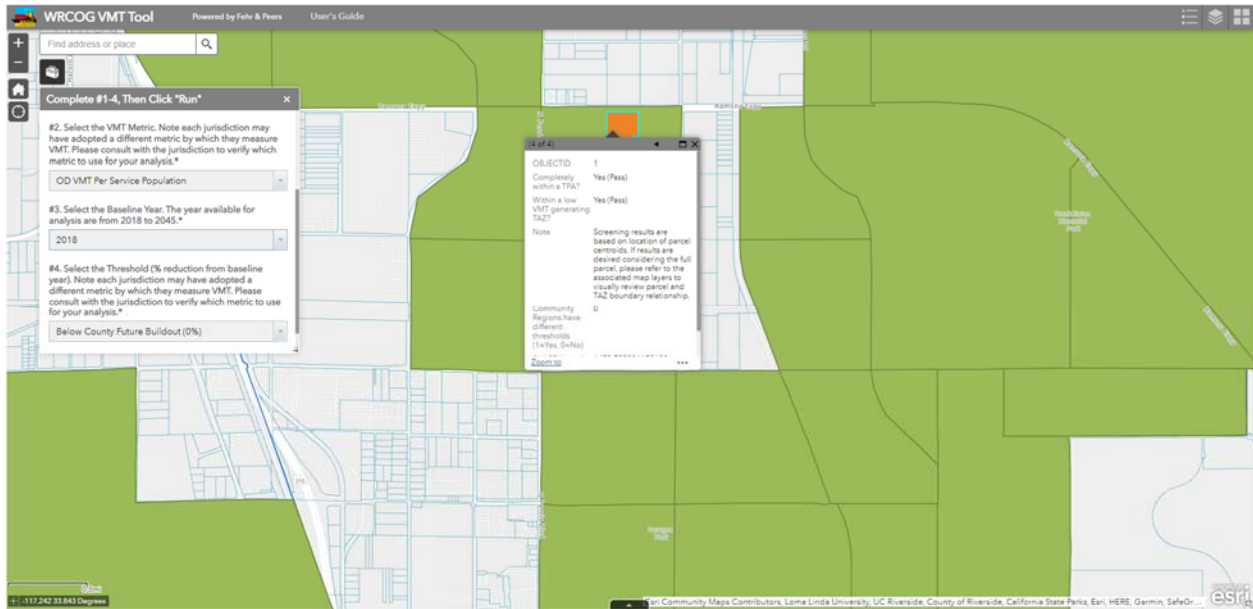


N.A.P.



Exhibit B Perris Transit Priority Areas





OBJECTID	1
Assessor Parcel Number (APN)	303100012
Traffic Analysis Zone (TAZ)	1819
Community Region	PERRIS
Inside a Transit Priority Area (TPA)	Yes
TAZ VMT	29.5
Jurisdiction VMT	33.6
% Difference	-12.18%
VMT Metric	OD VMT Per Service Population
Threshold	33.6
Community Regions have different thresholds (1=Yes, 0=No)	0
Note	Screening results are based on location of parcel centroids. If results are desired considering the full parcel, please refer to the associated map layers to visually review parcel and TAZ boundary relationship.
SHAPE_Length	876.6443815122328
SHAPE_Area	46792.316633625655

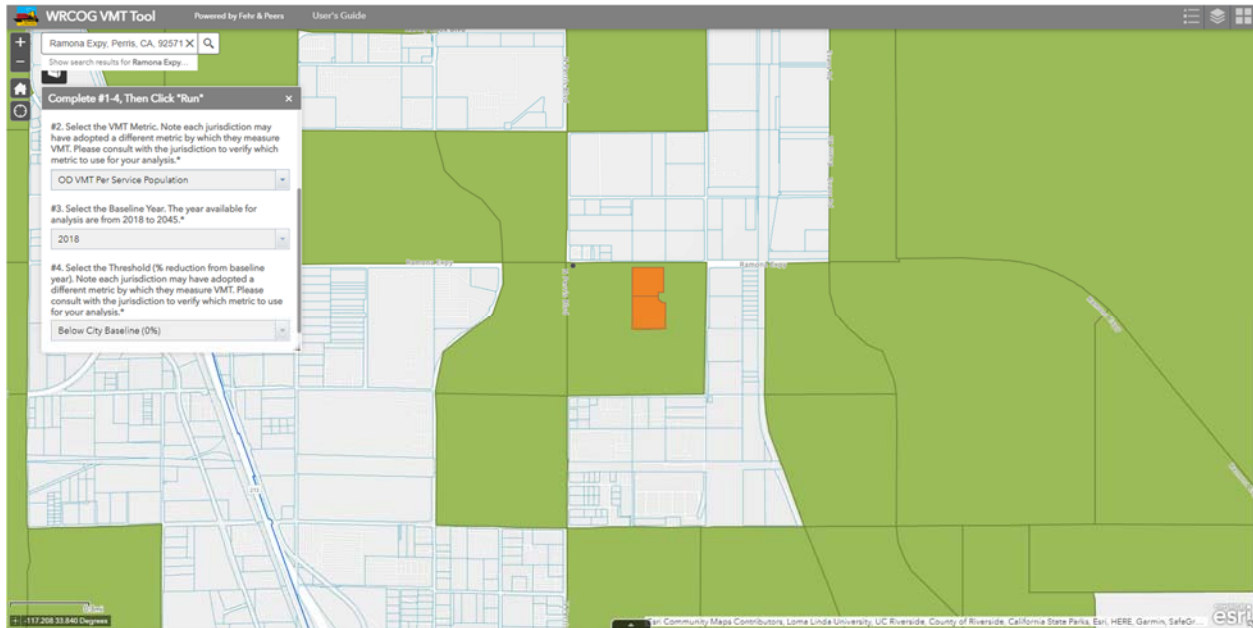
OBJECTID	686
TAZ	1819
VMT Metric	OD VMT Per Service Population
TAZ VMT	29.5089489

Community Region VMT	33.600665
Threshold	33.6
% Difference	-12.18%
Results	Yes (Pass)
Shape_Length	10863.110821473381
Shape_Area	7326017.406272597

OBJECTID	1
Completely within a TPA?	Yes (Pass)
Within a low VMT generating TAZ?	Yes (Pass)

Note
Screening results are based on location of parcel centroids. If results are desired considering the full parcel, please refer to the associated map layers to visually review parcel and TAZ boundary relationship.

Community Regions have different thresholds (1=Yes, 0=No)	0
SHAPE_Length	1452.792881153188
SHAPE_Area	103636.60588184946



OBJECTID	1
Completely within a TPA?	Yes (Pass)
Within a low VMT generating TAZ?	Yes (Pass)
Note	Screening results are based on location of parcel centroids. If results are desired considering the full parcel, please refer to the associated map layers to visually review parcel and TAZ boundary relationship.
Community Regions have different thresholds (1=Yes, 0=No)	0
SHAPE_Length	1453.4447644222014
SHAPE_Area	103673.38977313267
OBJECTID	2
Assessor Parcel Number (APN)	303100014
Traffic Analysis Zone (TAZ)	1819
Community Region	PERRIS
Inside a Transit Priority Area (TPA)	Yes
TAZ VMT	29.5
Jurisdiction VMT	32.4
% Difference	-8.88%
VMT Metric	OD VMT Per Service Population
Threshold	32.4
Community Regions have different thresholds (1=Yes, 0=No)	0

Note

Screening results are based on location of parcel centroids. If results are desired considering the full parcel, please refer to the associated map layers to visually review parcel and TAZ boundary relationship.

SHAPE_Length

957.2008671900535

SHAPE_Area

56966.71257485853



**CITY OF PERRIS
VMT SCOPING FORM FOR LAND USE PROJECTS**

This Scoping Form acknowledges the City of Perris requirements for the evaluation of transportation impacts under CEQA. The analysis provided in this form should follow the City of Perris TIA Guidelines, dated May 12, 2020.

I. Project Description

Tract/Case No.

Project Name:

Project Location:

Project Description:
(Please attach a copy of the project Site Plan)

Current GP Land Use:

Proposed GP Land Use:

Current Zoning:

Proposed Zoning:

If a project requires a General Plan Amendment or Zone change, then additional information and analysis should be provided to ensure the project is consistent with RHNA and RTP/SCS Strategies.

II. VMT Screening Criteria

- A. Is the Project 100% affordable housing?

YES		NO	x
-----	--	----	---

 Attachments:
- B. Is the Project within 1/2 mile of qualifying transit?

YES	x	NO	
-----	---	----	--

 Attachments:
- C. Is the Project a local serving land use?

YES		NO	x
-----	--	----	---

 Attachments:
- D. Is the Project in a low VMT area?

YES		NO	x
-----	--	----	---

 Attachments:
- E. Are the Project's Net Daily Trips less than 500 ADT?

YES		NO	x
-----	--	----	---

 Attachments:

Low VMT Area Evaluation:

Citywide VMT Averages ¹		
Citywide Home-Based VMT =	15.05	VMT/Capita
Citywide Employment-Based VMT =	11.62	VMT/Employee

[WRCOG VMT MAP](#)

Project TAZ	VMT Rate for Project TAZ ¹		Type of Project	
1819	29.5	VMT/Capita	Residential:	
	17.1	VMT/Employee	Non-Residential:	x

¹ Base year (2012) projections from RIVTAM.

Trip Generation Evaluation:

Source of Trip Generation:

Project Trip Generation: Average Daily Trips (ADT)

Internal Trip Credit:	YES	<input type="text"/>	NO	<input type="text" value="x"/>	% Trip Credit:	<input type="text"/>
Pass-By Trip Credit:	YES	<input type="text" value="x"/>	NO	<input type="text"/>	% Trip Credit:	<input type="text" value="25/43"/>
Affordable Housing Credit:	YES	<input type="text"/>	NO	<input type="text" value="x"/>	% Trip Credit:	<input type="text"/>
Existing Land Use Trip Credit:	YES	<input type="text"/>	NO	<input type="text" value="x"/>	Trip Credit:	<input type="text"/>

Net Project Daily Trips: Average Daily Trips (ADT) Attachments:

Does project trip generation warrant an LOS evaluation outside of CEQA?

YES	x	NO	
-----	---	----	--

III. VMT Screening Summary

A. Is the Project presumed to have a less than significant impact on VMT?

A Project is presumed to have a less than significant impact on VMT if the Project satisfies at least one (1) of the VMT screening criteria.

Less Than Significant

B. Is mitigation required?

If the Project does not satisfy at least one (1) of the VMT screening criteria, then mitigation is required to reduce the Project's impact on VMT.

No Mitigation Required

C. Is additional VMT modeling required to evaluate Project impacts?

YES		NO	x
-----	--	----	---

If the Project requires a zone change and/or General Plan Amendment AND generates 2,500 or more net daily trips, then additional VMT modeling using RIVTAM/RIVCOM is required. If the project generates less than 2,500 net daily trips, the Project TAZ VMT Rate can be used for mitigation purposes.

IV. MITIGATION

A. Citywide Average VMT Rate (Threshold of Significance) for Mitigation Purposes:

n/a	n/a
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B. Unmitigated Project TAZ VMT Rate:

n/a	n/a
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C. Percentage Reduction Required to Achieve the Citywide Average VMT:

n/a

D. VMT Reduction Mitigation Measures:

Source of VMT Reduction Estimates: _____

Project Location Setting _____

	VMT Reduction Mitigation Measure:	Estimated VMT Reduction (%)
1.		0.00%
2.		0.00%
3.		0.00%
4.		0.00%
5.		0.00%
6.		0.00%
7.		0.00%
8.		0.00%
9.		0.00%
10.		0.00%
Total VMT Reduction (%)		0.00%

(Attach additional pages, if necessary, and a copy of all mitigation calculations.)

E. Mitigated Project TAZ VMT Rate:

n/a	n/a
-----	-----

F. Is the project presumed to have a less than significant impact with mitigation?

n/a

If the mitigated Project VMT rate is below the Citywide Average Rate, then the Project is presumed to have a less than significant impact with mitigation. If the answer is no, then additional VMT modeling may be required and a potentially significant and unavoidable impact may occur. All mitigation measures identified in Section IV.D. are subject to become Conditions of Approval of the project. Development review and processing fees should be submitted with, or prior to the submittal of this Form. The Planning Department staff will not process the Form prior to fees being paid to the City.

Prepared By		Developer/Applicant	
Company:	Mizuta Traffic Consulting	Company:	Alabbasi Construction & Engineering
Contact:	Marc Mizuta	Contact:	Corinne Mostad
Address:	5694 Mission Center Rd #602-121, San Diego, CA 92108	Address:	764 Ramony Expy, Suite C, Perris, CA 92571
Phone:	858-752-8212	Phone:	951-436-5155
Email:	mizutatraficconsulting@gmail.com	Email:	corinne@alabbasi.biz
Date:	8/24/23	Date:	8/24/23

Approved by:

Perris Development Services Dept.	Perris Public Works Dept.
Date	Date



**CITY OF PERRIS
VMT SCOPING FORM FOR LAND USE PROJECTS**

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II. VMT Screening Criteria

- A. Is the Project 100% affordable housing?

YES		NO	x
-----	--	----	---

 Attachments:
- B. Is the Project within 1/2 mile of qualifying transit?

YES	x	NO	
-----	---	----	--

 Attachments:
- C. Is the Project a local serving land use?

YES		NO	x
-----	--	----	---

 Attachments:
- D. Is the Project in a low VMT area?

YES		NO	x
-----	--	----	---

 Attachments:
- E. Are the Project's Net Daily Trips less than 500 ADT?

YES		NO	X
-----	--	----	---

 Attachments:

Low VMT Area Evaluation:

Citywide VMT Averages ¹		
Citywide Home-Based VMT =	15.05	VMT/Capita
Citywide Employment-Based VMT =	11.62	VMT/Employee

[WRCOG VMT MAP](#)

Project TAZ	VMT Rate for Project TAZ ¹		Type of Project	
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	17.1	VMT/Employee	Non-Residential:	x

¹ Base year (2012) projections from RIVTAM.

Trip Generation Evaluation:

Source of Trip Generation:

Project Trip Generation:

1,340	Average Daily Trips (ADT)
-------	---------------------------

Internal Trip Credit:	YES	<input type="text"/>	NO	<input checked="" type="checkbox"/>	% Trip Credit:	<input type="text"/>
Pass-By Trip Credit:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>	% Trip Credit:	<input type="text"/>
Affordable Housing Credit:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	% Trip Credit:	<input type="text"/>
Existing Land Use Trip Credit:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>	Trip Credit:	<input type="text"/>

Net Project Daily Trips:

1,340	Average Daily Trips (ADT)
-------	---------------------------

 Attachments:

Does project trip generation warrant an LOS evaluation outside of CEQA?

YES	x	NO	
-----	---	----	--

III. VMT Screening Summary

A. Is the Project presumed to have a less than significant impact on VMT?

A Project is presumed to have a less than significant impact on VMT if the Project satisfies at least one (1) of the VMT screening criteria.

Less Than Significant

B. Is mitigation required?

If the Project does not satisfy at least one (1) of the VMT screening criteria, then mitigation is required to reduce the Project's impact on VMT.

No Mitigation Required

C. Is additional VMT modeling required to evaluate Project impacts?

YES		NO	x
-----	--	----	---

If the Project requires a zone change and/or General Plan Amendment AND generates 2,500 or more net daily trips, then additional VMT modeling using RIVTAM/RIVCOM is required. If the project generates less than 2,500 net daily trips, the Project TAZ VMT Rate can be used for mitigation purposes.

IV. MITIGATION

A. Citywide Average VMT Rate (Threshold of Significance) for Mitigation Purposes:

n/a	n/a
-----	-----

B. Unmitigated Project TAZ VMT Rate:

n/a	n/a
-----	-----

C. Percentage Reduction Required to Achieve the Citywide Average VMT:

n/a

D. VMT Reduction Mitigation Measures:

Source of VMT Reduction Estimates: _____

Project Location Setting _____

	VMT Reduction Mitigation Measure:	Estimated VMT Reduction (%)
1.		0.00%
2.		0.00%
3.		0.00%
4.		0.00%
5.		0.00%
6.		0.00%
7.		0.00%
8.		0.00%
9.		0.00%
10.		0.00%
Total VMT Reduction (%)		0.00%

(Attach additional pages, if necessary, and a copy of all mitigation calculations.)

E. Mitigated Project TAZ VMT Rate:

n/a	n/a
-----	-----

F. Is the project presumed to have a less than significant impact with mitigation?

n/a

If the mitigated Project VMT rate is below the Citywide Average Rate, then the Project is presumed to have a less than significant impact with mitigation. If the answer is no, then additional VMT modeling may be required and a potentially significant and unavoidable impact may occur. All mitigation measures identified in Section IV.D. are subject to become Conditions of Approval of the project. Development review and processing fees should be submitted with, or prior to the submittal of this Form. The Planning Department staff will not process the Form prior to fees being paid to the City.

Prepared By		Developer/Applicant	
Company:	Mizuta Traffic Consulting	Company:	Alabbasi Construction & Engineering
Contact:	Marc Mizuta	Contact:	Corinne Mostad
Address:	5694 Mission Center Rd #602-121, San Diego, CA 92108	Address:	764 Ramony Expy, Suite C, Perris, CA 92571
Phone:	858-752-8212	Phone:	951-436-5155
Email:	mizutatraficconsulting@gmail.com	Email:	corinne@alabbasi.biz
Date:	8/24/23	Date:	8/24/23

Approved by:

Perris Development Services Dept.	Perris Public Works Dept.
Date	Date