Organic Liberty Lompoc LLC Industrial Cannabis Project

Initial Study – Mitigated Negative Declaration

Appendices

prepared by

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April 2021

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Appendix A

Air Quality and Greenhouse Gas Modeling

Organic Liberty Lompoc LLC Commercial Cannabis Project

South Central Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	91.00	1000sqft	2.09	91,000.00	0
Parking Lot	97.00	Space	0.87	38,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.9	**Precipitation Freq (Days)**	37
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	311.54	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E 2030 energy intensity factors.

Land Use -

Construction Phase - Phase estimates provided by applicant. Grading phase was combined with site prep phase. Site is flat and minimum grading is expected.

Off-road Equipment -

Off-road Equipment - Construction equipment specified by applicant.

Off-road Equipment - No demolition phase.

Off-road Equipment - Construction equipment specified by applicant.

Off-road Equipment - Construction equipment specified by applicant.

Off-road Equipment - Construction equipment specified by applicant.

Trips and VMT -

Grading - No material imported or exported.

Vehicle Trips - Per project-specific VMT analysis.

Vehicle Emission Factors -

Energy Use - Energy intensity factors were adjusted to match the applicant provided kWH/yr output

Water And Wastewater - Project applicant specified 3,500 gallons of water used per day which equates to 1,277,500 gallons per year.

Solid Waste - Assuming the project would produce 500 pounds of solid waste per day, 4289 tons per year. (U.S. News & World Report. Cannabis May Hinder California's Environmental Goals 2019)

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps - Applicant specified 800 kW generator (1,072.82 HP). Assuming 50 hours of operation for testing per year

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	3.00	20.00
tblConstructionPhase	NumDays	220.00	162.00

Organic Liberty Lompoc LLC Commercial Cannabis Project - South Central Coast Air Basin, Winter

tblEnergyUse	T24E	1.48	27.00
tblEnergyUse	T24NG	19.71	100.00
tblGrading	AcresOfGrading	30.00	0.00
tblOffRoadEquipment	HorsePower	158.00	43.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	247.00	80.00
tblOffRoadEquipment	HorsePower	65.00	62.00
tblOffRoadEquipment	HorsePower	97.00	231.00
tblOffRoadEquipment	HorsePower	63.00	25.00
tblOffRoadEquipment	HorsePower	63.00	49.00
tblOffRoadEquipment	HorsePower	63.00	16.00
tblOffRoadEquipment	HorsePower	231.00	165.00
tblOffRoadEquipment	HorsePower	89.00	74.00
tblOffRoadEquipment	HorsePower	247.00	44.00
tblOffRoadEquipment	HorsePower	158.00	43.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	311.54
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	112.84	47.13
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

tblVehicleTrips	CW_TL	9.50	6.60
tblVehicleTrips	CW_TL	9.50	6.60
tblVehicleTrips	WD_TR	6.97	1.70
tblWater	IndoorWaterUseRate	21,043,750.00	1,277,500.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.6391	27.3749	23.3759	0.0466	3.1589	1.0076	4.1665	1.6943	0.9270	2.6213	0.0000	4,514.8898	4,514.8898	1.4221	0.0000	4,550.4418
2022	214.8948	21.8141	23.0589	0.0425	0.5938	0.7843	1.3781	0.1607	0.7489	0.9096	0.0000	4,051.3041	4,051.3041	0.7557	0.0000	4,070.1969
Maximum	**214.8948**	**27.3749**	**23.3759**	**0.0466**	**3.1589**	**1.0076**	**4.1665**	**1.6943**	**0.9270**	**2.6213**	**0.0000**	**4,514.8898**	**4,514.8898**	**1.4221**	**0.0000**	**4,550.4418**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.6391	27.3749	23.3759	0.0466	1.5028	1.0076	2.5104	0.7840	0.9270	1.7110	0.0000	4,514.8898	4,514.8898	1.4221	0.0000	4,550.4418
2022	214.8948	21.8141	23.0589	0.0425	0.5938	0.7843	1.3781	0.1607	0.7489	0.9096	0.0000	4,051.3041	4,051.3041	0.7557	0.0000	4,070.1969
Maximum	**214.8948**	**27.3749**	**23.3759**	**0.0466**	**1.5028**	**1.0076**	**2.5104**	**0.7840**	**0.9270**	**1.7110**	**0.0000**	**4,514.8898**	**4,514.8898**	**1.4221**	**0.0000**	**4,550.4418**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**44.13**	**0.00**	**29.87**	**49.07**	**0.00**	**25.78**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.5481	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0411	0.0411	1.1000e-004		0.0439
Energy	0.2868	2.6073	2.1901	0.0156		0.1982	0.1982		0.1982	0.1982		3,128.7575	3,128.7575	0.0600	0.0574	3,147.3501
Mobile	0.2331	0.9355	2.6968	8.0400e-003	0.7674	7.5200e-003	0.7749	0.2052	7.0400e-003	0.2122		813.3313	813.3313	0.0358		814.2262
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**3.0680**	**3.5429**	**4.9062**	**0.0237**	**0.7674**	**0.2057**	**0.9731**	**0.2052**	**0.2053**	**0.4104**		**3,942.1299**	**3,942.1299**	**0.0959**	**0.0574**	**3,961.6202**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.5481	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0411	0.0411	1.1000e-004		0.0439
Energy	0.2868	2.6073	2.1901	0.0156		0.1982	0.1982		0.1982	0.1982		3,128.7575	3,128.7575	0.0600	0.0574	3,147.3501
Mobile	0.2331	0.9355	2.6968	8.0400e-003	0.7674	7.5200e-003	0.7749	0.2052	7.0400e-003	0.2122		813.3313	813.3313	0.0358		814.2262
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**3.0680**	**3.5429**	**4.9062**	**0.0237**	**0.7674**	**0.2057**	**0.9731**	**0.2052**	**0.2053**	**0.4104**		**3,942.1299**	**3,942.1299**	**0.0959**	**0.0574**	**3,961.6202**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Organic Liberty Lompoc LLC Commercial Cannabis Project - South Central Coast Air Basin, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/9/2021	7/6/2021	5	20	
2	Building Construction	Building Construction	8/7/2021	3/22/2022	5	162	
3	Paving	Paving	3/23/2022	4/5/2022	5	10	
4	Architectural Coating	Architectural Coating	3/23/2022	4/5/2022	5	10	
5	Trenching	Trenching	4/6/2022	4/19/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.87

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 136,500; Non-Residential Outdoor: 45,500; Striped Parking Area: 2,328 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	1	8.00	43	0.38
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Off-Highway Trucks	1	8.00	385	0.38
Site Preparation	Rubber Tired Dozers	1	4.00	80	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	62	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	231	0.37
Building Construction	Aerial Lifts	2	8.00	25	0.31
Building Construction	Aerial Lifts	4	8.00	49	0.31
Building Construction	Aerial Lifts	6	8.00	16	0.31
Building Construction	Cranes	1	8.00	165	0.29
Building Construction	Forklifts	2	8.00	74	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Rubber Tired Dozers	1	8.00	44	0.40
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Trenching	Excavators	2	8.00	43	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	20	55.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	2.5125	27.3261	16.6231	0.0453		1.0066	1.0066		0.9261	0.9261		4,385.7729	4,385.7729	1.4185		4,421.2341
Total	**2.5125**	**27.3261**	**16.6231**	**0.0453**	**3.0110**	**1.0066**	**4.0177**	**1.6551**	**0.9261**	**2.5812**		**4,385.7729**	**4,385.7729**	**1.4185**		**4,421.2341**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0717	0.0488	0.4690	1.3000e-003	0.1479	9.7000e-004	0.1488	0.0392	8.9000e-004	0.0401		129.1170	129.1170	3.6300e-003		129.2078
Total	**0.0717**	**0.0488**	**0.4690**	**1.3000e-003**	**0.1479**	**9.7000e-004**	**0.1488**	**0.0392**	**8.9000e-004**	**0.0401**		**129.1170**	**129.1170**	**3.6300e-003**		**129.2078**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3550	0.0000	1.3550	0.7448	0.0000	0.7448			0.0000			0.0000
Off-Road	2.5125	27.3261	16.6231	0.0453		1.0066	1.0066		0.9261	0.9261	0.0000	4,385.7729	4,385.7729	1.4185		4,421.2341
Total	**2.5125**	**27.3261**	**16.6231**	**0.0453**	**1.3550**	**1.0066**	**2.3616**	**0.7448**	**0.9261**	**1.6709**	**0.0000**	**4,385.7729**	**4,385.7729**	**1.4185**		**4,421.2341**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0717	0.0488	0.4690	1.3000e-003	0.1479	9.7000e-004	0.1488	0.0392	8.9000e-004	0.0401		129.1170	129.1170	3.6300e-003		129.2078
Total	**0.0717**	**0.0488**	**0.4690**	**1.3000e-003**	**0.1479**	**9.7000e-004**	**0.1488**	**0.0392**	**8.9000e-004**	**0.0401**		**129.1170**	**129.1170**	**3.6300e-003**		**129.2078**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3498	20.8546	21.2683	0.0334		0.8929	0.8929		0.8527	0.8527		3,099.6119	3,099.6119	0.7125		3,117.4246
Total	**2.3498**	**20.8546**	**21.2683**	**0.0334**		**0.8929**	**0.8929**		**0.8527**	**0.8527**		**3,099.6119**	**3,099.6119**	**0.7125**		**3,117.4246**

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0702	2.1444	0.6746	5.3500e-003	0.1419	6.7300e-003	0.1487	0.0408	6.4400e-003	0.0473		576.1986	576.1986	0.0424		577.2586
Worker	0.2191	0.1490	1.4330	3.9600e-003	0.4518	2.9600e-003	0.4548	0.1198	2.7300e-003	0.1226		394.5240	394.5240	0.0111		394.8015
Total	**0.2893**	**2.2934**	**2.1076**	**9.3100e-003**	**0.5938**	**9.6900e-003**	**0.6035**	**0.1607**	**9.1700e-003**	**0.1699**		**970.7226**	**970.7226**	**0.0535**		**972.0601**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3498	20.8546	21.2683	0.0334		0.8929	0.8929		0.8527	0.8527	0.0000	3,099.6119	3,099.6119	0.7125		3,117.4246
Total	**2.3498**	**20.8546**	**21.2683**	**0.0334**		**0.8929**	**0.8929**		**0.8527**	**0.8527**	**0.0000**	**3,099.6119**	**3,099.6119**	**0.7125**		**3,117.4246**

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0702	2.1444	0.6746	5.3500e-003	0.1419	6.7300e-003	0.1487	0.0408	6.4400e-003	0.0473		576.1986	576.1986	0.0424		577.2586
Worker	0.2191	0.1490	1.4330	3.9600e-003	0.4518	2.9600e-003	0.4548	0.1198	2.7300e-003	0.1226		394.5240	394.5240	0.0111		394.8015
Total	**0.2893**	**2.2934**	**2.1076**	**9.3100e-003**	**0.5938**	**9.6900e-003**	**0.6035**	**0.1607**	**9.1700e-003**	**0.1699**		**970.7226**	**970.7226**	**0.0535**		**972.0601**

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1608	19.6595	21.1130	0.0334		0.7755	0.7755		0.7406	0.7406		3,099.9022	3,099.9022	0.7038		3,117.4982
Total	**2.1608**	**19.6595**	**21.1130**	**0.0334**		**0.7755**	**0.7755**		**0.7406**	**0.7406**		**3,099.9022**	**3,099.9022**	**0.7038**		**3,117.4982**

3.3 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0650	2.0206	0.6303	5.2900e-003	0.1420	5.8800e-003	0.1478	0.0409	5.6200e-003	0.0465		571.0853	571.0853	0.0419		572.1331
Worker	0.2061	0.1340	1.3156	3.8200e-003	0.4518	2.8800e-003	0.4547	0.1198	2.6600e-003	0.1225		380.3166	380.3166	9.9600e-003		380.5656
Total	**0.2711**	**2.1546**	**1.9459**	**9.1100e-003**	**0.5938**	**8.7600e-003**	**0.6025**	**0.1607**	**8.2800e-003**	**0.1690**		**951.4019**	**951.4019**	**0.0519**		**952.6987**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1608	19.6595	21.1130	0.0334		0.7755	0.7755		0.7406	0.7406	0.0000	3,099.9022	3,099.9022	0.7038		3,117.4982
Total	**2.1608**	**19.6595**	**21.1130**	**0.0334**		**0.7755**	**0.7755**		**0.7406**	**0.7406**	**0.0000**	**3,099.9022**	**3,099.9022**	**0.7038**		**3,117.4982**

3.3 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0650	2.0206	0.6303	5.2900e-003	0.1420	5.8800e-003	0.1478	0.0409	5.6200e-003	0.0465		571.0853	571.0853	0.0419		572.1331
Worker	0.2061	0.1340	1.3156	3.8200e-003	0.4518	2.8800e-003	0.4547	0.1198	2.6600e-003	0.1225		380.3166	380.3166	9.9600e-003		380.5656
Total	**0.2711**	**2.1546**	**1.9459**	**9.1100e-003**	**0.5938**	**8.7600e-003**	**0.6025**	**0.1607**	**8.2800e-003**	**0.1690**		**951.4019**	**951.4019**	**0.0519**		**952.6987**

3.4 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7749	7.6063	9.8366	0.0152		0.3884	0.3884		0.3585	0.3585		1,455.5854	1,455.5854	0.4597		1,467.0772
Paving	0.2279					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0028**	**7.6063**	**9.8366**	**0.0152**		**0.3884**	**0.3884**		**0.3585**	**0.3585**		**1,455.5854**	**1,455.5854**	**0.4597**		**1,467.0772**

3.4 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0562	0.0366	0.3588	1.0400e-003	0.1232	7.9000e-004	0.1240	0.0327	7.2000e-004	0.0334		103.7227	103.7227	2.7200e-003		103.7906
Total	**0.0562**	**0.0366**	**0.3588**	**1.0400e-003**	**0.1232**	**7.9000e-004**	**0.1240**	**0.0327**	**7.2000e-004**	**0.0334**		**103.7227**	**103.7227**	**2.7200e-003**		**103.7906**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7749	7.6063	9.8366	0.0152		0.3884	0.3884		0.3585	0.3585	0.0000	1,455.5854	1,455.5854	0.4597		1,467.0772
Paving	0.2279					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0028**	**7.6063**	**9.8366**	**0.0152**		**0.3884**	**0.3884**		**0.3585**	**0.3585**	**0.0000**	**1,455.5854**	**1,455.5854**	**0.4597**		**1,467.0772**

3.4 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0562	0.0366	0.3588	1.0400e-003	0.1232	7.9000e-004	0.1240	0.0327	7.2000e-004	0.0334		103.7227	103.7227	2.7200e-003		103.7906
Total	**0.0562**	**0.0366**	**0.3588**	**1.0400e-003**	**0.1232**	**7.9000e-004**	**0.1240**	**0.0327**	**7.2000e-004**	**0.0334**		**103.7227**	**103.7227**	**2.7200e-003**		**103.7906**

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	213.5901					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**213.7946**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.5 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0412	0.0268	0.2631	7.6000e-004	0.0904	5.8000e-004	0.0909	0.0240	5.3000e-004	0.0245		76.0633	76.0633	1.9900e-003		76.1131
Total	**0.0412**	**0.0268**	**0.2631**	**7.6000e-004**	**0.0904**	**5.8000e-004**	**0.0909**	**0.0240**	**5.3000e-004**	**0.0245**		**76.0633**	**76.0633**	**1.9900e-003**		**76.1131**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	213.5901					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**213.7946**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

3.5 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0412	0.0268	0.2631	7.6000e-004	0.0904	5.8000e-004	0.0909	0.0240	5.3000e-004	0.0245		76.0633	76.0633	1.9900e-003		76.1131
Total	**0.0412**	**0.0268**	**0.2631**	**7.6000e-004**	**0.0904**	**5.8000e-004**	**0.0909**	**0.0240**	**5.3000e-004**	**0.0245**		**76.0633**	**76.0633**	**1.9900e-003**		**76.1131**

3.6 Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2755	2.1328	2.4631	3.1300e-003		0.0920	0.0920		0.0847	0.0847		302.8552	302.8552	0.0980		305.3039
Total	**0.2755**	**2.1328**	**2.4631**	**3.1300e-003**		**0.0920**	**0.0920**		**0.0847**	**0.0847**		**302.8552**	**302.8552**	**0.0980**		**305.3039**

3.6 Trenching - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0187	0.0122	0.1196	3.5000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		34.5742	34.5742	9.1000e-004		34.5969
Total	**0.0187**	**0.0122**	**0.1196**	**3.5000e-004**	**0.0411**	**2.6000e-004**	**0.0413**	**0.0109**	**2.4000e-004**	**0.0111**		**34.5742**	**34.5742**	**9.1000e-004**		**34.5969**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2755	2.1328	2.4631	3.1300e-003		0.0920	0.0920		0.0847	0.0847	0.0000	302.8552	302.8552	0.0980		305.3039
Total	**0.2755**	**2.1328**	**2.4631**	**3.1300e-003**		**0.0920**	**0.0920**		**0.0847**	**0.0847**	**0.0000**	**302.8552**	**302.8552**	**0.0980**		**305.3039**

3.6 Trenching - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0187	0.0122	0.1196	3.5000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		34.5742	34.5742	9.1000e-004		34.5969
Total	**0.0187**	**0.0122**	**0.1196**	**3.5000e-004**	**0.0411**	**2.6000e-004**	**0.0413**	**0.0109**	**2.4000e-004**	**0.0111**		**34.5742**	**34.5742**	**9.1000e-004**		**34.5969**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2331	0.9355	2.6968	8.0400e-003	0.7674	7.5200e-003	0.7749	0.2052	7.0400e-003	0.2122		813.3313	813.3313	0.0358		814.2262
Unmitigated	0.2331	0.9355	2.6968	8.0400e-003	0.7674	7.5200e-003	0.7749	0.2052	7.0400e-003	0.2122		813.3313	813.3313	0.0358		814.2262

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	154.70	120.12	61.88	319,239	319,239
Parking Lot	0.00	0.00	0.00		
Total	154.70	120.12	61.88	319,239	319,239

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	6.60	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	6.60	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.578715	0.035276	0.195383	0.116292	0.021140	0.006161	0.017585	0.018715	0.001882	0.001409	0.004999	0.001105	0.001338
Parking Lot	0.578715	0.035276	0.195383	0.116292	0.021140	0.006161	0.017585	0.018715	0.001882	0.001409	0.004999	0.001105	0.001338

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2868	2.6073	2.1901	0.0156		0.1982	0.1982		0.1982	0.1982		3,128.7575	3,128.7575	0.0600	0.0574	3,147.3501
NaturalGas Unmitigated	0.2868	2.6073	2.1901	0.0156		0.1982	0.1982		0.1982	0.1982		3,128.7575	3,128.7575	0.0600	0.0574	3,147.3501

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	26594.4	0.2868	2.6073	2.1901	0.0156		0.1982	0.1982		0.1982	0.1982		3,128.7575	3,128.7575	0.0600	0.0574	3,147.3501
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2868**	**2.6073**	**2.1901**	**0.0156**		**0.1982**	**0.1982**		**0.1982**	**0.1982**		**3,128.7575**	**3,128.7575**	**0.0600**	**0.0574**	**3,147.3501**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	26.5944	0.2868	2.6073	2.1901	0.0156		0.1982	0.1982		0.1982	0.1982		3,128.7575	3,128.7575	0.0600	0.0574	3,147.3501
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.2868**	**2.6073**	**2.1901**	**0.0156**		**0.1982**	**0.1982**		**0.1982**	**0.1982**		**3,128.7575**	**3,128.7575**	**0.0600**	**0.0574**	**3,147.3501**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.5481	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0411	0.0411	1.1000e-004		0.0439
Unmitigated	2.5481	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0411	0.0411	1.1000e-004		0.0439

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5852					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7900e-003	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0411	0.0411	1.1000e-004		0.0439
Total	**2.5481**	**1.8000e-004**	**0.0192**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0411**	**0.0411**	**1.1000e-004**		**0.0439**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5852					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9611					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7900e-003	1.8000e-004	0.0192	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0411	0.0411	1.1000e-004		0.0439
Total	**2.5481**	**1.8000e-004**	**0.0192**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0411**	**0.0411**	**1.1000e-004**		**0.0439**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	1072.82	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

11.0 Vegetation

Organic Liberty Lompoc LLC Commercial Cannabis Project 2030 GHG

South Central Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	91.00	1000sqft	2.09	91,000.00	0
Parking Lot	97.00	Space	0.87	38,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.9	**Precipitation Freq (Days)**	37
Climate Zone	4			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	311.54	**CH4 Intensity (lb/MWhr)**	0.014	**N2O Intensity (lb/MWhr)**	0.003

1.3 User Entered Comments & Non-Default Data

Project Characteristics - PG&E 2030 energy intensity factors.

Land Use -

Construction Phase - Phase estimates provided by applicant. Grading phase was combined with site prep phase. Site is flat and minimum grading is expected.

Off-road Equipment -

Off-road Equipment - Construction equipment specified by applicant.

Off-road Equipment - No demolition phase.

Off-road Equipment - Construction equipment specified by applicant.

Off-road Equipment - Construction equipment specified by applicant.

Off-road Equipment - Construction equipment specified by applicant.

Trips and VMT -

Grading - No material imported or exported.

Vehicle Trips - Per project-specific VMT analysis.

Vehicle Emission Factors -

Energy Use - Energy intensity factors were adjusted to match the applicant provided kWH/yr output

Water And Wastewater - Project applicant specified 3,500 gallons of water used per day which equates to 1,277,500 gallons per year.

Solid Waste - Assuming the project would produce 500 pounds of solid waste per day, 4289 tons per year. (U.S. News & World Report. Cannabis May Hinder California's Environmental Goals 2019)

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps - Applicant specified 800 kW generator (1,072.82 HP). Assuming 50 hours of operation for testing per year

Stationary Sources - Process Boilers -

Stationary Sources - User Defined -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	3.00	20.00
tblConstructionPhase	NumDays	220.00	162.00

Organic Liberty Lompoc LLC Commercial Cannabis Project 2030 GHG - South Central Coast Air Basin, Annual

tblEnergyUse	T24E	1.48	27.00
tblEnergyUse	T24NG	19.71	100.00
tblGrading	AcresOfGrading	30.00	0.00
tblOffRoadEquipment	HorsePower	158.00	43.00
tblOffRoadEquipment	HorsePower	402.00	385.00
tblOffRoadEquipment	HorsePower	247.00	80.00
tblOffRoadEquipment	HorsePower	65.00	62.00
tblOffRoadEquipment	HorsePower	97.00	231.00
tblOffRoadEquipment	HorsePower	63.00	25.00
tblOffRoadEquipment	HorsePower	63.00	49.00
tblOffRoadEquipment	HorsePower	63.00	16.00
tblOffRoadEquipment	HorsePower	231.00	165.00
tblOffRoadEquipment	HorsePower	89.00	74.00
tblOffRoadEquipment	HorsePower	247.00	44.00
tblOffRoadEquipment	HorsePower	158.00	43.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	311.54
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	112.84	47.13
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

tblVehicleTrips	CW_TL	9.50	6.60
tblVehicleTrips	CW_TL	9.50	6.60
tblVehicleTrips	WD_TR	6.97	1.70
tblWater	IndoorWaterUseRate	21,043,750.00	1,277,500.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1630	1.4903	1.3954	2.7100e-003	0.0621	0.0575	0.1195	0.0252	0.0545	0.0797	0.0000	235.3217	235.3217	0.0493	0.0000	236.5549
2022	1.1445	0.6785	0.7301	1.3300e-003	0.0178	0.0252	0.0430	4.8200e-003	0.0240	0.0288	0.0000	115.2450	115.2450	0.0222	0.0000	115.7987
Maximum	**1.1445**	**1.4903**	**1.3954**	**2.7100e-003**	**0.0621**	**0.0575**	**0.1195**	**0.0252**	**0.0545**	**0.0797**	**0.0000**	**235.3217**	**235.3217**	**0.0493**	**0.0000**	**236.5549**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1630	1.4903	1.3954	2.7100e-003	0.0455	0.0575	0.1030	0.0161	0.0545	0.0706	0.0000	235.3215	235.3215	0.0493	0.0000	236.5546
2022	1.1445	0.6785	0.7301	1.3300e-003	0.0178	0.0252	0.0430	4.8200e-003	0.0240	0.0288	0.0000	115.2449	115.2449	0.0222	0.0000	115.7986
Maximum	**1.1445**	**1.4903**	**1.3954**	**2.7100e-003**	**0.0455**	**0.0575**	**0.1030**	**0.0161**	**0.0545**	**0.0706**	**0.0000**	**235.3215**	**235.3215**	**0.0493**	**0.0000**	**236.5546**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**20.73**	**0.00**	**10.19**	**30.30**	**0.00**	**8.40**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-6-2021	9-5-2021	0.5752	0.5752
2	9-6-2021	12-5-2021	0.8377	0.8377
3	12-6-2021	3-5-2022	0.7936	0.7936
4	3-6-2022	6-5-2022	1.2792	1.2792
		Highest	1.2792	1.2792

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4649	2.0000e-005	1.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3600e-003	3.3600e-003	1.0000e-005	0.0000	3.5800e-003
Energy	0.0523	0.4758	0.3997	2.8500e-003		0.0362	0.0362		0.0362	0.0362	0.0000	954.3107	954.3107	0.0295	0.0137	959.1311
Mobile	0.0223	0.0925	0.2508	1.0200e-003	0.1204	7.0000e-004	0.1211	0.0322	6.5000e-004	0.0329	0.0000	94.2875	94.2875	3.5400e-003	0.0000	94.3759
Stationary	0.0440	0.1967	0.1121	2.1000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	20.4107	20.4107	2.8600e-003	0.0000	20.4823
Waste						0.0000	0.0000		0.0000	0.0000	9.5670	0.0000	9.5670	0.5654	0.0000	23.7018
Water						0.0000	0.0000		0.0000	0.0000	0.4053	0.9768	1.3821	0.0417	9.9000e-004	2.7196
Total	**0.5835**	**0.7650**	**0.7644**	**4.0800e-003**	**0.1204**	**0.0433**	**0.1637**	**0.0322**	**0.0433**	**0.0755**	**9.9723**	**1,069.9891**	**1,079.9613**	**0.6430**	**0.0147**	**1,100.4142**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4649	2.0000e-005	1.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3600e-003	3.3600e-003	1.0000e-005	0.0000	3.5800e-003
Energy	0.0523	0.4758	0.3997	2.8500e-003		0.0362	0.0362		0.0362	0.0362	0.0000	954.3107	954.3107	0.0295	0.0137	959.1311
Mobile	0.0223	0.0925	0.2508	1.0200e-003	0.1204	7.0000e-004	0.1211	0.0322	6.5000e-004	0.0329	0.0000	94.2875	94.2875	3.5400e-003	0.0000	94.3759
Stationary	0.0440	0.1967	0.1121	2.1000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	20.4107	20.4107	2.8600e-003	0.0000	20.4823
Waste						0.0000	0.0000		0.0000	0.0000	9.5670	0.0000	9.5670	0.5654	0.0000	23.7018
Water						0.0000	0.0000		0.0000	0.0000	0.4053	0.9768	1.3821	0.0417	9.9000e-004	2.7196
Total	**0.5835**	**0.7650**	**0.7644**	**4.0800e-003**	**0.1204**	**0.0433**	**0.1637**	**0.0322**	**0.0433**	**0.0755**	**9.9723**	**1,069.9891**	**1,079.9613**	**0.6430**	**0.0147**	**1,100.4142**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/9/2021	7/6/2021	5	20	
2	Building Construction	Building Construction	8/7/2021	3/22/2022	5	162	
3	Paving	Paving	3/23/2022	4/5/2022	5	10	
4	Architectural Coating	Architectural Coating	3/23/2022	4/5/2022	5	10	
5	Trenching	Trenching	4/6/2022	4/19/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.87

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 136,500; Non-Residential Outdoor: 45,500; Striped Parking Area: 2,328 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	1	8.00	43	0.38
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Off-Highway Trucks	1	8.00	385	0.38
Site Preparation	Rubber Tired Dozers	1	4.00	80	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Skid Steer Loaders	1	8.00	62	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	231	0.37
Building Construction	Aerial Lifts	2	8.00	25	0.31
Building Construction	Aerial Lifts	4	8.00	49	0.31
Building Construction	Aerial Lifts	6	8.00	16	0.31
Building Construction	Cranes	1	8.00	165	0.29
Building Construction	Forklifts	2	8.00	74	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Rubber Tired Dozers	1	8.00	44	0.40
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Trenching	Excavators	2	8.00	43	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	20	55.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0301	0.0000	0.0301	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0251	0.2733	0.1662	4.5000e-004		0.0101	0.0101		9.2600e-003	9.2600e-003	0.0000	39.7871	39.7871	0.0129	0.0000	40.1088
Total	**0.0251**	**0.2733**	**0.1662**	**4.5000e-004**	**0.0301**	**0.0101**	**0.0402**	**0.0166**	**9.2600e-003**	**0.0258**	**0.0000**	**39.7871**	**39.7871**	**0.0129**	**0.0000**	**40.1088**

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.7000e-004	4.6300e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1788	1.1788	3.0000e-005	0.0000	1.1796
Total	**6.4000e-004**	**4.7000e-004**	**4.6300e-003**	**1.0000e-005**	**1.4500e-003**	**1.0000e-005**	**1.4600e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.1788**	**1.1788**	**3.0000e-005**	**0.0000**	**1.1796**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0136	0.0000	0.0136	7.4500e-003	0.0000	7.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0251	0.2733	0.1662	4.5000e-004		0.0101	0.0101		9.2600e-003	9.2600e-003	0.0000	39.7870	39.7870	0.0129	0.0000	40.1087
Total	**0.0251**	**0.2733**	**0.1662**	**4.5000e-004**	**0.0136**	**0.0101**	**0.0236**	**7.4500e-003**	**9.2600e-003**	**0.0167**	**0.0000**	**39.7870**	**39.7870**	**0.0129**	**0.0000**	**40.1087**

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.7000e-004	4.6300e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1788	1.1788	3.0000e-005	0.0000	1.1796
Total	**6.4000e-004**	**4.7000e-004**	**4.6300e-003**	**1.0000e-005**	**1.4500e-003**	**1.0000e-005**	**1.4600e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.1788**	**1.1788**	**3.0000e-005**	**0.0000**	**1.1796**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1234	1.0949	1.1166	1.7500e-003		0.0469	0.0469		0.0448	0.0448	0.0000	147.6258	147.6258	0.0339	0.0000	148.4742
Total	**0.1234**	**1.0949**	**1.1166**	**1.7500e-003**		**0.0469**	**0.0469**		**0.0448**	**0.0448**	**0.0000**	**147.6258**	**147.6258**	**0.0339**	**0.0000**	**148.4742**

3.3 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5700e-003	0.1141	0.0336	2.8000e-004	7.3200e-003	3.4000e-004	7.6600e-003	2.1100e-003	3.3000e-004	2.4400e-003	0.0000	27.8204	27.8204	1.9600e-003	0.0000	27.8694
Worker	0.0103	7.6200e-003	0.0743	2.1000e-004	0.0232	1.6000e-004	0.0234	6.1600e-003	1.4000e-004	6.3100e-003	0.0000	18.9097	18.9097	5.3000e-004	0.0000	18.9229
Total	**0.0139**	**0.1217**	**0.1079**	**4.9000e-004**	**0.0305**	**5.0000e-004**	**0.0310**	**8.2700e-003**	**4.7000e-004**	**8.7500e-003**	**0.0000**	**46.7300**	**46.7300**	**2.4900e-003**	**0.0000**	**46.7923**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1234	1.0949	1.1166	1.7500e-003		0.0469	0.0469		0.0448	0.0448	0.0000	147.6257	147.6257	0.0339	0.0000	148.4740
Total	**0.1234**	**1.0949**	**1.1166**	**1.7500e-003**		**0.0469**	**0.0469**		**0.0448**	**0.0448**	**0.0000**	**147.6257**	**147.6257**	**0.0339**	**0.0000**	**148.4740**

3.3 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5700e-003	0.1141	0.0336	2.8000e-004	7.3200e-003	3.4000e-004	7.6600e-003	2.1100e-003	3.3000e-004	2.4400e-003	0.0000	27.8204	27.8204	1.9600e-003	0.0000	27.8694
Worker	0.0103	7.6200e-003	0.0743	2.1000e-004	0.0232	1.6000e-004	0.0234	6.1600e-003	1.4000e-004	6.3100e-003	0.0000	18.9097	18.9097	5.3000e-004	0.0000	18.9229
Total	**0.0139**	**0.1217**	**0.1079**	**4.9000e-004**	**0.0305**	**5.0000e-004**	**0.0310**	**8.2700e-003**	**4.7000e-004**	**8.7500e-003**	**0.0000**	**46.7300**	**46.7300**	**2.4900e-003**	**0.0000**	**46.7923**

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0616	0.5603	0.6017	9.5000e-004		0.0221	0.0221		0.0211	0.0211	0.0000	80.1472	80.1472	0.0182	0.0000	80.6022
Total	**0.0616**	**0.5603**	**0.6017**	**9.5000e-004**		**0.0221**	**0.0221**		**0.0211**	**0.0211**	**0.0000**	**80.1472**	**80.1472**	**0.0182**	**0.0000**	**80.6022**

3.3 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7900e-003	0.0584	0.0170	1.5000e-004	3.9700e-003	1.6000e-004	4.1300e-003	1.1500e-003	1.6000e-004	1.3000e-003	0.0000	14.9709	14.9709	1.0500e-003	0.0000	14.9972
Worker	5.2500e-003	3.7200e-003	0.0371	1.1000e-004	0.0126	8.0000e-005	0.0127	3.3500e-003	8.0000e-005	3.4200e-003	0.0000	9.8956	9.8956	2.6000e-004	0.0000	9.9020
Total	**7.0400e-003**	**0.0621**	**0.0541**	**2.6000e-004**	**0.0166**	**2.4000e-004**	**0.0168**	**4.5000e-003**	**2.4000e-004**	**4.7200e-003**	**0.0000**	**24.8665**	**24.8665**	**1.3100e-003**	**0.0000**	**24.8993**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0616	0.5603	0.6017	9.5000e-004		0.0221	0.0221		0.0211	0.0211	0.0000	80.1472	80.1472	0.0182	0.0000	80.6021
Total	**0.0616**	**0.5603**	**0.6017**	**9.5000e-004**		**0.0221**	**0.0221**		**0.0211**	**0.0211**	**0.0000**	**80.1472**	**80.1472**	**0.0182**	**0.0000**	**80.6021**

3.3 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7900e-003	0.0584	0.0170	1.5000e-004	3.9700e-003	1.6000e-004	4.1300e-003	1.1500e-003	1.6000e-004	1.3000e-003	0.0000	14.9709	14.9709	1.0500e-003	0.0000	14.9972
Worker	5.2500e-003	3.7200e-003	0.0371	1.1000e-004	0.0126	8.0000e-005	0.0127	3.3500e-003	8.0000e-005	3.4200e-003	0.0000	9.8956	9.8956	2.6000e-004	0.0000	9.9020
Total	**7.0400e-003**	**0.0621**	**0.0541**	**2.6000e-004**	**0.0166**	**2.4000e-004**	**0.0168**	**4.5000e-003**	**2.4000e-004**	**4.7200e-003**	**0.0000**	**24.8665**	**24.8665**	**1.3100e-003**	**0.0000**	**24.8993**

3.4 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8700e-003	0.0380	0.0492	8.0000e-005		1.9400e-003	1.9400e-003		1.7900e-003	1.7900e-003	0.0000	6.6024	6.6024	2.0900e-003	0.0000	6.6546
Paving	1.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0100e-003**	**0.0380**	**0.0492**	**8.0000e-005**		**1.9400e-003**	**1.9400e-003**		**1.7900e-003**	**1.7900e-003**	**0.0000**	**6.6024**	**6.6024**	**2.0900e-003**	**0.0000**	**6.6546**

3.4 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	1.7700e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4735	0.4735	1.0000e-005	0.0000	0.4738
Total	**2.5000e-004**	**1.8000e-004**	**1.7700e-003**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**6.1000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4735**	**0.4735**	**1.0000e-005**	**0.0000**	**0.4738**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8700e-003	0.0380	0.0492	8.0000e-005		1.9400e-003	1.9400e-003		1.7900e-003	1.7900e-003	0.0000	6.6024	6.6024	2.0900e-003	0.0000	6.6545
Paving	1.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.0100e-003**	**0.0380**	**0.0492**	**8.0000e-005**		**1.9400e-003**	**1.9400e-003**		**1.7900e-003**	**1.7900e-003**	**0.0000**	**6.6024**	**6.6024**	**2.0900e-003**	**0.0000**	**6.6545**

3.4 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.8000e-004	1.7700e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4735	0.4735	1.0000e-005	0.0000	0.4738
Total	**2.5000e-004**	**1.8000e-004**	**1.7700e-003**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**6.1000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4735**	**0.4735**	**1.0000e-005**	**0.0000**	**0.4738**

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0680					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**1.0690**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.5 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3000e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3472	0.3472	1.0000e-005	0.0000	0.3474
Total	**1.8000e-004**	**1.3000e-004**	**1.3000e-003**	**0.0000**	**4.4000e-004**	**0.0000**	**4.4000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3472**	**0.3472**	**1.0000e-005**	**0.0000**	**0.3474**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0680					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	**1.0690**	**7.0400e-003**	**9.0700e-003**	**1.0000e-005**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**1.2766**	**1.2766**	**8.0000e-005**	**0.0000**	**1.2787**

3.5 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.3000e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3472	0.3472	1.0000e-005	0.0000	0.3474
Total	**1.8000e-004**	**1.3000e-004**	**1.3000e-003**	**0.0000**	**4.4000e-004**	**0.0000**	**4.4000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3472**	**0.3472**	**1.0000e-005**	**0.0000**	**0.3474**

3.6 Trenching - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3800e-003	0.0107	0.0123	2.0000e-005		4.6000e-004	4.6000e-004		4.2000e-004	4.2000e-004	0.0000	1.3737	1.3737	4.4000e-004	0.0000	1.3848
Total	**1.3800e-003**	**0.0107**	**0.0123**	**2.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.2000e-004**	**4.2000e-004**	**0.0000**	**1.3737**	**1.3737**	**4.4000e-004**	**0.0000**	**1.3848**

3.6 Trenching - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	5.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1578	0.1578	0.0000	0.0000	0.1579
Total	**8.0000e-005**	**6.0000e-005**	**5.9000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1578**	**0.1578**	**0.0000**	**0.0000**	**0.1579**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3800e-003	0.0107	0.0123	2.0000e-005		4.6000e-004	4.6000e-004		4.2000e-004	4.2000e-004	0.0000	1.3737	1.3737	4.4000e-004	0.0000	1.3848
Total	**1.3800e-003**	**0.0107**	**0.0123**	**2.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.2000e-004**	**4.2000e-004**	**0.0000**	**1.3737**	**1.3737**	**4.4000e-004**	**0.0000**	**1.3848**

3.6 Trenching - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	5.9000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1578	0.1578	0.0000	0.0000	0.1579
Total	**8.0000e-005**	**6.0000e-005**	**5.9000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**2.0000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1578**	**0.1578**	**0.0000**	**0.0000**	**0.1579**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0223	0.0925	0.2508	1.0200e-003	0.1204	7.0000e-004	0.1211	0.0322	6.5000e-004	0.0329	0.0000	94.2875	94.2875	3.5400e-003	0.0000	94.3759
Unmitigated	0.0223	0.0925	0.2508	1.0200e-003	0.1204	7.0000e-004	0.1211	0.0322	6.5000e-004	0.0329	0.0000	94.2875	94.2875	3.5400e-003	0.0000	94.3759

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	154.70	120.12	61.88	319,239	319,239
Parking Lot	0.00	0.00	0.00		
Total	154.70	120.12	61.88	319,239	319,239

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	6.60	7.30	7.30	59.00	28.00	13.00	92	5	3
Parking Lot	6.60	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.604374	0.031903	0.196198	0.101737	0.013626	0.004981	0.018143	0.019683	0.001877	0.001260	0.004427	0.000985	0.000804
Parking Lot	0.604374	0.031903	0.196198	0.101737	0.013626	0.004981	0.018143	0.019683	0.001877	0.001260	0.004427	0.000985	0.000804

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	436.3098	436.3098	0.0196	4.2000e-003	438.0520
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	436.3098	436.3098	0.0196	4.2000e-003	438.0520
NaturalGas Mitigated	0.0523	0.4758	0.3997	2.8500e-003		0.0362	0.0362		0.0362	0.0362	0.0000	518.0009	518.0009	9.9300e-003	9.5000e-003	521.0791
NaturalGas Unmitigated	0.0523	0.4758	0.3997	2.8500e-003		0.0362	0.0362		0.0362	0.0362	0.0000	518.0009	518.0009	9.9300e-003	9.5000e-003	521.0791

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	9.70697e+006	0.0523	0.4758	0.3997	2.8500e-003		0.0362	0.0362		0.0362	0.0362	0.0000	518.0009	518.0009	9.9300e-003	9.5000e-003	521.0791
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0523**	**0.4758**	**0.3997**	**2.8500e-003**		**0.0362**	**0.0362**		**0.0362**	**0.0362**	**0.0000**	**518.0009**	**518.0009**	**9.9300e-003**	**9.5000e-003**	**521.0791**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	9.70697e+006	0.0523	0.4758	0.3997	2.8500e-003		0.0362	0.0362		0.0362	0.0362	0.0000	518.0009	518.0009	9.9300e-003	9.5000e-003	521.0791
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0523**	**0.4758**	**0.3997**	**2.8500e-003**		**0.0362**	**0.0362**		**0.0362**	**0.0362**	**0.0000**	**518.0009**	**518.0009**	**9.9300e-003**	**9.5000e-003**	**521.0791**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	3.07398e+006	434.3908	0.0195	4.1800e-003	436.1253
Parking Lot	13580	1.9190	9.0000e-005	2.0000e-005	1.9267
Total		**436.3098**	**0.0196**	**4.2000e-003**	**438.0520**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	3.07398e+006	434.3908	0.0195	4.1800e-003	436.1253
Parking Lot	13580	1.9190	9.0000e-005	2.0000e-005	1.9267
Total		**436.3098**	**0.0196**	**4.2000e-003**	**438.0520**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4649	2.0000e-005	1.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3600e-003	3.3600e-003	1.0000e-005	0.0000	3.5800e-003
Unmitigated	0.4649	2.0000e-005	1.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3600e-003	3.3600e-003	1.0000e-005	0.0000	3.5800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1068					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.6000e-004	2.0000e-005	1.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3600e-003	3.3600e-003	1.0000e-005	0.0000	3.5800e-003
Total	**0.4649**	**2.0000e-005**	**1.7200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.3600e-003**	**3.3600e-003**	**1.0000e-005**	**0.0000**	**3.5800e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1068					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3579					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.6000e-004	2.0000e-005	1.7200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.3600e-003	3.3600e-003	1.0000e-005	0.0000	3.5800e-003
Total	**0.4649**	**2.0000e-005**	**1.7200e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.3600e-003**	**3.3600e-003**	**1.0000e-005**	**0.0000**	**3.5800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.3821	0.0417	9.9000e-004	2.7196
Unmitigated	1.3821	0.0417	9.9000e-004	2.7196

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.2775 / 0	1.3821	0.0417	9.9000e-004	2.7196
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.3821**	**0.0417**	**9.9000e-004**	**2.7196**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	1.2775 / 0	1.3821	0.0417	9.9000e-004	2.7196
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**1.3821**	**0.0417**	**9.9000e-004**	**2.7196**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.5670	0.5654	0.0000	23.7018
Unmitigated	9.5670	0.5654	0.0000	23.7018

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	47.13	9.5670	0.5654	0.0000	23.7018
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**9.5670**	**0.5654**	**0.0000**	**23.7018**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	47.13	9.5670	0.5654	0.0000	23.7018
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**9.5670**	**0.5654**	**0.0000**	**23.7018**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	1072.82	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.0440	0.1967	0.1121	2.1000e-004		6.4700e-003	6.4700e-003		6.4700e-003	6.4700e-003	0.0000	20.4107	20.4107	2.8600e-003	0.0000	20.4823
Total	**0.0440**	**0.1967**	**0.1121**	**2.1000e-004**		**6.4700e-003**	**6.4700e-003**		**6.4700e-003**	**6.4700e-003**	**0.0000**	**20.4107**	**20.4107**	**2.8600e-003**	**0.0000**	**20.4823**

11.0 Vegetation

Appendix B

Biological Letter Report

Rincon Consultants, Inc.

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December 30, 2020
Project No: 20-09428

Brian Halvorson,
Planning Manager
City of Lompoc,
Community Development Department
100 Civic Center Plaza
Lompoc, California 93436

Subject: **Biological Resources Field Reconnaissance Survey Report for the Organic Liberty, LLC Commercial Cannabis Project in Lompoc, California**

Dear Mr. Halvorson:

This letter report documents the results of a biological resources field reconnaissance survey conducted by Rincon Consultants, Inc. (Rincon) for the City of Lompoc (City) at the Organic Liberty, LLC Commercial Cannabis Project (project) site. The survey was conducted to field-verify vegetation communities and wildlife habitats present within the project area and to assess the potential for sensitive biological resources to occur. The field survey was at the reconnaissance level and did not include protocol-level botanical or wildlife surveys, as the site does not provide suitable habitat for any special-status species.

Survey Location

The 3.75-acre project site is located in the City of Lompoc, Santa Barbara County, California (Attachment A; Figure 1). The project area is on the north side of West Central Avenue, between West Barton Avenue and North O Street (Attachment A; Figure 2). The project site falls within the *Lompoc, California* 7.5-minute U.S. Geological Survey (USGS) topographic quadrangle and the approximate center of the project area is located at latitude 34.661622° N and longitude 120.469985° W (WGS 84).

Methodology

Rincon biologist Heather Price Curran conducted the reconnaissance-level field survey on December 18, 2020 from 1200 until 1315. Weather conditions were clear and sunny at the time of the survey, with 0% cloud cover, temperatures ranging from 65°F to 68°F, and 0 to 5 mile per hour winds from the northwest.

Meandering transect surveys were conducted on foot throughout the entire project area. Plant and animal species present within the project area were noted, as well as any wildlife habitat or vegetation communities. A 500-foot buffer zone surrounding the project site was also assessed for potentially suitable nesting bird habitat. Binoculars (10 X 42) were used to maximize visual coverage of the project area and buffer zone.

Queries of the California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) (2020), and the California Native Plant Society (CNPS) Online Inventory of Rare and Endangered Plants of California (2020) were conducted to obtain comprehensive information regarding State and federally listed species, State Fully Protected species, California Species of Special Concern, and California Rare Plant Rank (CRPR) 1 and 2 species with documented occurrences within the *Lompoc*, California USGS 7.5-minute topographic quadrangle and the surrounding eight quadrangles (*Casmalia, Orcutt, Sisquoc, Los Alamos, Santa Rosa Hills, Lompoc Hills, Tranquillon Mtn.,* and *Surf*). An evaluation of the potential for each of these special-status species to occur within the project area was conducted and is included as Attachment C.

Assessments for the potential occurrence of special-status species are based upon known ranges, habitat preferences for the species, species occurrence records from the CNDDB, previous reports for the study area, and the results of the reconnaissance-level field survey. The potential for each special-status species to occur in the study area was evaluated according to the following criteria:

- **Not Expected.** Habitat on and adjacent to the site is clearly unsuitable for the species requirements (foraging, breeding, cover, substrate, elevation, hydrology, plant community, site history, disturbance regime), and species would have been identifiable on-site if present (e.g., oak trees). Protocol surveys (if conducted) did not detect species.
- **Low Potential.** Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality. The species is not likely to be found on the site. Protocol surveys (if conducted) did not detect species.
- **Moderate Potential.** Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable. The species has a moderate probability of being found on the site.
- **High Potential.** All of the habitat components meeting the species requirements are present and/or most of the habitat on or adjacent to the site is highly suitable. The species has a high probability of being found on the site.
- **Present.** Species is observed on the site or has been recorded (e.g., CNDDB, other reports) on the site recently (within the last 5 years).

Results

Vegetation Communities and Critical Habitats

There are no intact native vegetation communities present within the project area. The site is an infill parcel adjacent to active agriculture to the west and urban development to the north, east, and south. There was a residence on the site from at least 1937 through the 1970s and the site was used for agriculture from at least 1937 to the early 2000s. Since that time, the lot has been vacant but regularly mowed. The project site now consists of previously disturbed open space covered in primarily ruderal vegetation. A small amount of native coyote brush (*Baccharis pilularis*) is scattered throughout the site, though individual plants are small and do not occur at such densities as to constitute a vegetation community or to provide suitable habitat for any special-status wildlife species. Other plant species observed within the project area include Russian thistle (*Salsola* sp.), common mustard (*Brassica rapa*), shepherd's purse (*Capsella bursa-pastoris*), sea lavender (*Limonium* sp.), and telegraph weed

(*Heterotheca grandiflora*). No special-status plant species were observed during the field reconnaissance survey. Site photos are included as Attachment B.

The project site is not located within federally designated critical habitat.

Wildlife

A single monarch butterfly (*Danaus plexippus*) was observed flying through the project area during the field reconnaissance survey. The monarch is a candidate for listing under the Federal Endangered Species Act (FESA) and is therefore a special-status species. No suitable roosting sites or host plant species occur within the project site.

Burrows were observed throughout the project site, which were likely made by Botta's pocket gopher (*Thomomys bottae*) and California ground squirrel (*Otospermophilus beecheyi*).

Table 1 provides a list of all wildlife species observed within the project area during the field reconnaissance survey.

Table 1. Wildlife Species Observed during the Field Reconnaissance Survey on December 18, 2020

Common Name	*Scientific Name*
Birds	
American crow	*Corvus brachyrhynchos*
Anna's hummingbird	*Calypte anna*
black phoebe	*Sayornis nigricans*
Cassin's kingbird	*Tyrannus vociferans*
chipping sparrow	*Spizella passerina*
red-tailed hawk	*Buteo jamaicensis*
turkey vulture	*Cathartes aura*
vesper sparrow	*Pooecetes gramineus*
white-crowned sparrow	*Zonotrichia leucophrys*
Mammals	
California ground squirrel	*Otospermophilus beecheyi*
Reptiles	
western fence lizard	*Sceloporus occidentalis*
Invertebrates	
California bumble bee	*Bombus californicus*
monarch butterfly	*Danaus plexippus* (FESA Candidate)
western honey bee	*Apis mellifera*

Special-status Species

The project site does not provide suitable habitat components for any special-status species (Attachment C). Ornamental trees and shrubs located on adjacent properties to the north, east, and south of the project site could provide suitable nesting bird habitat.

Conclusion

No native vegetation communities are present within the project area and no special-status plant species were observed during the field reconnaissance survey. One special-status animal species, a monarch butterfly, was observed flying over the project area during the survey. However, there is no monarch overwintering habitat or host plants present within the project area or a 500-foot buffer and therefore, project activities are not expected to impact the species.

No habitat for any special-status species exists within the project area. Ornamental trees and shrubs within 500 feet of the project area could provide suitable habitat for nesting birds. If project activities occur during the nesting bird season (February 15 through September 1), a pre-construction survey for active bird nests should be conducted within two weeks prior to the start of construction.

Thank you for the opportunity to work with you on this important project. Please contact Ryan Russell if you have questions concerning the contents of this report. He may be reached by telephone at (949) 306-5606, or by email at rrussell@rinconconsultants.com.

Sincerely,
Rincon Consultants, Inc.

Heather Price Curran
Associate Biologist

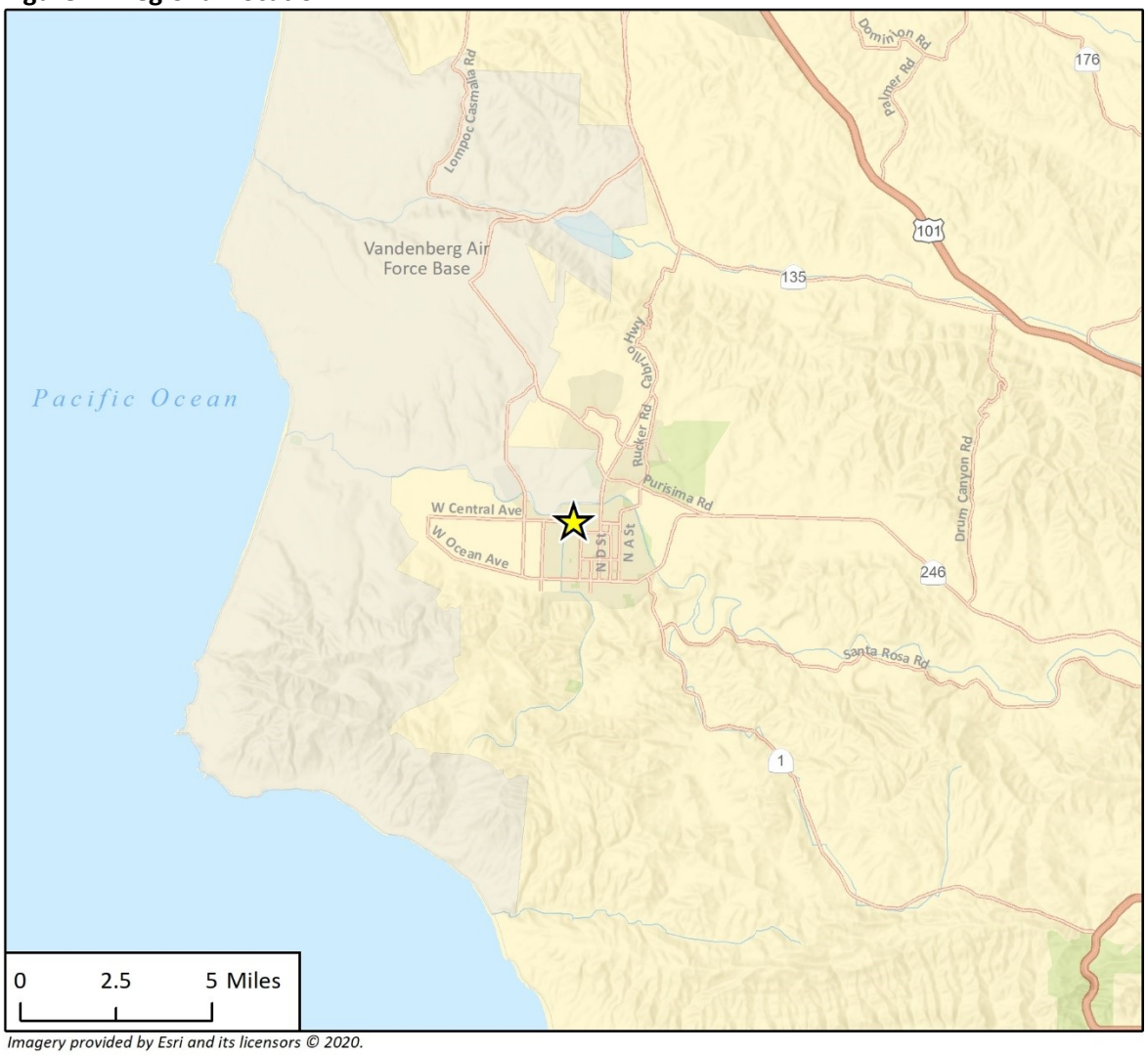
Enclosures

Attachment A	Figures 1 and 2 - Project Location Maps
Attachment B	Site Photographs
Attachment C	Special-status Species Potential to Occur Evaluation Table

Attachment A

Figures

Figure 1. Regional Location



Imagery provided by Esri and its licensors © 2020.

Project Location

N

Fig 1-Regional Location

Figure 2. Project Location

Imagery provided by Microsoft Bing and its licensors © 2020.

Attachment B

Reconnaissance Survey Photographs

Photograph 1. View of the project area from Barton Avenue, facing east.

Photograph 2. View of the northern project boundary, facing east. Trees and shrubs on adjacent properties could provide suitable nesting bird habitat.

Photograph 3. View from the northeast corner of the project site, facing southwest. No native vegetation communities are present within the project area.

Photograph 4. View of southern project area boundary along West Central Avenue, facing west.

Photograph 5. View of western project area boundary and adjacent agricultural field across West Barton Avenue, facing west.

Photo 6. View of western project area boundary, facing north.

Attachment C

Special-status Species Potential to Occur Evaluation Table

Table C-1. Special-status species known to occur within the *Lompoc, California* and surrounding eight USGS 7.5-minute quadrangles

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Plants and Lichens				
Agrostis hooveri Hoover's bent grass	None/None G2/S2 1B.2	Usually occurs on sandy substrates within closed-cone coniferous forest, chaparral, cismontane woodland, and valley and foothill grassland. Species blooms from April to July and typically occurs at elevations ranging from 6-610 m.	Not Expected	No suitable habitat for the species exists within the project area.
Ancistrocarphus keilii Santa Ynez groundstar	None/None G1/S1 1B.1	Chaparral, Cismontane woodland. sandy. 40 - 130 m. annual herb. Blooms Mar-Apr	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Aphanisma blitoides aphanisma	None/None G3G4/S2 1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub. sandy or gravelly. 1 - 305 m. annual herb. Blooms Feb-Jun	Not Expected	No suitable habitat for the species exists within the project area.
Arctostaphylos crustacea ssp. *eastwoodiana* Eastwood's brittle-leaf manzanita	None/None G4T2/S2 1B.1	Chaparral (maritime, sandy). 90 - 365 m. perennial evergreen shrub. Blooms Mar	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Arctostaphylos pechoensis Pecho manzanita	None/None G2/S2 1B.2	Occurs on siliceous shale substrates within closed-cone coniferous forest, chaparral, and coastal scrub. This species blooms between November and March, and typically occurs at elevations ranging from 60-850 meters.	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Arctostaphylos purissima La Purisima manzanita	None/None G2/S2 1B.1	Chaparral (sandy), Coastal scrub. 60 - 555 m. perennial evergreen shrub. Blooms Nov-May	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Arctostaphylos refugioensis Refugio manzanita	None/None G3/S3 1B.2	Chaparral (sandstone). 274 - 820 m. perennial evergreen shrub. Blooms Dec-Mar (May)	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Arctostaphylos rudis sand mesa manzanita	None/None G2/S2 1B.2	Chaparral (maritime), Coastal scrub. sandy. 25 - 322 m. perennial evergreen shrub. Blooms Nov-Feb	Not Expected	No suitable habitat for the species exists within the project area.
Astragalus didymocarpus var. *milesianus* Miles' milk-vetch	None/None G5T2/S2 1B.2	Occurs in clay substrates within coastal scrub. This species blooms between March and June, and typically occurs at elevations ranging from 20-90 m.	Not Expected	No suitable habitat for the species exists within the project area.
Atriplex coulteri Coulter's saltbush	None/None G3/S1S2 1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland. alkaline or clay. 3 - 460 m. perennial herb. Blooms Mar-Oct	Not Expected	No suitable habitat for the species exists within the project area.
Calochortus fimbriatus late-flowered mariposa lily	None/None G3/S3 1B.3	Chaparral, Cismontane woodland, Riparian woodland. often serpentinite. 275 - 1905 m. perennial bulbiferous herb. Blooms Jun-Aug	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Ceanothus impressus var. *impressus* Santa Barbara ceanothus	None/None G3T2/S2 1B.2	Chaparral. sandy. 40 - 470 m. perennial shrub. Blooms Feb-Apr	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Ceanothus impressus var. *nipomensis* Nipomo Mesa ceanothus	None/None G3T2/S2 1B.2	Chaparral. sandy. 30 - 245 m. perennial shrub. Blooms Feb-Apr	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Chenopodium littoreum coastal goosefoot	None/None G1/S1 1B.2	Occurs in coastal dunes. Species blooms between April and August, and typically occurs at elevations ranging from 10-30 m.	Not Expected	No suitable habitat for the species exists within the project area.
Chorizanthe rectispina straight-awned spineflower	None/None G2/S2 1B.3	Chaparral, Cismontane woodland, Coastal scrub. 85 - 1035 m. annual herb. Blooms Apr-Jul	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Cicuta maculata var. *bolanderi* Bolander's water-hemlock	None/None G5T4T5/S2? 2B.1	Marshes and swamps Coastal, fresh or brackish water. 0 - 200 m. perennial herb. Blooms Jul-Sep	Not Expected	No suitable habitat for the species exists within the project area.
Cirsium rhothophilum Surf thistle	None/ST G1/S1 1B.2	Coastal bluff scrub, Coastal dunes. 3 - 60 m. perennial herb. Blooms Apr-Jun	Not Expected	No suitable habitat for the species exists within the project area.
Cirsium scariosum var. *loncholepis* La Graciosa thistle	FE/ST G5T1/S1 1B.1	Cismontane woodland, Coastal dunes, Coastal scrub, Marshes and swamps (brackish), Valley and foothill grassland. mesic, sandy. 4 - 220 m. perennial herb. Blooms May-Aug	Not Expected	No suitable habitat for the species exists within the project area.
Cladium californicum California sawgrass	None/None G4/S2 2B.2	Meadows and seeps, Marshes and swamps Alkaline or Freshwater. 60 - 1600 m. perennial rhizomatous herb. Blooms Jun-Sep	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Cordylanthus rigidus ssp. *littoralis* seaside bird's-beak	None/SE G5T2/S2 1B.1	Closed-cone coniferous forest, Chaparral (maritime), Cismontane woodland, Coastal dunes, Coastal scrub. sandy, often disturbed sites. 0 - 515 m. annual herb (hemiparasitic). Blooms Apr-Oct	Not Expected	No natural communities occur within the project site. The species may occur in disturbed sites within the vicinity of the project area, but all CNPS records within a 5-mile radius are historical and/or located within ecological reserves.
Deinandra increscens ssp. *villosa* Gaviota tarplant	FE/SE G4G5T2/S2 1B.1	Coastal bluff scrub, Coastal scrub, Valley and foothill grassland. 20 - 430 m. annual herb. Blooms May-Oct	Not Expected	No suitable habitat for the species exists within the project area.
Delphinium parryi ssp. *blochmaniae* dune larkspur	None/None G4T2/S2 1B.2	Chaparral (maritime), Coastal dunes. 0 - 200 m. perennial herb. Blooms Apr-Jun	Not Expected	No suitable habitat for the species exists within the project area.
Delphinium umbraculorum umbrella larkspur	None/None G3/S3 1B.3	Chaparral, Cismontane woodland. 400 - 1600 m. perennial herb. Blooms Apr-Jun	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Diplacus vandenbergensis Vandenberg monkeyflower	FE/None G1/S1 1B.1	Chaparral, Cismontane woodland, Coastal dunes. Sandy; often disturbed areas. 60 - 120 m. annual herb. Blooms Apr-Jun	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Dithyrea maritima beach spectaclepod	None/ST G1/S1 1B.1	Occurs in coastal dunes and sandy substrates within coastal scrub sand dunes and other sandy soils near the sea shore. This species blooms between March and May, and typically occurs at elevations ranging from 3-50 m.	Not Expected	No suitable habitat for the species exists within the project area.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Dudleya blochmaniae ssp. *blochmaniae* Blochman's dudleya	None/None G3T2/S2 1B.1	Occurs in rocky, often clay or serpentinite substrates within coastal bluff scrub, chaparral, coastal scrub, and valley and foothill grassland. This species blooms between April and June, and typically occurs at elevations ranging from 5-450 meters.	Not Expected	No suitable habitat for the species exists within the project area.
Erigeron blochmaniae Blochman's leafy daisy	None/None G2/S2 1B.2	Coastal dunes, Coastal scrub. 3 - 45 m. perennial rhizomatous herb. Blooms Jun-Aug	Not Expected	No suitable habitat for the species exists within the project area.
Eriodictyon capitatum Lompoc yerba santa	FE/SR G2/S2 1B.2	Coastal bluff scrub, Closed-cone coniferous forest, Chaparral (maritime). sandy. 40 - 900 m. perennial evergreen shrub. Blooms May-Sep	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Horkelia cuneata var. *puberula* mesa horkelia	None/None G4T1/S1 1B.1	Perennial herb. Blooms February to September. Chaparral, cismontane woodland, coastal scrub. Sandy or gravelly sites. 70-810m	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Horkelia cuneata var. *sericea* Kellogg's horkelia	None/None G4T1?/S1? 1B.1	Closed-cone coniferous forest, Chaparral (maritime), Coastal dunes, Coastal scrub. sandy or gravelly, openings. 10 - 200 m. perennial herb. Blooms Apr-Sep	Not Expected	No suitable habitat for the species exists within the project area.
Lasthenia glabrata ssp. *coulteri* Coulter's goldfields	None/None G4T2/S2 1B.1	Annual herb. Blooms February to June. Coastal salt marshes, playas, valley and foothill grassland, vernal pools. Usually found on alkaline soils in playas, sinks, and grasslands. 1-1400m	Not Expected	No suitable habitat for the species exists within the project area.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Layia carnosa beach layia	FE/SE G2/S2 1B.1	Coastal dunes, Coastal scrub (sandy). 0 - 60 m. annual herb. Blooms Mar-Jul	Not Expected	No suitable habitat for the species exists within the project area.
Layia heterotricha pale-yellow layia	None/None G2/S2 1B.1	Cismontane woodland, Coastal scrub, Pinyon and juniper woodland, Valley and foothill grassland. alkaline or clay. 300 - 1705 m. annual herb. Blooms Mar-Jun	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Lonicera subspicata var. *subspicata* Santa Barbara honeysuckle	None/None G5T2?/S2? 1B.2	Chaparral, Cismontane woodland, Coastal scrub. 10 - 1000 m. perennial evergreen shrub. Blooms May-Aug (Dec-Feb)	Not Expected	No suitable habitat for the species exists within the project area.
Monardella hypoleuca ssp. *hypoleuca* white-veined monardella	None/None G4T3/S3 1B.3	Perennial herb. Blooms April to December. Chaparral, cismontane woodland. Dry slopes. 50-1525m	Not Expected	No suitable habitat for the species exists within the project area and the project area is outside of the elevation range for the species.
Monardella sinuata ssp. *sinuata* southern curly-leaved monardella	None/None G3T2/S2 1B.2	Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub (openings). Sandy. 0 - 300 m. annual herb. Blooms Apr-Sep	Not Expected	No suitable habitat for the species exists within the project area.
Monardella undulata ssp. *arguelloensis* Point Arguello monardella	None/None G3T1/S1 1B.1	Coastal bluff scrub, Coastal dunes (stabilized), Coastal scrub. sandy. 50 - 150 m. perennial shrub. Blooms May-Sep	Not Expected	No suitable habitat for the species exists within the project area.
Monardella undulata ssp. *crispa* crisp monardella	None/None G3T2/S2 1B.2	Coastal dunes, Coastal scrub. 10 - 120 m. perennial rhizomatous herb. Blooms Apr-Aug(Dec)	Not Expected	No suitable habitat for the species exists within the project area.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Monardella undulata ssp. *undulata* San Luis Obispo monardella	None/None G2/S2 1B.2	Coastal dunes, Coastal scrub (sandy). 10 - 200 m. perennial rhizomatous herb. Blooms May-Sep	Not Expected	No suitable habitat for the species exists within the project area.
Nasturtium gambelii Gambel's water cress	FE/ST G1/S1 1B.1	Marshes and swamps (freshwater or brackish). 5 - 330 m. perennial rhizomatous herb. Blooms Apr-Oct	Not Expected	No suitable habitat for the species exists within the project area.
Scrophularia atrata black-flowered figwort	None/None G2?/S2? 1B.2	Closed-cone coniferous forest, Chaparral, Coastal dunes, Coastal scrub, Riparian scrub. 10 - 500 m. perennial herb. Blooms Mar-Jul	Not Expected	No suitable habitat for the species exists within the project area.
Senecio aphanactis chaparral ragwort	None/None G3/S2 2B.2	Chaparral, Cismontane woodland, Coastal scrub. sometimes alkaline. 15 - 800 m. annual herb. Blooms Jan-Apr(May)	Not Expected	No suitable habitat for the species exists within the project area.
Symphyotrichum defoliatum San Bernardino aster	None/None G2/S2 1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps, Valley and foothill grassland (vernally mesic). near ditches, streams, springs. 2 - 2040 m. perennial rhizomatous herb. Blooms Jul-Nov(Dec)	Not Expected	No suitable habitat for the species exists within the project area.
Thelypteris puberula var. *sonorensis* Sonoran maiden fern	None/None G5T3/S2 2B.2	Meadows and seeps (seeps and streams). 50 - 610 m. perennial rhizomatous herb. Blooms Jan-Sep	Not Expected	No suitable habitat for the species exists within the project area.
Invertebrates				

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Danaus plexippus pop. 1 monarch - California overwintering population	Candidate FESA/None G4T2T3/S2S3	Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts located in wind-protected tree groves (eucalyptus, Monterey pine, cypress), with nectar and water sources nearby.	Present	A transient monarch butterfly was observed during the field reconnaissance survey flying through the site, but no roosting habitat or host plants for the species exists within or in the vicinity of the project area. No impacts to the species are expected from the project.
Fish				
Eucyclogobius newberryi tidewater goby	FE/None G3/S3	Brackish water habitats along the California coast from Agua Hedionda Lagoon, San Diego County to the mouth of the Smith River. Found in shallow lagoons and lower stream reaches, they need fairly still but not stagnant water and high oxygen levels.	Not Expected	No waterways exist within the project area or a 0.5-mile radius.
Gasterosteus aculeatus williamsoni unarmored threespine stickleback	FE/SE G5T1/S1 FP	Weedy pools, backwaters, and among emergent vegetation at the stream edge in small Southern California streams. Cool (<24 C), clear water with abundant vegetation.	Not Expected	No waterways exist within the project area or a 0.5-mile radius.
Oncorhynchus mykiss irideus pop. 10 steelhead - southern California DPS	FE/None G5T1Q/S1	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County). Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.	Not Expected	No waterways exist within the project area or a 0.5-mile radius.
Amphibians				

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Ambystoma californiense California tiger salamander	FT/ST G2G3/S2S3 WL	Central Valley DPS federally listed as threatened. Santa Barbara and Sonoma counties DPS federally listed as endangered. Need underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal water sources for breeding.	Not Expected	No vernal pools or other seasonal water sources exist within the vicinity of the project area, and development surrounding the project area provides a barrier to transient amphibians.
Rana draytonii California red-legged frog	FT/None G2G3/S2S3 SSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Not Expected	No suitable aquatic or riparian habitat for the species exists within the project area, and development surrounding the project area provides a barrier to transient amphibians.
Spea hammondii western spadefoot	None/None G3/S3 SSC	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Not Expected	No suitable grassland or woodland habitat for the species exists within the project area, and development surrounding the project area provides a barrier to transient amphibians.
Reptiles				
Anniella pulchra Northern California legless lizard	None/None G3/S3 SSC	Sandy or loose loamy soils under sparse vegetation. Soil moisture is essential. They prefer soils with a high moisture content.	Not Expected	No suitable habitat for the species exists within the project area.
Emys marmorata western pond turtle	None/None G3G4/S3 SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	Not Expected	No suitable habitat for the species exists within the project area.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Phrynosoma blainvillii coast horned lizard	None/None G3G4/S3S4 SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	Not Expected	No suitable habitat for the species exists within the project area.
Salvadora hexalepis virgultea coast patch-nosed snake	None/None G5T4/S2S3 SSC	Brushy or shrubby vegetation in coastal Southern California. Require small mammal burrows for refuge and overwintering sites.	Not Expected	Some mammal burrow habitat exists within the project area, but due to the highly disturbed nature of the site and the surrounding development, the species is not expected to occur.
Thamnophis hammondii two-striped gartersnake	None/None G4/S3S4 SSC	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 ft elevation. Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	Not Expected	No suitable habitat for the species exists within the project area.
Birds				
Agelaius tricolor tricolored blackbird	None/ST G2G3/S1S2 SSC	Highly colonial species, most numerous in Central Valley & vicinity. Largely endemic to California. Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	Low Potential	No suitable nesting habitat for the species exists within the project area. Due to the species mobility, individuals may occur transiently and no impacts are expected.
Aimophila ruficeps canescens southern California rufous-crowned sparrow	None/None G5T3/S3 WL	Resident in Southern California coastal sage scrub and sparse mixed chaparral. Frequents relatively steep, often rocky hillsides with grass and forb patches.	Not Expected	No suitable habitat for the species exists within the project area.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Charadrius alexandrinus nivosus western snowy plover	FT/None G3T3/S2S3 SSC	Sandy beaches, salt pond levees & shores of large alkali lakes. Needs sandy, gravelly or friable soils for nesting.	Not Expected	No suitable habitat for the species exists within the project area.
Eremophila alpestris actia California horned lark	None/None G5T4Q/S4 WL	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills. Short-grass prairie, bald hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	Not Expected	No suitable habitat for the species exists within the project area.
Falco peregrinus anatum American peregrine falcon	FD/SD G4T4/S3S4 FP	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists of a scrape or a depression or ledge in an open site.	Low Potential	The species may pass over the project area, but no suitable foraging or nesting habitat for the species exists within the project site.
Setophaga petechia yellow warbler	None/None G5/S3S4 SSC	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada. Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	Not Expected	No suitable habitat for the species exists within the project area.
Sternula antillarum browni California least tern	FE/SE G4T2T3Q/S2 FP	Nests along the coast from San Francisco Bay south to northern Baja California. Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, land fills, or paved areas.	Not Expected	No suitable habitat for the species exists within the project area.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Vireo bellii pusillus least Bell's vireo	FE/SE G5T2/S2	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	Not Expected	No riparian habitat for the species exists within the project area or a 500-foot buffer.
Mammals				
Antrozous pallidus pallid bat	None/None G5/S3 SSC	Found in a variety of habitats including deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts in crevices of rock outcrops, caves, mine tunnels, buildings, bridges, and hollows of live and dead trees which must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Not Expected	No suitable roosting habitat for the species exists within the project area.
Corynorhinus townsendii Townsend's big-eared bat	None/None G3G4/S2 SSC	Occurs throughout California in a wide variety of habitats. Most common in mesic sites, typically coniferous or deciduous forests. Roosts in the open, hanging from walls & ceilings in caves, lava tubes, bridges, and buildings. This species is extremely sensitive to human disturbance.	Not Expected	No suitable roosting habitat for the species exists within the project area.
Eumops perotis californicus western mastiff bat	None/None G5T4/S3S4 SSC	Occurs in open, semi-arid to arid habitats, including coniferiferous and deciduous woodlands, coastal scrub, grasslands, and chaparral. Roosts in crevices in cliff faces and caves, and buildings. Roosts	Not Expected	No suitable roosting habitat for the species exists within the project area.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
		typically occur high above ground.		
Lasionycteris noctivagans silver-haired bat	None/None G5/S3S4	Primarily a coastal and montane forest dweller, feeding over streams, ponds & open brushy areas. Roosts in hollow trees, beneath exfoliating bark, abandoned woodpecker holes, and rarely under rocks. Needs drinking water.	Not Expected	No suitable roosting habitat for the species exists within the project area.
Lasiurus blossevillii western red bat	None/None G5/S3 SSC	Roosts in trees in forests and woodlands of varying elevations. Forages in grasslands, shrublands, open woodlands and forests, and agriculture. Typically found in riparian habitats, does not occur in deserts.	Not Expected	No suitable roosting habitat for the species exists within the project area.
Lasiurus cinereus hoary bat	None/None G5/S4	Typically roosts in trees in deciduous and coniferous forests and woodlands but occassionally roosts in rocks crevices. Forages in open areas, typically along riparian corridors or over water. Diet primarily consists of moths.	Not Expected	No suitable roosting habitat for the species exists within the project area.
Myotis yumanensis Yuma myotis	None/None G5/S4	Occurs in a variety of lowland and upland habitats including desert scrub, riparian, and woodlands and forests. Distribution is closely tied to bodies of water. Roosts in a variety of areas including caves, cliffs, mines, crevices in live trees, and buildings and other man-made structures.	Not Expected	No suitable roosting habitat for the species exists within the project area.
Neotoma lepida intermedia San Diego desert woodrat	None/None G5T3T4/S3S4 SSC	Occurs in scrub habitats of southern California from San Luis Obispo County to San Diego County.	Not Expected	No suitable habitat for the species exists within the project area.

Scientific Name Common Name	Status Fed/State Global Rank/ State Rank CDFW or CRPR	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Taxidea taxus American badger	None/None G5/S3 SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Not Expected	No suitable habitat for the species exists within the project area.
Sensitive Natural Communities				
Central Coast Arroyo Willow Riparian Forest	None/None G3/S3.2		Not Present	
Central Dune Scrub	None/None G2/S2.2		Not Present	
Central Foredunes	None/None G1/S1.2		Not Present	
Central Maritime Chaparral	None/None G2/S2.2		Not Present	
Coastal and Valley Freshwater Marsh	None/None G3/S2.1		Not Present	
Northern Coastal Salt Marsh	None/None G3/S3.2		Not Present	
Southern California Coastal Lagoon	None/None GNR/SNR		Not Present	
Southern California Steelhead Stream	None/None GNR/SNR		Not Present	
Southern California Threespine Stickleback Stream	None/None GNR/SNR		Not Present	
Southern Cottonwood Willow Riparian Forest	None/None G3/S3.2		Not Present	
Southern Vernal Pool	None/None GNR/SNR		Not Present	
Southern Willow Scrub	None/None G3/S2.1		Not Present	

FE = Federally Endangered FT = Federally Threatened FC = Federal Candidate Species FS=Federally Sensitive
SE = State Endangered ST = State Threatened SC = State Candidate SS=State Sensitive
SSC = CDFW Species of Special Concern FP = State Fully Protected

CRPR (CNPS California Rare Plant Rank):

1A=Presumed Extinct in California **1B**=Rare, Threatened, or Endangered in California and elsewhere

2A=Plants presumed extirpated in California, but more common elsewhere **2B**=Plants Rare, Threatened, or Endangered in California, but more common elsewhere

CRPR Threat Code Extension:

.1=Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat)

.2=Fairly endangered in California (20-80% occurrences threatened)

.3=Not very endangered in California (<20% of occurrences threatened)

Appendix C

Cultural Resources Study

Organic Liberty Lompoc, LLC Commercial Cannabis Project

Negative Phase 1 Archaeological Resources Report

prepared for

City of Lompoc
Community Development Department
100 Civic Center Plaza
Lompoc, California 93436

prepared by

Rincon Consultants, Inc.
209 East Victoria Street
Santa Barbara, California 93101

February 2021

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

Subject **Negative Phase 1 Archaeological Resources Report for the Organic Liberty Lompoc, LLC Commercial Cannabis Project, City of Lompoc, California**

To Whom It May Concern:

Please be advised that a survey has been conducted for the Organic Liberty Lompoc, LLC Commercial Cannabis Project (project). It has been determined that there are no cultural resources present on this property. The project site has been plotted on the attached United State Geological Survey (USGS) 7.5-minute topographic quadrangle (quad) map for your information (Attachment A: Figure 1).

Project Name:	Organic Liberty Lompoc, LLC Commercial Cannabis Project
Case Number:	DR 20-01
County:	Santa Barbara
USGS 7.5-minute Quad:	Lompoc
Date:	2020
Township:	07 N
Range:	34 W
Address:	1025/1035 West Central Avenue Lompoc, CA 93436
Other Locational Data:	Public Land Survey System Section 28
Assessor's Parcel Number(s):	093-450-055 and 093-450-056
Owner and Address:	Organic Liberty Lompoc, LLC
Survey Type:	Pedestrian
Date of Survey:	12/22/2020
Field Crew:	Fieldwork was completed by Mr. Dustin Merrick, BA, RA

Project Description

Organic Liberty Lompoc, LLC proposes to develop a commercial cannabis cultivation, manufacturing and processing building and distribution center on an undeveloped 3.8-acre site at 1025/1035 West Central Avenue in Lompoc, California (Attachment A: Figure 1 and Figure 2). The proposed project would include a lot line adjustment to combine two legal parcels (assessor parcel numbers [APN] 093-450-055 and 093-450-056) and create one 3.8-acre parcel. The project would also include the development of a large, two-story building (proposed building) and a small security booth in addition to an associated paved parking lot, concrete block perimeter wall and landscaping (Attachment A: Figure 3 and Figure 4).

The proposed building would be sited south-centrally on the project site. The roughly 91,000 square-foot building would feature a square footprint and be 35 feet tall. Rooftop mechanical equipment and associated screening would bring the building's total height to roughly 44 feet. The first floor of the building would contain the main office areas and break rooms for employees, as

well as the manufacturing and processing facilities, main storage areas (dry and frozen), and waste areas. The second floor would be primarily the nursery, with additional storage facilities and offices. In addition to the proposed building described above, the proposed project would construct a 150 square-foot security booth sited in the northwest corner of the project site. The security booth would be a single-story utilitarian building. As the proposed project site is currently vacant, construction of the facility would necessitate utility installation, including stormwater drains, water supply laterals, electrical, gas and sewer throughout the site. Utilities would be installed in at least 1,135 linear feet of trenches throughout the site including approximately 825 linear feet of storm drain, 220 linear feet of water supply laterals, and 90 linear feet of sewer laterals at a depth that would not exceed eight feet below grade.

The proposed building would be surrounded by a paved, L-shaped parking lot along its north and east elevations. The project would include the installation of 52 stormwater collection chambers (MC4500 chambers) in two stormwater infiltration basins on the site, one north and one east of the building, underneath the parking lot, to capture at least 8,300 cubic feet of stormwater. Stormwater infiltration basins would occupy an area measuring roughly 100 by 60 feet at depths of approximately eight feet below grade (Attachment: Figure 5). The proposed project includes the construction of a concrete block wall eight feet in height along the site's perimeter. Landscaping, including 32 parking lot trees, would be installed throughout the site (Attachment: Figure 6). Landscaping would be denser on the site's western and southern perimeters and would require excavation of a maximum of five feet below current grade.

Nursery

Nurseries are defined by the State of California as "cultivation sites that produce only clones, immature plants, seeds, and other agricultural products used specifically for the planting, propagation, and cultivation of cannabis." At a basic level, the nursery will cultivate immature plants for sale to licensees who will grow them to maturity at offsite cultivation locations. The 25,000 square foot nursery component of the project would be located on the second floor of the building and would consist of vegetative propagation using "mothers" and "clones."

Processing, Manufacturing, Storage & Distribution

The proposed facility would also include areas for processing, manufacturing, storage, and distribution. Processing operations would accept dried or fresh/frozen cannabis products from offsite, licensed cultivation facilities. Processing includes drying, destemming/trimming, sorting, and rolling/packaging, and would occur within approximately 17,500 square-feet on the first floor.

The manufacturing operations would utilize an ethanol extraction system to produce a cannabis concentrate within approximately 1,800 square-feet of the first floor. The project would receive a testing laboratory license from the Bureau of Cannabis Control (BCC). The finished product would be tested for quality control and packaged on the first floor.

Distribution is defined by the State of California as "the procurement, sale, and transport of cannabis and cannabis products between licensees." The proposed facility would procure cannabis cultivated at licensed off-site locations for processing and manufacturing. In addition, the facility would produce, sell, and transport finished cannabis products, including artisanal cannabis bud, bulk cannabis bud, pre-rolled cannabis joints, and oil extract. Deliveries to and from the project site would be within a 1,400 square-foot secured and enclosed shipping and receiving room in the

northeast corner of the structure. The applicant would be required to obtain a distributor license from BCC.

Pedestrian Survey

Rincon Consultants, Inc. (Rincon) Archaeologist Dustin Merrick, BA, RA conducted a field survey of the project site, including all areas of proposed ground disturbance, on December 22, 2020. The project site was completely undeveloped. All areas of exposed ground surface were examined for prehistoric artifacts (e.g., chipped stone tools and production debris, stone milling tools), historic-period debris (e.g., metal, glass, ceramics), or soil discoloration that might indicate the presence of a cultural midden. Project site characteristics and survey conditions were recorded using a field notebook and digital camera. Copies of the digital photographs are on file with Rincon's Santa Barbara office.

The project site was surveyed in 10-meter parallel transects to identify any potential cultural resources. The project site is largely comprised of fallow, non-native grassland (Attachment A: Figure 7). Much of the project site was heavily disturbed by rodent burrows (Attachment A: Figure 8 and Figure 9), and the majority of surface visibility was due to these burrows. The resulting ground surface visibility was approximately 15 to 50 percent across the project site. Other disturbances observed within the project site consisted of modern electrical lines along the eastern and southern edge of the project site (Attachment A: Figure 10), a single concrete paver of unknown age (Attachment A: Figure 11), and a modern horseshoe game pit within the northern edge of the project site (Attachment A: Figure 7). Soils consisted of light brown (10YR 7/2) sand with pieces of unmodified, naturally-occurring shale, sandstone, and other sedimentary materials measuring 1 to 3 cm in size throughout the project site (Attachment A: Figure 8). Exposed subsurface soils observed within rodent burrows are consistent with surface soils throughout the project site.

No previously unrecorded prehistoric or historic-period resources were identified during the current Phase 1 survey of the project site.

Findings and Recommendations

Historic aerials indicate the majority of the project site has been previously disturbed by agricultural use as far back as 1954 (NETR 2021; UCSB 2021). The Phase 1 survey of the project site observed disturbance throughout the project site and was negative for both prehistoric and historic-period cultural resources. In addition, the CCIC record search indicated no previously recorded cultural resources are located within the project site and 0.5-mile buffer.

The potential for identifying unknown archaeological resources within the project site, given the reliable surface and subsurface visibility conditions during the Phase 1 survey and the negative results of the CCIC records search, is low. As such, Rincon recommends a finding **of less than significant impact to historical and archaeological resources with mitigation incorporated** under CEQA. The measures provided below are recommended in the unlikely event of the unanticipated discovery of cultural resources or human remains during project construction.

Unanticipated Discovery of Cultural Resources

If cultural resources are unexpectedly encountered during ground-disturbing activities, work in the immediate area must halt and an archaeologist meeting the Secretary of the Interior's Professional

Qualifications Standards for archaeology (National Park Service [NPS] 1983) must be contacted immediately to evaluate the find. If the resources are prehistoric, a Native American representative must also be contacted to participate in the evaluation of the find. If the discovery proves to be significant under CEQA, additional work such as data recovery excavation may be warranted.

Unanticipated Discovery of Human Remains

If human remains are unexpectedly found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the county coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the county coroner must be notified immediately. If the human remains are determined to be prehistoric, the coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a most likely descendant (MLD). The MLD shall complete the inspection of the site and make recommendations to the landowner within 48 hours of being granted access. With adherence to existing regulations regarding the treatment of human remains, Rincon recommends a finding of **less than significant impact to human remains** under CEQA.

Records Search

On November 12, 2020, Dustin Merrick requested a search of the California Historical Resources Information System at the Central Coastal Information Center (CCIC) located at the University of California, Santa Barbara. The search was conducted to identify any previously recorded cultural resources (prehistoric or historic-period), as well as previously conducted cultural resources studies within a 0.5-mile radius of the project site. The records search also included a review of the National Register of Historic Places, the California Register of Historical Resources (CRHR), the California State Historic Resources Inventory list, and all available historical maps and aerial photographs. Results of the record search are in Attachment B

No previously recorded cultural resources are within the project site or within the 0.5-mile buffer of the project site.

Eight previously conducted cultural resources studies were identified within the 0.5-mile radius of the current project site. One of these eight previous studies, one (SR-00288), encompassed the project site. Study SR-00288, an archaeological evaluation of the Mission Hills Interceptor and Pumping Station Project (Spanne 1978), conducted a 45 square-mile records search that encompassed the City of Lompoc, the eastern-most portion of the Lompoc Valley, the Purisima Hills, and the Lompoc Hills. That records search covered the current project site. The previous study, however, only actually surveyed two pumping stations, totaling approximately 12 acres, and nine miles of wastewater pipeline somewhere within the 45 square-mile area. It is not known if any of the areas surveyed by Wilcoxon (1978) were within the current project site.

Sacred Lands Search/Native American Outreach

Rincon Archaeologist Dustin Merrick contacted the Native American Heritage Commission (NAHC) on November 12, 2020, to request a Sacred Lands File search of the project site. The NAHC responded on November 20, 2020, and stated the “results were negative”, indicating no tribal heritage resources are noted in the project site vicinity. As part of the informal outreach effort, nine

known local Native American contacts with potential to have knowledge of the project site were contacted either by email or phone call on January 7, 2021.

- Julie Tumamait-Stenslie, Barbareño/Ventureño Band of Mission Indians
- Patrick Tumamait, Barbareño/Ventureño Band of Mission Indians
- Raudel Banuelos, Barbareño/Ventureño Band of Mission Indians
- Eleanor Arrellanes, Barbareño/Ventureño Band of Mission Indians
- Julio Quair, Chumash Council of Bakersfield
- Mariza Sullivan, Coastal Band of the Chumash Nation
- Fred Collins, Northern Chumash Tribal Council
- Mark Vigil, San Luis Obispo County Chumash Council
- Freddie Romero, Santa Ynez Band of Chumash Indians

Patrick Tumamait of the Barbareño/Ventureño Band of Mission Indians responded on January 7, 2021 stating that he had no concerns with the project.

Fred Collins of the Northern Chumash Tribal Council responded on January 8, 2021 stating that the Northern Chumash Tribal Council had reviewed the project and did not have any cultural resource comments.

As of January 13, 2021, Rincon had not received any additional responses. All correspondence can be found in Attachment C.

Please do not hesitate to contact Rincon with any questions regarding this Negative Phase 1 Archaeological Resources Report.

Sincerely,

Rincon Consultants, Inc.

Christopher Duran, MA, RPA
Principal

Dustin Merrick, BA
Associate Archaeologist

Ken Victorino, MA, RPA
Senior Principal Investigator

Attachments

Attachment A Figures

Attachment B Record Search Results

Attachment C Native American Outreach

References

Nationwide Environmental Title Research (NETR) Online

2019 "1025/1035 West Central Avenue" Historic Aerials [photographic database]. https://www.historicaerials.com/viewer accessed January 5, 2021

Spanne, Laurence

1978 Archaeological Evaluation of the Mission Hills Interceptor and Pumping Station Project, Santa Barbara County, California

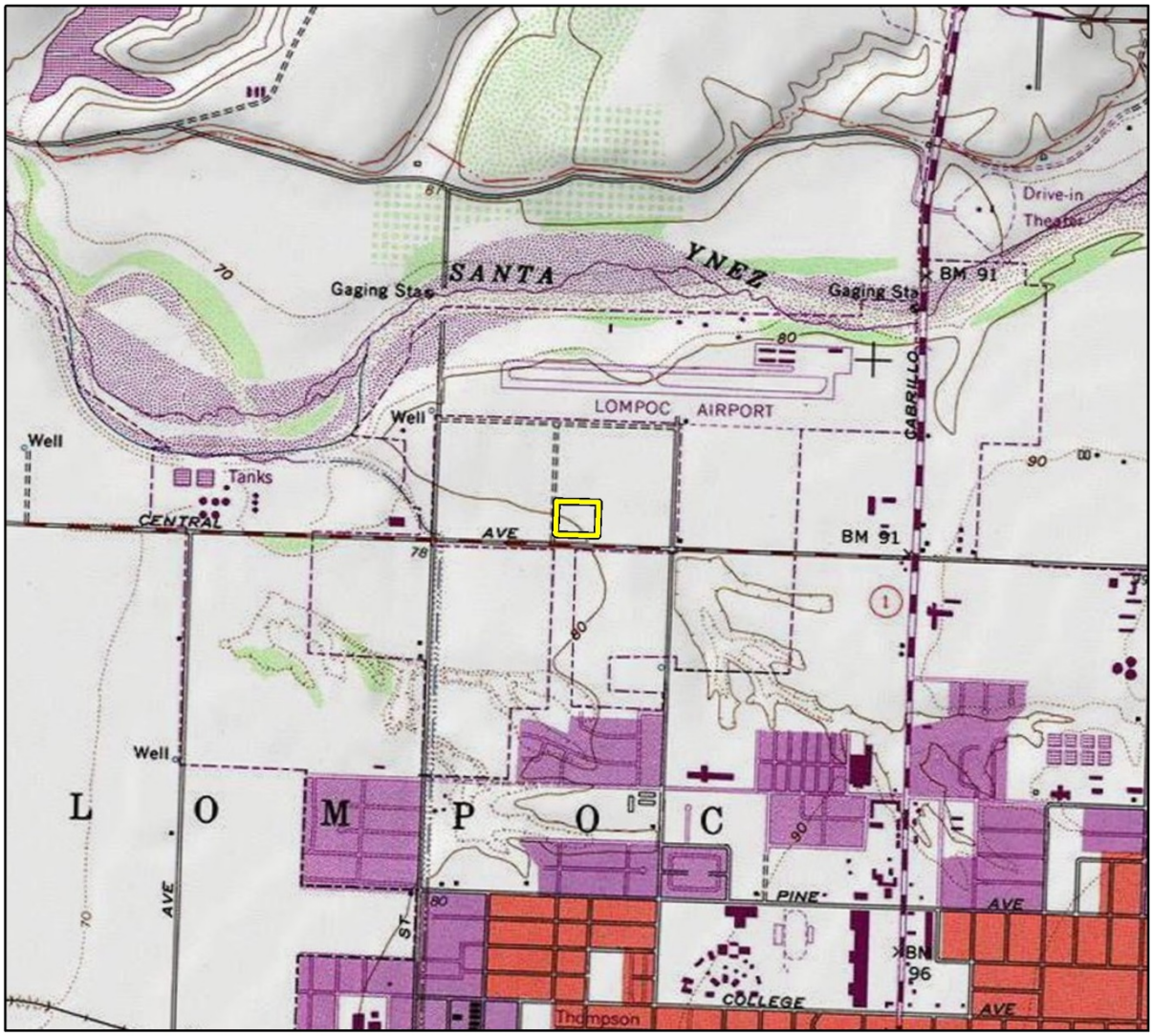
University of California Santa Barbara (UCSB)

2019 "Flight ID: BTM-1954 Frame: 2K-89" Frame Finder [online map database]. University of California, Santa Barbara Library. Santa Barbara, CA. http://mil.library.ucsb.edu/ap_indexes/FrameFinder/ accessed January 5, 2021

Attachment A

Figures

Figure 1 Project Location Map



Imagery provided by National Geographic Society, Esri and its licensors © 2020. Lompoc Quadrangle. T07N R34W S28. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may havechanged since the original topographic map was assembled.

Project Location

0 1,000 2,000 Feet

N

CRFig 1 Proj Locn Map

Figure 2 Project Site

Imagery provided by Microsoft Bing and its licensors © 2020.

Figure 3 Proposed Site Plan

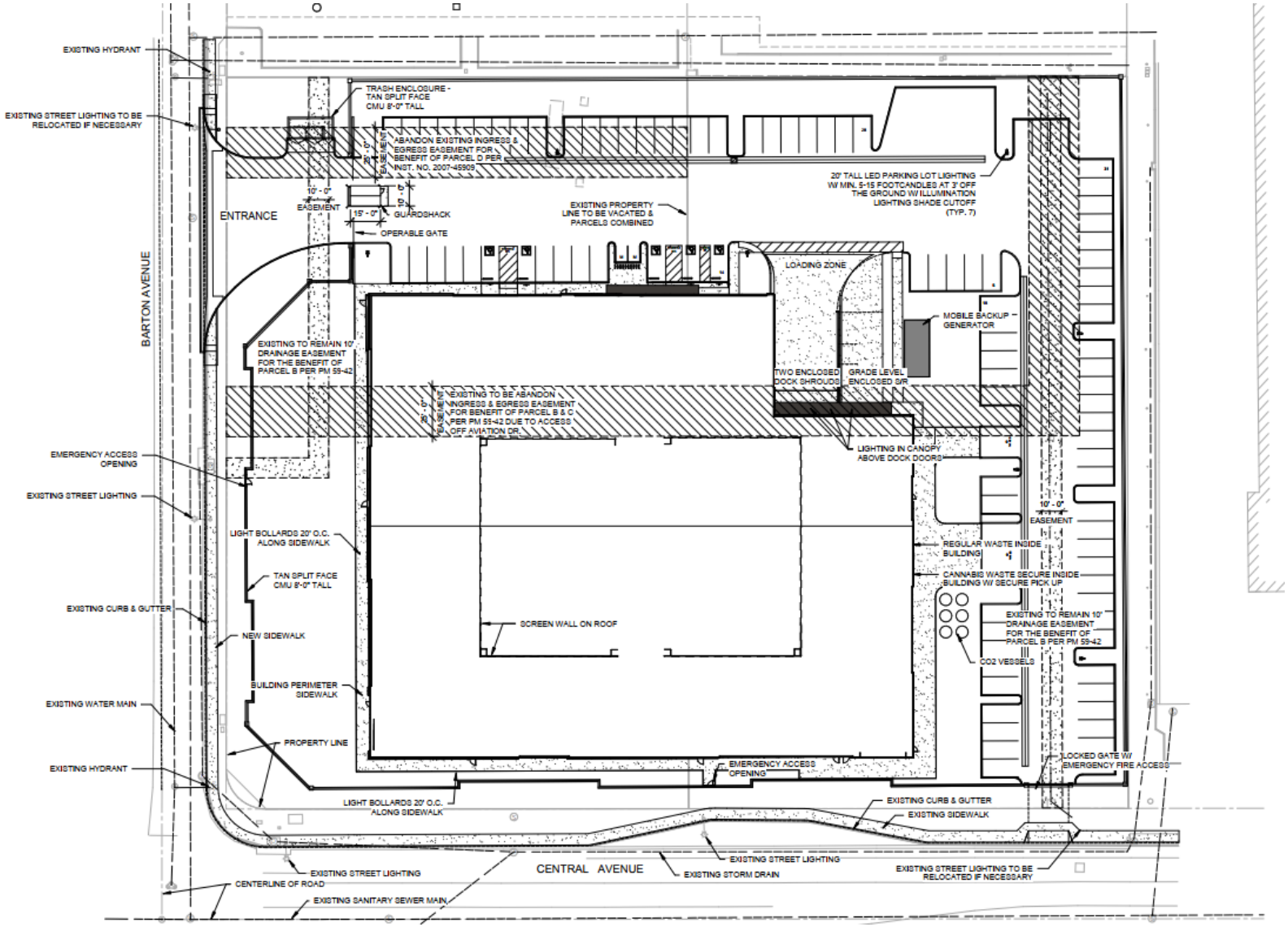


Figure 4 Exterior Elevations of Proposed Building

Figure 5 Proposed Grading and Drainage Plan

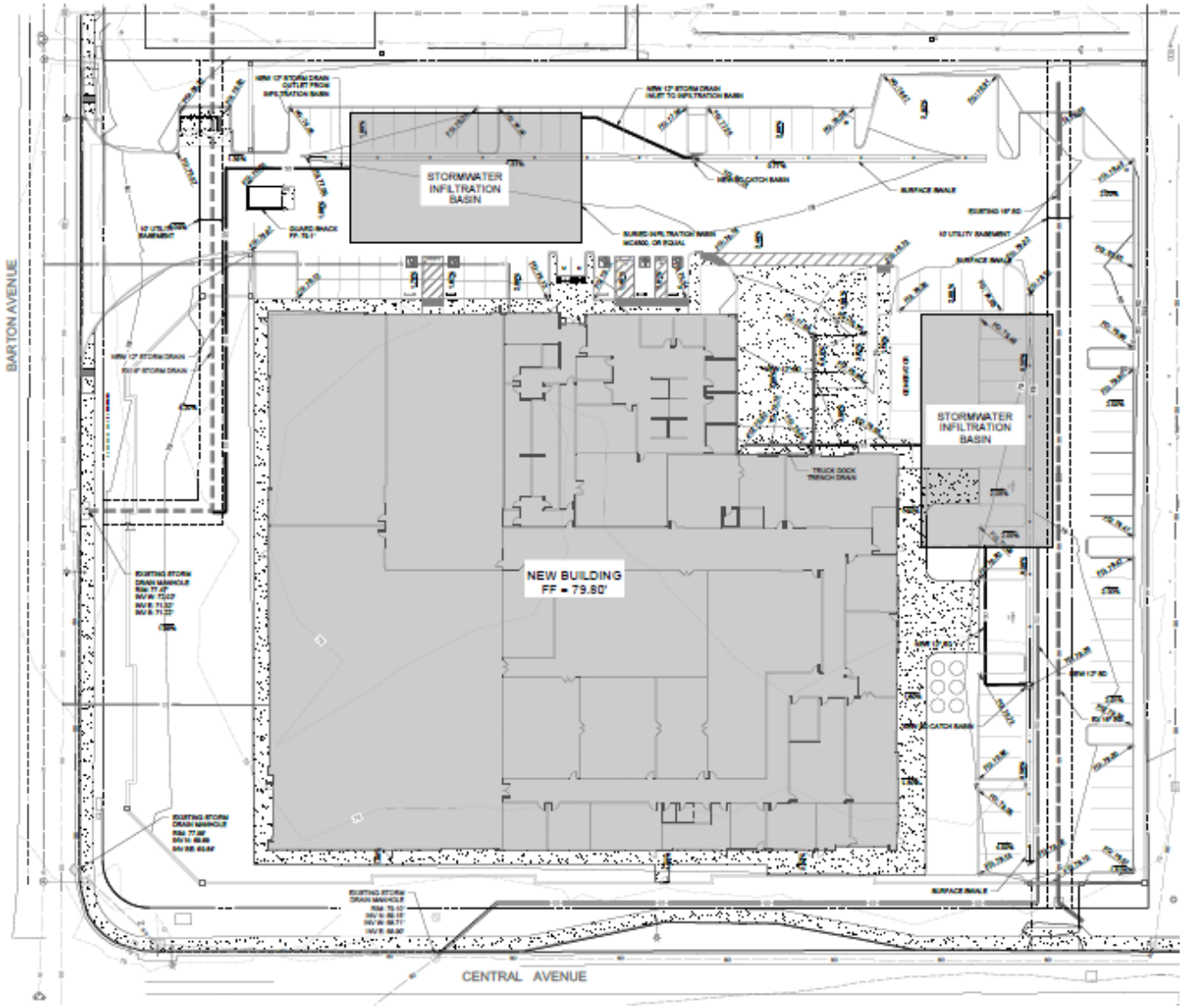


Figure 6 Proposed Landscape Plan

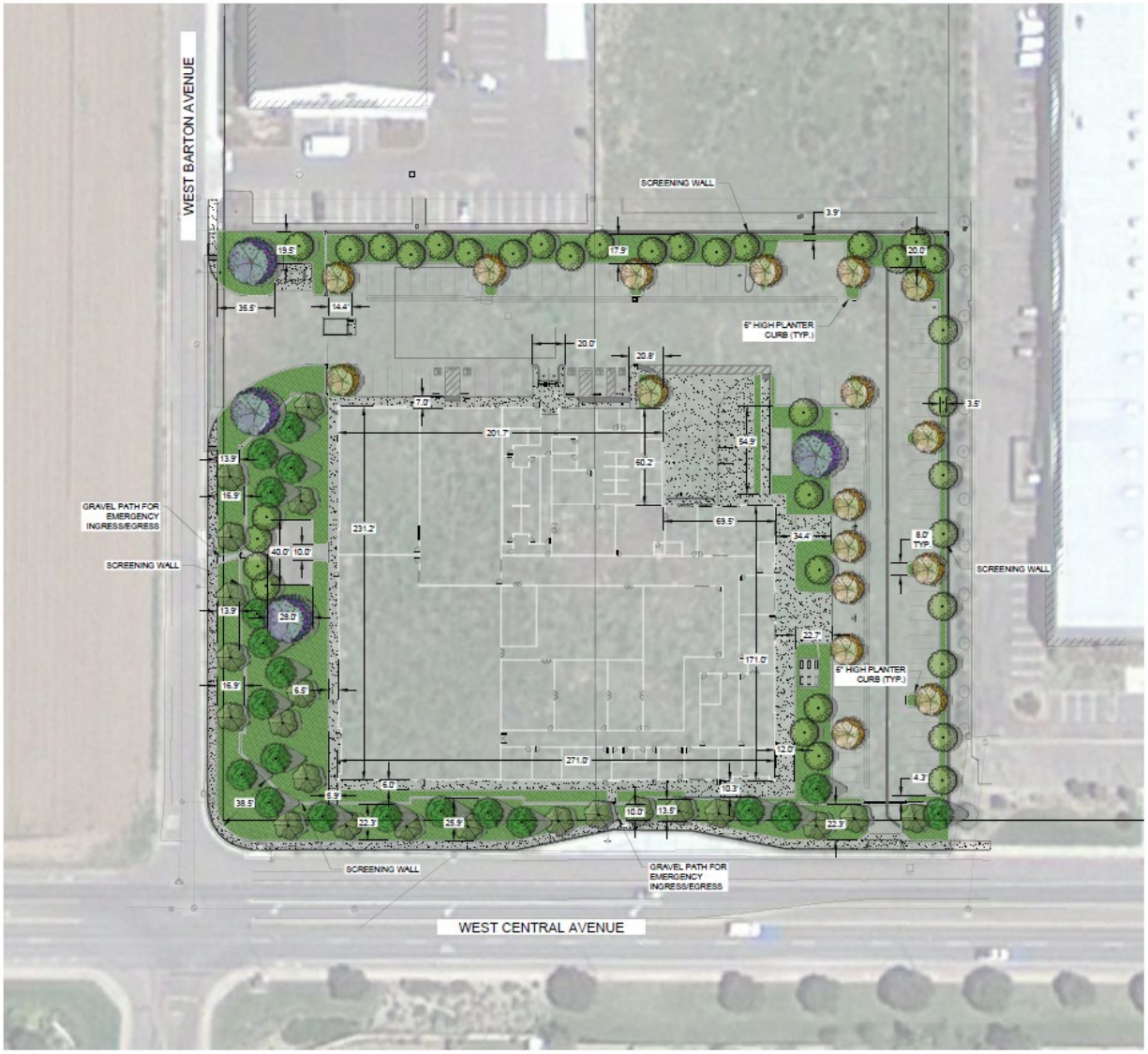


Figure 7 Center of Project Site, Facing Northeast

Figure 8 Rodent Burrows, Facing Northwest

Figure 9 Center of Project Site, Facing East

Figure 10 Electrical Lines Along Eastern Edge of Project Site, Facing South

Figure 11 Concrete Paver, Facing Northeast

Attachment B

Record Search Results

California
Archaeological
Inventory

SAN LUIS OBISPO AND
SANTA BARBARA COUNTIES

Central Coast Information Center
Department of Anthropology
University of California
Santa Barbara, CA 93106-3210
PHONE (805)-893-2474
FAX (805)-893-8707
EMAIL ccic@anth.ucsb.edu

12/7/2020

Dustin Merrick
Rincon Consultants, Inc.
180 N. Ashwood Avenue
Ventura, CA 93003

Re: Organic Liberty (20-09428)

The Central Coast Information Center received your record search request for the project area referenced above, located on the Lompoc USGS 7.5' quad(s). The following reflects the results of the records search for the project area and a one-half mile radius:

As indicated on the data request form, the locations of reports and resources are provided in the following format: ■ custom GIS maps ☐ shapefiles ☐ hand-drawn maps ☐ none

Resources within project area: 0	N/A
Resources within ½ mile radius: 0	N/A
Reports within project area: 1	SR-00288
Reports within ½ mile radius: 7	See list and maps

Resource Database Printout (list):	☐ enclosed	☐ not requested	■ nothing listed
Resource Database Printout (details):	☐ enclosed	■ not requested	☐ nothing listed
Resource Digital Database Records:	☐ enclosed	■ not requested	☐ nothing listed
Report Database Printout (list):	■ enclosed	☐ not requested	☐ nothing listed
Report Database Printout (details):	☐ enclosed	■ not requested	☐ nothing listed
Report Digital Database Records:	☐ enclosed	■ not requested	☐ nothing listed
Resource Record Copies:	☐ enclosed	☐ not requested	■ nothing listed
Report Copies:	■ enclosed	☐ not requested	☐ nothing listed
OHP Historic Properties Directory:	☐ enclosed	☐ not requested	■ nothing listed
Archaeological Determinations of Eligibility:	☐ enclosed	☐ not requested	■ nothing listed

The following sources of information are available at **http://ohp.parks.ca.gov/?page_id=28065**. Some of these resources used to be available through the CHRIS but because they are now online, they can be accessed directly. The Office of Historic Preservation makes no guarantees about the availability, completeness, or accuracy of the information provided through the sources listed below.

California State Lands Commission Shipwreck Database	*Caltrans Historic Bridge Inventory*
U.S. Geological Survey Historic Topographic Maps	*Rancho Plat Maps*
National Park Service National Register of Historic Places Nominations	*Natural Resource Conservation Service Soil Survey Maps*
US Bureau of Land Management General Land Office Records	*California Historical Landmarks Listing (by county)*
Five Views: An Ethnic Historic Site Survey for California (1988)	*Historical Soil Survey Maps*

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of California Historical Resources Information System (CHRIS) data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Thank you for using the CHRIS.

Sincerely,

Matthew V.C. LoBiondo

Matthew V.C. LoBiondo
Assistant Coordinator

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SR-00273		1977	Craig, S., Perez, M., and Glassow, M.	Evaluation of the Significance of Archaeological Resources in the Vicinity of the Mouth of San Miguelito Canyon, Lompoc, California.		42-000220
SR-00282		1984	Peterson, R., Moore, J., and Colten, R.	Phase I Archaeological Survey of a Proposed Powerline Right-of-Way and Two Alternative Pipeline Routes, Lompoc, California		42-000219, 42-001824
SR-00288		1978	Spanne, Laurence	Archaeological Evaluation of the Mission Hills Interceptor and Pumping Station Project, Santa Barbara County, California	None Given	42-001767
SR-00292		1986	Spanne, L.	Archaeological Survey of the LOM-369 Subdivision Located Northwest of the Intersection of North Avenue and V Street, City of Lompoc, County of Santa Barbara, California		42-000219, 42-000521
SR-01256		1984	Erlandson, J.	A Summary of Phase I Cultural Resource Investigations Conducted in Support of the Proposed Union Oil Santa Maria Basin Pipeline, Santa Barbara County, California	Office for Public Archaeology at UCSB	42-000912, 42-000913, 42-000914, 42-001762, 42-001768, 42-001769, 42-001770, 42-001771
SR-02216		1997	Anderson, K. and SAIC	Phase 1 Cultural Resources Investigation Lompoc Airport Runway Expansion Project		
SR-03869	Voided - V-227	1988	Ferraro, David, Kathleen Bergin, Jerry Moore, Sandra Day-Moriarty,, and Jeffrey Parsons	Survey, Testing, and Evaluation of Sites for the STS Power Plant Natural Gas Pipeline Project, Santa Barbara County, California		42-000219, 42-000534, 42-000539, 42-000549, 42-000670, 42-000678, 42-000680, 42-000921, 42-001145, 42-001908, 42-002146, 42-002147, 42-002148, 42-002154
SR-04293		2007	Houck, K. and Gust, S.	Cultural Resources Assessment for Two Parcels Along Aviation Drive, City of Lompoc, California	Cogstone Resource Management	

Organic Liberty (20-09428)

Customer Name: Rincon Consultants, Inc. - Dustin Merrick
Project Location: Lompoc
Report Map 1 of 4

Central Coast Information Center
Department of Anthropology
University of California
Santa Barbara, CA 93106-3210
(805) 893-2474
(805) 893-8707 FAX

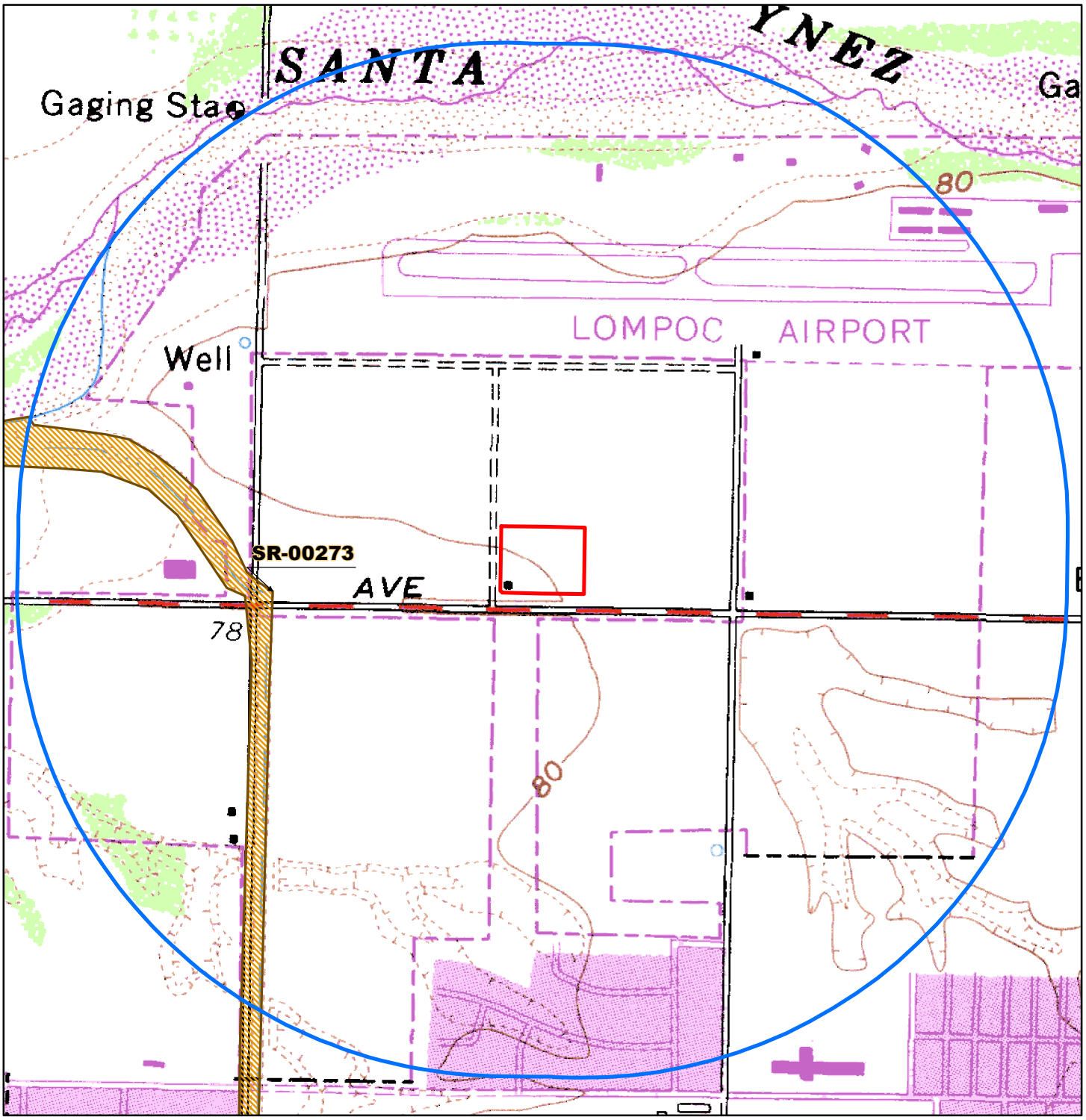
N

0 87.5 175 350 525 700 Meters

Legend

Project Location

One-half Mile Radius



Organic Liberty (20-09428)

Customer Name: Rincon Consultants, Inc. - Dustin Merrick
Project Location: Lompoc
Report Map 2 of 4

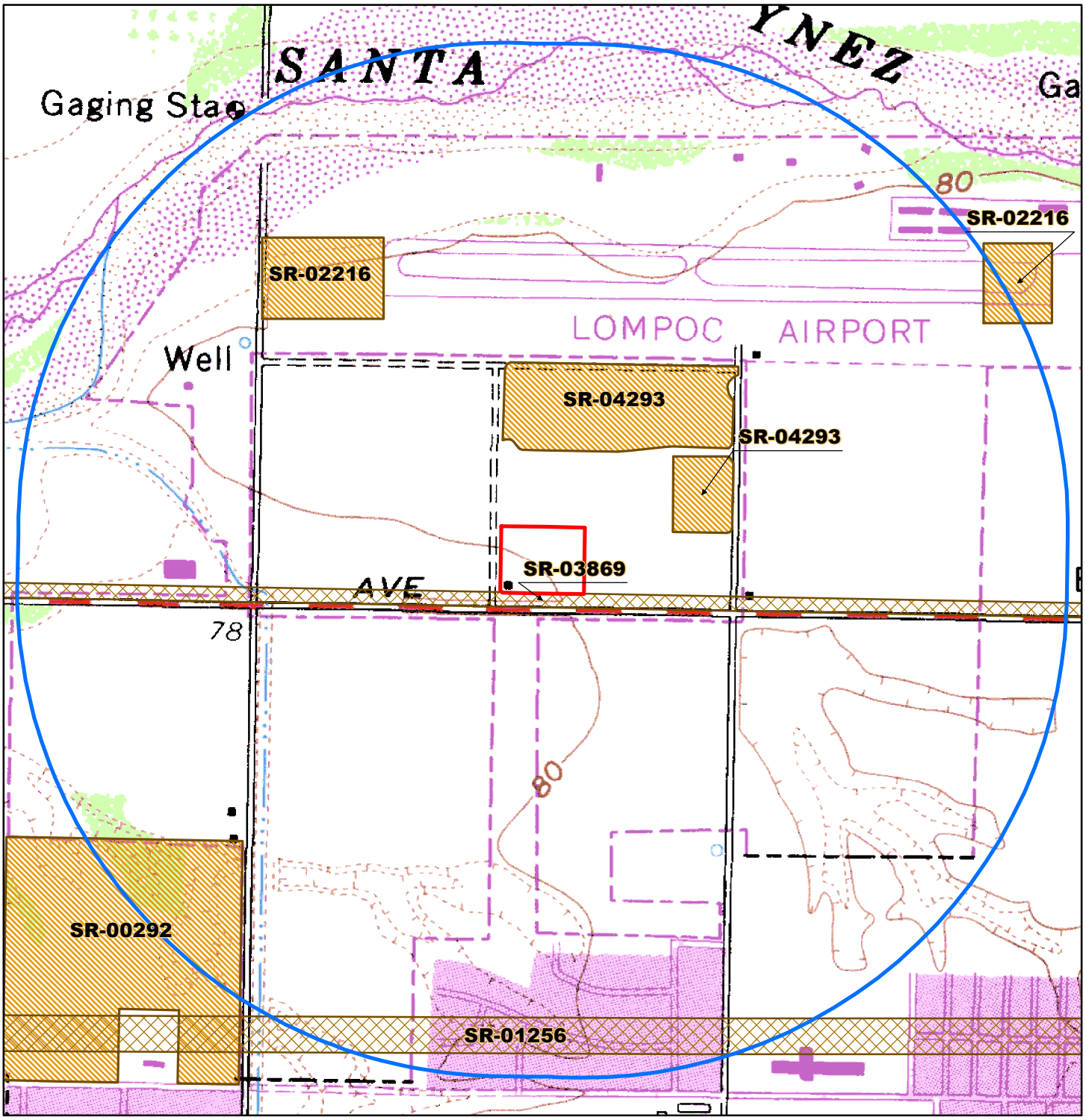
Central Coast Information Center
Department of Anthropology
University of California
Santa Barbara, CA 93106-3210
(805) 893-2474
(805) 893-8707 FAX

Legend

Project Location

One-half Mile Radius

0 87.5 175 350 525 700 Meters



Organic Liberty (20-09428)

Customer Name: Rincon Consultants, Inc. - Dustin Merrick
Project Location: Lompoc
Report Map 3 of 4

Central Coast Information Center
Department of Anthropology
University of California
Santa Barbara, CA 93106-3210
(805) 893-2474
(805) 893-8707 FAX

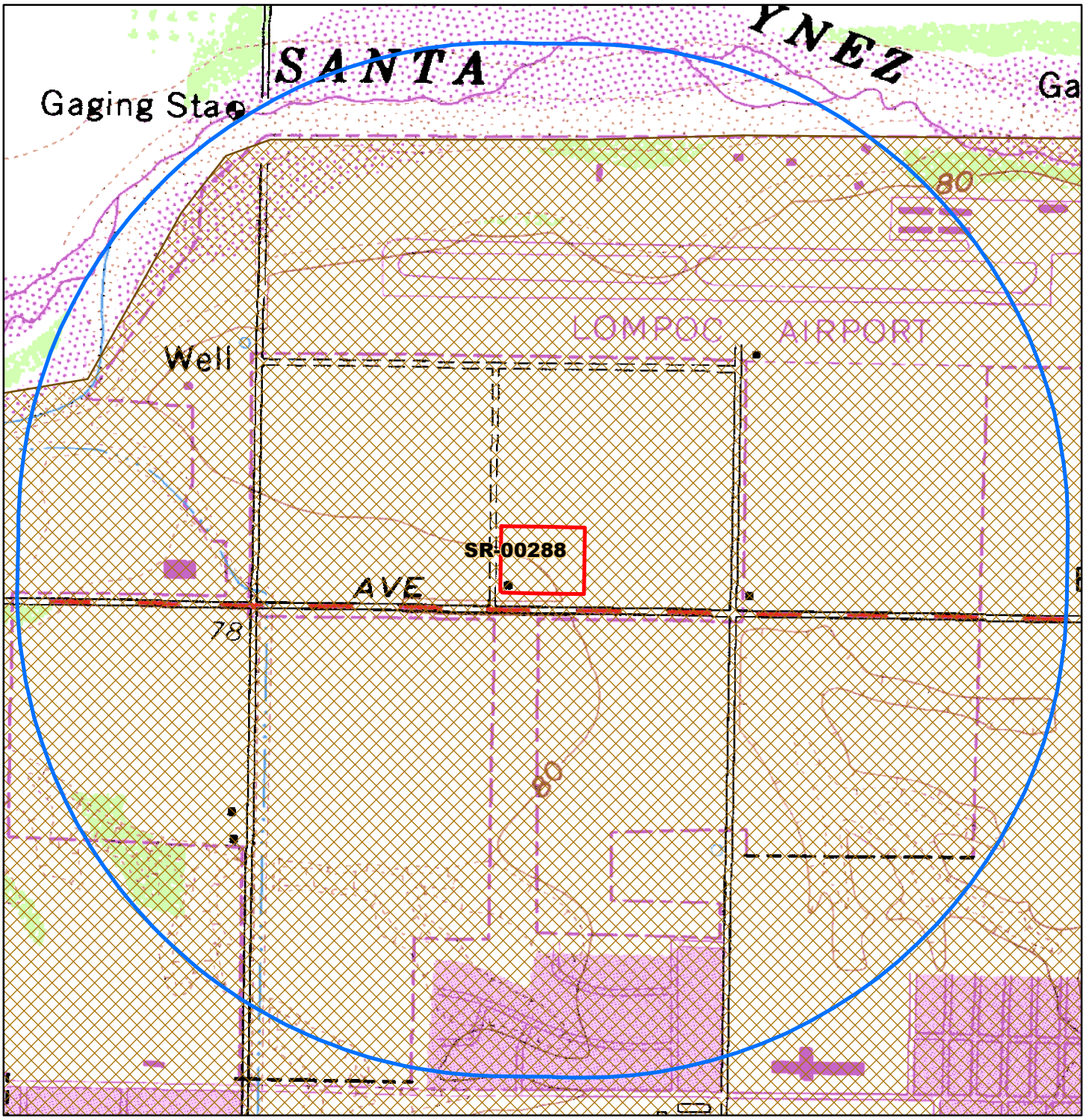
Legend

Project Location

One-half Mile Radius

N

0 87.5 175 350 525 700 Meters



Organic Liberty (20-09428)

Customer Name: Rincon Consultants, Inc. - Dustin Merrick
Project Location: Lompoc
Report Map 4 of 4

Central Coast Information Center
Department of Anthropology
University of California
Santa Barbara, CA 93106-3210
(805) 893-2474
(805) 893-8707 FAX

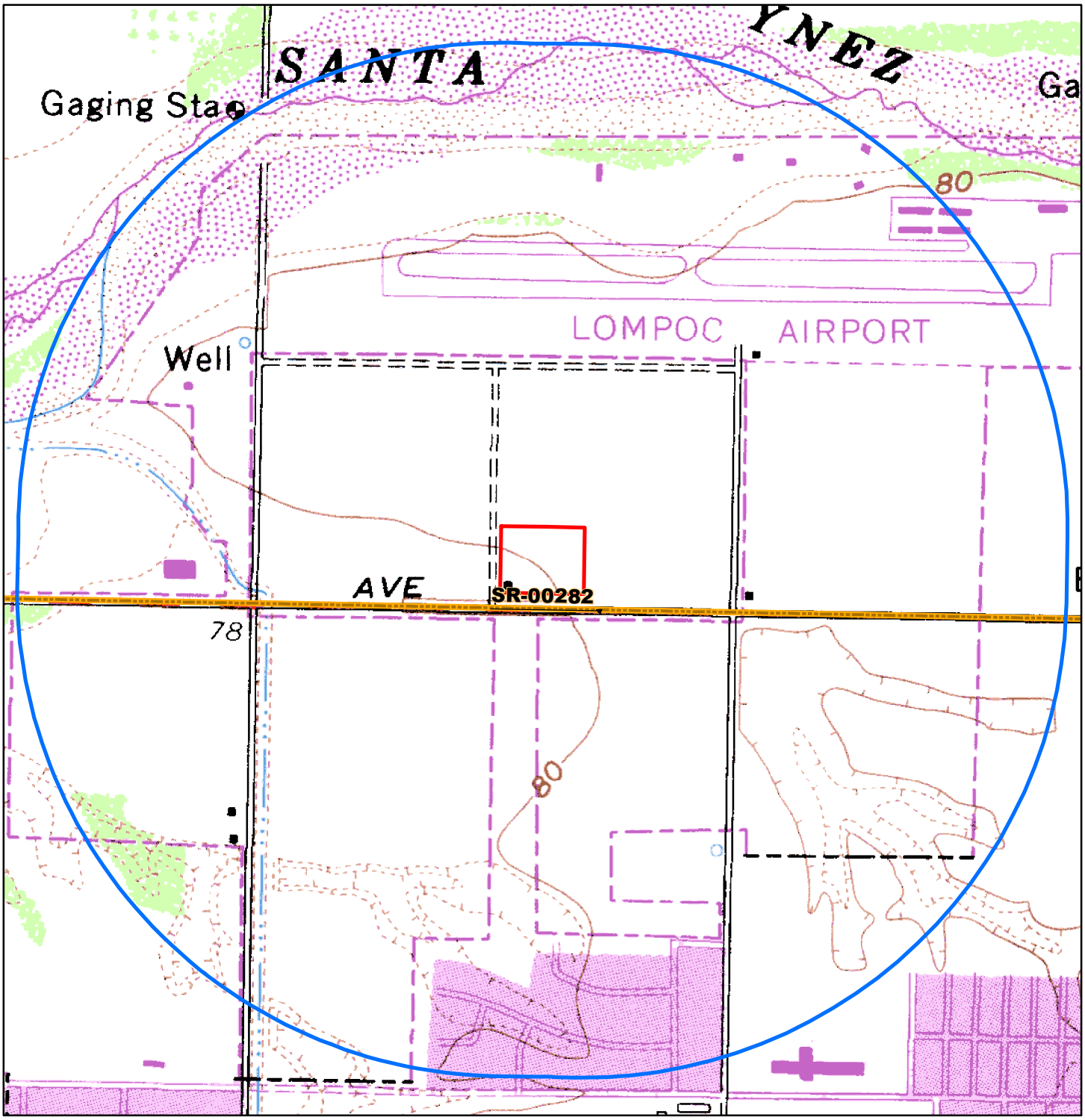
Legend

Project Location

One-half Mile Radius

N

0 87.5 175 350 525 700 Meters



Organic Liberty (20-09428)

Customer Name: Rincon Consultants, Inc. - Dustin Merrick
Project Location: Lompoc
Negative Resources Map 1 of 1

Central Coast Information Center
Department of Anthropology
University of California
Santa Barbara, CA 93106-3210
(805) 893-2474
(805) 893-8707 FAX

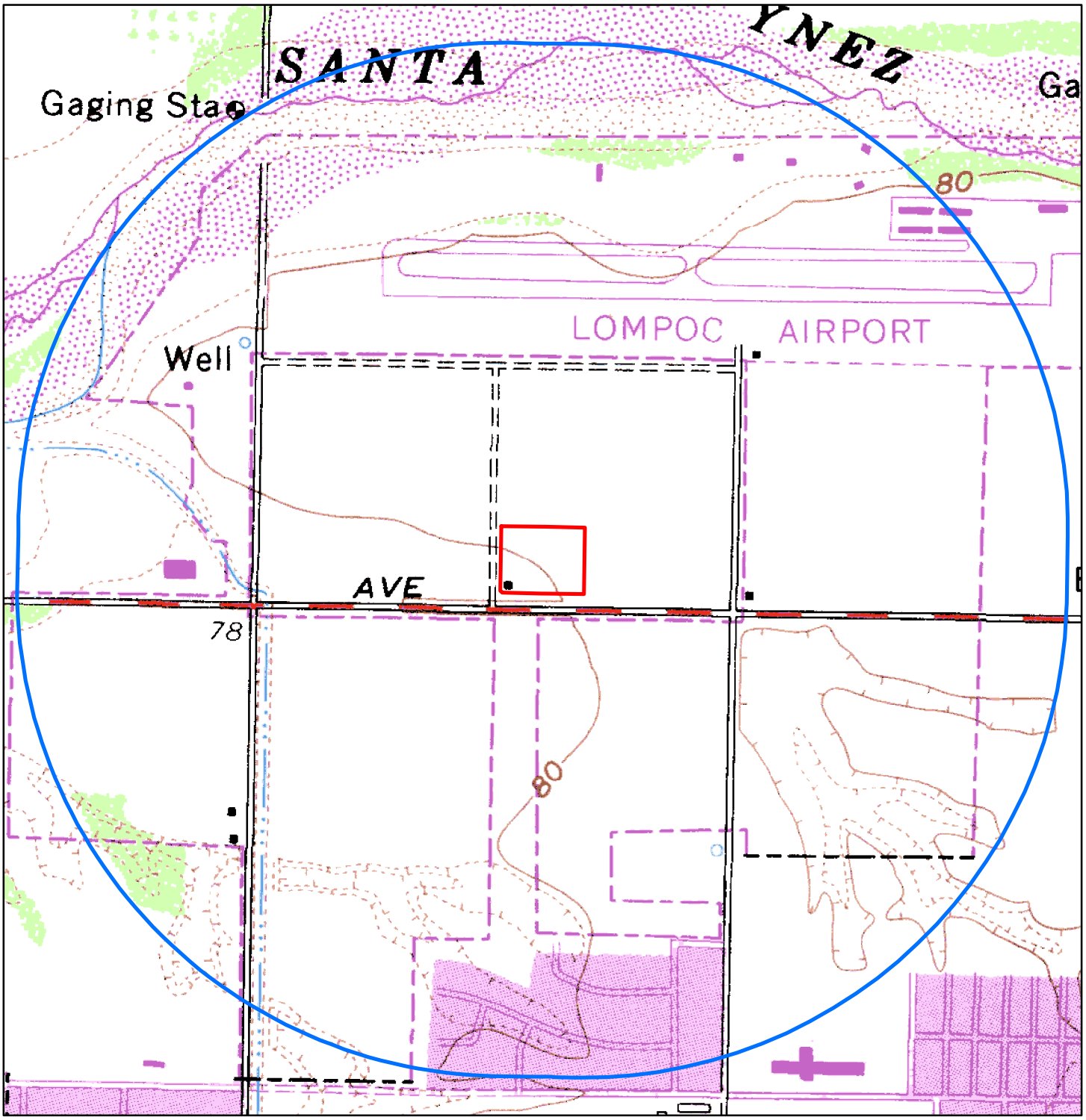
N

0 87.5 175 350 525 700
Meters

Legend

Project Location

One-half Mile Radius



Attachment C

Native American Outreach

NATIVE AMERICAN HERITAGE COMMISSION

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

November 20, 2020

Dustin Merrick, BA, MA, Archaeologist, Field Director
Rincon Consultants, Inc.

Via Email to: dmerrick@rinconconsultants.com

Re: Organic Liberty Cannabis Growing and Processing Facility Project, Santa Barbara County

Dear Mr. Merrick:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Sarah.Fonseca@nahc.ca.gov.

Sincerely,

Sarah Fonseca
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Santa Barbara County
11/20/2020

Barbareno/ Ventureno Band of Mission Indians
Patrick Tumamait,
992 El Camino Corto
Ojai, CA, 93023
Phone: (805) 216 - 1253
Chumash

Barbareno/Ventureno Band of Mission Indians
Julie Tumamait-Stenslie, Chairperson
365 North Poli Ave
Ojai, CA, 93023
Phone: (805) 646 - 6214
jtumamait@hotmail.com
Chumash

Barbareno/ Ventureno Band of Mission Indians
Eleanor Arrellanes,
P. O. Box 5687
Ventura, CA, 93005
Phone: (805) 701 - 3246
Chumash

Barbareno/ Ventureno Band of Mission Indians
Raudel Banuelos,
331 Mira Flores
Camarillo, CA, 93012
Phone: (805) 427 - 0015
Chumash

Chumash Council of Bakersfield
Julio Quair, Chairperson
729 Texas Street
Bakersfield, CA, 93307
Phone: (661) 322 - 0121
chumashtribe@sbcglobal.net
Chumash

Coastal Band of the Chumash Nation
Mariza Sullivan, Chairperson
P. O. Box 4464
Santa Barbara, CA, 93140
Phone: (805) 665 - 0486
cbcntribalchair@gmail.com
Chumash

Northern Chumash Tribal Council
Fred Collins, Spokesperson
P.O. Box 6533
Los Osos, CA, 93412
Phone: (805) 801 - 0347
fcollins@northernchumash.org
Chumash

San Luis Obispo County Chumash Council
Mark Vigil, Chief
1030 Ritchie Road
Grover Beach, CA, 93433
Phone: (805) 481 - 2461
Fax: (805) 474-4729
Chumash

Santa Ynez Band of Chumash Indians
Kenneth Kahn, Chairperson
P.O. Box 517
Santa Ynez, CA, 93460
Phone: (805) 688 - 7997
Fax: (805) 686-9578
kkahn@santaynezchumash.org
Chumash

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Organic Liberty Cannabis Growing and Processing Facility Project, Santa Barbara County.

Elaine Foster

From: Elaine Foster
Sent: Thursday, January 7, 2021 11:23 AM
To: fcollins@northernchumash.org
Subject: Two Cannabis Projects in Lompoc, CA
Attachments: To Collins_Mustang.pdf; To Collins_Organic Liberty.pdf

Hello,
Please see the attached letters regarding two cannabis facility projects in Lompoc, CA. Feel free to reach out to Dustin Merrick, the listed contact on both letters. Thank you very much.
Cheers,

Elaine Foster, Archaeologist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
213-788-4842 x3016
510-379-7006 Direct
rinconconsultants.com

Please consider the environment before printing this email.

Elaine Foster

From: Fred Collins <fcollins@northernchumash.org>
Sent: Friday, January 8, 2021 5:49 AM
To: Elaine Foster; Dustin Merrick
Subject: [EXT] RE: Two Cannabis Projects in Lompoc, CA

Hello Elaine,

NCTC has reviewed the proposed projects and have no additional cultural resources comments, thank you.

Fred Collins
NCTC

From: Elaine Foster [mailto:efoster@rinconconsultants.com]
Sent: Thursday, January 7, 2021 11:23 AM
To: fcollins@northernchumash.org
Subject: Two Cannabis Projects in Lompoc, CA

Hello,
Please see the attached letters regarding two cannabis facility projects in Lompoc, CA. Feel free to reach out to Dustin Merrick, the listed contact on both letters. Thank you very much.
Cheers,

Elaine Foster, Archaeologist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
213-788-4842 x3016
510-379-7006 Direct
rinconconsultants.com

Elaine Foster

From: Elaine Foster
Sent: Thursday, January 7, 2021 11:26 AM
To: kkahn@santaynezchumash.org
Subject: Two Cannabis Projects in Lompoc, CA
Attachments: To Kahn_Organic Liberty.pdf; To Kahn_Mustang.pdf

Hello,
Please see the attached letters regarding two cannabis facility projects in Lompoc, CA. Feel free to reach out to Dustin Merrick, the listed contact on both letters. Thank you very much.

Cheers,

Elaine Foster, Archaeologist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
213-788-4842 x3016
510-379-7006 Direct
rinconconsultants.com

Please consider the environment before printing this email.

Elaine Foster

From: Elaine Foster
Sent: Thursday, January 7, 2021 11:18 AM
To: chumashtribe@sbcglobal.net
Subject: Two Cannabis Projects in Lompoc, CA
Attachments: To Quair_Mustang.pdf; To Quair_Organic Liberty.pdf

Hello,
Please see the attached letters regarding two cannabis facility projects in Lompoc, CA. Feel free to reach out to Dustin Merrick, the listed contact in both letters. Thank you very much.

Cheers,

Elaine Foster, Archaeologist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
213-788-4842 x3016
510-379-7006 Direct
rinconconsultants.com

Please consider the environment before printing this email.

Elaine Foster

From: Microsoft Outlook
To: chumashtribe@sbcglobal.net
Sent: Thursday, January 7, 2021 11:28 AM
Subject: Undeliverable: FW: Two Cannabis Projects in Lompoc, CA

flpd571.prodigy.net rejected your message to the following email addresses:

chumashtribe@sbcglobal.net (chumashtribe@sbcglobal.net)
There's a problem with the recipient's mailbox. Please try resending your message. If the problem continues, please contact your email admin.

flpd571.prodigy.net gave this error:
<chumashtribe@sbcglobal.net>... Addressee unknown, relay=[40.107.69.64]

Diagnostic information for administrators:

Generating server: BY5PR12MB3873.namprd12.prod.outlook.com
Total retry attempts: 1

chumashtribe@sbcglobal.net
flpd571.prodigy.net
Remote Server returned '550 5.2.1 <chumashtribe@sbcglobal.net>... Addressee unknown, relay=[40.107.69.64]'

Original message headers: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ARC-Seal: i=1; a=rsa-sha256; s=arcselector9901; d=microsoft.com; cv=none;

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From: Elaine Foster <efoster@rinconconsultants.com>
To: "chumashtribe@sbcglobal.net" <chumashtribe@sbcglobal.net>
Subject: FW: Two Cannabis Projects in Lompoc, CA
Thread-Topic: Two Cannabis Projects in Lompoc, CA
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Elaine Foster

From: Elaine Foster
Sent: Thursday, January 7, 2021 11:20 AM
To: cbcntribalchair@gmail.com
Subject: Two Cannabis Projects in Lompoc, CA
Attachments: To Sullivan_Organic Liberty.pdf; To Sullivan_Mustang.pdf

Hello,
Please see the attached letters regarding two cannabis facility projects in Lompoc, CA. Feel free to reach out to Dustin Merrick, the listed contact on both letters. Thank you very much.

Cheers,

Elaine Foster, Archaeologist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
213-788-4842 x3016
510-379-7006 Direct
rinconconsultants.com

Please consider the environment before printing this email.

Elaine Foster

From: Elaine Foster
Sent: Thursday, January 7, 2021 11:15 AM
To: natchumash@yahoo.com
Subject: Two Cannabis Projects in Lompoc, CA
Attachments: To Tumamait_Organic Liberty.pdf; To Tumamait_Mustang.pdf

Hello,
Please see the attached letters regarding two cannabis facility projects in Lompoc, CA. Feel free to reach out to Dustin Merrick, the listed contact in both letters. Thank you very much.

Cheers,

Elaine Foster, Archaeologist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
213-788-4842 x3016
510-379-7006 Direct
rinconconsultants.com

Please consider the environment before printing this email.

Elaine Foster

From: natchumash@yahoo.com
Sent: Thursday, January 7, 2021 1:56 PM
To: Elaine Foster
Subject: [EXT] Lompoc project

Hi Elaine, I do not have any concerns
Thank you.

Elaine Foster

From: Elaine Foster
Sent: Thursday, January 7, 2021 11:10 AM
To: jtumamait@hotmail.com
Subject: Two Cannabis Projects in Lompoc, CA
Attachments: To Tumamait-Stenslie_Organic Liberty.pdf; To Tumamait-Stenslie_Mustang.pdf

Hello,
Please see the attached letters regarding two cannabis facility projects in Lompoc, CA. Feel free to reach out to Dustin Merrick, the listed contact in the letters. Thank you very much.

Cheers,

Elaine Foster, Archaeologist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
213-788-4842 x3016
510-379-7006 Direct
rinconconsultants.com

Please consider the environment before printing this email.

Appendix D

Phase 1 Environmental Site Assessment

ORSWELL & KASMAN, INC.

316 West Foothill Boulevard ■ Monrovia, CA 91016
(626) 932-1800 ■ FAX (626) 932-1807 ■ www.orswell-kasman.com

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Vacant Land
1025 and 1035 West Central Avenue
Lompoc, California 93436

August 21, 2019

CLIENT:
Mr. Matthew Primm
Terra Firma Long Beach, LLC
1159 Diamond Street
San Diego, California 92109

PREPARED FOR:
Mr. Matthew Primm
Terra Firma Long Beach, LLC

PROJECT NUMBER:
P19177

PREPARED BY:

Martin A. Kasman
ASTM Environmental Professional

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1.0 SUMMARY

Our review of regulatory and historical records, a visual inspection of the site and surrounding area and an interview with the listing real estate agent has not identified any *recognized environmental conditions, historical recognized environmental conditions* or *controlled recognized environmental conditions* which are likely to impact the subject property. Although data failure occurred in the historical uses of the Property prior to 1937, it is unlikely the data failure will impact the ability to identify *recognized environmental conditions.* Based on the results of this assessment, no further environmental studies are recommended for the site.

2.0 INTRODUCTION

2.1 Purpose

The purpose of this Phase I Environmental Site Assessment is to determine if any *recognized environmental conditions, historical recognized environmental conditions* or *controlled recognized environmental conditions* exist on or near the subject property. As defined by ASTM Standard Practice E 1527-13, a *recognized environmental condition* is the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release into structures on the property or into the ground, groundwater, or surface water of the property. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

The ASTM Standard defines a *historical recognized environmental condition* as a condition which in the past would have been considered a *recognized environmental condition*, but which may or may not be considered a *recognized environmental condition* currently. If a past release of any hazardous substance or petroleum products has occurred in connection with the property and has been remediated, with such remediation accepted by the responsible regulatory agency, this condition shall be considered a *historical recognized environmental condition.*

The ASTM Standard defines a *controlled recognized environmental condition* as a condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

The ASTM Standard Practice E 1527-13 requires all obvious uses of the Property shall be identified at five year intervals from the present, back to the Property's first developed use, or back to 1940, whichever is earlier, using standard historical sources. Developed use includes agricultural uses or placement of fill dirt. Data failure occurs when these objectives are not met.

Our review of standard historical sources include aerial photographs, fire insurance maps, local street directories, and building department or assessor's property records. Our experience in performing Phase I Environmental Site Assessments since 1990 has determined that the other standard historical sources identified in the ASTM Standard Practice E 1527-13 are not reasonably obtainable or likely to be sufficiently useful, accurate, or complete in terms of satisfying the objectives.

2.2 Detailed Scope of Services

This report is based on a preliminary study into the past and current uses of the subject property and the surrounding area. The report includes a visual inspection of the property and adjacent sites, and a review of regulatory agency records, aerial photographs, and other historic record sources. Also included in this report are maps, diagrams, and photographs pertaining to this site.

2.3 Significant Assumptions

The information in this report is furnished in good faith and was obtained from sources and databases considered to be reliable; however, nothing in this report should be construed as a promise or guarantee that the subject property is free of environmental hazards. In many instances, this report relies on regulatory database information provided by federal, state and local governmental agencies. Although the database information used in this report consists of records that are updated on a regular basis, it may not reflect the actual current status of the case.

2.4 Limitations and Exceptions

This report was prepared in conformance to meet or exceed the scope and practice as set forth by the American Society for Testing & Materials (ASTM) Standard Practice E 1527-13, "Standard Practice of Environmental Site Assessments: Phase I Environmental Site Assessment Process." No tests were conducted, and no samples of air, water, soil or building materials were taken.

This report is limited in nature and should not be construed to be a characterization of environmental regulatory compliance or of any conditions above or below grade. The evaluations in this report are based on information provided by interviews, readily accessible regulatory and historical records and observations made during the site inspection. No independent verification of the information was obtained or performed by Orswell & Kasman, Inc.

Orswell & Kasman, Inc. prepared this report in a competent and professional manner in accordance with sound industry standards, practices and procedures. No warranty is provided regarding the actual site conditions described in this report beyond matters amenable to visual confirmation. We make no representation or warranty regarding the accuracy or reliability of information or documents provided by others and contained within this report.

2.5 Special Terms and Conditions

No special terms or conditions have been incorporated into the preparation of this report. There were also no limiting physical conditions such as rain or lack of electrical power that had a limiting effect on the site inspection.

2.6 User Reliance

This report is prepared for the express use of the client (or the client's designee), and its contents are considered to be privileged and confidential. Acceptance of this report constitutes an agreement by the client to assume full liability for information contained herein. This report is for the sole use and interpretation of the client and it is not to be reproduced or distributed to outside parties.

3.0 USER PROVIDED INFORMATION

3.1 Title Records

No recorded land title records were provided by the client for review.

3.2 Environmental Liens or Activity and Use Limitations

The client has not provided any information concerning environmental liens or activity and use limitations.

3.3 Specialized Knowledge

No specialized knowledge of *recognized environmental conditions, historical recognized environmental conditions* or *controlled recognized environmental conditions* in connection with the subject property has been provided by the client.

3.4 Commonly Known or Reasonably Ascertainable Information

The client has not provided any commonly known or reasonably ascertainable information within the local community about the subject property that is material to *recognized environmental conditions, historical recognized environmental conditions* or *controlled recognized environmental conditions* in connection with the site.

3.5 Valuation Reduction for Environmental Issues

No information has been provided by the client that indicates the subject property is being sold or purchased at a significantly reduced price due to outstanding environmental issues.

3.6 Owner, Property Manager, and Occupant Information

Information provided by the owner, property manager, and/or occupants of the site are included in this report under Section 7.0, Interviews.

3.7 Reasons for Performing Phase I Environmental Site Assessment

The reasons for performing this Phase I Environmental Site Assessment are to satisfy commercial real estate lending requirements or provide due diligence information concerning the historical uses and current condition of the site. This report is intended to permit the client to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601). This practice constitutes all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B).

3.8 Other User Provided Information

No other information concerning the subject property has been provided by the client.

4.0 RECORDS REVIEW

4.1 Standard Environmental Records Sources

FEDERAL AGENCY RECORDS

United States Environmental Protection Agency (USEPA)
National Priorities List

The National Priorities List (NPL) identifies abandoned or uncontrolled hazardous waste sites which have been identified as possibly representing a long-term threat to the public health or environment. These sites have been identified as being highly contaminated with hazardous substances and represent the USEPA's target enforcement and cleanup efforts. Studies of individual sites are conducted by the USEPA to determine level of contamination, and the sites are then compared and ranked to other sites on the NPL.

A review of the USEPA National Priorities List dated January 2016 indicates there are no proposed, final or delisted sites within one mile of the subject property.

United States Environmental Protection Agency (USEPA)
Federal Superfund Liens List

The USEPA maintains a list of Superfund Lien sites that have been issued on properties throughout the United States. These sites have been remediated through the expenditures of Superfund monies. The purpose of the lien is to prevent the property owner from gaining a financial benefit from the federal government's cleanup and restoration activities.

A review of the July 2011 Federal Superfund List revealed there are no Superfund Liens on or adjacent to the site.

United States Environmental Protection Agency (USEPA)
Comprehensive Environmental Response, Compensation
and Liability Information System (CERCLIS)

The USEPA has developed a database known as CERCLIS which contains information on potential hazardous waste sites located throughout the United States. There are over 33,000 sites on the CERCLIS inventory. All sites are subjected to a preliminary assessment and thereafter are either placed on the National Priority List (NPL) or are placed in a category for those sites requiring no further Federal Superfund action.

A review of the January 2016 CERCLIS report indicates there are no CERCLIS sites located within a ½ mile radius of the subject property. There is one listed "No Further Required Action Planned" (NFRAP) site identified within a ½ mile radius of the site:

Northpoint Abandoned Well (#1 on map)
1100 O Street
Lompoc, CA 93436

The facility does not qualify for the NPL and no further required actions are planned for this site. It is unlikely any contaminants from this closed site will have a significant impact on the subject property.

United States Environmental Protection Agency (USEPA)
Resource Conservation and Recovery Act (RCRA)
Treatment, Storage or Disposal Facilities (TSDF)

The USEPA maintains a list of facilities which have been authorized to receive hazardous waste. These facilities have permits to treat, store, or dispose of the waste, as determined by the RCRA regulations. In addition, the USEPA publishes a list of those facilities that are subject to a corrective action, based on the facilities' waste handling and storage procedures. The facilities which are subject to a corrective action are identified as CORRACTS sites.

A review of the May 2018 RCRA TSDF list determined there are no known CORRACTS facilities within a one-mile radius of the subject property. In addition, there are no non-CORRACTS TSD facilities listed within a ½ mile radius of the subject property.

United States Environmental Protection Agency (USEPA)
Resource Conservation and Recovery Act (RCRA)
Hazardous Waste Generators

The USEPA maintains a list of facilities which are identified as generators of large and small quantities of hazardous waste. These facilities have permits to generate, store and dispose of the waste, as determined by the RCRA regulations.

A review of the May 2018 RCRA Hazardous Waste Generators list determined the subject and adjacent properties are not identified as large or small quantity hazardous waste generators.

United States Environmental Protection Agency (USEPA)
Institutional Control / Engineering Control Registries

The USEPA maintains a list of institutional and engineering controls for the purpose of tracking sites that may contain residual contamination or have activity and use limitations. Engineering controls are engineering measures designed to minimize the potential for human exposure to contamination by either limiting direct contact with contaminated areas or controlling migration of contaminants. Institutional controls are non-engineering controls used to restrict land use or land access in order to protect people and the environment from exposure to hazardous substances remaining at the site or facility.

A review of the September 2006 USEPA Institutional Control / Engineering Control Registry did not identify the subject property as having institutional or engineering controls.

United States Environmental Protection Agency (USEPA)
Office of Emergency and Remedial Response
Emergency Response Notification System (ERNS)

The USEPA maintains a list of locations which have reported a release of oil or hazardous substances to the federal government. Most of the data in this system is based on information that was received during the initial notification. The USEPA ceased maintaining the ERNS database list in 1999, and the responsibility to report oil, chemical, radiological, biological and etiological discharges into the environment was transferred to the United States Department of Homeland Security National Response Center (NRC).

A review of the ERNS list for 1999 determined there are no reported incidents on the subject property.

United States Department of Homeland Security
United States Coast Guard
National Response Center (NRC)

The NRC is the national point of contact for reporting all oil, chemical, radiological, biological and etiological discharges into the environment anywhere in the United States and its territories. In addition to gathering and distributing spill data for Federal On-Scene Coordinators and serving as the communications and operations center for the National Response Team, the NRC maintains agreements with a variety of federal entities to make additional notifications regarding incidents meeting established trigger criteria.

A review of the NRC list for 2015 determined there are no reported incidents on the subject property.

STATE AGENCY RECORDS

State of California
Environmental Protection Agency (CAL-EPA)
Department of Toxic Substances Control (DTSC)

CAL-EPA is responsible for the regulation and enforcement of environmental health laws within the state of California, as set forth by the California Health and Safety Code. CAL-EPA is also designated by the USEPA to assist in enforcing federal environmental laws. CAL-EPA regulates companies involved in the generation, transportation, storage and disposal of hazardous substances. CAL-EPA records include the "CalSites" database, which is a listing of 7,800 known active, inactive and abandoned hazardous waste sites. These sites have previously been reported in the Abandoned Site Program Information System (ASPIS), Bond Expenditure Plan (BEP), and Cortese databases. CAL-EPA records also include a listing of the California Integrated Waste Management Board's "Active" and "Closed and Inactive" landfills database.

A review of the June 2019 CAL-EPA records determined there are no listed "CalSite" facilities within a one-mile radius of the subject property. In addition, there are no active, closed or inactive landfill sites within a ½ mile radius of the subject property.

State of California
Environmental Protection Agency (CAL-EPA)
Department of Toxic Substances Control (DTSC)
Land Use Covenants

CAL-EPA/DTSC utilizes Land Use Covenants (LUCs) to protect the public from unsafe exposures to residual contamination that is left in place after site remediation activities have been completed. The LUC imposes limitations on land use when hazardous materials, wastes, or substances remain on the property at levels which are not suitable for unrestricted use of the land. The LUC includes easements, servitudes, covenants, and restrictions which run with the land and continue into perpetuity unless modified or terminated in accordance with applicable

law. All LUCs are signed by the DTSC and the landowner, and recorded in the county where the land is located.

A review of the May 2018 DTSC database records did not identify any deed restrictions on the subject property.

State of California
Water Resources Control Board
Regional Water Quality Control Board (RWQCB)
Land Use Covenants

RWQCB utilizes Land Use Covenants (LUCs) to protect the public from unsafe exposures to residual contamination that is left in place after site remediation activities have been completed. The LUC imposes limitations on land use when hazardous materials, wastes, or substances remain on the property at levels which are not suitable for unrestricted use of the land. The LUC includes easements, servitudes, covenants, and restrictions which run with the land and continue into perpetuity unless modified or terminated in accordance with applicable law. All LUCs are signed by the RWQCB and the landowner, and recorded in the county where the land is located.

A review of the June 2017 RWQCB database records did not identify any deed restrictions on the subject property.

State of California
Water Resources Control Board
Regional Water Quality Control Board (RWQCB)

The RWQCB is responsible for monitoring the quality and flow of groundwater, and they address other potential threats to the groundwater from surface spills and leaks. The RWQCB monitors the contamination problem, the investigation and any remedial action. Their database information includes active and closed Cleanup Program Sites, Land Disposal Sites, Leaking Underground Storage Tank (LUST) Sites, Military Cleanup Sites, Military Privatized Sites, Military Underground Storage Tank Sites and registered underground storage tank sites (RWQCB sites) within the State of California.

A review of the June 2019 RWQCB records determined the subject property is not listed as a known RWQCB site. There are also no known open RWQCB LUST sites or active non-LUST RWQCB Cleanup Sites within a ½ mile radius of the subject property. In addition, there are no records of registered underground storage tanks on or adjacent to the subject property.

4.2 Additional Environmental Record Sources

State of California
Department of Conservation
Division of Mines and Geology (CDMG)

The CDMG conducts studies, publishes maps, and provides information concerning the geological formations throughout the state of California. CDMG research information is combined with information from the United States Geological Survey and the ensuing geologic maps of the state are prepared. These geologic maps also illustrate the approximate locations of known earthquake faults.

A review of the area map published by CDMG indicates the geologic area surrounding the subject property consists of Recent alluvium, which includes alluvial fan, flood-plain, and streambed deposits. The client may wish to refer to the enclosed geologic map.

State of California
Department of Oil
Gas and Geothermal Resources (DOGGR)

The DOGGR regulates the drilling, operation and abandonment of gas and oil wells throughout the state of California. If an active, idle or abandoned well is located on or adjacent to a proposed construction site, DOGGR requires a site plan review prior to issuing a building permit. Abandoned oil wells must meet standards established in 1984.

A review of the area map published by DOGGR indicates there are no producing, idle or abandoned oil wells on or adjacent to the subject property. The client may wish to review the enclosed map.

State of California
Air Resources Board (CARB)

The Santa Barbara Air Pollution Control District (APCD) is responsible for the development and enforcement of regulations concerning air emissions and airborne hazards from point, area and mobile sources in the South Central Coast Air Basin.

A review of the APCD records determined there are no "Hot Spot" facilities identified on the subject property. There is a "Hot Spot" facility identified on the adjacent property to the east (Denmat Holdings, LLC, 1017 West Central Avenue); however, it is unlikely any air emissions from this site will have a significant environmental impact on the subject property.

State of California
Integrated Waste Management Board (CWMB)

CWMB maintains information detailing the locations of active, inactive or future solid waste landfill sites in Santa Barbara County.

A review of CWMB major waste systems determined there are no active, inactive or future landfill sites within a ½ mile radius of the subject property.

California Department of Water Resources
Division of Planning and Local Assistance (DWR)

DWR maintains contour maps and data of the groundwater levels in the Ventura County area. The records indicate the depth to the aquifer, as well as the approximate flow direction.

A review of this data revealed the site is located at an elevation of approximately 82 feet above sea level. The closest well is located about ¼ of a mile west of the subject property. The elevation of the nearby well is 81 feet above sea level, and the groundwater levels are 47 feet above sea level, or approximately 34 feet below the ground surface. Based on the topography of the area, the groundwater flow is expected to be to the southwest, although this cannot be confirmed due to lack of nearby wells.

Santa Barbara County
Public Health Department (SBPHD)

SBPHD maintains records on underground storage tanks, issues installation and removal permits, and monitors the contamination cleanup process.

According to a SBPHD official, there are no records of underground storage tanks or hazardous materials inventories for the subject property.

4.3 Physical Setting Sources

A United States Geological Survey (USGS) 7.5 Minute Topographical map of the subject property and surrounding area is included in the appendices of the report. The map shows the locations of the identified offsite environmental risks or threats described in the report.

4.4 Historical Use Information on the Property

City of Lompoc
Building and Safety Department

There are no building or demolition permits on file for the subject property.

County of Santa Barbara
Assessor's Office

A review of the Assessor's records for the subject property determined the vacant land is designated for light-industrial use. The property owner is identified as PK Properties Lompoc LLC.

Historical Aerial Photographs

A review of historical aerial photographs of the subject property determined the following information:

Date of Photo	Description
1937, 1943, 1954, 1960 and 1969	The subject property is mostly vacant agricultural land, with a residence in the southwest corner of the site.
1978, 1981, 1989, 1994, 2003 and 2004	The subject property is vacant agricultural land.
2005, 2009, 2010, 2012, 2014 and 2016	The subject property is a vacant lot.

Historic Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps provide information on commercial and industrial properties, based on risk data gathered for the fire insurance companies. The maps show the number of buildings located on the property, and the type of construction. The maps also describe the various businesses located nearby, and show the locations of tanks, boilers, and other potential hazards.

A review of the Sanborn Fire Insurance Map collections from 1867-1970, did not locate any maps for the subject property.

Historic City Directory Search

City Directories provide information on residential, commercial and industrial properties, and list the business name and address. A review of the historic directories provides an overview of the current and previous occupants of the site.

A search of the Haines Criss Cross City Directories, dated 1977-2011, determined there are no listings for the subject property.

A review of building permit records, county assessor records, historical aerial photographs, and historic city directories determined the subject property has been vacant land since the early

2000s. The property was agricultural land from at least 1937 to the early 2000s, with a residence on the site from at least 1937 through the 1970s.

4.5 Historical Use Information on the Adjoining Properties

Historical Aerial Photographs

A review of historical aerial photographs of the adjoining properties determined the following information:

Date of Photo	Description
1937, 1943, 1954, 1960, 1969, 1978 and 1981	North, east and west of the subject property is vacant agricultural land. Central Avenue is to the south, and further south is vacant agricultural land.
1989 and 1994	North, east and west of the subject property is vacant agricultural land. Central Avenue is to the south, and further south is a residential neighborhood.
2003 and 2004	North and west of the subject property is vacant agricultural land. An industrial building is to the east, and a residential neighborhood is south of Central Avenue.
2005	North of the subject property is vacant land, and east of the site is an industrial building. Central Avenue is to the south, and further south is a residential neighborhood. Agricultural land is west of the site.
2009	North of the subject property is an industrial building and vacant land. To the east is an industrial building. Central Avenue is to the south, and further south is a residential neighborhood. Barton Avenue is to the west, and further west is agricultural land.
2010, 2012, 2014 and 2016	North of the subject property is an industrial building and a parking lot. To the east is an industrial building. Central Avenue is to the south, and further south is a residential neighborhood. Barton Avenue is to the west, and further west is agricultural land.

Historic Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps provide information on commercial and industrial properties, based on risk data gathered for the fire insurance companies. The maps show the number of buildings located on the property, and the type of construction. The maps also describe the various businesses located nearby, and show the locations of tanks, boilers, and other potential hazards.

A review of the Sanborn Fire Insurance Map collections from 1867-1970, did not locate any maps for the area surrounding the subject property.

Historic City Directory Search

City Directories provide information on residential, commercial and industrial properties, and list the business name and address. A review of the historic directories provides an overview of the current and previous occupants of the adjoining properties.

A review of the Haines Criss Cross City Directories dated 1977, 1982, 1987, 1992, 1997, 2009 and 2011 did not identify any commercial or industrial uses on the adjacent properties to the north, to the south of Central Avenue or to the west which were likely to lead to contamination of the subject property. The adjacent property to the east has been occupied by Fagerdala World Foams (2009-2011).

A review of historical aerial photographs and historic city directories determined the industrial building to the northwest was constructed between 2005 and 2009 and the property was previously agricultural land. The parking lot to the northeast was developed around 2009, and the property was previously agricultural land. The industrial building to the east was constructed between 1994 and 2003 and the property was previously agricultural land. The residential neighborhood south of Cypress Avenue was constructed in the 1980s, and the property was previously agricultural land. The property to the west has been agricultural land for the past 82 years.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

The site reconnaissance consisted of a walk through the entire property, and visually observing the structures, storage areas and parking lots. No inspection was conducted under floors, above ceilings or behind walls.

5.2 Location and Legal Description

The subject property, 1025 and 1035 West Central Avenue, Lompoc, California, is located on the northeast corner of Central Avenue, east of Barton Avenue. The property is described as Santa Barbara County Tax Assessor's Parcel Numbers (APNs) 093-450-055 and 093-450-056.

5.3 Site and Vicinity General Characteristics

The site consists of approximately 3.75 acres of vacant land, located in a mixed industrial, commercial and residential area of Lompoc, California (see site plan). The site and the

surrounding area are fairly level, and the subject property is not connected to the municipal water and sewage systems.

5.4 Current Use of Property

The subject property is currently vacant and unoccupied.

5.5 Subject Property Observations

On August 2, 2019, an inspection of the subject property and surrounding area was conducted by ASTM Environmental Professional Marty Kasman. The subject property is approximately 3.75 acres of vacant land, which is mostly covered with grasses and weeds (see photos #1, #2, #3, #4, #5 and #6). Small amounts of trash or debris was observed on the subject property. There were no signs of previous buildings or structures on the site. No hazardous materials or hazardous wastes were observed being stored on the property, and there was no evidence of wastewater clarifiers, sumps, pits or underground tanks. In addition, no evidence of wells or septic tanks was observed. A horseshoe pit is located at the north end of the property and it appears it is being used by employees of the adjacent business (see photo #7). A storm drain inlet is located near the southeast corner of the site (see photo #8). No visible signs of illegal dumping or distressed vegetation were observed on the property, and there was no indication of obvious contamination on the site. The electrical power in the area is supplied by underground utility lines, and no signs were observed on the nearby transformers indicating the presence of polychlorinated biphenyls (PCBs).

5.6 Adjoining Property Observations

Northern Border

North of the subject property is an industrial building which is occupied by Pali Wine Company (see photo #9) and a separate paved parking lot (see photo #10). There were no visible signs of spills or contamination on the adjacent properties.

Eastern Border

East of the subject property is an industrial building which is occupied by Denmat (see photo #11). There were no visible signs of spills or contamination on the adjacent property.

Southern Border

South of the subject property is Central Avenue, and further south is a residential neighborhood (see photo #12). There were no visible signs of spills or contamination on the adjacent properties.

Western Border

West of the subject property is Barton Avenue, and further west is agricultural land (see photo #13). There were no visible signs of spills or contamination on the adjacent property.

6.0 INTERVIEWS

6.1 Interview with Owner

The property owner was not interviewed.

6.2 Interview with Site Manager

The site manager was not interviewed.

6.3 Interviews with Occupants

The property is vacant and unoccupied.

6.4 Interviews with Local Government Officials

No interviews with local government officials were conducted.

6.5 Interview with Others

Mr. Jeff Pion, the listing real estate agent, advised the current property purchased the subject property 10 years and is not familiar with the history of the site. According to Mr. Pion, the property has always been vacant land and the site has never been developed. Mr. Pion advised to the best of his knowledge, there are no underground storage tanks, wastewater clarifiers, sumps, pits or wells on the property, and he is unaware of any spills or contamination problems at the site.

7.0 EVALUATION

7.1 Recognized Environmental Conditions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E 1527-13 on the vacant land located at 1025 and 1035 West Central Avenue, Lompoc, California, the Property. Any exceptions to, or deletions from the Standard Practice are described in Section 2.4 of this report. This assessment has not identified any evidence of *recognized environmental conditions* in connection with the Property.

7.2 Historical Recognized Environmental Conditions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E 1527-13 on the vacant land located at 1025 and 1035 West Central Avenue, Lompoc, California, the Property. Any exceptions to, or deletions from the Standard Practice are described in Section 2.4 of this report. This assessment has not identified any evidence of *historical recognized environmental conditions* in connection with the Property.

7.3 Controlled Recognized Environmental Conditions

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E 1527-13 on the vacant land located at 1025 and 1035 West Central Avenue, Lompoc, California, the Property. Any exceptions to, or deletions from the Standard Practice are described in Section 2.4 of this report. This assessment has not identified any evidence of *controlled recognized environmental conditions* in connection with the Property.

7.4 Vapor Migration

Vapor migration is defined as the movement of hazardous substances or petroleum products as a vapor in the subsurface. Properties with known or suspected soil or groundwater contamination located within an approximate minimum search distance of ⅓-mile for hazardous substances (volatile and semi-volatile nonpetroleum hydrocarbons, e.g. perchloroethylene associated with dry cleaners) or 1/10-mile for petroleum hydrocarbons (e.g. gasoline fuel associated with gas stations), were evaluated to determine if they are likely to impact the subject property.

One offsite location has been identified as a potential risk or threat to the subject property. According to the data, the site is not located in the near vicinity, and there is no indication that contaminants from the site have migrated onto the subject property.

7.5 Opinion

Based on a review of regulatory and historical records, an interview with the listing real estate agent and a visual inspection of the site and surrounding area, this assessment has not identified any *recognized environmental conditions, historical recognized environmental conditions* or *controlled recognized environmental conditions* which are likely to impact the subject property. Although data failure occurred in the historical uses of the Property prior to 1937, it is unlikely the data failure will impact the ability to identify *recognized environmental conditions.*

7.6 Conclusions

Based on the results of this assessment, no further environmental studies are recommended for the site.

7.7 Deviations

This report was prepared in conformance to meet or exceed the scope and practice as set forth by the American Society for Testing & Materials (ASTM) Standard Practice E 1527-13, "Standard Practice of Environmental Site Assessments: Phase I Environmental Site Assessment Process." No significant deviations, deletions, or client-imposed constraints were made from this practice.

7.8 References

All government records and maps were obtained directly from the regulatory agencies identified in this report. The fire insurance map information was obtained from Digital Sanborn Maps, 1867-1970, Ann Arbor, Michigan. The aerial photographs were obtained from GeoSearch, Austin, Texas. The city directory search information was obtained from Sherman Library and Gardens, Corona Del Mar, California.

8.0 NON-SCOPE SERVICES

No non-scope or additional services including a broader scope of services, liability/risk evaluations, or remedial activities are included in this report. Some substances may be present on a property in quantities and under conditions that may lead to contamination of the property or nearby properties, but are not included in CERCLA's definition of hazardous substances (42 U.S.C. §960 I (14)) or do not otherwise present potential CERCLA liability. In any case, they are beyond the scope of this practice.

9.0 APPENDICES

9.1 Site and Vicinity Map

A United States Geological Survey (USGS) 7.5 Minute Topographical map of the subject property and surrounding area is included in the appendices of the report. The map shows the locations of the identified offsite environmental risks or threats described in the report.

9.2 Site Plan

A site plan of the subject property is included in the appendices of the report. The site plan shows the general location of the structures on the property, and other items of interest which were identified in the description of the site.

9.3 Site and Vicinity Photographs

Photographs of the subject property and surrounding neighborhood are attached to this report. These photographs were taken at the time of the site inspection.

9.4 Historical Research Documentation

Building permit records were obtained directly from the regulatory agency identified in this report. The aerial photographs summarized in this report were obtained from GeoSearch, Austin, Texas. The Sanborn Fire Insurance Map information was obtained from Digital Sanborn Maps, 1867-1970, Ann Arbor, Michigan. The city directory search information was obtained from Sherman Library and Gardens, Corona Del Mar, California.

9.5 Regulatory Records Documentation

All government records were obtained directly from the regulatory agencies identified in this report.

9.6 Interview and Research Documentation

All of the field notes and supporting information obtained from interviews and research concerning the subject property are maintained in the report file at the offices of Orswell & Kasman, Inc.

9.7 Special Contractual Conditions between User and Environmental Professional

No special contractual conditions or agreements exist between the client and any of the employees of Orswell & Kasman, Inc., and Orswell & Kasman, Inc. does not have any financial interest in the subject property.

9.8 Qualifications of the Environmental Professionals

The following are the qualifications of the individuals who conducted the site inspection, the records review or prepared the report:

Jack Orswell

Jack Orswell, a principal of the company, is an ASTM Environmental Professional and a licensed Private Investigator (#PI 14366) with the State of California. He is also a USEPA/AHERA accredited Asbestos Management Planner and California Certified Asbestos Consultant (#92-0869). He received his Bachelor of Science degree in Business Administration from the University of Southern California, and his Master of Arts degree in Organizational Leadership from Woodbury University. For 15 years he served as a Special Agent with the Federal Bureau of Investigation in the Denver, San Francisco and Los Angeles offices. Mr. Orswell received specialized training from the United States Environmental Protection Agency (EPA), and he was one of the first FBI Agents to work with the EPA in investigating federal environmental crimes.

While with the FBI, Mr. Orswell worked with the EPA's National Enforcement Investigations Center (NEIC) in Denver, Colorado, and helped establish evidence control procedures for their laboratory personnel. As coordinator of environmental investigations for the FBI's Los Angeles office, Mr. Orswell gained extensive training and experience working with the California Department of Health Services and the Los Angeles County Sheriff's Department.

Since 1988, Mr. Orswell has been in private industry, conducting environmental assessments for several financial institutions, real estate companies and law firms. Mr. Orswell has conducted environmental investigations throughout the United States, locating and interviewing witnesses to determine how hazardous materials were handled in various manufacturing operations, and documenting the long term effects of improper disposal.

Mr. Orswell's extensive background in criminal environmental enforcement and civil litigation support make him uniquely qualified as an environmental assessor and investigator. He is a life member of the FBI Agents Association, a member of the Society of Former Special Agents of the Federal Bureau of Investigation, the National Association of Environmental Professionals, the National Association of Government Guarantee Lenders, and ASTM International.

Marty Kasman

Marty Kasman, a principal of the company, is an ASTM Environmental Professional and a Registered Environmental Health Specialist (#4927) with the State of California. He is also a USEPA/AHERA accredited Asbestos Management Planner and California Certified Asbestos Consultant (#99-2553). He received his Bachelor of Science and Master of Science degrees in Environmental and Occupational Health Science from California State University at Northridge. He also has a Certificate in Hazardous Materials Management from the University of California at Los Angeles (UCLA). In addition, Mr. Kasman also received specialized hazardous materials training at the Federal Law Enforcement Training Center in Georgia.

Mr. Kasman served fourteen years with the Los Angeles County Fire Department, as a Supervising Hazardous Material Specialist and Deputy Health Officer. His responsibilities included field and laboratory work in hazardous materials management, conducting inspections of industrial plant operations, and monitoring cleanup activities. In addition, Mr. Kasman has investigated hundreds of abandoned waste sites and other cases involving the illegal dumping of hazardous materials throughout Los Angeles County.

Mr. Kasman currently serves as an environmental consultant to industry management in the proper handling of hazardous materials and waste. He has taught courses in hazardous materials regulatory compliance and waste management at UCLA, California State University at Northridge, and the California Specialized Training Institute at San Luis Obispo. Mr. Kasman also served on the State of California Local Unified Program Implementation Committee (LUPIC) to develop a standardized hazardous materials contingency plan.

Mr. Kasman's extensive education, training, and experience in hazardous materials management make him fully qualified to conduct environmental assessments and investigations. He is the former president and director of the California Hazardous Materials Investigators Association. He is also a former director of the Local Environmental Enforcement Officers Association, and the Los Angeles County Association of Environmental Health Specialists. He is a member of California and National Environmental Health Associations.

James Orswell

James Robert Orswell is an American Society for Testing and Materials (ASTM) Environmental Professional. Since graduating from Utah Valley University, he has actively been involved with numerous Phase I Environmental Site Assessment reports, Transaction Screen reports, soil vapor surveys, methane assessments, historical use reports and Phase II projects on commercial, industrial and residential properties.

Mr. Orswell is an experienced document writer, data collector, holds his 40-hour HAZWOPER certification and he is a certified mold inspector (CCMI #4261) (CRMI #4030) (CMR #4435). Since 2002, Mr. Orswell has worked in the environmental assessment and consulting field, researching and conducting numerous environmental investigations throughout the United States. He has worked directly with major lending institutions, real estate professionals, lawyers, city

planners and private clients. Mr. Orswell has also worked along with the Department of Defense in plotting former use defense sites (FUDS), local fire department administrators with underground storage tank removals and public utility engineers with removing polychlorinated biphenyls (PCB) contaminated electrical transformers. He has managed several Phase I projects, underground storage tank removals, installation of soil vapor extraction systems, groundwater monitoring wells and has overseen several subsurface investigations in Southern California.

Mr. Orswell is also an Eagle Scout, an automotive enthusiast, a volunteer with many non-profit organizations, an urban beekeeper and a world traveler. Mr. Orswell's education, training and experience provide him with the qualifications to conduct environmental assessments and investigations.

Scott Wilcox

Scott A. Wilcox is an ASTM Environmental Professional and a licensed Private Investigator (PI #18117) with the State of California. He received his Bachelor of Arts degree in Law and Society from the University of California at Santa Barbara, with an emphasis in pre-law. Since 1989, Mr. Wilcox has worked exclusively in the environmental investigation field, conducting and supervising numerous environmental investigations nationwide. Mr. Wilcox has an extensive background in the design, implementation and management of investigative teams, working with attorneys and private clients in support of complex civil litigation issues. He has worked closely with many regulatory agency personnel throughout the country in his role as a case manager.

Because of his unique environmental investigative experience, Mr. Wilcox is well versed in determining the access and availability of records and other documentation regarding environmental regulatory compliance at the federal, state, regional and local levels. He has been directly involved with several Superfund investigations throughout the western United States, and he has conducted hundreds of environmental due diligence investigations throughout his career.

Mr. Wilcox's education, training and experience provide him with unique qualifications to conduct environmental assessments and investigations. He is a registered environmental expert witness with the Los Angeles County Bar Association, and he is a member of Professional Environmental Marketing Association.

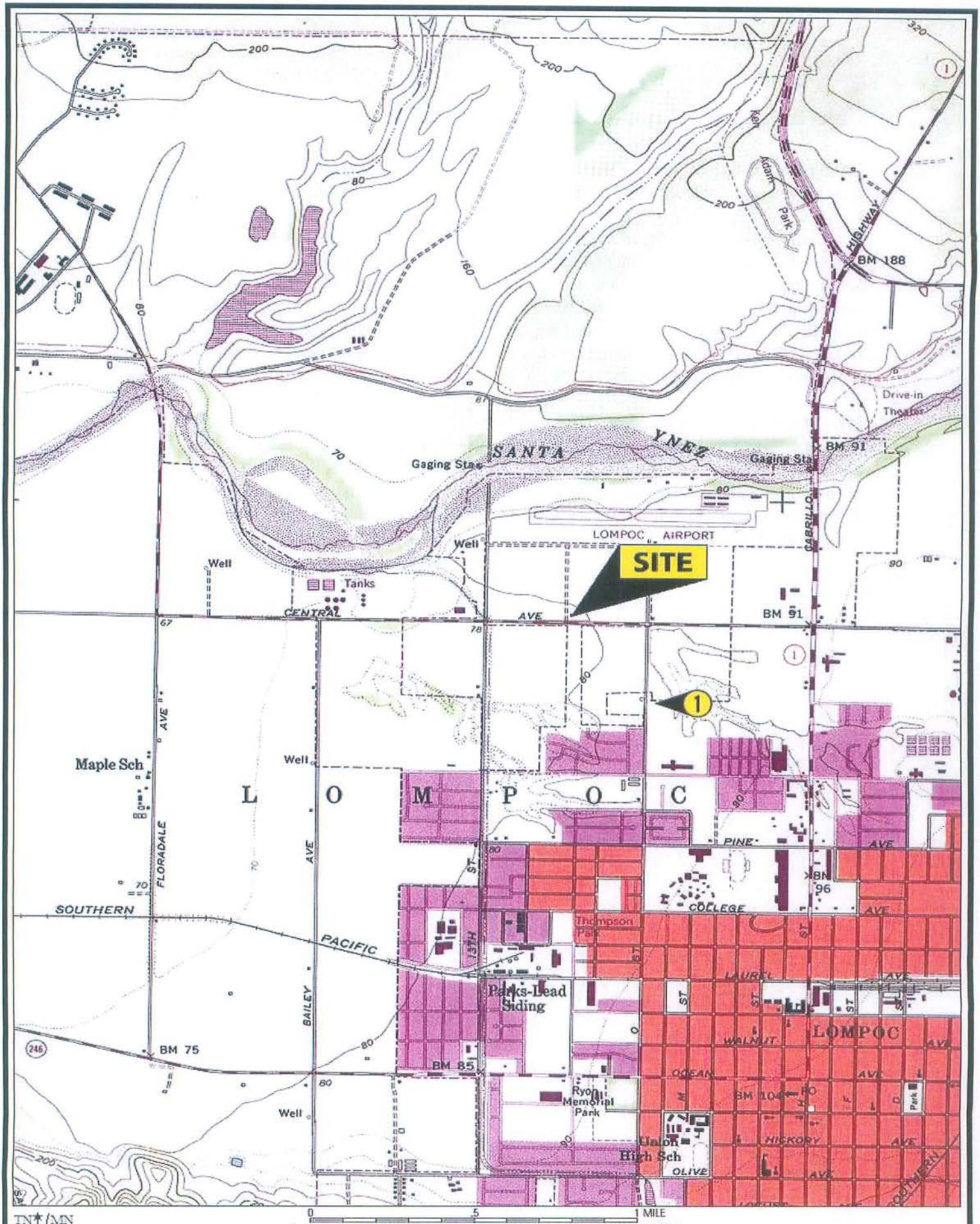
Richard Clark

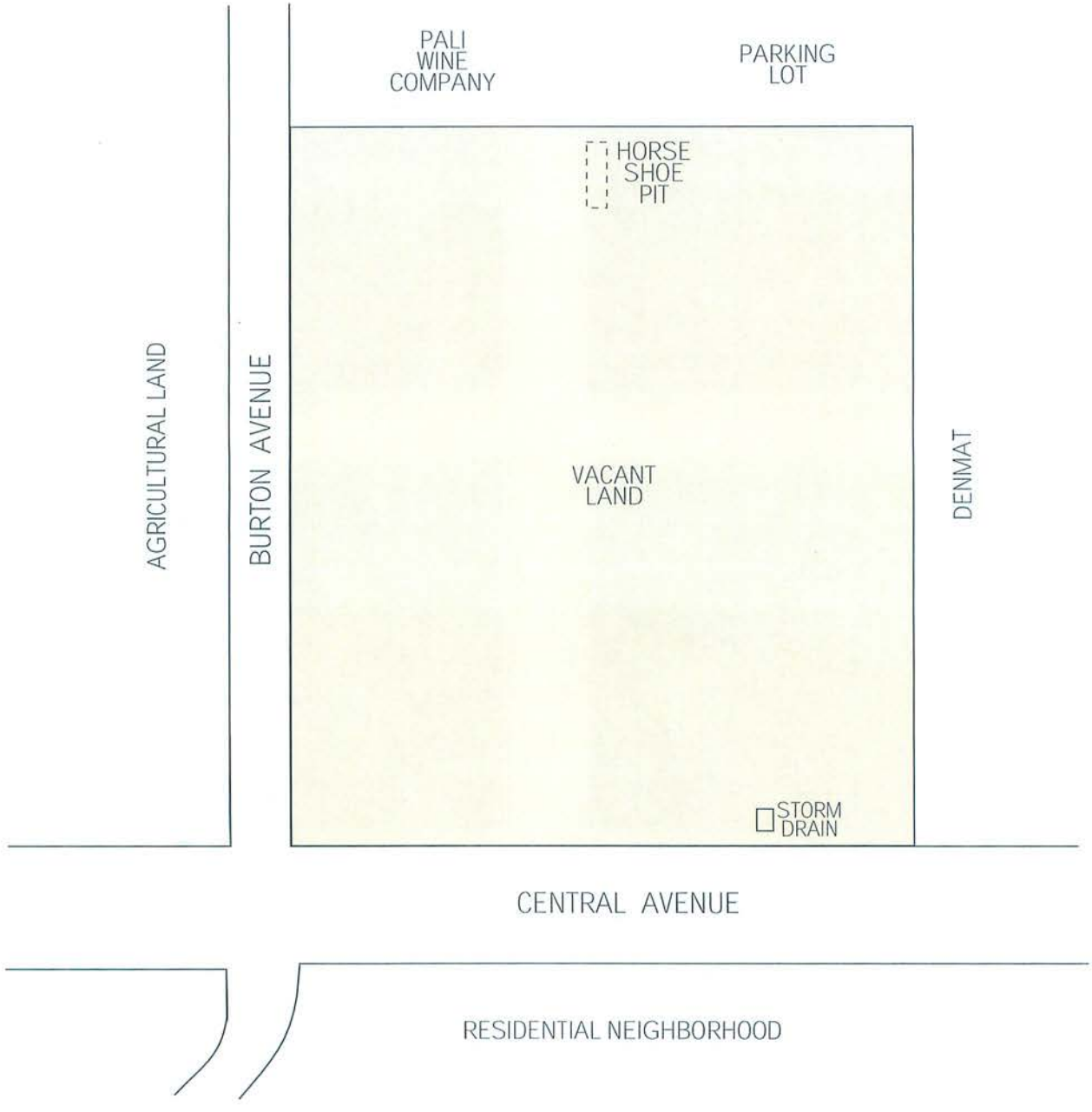
Richard Clark is an ASTM Environmental Professional and a licensed Professional Civil Engineer and General Engineering Contractor with Hazardous Substances Removal and Remedial Action Certification. He received his Bachelor of Science degree in Soil Science from California Polytechnic University, San Luis Obispo and his Master of Science degree in Environmental Studies (Environmental Science concentration with an emphasis in civil engineering) from California State University, Fullerton. He pursued post graduate studies in

geology at California State University, Northridge. Mr. Clark also earned a Certificate in Site Assessment and Remediation from the University of California, Irvine.

Mr. Clark has over 25 years of experience in private industry and government, conducting Phase I and Phase II environmental assessments and inspections of industrial plant operations, and monitoring cleanup activities. He has managed large remediation projects, including soil and groundwater cleanups and underground tank removals. He has been responsible for remediation feasibility studies, remediation system design, remediation contracting and system installation, and construction management. Since 1997, Mr. Clark has served as a Hazardous Materials Specialist and Deputy Health Officer for the Los Angeles County Fire Department.

Mr. Clark's extensive education, training, and work experience in environmental site assessments and remedial activities fully qualifies him to conduct environmental assessments and consulting services. Mr. Clark is also a certified professional soil scientist. He is a member of the Soil Science Society of America, Professional Soil Scientist Association of California, American Society of Civil Engineers, Geological Society of America, and Soil and Water Conservation Society.





ORSWELL & KASMAN, INC.
Environmental Assessments & Consulting

SUBJECT PROPERTY LOCATION:

1025 AND 1035 WEST CENTRAL AVENUE
LOMPOC, CA 93436

NOT TO SCALE - FOR ORIENTATION PURPOSES ONLY

N

Photo #1

Photo #2

Photo #3

Photo #4

Photo #5

Photo #6

Photo #7

Photo #8

Photo #9

Photo #10

Photo #11

Photo #12

Photo #13

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

GEOLOGIC MAP OF CALIFORNIA

EXPLANATION

SEDIMENTARY AND METASEDIMENTARY ROCKS

CENOZOIC

TERTIARY

QUATERNARY

Recent

Pleistocene

Pliocene

Miocene

Oligocene

Eocene

Paleocene

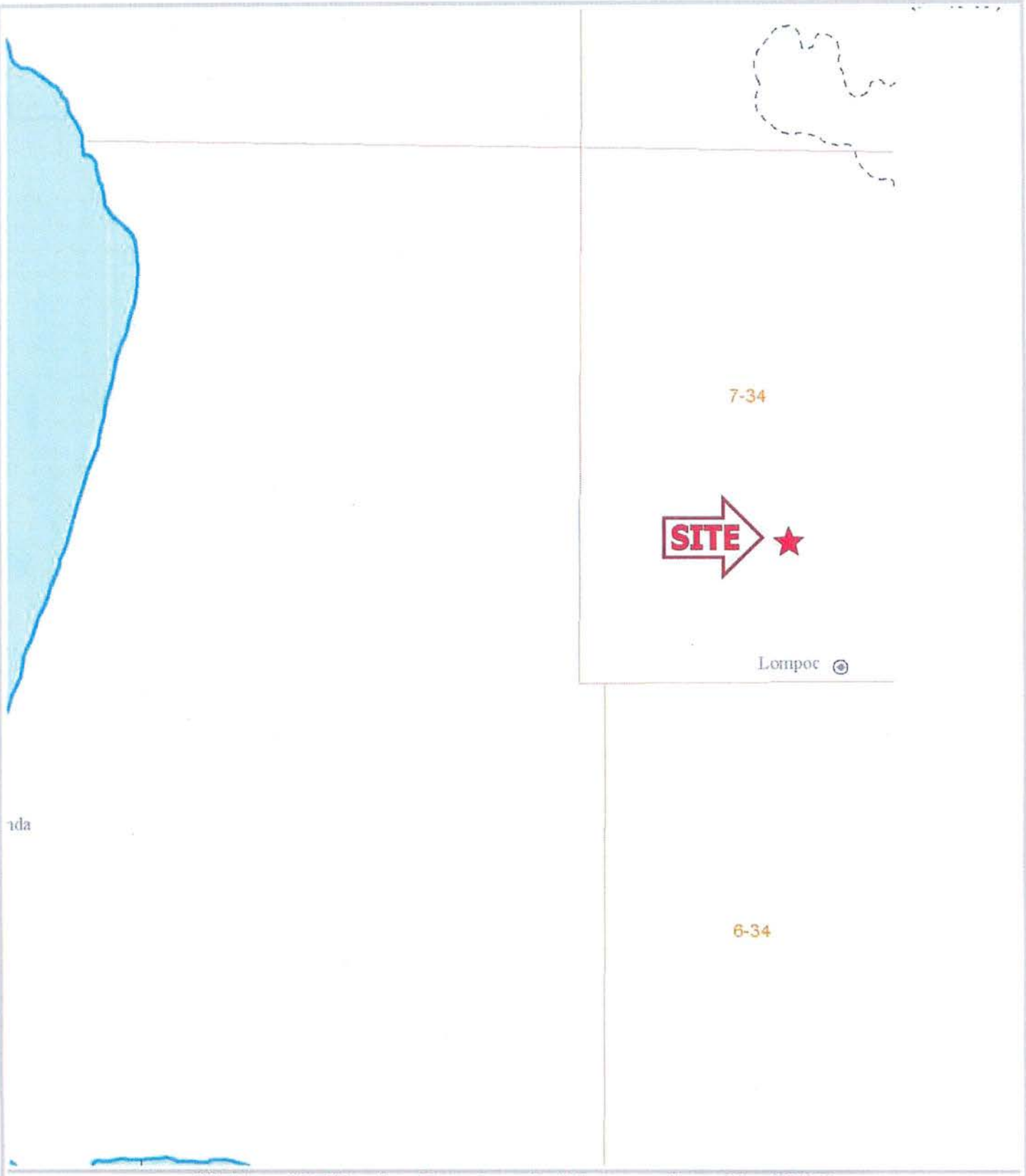
- Qs — Dune sand
- Qal — Alluvium
- Qsc — Stream channel deposits
- Qf — Fan deposits
- Qb — Basin deposits

GREAT VALLEY

- Qst — Salt deposits
- Ql — Quaternary lake deposits
- Qg — Glacial deposits
- Qt — Quaternary nonmarine terrace deposits
- Qm — Pleistocene marine and marine terrace deposits
- Qc — Pleistocene nonmarine
- QP — Plio-Pleistocene nonmarine
- Pc — Undivided Pliocene nonmarine
- Puc — Upper Pliocene nonmarine
- Pu — Upper Pliocene marine
- Pmlc — Middle and/or lower Pliocene nonmarine
- Pml — Middle and/or lower Pliocene marine
- Mc — Undivided Miocene nonmarine
- Muc — Upper Miocene nonmarine
- Mu — Upper Miocene marine
- Mmc — Middle Miocene nonmarine
- Mm — Middle Miocene marine
- Ml — Lower Miocene marine
- Φc — Oligocene nonmarine
- Φ — Oligocene marine
- Ec — Eocene nonmarine
- E — Eocene marine
- Epc — Paleocene nonmarine
- Ep — Paleocene marine

IGNEOUS AND META-IGNEOUS ROCKS

- Qrv — Recent volcanic: Q_{rv}^{r} —rhyolite; Q_{rv}^{a} —andesite; Q_{rv}^{b} —basalt; Q_{rv}^{p} —pyroclastic rocks
- Qpv — Pleistocene volcanic: Q_{pv}^{r} —rhyolite; Q_{pv}^{a} —andesite; Q_{pv}^{b} —basalt; Q_{pv}^{p} —pyroclastic rocks
- Quaternary and/or Pliocene cinder cones
- Pv — Pliocene volcanic: P_{v}^{r} —rhyolite; P_{v}^{a} —andesite; P_{v}^{b} —basalt; P_{v}^{p} —pyroclastic rocks
- Mv — Miocene volcanic: M_{v}^{r} —rhyolite; M_{v}^{a} —andesite; M_{v}^{b} —basalt; M_{v}^{p} —pyroclastic rocks
- Φv — Oligocene volcanic: Φ_{v}^{r}—rhyolite; Φ_{v}^{a} —andesite; Φ_{v}^{b} —basalt; Φ_{v}^{p}—pyroclastic rocks
- Ev — Eocene volcanic: E_{v}^{r} —rhyolite; E_{v}^{a} —andesite; E_{v}^{b} —basalt; E_{v}^{p} —pyroclastic rocks



LEGEND **Oil Map of California - Department of Conservation - Map WO-3**

- Drilling
- Drilling - idle
- Plugged and abandoned - dry hole
- Completed - oil
- Idle - oil
- Plugged and abandoned - oil
- Platform
- Platform Removed
- Platform Proposed
- 102 OCS Lease number (Post sale)
- 201 OCS Block number (Pre sale)
- Field boundary
- Surveyed section
- Projected section
- District Administrative boundary (Numbers indicate districts)
- Productive limit
- Boundary of field map

0 8,000 16,000
miles

N

July 22, 2008

ORSWELL & KASMAN, INC.

ENVIRONMENTAL RECORDS RESEARCH REPORT

Property Information:

Vacant Land
1025 and 1035 West Central Avenue
Lompoc, CA 93436

OKI Report #:

P19177

Report Date:

August 21, 2019

Prepared For:

Matthew Primm
Terra Firma Long Beach, LLC

Prepared by:

Orswell & Kasman, Inc.
316 West Foothill Boulevard
Monrovia, CA 91016
(626) 932 - 1800 * FAX (626) 932 - 1807
www.orswell-kasman.com

RESPONSE NOTIFICATION SHEET

This report is in conformance with the ASTM standard for a Phase I Environmental Site Assessment governernment records check

	No Sites Within Specified Radius	Property & Adjacent	¼ Mile Radius	½ Mile Radius	1 Mile Radius
National Priority List (NPL)	✓				
RCRA CORRACTS Facilities	✓				
CALSITES	✓				
CERCLIS	✓				
CERCLIS NFRAP			✓		
LUSTIS	✓				
Active / Inactive Landfills	✓				
Treatment, Storage & Disposal (TSD)	✓				
RWQCB Sites	✓				
Institutional Controls / Engineering Controls	✓				
Closed RWQCB Sites	✓				
Registered Underground Storage Tanks	✓				
Federal Hazardous Waste Generators	✓				
ERNS / NRC	✓				
Superfund Liens	✓				
Local Agency Records	✓				

Sites reported as "Case Closed" or "No Further Action" may not be listed in this report

OKI Report #: **P19177**
Completion Date: **8/21/19**

Property Information:

Vacant Land
1025 and 1035 West Central Avenue
Lompoc, CA 93436

Martin Kasman

Martin A. Kasman
ASTM Environmental Professional

Orswell & Kasman, Inc.
316 West Foothill Boulevard
Monrovia, CA 91016
(626) 932 - 1800 * Fax (626) 932 - 1807
www.orswell-kasman.com

Orswell & Kasman, Inc.

Environmental Assessments & Consulting

Subject Property Location:
1025 and 1035 West Central Avenue
Lompoc, CA 93436

SUBJECT TO TERMS OF DISCLAIMER

MAP LEGEND

- One Mile Radius
- Half Mile Radius
- Quarter Mile Radius
- Subject Property
- Regions
- Military Installation
- Parks
- Water
- Railroads
- Roads
- Freeways
- Site Areas

HAZARDOUS SITE SYMBOLS

- National Priority List
- RCRA Corrective Action
- CERCLIS
- CalSites
- Leaking Underground Storage Tanks
- Active / Inactive Landfills
- Treatment, Storage, & Disposal Facilities
- RWQCB Sites
- Closed RWQCB Sites
- Registered Underground Tanks
- Generators
- Emergency Response Notification System
- Superfund Liens
- CERCLIS - No Further Remedial Action Planned
- Oil Wells

For more information please contact us at (626) 932-1800 or www.orswell-kasman.com

Site Summary List

Please note that certain sites may appear on multiple databases
For more information on these sites, please see the accompanying pages

Subject Property Information:

Vacant Land
1025 and 1035 West Central Avenue
Lompoc, CA 93436

Site # 1

0.358 miles from the subject property
1890 feet from the subject property

Case # CAD982401606

Site **NORTHPOINT ABANDONED WELL**
1100 O ST
LOMPOC, CA 93436

Source Database
NFRAP

[ ]

CERCLIS NFRAP

Comprehensive Environmental Response, Compensation and Liability Information System - No Further Required Action Planned

Case Number **CAD982401606**

Site: **NORTHPOINT ABANDONED WELL**
1100 O ST
LOMPOC, CA 93436

Site # 1 *0.358 miles from the Subject Property*

NPL Status:	Not on the NPL
Federal Facility	N
Non-NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

REFERENCE GUIDE TO THE REGULATORY AGENCY DATABASES

SOURCE	DESCRIPTION
NPL: *1 mile search radius* *Date: January 2016*	The Naional Priority List (NPL) identifies abandoned or uncontrolled hazardous waste sites, which have been identified as possibly representing a long-term threat to the public health or environment. These sites have been identified as being highly contaminated with hazardous substances and represent the USEPA's target enforcement and cleanup efforts. Studies of individual sites are conducted by the USEPA to determine the level of contamination, and the sites are then compared and ranked to other sites on the NPL.
CORRACTS: *1 mile search radius* *Date: August 2018*	The USEPA maintains a list of facilities which have been authorized to receive hazardous waste. These facilities have permits to treat, store or dispose of the waste as determined by the RCRA regulations. In addition, the USEPA publishes a list of those facilities who are subject to a corrective action based on the facilities waste handling and storage procedures. The facilities, which are subject to a corrective action, are identified as CORRACTS sites.
CERCLIS: *½ mile search radius* *Date: January 2016*	The USEPA has developed a database known as the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS), which contains information on potential hazardous waste sites located throughout the United States. There are over 33,000 sites on the CERCLIS inventory. All sites are subjected to a preliminary assessment and thereafter are either placed on the National Priority List (NPL) or are placed in a category for those sites requiring no further Federal Superfund action.
CALST: *½ mile search radius* *Date: August 2018*	The State of California Environmental Protection Agency maintains the "CalSite" database, which is a listing of 7,800 known active, inactive and abandoned hazardous sites. These sites have previously been reported in the Abandoned Site Program Information System (ASPIS), Bond Ependiture Plan (BEP) and Cortese database.
RWQCB: *½ mile search radius* *Date: June 2017*	The State of California Water Resources Control Board is responsible for monitoring the quality of flow of the groundwater and compiles lists of known leaking undergound storage tanks. The list is maintained as the Leaking Underground Storage Tank Information System (LUSTIS). The local Regional Water Quality Control Board (RWQCB) monitors the contamination problem, the investigation and any remedial activities.
SWIS: *½ mile search radius* *Date: August 2018*	The State of California Integrated Waste Management Board maintains a list of active and inactive landfill sites within California and provides information concerning the ownership and types of wastes brought to the landfills.
TSD: *½ mile search radius* *Date: August 2018*	Treatment, Storage or Disposal Facilities (TSDF) is a federal listing of facilities, which have been authorized to receive hazardous waste. These facilities have permits to treat, store or dispose of waste as determined by the RCRA regulations.
ERNS: *Property & adjacent* *Date: 2015*	The Emergency Response Notification System (ERNS) is a list of locations which have reported a release of oil or hazardous substances to the USEPA Office of Emergency and Remedial Response. Most of the data in this system is based on information that was received during the initial notification.
HWG: *Property & adjacent* *Date: August 2018*	The United States Environmental Protection Agency maintains a list of known hazardous waste generators in the nation. A company on the list generates reportable quantities of hazardous waste, and the disposal and transportation of the waste is monitored through the use of a hazardous waste manifest.
UTANK: *Property & adjacent* *Date: June 2017*	The location and identy of registered underground tanks is maintained by the State of California Water Resources Control Board in the Hazardous Substance Storage Container Database. The list was compiled in 1991 and there are currently no plans to update the database at the present time.
SFL: *Property & adjacent* *Date: July 2011*	The USEPA maintains a list of Superfund Leins that have been issued on properties throughout the United States. These sites have been remediated through the expenditures of Superfund monies. The purpose of the lein is to prevent the property owner from gaining a financial benefit from the federal government's cleanup and restoration activities.

GeoSearch

On time. On target. In touch.™

Historical Aerial Photographs

NEW: *GeoLens by Geosearch*

Target Property:

Vacant Land
1025 and 1035 W. Central Ave.
Lompoc, Santa Barbara, California 93436

Prepared For:

Orswell & Kasman Inc.

Order #: 130860
Job #: 308464
Project #: P19177
Date: 8/12/2019

Target Property Summary

Vacant Land
1025 and 1035 W. Central Ave.
Lompoc, Santa Barbara, California 93436

USGS Quadrangle: **Lompoc**
Target Property Geometry: **Area**

Target Property Longitude(s)/Latitude(s):
(-120.470701983, 34.662067218), (-120.469242861, 34.662067218), (-120.469242861, 34.661012661), (-120.470701983, 34.661012661)

Aerial Research Summary

Date	Source	Scale	Frame
2016	USDA	1" = 500'	N/A
2014	USDA	1" = 500'	N/A
2012	USDA	1" = 500'	N/A
2010	USDA	1" = 500'	N/A
2009	USDA	1" = 500'	N/A
2005	USDA	1" = 500'	N/A
2004	USDA	1" = 500'	N/A
2003	USDA	1" = 500'	N/A
09/03/1994	USGS	1" = 500'	N/A
06/14/1989	USGS	1" = 500'	1888-136
10/18/1981	USGS	1" = 500'	473-112
09/20/1978	USDA	1" = 500'	178-92
01/31/1969	MH	1" = 500'	329
04/01/1960	USAF	1" = 500'	6-419
02/21/1954	ASCS	1" = 500'	2-89
09/21/1943	ASCS	1" = 500'	3-134
12/31/1937	FAIRCHILD	1" = 500'	SD-52

N
W E
S

Vacant Land
USDA
2016

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USDA
2014

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USDA
2012

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USDA
2010

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USDA
2009

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USDA
2005

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USDA
2004

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USDA
2003

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USGS
09/03/1994

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USGS
06/14/1989

GeoSearch

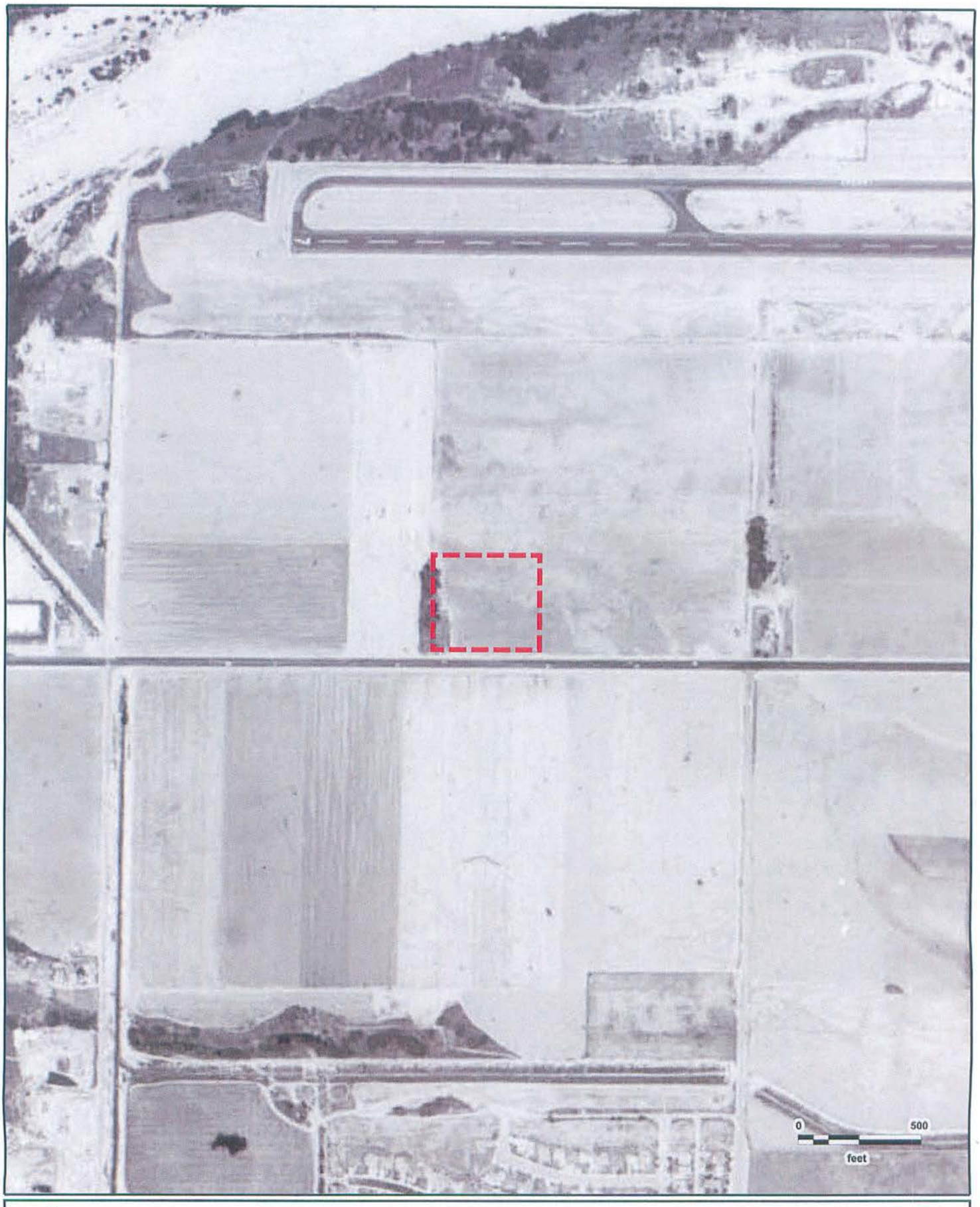
JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USGS
10/18/1981

GeoSearch

JOB #: 308464 - 08/12/2019

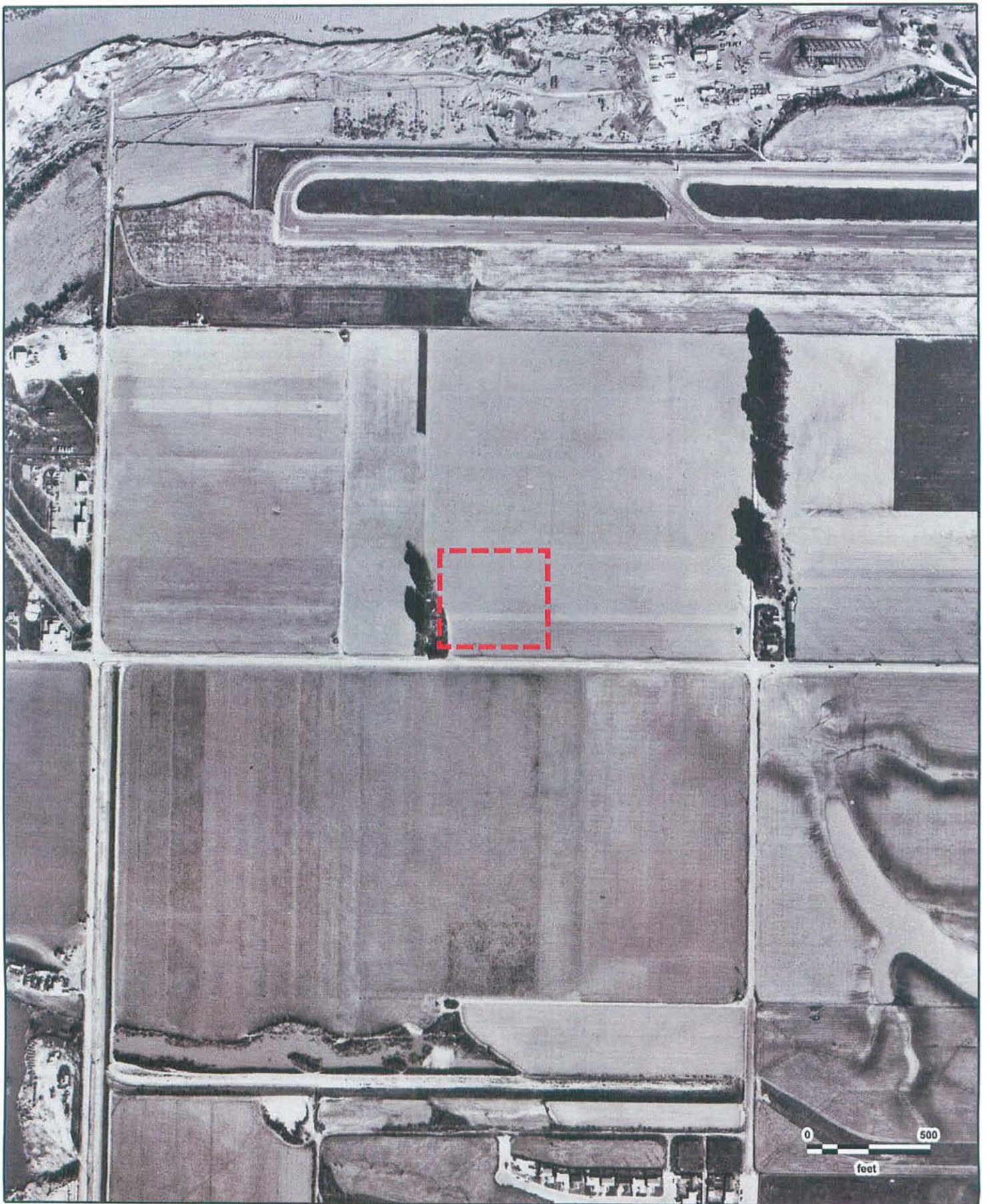


N
W E
S

Vacant Land
USDA
09/20/1978

GeoSearch

JOB #: 308464 - 08/12/2019



N
W E
S

Vacant Land
MH
01/31/1969

GeoSearch

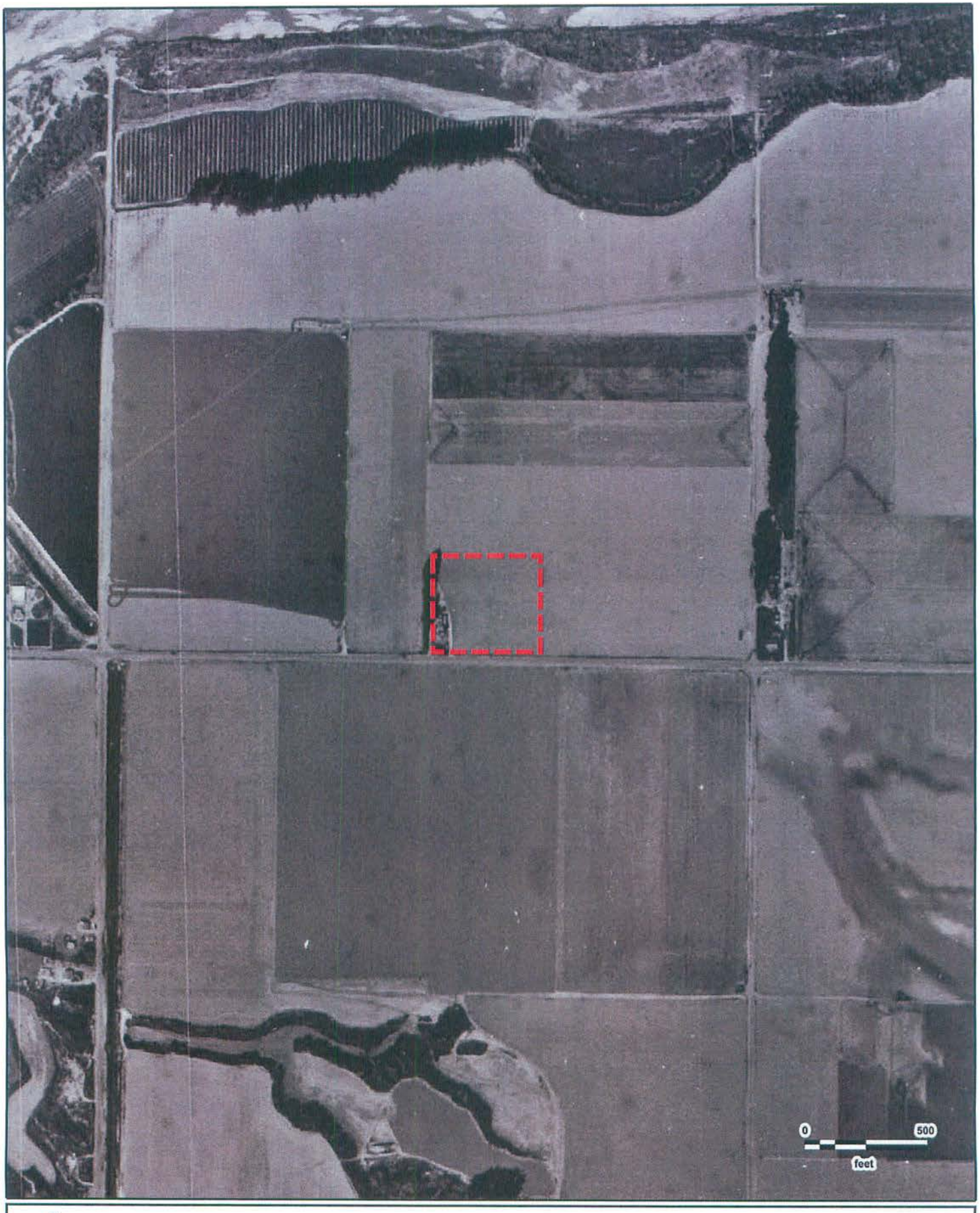
JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
USAF
04/01/1960

GeoSearch

JOB #: 308464 - 08/12/2019



N
W E
S

Vacant Land
ASCS
02/21/1954

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
ASCS
09/21/1943

GeoSearch

JOB #: 308464 - 08/12/2019

N
W E
S

Vacant Land
FAIRCHILD
12/31/1937

GeoSearch

JOB #: 308464 - 08/12/2019

Appendix E

Noise Modeling

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 12/11/2020
Case Descr Mustang Lompoc Cannabis Facility

				---- Receptor #1 ----
	Baselines (dBA)			
Description	Land Use	Daytime	Evening	Night
Single fami	Residential	60	60	60

			Equipment		
			Spec	Actual	Receptor
	Impact		Lmax	Lmax	Distance
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)
Backhoe	No	40		77.6	300
Dozer	No	40		81.7	300

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Backhoe	62	58
Dozer	66.1	62.1
Total	66.1	63.6

*Calculated Lmax is the Loudest value.

Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

123 Columbia Court North • Suite 201 • Chaska, MN 55318

(952) 448-5300 • Fax (952) 448-2613 • (800) 448-0121

Email: sales@acousticalsurfaces.com

Visit our Website: www.acousticalsurfaces.com

We Identify and S.T.O.P. Your Noise Problems

Echo Barrier™

The Industry's First Reusable, Indoor/ Outdoor Noise Barrier/Absorber

- Superior acoustic performance
- Industrial durability
- Simple and quick installation system
- Lightweight for easy handling
- Unique roll-up design for compact storage and transportation
- Double or triple up for noise 'hot spots'
- Ability to add branding or messages
- Range of accessories available
- Weatherproof – absorbs sound but not water
- Fire retardant
- 1 person can do the job of 2 or 3 people

Why is it all too often we see construction sites with fencing but no regard for sound issues created from the construction that is taking place? This is due to the fact that there has not been an efficient means of treating this type of noise that was cost effective ***until now.***

Echo Barrier temporary fencing is a reusable, outdoor noise barrier. Designed to fit on all types of temporary fencing. Echo Barrier absorbs sound while remaining quick to install, light to carry and tough to last.

BENEFITS: Echo Barrier can help reduce noise complaints, enhance your company reputation, extend site operating hours, reduce project timescales & costs, and improve working conditions.

APPLICATIONS: Echo Barrier works great for construction & demolition sites; rail maintenance & replacement; music, sports and other public events; road construction; utility/maintenance sites; loading and unloading areas; outdoor gun ranges.

DIMENSIONS: 6.56' × 4.49'.

WEIGHT: 13 lbs.

ACOUSTIC PERFORMANCE: 10-20dB noise reduction (greater if barrier is doubled up).

INSTALLATION: The Echo Barrier is easily installed using our quick hook system and specially designed elastic ties.

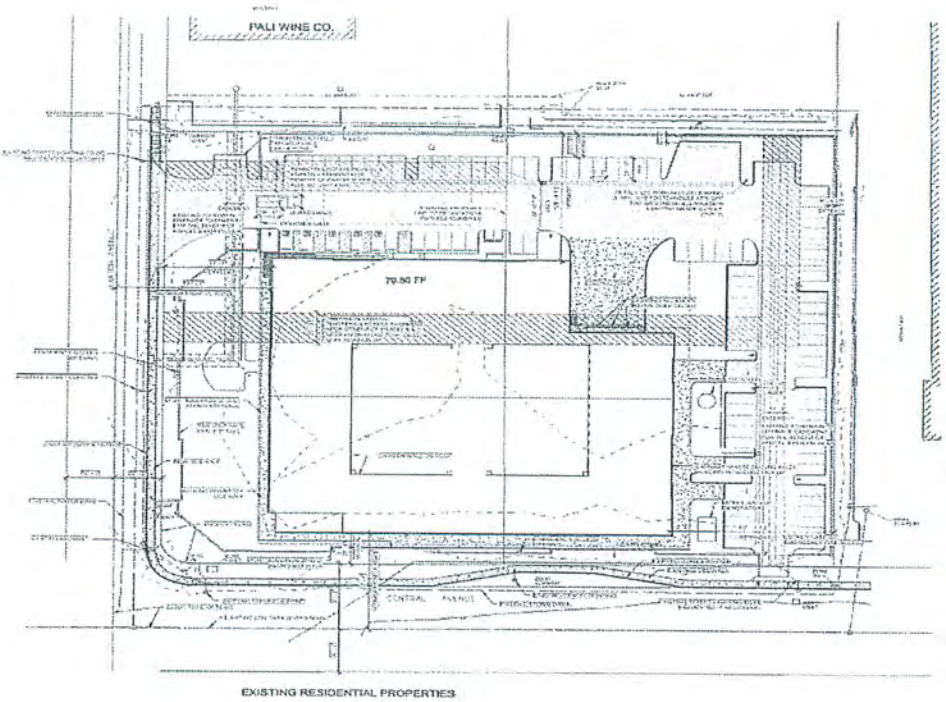
Echo Barrier Transmission Loss Field Data							
	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz
Single Layer	6	12	16	23	28	30	30
Double Layer	7	19	24	28	32	31	32

Appendix F

Traffic Report

ORGANIC LIBERTY PROJECT
CITY OF LOMPOC, CALIFORNIA

TRAFFIC AND CIRCULATION



July 8, 2020

ATE Project #20021

Prepared for:

City of Lompoc
100 Civic Center Plaza
Lompoc, CA 93436

ASSOCIATED TRANSPORTATION ENGINEERS

100 North Hope Avenue, Suite 4, Santa Barbara, CA 93110-1686 • (805) 687-4418 • FAX (805) 682-8507

ASSOCIATED TRANSPORTATION ENGINEERS

100 N. Hope Avenue, Suite 4, Santa Barbara, CA 93110 • (805)687-4418 • FAX (805)682-8509 • main@atesb.com

Since 1978

Richard L. Pool, P.E.
Scott A. Schell

July 8, 2020

20021R01

Brian Halverson
City of Lompoc
100 Civic Center Plaza
Lompoc, CA 93436

TRAFFIC AND CIRCULATION STUDY FOR THE ORGANIC LIBERTY PROJECT, CITY OF LOMPOC

Associated Transportation Engineers (ATE) has prepared the following traffic and circulation study for the Organic Liberty Project proposed in the City of Lompoc. The traffic study reviews potential traffic and circulation impacts associated with the Project and identifies mitigation measures where appropriate.

We appreciate the opportunity to assist you with the project.

Associated Transportation Engineers

Scott A. Schell
Principal Transportation Planner

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- Existing Levels of Service 5

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INTRODUCTION

The following report analyzes the potential traffic and circulation impacts associated with the Organic Liberty Project (the "Project") proposed in the City of Lompoc. The report evaluates existing and future traffic operations within the Project study area and identifies potential impacts and mitigations based on City and Caltrans policies. Site access is also analyzed in the traffic study.

PROJECT DESCRIPTION

As shown on Figure 1, the proposed Project is located at 1641 Central Avenue – on the northeast corner of the Central Avenue/Barton Avenue intersection within the City of Lompoc. The Project is proposing to develop a 109,000 SF manufacturing building that would be used for the cultivation, processing and distribution of cannabis. Figure 2 shows the Project Site Plan. As shown, vehicular access is proposed via one new driveway on Barton Avenue and secondary (emergency) access is proposed via one new driveway on Central Avenue.

EXISTING CONDITIONS

Street Network

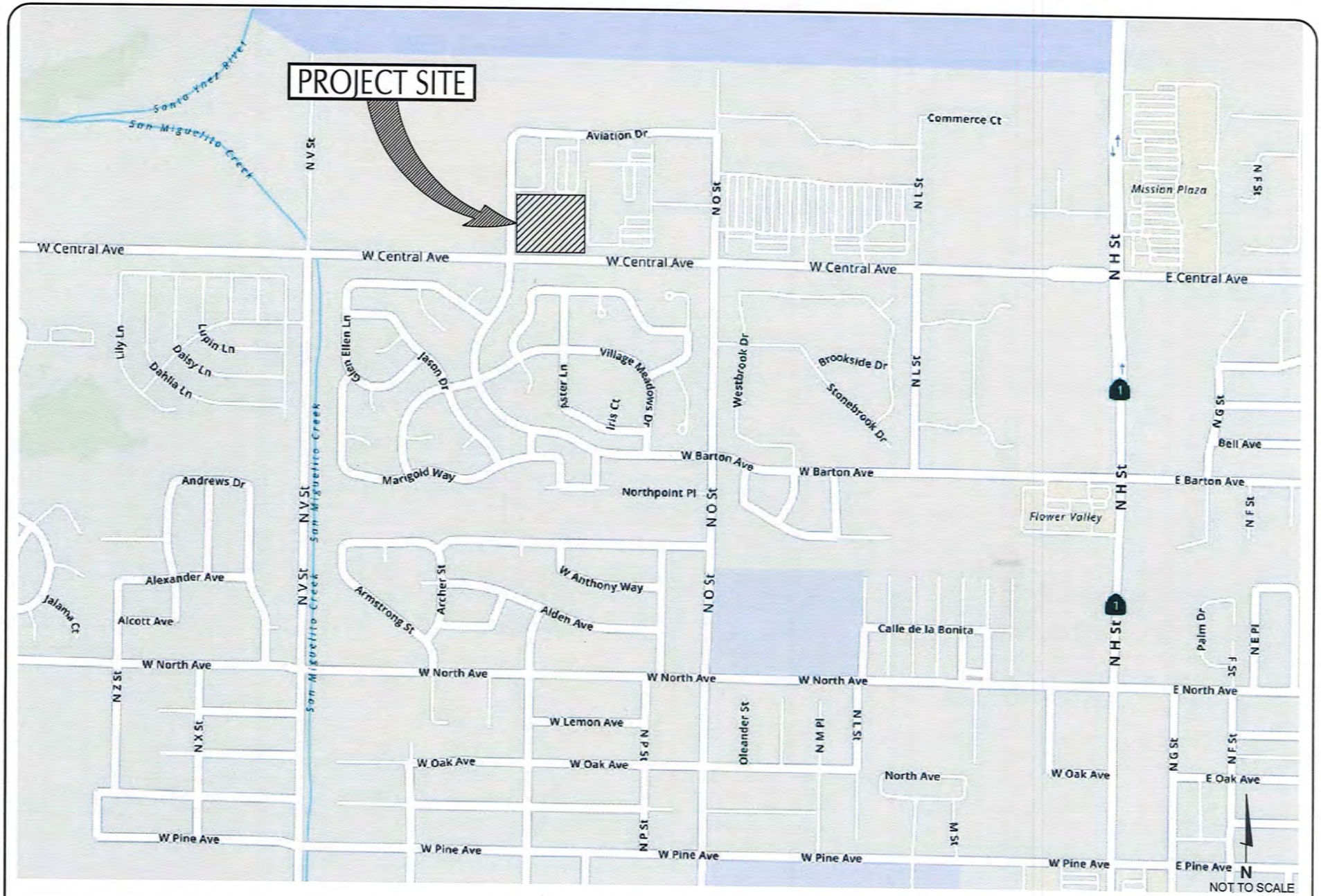
The Project site is served by a circulation system comprised of State Route 1 (H Street) and City collector and local streets, which are illustrated on Figure 3. A brief description of the existing street network is provided below.

H Street (SR 1), located east of the Project site, is a north-south four-lane roadway that includes a center left-turn lane north and south of Central Avenue. H Street is classified as a Major Arterial by the City. H Street is also a California state route (SR 1) that extends north and south of Lompoc. SR 1 connects to Vandenberg Village, Vandenberg Air Force Base, and the Santa Maria-Orcutt area north of Lompoc; and connects to US 101 south of Lompoc.

Central Avenue, located along the southern frontage of the Project site, is an east-west roadway that is classified as a Major Arterial by the City. Central Avenue contains two eastbound lanes, a center left-turn lane, one westbound through lane and a westbound right-turn lane adjacent to the Project site.

O Street, located east of the Project site, is a north-south street that is classified as a Minor Arterial. South of Central Avenue, O Street is a four-lane arterial road with on-street bike lanes.

V Street, located east of the Project site, is a north-south street that is classified as a Minor Arterial street. South of Central Avenue, V Street contains one lane in each direction with on-street bike lanes.

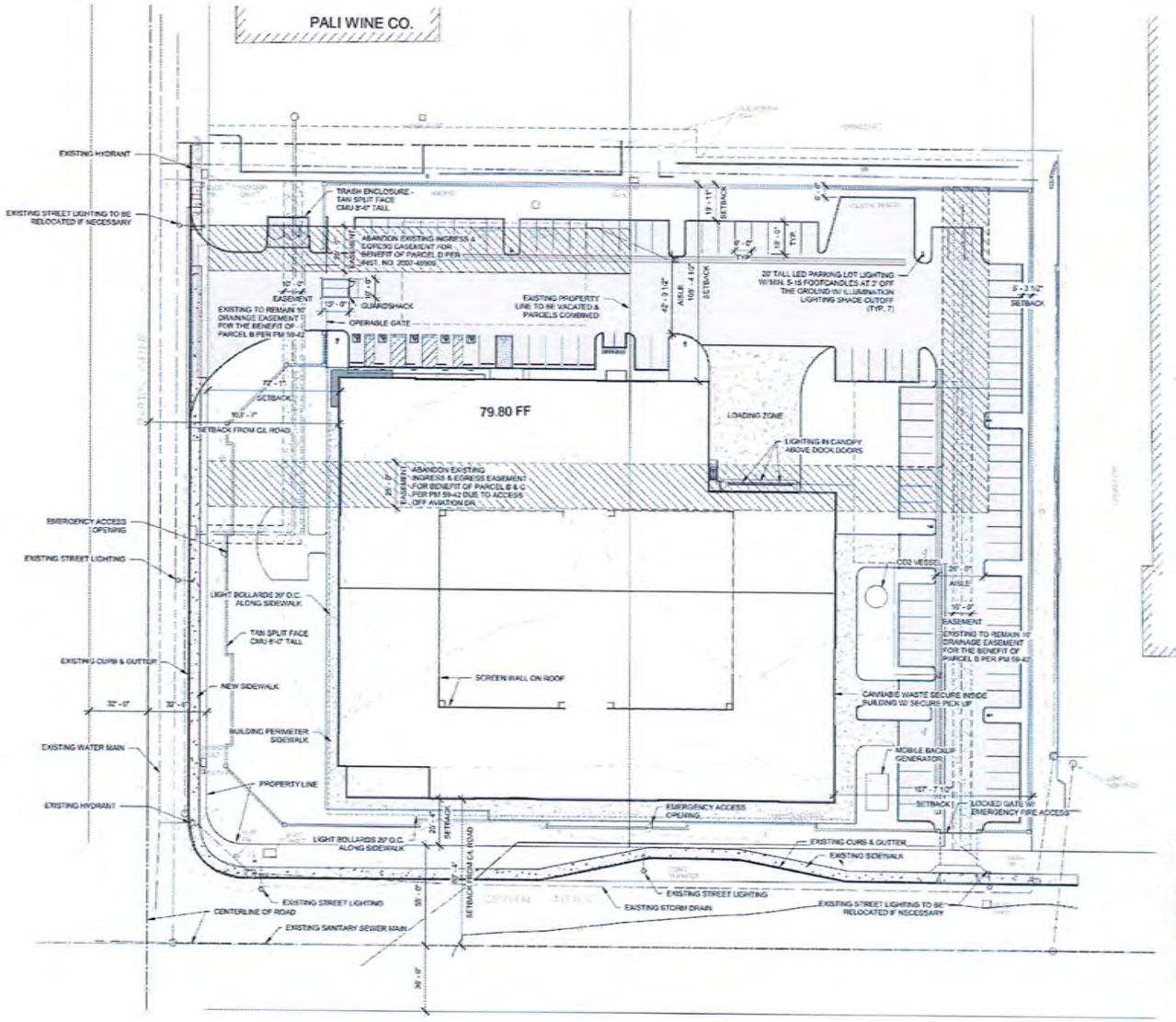


ASSOCIATED TRANSPORTATION ENGINEERS

PROJECT SITE LOCATION

FIGURE 1

JH - ATE#20021



GENERAL NOTES:

ASSESSOR PARCEL No.:
- 093-450-055
- 093-450-056

PARKING CALCULATIONS:

1st FLOOR
- STORAGE / NURSERY: 27,160.3 / 1,500 = 18.1
- OFFICE: 5,989 / 300 = 19.96
- MANUFACTURING: 26,143 / 500 = 48.28

1st FLOOR TOTAL: 86.34

2nd FLOOR
- STORAGE / NURSERY: 48914.4 / 1500 = 32.6
- OFFICE: 499.2 / 300 = 1.66

2nd FLOOR TOTAL: 34.26

OVERALL TOTAL PARKING: 120.6 (121)
TOTAL PARKING PROVIDED: 95 (see narrative explanation in submittal docs)

BUILDING & PARKING SETBACKS:
FRONT: 10' - 0"
SIDE: 5' - 0"
REAR: 5' - 0"

FLOOR AREA RATIO (FAR):
- 108,998 / 163,350 = .6672 (67%) < 75% MAX

LEGEND:

CONCRETE

ASPHALT

LANDSCAPE AREA - SEE LANDSCAPE PLAN

NOTES:

- ALL EXTERIOR LIGHTS TO BE LED FIXTURES AND WILL HAVE LIGHT CUTOFFS TO ELIMINATE THE AMOUNT OF ILLUMINATION

DENMAT HOLDINGS

② Guard Shack Reference
3/4" = 1'-0"

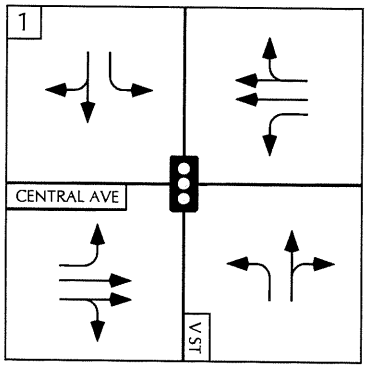
N
NOT TO SCALE

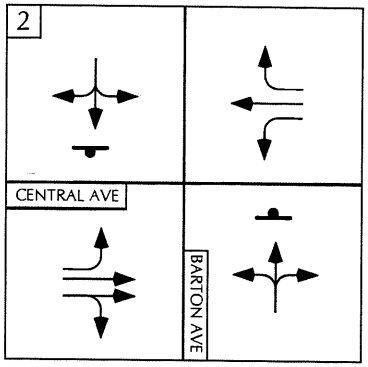
ASSOCIATED TRANSPORTATION ENGINEERS

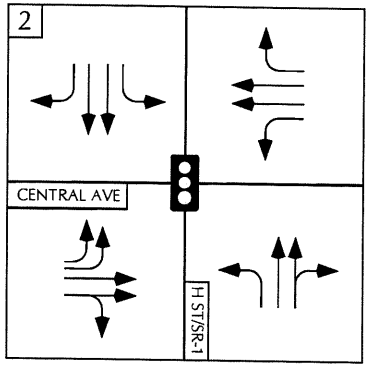
PROJECT SITE PLAN

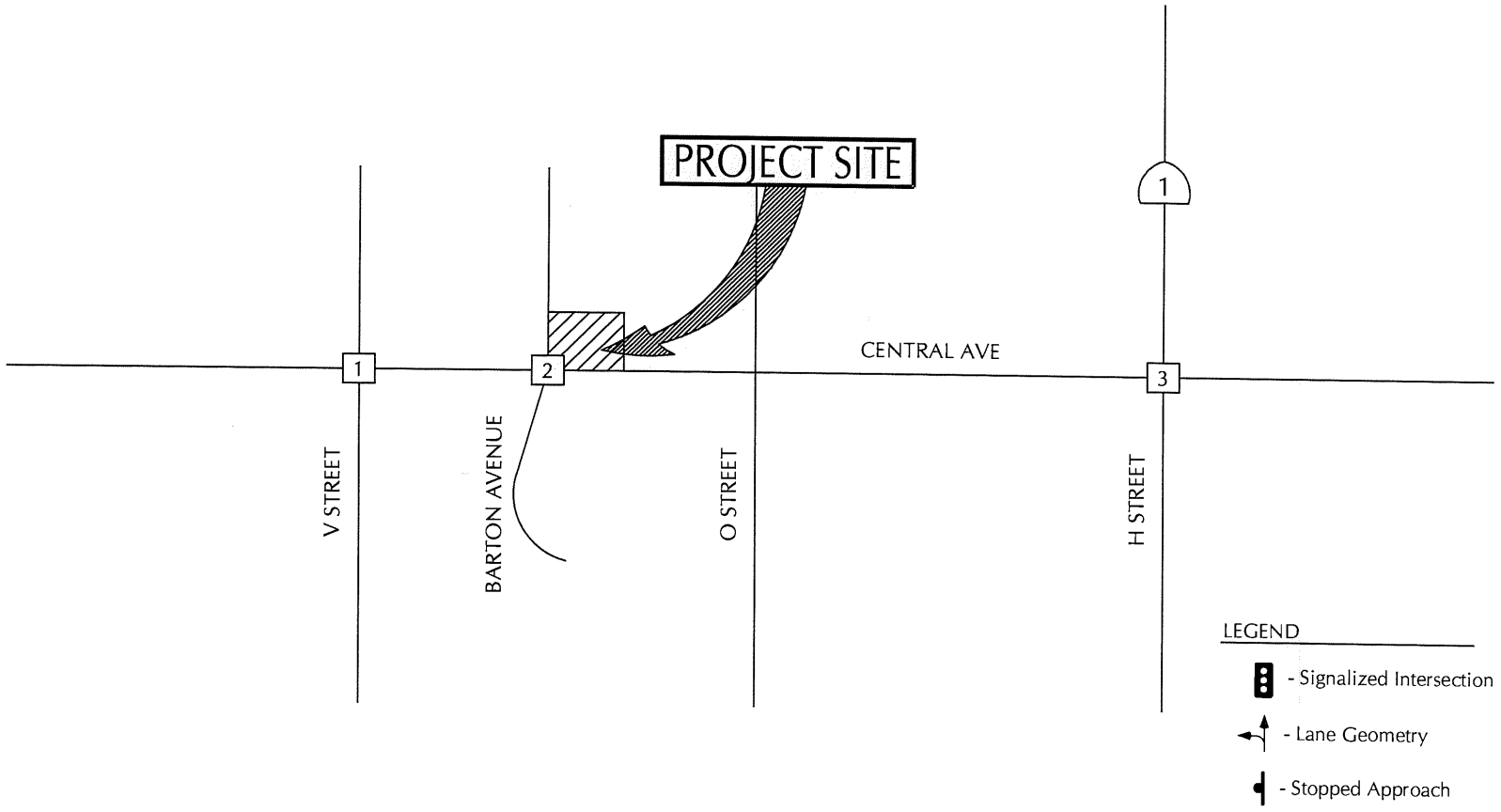
FIGURE 2

JH - ATE#20021









ASSOCIATED TRANSPORTATION ENGINEERS

EXISTING STREET NETWORK

FIGURE 3

JH - ATE#20021

Barton Avenue, located on the west side of the Project site, is a north-south street that is classified as a Minor Arterial street. South of Central Avenue, V Street contains one lane in each direction with on-street parking. North of Central Avenue, Barton Avenue is improved on the east side of the street and unimproved on the west side of the street.

Existing Levels of Service

Traffic operations are evaluated using a level of service (LOS) ranking scale. The letter scale ranges from A to F, with LOS A representing free flow conditions and LOS F representing congested conditions (more complete LOS definitions are contained in the Technical Appendix). Because traffic flow on the City's street network is most constrained at intersections, a detailed analysis of traffic flow must examine the operating conditions of critical intersections during peak travel periods. Morning and evening traffic counts establish the extent to which the existing peak hour intersection capacities are being utilized by existing traffic volumes, and the directional orientation of traffic in the area. The City's standard is to maintain intersection traffic at LOS C or better throughout the City.

Existing AM and PM peak hour turning volumes were collected for most of the study-area intersections in November 2019 and February 2020 (traffic count data is contained in the Technical Appendix). Volumes for the Central Avenue/Barton Avenue intersection were obtained from an older traffic study since new counts could not be collected due to the Covid 19 shutdown. Traffic volumes for this intersection were derived from older counts, which were adjusted upward to account for recent developments in the area.

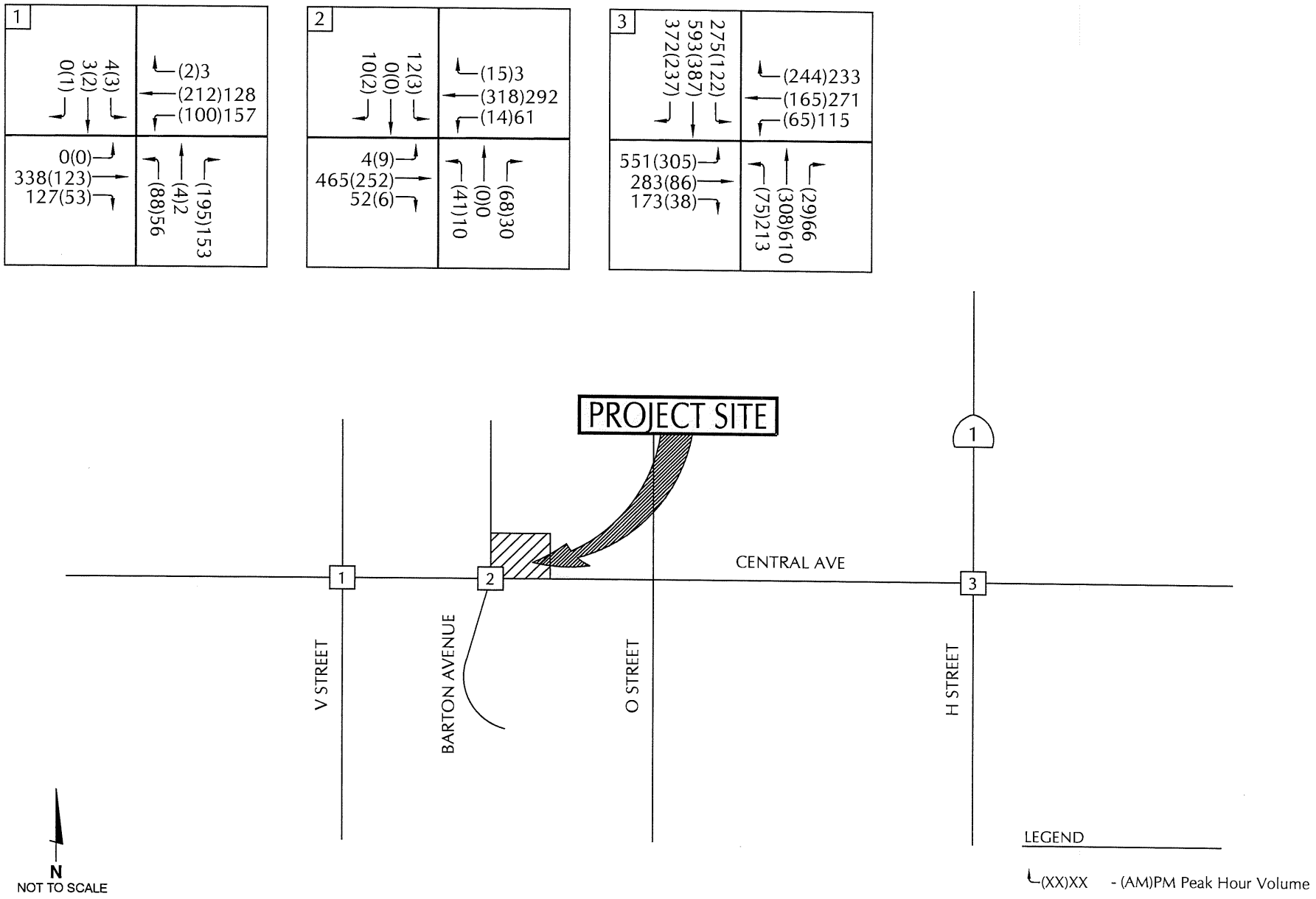
Figure 4 illustrates the Existing AM and PM peak hour turning volumes. As required by City policy, levels of service were calculated for the study-area intersections using the operations methodology outlined in the Highway Capacity Manual (HCM).[1] Levels of service are based on the average number of seconds of delay per vehicle during the peak one-hour period. Table 1 lists the Existing levels of service during the AM and PM peak hour periods (levels of service calculation worksheets are contained in the Technical Appendix for reference).

Table 1
Existing Levels of Service

Intersection	Control	Delay/LOS(a)	
		AM Peak Hour	PM Peak Hour
V Street/Central Avenue	Signal	12.9 Sec./LOS B	16.9 Sec./LOS B
Barton Avenue/Central Avenue	Stop-Sign	11.2 Sec./LOS B	11.1 Sec./LOS B
H Street/Central Avenue	Signal	27.1 Sec./LOS C	**41.4 Sec./LOS D**

(a) LOS based on average seconds of delay per vehicle.

[1] Highway Capacity Manual, Transportation Research Board, 6th Edition, 2016.



ASSOCIATED TRANSPORTATION ENGINEERS

EXISTING TRAFFIC VOLUMES

FIGURE 4

JH - ATE#20021

As shown in Table 1, the H Street/Central Avenue intersection currently operates at LOS D during the PM peak period – which exceeds the City of Lompoc's LOS C operating standard. The remaining intersections operates acceptably at LOS B during the AM and PM peak periods.

TRAFFIC STANDARDS

City of Lompoc Standards

Potential impacts for City facilities are evaluated based on the City's adopted criteria. As presented in the City of Lompoc General Plan, the City's traffic impact standard states: "The City shall maintain intersection traffic levels of service (LOS) at LOS C or better throughout the City, with the exception of intersections monitored in accordance with the Congestion Management Program (CMP) administered by the Santa Barbara County Association of Governments (SBCAG). CMP intersections shall maintain a LOS in accordance with the most recent CMP standards, when it can be demonstrated that all feasible mitigation measures have been applied to the project and LOS C, with said mitigation, cannot be achieved."

Caltrans Standards

The H Street/Central Avenue intersection is controlled and maintained by Caltrans since H Street is also a California state route (SR 1). The Caltrans minimum standard for traffic operations is the cusp of LOS C/LOS D.

PROJECT-SPECIFIC ANALYSIS

Project Trip Generation

Trip generation estimates were calculated for the Project using rates published in the Institute of Transportation Engineers (ITE) Trip Generation Manual.[2] The ITE rates for Manufacturing uses (Land Use #140)) were used for the trip generation analysis. Table 2 presents trip generation estimates for the Project (a detailed worksheet is contained in the Technical Appendix for reference).

Table 2
Project Trip Generation

Land Use	Size	ADT		AM Peak Hour		PM Peak Hour	
		Rate	Trips	Rate	Trips (in/Out)	Rate	Trips (In/Out)
Manufacturing	109.000 SF	3.93	428	0.62	68 (52/16)	0.67	73 (23/50)

Notes: Rates are per 1,000 of building area.

[2] Trip Generation Manual, Institute of Transportation Engineers, 10th Edition, 2017.

As shown in Table 2, the Project is forecast to generate 428 average daily trips (ADT), 68 AM peak hour trips and 73 PM peak hour trips.

Project Trip Distribution

Trip distribution percentages were developed for the Project based on existing traffic patterns in the area, consideration of the surrounding population centers, and the street network layout in the Project vicinity. The trip distribution pattern developed for the Project is presented in Table 3. The distribution pattern and the assignment of Project traffic to the study-area street network is shown on Figure 5. Existing + Project traffic volumes are illustrated on Figure 6.

Table 3
Project Trip Distribution

Origin/Destination	Direction	Distribution %
SR 1	North	15%
H Street	South	35%
O Street	South	15%
V Street	South	15%
Barton Street	South	10%
Central Avenue	East West	5% 5%
Total		**100%**

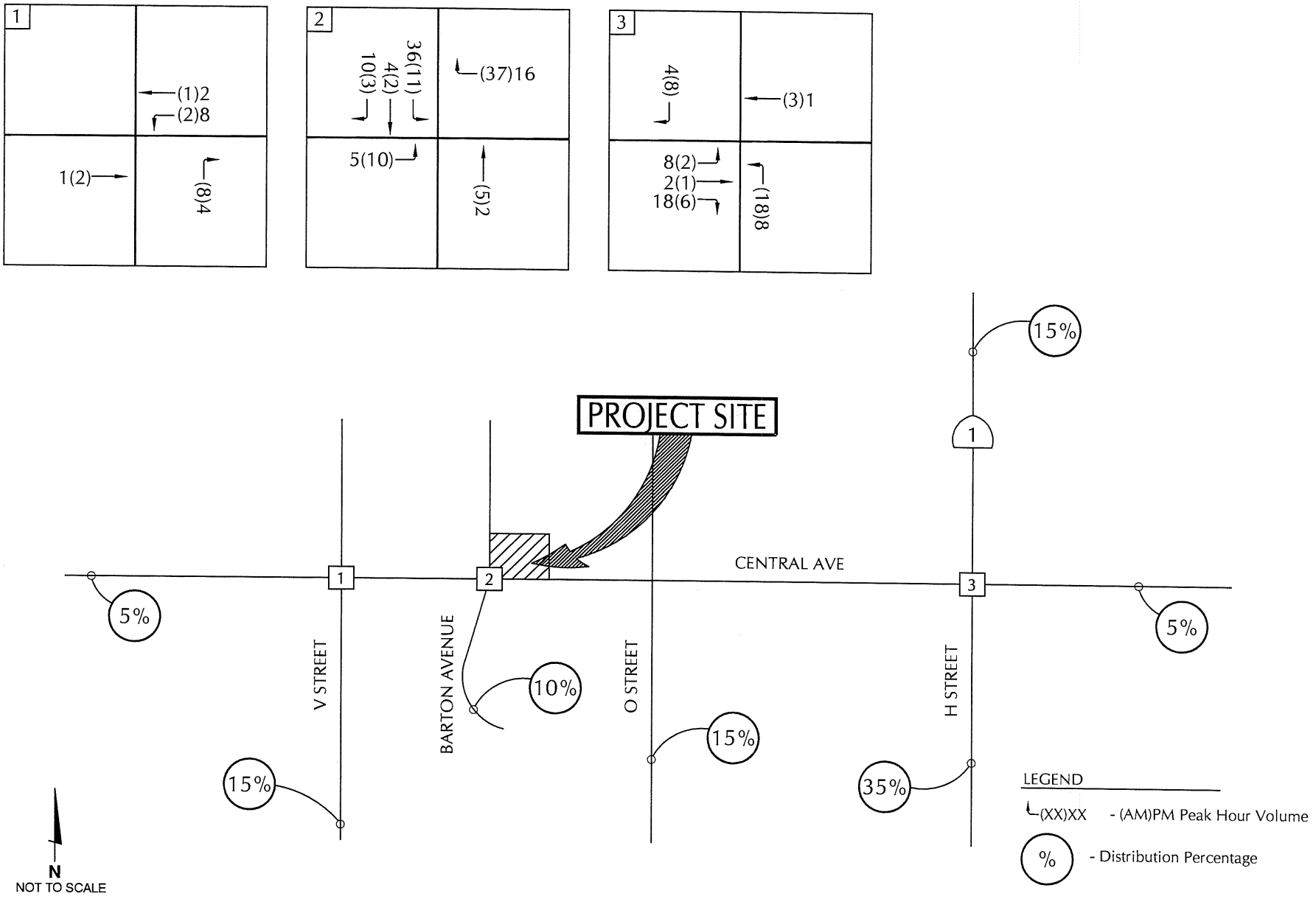
Existing + Project Levels of Service

Levels of service were calculated for the study-area intersections assuming the Existing + Project traffic volumes shown on Figure 6. Tables 4 and 5 compare the Existing and Existing + Project levels of service and identify impacts based on the applicable standards.

Table 4
Existing + Project Levels of Service – AM Peak Hour

Intersection	Delay/LOS(a)		Project Added Trips	Exceed Standard?
	Existing	Existing + Project		
V Street/Central Avenue	12.9 Sec./LOS B	12.9 Sec./LOS B	13	NO
Barton Avenue/Central Avenue	11.2 Sec./LOS B	11.9 Sec./LOS B	68	NO
H Street/Central Avenue	27.1 Sec./LOS C	27.9 Sec./LOS C	38	NO

(a) LOS based on average seconds of delay per vehicle.

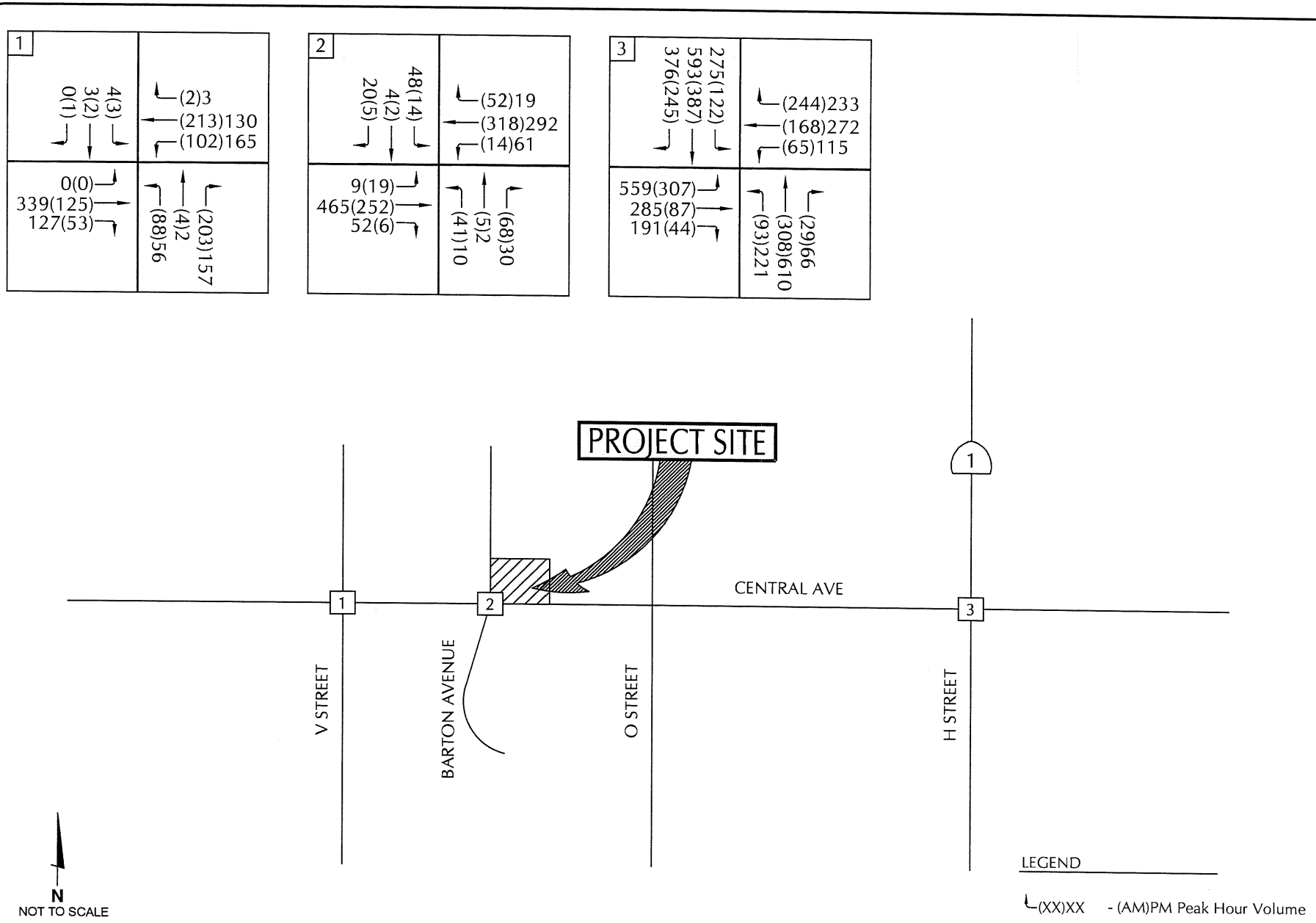


ASSOCIATED TRANSPORTATION ENGINEERS

PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

FIGURE 5

JH - ATE#20021



ASSOCIATED TRANSPORTATION ENGINEERS

EXISTING + PROJECT TRAFFIC VOLUMES

FIGURE 6

JH - ATE#20021

Table 5
Existing + Project Levels of Service – PM Peak Hour

Intersection	Delay/LOS(a)		Project Added Trips	Exceed Standard?
	Existing	Existing + Project		
V Street/Central Avenue	16.9 Sec./LOS B	17.0 Sec./LOS B	15	NO
Barton Avenue/Central Avenue	11.1 Sec./LOS B	14.1 Sec./LOS B	73	NO
H Street/Central Avenue	**41.4 Sec./LOS D**	**42.1 Sec./LOS D**	**41**	**YES**

(a) LOS based on average seconds of delay per vehicle.

Bolded values exceed adopted LOS standards.

Table 4 shows that the study-area intersections are forecasts to operate at LOS C or better during the AM peak period, which meet the City and Caltrans standards. Table 5 shows that the H Street/Central Avenue intersection is forecast to continue to operate at LOS D during the PM peak period, which exceeds the City of Lompoc's and Caltrans LOS C operating standards. The Project would add 41 trips to the intersection during the PM peak hour and increase the delay by 0.7 seconds. Improvements programmed by the City for this intersection are reviewed under Mitigation Measures.

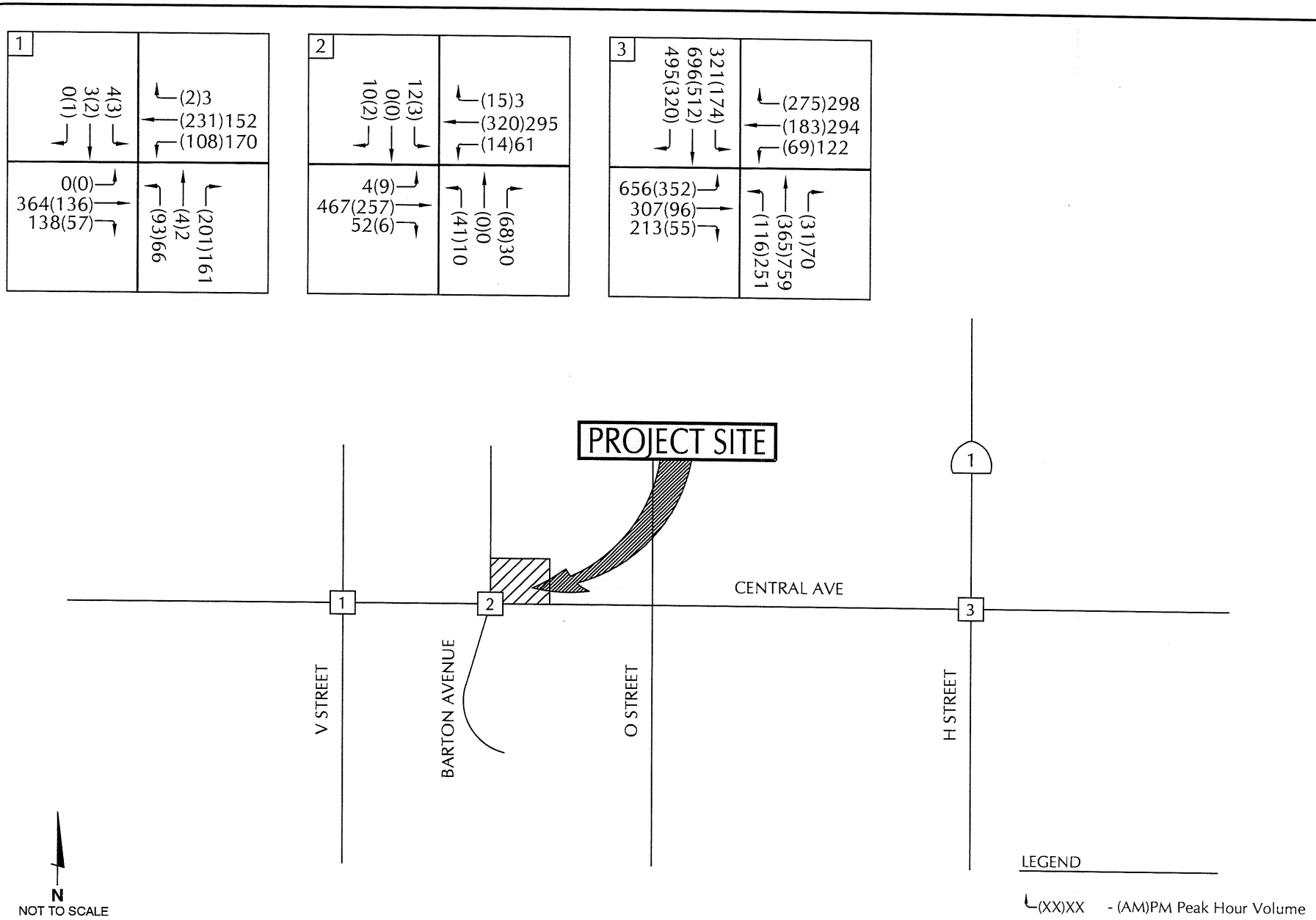
CUMULATIVE ANALYSIS

Cumulative Traffic Forecasts

Cumulative traffic forecasts were developed based on a list of approved and pending projects provided by City staff (copy included in the Technical Appendix). In addition, there is a 68,739 SF development (Mustang Lompoc Investors project proposed for cultivation, processing and distribution of cannabis) proposed on Cordoba Avenue that was added to the cumulative forecasts. Figure 7 presents the Cumulative traffic volumes. Project traffic was then added to the Cumulative forecasts to develop the Cumulative + Project volumes, which are shown on Figure 8.

Cumulative Levels of Service

Levels of service were calculated for the study-area intersections assuming the Cumulative and Cumulative + Project traffic volumes shown on Figures 7 and 8. Tables 6 and 7 compare the Cumulative and Cumulative + Project levels of service an identify potential impacts based on applicable standards.

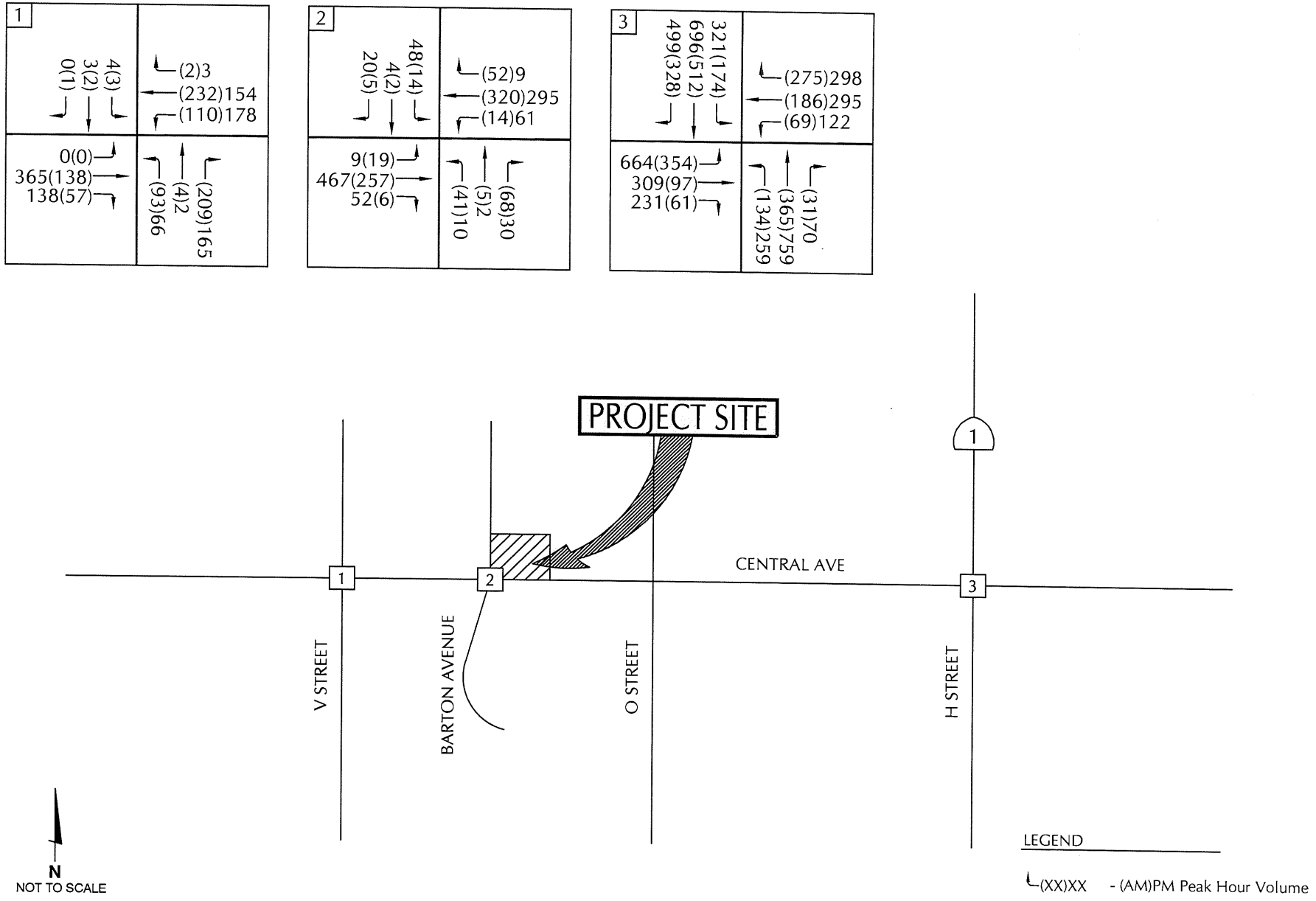


ASSOCIATED TRANSPORTATION ENGINEERS

CUMULATIVE TRAFFIC VOLUMES

FIGURE 7

JH - ATE#20021



ASSOCIATED TRANSPORTATION ENGINEERS

CUMULATIVE + PROJECT TRAFFIC VOLUMES

FIGURE 8

JH - ATE#20021

Table 6
Cumulative Levels of Service – AM Peak Hour

Intersection	Delay/LOS(a)		Project Added Trips	Exceed Standard?
	Cumulative	Cumulative + Project		
V Street/Central Avenue	13.2 Sec./LOS B	13.4 Sec./LOS B	13	NO
Barton Avenue/Central Avenue	11.3 Sec./LOS B	11.8 Sec./LOS B	68	NO
H Street/Central Avenue	**40.1 Sec./LOS D**	**41.3 Sec./LOS D**	**38**	**YES**

(a) LOS based on average seconds of delay per vehicle.

Bolded values exceed adopted LOS standards.

Table 7
Cumulative Levels of Service – PM Peak Hour

Intersection	Delay/LOS(a)		Project Added Trips	Exceed Standard?
	Cumulative	Cumulative + Project		
V Street/Central Avenue	17.2 Sec./LOS B	17.3 Sec./LOS B	15	NO
Barton Avenue/Central Avenue	11.2 Sec./LOS B	14.2 Sec./LOS B	73	NO
H Street/Central Avenue	**67.7 Sec./LOS E**	**70.1 Sec./LOS E**	**41**	**YES**

(a) LOS based on average seconds of delay per vehicle.

Bolded values exceed adopted LOS standards.

As shown, the H Street/Central Avenue intersection is forecast to operate at LOS D during the AM peak hour and LOS E during the PM peak hour – which exceeds the City's LOS C operating standard. Improvements that have been identified for the intersection by the City are reviewed in the Programed Improvements section of this report.

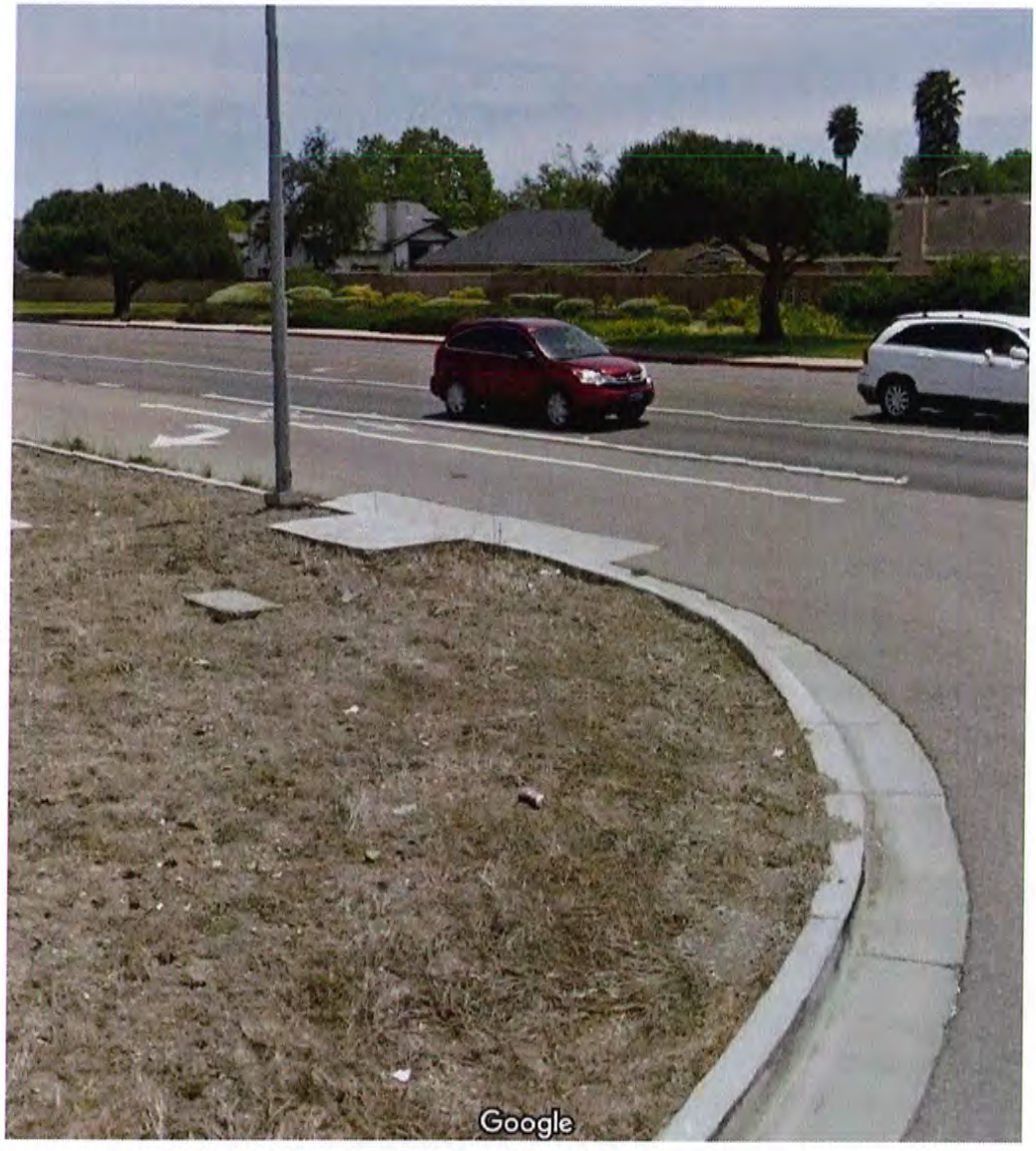
SIGNAL WARRANTS

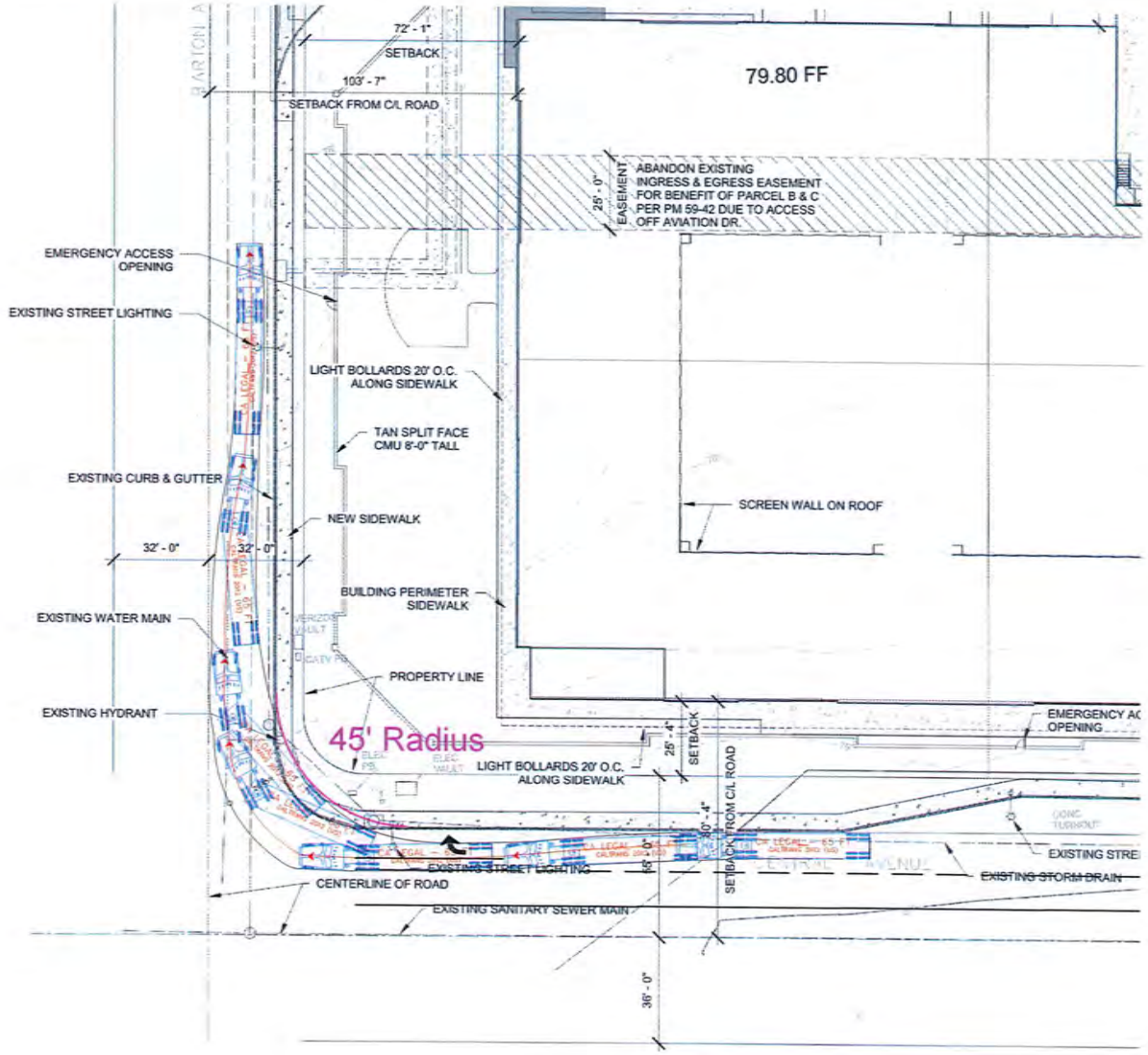
Signal warrants were performed for the Barton Avenue/Central Avenue intersection to determine if signalization of the intersection is necessary to accommodate the Cumulative + Project traffic forecasts. The traffic signal warrant analysis is based on the criteria outlined in the 2014 CAMUTCD. The rural warrant was used as the posted speed on Central Avenue is 45 MPH. The traffic volumes at the intersection are well below the peak hour signal warrant criteria (see warrant worksheet contained in the Technical Appendix). Furthermore, the intersection is forecast to operates at LOS B during the AM and PM peak periods with Cumulative + Project traffic, indicating relatively good operations assuming the existing Stop sign controls.

SITE ACCESS

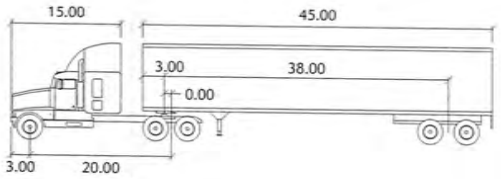
Vehicular access is proposed via one new driveway on Barton Avenue (see Figure 2 – Project Site Plan). Barton Avenue is flat and straight adjacent to the site access driveway, which provides adequate sight distances for turning to/from the site. The volumes on Barton Avenue are fairly low (less than 1,000 ADT) and the driveway is forecast to operate in the LOS A range.

A truck turn analysis was completed using the "AutoTurn" software to determine if the existing design of the northeast corner of the Barton Avenue/Central Avenue intersection can accommodate truck movements from Central Avenue to Barton Avenue. There is a westbound right-turn lane and bike lane at the intersection and the existing corner radius is approximately 30 feet. There is also a street-light pole located adjacent to the curb approximately 10 feet east of the curb-return.





EXISTING RESIDENTIAL PROPERTIES



CA LEGAL - 65 FT

	feet		
Tractor Width	: 8.50	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 26.3
Tractor Track	: 8.50	Articulating Angle	: 70.0
Trailer Track	: 8.50		

N
NOT TO SCALE

ASSOCIATED TRANSPORTATION ENGINEERS

BARTON AVENUE/CENTRAL AVENUE TRUCK TURN ANALYSIS

FIGURE 9

JH - ATE#20021

The AutoTurn analysis was completed using a California Legal 65-foot design vehicle. Figure 9 shows the results of the turn analysis. As shown, the existing 30-foot corner radius would not accommodate a 65-foot truck turning from the right-turn lane onto Barton Avenue. The minimum radius required to accommodate the truck turn is 45 feet (see Figure 9).

PROGRAMMED IMPROVEMENTS

H Street/Central Avenue. The traffic analysis found that the H Street/Central Avenue intersection currently operates at LOS D during the PM peak hour and is forecast degrade to LOS E with Cumulative traffic volumes. The City has developed an improvement plan for the intersection, which includes installing dual left-turn lanes on the northbound and southbound approaches at the intersection. Table 8 shows the Existing + Project and Cumulative + Project levels of service for the intersection assuming the planned improvement.

Table 8
H Street/Central Avenue – Mitigated Levels of Service

Intersection	PM Peak Hour Delay / LOS	
	Existing + Project	Cumulative + Project
H St/Central Ave	34.2 Sec./LOS C	38.5 Sec./LOS D

The Project's contribution to the programmed improvement was calculated using Caltrans' fair-share contribution formula provided in their traffic study guidelines.[3] The Caltrans' fair-share formula is:

$$\frac{\text{Project Trips}}{\text{Cumulative + Project Volume - Existing Volume}}$$

The Project's fair-share percent contribution to the planned improvement would be 2.5% based on entering volumes during the PM peak hour period (worksheet contained in Technical Appendix).

■ ■ ■

[3] Guide for the Preparation of Traffic Impact Studies, Caltrans, December 2002.

REFERENCES AND PERSONS CONTACTED

Associated Transportation Engineers

Scott A. Schell, Principal Transportation Planner
Dan Dawson, Senior Transportation Planner
Jiho Ha, Transportation Engineer I

References

Highway Capacity Manual, Transportation Research Board, 2016.

Guide for the Preparation of Traffic Impact Studies, Caltrans, December 2002.

Trip Generation Manual, Institute of Transportation Engineers, 10th Edition, 2017.

TECHNICAL APPENDIX

CONTENTS:

LEVEL OF SERVICE DEFINITIONS

TRAFFIC COUNTS

PROJECT TRIP GENERATION

TRAFFIC SIGNAL WARRANTS

CUMULATIVE PROJECT INFORMATION

H STREET/CENTRAL AVENUE FAIR-SHARE CALCULATION WORKSHEET

LEVEL OF SERVICE CALCULATION WORKSHEETS

Reference 1 – Central Avenue/V Street
Reference 2 – Central Avenue/Barton
Reference 3 – Central Avenue/H Street

LEVEL OF SERVICE DEFINITIONS

Signalized Intersection Level of Service Definitions

LOS	Delay (a)	V/C Ratio	Definition
A	< 10.0	< 0.60	Progression is extremely favorable. Most vehicles arrive during the green phase. Many vehicles do not stop at all.
B	10.1 - 20.0	0.61 - 0.70	Good progression, short cycle lengths, or both. More vehicles stop than with LOS A, causing higher levels of delay.
C	20.1 - 35.0	0.71 - 0.80	Only fair progression, longer cycle lengths, or both, result in higher cycle lengths. Cycle lengths may fail to serve queued vehicles, and overflow occurs. Number of vehicles stopped is significant, though many still pass through intersection without stopping.
D	35.1 - 55.0	0.81 - 0.90	Congestion becomes more noticeable. Unfavorable progression, long cycle lengths and high v/c ratios result in longer delays. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
E	55.1 - 80.0	0.91 - 1.00	High delay values indicate poor progression, long cycle lengths and high v/c ratios. Individual cycle failures are frequent
F	> 80.0	> 1.00	Considered unacceptable for most drivers, this level occurs when arrival flow rates exceed the capacity of lane groups, resulting in many individual cycle failures. Poor progression and long cycle lengths may also contribute to high delay levels.

(a) Average control delay per vehicle in seconds.

Unsignalized Intersection Level of Service Definitions

The HCM[1] uses *control delay* to determine the level of service at unsignalized intersections. Control delay is the difference between the travel time actually experienced at the control device and the travel time that would occur in the absence of the traffic control device. Control delay includes deceleration from free flow speed, queue move-up time, stopped delay and acceleration back to free flow speed.

LOS	Control Delay Seconds per Vehicle
A	< 10.0
B	10.1 - 15.0
C	15.1 - 25.0
D	25.1 - 35.0
E	35.1 - 50.0
F	> 50.0

[1] Highway Capacity Manual, National Research Board, 2010

TRAFFIC COUNTS

Prepared by National Data & Surveying Services

SR 1 & Central Ave

Peak Hour Turning Movement Count

ID: 19-02091-006
City: Lompoc

Day: Tuesday
Date: 11/26/2019

PEAK HOURS

AM: 07:30 AM - 08:30 AM
NOON: NONE
PM: 04:30 PM - 05:30 PM

COUNT PERIODS

AM: 07:00 AM - 09:00 AM
NOON: NONE
PM: 04:00 PM - 06:00 PM

SR 1

SOUTHBOUND

AM	237	387	120	2	858	AM
NOON	0	0	0	0	0	NOON
PM	372	593	263	12	1397	PM

EASTBOUND (Central Ave)

AM	NOON	PM	
470	0	854	⇦
1	0	9	↰ 0
304	0	542	↱ 0
86	0	283	→ 0
38	0	173	↴ 0

AM NOON PM

WESTBOUND (Central Ave)

PM	NOON	AM	
233	0	244	↰ 0
271	0	165	← 0
115	0	65	↶ 0
0	0	0	↱ 0
612	0	235	⇨

PM NOON AM

CONTROL: Signalized

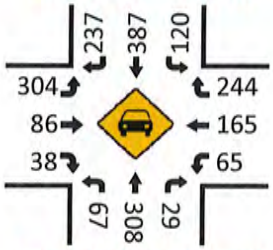
TEV	2061 AM	0 NOON	3755 PM
PHF	0.89		0.97

NORTHBOUND

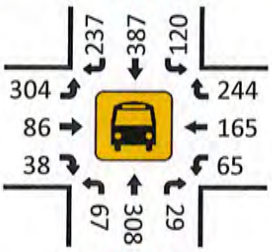
PM	892	11	202	610	66	PM
NOON	0	0	0	0	0	NOON
AM	498	8	67	308	29	AM

SR 1

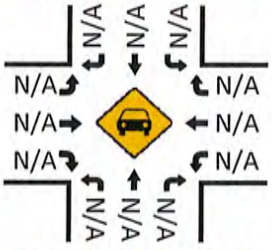
Total Vehicles (AM)



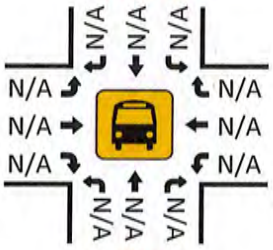
(AM)



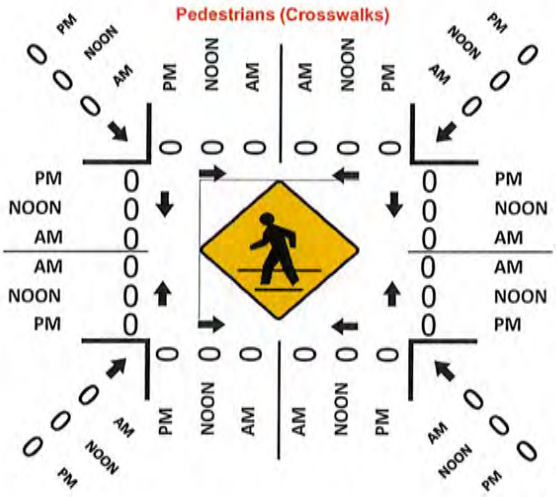
Total Vehicles (Noon)



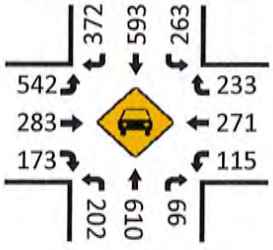
(NOON)



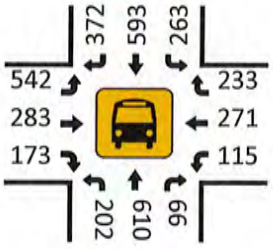
Pedestrians (Crosswalks)



Total Vehicles (PM)



(PM)



Prepared by National Data & Surveying Services

V St & W Central Ave

Peak Hour Turning Movement Count

ID: 20-02004-001
City: Lompoc

Day: Thursday
Date: 02/27/2020

PEAK HOURS		COUNT PERIODS
AM	07:15 AM - 08:15 AM	07:00 AM - 09:00 AM
NOON	NONE	NONE
PM	04:00 PM - 05:00 PM	04:00 PM - 06:00 PM

V St — SOUTHBOUND

	Right	Through	Left	U-turn	Exiting (northbound)
AM	1	2	3	0	6
NOON	0	0	0	0	0
PM	0	3	4	0	5
Lanes	0.5	0.5	1	0	

W Central Ave — EASTBOUND

	AM	NOON	PM	Lanes
Exiting (westbound)	301	0	184	
U-turn	0	0	0	0
Left	0	0	0	1
Through	123	0	338	2
Right	53	0	127	0

W Central Ave — WESTBOUND

	PM	NOON	AM	Lanes
Right	3	0	2	0
Through	128	0	212	1
Left	157	0	100	1
U-turn	0	0	0	0
Exiting (eastbound)	495	0	321	

V St — NORTHBOUND

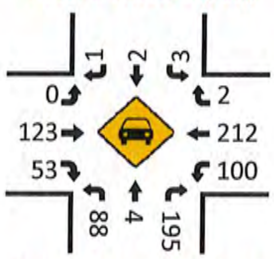
	Exiting (southbound)	U-turn	Left	Through	Right
Lanes		0	1	0.5	0.5
PM	287	0	56	2	153
NOON	0	0	0	0	0
AM	155	0	88	4	195

CONTROL

Signalized

	AM	NOON	PM
TEV	783	0	971
PHF	0.89		0.94

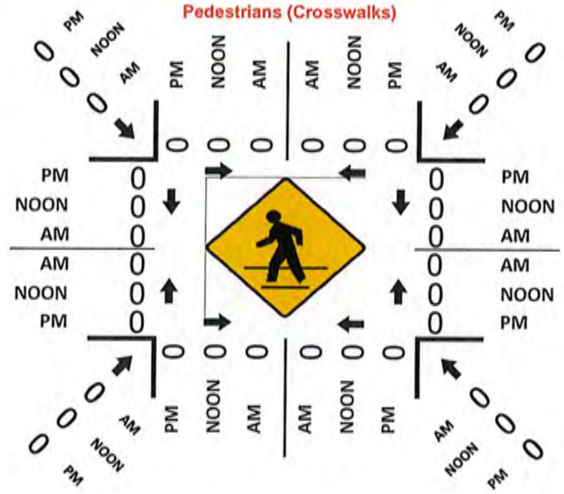
Total Vehicles (AM)



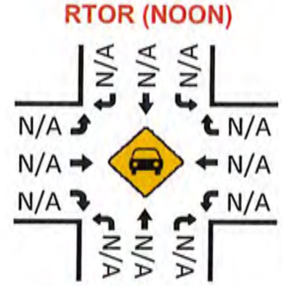
RTOR (AM)

Total Vehicles (Noon)

Pedestrians (Crosswalks)

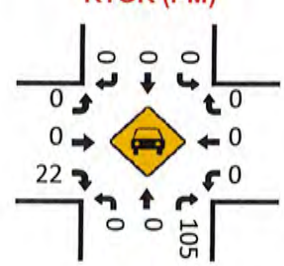


RTOR (NOON)



Total Vehicles (PM)

RTOR (PM)



ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

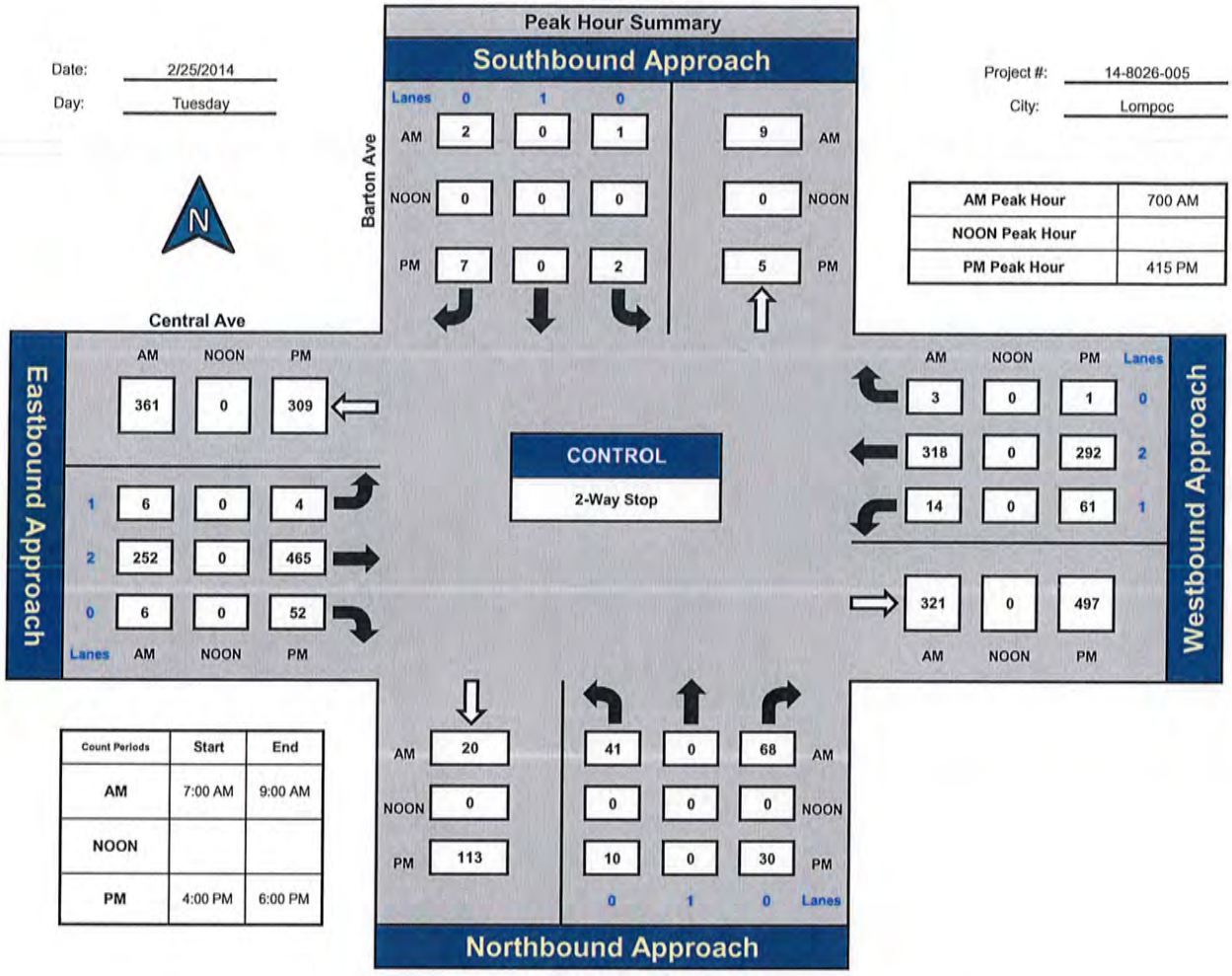
Barton Ave and Central Ave , Lompoc

Date: 2/25/2014

Day: Tuesday

Project #: 14-8026-005

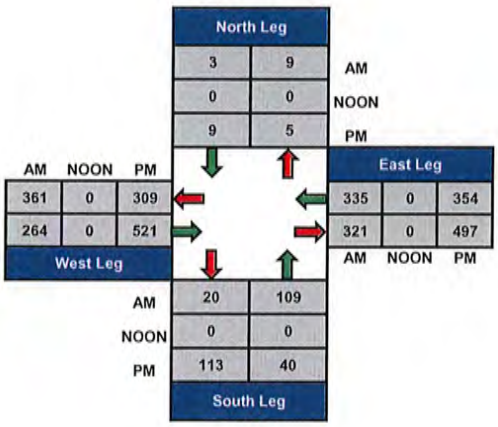
City: Lompoc



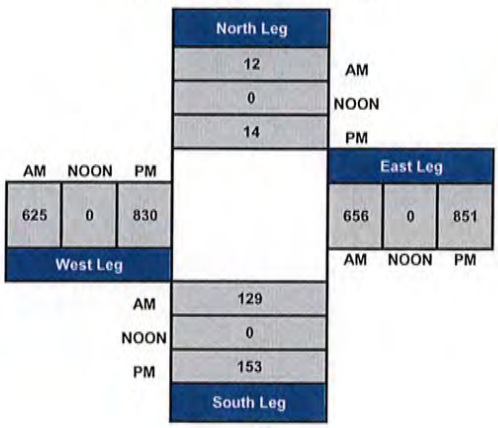
AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	415 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



PROJECT TRIP GENERATION

Associated Transportation Engineers
Trip Generation Worksheet

ORGANIC LIBERTY PROJECT #20021

Use	Size	ADT		AM PEAK HOUR						PM PEAK HOUR					
		Rate	Trips	Rate	Trips	In %	Trips	Out %	Trips	Rate	Trips	In %	Trips	Out %	Trips
Manufacturing	109,000 SF	3.93	428	0.62	68	77%	52	23%	16	0.67	73	31%	23	69%	50

TRAFFIC SIGNAL WARRANTS

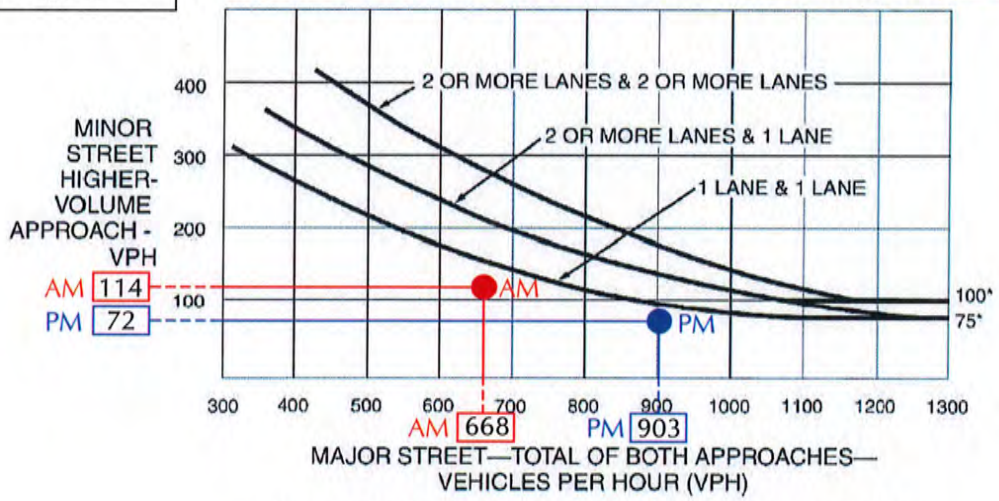
Figure 4C-3. Warrant 3, Peak Hour

*Note: 150 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor-street approach with one lane.

Central Ave and Barton Ave
Cumulative + Project

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

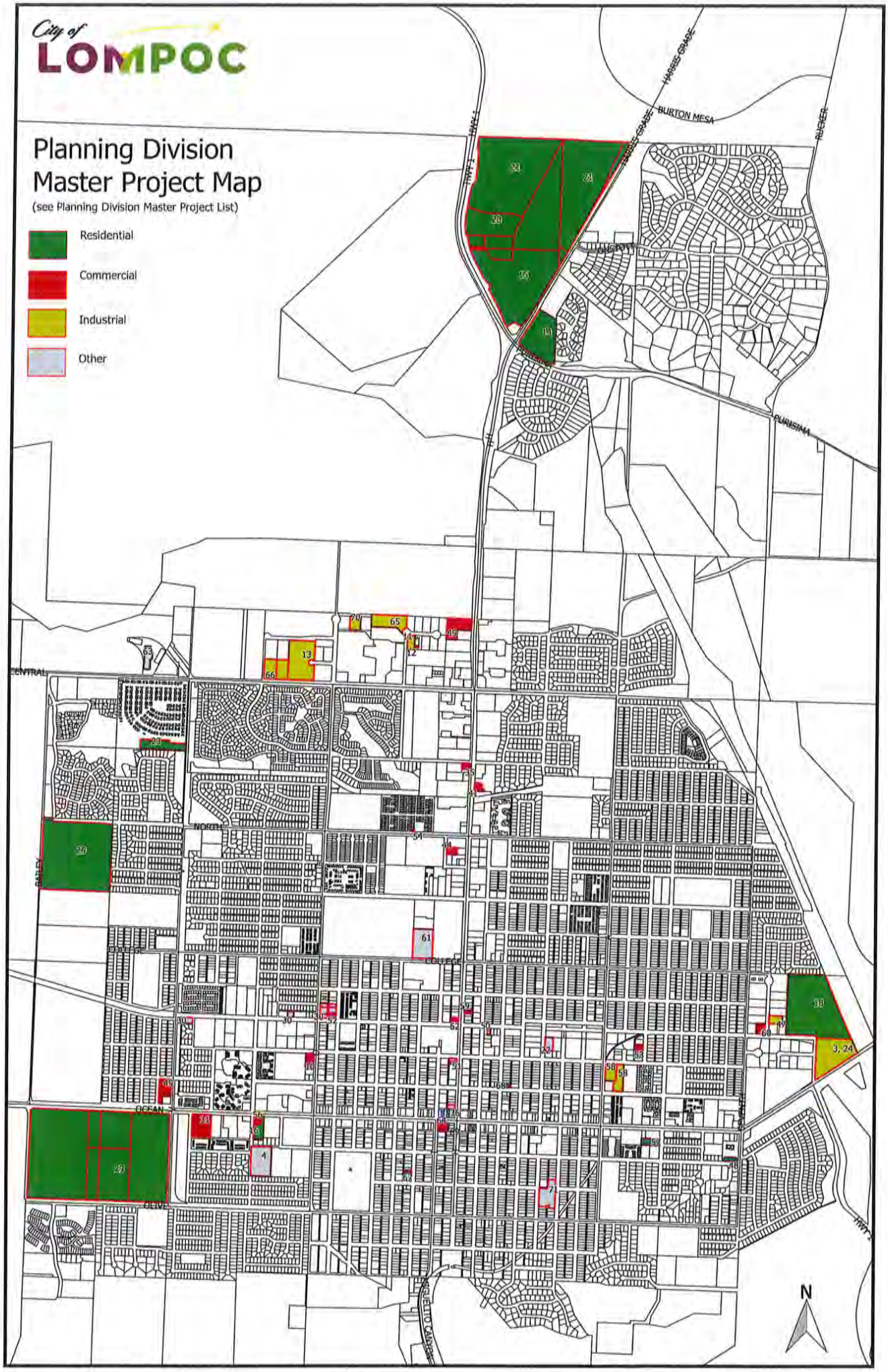
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 40 MPH ON MAJOR STREET)



*Note: 100 vph applies as the lower threshold volume for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold volume for a minor-street approach with one lane.

Not Warranted

CUMULATIVE PROJECT INFORMATION


City of LOMPOC
Planning Division
Master Project Map
(see Planning Division Master Project List)
Residential
Commercial
Industrial
Other
HARRIS GRADE
BURTON MESA
RUCKER
HWY 1
PURISIMA
CENTRAL
NORTH
BAILEY
COLLEGE
OCEAN
OLIVE
N

City of LOMPOC

Community Development Department – Planning Division Memorandum

DATE: April 2, 2020

FROM: Brian Halvorson, Planning Manager

TO: Jim Throop, City Manager

SUBJECT: Master Project List

Projects Completed / Withdrawn / Expired

Project Name / No. / Location / Contact / Project Planner	Status	Description	Notes	Map No.	Building Permit	Grading Permit	Stormwater Permit
Ryon Park – Verizon WCF **CUP 14-06** 1050 West Cypress Avenue Contact: Melissa Samarin (562) 458-1944 melissa.samarin@sequoia-ds.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	PC approved 3/11/15	72 ft. high light pole with 6 new antennas, an equipment shelter, and generator	Contacted applicant on 1/4/18 requesting update on status of the performance agreement and radio frequency radiation report Attempted contact on 2/7/18 to request outstanding items, email was undeliverable and a voicemail was left	4.	B2016-0062 Appl: 2/3/16 Appr: 7/25/16 Issued: 7/25/16 Finaled: 3/3/17		
The Compound Martial Arts & Fitness Center **CUP 17-02** 432 Commerce Court Alexander Ur 805-403-8925 ALB745@yahoo.com Planner: Greg Stones (805) 875-8277 g_stones@ci.lompoc.ca.us	PC approved 6/14/17	7,740 sq. ft. martial arts and fitness center in an existing multi-tenant industrial building	Building staff will contact applicant to remind them to pick up the C of O. Per Fire Dept they need to add water closet.	12.	B2017-0522 Appl: 11/30/17 Appr: 12/14/17 Issued: 5/2/18 Finaled: 7/27/18		

Projects Under Construction

Project Name / No. / Location / Contact / Project Planner	Status	Description	Notes	Map No.	Building Permit	Grading Permit	Stormwater Permit
Santa Rita Hills Wine Center **DR 12-01 / CUP 12-01** **CUP 12-02** 300 North Twelfth Street Contact: Steve Zotovich (949) 271-1775 szotovich@peregrinerp.com Planner: Greg Stones (805) 875-8273 b_halvorson@ci.lompoc.ca.us	PC approved 3/14/12	76,560 sq. ft. project including warehousing, wine tasting and office in 4 buildings	Phase 1 for the wine storage and production facility of the Santa Rita Wine Center is complete. Tenant improvements for current wineries have been finalized. The applications for Phases 2-4, which include a resort hotel-spa and retail buildings, will be submitted for review at a later date.	3.		GRA2013-0003 Appl: 3/4/13 Appr: 4/17/13 Issued: 4/22/13 Finaled: 12/11/13	*Phase I PCR infiltration area
Daycare in existing Church **CUP 16-02** 231 North O Street Contact: Maria L. Ruano (805) 315-1901 mruano99@yahoo.com Planner: Greg Stones (805) 875-8277 g_stones@ci.lompoc.ca.us	PC approved 1/11/17	3,253 sq. ft. child daycare addition to an existing church facility	Under construction Call for final inspections on 11/7/18 Revised sheets submitted for building permit review on 5/8/19 – corrections provided to applicant.	10.	B2017-0318 Appr: 1/16/18 Issued: 1/19/18 Revised sheets Appr: 5/21/19	GRA2017-0005 Appr: 11/29/17 Issued: 11/30/17	
Wine Storage Warehouse **DR 16-06** 440 Commerce Court Contact: Michelle Rodriguez (909) 827-2520 al@ameriantraffiproducts.com Planner: Greg Stones (805) 875-8277 g_stones@ci.lompoc.ca.us	PC approved 1/11/17	13,906 sq. ft. wine warehouse including storage and production for up to three tenants	Under construction Various inspections are being conducted	11.	B2017-0433 Appr: 4/24/18 Issued: 5/22/18 B2019-0299 Appl: 4/5/19 Corr: 4/17/19 Appl: 10/7/19 Corr: 10/28/19 Appl: 11/15/19 Corr: 11/18/19 Appl: 3/11/20 Corr: 3/31/20	GRA2017-0006 Appr: 5/1/18 Issued: 5/22/18	

Del's Burgers **MUP 18-02** 107 North V Street Jerome White (805) 450-1100 jer.white@sbcglobal.net Planner: Greg Stones (805) 875-8227 g_stones@ci.lompoc.ca.us	DRB approved 8/1/18	Restaurant with on-site alcohol sales and consumption	Under construction – tenant improvement Various inspections are being conducted.	45.	B2018-0327 Appr: 11/6/18 Issued: 2/4/19		
Community Health Center **GP 17-02, ZC 17-02, DR 17-02, LOM 690** 1300 West Ocean Avenue Pam Ricci (805) 543-1794 paricci@rrmdesign.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	PC approved 2/14/18 CC review 3/20/18 (GP/ZC) CC approved 2nd review 11/20/18	28,000 sq. ft. medical health care center with parking and landscaping	Payment for City Services Agreement signed 10/31/18 Ground breaking ceremony 3/1/19 Under construction Various inspections are being conducted.	31.	B2017-0692 Appr: 12/20/18 Issued: 1/24/19	GRA2017-0009 Appr: 12/19/18 Issued: 1/24/19	
CLH Retail Solutions Dispensary **CUP 19-01** 321 North Second Street (situs: 311 North Second Street) Contact: Liz Rogan (805) 708-3509 lizrogan@gmail.com Planner: Greg Stones (805) 875-8227 g_stones@ci.lompoc.ca.us	PC approved 4/10/19	Proposed dispensary in the Industrial zone	COA signed by applicant 4/22/19 Under construction	53.	B2019-0434 Appr: 9/11/19 Issued: 9/11/19		
Verizon Cell Site (in the Right-of-Way) **DR 19-02** 321 West North Avenue Contact: Kristina Demolli (916) 600-9610 kristina.dmeolli@sacw.com Planner: Greg Stones (805) 875-8227 g_stones@ci.lompoc.ca.us	Staff approved 7/18/19	Proposed Verizon cell site in the right-of-way	Under construction	54.	B2019-0600 Appr: 11/25/19 Issued: 11/25/19		

Projects Approved by Council / Commission / Staff / in Plan Check							
Project Name / No. / Location / Contact / Project Planner	**Status**	**Description**	**Notes**	**Map No.**	**Building Permit**	**Grading Permit**	**Stormwater Permit**
Burger King Re-Model **DR 17-08** 1153 North H Street Wayne Burke (818) 203-8342 wburke@cfm.com Planner: Greg Stones (805) 875-8277 g_stones@ci.lompoc.ca.us	PC approved 2/14/18 Time extension for architecture extended to 2/14/21	Remodel the exterior of an existing Burger King restaurant	Applicant notified of approved building permit and to pay required fees prior to issuance 2/12/19. This permit has expired.	35.	B2018-0070 Appl: 1/25/19 Appr: 2/8/19 Expired: 2/12/19		
Summit View Homes 44 new residential units **DR 12-04, LOM 594, Annex No 78, GP 12-01, ZC 12-01** Northeast corner of Harris Grade Rd & Purisima Rd Contact: Pat McCarthy (805) 485-4646 pat@gomccarthy.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	LAFCO approved 1/7/16 PC approved 6/29/16 CC approved 7/19/16 DA CC approved 7/19/16 and effective until 7/19/36	44 unit residential development for Summit View Homes	Map time extension approved to 2036 CC review of CFD 10/16/18, 11/20/18 & 12/4/18 Model homes under construction.	14.	B2018-0270 Appr: 10/2/19 B2019-0712 Appl: 8/26/19 Issued: 11/15/19 B2019-0713 Appl: 8/26/19 Issued: 11/15/19 B2019-0774 Issued: 11/15/19 B2019-0775 Issued: 11/15/19 B2019-0779 Issued: 11/15/19 B2019-0780 Issued: 11/15/19 B2019-0781 Appl: 9/20/19 Corr: 10/21/19 Appl: 12/17/19 Appr: 2/5/20	GRA2018-0002 Appr: 6/25/19 Issued: 7/2/19 GRA2019-0001 (Rough Grading) Appl: 1/22/19 Issued: 1/30/19	Will be subject to PCRs and SWPPP. SW2018-0003 Appl: 1/23/19 Appr: 1/29/19 Issued: 7/3/19

Warehouse **DR 16-01** 1016 West Aviation Drive Contact: Steve Zotovich / Kathy Dankin (949) 271-1775 szotovich@peregrinerp.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	PC approved 6/15/16 Time extension approved to 6/15/20	31,119 sq. ft. building for wine production and storage		13.	B2019-0479 Appl: 6/10/19 Corr: 6/28/19 Appl: 11/14/19 Corr: 11/14/19 Corr: 12/17/19 Appl: 2/20/10 Issued: 2/21/20	GRA2019-0005 Appl: 7/11/19 Corr: 7/24/19 Appl:11/26/19 Corr: 11/27/19 Issued: 1/8/20	
Drive Through Pharmacy **CUP 19-05** 414 North H Contact: Joseph Abraham (805) 748-4440 santamariadrugstore@gmail.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 8/20/19 Complete 9/18/19 DRB 10/8/19 PC approved 11/13/19	Establish drive through for existing pharmacy		59.	B2019-1013 Appl: 12/2/19 Corr: 1/9/20 Appl: 3/5/20		
HACSB **15-unit Affordable Housing** **CUP 18-04** 1401 East Cypress Avenue Contact: Tom Tomasello (805) 963-8283 actomasello@rrmdesign.com Planner: Greg Stones (805) 875-8277 g_stones@ci.lompoc.ca.us	PC hearing 2/27/19 PC hearing 6/12/19 PC hearing 8/14/19 PC hearing 9/25/19 PC approved 10/9/19	Proposed 15 affordable one-bedroom apartments with parking and landscaping		48.	B2019-1068 Appl: 12/30/19 Corr: 1/29/20		
Castillo de Rosas **DR 19-04, LOM 616** 109 South Third Street Contact: Ted Price (949) 752-2010 tedp@LGSarchitects.com Planner: Greg Stones (805) 875-8227 g_stones@ci.lompoc.ca.us	Submitted 6/10/19 Incomplete 8/8/19 Resub 9/17/19 Complete 10/2/19 DRB 10/15/19 PC approved 11/13/19 CC approved 12/17/19	Proposed 24 residential condos		57.	B2019-1059 Appl: 12/19/19 Corr: 1/28/20 Appl: 3/24/20		

Confidential Biotherapy Delivery **CUP 19-02** 405 North N Street Contact: Eric Hughes (925) 683-7679 eric@hughescons.com Planner: Greg Stones (805) 875-8277 g_stones@ci.lompoc.ca.us	Submitted 5/23/19 Incomplete 6/20/19 Resub 9/19/19 Complete 10/9/19 PC approved 11/13/19	Proposed Cannabis dispensary in the industrial zone		52.	B2020-0146 Appl: 3/4/20		
Verizon Small Wireless Facility **DR 19-06** 201 West College Avenue Contact: Kristina Demolli (916) 600-9610 Planner: Brian Halvorson (805) 875-8228 b_halvorson@ci.lompoc.ca.us	Submitted 10/2/19 Incomplete 10/31/19 Complete 12/12/19 Approved 1/16/20	Proposed Verizon cell site on an existing utility pole in the right-of-way		61.	B2020-0060 Appl: 1/23/20		

Projects Approved by Council / Commission / Staff / Pending Submittal into Plan Check

Project Name / No. / Location / Contact / Project Planner	Status	Description	Notes	Map No.	Building Permit	Grading Permit	Stormwater Permit
Burton Ranch – Martin Tentative Tract Map **LOM 571** APN's: 097-250-013 & -040 Jon Martin (805) 962-8299 jmartin@m3multifamily.com Planner: Brian Halvorson (805) 875-8228 b_halvorson@ci.lompoc.ca.us	PC approved 7/13/16 PC approved time extension request to 7/13/20 CC approved time extension request for the Specific Plan Developmen t Agreement until 5/31/24	64 SF Parcels & 1 Apartment Lot Parcel	Meeting with applicant 9/6/18, revisions to project anticipated Revisions to project anticipated	15.			

Burton Ranch – Jensen 55 residential units, new construction **DR 07-02, LOM 567** Contact: Donald M. Jensen (805) 654-6977 dj@jdscivil.com Planner: Brian Halvorson (805) 875-8228 b_halvorson@ci.lompoc.ca.us	PC approved 5/14/08 PC approved time extension for map until 5/14/21 CC approved time extension for the Specific Plan Development Agreement until 5/31/24	55 residential units	Pending CFD formation Meeting with applicant 9/6/18, revisions to project anticipated Meeting with Mission Hills CSD on 11/13/18 Revisions to project anticipated	20.			Predates stormwater requirements. SWPPP reqd. PCRs will apply if proposal is modified.
Burton Ranch – Towbes 210 residential units, new construction **DR 07-01, LOM 570** Contact: The Towbes Group (805) 962-2121 Planner: Brian Halvorson (805) 875-8228 b_halvorson@ci.lompoc.ca.us	PC approved 5/14/08 PC approved time extension for map until 5/14/21 CC approved time extension for the Specific Plan Development Agreement until 5/31/24	210 residential units	Pending CFD formation Meetings with applicant 8/17/18, 9/6/18 & 11/27/18, Revisions to project anticipated	21.		Grading plans in plan check	Predates stormwater requirements. SWPPP reqd. PCRs will apply if proposal is modified.
Mosaic Walk 1038 West Ocean Avenue **LOM 554, DR 05-29, ZC 05-03** Marshall Ochylski (805) 544-4546 mochylski@slolegal.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	PC approved 7/10/06 CC approved 8/1/06 Map time extension to 07/10/20 DA CC approved 10/18/16 and effective until 10/18/36	13 unit single family residential project		16.			

River Terrace / Coastal Vision 308 residential dwelling units with approx. 17,650 sq. ft. of commercial space, new construction **DR 04-03, EIR 04-01, LOM 533** Laurel Avenue and Twelfth Street APN: 099-141-021 Contact: Marco Vujicic (818) 991-6629 marcovujicic@yahoo.com Planner: Brian Halvorson (805) 875-8228 b_halvorson@ci.lompoc.ca.us	PC approved 7/25/05 CC approved 8/16/05 Map time extension to 8/16/26 DA CC approved 11/15/16 and effective until 11/15/36	308 residential dwelling units, approx. 17,666 sq. ft. commercial	Project revisions may be submitted in the next 1-2 months (Williams Homes)	18.		Phase 1 grading plans in plan check	
Coastal Meadows 42 unit residential project, new construction **DR 05-39, LOM 557** North V Street Contact: Marco Vujicic (818) 991-6629 marcovujicic@yahoo.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	PC approved Map 6/12/06 CC approved 7/18/06 Map and development plan extension approved by PC to 6/12/20 1 year time extension to 6/12/21: PC: 11/13/19	40 town homes, 467 sq. ft. recreation room/clubhouse, swimming pool and tot lot including parking and landscaping		23.			Predates SW requirements. SWPPP reqd. PCRs will apply if proposal is modified.
Central Coast Business Park **DR 13-14, EIR 14-01, SP 14-01, LOM 599** 1401 West Central Avenue Contact: John A. Smith (805) 466-5660 john@tataglia-engineering.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	PC approved 9/9/15 CC approved 10/20/15 PC approved 2nd map time extension 10/20/18 PC approved 3rd map time extension 10/9/19	Subdivide an existing 40 acre parcel of land into 12 parcels		25.			SWPPP will be mod. PCR's apply

Lompoc Record Mixed-use **CUP 18-01** 115 North H Street Ron Alex (805) 220-1776 ralex2765@aol.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	PC approved 5/9/18 Extension to 5/9/2020	Residential and commercial development within an existing building including a third floor development	Time extension for CUP approved until 5/9/20	36.			
Johnson Industrial Building **DR 18-09** 204 & 208 East Laurel Avenue Contact: Steven Reese (805) 736-8117 sr@reesearchitect.com Planner: Greg Stones (805) 875-8227 g_stones@ci.lompoc.ca.us	PC approved 3/13/19	Proposed office and wine storage with parking and landscaping		50.			
Sprint Collocation **DR 19-01** 416 North Eighth Street Contact: John Merritt (805) 771-0126 merrittEMC@att.net Planner: Greg Stones (805) 875-8277 g_stones@ci.lompoc.ca.us	DRB approved 4/19/19	Collocate six (6) new panel antennas on an existing 65' mono-pine at a centerline elevation of 40 feet		47.			
City Transit Yard **DR 15-13, LOM 601** 320 North D Street Christos Stoyos (805) 875-8230 c_stoyos@ci.lompoc.ca.us Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	PC approved 6/14/17 Architectural review and map time extension approved to 6/14/21	14,888 sq. ft. Transit Operation and Fleet Maintenance Facility consisting of 4 buildings with parking and landscaping		22.			
Santa Rita Hills Development **LOM 582** – Time Extension 300 North Twelfth Contact: Steve Zotovich (949) 271-1775 szotovich@peregrinerp.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	CC approved 7/7/9 PC approved time extension to 7/7/21	Subdivide 9.4 acres to create 4 parcels		24.			

AT&T Cell Site **CUP 18-05** 1621 North H Street Contact: Jerry Ambrose (805) 367-7407 jambrose@wireless01.com Planner: Greg Stones (805) 875-8227 g_stones@ci.lompoc.ca.us	PC approved 8/14/19	Proposed wireless communications facility for AT&T at the Lompoc Valley Inn & Suites		49.			
233 Mixed Use Development **DR 19-03** 233 North H Street Contact: Thomas Reay Omni Design Group, Inc. (805) 544-9700 treay@adgclo.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 6/12/19 Incomplete 7/11/19 Resubmitted 8/7/19 DRB 9/12/19 PC approved 10/9/19	Proposed three-story mixed use with commercial offices for the first & second floors, and 6 residential units on the third floor		51.		Grading plan submitted on 1/22/20	
Cannabis Dispensary **CUP 19-06** 1551 East Laurel Contact: Joseph Martin (714) 231-4435 joe@crestwest.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 9/11/19 Complete 10/10/19 PC approved 12/11/19			60.			
Cold Coast Brewing Co. **MUP19-02** 118 West Ocean Ave. Contact: J. Paul Newton (805) 881-8001 paul@situationarts.com Planner: Greg Stones (805) 801-0453 g_stones@ci.lompoc.ca.us	Submitted 11/4/19 Complete 12/4/19 Staff approved 12/19/19			64.			

Projects Scheduled for Review by Council / Commission / Staff							
Project Name / No. / Location / Contact / Project Planner	Status	Description	Notes	**Map No.**	**Building Permit**	**Grading Permit**	**Stormwater Permit**
Crocker's Lockers Mini-Storage **DR 19-05, CUP 19-04** 224 North A Street & 812 East Chestnut Avenue Contact: Ed Boersma (925) 314-0770 ed@cubixcc.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 8/7/19 Incomplete 9/5/19 Resubmitted 12/19/19 Complete 1/22/20 DRB 2/11/20 Approved 4/8/20	Self-storage facility encompassing six structures totaling 107,730 square feet (with 837 storage units)		58.			
Campbell Cooling Expansion **DR 19-08, LOM 620** 1501 North L Contact: Hawkins Engineering (831)761-7400 rachel@hawkinsengineering.net Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 12/13/19 Incomplete 1/13/20 Complete 2/6/20 DRB 3/17/20 Approved 4/8/20	Proposal for a 33,670 square foot addition and 2,000 square foot addition to an existing foot vegetable and berry cooling warehouse and office building, and a Lot Line Adjustment		65.			
Lot Line Adjustment **LOM 621** 204 & 208 East Laurel Ave. Contact: Steve Reese (805) 736-8117 sr@reesearchitect.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 1/30/20 Incomplete 2/30/20 Resubmitted 3/17/20 Complete 3/17/20 Approved 4/8/20	Lot line adjustment to delete property line and create one parcel		Not on map			

Projects in Review – No Hearing Date Scheduled

Project Name / No. / Location / Contact / Project Planner	Status	Description	Notes	Map No.	Building Permit	Grading Permit	Stormwater Permit
Bailey Avenue Sphere of Influence Adjustment & Annexation **Annex 76** APN's: 093-070-065, 093-111-007, 008, 009, 010, 011, 012. Contact(s): Jack Bodger (805) 735-8888 Lee Moore (310) 394-3379 Planner: Brian Halvorson (805) 875-8228 b_halvorson@ci.lompoc.ca.us	CC reviewed annexation request 7/18/17	Two non-contiguous single family residential subdivisions with open space agricultural buffer areas and potential business park uses	County Meetings 1/16/18, 6/25/18 & 10/1/18 LAFCO application submitted 7/26/18 County Planning Memo received 9/28/18 Response to County 8/26/19 Final County Meeting on 10/24/19 Draft MOA routed to County 12-6-19. Response received on 12-19-19 not supporting proposal. Survey documentation sent to LAFCO/County Surveyor 2/25/20	29.			
11 Industrial Parcels **GP 15-01, ZC 15-01** 091-225-001, 089-231-011, 089-213-027, 025, 089-221-014, 011, 010, 009, 008, 005, 021. Planner: Brian Halvorson (805) 875-8228 b_halvorson@ci.lompoc.ca.us	PC 1st review 3/11/15 PC recommend approval 4/8/15 CC approved 6 parcels for change on 6/16/15, return 2 parcels to PC	Proposed General Plan Amendment and Zone Change for 11 parcels	Site visit with owners 07/25/18 *Only the property owner of 415 West Laurel Ave has agreed to return to PC for the GP amendment and ZC. The property owner of 921 W. Laurel is not interested in changing the zoning to industrial.	30.			

Metro PCS Monopole **CUP 18-02** 916 North I Street Contact: Alyoshka Romero (909) 855-6916 Aly.romero@rlsusa.com Planner: Greg Stones (805) 875-8277 g_stones@ci.lompoc.ca.us	Submitted 6/29/18 Incomplete 7/26/18 Resubmitted 11/28/18 Incomplete 1/29/19 Resubmitted 6/17/19 Incomplete 7/17/19	Replace existing cell tower with 65' high monopole		44.			
Amendment of Historic Structures and Places **DR 18-08** Planner: Stacy Lawson (805) 875-8275 s_lawsonl@ci.lompoc.ca.us	Staff presentation provided at PC meeting on 6/12/19	Historic structures and places identified in Table 4 of the Cultural Resources Study will be verified and amended in accordance with the National Register of the Historic Places and California Historic Resources List		Not on map			
J's Auto Glass & Metal Storage Container **CUP 19-03** 1040 West Ocean Avenue Contact: Jerome White (805) 450-1100 jer.white@sbcglobal.net Planner: Greg Stones (805) 875-8227 g_stones@ci.lompoc.ca.us	Submitted 6/17/19 Incomplete 7/17/19 Resubmitted 8/2/19 Complete 8/30/19 Issued 11/21/19	Proposed auto glass installation service (with addition) and permanent metal storage container	This item received a TUP which will expire in September/2020.	56.			
Campbell Box Warehouse **DR 19-05** 1608 North O Contact: Bob Campbell (805)736-5451 Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 4/1/20	Proposed new 20,000 sq.ft. warehouse to support existing cooling operation		70.			

Lot Merger **LOM 619** 203 North N Street Contact: Jack Boysen (805) 680-7495 jackboysen@gmail.com Planner: Brian Halvorson (805) 875-8228 b_halvorson@ci.lompoc.ca.us	Submitted 10/24/19 Incomplete 11/22/19			Not on map			
Lot Merger **LOM 618** 125 South L Street Contact: Leaha Magee (805) 594-1960 leahs@mbslandsurveys.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 10/7/19 Incomplete 11/19/19 Resubmitted 12/3/19 DRB/SRB 2/27/20			Not on map			
The Human Bean **DR19-07** 401 North H Street Contact: Pamela Jardini (805) 594-1960 planningsolutions@charter.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 10/29/19 Incomplete 11/27/19	Drive through coffee shop with walk-up window		62.			
Stiiizy Dispensary **CUP19-07** 1641 West Central Ave. Contact: Brian Mitchell (818) 371-0066 brian@shrynegroup.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 11/12/19 Incomplete 12/11/19 Resubmitted 1/28/20		Incomplete, traffic study in process.	63.			
Organic Liberty Lompoc Cannabis Indoor Cultivation **DR 20-01** 1025/1035 West Central Contact: Mathew Primm (858) 245-3277 matt@olibery.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 1/6/20 Incomplete 2/6/20			66.			

Residential Duplex **DR 20-02** 227 South J Contact: Joey White (805) 757-0132 whiteelectric1@gmail.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 2/13/20			67.			
Single-Family & Duplex **DR 20-03** 200 North F Contact: Steve Reese (805) 736-8117 sr@reesearchitect.com Planner: Greg Stones (805) 875-8273 g_stones@ci.lompoc.ca.us	Submitted 2/14/20			68.			
Tandy's Goldmine Event Center **MUP 20-01** 110 West Ocean Contact: Dennis Balsamo (805) 431-0354 bjbalsamo@balsamolaw.com Planner: Brian Halvorson (805) 875-8228 b_halvorson@ci.lompoc.ca.us	Submitted 2/14/20 Complete 3/10/20			69.			
Amendment to Champion Center (Crestwood Behavioral Health) **CUP 11-11** 303 South C Street	Submitted 2/18/20 and 3/2/20	Change in operator, minor amendments to project description	Complete 3/9/20	71.			

Pre-Conceptual / Pre-Applications

Project Name / No. / Location / Contact / Project Planner	Status	Description	Notes	Map No.			
Dutch Brothers Coffee Drive-Thru PRE 20-03	Under Review	858 square foot coffee drive-thru at 800 North H Street		N/A			
Revised River Terrace PRE 20-02	Meeting 3/31/20	144 single family homes, 58 duplexes, 2 commercial sites at 1701 East Laurel Avenue		N/A			
Revised Mosaic Walk PRE 20-01	Dept comments routed to applicant on 3/19/20	36 market rate apartments at 1038 West Ocean Avenue		N/A			

Planning Grants

Project Name / No. / Location / Contact / Project Planner	Status	Description	Notes	Map No.			
SB 1 – Sustainable Communities Grant from Caltrans: Streetscape Multi-Modal Improvement Plan	In process	A complete streets plan to improve the streetscape and quality of key connections for a variety of transportation modes along Highway 1 and 246.	Held kick-off meeting with Caltrans Oct/19 Selected consultant 2/20	N/A			

Other Planning Projects

Project Name / No. / Location / Contact / Project Planner	Status	Description	Notes	Map No.			
Update to Environmental Review Guidelines (Implementation of Senate Bill 743)	In process	Adoption of thresholds for Vehicle Miles Traveled (for determining transportation impacts in CEQA review of projects)		N/A			
Review of Pedestrian and Bicycle Master Plan	In process	An Active Transportation Plan that is required in order to qualify for pedestrian and bicycle funding and prioritize projects	Project Lead: Public Works	N/A			
Update to Accessory Dwelling Unit ordinance	In process	Amendments need to be consistent with new State Laws effective January 1, 2020		N/A			
Zoning Code Amendment Cannabis Regulations	In process	Per Council request February 18, 2020, amend cannabis regulations to allow cannabis distribution in the Planned Commercial District (PCD) and allow cannabis Festival Events in parks	In conjunction with City Attorney's Office	N/A			

Inquiries – No Applications Received

- None

Lompoc Valley Projects Adjacent to City – Santa Barbara County Jurisdiction

Development Review Projects

Project Description	Status
Clubhouse Estates Tract Map 52 residential lots, APN: 097-371-008	Under construction
Stoker Development Plan 14 residential lots, APN: 097-730-021	Approved
Sepulveda Building Material Mining APN: 083-060-009 & -015, 083-070-010 & -018	In process
Pence Ranch Winery (Tier II) APN: 099-220-013	Approved
Santa Rosa Road Winery (Tier II) APN: 083-170-015	In process
Spear Winery (Tier II) 19,775 square feet commercial space, APN:099-210-058	In process
Hilt Winery (Tier III) 54,263 square feet commercial space, APN: 083-070-023	Under construction
Peake Ranch Winery (Tier II) 17,300 square feet commercial space, APN: 083-170-015	In process

https://www.countyofsb.org/plndev/projects/cumulativelist.sbc
https://www.countyofsb.org/uploadedFiles/plndev/Content/Projects/CrystalReportViewer1.pdf (updated December 2018)
Note: The projects for Santa Barbara County are not included on the map.

Energy, Minerals and Compliance Projects

Project Description	Status

https://www.countyofsb.org/plndev/projects/energy/Strauss.sbc
Note: The projects for Santa Barbara County are not included on the map.

Accessory Dwelling Units (ADU) Applications in 2020

Total Number of Applications: 6
Building permit(s) finaled: 0
Building permit(s) issued: 0
Building permit(s) in plan check: 6
Building permit(s) expired: 0

H STREET/CENTRAL AVENUE FAIR-SHARE CALCULATION WORKSHEET

Fair Share Calculation
Organic Liberty Project
Intersection: H Street/Central Avenue
Time Period: PM Peak Hour

Cumulative + Project Entering Volume	=	4523
Existing Volume	=	3755
Net New Volume	=	768
Project Added Volume	=	41
Project Percent Share(a)	=	5.3%

(a) Project Percent Share = 41 Trips / 768 Trips.

LEVEL OF SERVICE CALCULATION WORKSHEETS

Reference 1 – Central Avenue/V Street
Reference 2 – Central Avenue/Barton
Reference 3 – Central Avenue/H Street

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	123	53	100	212	2	88	4	195	3	2	1
Future Volume (veh/h)	0	123	53	100	212	2	88	4	195	3	2	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	138	60	112	238	2	99	4	219	3	2	1
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	306	127	158	604	5	813	13	701	596	528	264
Arrive On Green	0.00	0.13	0.13	0.09	0.33	0.33	0.45	0.45	0.45	0.45	0.45	0.45
Sat Flow, veh/h	1781	2448	1016	1781	1852	16	1414	29	1561	1158	1176	588
Grp Volume(v), veh/h	0	98	100	112	0	240	99	0	223	3	0	3
Grp Sat Flow(s),veh/h/ln	1781	1777	1687	1781	0	1868	1414	0	1589	1158	0	1764
Q Serve(g_s), s	0.0	2.1	2.2	2.5	0.0	4.0	1.7	0.0	3.6	0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	2.1	2.2	2.5	0.0	4.0	1.7	0.0	3.6	3.7	0.0	0.0
Prop In Lane	1.00		0.60	1.00		0.01	1.00		0.98	1.00		0.33
Lane Grp Cap(c), veh/h	4	222	211	158	0	610	813	0	714	596	0	792
V/C Ratio(X)	0.00	0.44	0.47	0.71	0.00	0.39	0.12	0.00	0.31	0.01	0.00	0.00
Avail Cap(c_a), veh/h	222	798	758	244	0	862	813	0	714	596	0	792
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	16.2	16.3	17.8	0.0	10.4	6.6	0.0	7.1	8.3	0.0	6.1
Incr Delay (d2), s/veh	0.0	1.4	1.6	5.7	0.0	0.4	0.3	0.0	1.1	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.8	0.8	1.1	0.0	1.3	0.4	0.0	1.1	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	17.6	17.9	23.4	0.0	10.8	6.9	0.0	8.2	8.3	0.0	6.1
LnGrp LOS	A	B	B	C	A	B	A	A	A	A	A	A
Approach Vol, veh/h		198			352			322			6	
Approach Delay, s/veh		17.8			14.9			7.8			7.2	
Approach LOS		B			B			A			A	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	22.5	8.1	9.5	22.5	0.0	17.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	5.5	18.0	18.0	5.0	18.5
Max Q Clear Time (g_c+I1), s	5.6	4.5	4.2	5.7	0.0	6.0
Green Ext Time (p_c), s	1.3	0.0	0.9	0.0	0.0	1.0

Intersection Summary	
HCM 6th Ctrl Delay	12.9
HCM 6th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	125	53	102	213	2	88	4	203	3	2	1
Future Volume (veh/h)	0	125	53	102	213	2	88	4	203	3	2	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	140	60	115	239	2	99	4	228	3	2	1
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	309	127	160	607	5	811	12	700	586	527	264
Arrive On Green	0.00	0.13	0.13	0.09	0.33	0.33	0.45	0.45	0.45	0.45	0.45	0.45
Sat Flow, veh/h	1781	2459	1007	1781	1852	15	1414	27	1562	1148	1176	588
Grp Volume(v), veh/h	0	99	101	115	0	241	99	0	232	3	0	3
Grp Sat Flow(s),veh/h/ln	1781	1777	1689	1781	0	1868	1414	0	1589	1148	0	1764
Q Serve(g_s), s	0.0	2.1	2.2	2.5	0.0	4.0	1.7	0.0	3.8	0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	2.1	2.2	2.5	0.0	4.0	1.7	0.0	3.8	3.9	0.0	0.0
Prop In Lane	1.00		0.60	1.00		0.01	1.00		0.98	1.00		0.33
Lane Grp Cap(c), veh/h	4	224	213	160	0	612	811	0	712	586	0	791
V/C Ratio(X)	0.00	0.44	0.47	0.72	0.00	0.39	0.12	0.00	0.33	0.01	0.00	0.00
Avail Cap(c_a), veh/h	222	796	757	244	0	860	811	0	712	586	0	791
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	16.3	16.3	17.8	0.0	10.4	6.6	0.0	7.2	8.4	0.0	6.1
Incr Delay (d2), s/veh	0.0	1.4	1.6	5.9	0.0	0.4	0.3	0.0	1.2	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.8	0.8	1.2	0.0	1.3	0.4	0.0	1.1	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	17.6	18.0	23.7	0.0	10.8	6.9	0.0	8.4	8.4	0.0	6.1
LnGrp LOS	A	B	B	C	A	B	A	A	A	A	A	A
Approach Vol, veh/h		200			356			331			6	
Approach Delay, s/veh		17.8			15.0			7.9			7.3	
Approach LOS		B			B			A			A	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		22.5	8.1	9.6		22.5	0.0	17.7				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		18.0	5.5	18.0		18.0	5.0	18.5				
Max Q Clear Time (g_c+I1), s		5.8	4.5	4.2		5.9	0.0	6.0				
Green Ext Time (p_c), s		1.4	0.0	0.9		0.0	0.0	1.0				

Intersection Summary												
HCM 6th Ctrl Delay			12.9									
HCM 6th LOS			B									

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	136	57	108	231	2	93	4	201	3	2	1
Future Volume (veh/h)	0	136	57	108	231	2	93	4	201	3	2	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	153	64	121	260	2	104	4	226	3	2	1
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	327	131	163	620	5	803	12	693	580	522	261
Arrive On Green	0.00	0.13	0.13	0.09	0.33	0.33	0.44	0.44	0.44	0.44	0.44	0.44
Sat Flow, veh/h	1781	2476	993	1781	1854	14	1414	28	1562	1151	1176	588
Grp Volume(v), veh/h	0	108	109	121	0	262	104	0	230	3	0	3
Grp Sat Flow(s),veh/h/ln	1781	1777	1692	1781	0	1868	1414	0	1589	1151	0	1764
Q Serve(g_s), s	0.0	2.3	2.4	2.7	0.0	4.4	1.8	0.0	3.8	0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	2.3	2.4	2.7	0.0	4.4	1.8	0.0	3.8	3.9	0.0	0.0
Prop In Lane	1.00		0.59	1.00		0.01	1.00		0.98	1.00		0.33
Lane Grp Cap(c), veh/h	4	234	223	163	0	625	803	0	705	580	0	783
V/C Ratio(X)	0.00	0.46	0.49	0.74	0.00	0.42	0.13	0.00	0.33	0.01	0.00	0.00
Avail Cap(c_a), veh/h	220	788	750	241	0	852	803	0	705	580	0	783
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	16.3	16.3	18.0	0.0	10.4	6.8	0.0	7.3	8.6	0.0	6.3
Incr Delay (d2), s/veh	0.0	1.4	1.7	6.5	0.0	0.4	0.3	0.0	1.2	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.9	0.9	1.2	0.0	1.5	0.5	0.0	1.1	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	17.7	18.0	24.4	0.0	10.9	7.1	0.0	8.6	8.6	0.0	6.3
LnGrp LOS	A	B	B	C	A	B	A	A	A	A	A	A
Approach Vol, veh/h		217			383			334			6	
Approach Delay, s/veh		17.8			15.2			8.1			7.5	
Approach LOS		B			B			A			A	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	22.5	8.2	9.9	22.5	0.0	18.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	5.5	18.0	18.0	5.0	18.5
Max Q Clear Time (g_c+I1), s	5.8	4.7	4.4	5.9	0.0	6.4
Green Ext Time (p_c), s	1.4	0.0	1.0	0.0	0.0	1.1

Intersection Summary	
HCM 6th Ctrl Delay	13.2
HCM 6th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	138	57	110	232	2	93	4	209	3	2	1
Future Volume (veh/h)	0	138	57	110	232	2	93	4	209	3	2	1
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	155	64	124	261	2	104	4	235	3	2	1
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	330	131	165	623	5	802	12	692	570	521	260
Arrive On Green	0.00	0.13	0.13	0.09	0.34	0.34	0.44	0.44	0.44	0.44	0.44	0.44
Sat Flow, veh/h	1781	2485	985	1781	1854	14	1414	27	1563	1141	1176	588
Grp Volume(v), veh/h	0	109	110	124	0	263	104	0	239	3	0	3
Grp Sat Flow(s),veh/h/ln	1781	1777	1693	1781	0	1868	1414	0	1589	1141	0	1764
Q Serve(g_s), s	0.0	2.3	2.5	2.8	0.0	4.4	1.8	0.0	4.0	0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	2.3	2.5	2.8	0.0	4.4	1.8	0.0	4.0	4.1	0.0	0.0
Prop In Lane	1.00		0.58	1.00		0.01	1.00		0.98	1.00		0.33
Lane Grp Cap(c), veh/h	4	236	224	165	0	627	802	0	704	570	0	781
V/C Ratio(X)	0.00	0.46	0.49	0.75	0.00	0.42	0.13	0.00	0.34	0.01	0.00	0.00
Avail Cap(c_a), veh/h	219	787	750	241	0	850	802	0	704	570	0	781
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	16.3	16.4	18.0	0.0	10.4	6.8	0.0	7.4	8.8	0.0	6.3
Incr Delay (d2), s/veh	0.0	1.4	1.7	7.4	0.0	0.4	0.3	0.0	1.3	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.9	0.9	1.3	0.0	1.5	0.5	0.0	1.2	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	17.7	18.0	25.4	0.0	10.9	7.2	0.0	8.7	8.8	0.0	6.3
LnGrp LOS	A	B	B	C	A	B	A	A	A	A	A	A
Approach Vol, veh/h		219			387			343			6	
Approach Delay, s/veh		17.9			15.5			8.3			7.6	
Approach LOS		B			B			A			A	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	22.5	8.3	9.9	22.5	0.0	18.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	5.5	18.0	18.0	5.0	18.5
Max Q Clear Time (g_c+I1), s	6.0	4.8	4.5	6.1	0.0	6.4
Green Ext Time (p_c), s	1.4	0.0	1.0	0.0	0.0	1.1

Intersection Summary	
HCM 6th Ctrl Delay	13.4
HCM 6th LOS	B

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	252	6	14	318	15	41	0	68	3	0	2
Future Vol, veh/h	9	252	6	14	318	15	41	0	68	3	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,-#		0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	10	274	7	15	346	16	45	0	74	3	0	2

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	362	0	0	281	0	0	501	690	141	541	685	181
Stage 1	-	-	-	-	-	-	298	298	-	384	384	-
Stage 2	-	-	-	-	-	-	203	392	-	157	301	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1193	-	-	1278	-	-	453	367	881	424	369	831
Stage 1	-	-	-	-	-	-	686	666	-	611	610	-
Stage 2	-	-	-	-	-	-	780	605	-	829	664	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1193	-	-	1278	-	-	444	359	881	382	361	831
Mov Cap-2 Maneuver	-	-	-	-	-	-	444	359	-	382	361	-
Stage 1	-	-	-	-	-	-	681	661	-	606	601	-
Stage 2	-	-	-	-	-	-	766	596	-	753	659	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.3	0.3	11.9	12.5
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	643	1193	-	-	1278	-	-	487
HCM Lane V/C Ratio	0.184	0.008	-	-	0.012	-	-	0.011
HCM Control Delay (s)	11.9	8	-	-	7.9	-	-	12.5
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.7	0	-	-	0	-	-	0

→ AWD = 11.2 SEC = LOS B

Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	19	252	6	14	318	52	41	5	68	14	2	5
Future Vol, veh/h	19	252	6	14	318	52	41	5	68	14	2	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,-#		0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	21	274	7	15	346	57	45	5	74	15	2	5

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	403	0	0	281	0	0	524	753	141	587	728	202
Stage 1	-	-	-	-	-	-	320	320	-	405	405	-
Stage 2	-	-	-	-	-	-	204	433	-	182	323	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1152	-	-	1278	-	-	436	337	881	393	349	805
Stage 1	-	-	-	-	-	-	666	651	-	593	597	-
Stage 2	-	-	-	-	-	-	779	580	-	802	649	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1152	-	-	1278	-	-	420	326	881	347	337	805
Mov Cap-2 Maneuver	-	-	-	-	-	-	420	326	-	347	337	-
Stage 1	-	-	-	-	-	-	654	639	-	582	588	-
Stage 2	-	-	-	-	-	-	759	571	-	715	637	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.6	0.3	12.6	14.5
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	600	1152	-	-	1278	-	-	400
HCM Lane V/C Ratio	0.207	0.018	-	-	0.012	-	-	0.057
HCM Control Delay (s)	12.6	8.2	-	-	7.9	-	-	14.5
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.8	0.1	-	-	0	-	-	0.2

→ AWD = 11.9 sec = LOS B

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	257	6	14	320	15	41	0	68	3	0	2
Future Vol, veh/h	9	257	6	14	320	15	41	0	68	3	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,-#		0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	10	279	7	15	348	16	45	0	74	3	0	2

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	364	0	0	286	0	0	507	697	143	546	692	182
Stage 1	-	-	-	-	-	-	303	303	-	386	386	-
Stage 2	-	-	-	-	-	-	204	394	-	160	306	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1191	-	-	1273	-	-	449	363	879	421	366	829
Stage 1	-	-	-	-	-	-	681	662	-	609	609	-
Stage 2	-	-	-	-	-	-	779	604	-	826	660	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1191	-	-	1273	-	-	440	355	879	379	358	829
Mov Cap-2 Maneuver	-	-	-	-	-	-	440	355	-	379	358	-
Stage 1	-	-	-	-	-	-	676	657	-	604	600	-
Stage 2	-	-	-	-	-	-	765	595	-	750	655	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.3	0.3	11.9	12.5
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	639	1191	-	-	1273	-	-	484
HCM Lane V/C Ratio	0.185	0.008	-	-	0.012	-	-	0.011
HCM Control Delay (s)	11.9	8	-	-	7.9	-	-	12.5
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.7	0	-	-	0	-	-	0

AWD = 11.3 SEC = LOS B

Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	19	257	6	14	320	52	41	5	68	14	2	5
Future Vol, veh/h	19	257	6	14	320	52	41	5	68	14	2	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,-#		0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	21	279	7	15	348	57	45	5	74	15	2	5

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	405	0	0	286	0	0	530	760	143	591	735	203
Stage 1	-	-	-	-	-	-	325	325	-	407	407	-
Stage 2	-	-	-	-	-	-	205	435	-	184	328	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1150	-	-	1273	-	-	432	334	879	391	345	804
Stage 1	-	-	-	-	-	-	661	648	-	592	596	-
Stage 2	-	-	-	-	-	-	778	579	-	800	646	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1150	-	-	1273	-	-	416	323	879	344	334	804
Mov Cap-2 Maneuver	-	-	-	-	-	-	416	323	-	344	334	-
Stage 1	-	-	-	-	-	-	649	636	-	581	587	-
Stage 2	-	-	-	-	-	-	758	570	-	713	634	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.6	0.3	12.6	14.6
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	596	1150	-	-	1273	-	-	397
HCM Lane V/C Ratio	0.208	0.018	-	-	0.012	-	-	0.057
HCM Control Delay (s)	12.6	8.2	-	-	7.9	-	-	14.6
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.8	0.1	-	-	0	-	-	0.2

AWD = 11.8 SEC = LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	305	86	38	65	165	244	75	308	29	122	387	237
Future Volume (veh/h)	305	86	38	65	165	244	75	308	29	122	387	237
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	343	97	43	73	185	274	84	346	33	137	435	266
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	439	687	289	100	750	334	108	952	90	173	1161	518
Arrive On Green	0.13	0.28	0.28	0.06	0.21	0.21	0.06	0.29	0.29	0.10	0.33	0.33
Sat Flow, veh/h	3456	2439	1024	1781	3554	1585	1781	3280	311	1781	3554	1585
Grp Volume(v), veh/h	343	69	71	73	185	274	84	186	193	137	435	266
Grp Sat Flow(s),veh/h/ln	1728	1777	1686	1781	1777	1585	1781	1777	1814	1781	1777	1585
Q Serve(g_s), s	6.3	1.9	2.1	2.6	2.8	10.8	3.0	5.4	5.5	4.9	6.1	8.9
Cycle Q Clear(g_c), s	6.3	1.9	2.1	2.6	2.8	10.8	3.0	5.4	5.5	4.9	6.1	8.9
Prop In Lane	1.00		0.61	1.00		1.00	1.00		0.17	1.00		1.00
Lane Grp Cap(c), veh/h	439	501	475	100	750	334	108	516	527	173	1161	518
V/C Ratio(X)	0.78	0.14	0.15	0.73	0.25	0.82	0.78	0.36	0.37	0.79	0.37	0.51
Avail Cap(c_a), veh/h	449	526	500	193	977	436	163	516	527	177	1161	518
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.7	17.6	17.6	30.4	21.5	24.6	30.3	18.4	18.5	28.9	16.9	17.8
Incr Delay (d2), s/veh	8.5	0.1	0.1	9.7	0.2	9.2	12.5	2.0	2.0	21.0	0.9	3.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	0.7	0.8	1.4	1.1	4.7	1.6	2.3	2.3	3.0	2.4	3.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.2	17.7	17.8	40.2	21.7	33.8	42.9	20.4	20.4	49.9	17.8	21.4
LnGrp LOS	D	B	B	D	C	C	D	C	C	D	B	C
Approach Vol, veh/h		483			532			463			838	
Approach Delay, s/veh		30.9			30.5			24.5			24.2	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.9	23.5	8.2	22.9	8.5	25.9	12.8	18.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	6.5	19.0	7.1	19.4	6.0	19.5	8.5	18.0
Max Q Clear Time (g_c+I1), s	6.9	7.5	4.6	4.1	5.0	10.9	8.3	12.8
Green Ext Time (p_c), s	0.0	1.5	0.0	0.6	0.0	2.4	0.0	1.0

Intersection Summary	
HCM 6th Ctrl Delay	27.1
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	307	87	44	65	168	244	93	308	29	122	387	245
Future Volume (veh/h)	307	87	44	65	168	244	93	308	29	122	387	245
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	345	98	49	73	189	274	104	346	33	137	435	275
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	440	662	312	100	750	334	133	951	90	173	1110	495
Arrive On Green	0.13	0.28	0.28	0.06	0.21	0.21	0.07	0.29	0.29	0.10	0.31	0.31
Sat Flow, veh/h	3456	2344	1104	1781	3554	1585	1781	3280	311	1781	3554	1585
Grp Volume(v), veh/h	345	73	74	73	189	274	104	186	193	137	435	275
Grp Sat Flow(s),veh/h/ln	1728	1777	1672	1781	1777	1585	1781	1777	1814	1781	1777	1585
Q Serve(g_s), s	6.3	2.0	2.2	2.6	2.9	10.8	3.8	5.5	5.5	4.9	6.3	9.5
Cycle Q Clear(g_c), s	6.3	2.0	2.2	2.6	2.9	10.8	3.8	5.5	5.5	4.9	6.3	9.5
Prop In Lane	1.00		0.66	1.00		1.00	1.00		0.17	1.00		1.00
Lane Grp Cap(c), veh/h	440	502	472	100	750	334	133	515	526	173	1110	495
V/C Ratio(X)	0.78	0.15	0.16	0.73	0.25	0.82	0.78	0.36	0.37	0.79	0.39	0.56
Avail Cap(c_a), veh/h	448	526	495	193	976	435	149	515	526	177	1110	495
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.7	17.6	17.7	30.4	21.5	24.7	29.8	18.5	18.5	28.9	17.7	18.8
Incr Delay (d2), s/veh	8.7	0.1	0.2	9.8	0.2	9.2	20.9	2.0	2.0	21.1	1.0	4.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	0.8	0.8	1.4	1.2	4.6	2.3	2.3	2.4	3.0	2.4	3.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.4	17.7	17.8	40.2	21.7	33.8	50.7	20.4	20.4	50.0	18.7	23.2
LnGrp LOS	D	B	B	D	C	C	D	C	C	D	B	C
Approach Vol, veh/h		492			536			483			847	
Approach Delay, s/veh		30.8			30.4			27.0			25.2	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.9	23.5	8.2	23.0	9.4	25.0	12.9	18.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	6.5	19.0	7.1	19.4	5.5	20.0	8.5	18.0
Max Q Clear Time (g_c+I1), s	6.9	7.5	4.6	4.2	5.8	11.5	8.3	12.8
Green Ext Time (p_c), s	0.0	1.5	0.0	0.6	0.0	2.4	0.0	1.0

Intersection Summary	
HCM 6th Ctrl Delay	27.9
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	352	96	55	69	183	275	116	365	31	174	512	320
Future Volume (veh/h)	352	96	55	69	183	275	116	365	31	174	512	320
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	396	108	62	78	206	309	130	410	35	196	575	360
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	384	631	340	101	813	363	161	934	79	198	1075	480
Arrive On Green	0.11	0.28	0.28	0.06	0.23	0.23	0.09	0.28	0.28	0.11	0.30	0.30
Sat Flow, veh/h	3456	2231	1200	1781	3554	1585	1781	3315	282	1781	3554	1585
Grp Volume(v), veh/h	396	85	85	78	206	309	130	219	226	196	575	360
Grp Sat Flow(s),veh/h/ln	1728	1777	1654	1781	1777	1585	1781	1777	1820	1781	1777	1585
Q Serve(g_s), s	7.5	2.4	2.6	2.9	3.2	12.6	4.8	6.8	6.9	7.4	9.1	13.8
Cycle Q Clear(g_c), s	7.5	2.4	2.6	2.9	3.2	12.6	4.8	6.8	6.9	7.4	9.1	13.8
Prop In Lane	1.00		0.73	1.00		1.00	1.00		0.15	1.00		1.00
Lane Grp Cap(c), veh/h	384	503	468	101	813	363	161	501	513	198	1075	480
V/C Ratio(X)	1.03	0.17	0.18	0.77	0.25	0.85	0.81	0.44	0.44	0.99	0.53	0.75
Avail Cap(c_a), veh/h	384	519	483	153	949	423	161	501	513	198	1075	480
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.0	18.2	18.3	31.4	21.3	24.9	30.1	19.8	19.9	29.9	19.6	21.2
Incr Delay (d2), s/veh	53.9	0.2	0.2	12.2	0.2	13.7	25.2	2.8	2.7	60.7	1.9	10.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.9	1.0	1.0	1.5	1.3	5.8	3.0	2.9	3.0	6.3	3.6	6.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	83.8	18.4	18.5	43.5	21.4	38.6	55.3	22.6	22.6	90.6	21.5	31.6
LnGrp LOS	F	B	B	D	C	D	E	C	C	F	C	C
Approach Vol, veh/h		566			593			575			1131	
Approach Delay, s/veh		64.2			33.3			30.0			36.7	
Approach LOS		E			C			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.0	23.5	8.3	23.6	10.6	24.9	12.0	19.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	7.5	19.0	5.8	19.7	6.1	20.4	7.5	18.0
Max Q Clear Time (g_c+I1), s	9.4	8.9	4.9	4.6	6.8	15.8	9.5	14.6
Green Ext Time (p_c), s	0.0	1.7	0.0	0.7	0.0	2.1	0.0	0.8

Intersection Summary	
HCM 6th Ctrl Delay	40.1
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	354	97	61	69	186	275	134	365	31	174	512	328
Future Volume (veh/h)	354	97	61	69	186	275	134	365	31	174	512	328
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	398	109	69	78	209	309	151	410	35	196	575	369
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	384	609	359	101	813	363	172	934	79	198	1054	470
Arrive On Green	0.11	0.28	0.28	0.06	0.23	0.23	0.10	0.28	0.28	0.11	0.30	0.30
Sat Flow, veh/h	3456	2150	1269	1781	3554	1585	1781	3315	282	1781	3554	1585
Grp Volume(v), veh/h	398	89	89	78	209	309	151	219	226	196	575	369
Grp Sat Flow(s),veh/h/ln	1728	1777	1642	1781	1777	1585	1781	1777	1820	1781	1777	1585
Q Serve(g_s), s	7.5	2.5	2.8	2.9	3.2	12.6	5.6	6.8	6.9	7.4	9.2	14.4
Cycle Q Clear(g_c), s	7.5	2.5	2.8	2.9	3.2	12.6	5.6	6.8	6.9	7.4	9.2	14.4
Prop In Lane	1.00		0.77	1.00		1.00	1.00		0.15	1.00		1.00
Lane Grp Cap(c), veh/h	384	503	465	101	813	363	172	501	513	198	1054	470
V/C Ratio(X)	1.04	0.18	0.19	0.77	0.26	0.85	0.88	0.44	0.44	0.99	0.55	0.78
Avail Cap(c_a), veh/h	384	519	480	153	949	423	172	501	513	198	1054	470
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.0	18.2	18.3	31.4	21.3	24.9	30.1	19.8	19.9	29.9	19.9	21.7
Incr Delay (d2), s/veh	55.4	0.2	0.2	12.2	0.2	13.7	36.9	2.8	2.7	60.7	2.0	12.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.9	1.0	1.0	1.5	1.3	5.8	4.0	2.9	3.0	6.3	3.7	6.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	85.3	18.4	18.5	43.5	21.5	38.6	67.0	22.6	22.6	90.6	21.9	34.1
LnGrp LOS	F	B	B	D	C	D	E	C	C	F	C	C
Approach Vol, veh/h		576			596			596			1140	
Approach Delay, s/veh		64.7			33.2			33.8			37.7	
Approach LOS		E			C			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.0	23.5	8.3	23.6	11.0	24.5	12.0	19.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	7.5	19.0	5.8	19.7	6.5	20.0	7.5	18.0
Max Q Clear Time (g_c+I1), s	9.4	8.9	4.9	4.8	7.6	16.4	9.5	14.6
Green Ext Time (p_c), s	0.0	1.7	0.0	0.8	0.0	1.7	0.0	0.8

Intersection Summary	
HCM 6th Ctrl Delay	41.3
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	354	97	61	69	186	275	134	365	31	174	512	328
Future Volume (veh/h)	354	97	61	69	186	275	134	365	31	174	512	328
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	398	109	69	78	209	309	151	410	35	196	575	369
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	491	647	382	102	769	475	245	951	81	287	1063	699
Arrive On Green	0.14	0.30	0.30	0.06	0.22	0.22	0.07	0.29	0.29	0.08	0.30	0.30
Sat Flow, veh/h	3456	2150	1269	1781	3554	1585	3456	3315	282	3456	3554	1585
Grp Volume(v), veh/h	398	89	89	78	209	309	151	219	226	196	575	369
Grp Sat Flow(s),veh/h/ln	1728	1777	1642	1781	1777	1585	1728	1777	1820	1728	1777	1585
Q Serve(g_s), s	7.4	2.4	2.7	2.9	3.2	11.2	2.8	6.6	6.7	3.7	9.0	11.2
Cycle Q Clear(g_c), s	7.4	2.4	2.7	2.9	3.2	11.2	2.8	6.6	6.7	3.7	9.0	11.2
Prop In Lane	1.00		0.77	1.00		1.00	1.00		0.15	1.00		1.00
Lane Grp Cap(c), veh/h	491	535	494	102	769	475	245	510	522	287	1063	699
V/C Ratio(X)	0.81	0.17	0.18	0.76	0.27	0.65	0.62	0.43	0.43	0.68	0.54	0.53
Avail Cap(c_a), veh/h	496	535	494	229	966	562	271	510	522	287	1063	699
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.6	17.0	17.1	30.8	21.6	20.2	29.9	19.2	19.2	29.5	19.4	13.5
Incr Delay (d2), s/veh	9.7	0.1	0.2	11.0	0.2	2.1	3.5	2.6	2.6	6.5	2.0	2.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	1.0	1.0	1.5	1.3	4.1	1.2	2.8	2.9	1.7	3.6	4.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	37.3	17.2	17.3	41.8	21.8	22.2	33.4	21.8	21.8	36.0	21.4	16.3
LnGrp LOS	D	B	B	D	C	C	C	C	C	D	C	B
Approach Vol, veh/h		576			596			596			1140	
Approach Delay, s/veh		31.1			24.6			24.8			22.3	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	23.5	8.3	24.4	9.2	24.3	13.9	18.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	5.5	19.0	8.5	19.0	5.2	19.3	9.5	18.0
Max Q Clear Time (g_c+I1), s	5.7	8.7	4.9	4.7	4.8	13.2	9.4	13.2
Green Ext Time (p_c), s	0.0	1.7	0.0	0.8	0.0	2.6	0.0	1.1

Intersection Summary	
HCM 6th Ctrl Delay	25.0
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	338	127	157	128	3	56	2	153	4	3	0
Future Volume (veh/h)	0	338	127	157	128	3	56	2	153	4	3	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	360	135	167	136	3	60	2	163	4	3	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	553	204	216	790	17	684	7	592	524	706	0
Arrive On Green	0.00	0.22	0.22	0.12	0.43	0.43	0.38	0.38	0.38	0.38	0.38	0.00
Sat Flow, veh/h	1781	2540	938	1781	1823	40	1414	19	1569	1221	1870	0
Grp Volume(v), veh/h	0	250	245	167	0	139	60	0	165	4	3	0
Grp Sat Flow(s),veh/h/ln	1781	1777	1702	1781	0	1863	1414	0	1588	1221	1870	0
Q Serve(g_s), s	0.0	6.1	6.3	4.3	0.0	2.2	1.3	0.0	3.4	0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	6.1	6.3	4.3	0.0	2.2	1.4	0.0	3.4	3.5	0.0	0.0
Prop In Lane	1.00		0.55	1.00		0.02	1.00		0.99	1.00		0.00
Lane Grp Cap(c), veh/h	4	387	371	216	0	808	684	0	600	524	706	0
V/C Ratio(X)	0.00	0.65	0.66	0.77	0.00	0.17	0.09	0.00	0.28	0.01	0.00	0.00
Avail Cap(c_a), veh/h	187	671	643	392	0	919	684	0	600	524	706	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	17.0	17.0	20.3	0.0	8.3	9.7	0.0	10.3	11.5	9.2	0.0
Incr Delay (d2), s/veh	0.0	1.8	2.0	5.8	0.0	0.1	0.3	0.0	1.1	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	2.4	2.3	2.0	0.0	0.7	0.4	0.0	1.2	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	18.8	19.0	26.1	0.0	8.4	9.9	0.0	11.4	11.6	9.3	0.0
LnGrp LOS	A	B	B	C	A	A	A	A	B	B	A	A
Approach Vol, veh/h		495			306			225			7	
Approach Delay, s/veh		18.9			18.1			11.0			10.6	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	22.5	10.3	14.9	22.5	0.0	25.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	10.5	18.0	18.0	5.0	23.5
Max Q Clear Time (g_c+I1), s	5.4	6.3	8.3	5.5	0.0	4.2
Green Ext Time (p_c), s	0.9	0.2	2.1	0.0	0.0	0.6

Intersection Summary	
HCM 6th Ctrl Delay	16.9
HCM 6th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	339	127	165	130	3	56	2	157	4	3	0
Future Volume (veh/h)	0	339	127	165	130	3	56	2	157	4	3	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	361	135	176	138	3	60	2	167	4	3	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	553	204	227	799	17	678	7	588	515	700	0
Arrive On Green	0.00	0.22	0.22	0.13	0.44	0.44	0.37	0.37	0.37	0.37	0.37	0.00
Sat Flow, veh/h	1781	2542	936	1781	1824	40	1414	19	1569	1216	1870	0
Grp Volume(v), veh/h	0	251	245	176	0	141	60	0	169	4	3	0
Grp Sat Flow(s),veh/h/ln	1781	1777	1702	1781	0	1863	1414	0	1588	1216	1870	0
Q Serve(g_s), s	0.0	6.2	6.3	4.6	0.0	2.2	1.3	0.0	3.6	0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	6.2	6.3	4.6	0.0	2.2	1.4	0.0	3.6	3.7	0.0	0.0
Prop In Lane	1.00		0.55	1.00		0.02	1.00		0.99	1.00		0.00
Lane Grp Cap(c), veh/h	4	386	370	227	0	817	678	0	595	515	700	0
V/C Ratio(X)	0.00	0.65	0.66	0.78	0.00	0.17	0.09	0.00	0.28	0.01	0.00	0.00
Avail Cap(c_a), veh/h	185	665	637	389	0	911	678	0	595	515	700	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	17.1	17.2	20.3	0.0	8.2	9.9	0.0	10.5	11.8	9.4	0.0
Incr Delay (d2), s/veh	0.0	1.8	2.0	5.6	0.0	0.1	0.3	0.0	1.2	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	2.4	2.4	2.1	0.0	0.7	0.4	0.0	1.2	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	19.0	19.2	26.0	0.0	8.3	10.1	0.0	11.7	11.8	9.4	0.0
LnGrp LOS	A	B	B	C	A	A	B	A	B	B	A	A
Approach Vol, veh/h		496			317			229			7	
Approach Delay, s/veh		19.1			18.1			11.3			10.8	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	2	3	4		6	7	8
Phs Duration (G+Y+Rc), s	22.5	10.6	14.9		22.5	0.0	25.6
Change Period (Y+Rc), s	4.5	4.5	4.5		4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	10.5	18.0		18.0	5.0	23.5
Max Q Clear Time (g_c+I1), s	5.6	6.6	8.3		5.7	0.0	4.2
Green Ext Time (p_c), s	0.9	0.2	2.1		0.0	0.0	0.7

Intersection Summary	
HCM 6th Ctrl Delay	17.0
HCM 6th LOS	B

CUMULATIVE PM PEAK
1: V St & Central Ave

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	364	138	170	152	3	66	2	161	4	3	0
Future Volume (veh/h)	0	364	138	170	152	3	66	2	161	4	3	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	387	147	181	162	3	70	2	171	4	3	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	575	216	232	823	15	664	7	576	498	686	0
Arrive On Green	0.00	0.23	0.23	0.13	0.45	0.45	0.37	0.37	0.37	0.37	0.37	0.00
Sat Flow, veh/h	1781	2529	948	1781	1830	34	1414	18	1569	1212	1870	0
Grp Volume(v), veh/h	0	270	264	181	0	165	70	0	173	4	3	0
Grp Sat Flow(s),veh/h/ln	1781	1777	1700	1781	0	1864	1414	0	1588	1212	1870	0
Q Serve(g_s), s	0.0	6.8	7.0	4.8	0.0	2.6	1.6	0.0	3.8	0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.0	6.8	7.0	4.8	0.0	2.6	1.7	0.0	3.8	3.9	0.0	0.0
Prop In Lane	1.00		0.56	1.00		0.02	1.00		0.99	1.00		0.00
Lane Grp Cap(c), veh/h	4	404	387	232	0	838	664	0	583	498	686	0
V/C Ratio(X)	0.00	0.67	0.68	0.78	0.00	0.20	0.11	0.00	0.30	0.01	0.00	0.00
Avail Cap(c_a), veh/h	182	652	624	381	0	893	664	0	583	498	686	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	17.3	17.3	20.7	0.0	8.2	10.4	0.0	11.0	12.4	9.8	0.0
Incr Delay (d2), s/veh	0.0	1.9	2.1	5.6	0.0	0.1	0.3	0.0	1.3	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	2.6	2.6	2.2	0.0	0.9	0.5	0.0	1.3	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	19.2	19.4	26.3	0.0	8.3	10.7	0.0	12.3	12.5	9.9	0.0
LnGrp LOS	A	B	B	C	A	A	B	A	B	B	A	A
Approach Vol, veh/h		534			346			243			7	
Approach Delay, s/veh		19.3			17.7			11.9			11.3	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	22.5	10.9	15.7	22.5	0.0	26.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.0	10.5	18.0	18.0	5.0	23.5
Max Q Clear Time (g_c+I1), s	5.8	6.8	9.0	5.9	0.0	4.6
Green Ext Time (p_c), s	0.9	0.2	2.2	0.0	0.0	0.8

Intersection Summary	
HCM 6th Ctrl Delay	17.2
HCM 6th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	365	138	178	154	3	66	2	165	4	3	0
Future Volume (veh/h)	0	365	138	178	154	3	66	2	165	4	3	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	0	388	147	189	164	3	70	2	176	4	3	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	4	575	215	241	831	15	659	6	572	488	681	0
Arrive On Green	0.00	0.23	0.23	0.14	0.45	0.45	0.36	0.36	0.36	0.36	0.36	0.00
Sat Flow, veh/h	1781	2531	946	1781	1831	33	1414	18	1570	1206	1870	0
Grp Volume(v), veh/h	0	271	264	189	0	167	70	0	178	4	3	0
Grp Sat Flow(s),veh/h/ln	1781	1777	1700	1781	0	1864	1414	0	1588	1206	1870	0
Q Serve(g_s), s	0.0	6.9	7.0	5.1	0.0	2.7	1.6	0.0	4.0	0.1	0.1	0.0
Cycle Q Clear(g_c), s	0.0	6.9	7.0	5.1	0.0	2.7	1.7	0.0	4.0	4.1	0.1	0.0
Prop In Lane	1.00		0.56	1.00		0.02	1.00		0.99	1.00		0.00
Lane Grp Cap(c), veh/h	4	404	386	241	0	846	659	0	578	488	681	0
V/C Ratio(X)	0.00	0.67	0.68	0.78	0.00	0.20	0.11	0.00	0.31	0.01	0.00	0.00
Avail Cap(c_a), veh/h	180	647	619	378	0	887	659	0	578	488	681	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	17.4	17.5	20.7	0.0	8.1	10.5	0.0	11.2	12.7	10.0	0.0
Incr Delay (d2), s/veh	0.0	1.9	2.1	5.5	0.0	0.1	0.3	0.0	1.4	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	2.7	2.6	2.3	0.0	0.9	0.5	0.0	1.4	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	19.4	19.6	26.2	0.0	8.2	10.9	0.0	12.6	12.7	10.0	0.0
LnGrp LOS	A	B	B	C	A	A	B	A	B	B	B	A
Approach Vol, veh/h		535			356			248			7	
Approach Delay, s/veh		19.5			17.8			12.1			11.6	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	2	3	4		6	7	8					
Phs Duration (G+Y+Rc), s	22.5	11.2	15.7		22.5	0.0	26.9					
Change Period (Y+Rc), s	4.5	4.5	4.5		4.5	4.5	4.5					
Max Green Setting (Gmax), s	18.0	10.5	18.0		18.0	5.0	23.5					
Max Q Clear Time (g_c+I1), s	6.0	7.1	9.0		6.1	0.0	4.7					
Green Ext Time (p_c), s	1.0	0.2	2.2		0.0	0.0	0.8					

Intersection Summary		
HCM 6th Ctrl Delay		17.3
HCM 6th LOS		B

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	465	52	61	292	3	10	0	30	12	0	10
Future Vol, veh/h	4	465	52	61	292	3	10	0	30	12	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,#	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	505	57	66	317	3	11	0	33	13	0	11

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	320	0	0	562	0	0	833	994	281	712	1021	160
Stage 1	-	-	-	-	-	-	542	542	-	451	451	-
Stage 2	-	-	-	-	-	-	291	452	-	261	570	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1237	-	-	1005	-	-	261	244	716	320	235	857
Stage 1	-	-	-	-	-	-	492	518	-	557	569	-
Stage 2	-	-	-	-	-	-	693	569	-	721	504	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1237	-	-	1005	-	-	241	224	716	286	215	857
Mov Cap-2 Maneuver	-	-	-	-	-	-	241	224	-	286	215	-
Stage 1	-	-	-	-	-	-	491	516	-	555	523	-
Stage 2	-	-	-	-	-	-	629	523	-	686	502	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	1.5	13.2	14.3
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	480	1237	-	-	1005	-	-	410
HCM Lane V/C Ratio	0.091	0.004	-	-	0.066	-	-	0.058
HCM Control Delay (s)	13.2	7.9	-	-	8.8	-	-	14.3
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.3	0	-	-	0.2	-	-	0.2

→ AWD = 11.1 SEC = LOS B

Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	465	52	61	292	19	10	2	30	48	4	20
Future Vol, veh/h	9	465	52	61	292	19	10	2	30	48	4	20
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,#	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	10	505	57	66	317	21	11	2	33	52	4	22

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	338	0	0	562	0	0	847	1024	281	734	1042	169
Stage 1	-	-	-	-	-	-	554	554	-	460	460	-
Stage 2	-	-	-	-	-	-	293	470	-	274	582	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1218	-	-	1005	-	-	255	234	716	308	228	845
Stage 1	-	-	-	-	-	-	484	512	-	551	564	-
Stage 2	-	-	-	-	-	-	691	558	-	709	497	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1218	-	-	1005	-	-	228	213	716	272	208	845
Mov Cap-2 Maneuver	-	-	-	-	-	-	228	213	-	272	208	-
Stage 1	-	-	-	-	-	-	480	508	-	547	518	-
Stage 2	-	-	-	-	-	-	613	513	-	668	493	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	1.4	14.1	19.4
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	441	1218	-	-	1005	-	-	328
HCM Lane V/C Ratio	0.104	0.008	-	-	0.066	-	-	0.239
HCM Control Delay (s)	14.1	8	-	-	8.8	-	-	19.4
HCM Lane LOS	B	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	0.3	0	-	-	0.2	-	-	0.9

→ AWD = 14.1 SEC = LOS B

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	467	52	61	295	3	10	0	30	12	0	10
Future Vol, veh/h	4	467	52	61	295	3	10	0	30	12	0	10
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	508	57	66	321	3	11	0	33	13	0	11

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	324	0	0	565	0	0	838	1001	283	717	1028	162
Stage 1	-	-	-	-	-	-	545	545	-	455	455	-
Stage 2	-	-	-	-	-	-	293	456	-	262	573	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1233	-	-	1003	-	-	259	241	714	317	233	854
Stage 1	-	-	-	-	-	-	490	517	-	554	567	-
Stage 2	-	-	-	-	-	-	691	567	-	720	502	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1233	-	-	1003	-	-	240	221	714	283	214	854
Mov Cap-2 Maneuver	-	-	-	-	-	-	240	221	-	283	214	-
Stage 1	-	-	-	-	-	-	489	515	-	552	522	-
Stage 2	-	-	-	-	-	-	628	522	-	685	500	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	1.5	13.3	14.4
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	478	1233	-	-	1003	-	-	407
HCM Lane V/C Ratio	0.091	0.004	-	-	0.066	-	-	0.059
HCM Control Delay (s)	13.3	7.9	-	-	8.8	-	-	14.4
HCM Lane LOS	B	A	-	-	A	-	-	B
HCM 95th %tile Q(veh)	0.3	0	-	-	0.2	-	-	0.2

→ AWD = 11.2 SEC = LOS B

Intersection	
Int Delay, s/veh	2.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	9	467	52	61	295	19	10	2	30	48	4	20
Future Vol, veh/h	9	467	52	61	295	19	10	2	30	48	4	20
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,-#		0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	10	508	57	66	321	21	11	2	33	52	4	22

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	342	0	0	565	0	0	852	1031	283	739	1049	171
Stage 1	-	-	-	-	-	-	557	557	-	464	464	-
Stage 2	-	-	-	-	-	-	295	474	-	275	585	-
Critical Hdwy	4.14	-	-	4.14	-	-	7.54	6.54	6.94	7.54	6.54	6.94
Critical Hdwy Stg 1	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.54	5.54	-	6.54	5.54	-
Follow-up Hdwy	2.22	-	-	2.22	-	-	3.52	4.02	3.32	3.52	4.02	3.32
Pot Cap-1 Maneuver	1214	-	-	1003	-	-	253	232	714	306	226	843
Stage 1	-	-	-	-	-	-	482	510	-	548	562	-
Stage 2	-	-	-	-	-	-	689	556	-	708	496	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1214	-	-	1003	-	-	226	212	714	270	206	843
Mov Cap-2 Maneuver	-	-	-	-	-	-	226	212	-	270	206	-
Stage 1	-	-	-	-	-	-	478	506	-	544	516	-
Stage 2	-	-	-	-	-	-	612	511	-	667	492	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	1.4	14.2	19.5
HCM LOS			B	C

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	439	1214	-	-	1003	-	-	326
HCM Lane V/C Ratio	0.104	0.008	-	-	0.066	-	-	0.24
HCM Control Delay (s)	14.2	8	-	-	8.8	-	-	19.5
HCM Lane LOS	B	A	-	-	A	-	-	C
HCM 95th %tile Q(veh)	0.3	0	-	-	0.2	-	-	0.9

→ AWD = 14.2 SEC = LOS B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	551	283	173	115	271	233	213	610	66	275	593	372
Future Volume (veh/h)	551	283	173	115	271	233	213	610	66	275	593	372
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	568	292	178	119	279	240	220	629	68	284	611	384
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	653	606	360	151	634	283	258	805	87	322	1012	451
Arrive On Green	0.19	0.28	0.28	0.08	0.18	0.18	0.14	0.25	0.25	0.18	0.28	0.28
Sat Flow, veh/h	3456	2146	1273	1781	3554	1585	1781	3235	349	1781	3554	1585
Grp Volume(v), veh/h	568	240	230	119	279	240	220	345	352	284	611	384
Grp Sat Flow(s),veh/h/ln	1728	1777	1641	1781	1777	1585	1781	1777	1807	1781	1777	1585
Q Serve(g_s), s	14.1	9.9	10.3	5.8	6.2	13.0	10.7	16.0	16.1	13.7	13.1	20.2
Cycle Q Clear(g_c), s	14.1	9.9	10.3	5.8	6.2	13.0	10.7	16.0	16.1	13.7	13.1	20.2
Prop In Lane	1.00		0.78	1.00		1.00	1.00		0.19	1.00		1.00
Lane Grp Cap(c), veh/h	653	502	464	151	634	283	258	442	450	322	1012	451
V/C Ratio(X)	0.87	0.48	0.49	0.79	0.44	0.85	0.85	0.78	0.78	0.88	0.60	0.85
Avail Cap(c_a), veh/h	723	502	464	260	723	323	320	442	450	373	1012	451
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.8	26.3	26.5	39.7	32.4	35.2	36.9	31.0	31.0	35.3	27.3	29.9
Incr Delay (d2), s/veh	10.4	0.7	0.8	8.9	0.5	17.1	16.6	12.8	12.8	19.4	2.7	18.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.7	4.2	4.0	2.9	2.7	6.2	5.6	8.0	8.2	7.4	5.6	9.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	45.3	27.0	27.3	48.6	32.9	52.3	53.6	43.8	43.7	54.7	30.0	47.8
LnGrp LOS	D	C	C	D	C	D	D	D	D	D	C	D
Approach Vol, veh/h		1038			638			917			1279	
Approach Delay, s/veh		37.1			43.1			46.1			40.8	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.5	26.5	12.0	29.5	17.3	29.7	21.2	20.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.0	22.0	12.9	23.6	15.9	24.6	18.5	18.0
Max Q Clear Time (g_c+I1), s	15.7	18.1	7.8	12.3	12.7	22.2	16.1	15.0
Green Ext Time (p_c), s	0.2	1.5	0.1	2.2	0.2	1.3	0.6	0.8

Intersection Summary	
HCM 6th Ctrl Delay	41.4
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	559	285	191	115	272	233	221	610	66	275	593	376
Future Volume (veh/h)	559	285	191	115	272	233	221	610	66	275	593	376
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	576	294	197	119	280	240	228	629	68	284	611	388
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	659	586	382	151	633	282	266	802	87	321	992	443
Arrive On Green	0.19	0.28	0.28	0.08	0.18	0.18	0.15	0.25	0.25	0.18	0.28	0.28
Sat Flow, veh/h	3456	2062	1344	1781	3554	1585	1781	3235	349	1781	3554	1585
Grp Volume(v), veh/h	576	252	239	119	280	240	228	345	352	284	611	388
Grp Sat Flow(s),veh/h/ln	1728	1777	1628	1781	1777	1585	1781	1777	1807	1781	1777	1585
Q Serve(g_s), s	14.4	10.5	10.9	5.8	6.2	13.0	11.1	16.1	16.1	13.8	13.3	20.7
Cycle Q Clear(g_c), s	14.4	10.5	10.9	5.8	6.2	13.0	11.1	16.1	16.1	13.8	13.3	20.7
Prop In Lane	1.00		0.83	1.00		1.00	1.00		0.19	1.00		1.00
Lane Grp Cap(c), veh/h	659	505	463	151	633	282	266	441	448	321	992	443
V/C Ratio(X)	0.87	0.50	0.52	0.79	0.44	0.85	0.86	0.78	0.79	0.88	0.62	0.88
Avail Cap(c_a), veh/h	721	505	463	259	721	322	327	441	448	371	992	443
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.9	26.5	26.6	39.8	32.5	35.3	36.8	31.1	31.2	35.5	27.8	30.5
Incr Delay (d2), s/veh	10.9	0.8	1.0	8.9	0.5	17.3	17.0	13.0	13.0	19.6	2.9	21.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.9	4.5	4.3	2.9	2.7	6.3	5.9	8.1	8.3	7.4	5.7	10.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	45.8	27.3	27.6	48.7	33.0	52.6	53.9	44.2	44.1	55.0	30.7	51.5
LnGrp LOS	D	C	C	D	C	D	D	D	D	E	C	D
Approach Vol, veh/h		1067			639			925			1283	
Approach Delay, s/veh		37.4			43.3			46.5			42.4	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	20.5	26.5	12.0	29.7	17.7	29.3	21.4	20.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.0	22.0	12.9	23.6	16.3	24.2	18.5	18.0
Max Q Clear Time (g_c+I1), s	15.8	18.1	7.8	12.9	13.1	22.7	16.4	15.0
Green Ext Time (p_c), s	0.2	1.5	0.1	2.2	0.2	0.8	0.5	0.8

Intersection Summary	
HCM 6th Ctrl Delay	42.1
HCM 6th LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	559	285	191	115	272	233	221	610	66	275	593	376
Future Volume (veh/h)	559	285	191	115	272	233	221	610	66	275	593	376
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	576	294	197	119	280	240	228	629	68	284	611	388
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	679	605	394	152	648	289	308	962	104	367	1118	498
Arrive On Green	0.20	0.29	0.29	0.09	0.18	0.18	0.09	0.30	0.30	0.11	0.31	0.31
Sat Flow, veh/h	3456	2062	1344	1781	3554	1585	3456	3235	349	3456	3554	1585
Grp Volume(v), veh/h	576	252	239	119	280	240	228	345	352	284	611	388
Grp Sat Flow(s),veh/h/ln	1728	1777	1628	1781	1777	1585	1728	1777	1807	1728	1777	1585
Q Serve(g_s), s	13.3	9.7	10.0	5.4	5.8	12.1	5.3	14.0	14.0	6.6	11.8	18.4
Cycle Q Clear(g_c), s	13.3	9.7	10.0	5.4	5.8	12.1	5.3	14.0	14.0	6.6	11.8	18.4
Prop In Lane	1.00		0.83	1.00		1.00	1.00		0.19	1.00		1.00
Lane Grp Cap(c), veh/h	679	522	478	152	648	289	308	528	537	367	1118	498
V/C Ratio(X)	0.85	0.48	0.50	0.78	0.43	0.83	0.74	0.65	0.65	0.77	0.55	0.78
Avail Cap(c_a), veh/h	815	535	490	271	774	345	355	528	537	439	1118	498
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.0	24.0	24.2	37.1	30.0	32.6	36.7	25.3	25.3	36.0	23.5	25.7
Incr Delay (d2), s/veh	7.3	0.7	0.8	8.6	0.5	13.6	6.9	6.2	6.1	7.0	1.9	11.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.1	4.0	3.8	2.7	2.5	5.6	2.4	6.4	6.5	3.0	4.9	8.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	39.3	24.7	25.0	45.7	30.5	46.1	43.6	31.5	31.5	42.9	25.4	37.1
LnGrp LOS	D	C	C	D	C	D	D	C	C	D	C	D
Approach Vol, veh/h		1067			639			925			1283	
Approach Delay, s/veh		32.7			39.2			34.5			32.8	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.3	29.1	11.5	28.8	11.9	30.5	20.7	19.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	10.5	24.0	12.6	24.9	8.5	26.0	19.5	18.0
Max Q Clear Time (g_c+I1), s	8.6	16.0	7.4	12.0	7.3	20.4	15.3	14.1
Green Ext Time (p_c), s	0.2	2.5	0.1	2.5	0.1	2.6	0.9	1.0

Intersection Summary	
HCM 6th Ctrl Delay	34.2
HCM 6th LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	656	307	213	122	294	298	251	759	70	321	696	495
Future Volume (veh/h)	656	307	213	122	294	298	251	759	70	321	696	495
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	676	316	220	126	303	307	259	782	72	331	718	510
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	688	589	400	157	640	285	291	829	76	337	986	440
Arrive On Green	0.20	0.29	0.29	0.09	0.18	0.18	0.16	0.25	0.25	0.19	0.28	0.28
Sat Flow, veh/h	3456	2024	1376	1781	3554	1585	1781	3290	303	1781	3554	1585
Grp Volume(v), veh/h	676	277	259	126	303	307	259	422	432	331	718	510
Grp Sat Flow(s),veh/h/ln	1728	1777	1623	1781	1777	1585	1781	1777	1816	1781	1777	1585
Q Serve(g_s), s	19.5	13.1	13.5	6.9	7.6	18.0	14.2	23.3	23.3	18.5	18.3	27.7
Cycle Q Clear(g_c), s	19.5	13.1	13.5	6.9	7.6	18.0	14.2	23.3	23.3	18.5	18.3	27.7
Prop In Lane	1.00		0.85	1.00		1.00	1.00		0.17	1.00		1.00
Lane Grp Cap(c), veh/h	688	517	472	157	640	285	291	448	458	337	986	440
V/C Ratio(X)	0.98	0.53	0.55	0.80	0.47	1.08	0.89	0.94	0.94	0.98	0.73	1.16
Avail Cap(c_a), veh/h	688	517	472	260	640	285	319	448	458	337	986	440
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.9	29.8	29.9	44.8	36.8	41.0	40.9	36.7	36.7	40.4	32.7	36.1
Incr Delay (d2), s/veh	30.0	1.1	1.4	9.2	0.5	75.0	23.7	30.4	30.1	44.4	4.7	94.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.0	5.7	5.4	3.4	3.3	12.9	7.9	13.4	13.7	11.9	8.2	22.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	69.8	30.8	31.3	54.0	37.3	116.0	64.7	67.1	66.8	84.7	37.4	130.5
LnGrp LOS	E	C	C	D	D	F	E	E	E	F	D	F
Approach Vol, veh/h		1212			736			1113			1559	
Approach Delay, s/veh		52.7			73.0			66.4			77.9	
Approach LOS		D			E			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.4	29.7	13.3	33.6	20.9	32.2	24.4	22.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.9	25.2	14.6	23.3	17.9	26.2	19.9	18.0
Max Q Clear Time (g_c+I1), s	20.5	25.3	8.9	15.5	16.2	29.7	21.5	20.0
Green Ext Time (p_c), s	0.0	0.0	0.1	2.0	0.1	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	67.7
HCM 6th LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	664	309	231	122	295	298	259	759	70	321	696	499
Future Volume (veh/h)	664	309	231	122	295	298	259	759	70	321	696	499
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	685	319	238	126	304	307	267	782	72	331	718	514
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	702	578	422	157	640	285	296	816	75	337	963	430
Arrive On Green	0.20	0.29	0.29	0.09	0.18	0.18	0.17	0.25	0.25	0.19	0.27	0.27
Sat Flow, veh/h	3456	1961	1429	1781	3554	1585	1781	3290	303	1781	3554	1585
Grp Volume(v), veh/h	685	288	269	126	304	307	267	422	432	331	718	514
Grp Sat Flow(s),veh/h/ln	1728	1777	1613	1781	1777	1585	1781	1777	1816	1781	1777	1585
Q Serve(g_s), s	19.7	13.7	14.1	6.9	7.7	18.0	14.7	23.4	23.5	18.5	18.5	27.1
Cycle Q Clear(g_c), s	19.7	13.7	14.1	6.9	7.7	18.0	14.7	23.4	23.5	18.5	18.5	27.1
Prop In Lane	1.00		0.89	1.00		1.00	1.00		0.17	1.00		1.00
Lane Grp Cap(c), veh/h	702	524	476	157	640	285	296	441	450	337	963	430
V/C Ratio(X)	0.98	0.55	0.56	0.80	0.48	1.08	0.90	0.96	0.96	0.98	0.75	1.20
Avail Cap(c_a), veh/h	702	524	476	260	640	285	296	441	450	337	963	430
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.6	29.7	29.8	44.8	36.8	41.0	40.9	37.1	37.1	40.4	33.3	36.5
Incr Delay (d2), s/veh	28.1	1.2	1.5	9.2	0.5	75.0	28.9	33.6	33.3	44.4	5.2	109.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.0	5.9	5.6	3.4	3.4	12.9	8.6	13.8	14.1	11.9	8.3	23.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	67.7	30.9	31.4	54.0	37.3	116.0	69.8	70.7	70.4	84.7	38.5	145.6
LnGrp LOS	E	C	C	D	D	F	E	E	E	F	D	F
Approach Vol, veh/h		1242			737			1121			1563	
Approach Delay, s/veh		51.3			72.9			70.4			83.5	
Approach LOS		D			E			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.4	29.3	13.3	34.0	21.1	31.6	24.8	22.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.9	24.8	14.6	23.7	16.6	27.1	20.3	18.0
Max Q Clear Time (g_c+I1), s	20.5	25.5	8.9	16.1	16.7	29.1	21.7	20.0
Green Ext Time (p_c), s	0.0	0.0	0.1	2.1	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	70.1
HCM 6th LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	664	309	231	122	295	298	259	759	70	321	696	499
Future Volume (veh/h)	664	309	231	122	295	298	259	759	70	321	696	499
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	685	319	238	126	304	307	267	782	72	331	718	514
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	750	631	460	158	689	483	341	908	84	384	1025	801
Arrive On Green	0.22	0.32	0.32	0.09	0.19	0.19	0.10	0.28	0.28	0.11	0.29	0.29
Sat Flow, veh/h	3456	1961	1429	1781	3554	1585	3456	3290	303	3456	3554	1585
Grp Volume(v), veh/h	685	288	269	126	304	307	267	422	432	331	718	514
Grp Sat Flow(s),veh/h/ln	1728	1777	1613	1781	1777	1585	1728	1777	1816	1728	1777	1585
Q Serve(g_s), s	17.2	11.7	12.1	6.2	6.7	14.9	6.7	20.1	20.1	8.4	16.1	21.1
Cycle Q Clear(g_c), s	17.2	11.7	12.1	6.2	6.7	14.9	6.7	20.1	20.1	8.4	16.1	21.1
Prop In Lane	1.00		0.89	1.00		1.00	1.00		0.17	1.00		1.00
Lane Grp Cap(c), veh/h	750	572	519	158	689	483	341	491	501	384	1025	801
V/C Ratio(X)	0.91	0.50	0.52	0.80	0.44	0.64	0.78	0.86	0.86	0.86	0.70	0.64
Avail Cap(c_a), veh/h	756	572	519	258	718	496	372	491	501	384	1025	801
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.1	24.5	24.6	39.8	31.7	26.7	39.2	30.6	30.6	38.9	28.3	16.1
Incr Delay (d2), s/veh	15.5	0.7	0.9	8.7	0.4	2.6	9.6	17.7	17.4	17.8	4.0	3.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.6	4.9	4.6	3.0	2.9	5.8	3.2	10.5	10.7	4.4	7.0	8.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.5	25.2	25.5	48.5	32.1	29.3	48.8	48.3	48.1	56.8	32.3	20.1
LnGrp LOS	D	C	C	D	C	C	D	D	D	E	C	C
Approach Vol, veh/h		1242			737			1121			1563	
Approach Delay, s/veh		38.7			33.7			48.3			33.4	
Approach LOS		D			C			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.4	29.1	12.4	33.2	13.3	30.2	23.8	21.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	9.9	24.6	12.9	24.6	9.6	24.9	19.5	18.0
Max Q Clear Time (g_c+I1), s	10.4	22.1	8.2	14.1	8.7	23.1	19.2	16.9
Green Ext Time (p_c), s	0.0	1.2	0.1	2.6	0.1	1.1	0.1	0.4

Intersection Summary	
HCM 6th Ctrl Delay	38.5
HCM 6th LOS	D

Appendix G

Tribal Consultation

City of LOMPOC

January 20, 2021

Barbareñno /Ventureñno Band of Mission Indians
Julie Tumamait-Stenslie, Chairperson
365 North Poli Ave
Ojai, California 93023

RE: Assembly Bill 52 Consultation, Organic Liberty Lompoc LLC Commercial Cannabis Project, City of Lompoc, Santa Barbara County, California

Dear Chairperson Tumamait-Stenslie:

The City of Lompoc (City) is preparing an Initial Study – Mitigated Negative Declaration for the proposed Organic Liberty Lompoc LLC Commercial Cannabis Nursery, Manufacturing, Processing, and Distribution Project located at 1025 and 1035 West Central Avenue, Lompoc, California. The proposed project consists of the construction of a new 109,000 square foot building for commercial cannabis nursery, manufacturing, processing, and distribution. The building will be two-story (approximately 58,000 square feet on the first floor and 51,000 square feet on the second floor). The project will include indoor cultivation or an indoor nursery; manufacturing, processing, storage, and distribution; and lot line adjustment that will combine the two parcels into one. The proposed project is subject to the California Environmental Quality Act.

The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Barbareñno /Ventureñno Band of Mission Indians is important to the City's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you consult on the proposed project. If you require any additional information or have any questions, please contact me at 805-875-8273 or via e-mail at g_stones@ci.lompoc.ca.us. Thank you for your assistance.

Sincerely,

Greg Stones
Principal Planner
City of Lompoc

Enclosure: Project Location Map

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City of LOMPOC

January 20, 2021

Barbareño/Ventureño Band of Mission Indians
Patrick Tumamait
992 El Camino Corto
Ojai, California 93023

RE: Assembly Bill 52 Consultation, Organic Liberty Lompoc LLC Commercial Cannabis Project, City of Lompoc, Santa Barbara County, California

Dear Mr. Tumamait:

The City of Lompoc (City) is preparing an Initial Study – Mitigated Negative Declaration for the proposed Organic Liberty Lompoc LLC Commercial Cannabis Nursery, Manufacturing, Processing, and Distribution Project located at 1025 and 1035 West Central Avenue, Lompoc, California. The proposed project consists of the construction of a new 109,000 square foot building for commercial cannabis nursery, manufacturing, processing, and distribution. The building will be two-story (approximately 58,000 square feet on the first floor and 51,000 square feet on the second floor). The project will include indoor cultivation or an indoor nursery; manufacturing, processing, storage, and distribution; and lot line adjustment that will combine the two parcels into one. The proposed project is subject to the California Environmental Quality Act.

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The input of the Barbareño/Ventureño Band of Mission Indians is important to the City's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you consult on the proposed project. If you require any additional information or have any questions, please contact me at 805-875-8273 or via e-mail at g_stones@ci.lompoc.ca.us. Thank you for your assistance.

Sincerely,

Greg Stones
Principal Planner
City of Lompoc

Enclosure: Project Location Map

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City of LOMPOC

January 20, 2021

Barbareño/Ventureño Band of Mission Indians
Raudel Banuelos
331 Mira Flores
Camarillo, California 93012

RE: Assembly Bill 52 Consultation, Organic Liberty Lompoc LLC Commercial Cannabis Project, City of Lompoc, Santa Barbara County, California

Dear Mr. Banuelos:

The City of Lompoc (City) is preparing an Initial Study – Mitigated Negative Declaration for the proposed Organic Liberty Lompoc LLC Commercial Cannabis Nursery, Manufacturing, Processing, and Distribution Project located at 1025 and 1035 West Central Avenue, Lompoc, California. The proposed project consists of the construction of a new 109,000 square foot building for commercial cannabis nursery, manufacturing, processing, and distribution. The building will be two-story (approximately 58,000 square feet on the first floor and 51,000 square feet on the second floor). The project will include indoor cultivation or an indoor nursery; manufacturing, processing, storage, and distribution; and lot line adjustment that will combine the two parcels into one. The proposed project is subject to the California Environmental Quality Act.

The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Barbareño/Ventureño Band of Mission Indians is important to the City's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you consult on the proposed project. If you require any additional information or have any questions, please contact me at 805-875-8273 or via e-mail at g_stones@ci.lompoc.ca.us. Thank you for your assistance.

Sincerely,

Greg Stones
Principal Planner
City of Lompoc

Enclosure: Project Location Map

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City of LOMPOC

January 20, 2021

Barbareño/Ventureño Band of Mission Indians
Eleanor Arrellanes
P. O. Box 5687
Ventura, California 93005

RE: Assembly Bill 52 Consultation, Organic Liberty Lompoc LLC Commercial Cannabis Project, City of Lompoc, Santa Barbara County, California

Dear Ms. Arrellanes:

The City of Lompoc (City) is preparing an Initial Study – Mitigated Negative Declaration for the proposed Organic Liberty Lompoc LLC Commercial Cannabis Nursery, Manufacturing, Processing, and Distribution Project located at 1025 and 1035 West Central Avenue, Lompoc, California. The proposed project consists of the construction of a new 109,000 square foot building for commercial cannabis nursery, manufacturing, processing, and distribution. The building will be two-story (approximately 58,000 square feet on the first floor and 51,000 square feet on the second floor). The project will include indoor cultivation or an indoor nursery; manufacturing, processing, storage, and distribution; and lot line adjustment that will combine the two parcels into one. The proposed project is subject to the California Environmental Quality Act.

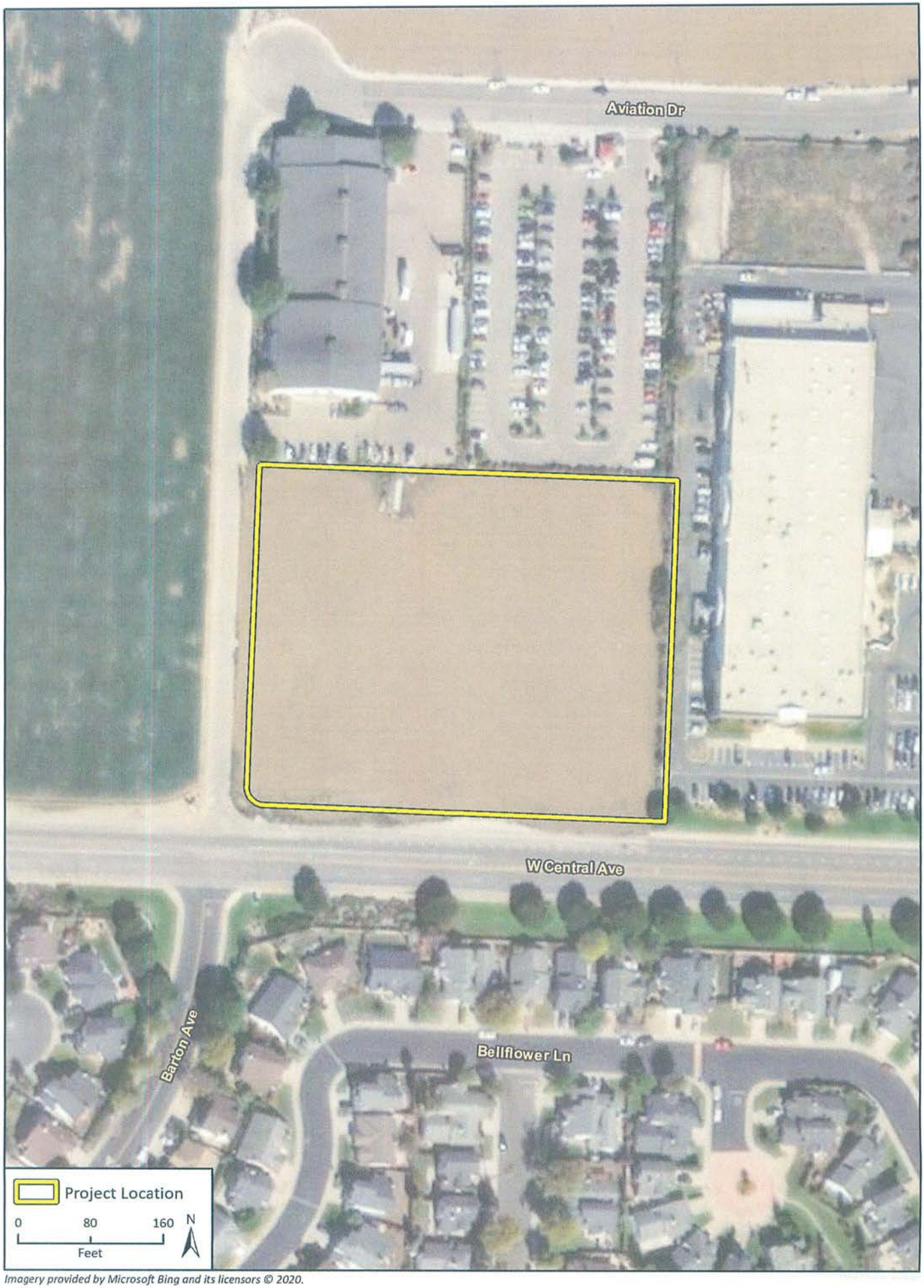
The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Barbareño/Ventureño Band of Mission Indians is important to the City's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you consult on the proposed project. If you require any additional information or have any questions, please contact me at 805-875-8273 or via e-mail at g_stones@ci.lompoc.ca.us. Thank you for your assistance.

Sincerely,

Greg Stones
Principal Planner
City of Lompoc

Enclosure: Project Location Map



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City of LOMPOC

January 20, 2021

Chumash Council of Bakersfield
Julio Quair, Chairperson
729 Texas Street
Bakersfield, California 93307

RE: Assembly Bill 52 Consultation, Organic Liberty Lompoc LLC Commercial Cannabis Project, City of Lompoc, Santa Barbara County, California

Dear Chairperson Quair:

The City of Lompoc (City) is preparing an Initial Study – Mitigated Negative Declaration for the proposed Organic Liberty Lompoc LLC Commercial Cannabis Nursery, Manufacturing, Processing, and Distribution Project located at 1025 and 1035 West Central Avenue, Lompoc, California. The proposed project consists of the construction of a new 109,000 square foot building for commercial cannabis nursery, manufacturing, processing, and distribution. The building will be two-story (approximately 58,000 square feet on the first floor and 51,000 square feet on the second floor). The project will include indoor cultivation or an indoor nursery; manufacturing, processing, storage, and distribution; and lot line adjustment that will combine the two parcels into one. The proposed project is subject to the California Environmental Quality Act.

The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Chumash Council of Bakersfield is important to the City's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you consult on the proposed project. If you require any additional information or have any questions, please contact me at 805-875-8273 or via e-mail at g_stones@ci.lompoc.ca.us. Thank you for your assistance.

Sincerely,

Greg Stones
Principal Planner
City of Lompoc

Enclosure: Project Location Map

100 CIVIC CENTER PLAZA, LOMPOC, CA 93436
PHONE: 805-736-1261 FAX: 805-736-5347

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City of LOMPOC

January 20, 2021

Coastal Band of the Chumash Nation
Mariza Sullivan, Chairperson
P. O. Box 4464
Santa Barbara, California 93140

RE: Assembly Bill 52 Consultation, Organic Liberty Lompoc LLC Commercial Cannabis Project, City of Lompoc, Santa Barbara County, California

Dear Chairperson Sullivan:

The City of Lompoc (City) is preparing an Initial Study – Mitigated Negative Declaration for the proposed Organic Liberty Lompoc LLC Commercial Cannabis Nursery, Manufacturing, Processing, and Distribution Project located at 1025 and 1035 West Central Avenue, Lompoc, California. The proposed project consists of the construction of a new 109,000 square foot building for commercial cannabis nursery, manufacturing, processing, and distribution. The building will be two-story (approximately 58,000 square feet on the first floor and 51,000 square feet on the second floor). The project will include indoor cultivation or an indoor nursery; manufacturing, processing, storage, and distribution; and lot line adjustment that will combine the two parcels into one. The proposed project is subject to the California Environmental Quality Act.

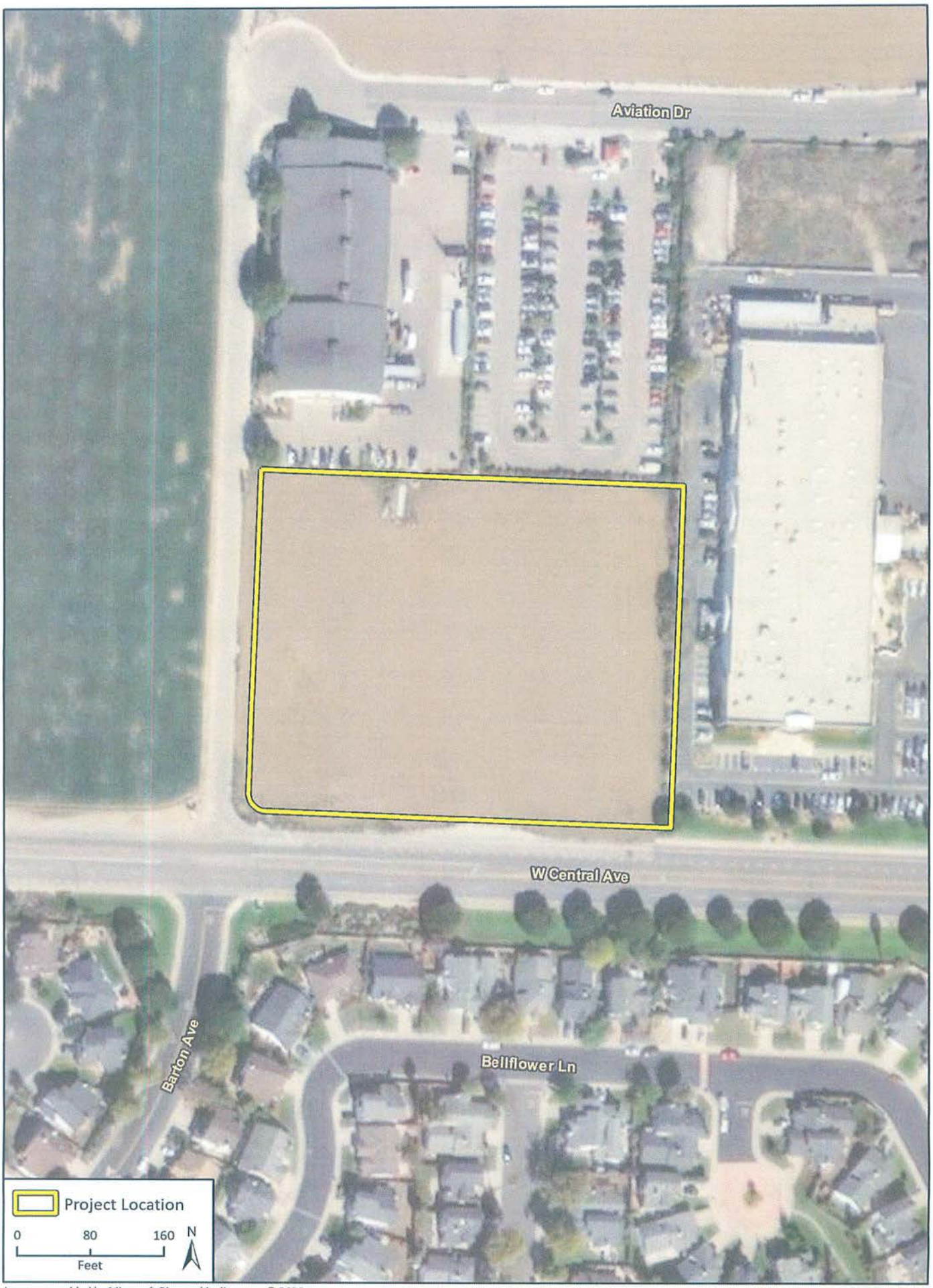
The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Coastal Band of the Chumash Nation is important to the City's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you consult on the proposed project. If you require any additional information or have any questions, please contact me at 805-875-8273 or via e-mail at g_stones@ci.lompoc.ca.us. Thank you for your assistance.

Sincerely,

Greg Stones
Principal Planner
City of Lompoc

Enclosure: Project Location Map



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City of LOMPOC

January 20, 2021

Northern Chumash Tribal Council
Fred Collins, Spokesperson
P.O. Box 6533
Los Osos, California 93412

RE: Assembly Bill 52 Consultation, Organic Liberty Lompoc LLC Commercial Cannabis Project, City of Lompoc, Santa Barbara County, California

Dear Mr. Collins:

The City of Lompoc (City) is preparing an Initial Study – Mitigated Negative Declaration for the proposed Organic Liberty Lompoc LLC Commercial Cannabis Nursery, Manufacturing, Processing, and Distribution Project located at 1025 and 1035 West Central Avenue, Lompoc, California. The proposed project consists of the construction of a new 109,000 square foot building for commercial cannabis nursery, manufacturing, processing, and distribution. The building will be two-story (approximately 58,000 square feet on the first floor and 51,000 square feet on the second floor). The project will include indoor cultivation or an indoor nursery; manufacturing, processing, storage, and distribution; and lot line adjustment that will combine the two parcels into one. The proposed project is subject to the California Environmental Quality Act.

The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

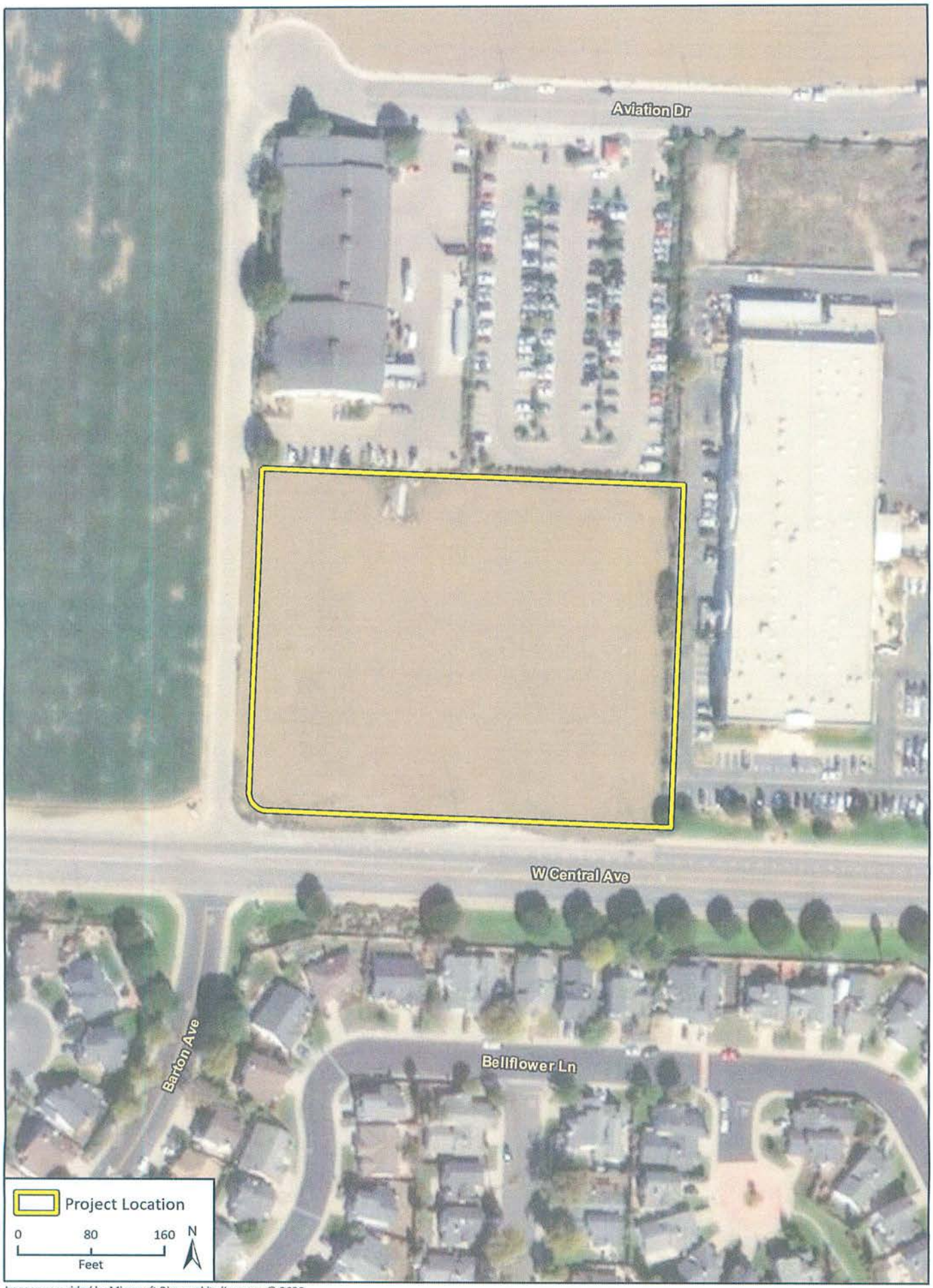
The input of the Northern Chumash Tribal Council is important to the City's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you consult on the proposed project. If you require any additional information or have any questions, please contact me at 805-875-8273 or via e-mail at g_stones@ci.lompoc.ca.us. Thank you for your assistance.

Sincerely,

Greg Stones
Principal Planner
City of Lompoc

Enclosure: Project Location Map

100 CIVIC CENTER PLAZA, LOMPOC, CA 93436
PHONE: 805-736-1261 FAX: 805-736-5347



City of LOMPOC

January 20, 2021

San Luis Obispo County Chumash Council
Mark Vigil, Chief
1030 Ritchie Road
Grover Beach, California 93433

RE: Assembly Bill 52 Consultation, Organic Liberty Lompoc LLC Commercial Cannabis Project, City of Lompoc, Santa Barbara County, California

Dear Chief Vigil:

The City of Lompoc (City) is preparing an Initial Study – Mitigated Negative Declaration for the proposed Organic Liberty Lompoc LLC Commercial Cannabis Nursery, Manufacturing, Processing, and Distribution Project located at 1025 and 1035 West Central Avenue, Lompoc, California. The proposed project consists of the construction of a new 109,000 square foot building for commercial cannabis nursery, manufacturing, processing, and distribution. The building will be two-story (approximately 58,000 square feet on the first floor and 51,000 square feet on the second floor). The project will include indoor cultivation or an indoor nursery; manufacturing, processing, storage, and distribution; and lot line adjustment that will combine the two parcels into one. The proposed project is subject to the California Environmental Quality Act.

The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the San Luis Obispo County Chumash Council is important to the City's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you consult on the proposed project. If you require any additional information or have any questions, please contact me at 805-875-8273 or via e-mail at g_stones@ci.lompoc.ca.us. Thank you for your assistance.

Sincerely,

Greg Stones
Principal Planner
City of Lompoc

Enclosure: Project Location Map

100 CIVIC CENTER PLAZA, LOMPOC, CA 93436
PHONE: 805-736-1261 FAX: 805-736-5347

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City of LOMPOC

January 20, 2021

Santa Ynez Band of Chumash Indians
Freddie Romero, Chairperson
P.O. Box 517
Santa Ynez, California 93460

RE: Assembly Bill 52 Consultation, Organic Liberty Lompoc LLC Commercial Cannabis Project, City of Lompoc, Santa Barbara County, California

Dear Chairperson Romero:

The City of Lompoc (City) is preparing an Initial Study – Mitigated Negative Declaration for the proposed Organic Liberty Lompoc LLC Commercial Cannabis Nursery, Manufacturing, Processing, and Distribution Project located at 1025 and 1035 West Central Avenue, Lompoc, California. The proposed project consists of the construction of a new 109,000 square foot building for commercial cannabis nursery, manufacturing, processing, and distribution. The building will be two-story (approximately 58,000 square feet on the first floor and 51,000 square feet on the second floor). The project will include indoor cultivation or an indoor nursery; manufacturing, processing, storage, and distribution; and lot line adjustment that will combine the two parcels into one. The proposed project is subject to the California Environmental Quality Act.

The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Santa Ynez Band of Chumash Indians is important to the City's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you consult on the proposed project. If you require any additional information or have any questions, please contact me at 805-875-8273 or via e-mail at g_stones@ci.lompoc.ca.us. Thank you for your assistance.

Sincerely,

Greg Stones
Principal Planner
City of Lompoc

Enclosure: Project Location Map

100 CIVIC CENTER PLAZA, LOMPOC, CA 93436
PHONE: 805-736-1261 FAX: 805-736-5347