



WASTEWATER REPORT – LOT 1 STERLING RECYCLING FACILITY SITE DEVELOPMENT PLAN



PREPARED BY

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PREPARED FOR

Falcon Area Water and Wastewater Authority

SEPTEMBER 15, 2023

Project Number W0242.22001



RESPEC

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1.0 INTRODUCTION

This wastewater report is for the Lot 1 Sterling Recycling Facility Site Development Plan. The service entity is the Falcon Area Water and Wastewater Authority. The proposed development is in the Sterling Ranch Metro District which is a part of the FAWWA service area. The service areas and location of tie-in point are shown in Appendix A.

1.1 OVERALL DEVELOPMENT DESCRIPTION

The overall Sterling Ranch Development consists of approximately 1,444 acres located east of Vollmer Rd and north of Woodmen Rd, Section 33, Township 12 South, Range 65 West of the 6th P.M. Districts 1, 2 and 3 are considered Special Districts and are under the jurisdiction of the Special District Act.

1,119 acres is designated for 4800 residential units. 56.36 acres is designated for commercial use. 270 acres is designated for open space, greenways, trails, parks, and school sites.

1.2 REPORT SPECIFIC DEVELOPMENT DESCRIPTION

This report is for the Lot 1 Sterling Recycling Facility Site Development Plan and includes 2 commercial/industrial lots. The Lot 1 Sterling Recycling Facility Site Development Plan consists of approximately 32.62 acres located in, Section 5, Township 12 South, Range 65 West of the 6th P.M.

2.0 WASTEWATER REPORT

2.1 PROJECTED WASTEWATER LOADS

Wastewater unit user loading projections are based on similar District historical use developed in the Falcon area. Average daily- maximum monthly wastewater loads are expected to be roughly 172 gallons per day per single family residence. There is no wastewater service planned for the 24 acre lot as it has no structures. A single SFE is expected for the proposed storage units.

Table 1. Calculation of Wastewater Loads

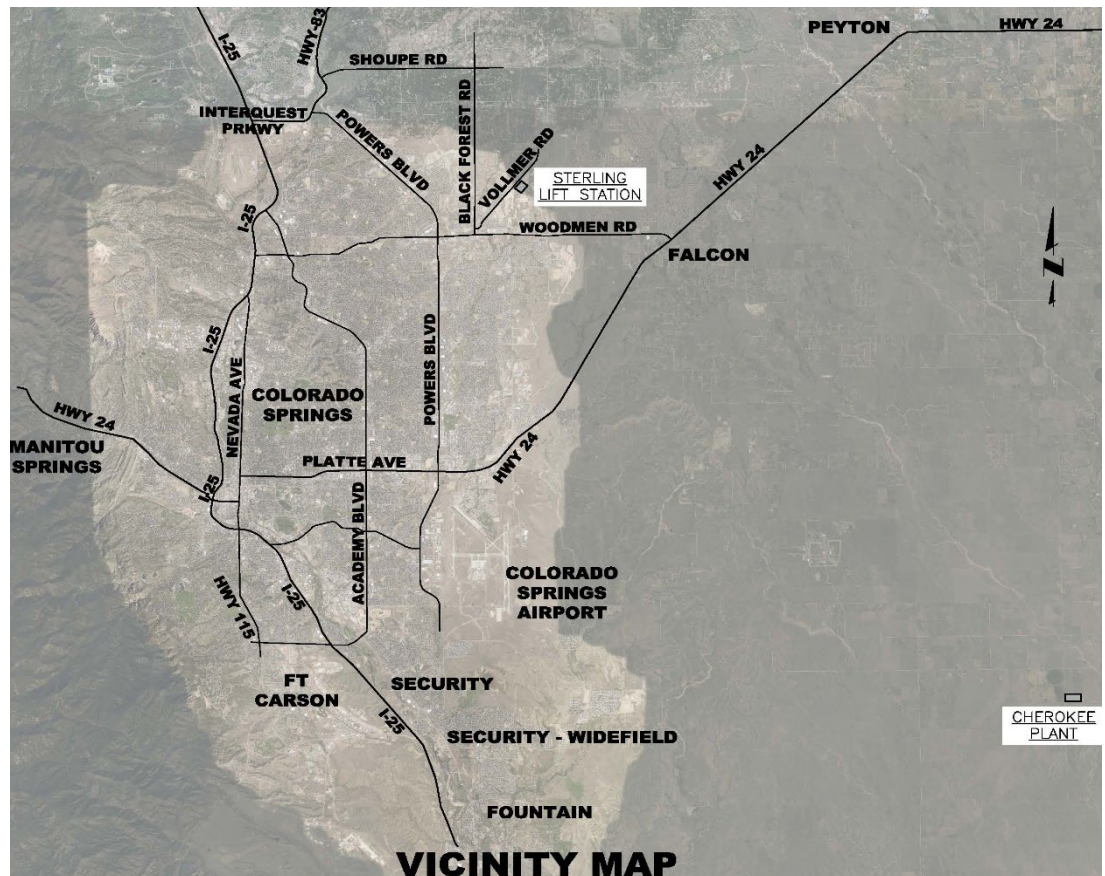
Use	Units	Single Family Equivalent	Average Daily Max-Month Flows	Estimated Population
	#	#	GPD	#
Residential Units				
Single Family	1	172	172	2.6
Total			172	

2.2 WASTEWATER TREATMENT PLANT

Interim Wastewater Treatment Services will be provided by Colorado Springs Utilities. A copy of the Interim Service Agreement was attached in prior Water and Wastewater Reports and therefore is not included here. An agreement relating to completion of the wastewater outfall and the associated EGF has been extended.

MSMD owns 2.2 million gallons per day of wastewater capacity in the Cherokee Wastewater Treatment Facility. The plant operator, Cherokee Metropolitan District (CMD) has already approved the systems associated with transport and treatment. MSMD and CMD are in compliance with their current COC issued by the Colorado Department of Public Health and Environment. The location of the 4.6 MGD Cherokee Wastewater Treatment Plant is shown below:

Figure 1. Location of Cherokee Wastewater Treatment Plant



2.3 ADEQUACY OF WASTEWATER TREATMENT CAPACITY

The Falcon Area Water and Wastewater Authority/Sterling Ranch Metropolitan District has a perpetual contract with the Meridian Service Metropolitan District (MSMD) for the provision of wastewater treatment. The contract allows for the purchase of up to 5849 SFEs of wastewater capacity from



MSMD which is equivalent to 1.006 Million Gallons/Day (MGD). Wastewater projections are based on similar District historical use developed in the Falcon area. Average daily-maximum monthly wastewater loads of 172 gallons per day per single family residence are iterated in the Wastewater Contract.



The loading projected from Lot 1 Sterling Recycling Facility Site Development Plan represents roughly 0.017 % of the contractual capacity available to the Falcon Area Water and Wastewater Authority. FAWWA therefore has more than adequate wastewater treatment capacity to provide service to serve the Subdivision.

Including all subdivisions submitted before September 15 of 2023, the current committed capacity is for 2814 SFE which is 48.11 % of FAWWA contractual treatment capacity.

2.4 COLLECTION, PUMPING, AND PIPING

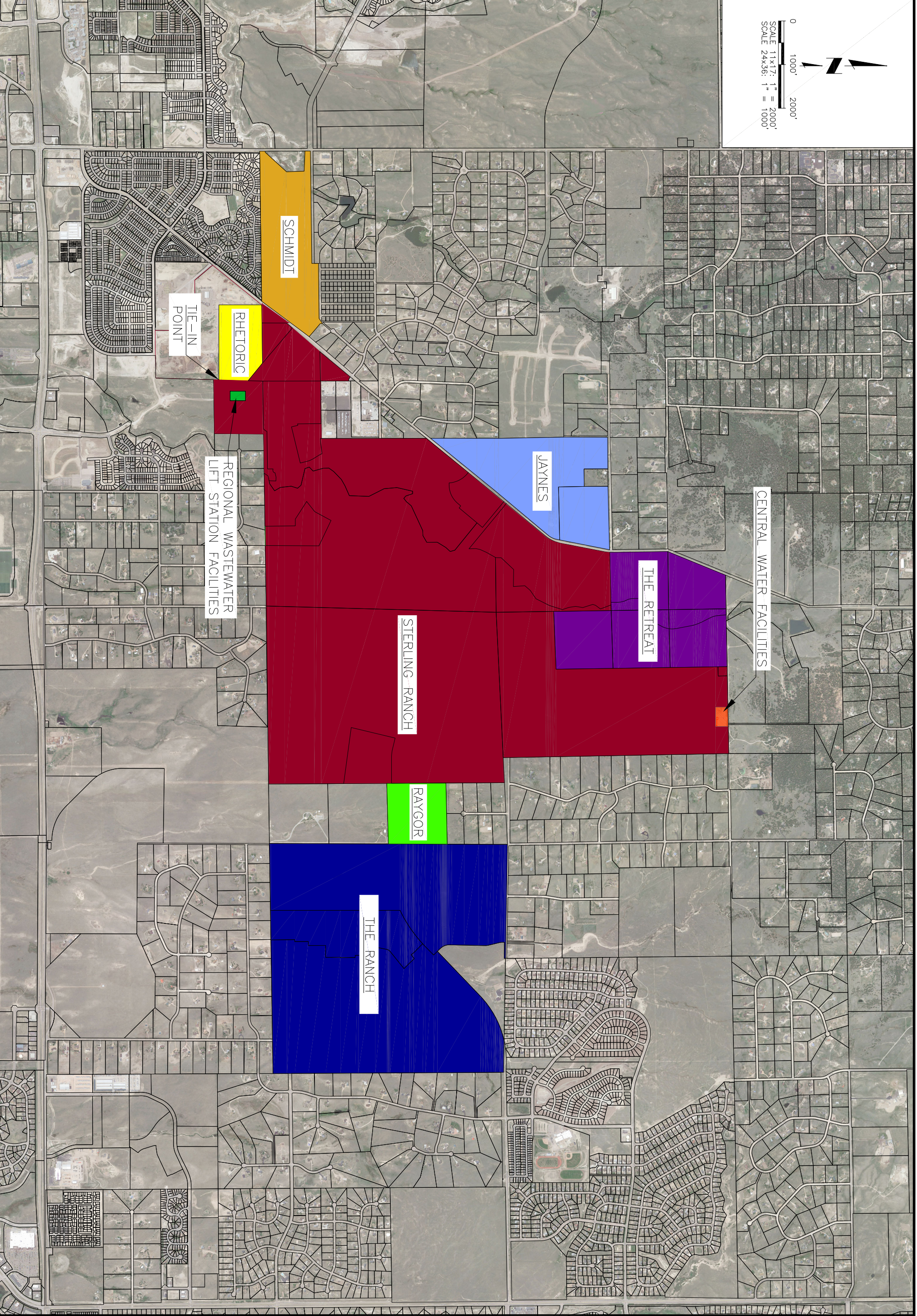
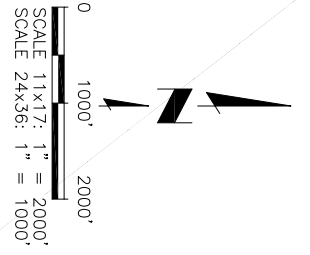
All lands to be developed within Lot 1 Sterling Recycling Facility Site Development Plan will gravity feed to the southern portion of the Sterling site. This will be the main collection point for most of the entire future development as well. Sterling is completing construction of the Lift Station and Force Main to serve the area. The force main is constructed across the lower portion of The Ranch. From this point wastewater is intercepted by Meridian Service Metropolitan District and delivered to Cherokee through the Meridian system.



APPENDIX A

WATER SERVICE AREAS





PROJECT NO.: 161.04
 DATE: 8/15/2023
 DESIGNER: JPM
 DRAWN: JLB
 CHECK: JPM

REVISIONS			
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

EXHIBIT

APPENDIX A
 FALCON AREA WATER AND WASTEWATER AUTHORITY
 SERVICE AREA

JDS-HYDRO a Division of **RESPEC**
 5540 TECH CENTER DR., SUITE 100
 COLORADO SPRINGS, COLORADO 80919
 (719) 227-0072

DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.



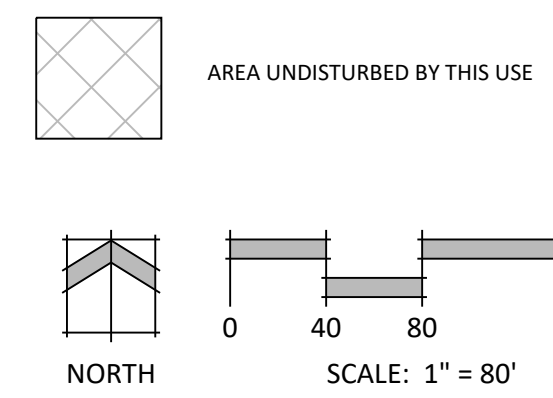
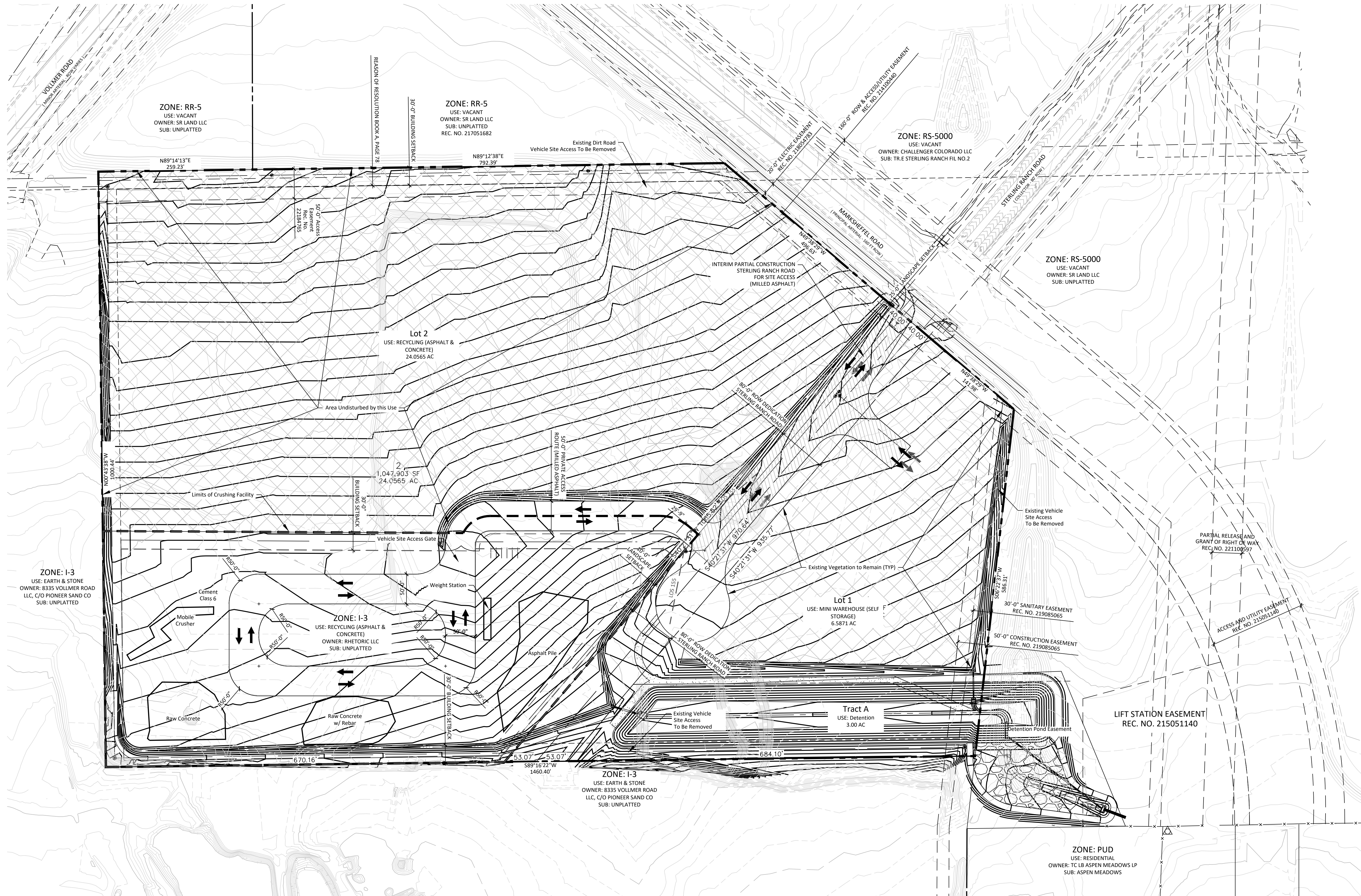
APPENDIX B

LOT 1 STERLING RECYCLING FACILITY SITE DEVELOPMENT PLAN



LOT 1, STERLING RECYCLING FACILITY

SECTION 5 IN TOWNSHIP 12 SOUTH RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN EL PASO COUNTY, CO
SITE DEVELOPMENT PLAN



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STERLING RECYCLING FACILITY

SITE DEVELOPMENT PLAN
VOLLMER ROAD

DATE: 07.07.2023
PROJECT MGR: A. BARLOW
PREPARED BY: J. SHAGIN

DATE:	BY:	DESCRIPTION:

SITE DEVELOPMENT PLAN

2

2 OF 6

PPR-22-041

P:\Rhetoric LLC\Sterling Recycling Facility (Cement and Asphalt)\Drawings\Planning\DP\Crushing Site Development Plan_recover.dwg (Plan) 8/17/2023 2:30:22 PM Jennifer Shagin