## Kimley »Horn

April 12, 2024

Mr. Jeffrey D. Rice, PE, CFM Senior Engineer El Paso County Department of Public Works 3275 Akers Drive Colorado Springs, Colorado 80922

Re: Barbarick Waste Transfer Station Project Traffic Contribution Letter – Support for Escrow Agreement El Paso County, Colorado

Dear Mr. Rice,

This letter is a supplement to the Barbarick Waste Transfer Station Traffic Impact Study completed by Kimley-Horn and Associates in August 2023. The purpose of this supplemental letter is to provide an improvement summary with project traffic contributions for the Barbarick Waste Transfer Station Escrow Agreement. The Barbarick Waste Transfer Station is anticipated to include an intermediate transfer facility located near the southeast corner of the Lochwinnoch Lane/Carah Dawn View and Vollmer Road intersection in El Paso County, Colorado.

Based on the findings of the original traffic impact study for this project, northbound and southbound left turn lanes with 245 feet of length plus 180-foot tapers were recommended at the intersection of Lochwinnoch Lane/Carah Dawn View and Vollmer Road to meet El Paso County Standards. Additionally, a northbound right turn lane with 350 feet of length plus a 250-foot taper exists and provides access to the project site.

There are currently four (4) trips making a southbound left turn and 13 trips making a northbound right turn during the morning peak hour at the Lochwinnoch Lane/Carah Dawn View and Vollmer Road intersection. The Barbarick Waste Transfer Station project is anticipated to have four (4) southbound left turn movements and 14 northbound right turn movements. Based on El Paso County standards, the threshold for a left turn lane is 25 vehicles per hour whereas the threshold for a right turn lane is 50 vehicles per hour. Therefore, 21 additional trips (25 trips to warrant the turn lane minus four (4) existing trips) would be needed beyond the existing volumes to warrant a southbound left turn lane and 37 additional trips (50 trips to warrant the turn lane minus 13 existing trips) would be needed beyond the existing volume to warrant a northbound right turn lane. Therefore, the Barbarick Waste Transfer Station makes up 19.0 percent (4/21) of the remaining traffic needed to warrant a northbound left turn lane.

It is understood that the northbound left turn lane was recently constructed at this intersection in association with the Sterling Ranch project. As directed by El Paso County and based on project traffic not contributing to the northbound left turn movement and this turn lane recently being constructed, a project traffic contribution was not provided for this

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Barbarick Waste Transfer Station 196489000 Page 2

northbound left turn lane. The applicable documents from the original traffic study for this project are attached.

This letter summarizes the cost sharing mechanism for the future planned southbound left turn lane and the existing northbound right turn lane at the Carah Dawn View and Vollmer Road intersection. Based on the calculated project traffic contribution, the project would be responsible for 19.0 percent of the costs associated with construction of this southbound left turn lane and 37.8 percent of the costs associated with the previously constructed northbound right turn lane. It is believed that Escrow for this turn lane will be coordinated in the future through discussions with the project team and County staff. If you have any questions or require anything further, please feel free to call me at (720) 647-6229.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.

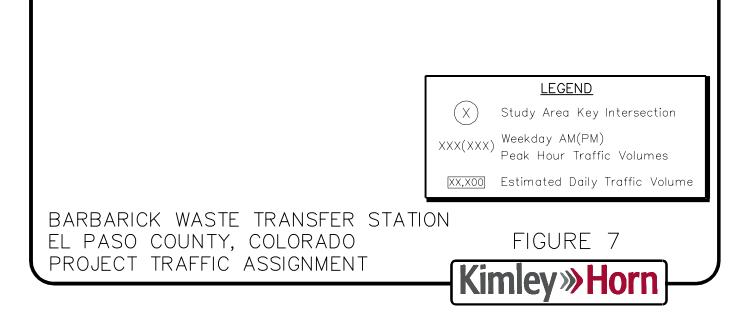
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Tyler E. Smith, P.E. Traffic Engineer





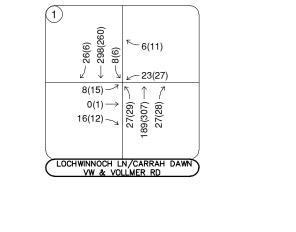


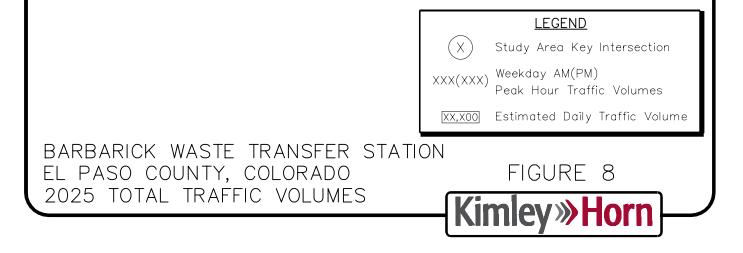


LOCHWINNOCH LN/CARRAH DAWN VW & VOLLMER RD









## Kimley »Horn 2 North Nevada, Suite 900

Colorado Springs, Colorado 80903

Barbarick Transfer Station - COM-2346 - ESCROW: SB Left Turn Lane	Prepared By:	RES
196489000	Checked By:	EJG
April 15, 2024		
-	196489000	196489000 Checked By:

Bid	Item #	Item Description	Unit	Unit Cost	Quantity	Extended Cost
1	1	DESIGN / DEVELOPMENT SERVICES	LS	\$40,000.00	1	\$40,000
2	2	EARTHWORK	CY	\$10.00	1,000	\$10,000
3	3	REMOVAL OF ASPHALT MAT	SY	\$30.00	150	\$4,500
4	4	REMOVAL OF PAVEMENT MARKING	SF	\$3.00	300	\$900
5	5	CONCRETE WASHOUT BASIN	EA	\$1,090.00	1	\$1,090
6	6	SILT FENCE	LF	\$3.00	650	\$1,950
7	7	SEDIMENT BASIN (EXISTING DETENTION POND)	EA	\$2,135.00	0	\$0
8	8	STRAW WATTLE/ROCK SOCK	LF	\$7.00	600	\$4,200
9	9	VEHICLE TRACKING CONTROL	EA	\$2,870.00	1	\$2,870
10	10	AGGREGATE BASE COURSE (135LB/CF)(12-INCH)	TON	\$75.00	291	\$21,825
11	11	ASPHALT PAVEMENT (147LB/CF)(6-INCH)	TON	\$150.00	158	\$23,700
12	12	EPOXY PAVEMENT MARKING	SF	\$16.00	350	\$5,600
13	13	THERMOPLASTIC PAVEMENT MARKING	SF	\$28.00	40	\$1,120
14	14	SEEDING (EPC LOW GROW MIX)	SF	\$0.75	2,000	\$1,500
15	15	SWEEPING	HR	\$250.00	10	\$2,500
16	16	SEEDING (EPC LOW GROW MIX)	SF	\$0.75	2,000	\$1,500
		PROJECT CONSTRUCTION BID ITEMS COST			в	\$123,25
Con	ntingencies (Con	struction Items)	(0 - 25%) of <b>B</b>		20.0%	\$24,651
Tota	al Project Cost					\$147,906

Conceptual Opinion of Probable Construction Cost The Engineer has no control over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs provided herein are based on the information known to Engineer at this time and represent only the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from its opinions of probable costs.

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