

PIKE SOLAR LLC



Appendix AJ-Traffic Memo



Sustainable Traffic Solutions

Joseph L. Henderson PE, PTOE
Traffic Engineer / Principal

June 17, 2021

Claire Gerrish
Project Planner
juwi, Inc.
1719 29th Street, Suite 1068
Boulder, CO 80301

RE: Trip Generation Estimate for the Pike Solar Project in El Paso County

Dear Claire,

Based on your request, this trip generation estimate has been prepared for the Pike Solar Project in El Paso County. The project site is located east of Fountain and south of Squirrel Creek Road in rural El Paso County. Construction of the project is planned to begin in July 2021 and conclude in August 2023. Work on the site is expected to occur Monday through Saturday during daylight hours between 7:00 a.m. and 7:00 p.m.

Two haul routes are planned between I-25 and the project site. A map is attached to this letter that shows one route through the northern part of Fountain beginning at MP 128 (Green Route) and a second route south of Fountain that begins at MP 122 (Orange Route). First, the Green Route is designated for daily personnel traffic. It will begin at MP 128 of I-25 and will utilize truck routes to Squirrel Creek Road where it enters the site near the landfill. Second, the Orange Route will primarily be used to haul equipment and materials to the site. The Orange Route will begin at MP 122 of I-25, continue on Old Pueblo Road, east on Birdsall Road, and enter the project site from the west on a temporary road that will be constructed for the project.

Site-generated traffic estimates are determined through a process known as trip generation. The number of trips was estimated for this project based on anticipated construction activity and operations. Construction of the project is not a land use that is contained in the Institute of Transportation Engineers (ITE) Trip Generation¹ manual, so it was necessary to estimate the number of trips using information provided by juwi and Core Consultants. The estimate includes trips generated by the people who will construct the project as well as for the material deliveries. Table 1 contains a breakdown of major work tasks and the traffic volumes associated with each task. Maximum daily trip generation is expected to range between 150 and 202 trips per day. Trips occurring during the morning and evening peak hours are expected to range between 150 and 155 trips per peak hour. Once the construction is completed, a small number of maintenance personnel will visit the site each day resulting in insignificant traffic volumes.

¹ Trip Generation, 10th Edition. Institute of Transportation Engineers. September 2017.

Claire Gerrish

June 17, 2021

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A review of the anticipated trip generation shows that the traffic generated by this development will be accommodated in the existing roadway network and no changes to roadway configuration are suggested.

Please contact me with questions.

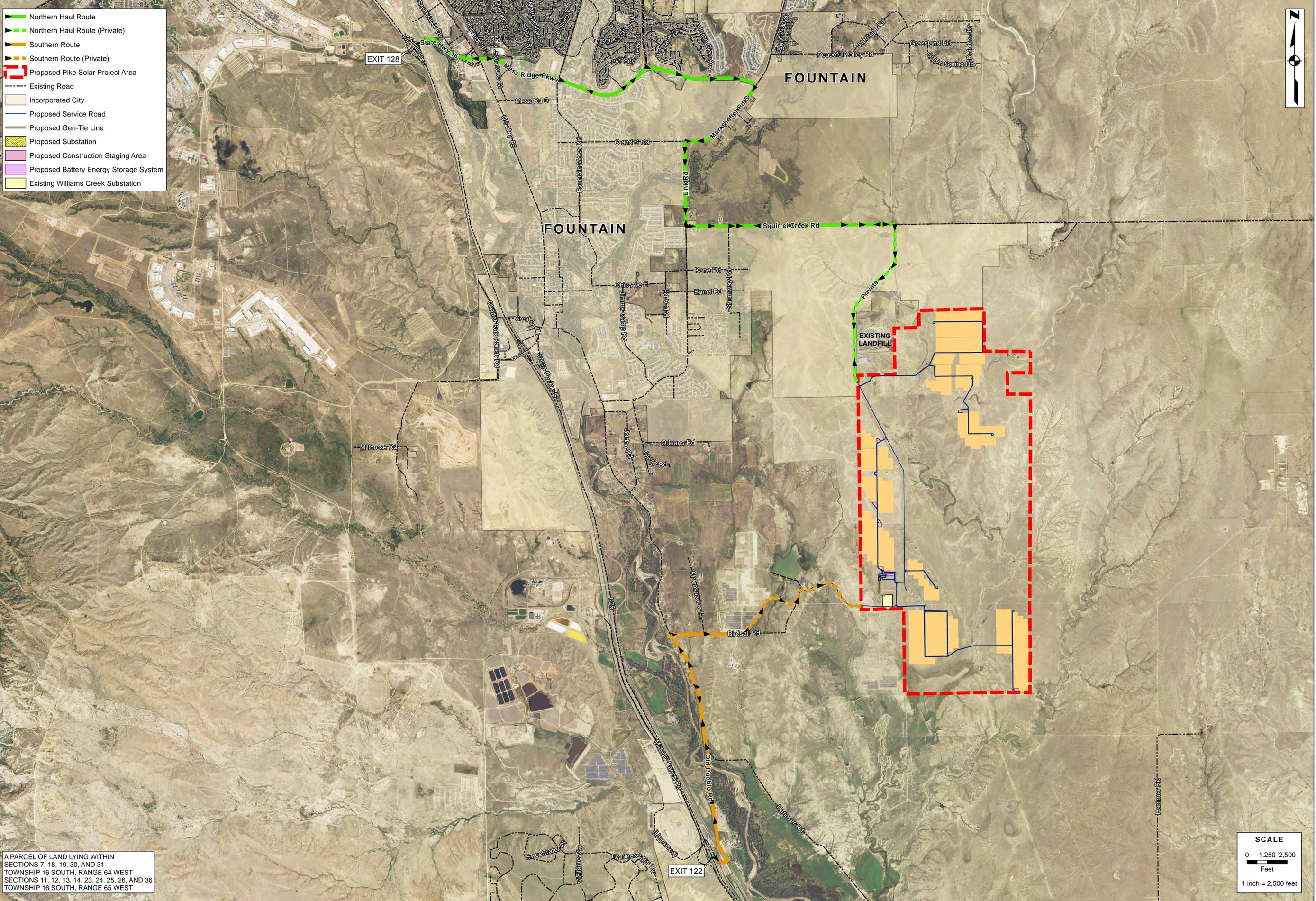
Sincerely,

A handwritten signature in blue ink that reads "Joseph L. Henderson". The signature is written in a cursive style with a large initial "J" and "H".

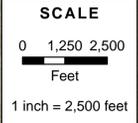
Joseph L. Henderson, PE, PTOE

Project Manager / Principal

Pike Solar Trip Gen Letter 6-17-21



A PARCEL OF LAND LYING WITHIN SECTIONS 7, 18, 19, 30, AND 31 TOWNSHIP 16 SOUTH, RANGE 64 WEST SECTIONS 11, 12, 13, 14, 23, 24, 25, 26, AND 36 TOWNSHIP 16 SOUTH, RANGE 65 WEST



- - - Northern Haul Route
- - - Northern Haul Route (Private)
- - - Southern Route
- - - Southern Route (Private)
- - - Proposed Pike Solar Project Area
- - - Existing Road
- Incorporated City
- Proposed Service Road
- Proposed Gen-Tie Line
- Proposed Substation
- Proposed Construction Staging Area
- Proposed Battery Energy Storage System
- Existing Williams Creek Substation

**PIKE SOLAR PROJECT
COMPLIANCE PLAN
HAUL ROUTE MAP**
EL PASO COUNTY, COLORADO

DESIGNED BY:
DRAWN BY:
CHECKED BY:
JOB NO.
SHEET
OF

#	REVISION DESCRIPTION	DATE	BY
1	1.5 L. SUBMITTAL	10/27/2023	JD

811
Remember to call before you dig.
Call before you dig.

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG. GRADES AND UNDERGROUND UTILITIES. CORE ASSUMES NO RESPONSIBILITY FOR ANYTHING UNLESS SPECIFICALLY NOTED IN THE LOCATION (HORIZONTAL AND VERTICAL), THE EXISTING UTILITIES AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES. HOWEVER, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES IS THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.



3473 S. BROADWAY
ENGLEWOOD, CO 80113
303.705.4444

Table 1. Estimated Construction Schedule and Daily Trip Generation Estimate

Construction Phase	Time Frame		Vehicle Weight (1000 lbs)	Total Number of Trips	Maximum Daily Trips ¹																											
					2021						2022												2023									
	Beginning	End			July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	July	Aug		
Worker Travel ²	July 2021	August 2023	2 to 6	50,000	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150			
Light Civil Equipment Mobilization ³	September 2021	June 2023	30	40			4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
Heavy Civil Equipment Mobilization ³	September 2021	June 2023	50	10			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
Concrete Delivery ³	September 2021	June 2023	66	200			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
Road Base Delivery ³	September 2021	June 2023	60	3,100			20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20				
PV Panel Delivery ³	September 2022	April 2023	51	570														4	4	4	4	4	4	4	4	4	4					
Racking Post Delivery ³	October 2021	January 2022	40	120				2	2	2	2																					
Racking Tube Delivery ³	November 2021	June 2022	24	500					4	4	4	4	4	4	4																	
Racking Equipment ³	October 2021	March 2022	30	260				4	4	4	4	4																				
Power Station Delivery ³	February 2022	March 2023	40	50								2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
Wire / Cabling Delivery ³	November 2021	December 2021	20	50					2	2																						
DC Combiner Box Delivery ³	January 2022	March 2022	30	10							2	2	2																			
BESS Delivery ³	June 2022	September 2022	48	60											2	2	2	2														
Substation Delivery ³	September 2021	October 2022	40	30			4	4	4	4	4	4	4	4	4	4	4	4	4													
Oversize Load Delivery ³	September 2022	September 2022	110	10														2														
Maximum Daily Trips	---	---	---	---	150	150	190	196	202	202	202	202	202	196	196	198	194	194	200	196	192	192	192	192	190	186	186	150	150			
Maximum Peak Hour Trips			---	---	150	150	154	155	155	155	155	155	155	155	155	155	154	154	155	155	154	154	154	154	154	154	154	150	150			

Notes.

1. A trip is defined as a vehicle traveling to or from a site. Therefore, a round trip is equal to two trips.
2. Construction traffic includes the people who will construct the solar facility. It is assumed to include a maximum of 150 workers driving to and from the site during the peak hours. Car pooling is assumed with an average of 2.0 occupants per vehicle.
3. 10% of these trips are assumed to occur during the morning and evening peak hour.