



| Cascade Services, LLC | 3403-B E. County Road 44, Midland, TX 79705 |

## Rule 34 Registration

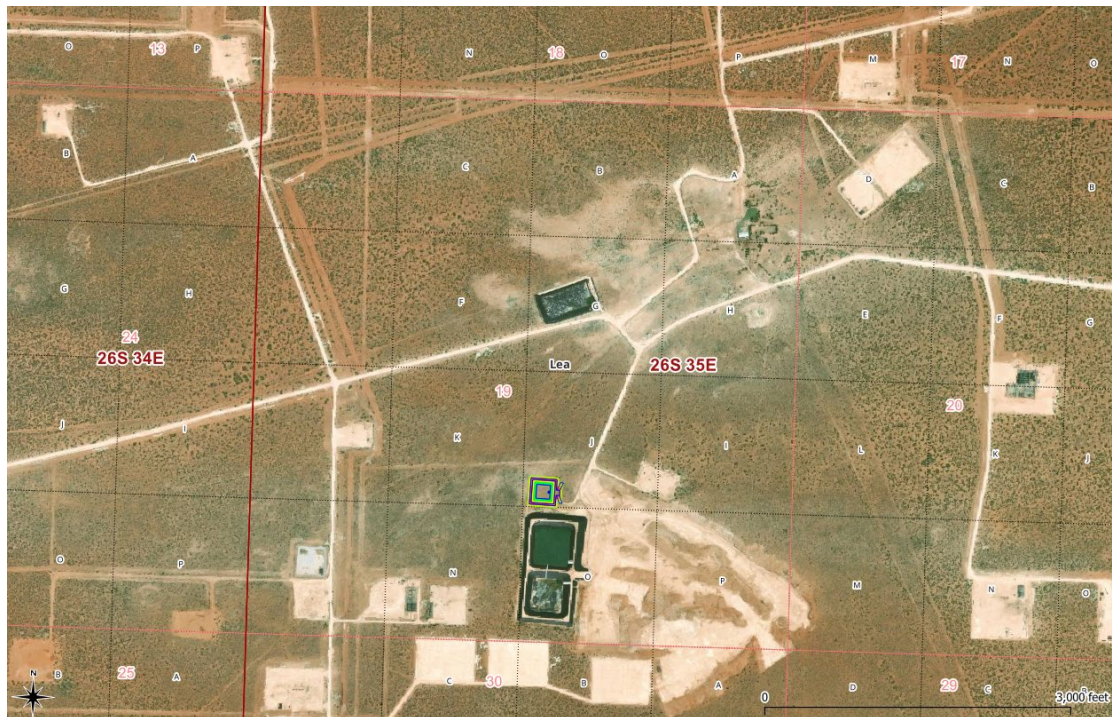
February 2026

## Andrews Recycling Facility & Containments

Section 19, Township 26S, Range 35E, Lea County

### MODIFICATION - 1RF-535

- Transmittal Letter
- Location Detail Plate
- C-147
- Closure Cost
- Stamped Engineered As-Built Drawings



*This satellite imagery shows the location of the existing freshwater pond (the colored contours in the southwest corner of U/L J in section 19 of 26S 35E) to the existing Andrews Recycling Facility & Containments ponds located on the west side of U/L O in section 19 of 26S 35E.*

### Prepared for:

Hydrosource Logistics  
Waste Management, LLC

Midland, TX

### Prepared by:

George Jennings  
Cascade Services LLC  
Midland, Texas



| Cascade Services, LLC | 3403-B E. County Road 44, Midland, TX 79705 |

February 2026

Ms. Leigh Barr  
EMNRD – Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505  
Via E-Mail

Ms. Victoria Venegas  
NMOCD – District 2  
811 S. First St.  
Artesia, NM 88210  
Via E-Mail

RE: Hydrosource Logistics Waste Management, LLC, Andrews Recycling Facility and  
Containments, In-ground Containment Modification  
Section 19, Township 26S, Range 35E, Lea County

Dear Ms. Barr and Ms. Venegas:

We are pleased to submit a C-147 *Modification* for the above-referenced project.

The modification consists of adding an additional containment to the existing registration. Hydrosource originally built what was intended to be a fresh water pond adjacent to the Andrews Recycling Facility & Containments. However, they now wish to convert it to a produced water pond. Because the freshwater pond is less than 100 feet north of the existing Andrews Recycling Facility & Containments, and after careful review, converting this containment from fresh to produced water does not impact the Siting Criteria Demonstration of the approved Volume 1, or the variances, Design and Construction Plan, Operations and Maintenance Plan, or Closure Plan presented and approved in Volume 2. With your approval, we will only submit the relevant changes as part of this modification.

The closure cost is only for the converted Andrews Recycling Facility & Containments North pond. These closure costs are in addition to the existing closure costs already approved.

This volume contains:

- Transmittal Letter
- Location Detail Plate
- C-147 Modification
- Updated Closure Cost
- Stamped Engineered As-Built Drawings

This package will be submitted to the OCD via the Online Portal. In compliance with 19.15-34-10 of the Rule, a copy of this package has been provided to the surface owner's



| Cascade Services, LLC | 3403-B E. County Road 44, Midland, TX 79705 |

representative. If you have any questions or need additional information, please feel free to contact me. Thank you for your consideration.

Sincerely,

Cascade Services LLC

A handwritten signature in black ink that reads "George Jennings". The signature is written in a cursive style.

George R. Jennings III

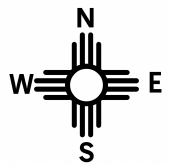
Senior Geologist

[gjennings@cascadeservicesllc.com](mailto:gjennings@cascadeservicesllc.com)

575-618-2103



ESRI Satellite



Scale 1:5,000



952 Echo Lane, Suite 130  
Houston, Texas 77024

Location detail. Rainbow contours represent the location of the Andrews Recycling Facility & Containments North pond.

Hydrosorce Logistics Waste Management, LLC  
Andrews Recycling Facility & Containments MODIFICATION

Plate 1

February 2026

State of New Mexico
Energy Minerals and Natural Resources
Department Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
https://www.emnrd.nm.gov/ocd/ocd-e-permitting/

Recycling Facility and/or Recycling Containment

Type of Facility: [X] Recycling Facility [X] Recycling Containment\*
Type of action: [ ] Permit [X] Registration [ ] Extension
[X] Modification [X] Other (explain)
[ ] Closure

Converting a previously constructed freshwater pond called the Andrews Recycling Facility & Containments North to a produced water pond and adding it to the Andrews Recycling Facility & Containments

\* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.

Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1. Operator: Hydrosorce Logistics Waste Management, LLC (For multiple operators attach page with information) OGRID #: 322820
Address: 600 N. Marienfeld, Suite 800, Midland, TX 79701
Facility or well name (include API# if associated with a well): Andrews Recycling Facility & Containments
OCD Permit Number: 1RF-535 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr O,J Section 19 Township 26S Range 35E County: Lea
Surface Owner: [ ] Federal [ ] State [X] Private [ ] Tribal Trust or Indian Allotment

2. [X] Recycling Facility:
Location of recycling facility (if applicable): Latitude 32.023457 Longitude -103.405565 NAD83
Proposed Use: [X] Drilling\* [X] Completion\* [X] Production\* [X] Plugging \*
\*The re-use of produced water may NOT be used until fresh water zones are cased and cemented
[ ] Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.
[X] Fluid Storage
[X] Above ground tanks [X] Recycling containment [ ] Activity permitted under 19.15.17 NMAC explain type
[ ] Activity permitted under 19.15.36 NMAC explain type: [ ] Other explain
[ ] For multiple or additional recycling containments, attach design and location information of each containment
[ ] Closure Report (required within 60 days of closure completion): [ ] Recycling Facility Closure Completion Date:

3. [X] Recycling Containment:
[ ] Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 32.023457 Longitude -103.405565 NAD83
[ ] For multiple or additional recycling containments, attach design and location information of each containment
[X] Lined [ ] Liner type: Thickness 60&40 mil [ ] LLDPE [X] HDPE [ ] PVC [ ] Other
[ ] String-Reinforced 59,893 bbl New North Containment
Liner Seams: [X] Welded [ ] Factory [ ] Other Volume: 450,238 N, 431,290 S bbl Dimensions: L x W x D
[ ] Recycling Containment Closure Completion Date: See Attached Engineer Drawings

4.

**Bonding:**

Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or operated by the owners of the containment.)

Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ 75,465 (work on these facilities cannot commence until bonding amounts are approved)

Attach closure cost estimate and documentation on how the closure cost was calculated.

5.

**Fencing:**

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify Game Fence per design

6.

**Signs:**

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

7.

**Variances:**

Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.

**Check the below box only if a variance is requested:**

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.

**If a Variance is requested, it must be approved prior to implementation.**

8.

**Siting Criteria for Recycling Containment**

*Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application. Potential examples of the siting attachment source material are provided below under each criteria.*

<b><u>General siting</u></b>	
<b><u>Ground water is less than 50 feet below the bottom of the Recycling Containment.</u></b> NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; written approval obtained from the municipality	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain. FEMA map	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; aerial photo; satellite image	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

9. **Recycling Facility and/or Containment Checklist:**  
 Instructions: Each of the following items must be attached to the application. Indicate, by a check mark in the box, that the documents are attached.

- Design Plan - based upon the appropriate requirements.
- Operating and Maintenance Plan - based upon the appropriate requirements.
- Closure Plan - based upon the appropriate requirements.
- Site Specific Groundwater Data -
- Siting Criteria Compliance Demonstrations -
- Certify that notice of the C-147 (only) has been sent to the surface owner(s)

10. **Operator Application Certification:**  
 I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.

Name (Print): Hunter Kedman Title: Manager  
 Signature: *[Handwritten Signature]* Date: 2/26/2026  
 e-mail address: hunter@hydrosonice.logistics.com Telephone: 432 238 3588

11. **OCD Representative Signature:** Victoria Venegas **Approval Date:** 03/30/2026

**Title:** Senior Environmental Scientist **OCD Permit Number:** 1RF-535 [fVV2505047831]

- OCD Conditions \_\_\_\_\_
- Additional OCD Conditions on Attachment \_\_\_\_\_



| Cascade Services, LLC | 3403-B E. County Road 44, Midland, TX 79705 |

## Closure Cost



Corporate Headquarters | 952 Echo Lane, Ste 130 | Houston, TX 77024  
Midland Headquarters | 3403-B E. County Road 44 | Midland, TX 79705

**Andrews Recycling Facility & Containments North In-Ground Containment Financial Assurance Cost Estimate**

Attached is the cost estimate for reclamation of the Andrews Recycling Facility & Containments North Recycling In-Ground containment. Please note that the cost presented below is *in addition* to the \$625,500 already approved for the closure of the original two ponds in the Andrews Recycling Facility & Containments. No preparation of sampling results and closure report costs are included here because they were previously approved in the original submission.

**Andrews Recycling Facility & Containments In-Ground Containment**

The contractor’s detailed estimate for closure of the in-ground containment immediately follows this outline of closure costs.

All work elements required by Rule 34:	\$75,465.00
<hr/>	
Total Closure Cost for the new <b>Andrews Recycling Facility &amp; Containments <u>North</u></b> :	\$75,465.00

**Cascade Services, LLC**

952 Echo Ln Ste 130  
Houston, TX 77024-2762  
www.cascadeservicesllc.com



**Estimate**

ADDRESS	SHIP TO	ESTIMATE	2288
kelvin Doggett	kelvin Doggett	DATE	02/27/2026
Hydrosorce Logistics Waste Management, LLC	Hydrosorce Logistics Waste Management, LLC		

CUSTOMER PROJECT NAME	PROJECT LOCATION COORDINATES
Andrew Closure	32.023324995, -103.40438281

DESCRIPTION	QTY	UNIT	RATE	AMOUNT
Remove and dispose of all four layers. Textile, 40 mil, net, and 60 mil in	280,000		0.15	42,000.00
Environmental soil sampling This will include digging 6 sample locations for each containment. One composite sample from 0-4 feet below surface and one discrete sample from each location at 4.25 feet Cost include trip, labor, materials, and laboratory testing	1		1,725.00	1,725.00
Environmental Soil testing Before earthwork can begin the soil must be tested for contamination in case of liner leakage. Cost include trip, labor, materials, and laboratory testing of 18 tests.	1		2,700.00	2,700.00
Broadcast seeding of pond area Seed will be a native mix for Lea County NM Includes purchase of seed mix and placement	1		3,000.00	3,000.00
This is pricing a package to reclaim the single 60k bbl pond cell Mobilize equipment to site. Dirt reclaim of pond consist of- Bury all material (Caliche, Gypsum, Sand, ect.) below ground level, backfill pond area with uncontaminated soil from pond walls. Pond area will be reclaimed to natural elevations and water flow patterns. All stockpiled strippings will be put down last to ensure ground has been completely returned to native design.	11,000		2.00	22,000.00

Fence removal and disposal Fence estimated at 1,010 ft This includes removal of all posts, braces, wire, fabric, gates, and hardware.	1,010	4.00	4,040.00
---	-------	------	----------

-----

Preferred payment method: ACH/Wire  
Email AR@cascadeservicesllc.com for ACH/Wire details.

SUBTOTAL 75,465.00

TAX 0.00

Remit Checks To:  
Cascade Services LLC  
PO Box 200954  
Dallas, TX 75320-0954

-----

TOTAL **\$75,465.00**

\*\*THIS ESTIMATE IS SUBJECT TO THE TERMS & CONDITIONS ATTACHED.

\*\*If pumping is needed due to weather conditions, a \$350 daily fee will be charged on final invoice.

\*\*Materials will be invoiced upon receipt of customer purchase order or job approval.

\*\*This estimate may not include tax and may be added on invoice unless customer provides a valid tax exemption document.

Questions? Email AR@Cascadeservicesllc.com

Accepted By

Accepted Date



| Cascade Services, LLC | 3403-B E. County Road 44, Midland, TX 79705 |

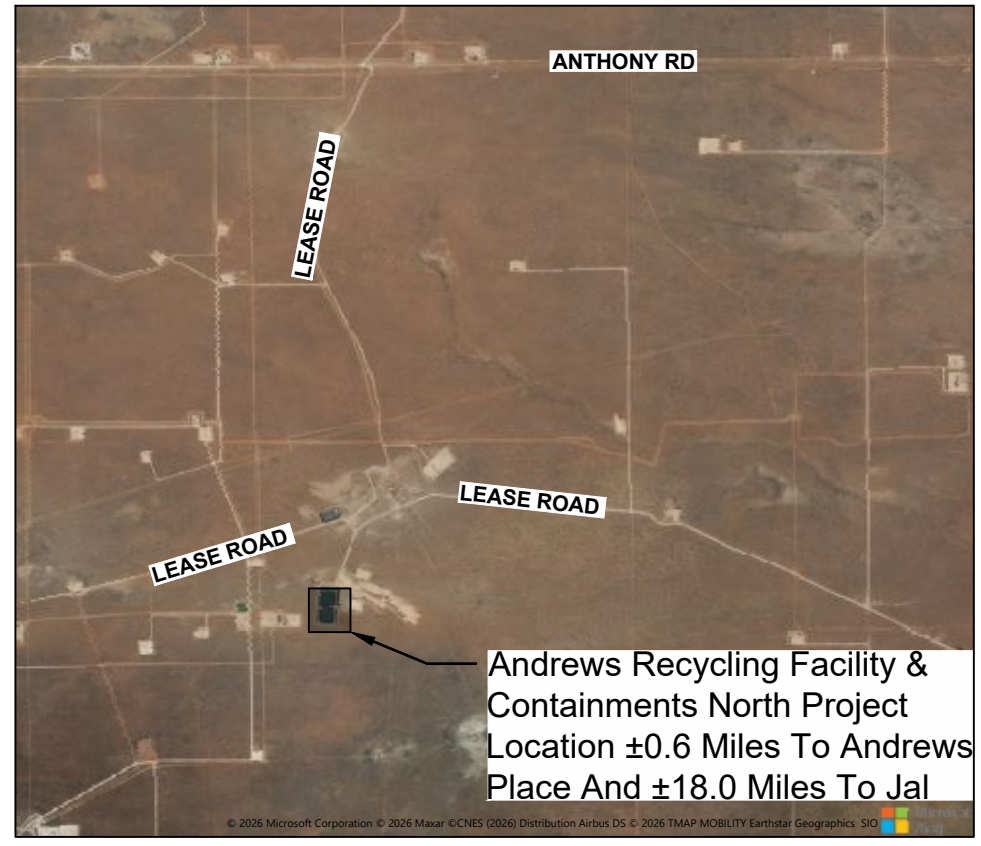
## Recycling Containment Design Drawings



# CIVIL PLANS CASCADE SERVICES

## ANDREWS RECYCLING FACILITY & CONTAINMENTS NORTH

SECTION 19, TOWNSHIP 26 SOUTH, RANGE 35 EAST  
N.M.P.M., LEA COUNTY, NEW MEXICO  
LAT 32.023457, LON -103.405565, NAD 83



VICINITY MAP  
N.T.S.

INDEX OF SHEETS		
SHEET	NAME	DESCRIPTION
1	C-100	COVER SHEET
2	SU-101	ASBUILT TOPOGRAPHIC SURVEY
3	C-101	GENERAL NOTES
4	CS-101	CIVIL SITE PLAN
5	CS-102	CONTAINMENT PROFILES A & B
6	CS-103	VOLUME QUANITITES
7	CS-501	LEAK DETECTION DETAILS
8	CS-502	LINER DETAILS
9	CS-503	FENCE DETAILS

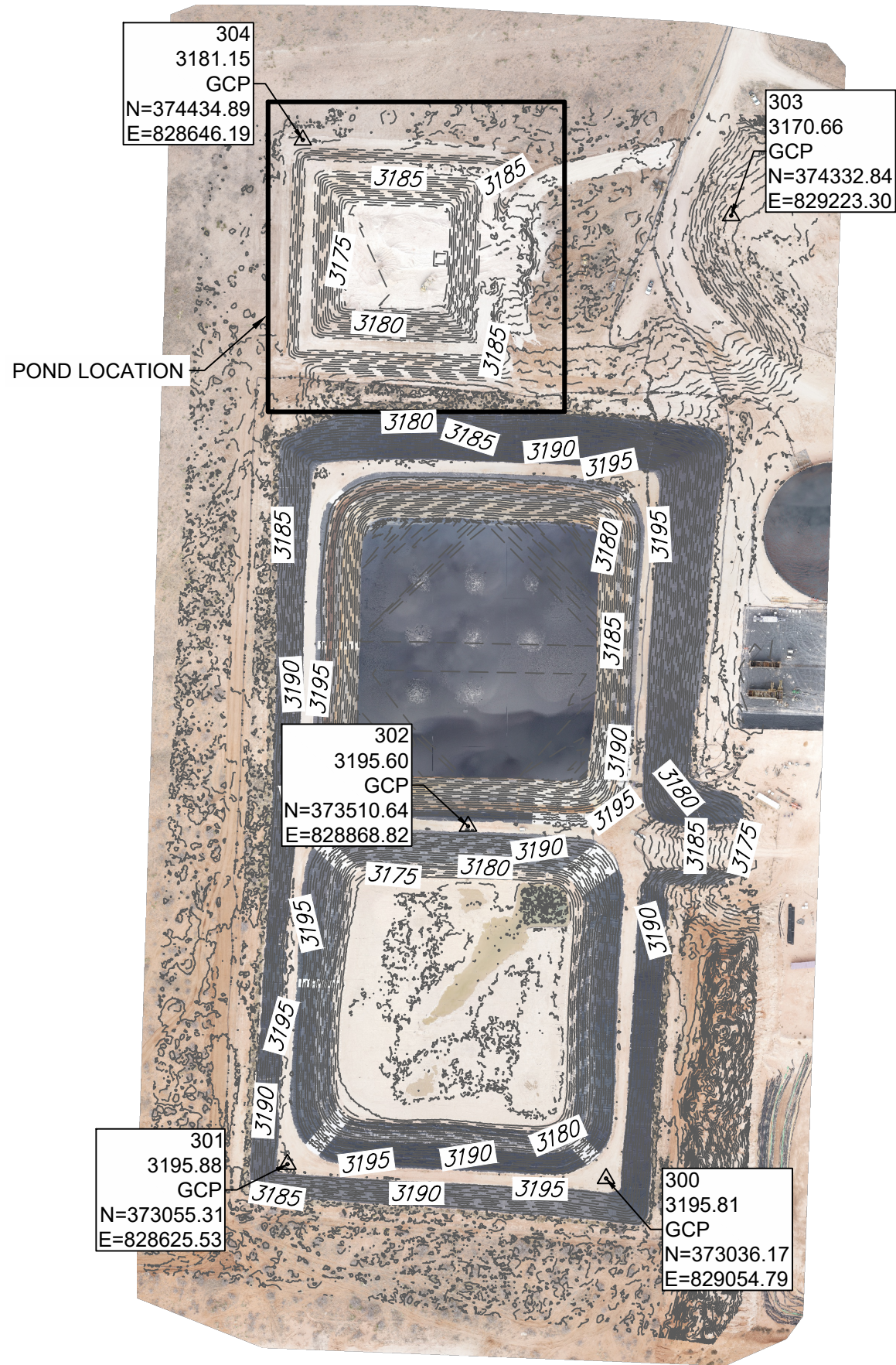


(505)-254-7310  
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



# TOPOGRAPHIC SURVEY

## of Andrews Recycling Facility & Containments North



**SURVEYOR NOTE**

THIS IS NOT A BOUNDARY SURVEY OR A RIGHT-OF-WAY SURVEY. APPARENT PROPERTY CORNERS, RIGHT-OF-WAY LINES, OR PROPERTY LINES AS SHOWN ARE DERIVED FROM RECORD SURVEY PLATS, RIGHT-OF-WAY MAPS, OR DEEDS REFERENCED HEREON AND ARE NOT GUARANTEED OR TO BE RELIED ON FOR THE ESTABLISHMENT OF PROPERTY LINES.

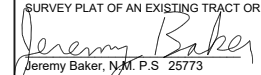
**BASIS OF BEARING**

BEARINGS SHOWN HEREON ARE FROM GPS/GNSS OBSERVATIONS AND CONFORM TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM OF 1983. TRUE NORTH CAN BE OBTAINED BY APPLYING A CONVERGENCE ANGLE OF 00°29'32.25" AT **GROUND CONTROL POINT #300**. DISTANCES SHOWN HEREON ARE IN GROUND AND WERE OBTAINED BY APPLYING A COMBINED GRID TO GROUND SCALE FACTOR OF **1.00024790541288** AT THE PREVIOUSLY NOTED POINT LOCATED AT **N 373036.17, E 829054.79**. THE VERTICAL DATUM IS BASED ON GEOID18 AND IT PROVIDES ORTHOMETRIC HEIGHTS CONSISTENT WITH THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

**TOPOGRAPHIC NOTE**

THE TOPOGRAPHY SHOWN HEREIN IS A COMBINATION OF UAV DATA AND CONVENTIONAL/GPS DATA. THE UAV DATA WAS GENERATED USING INDUSTRY STANDARD QUALITY CHECKS AND IS WITHIN THE INDUSTRY RECOGNIZED GROUND SAMPLING DISTANCE (GSD) STANDARD OF BELOW 2.5 CM (1 IN / 0.08 FT). THE ABSOLUTE ACCURACY LEVEL IN STANDARD UAV DATA IS EQUAL TO 3 X GSD (3 X 0.08 FT = 0.24 FT). UAV DATA WAS USED FOR MEASUREMENTS ON NATURAL GROUND AND SUPPLEMENTAL FEATURES.

I, JEREMY BAKER, NEW MEXICO PROFESSIONAL SURVEYOR NO. 25773, DO HEREBY CERTIFY THAT THIS TOPOGRAPHIC SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS A TOPOGRAPHIC SURVEY PLAT OF AN EXISTING TRACT OR TRACTS.

  
 Date: **02/26/2026**



7921 N World Dr.  
Hobbs, NM 88242-9032  
Squarerootservices.net  
575-231-7347

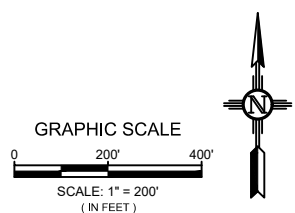
TYPE OF SURVEY:  
**ASBUILT TOPOGRAPHIC SURVEY**

PROJECT NAME:  
**ANDREWS RECYCLING FACILITY & CONTAINMENTS NORTH**

CLIENT:  
**CASCADE SERVICES**

PROJECT NUMBER:  
**26051**

PROJECT SURVEYOR:  
Jeremy Baker, PS  
DRAWN BY:  
C. JIMENEZ



**LEGEND**

	CONTROL POINT AS NOTED
	MAJOR CONTOUR (5FT)
	MINOR CONTOUR (1FT)

SHEET:  
2 of 9  
**SU - 101**

**GENERAL NOTES**

1. NEW MEXICO ADMINISTRATIVE CODE TITLE 19, CHAPTER 15, PART 34, DESIGN CRITERIA FOR RECYCLING CONTAINMENTS SHALL APPLY TO THIS PROJECT.
2. ALL BOUNDARY, TOPOGRAPHIC AND UTILITY INFORMATION SHOWN ARE BASED ON SURVEY INFORMATION FURNISHED BY TOPOGRAPHIC.
3. THE CONTRACTOR SHALL IDENTIFY AND LOCATE UTILITY LINES, MONITORING WELLS, SURVEY MONUMENTS, AND OTHER NEARBY STRUCTURES PRIOR TO PERFORMING WORK.
4. COORDINATE INFORMATION IS BASED ON STATE PLANE COORDINATES, NEW MEXICO EAST, NAD 83.
5. THE CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION AND CONTACT THE ENGINEER IN WRITING.
6. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN BEST MANAGEMENT PRACTICES (BMPS) TO MINIMIZE EROSION AND CONTROL SEDIMENT TO PROTECT SURFACE WATER QUALITY DURING STORM EVENTS.

**EARTHWORK NOTES**

1. THE CONTRACTOR SHALL USE WATER FOR COMPACTION AT ALL TIMES. THE CONTRACTOR SHALL ENSURE THEIR BID INCLUDES CONSTRUCTION WATER. NO EARTHWORK OPERATIONS SHALL TAKE PLACE IF CONSTRUCTION WATER IS NOT AVAILABLE ONSITE.
2. THE CONTRACTOR SHALL BUILD THE LEVEES USING COMPACTED LAYERS. UNCONTROLLED AND INCONSISTENT PUSHING AND PILING OF MATERIAL FOR LEVEE CONSTRUCTION IS NOT ACCEPTABLE. THE CONTRACTOR SHALL DEVELOP A SUCCESSFUL COMPACTION PATTERN EARLY IN THE PROCESS, VERIFIED THROUGH NUCLEAR DENSITY OR SAND CONE TESTING, AND SHALL MAINTAIN CONSISTENCY IN THE COMPACTIVE EFFORT AS LONG AS THE MATERIALS ENCOUNTERED REMAINS CONSISTENT. IF ONSITE SOILS ENCOUNTERED CHANGE, THE CONTRACTOR SHALL DEVELOP A NEW COMPACTION PATTERN.
3. FILL FOR LEVEES SHALL BE PLACED AND COMPACTED IN HORIZONTAL LIFTS WITH MAXIMUM LOOSE LIFT THICKNESS OF 10 INCHES, OR AS DIRECTED BY ENGINEER. CONSTRUCT EACH LAYER CONTINUOUSLY AND APPROXIMATELY HORIZONTAL FOR THE WIDTH AND LENGTH OF THE LEVEE. FILL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY DETERMINED BY THE ASTM D698 AND AT MOISTURE CONTENT WITHIN +2% TO -2% OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY A STANDARD PROCTOR SOILS TEST ON SAMPLES FROM THE SOURCE AREA.
4. FILL SHALL NOT BE PLACED AND COMPACTED WHEN THE MATERIALS ARE TOO WET TO PROPERLY COMPACT. MATERIAL WHICH IS TOO WET SHALL BE SPREAD ON THE FILL AREA AND PERMITTED TO DRY, ASSISTED BY HARROWING IF NECESSARY, UNTIL THE MOISTURE CONTENT IS REDUCED TO ALLOWABLE LIMITS. IF THE ENGINEER DETERMINED THAT ADDED MOISTURE IS REQUIRED, WATER SHALL BE APPLIED UNIFORMLY OVER THE AREA TO BE TREATED, AND GIVE COMPLETE AND ACCURATE CONTROL OF THE AMOUNT OF WATER TO BE USED. IF TOO MUCH WATER IS ADDED, THAT AREA SHALL BE PERMITTED TO DRY BEFORE COMPACTION IS CONTINUED.
5. PERFORM ONE NUCLEAR DENSITY GAGE TEST PER 2500 CY MINIMUM OR AS DIRECTED BY THE ENGINEER.
6. EARTHWORK CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF THE FINISHED COMPACTED POND BOTTOM AND SIDE SLOPES BEFORE HDPE LINER INSTALLATION, REMOVING ALL DEBRIS, SHARP OBJECTS AND GRAVEL LARGER THAN 3/4 INCH.
7. EARTHWORK CONTRACTOR SHALL ROLL SURFACE WITH A SMOOTH ROLLER TO ELIMINATE RUTS.

**LINER NOTES**

1. LINER CONTRACTOR SHALL INSPECT GRADED SURFACE FOR DEBRIS, ROCKS OR OTHER MATERIAL THAT MAY DAMAGE THE LINER AND COORDINATE WITH OWNER IF ADDITIONAL SUBGRADE RESURFACING IS NEEDED PRIOR TO PERFORMING WORK.
2. LINER CONTRACTOR TO PROVIDE SUBMITTAL OF LINER PANEL LAYOUT.
3. LINER CONTRACTOR TO SIGN SUBGRADE ACCEPTANCE FORM (PROVIDED BY OWNER REPRESENTATIVE) DAILY PRIOR TO INSTALLATION.
4. LINER TO BE INSTALLED PER GRI SPECIFICATIONS, GUIDES AND PRACTICES.
5. CONTRACTOR SHALL PLACE SANDBAGS ON LINER DURING INSTALLATION AS REQUIRED TO PREVENT WIND UPLIFT UNTIL POND IS FILLED TO A DEPTH OF 3 FEET.
6. CONTRACTOR SHALL USE BLACK 60 MIL HDPE SMOOTH GEOMEMBRANE AS THE PRIMARY LINER AND BLACK 40 MIL HDPE SMOOTH GEOMEMBRANE AS THE SECONDARY LINER.
7. A 3' DIAMETER MINIMUM PIECE OF 40MIL LINER SHALL BE EXTRUDED WELDED WHERE THE PIE SHAPED CORNER SECTIONS MEET FOR SEAM REINFORCEMENT.
8. INSTALL A FULL DOUBLE WIDTH SECTION OF BLACK OR WHITE 60 MIL TEXTURED HDPE GEOMEMBRANE RUB SHEET. EXTRUDE WELD TO LINER. WELDS SHALL BE 2" LONG AND SPACED EVERY 12" ALONG BOTH SIDES OF THE SHEET. DO NOT WELD END EDGES. SECTION SHALL EXTEND FROM SUMP AND INSTALLED INTO LINER ANCHOR TRENCH AS SHOWN.
9. LINER SHALL BE PROTECTED WITH A 8 OZ. NONWOVEN GEOTEXTILE IF ROCK OR OTHER ANGULAR MATERIALS WITH A DIMENSION GREATER THAN 3/4 INCH ARE PRESENT.
10. SUMPS SHALL BE BACKFILLED WITH NON-ANGULAR MAXIMUM 3/8 INCH SIZED PEA GRAVEL.
11. ALL SEAMS MUST BE WELDED WITH A 6" MINIMUM OVERLAP.
12. CONTRACTOR SHALL NON-DESTRUCTIVELY TEST ALL SEAMS THEIR FULL LENGTH USING AN AIR PRESSURE OR VACUUM TEST, THE PURPOSE OF THIS TEST IS TO CHECK THE CONTINUITY OF THE SEAM.
13. FOR AIR PRESSURE TESTING (ASTM 5820), THE FOLLOWING PROCEDURES ARE APPLICABLE TO THE SEAMS WELD WITH DOUBLE SEAM FUSION WELDER.
  - a. THE EQUIPMENT USED SHALL CONSIST OF AN AIR TANK OR PUMP CAPABLE OF PRODUCING A MINIMUM 35 PSI AND A SHARP NEEDLE WITH A PRESSURE GAUGE ATTACHED TO INSERT INTO THE AIR CHANNEL.
  - b. SEAL BOTH ENDS OF THE SEAM BY HEATING AND SQUEEZING THEM TOGETHER. INSERT THE NEEDLE WITH THE GAUGE INTO THE AIR CHANNEL. PRESSURIZE THE AIR CHANNEL TO A MINIMUM OF 35 PSI. NOTE TIME STARTS AND WAIT A MINIMUM OF 5 MINUTES TO CHECK. IF PRESSURE AFTER 5 MINUTES HAD DROPPED LESS THAN 2 PSI THE TEST IS SUCCESSFUL (THICKNESS OF MATERIAL MAY CAUSE VARIANCE).
  - c. CUT OPPOSITE SEAM END AND LISTEN FOR PRESSURE RELEASE TO VERIFY FULL SEAM HAS BEEN TESTED.
  - d. IF THE TEST FAILS, FOLLOW THESE PROCEDURES.
    - i. WHILE CHANNEL IS UNDER PRESSURE WALK THE LENGTH OF THE SEAM LISTENING FOR A LEAK.
    - ii. WHILE CHANNEL IS UNDER PRESSURE APPLY A SOAPY SOLUTION TO THE SEAM EDGE AND LOOK FOR BUBBLES FORMED BY AIR ESCAPING.
    - iii. RE-TEST THE SEAM IN SMALLER INCREMENTS UNTIL THE LEAK IS FOUND.
  - e. ONCE LEAK IS FOUND USING ONE OF THE PROCEDURES ABOVE, CUT OUT THE AREA AND RETEST THE PORTIONS OF THE PORTIONS OF THE SEAMS BETWEEN THE LEAK AREAS PER 6A AND 6B ABOVE. CONTINUE THIS PROCEDURE UNTIL ALL SECTIONS OF THE SEAM PASS THE PRESSURE TEST.
  - f. REPAIR THE LEAK WITH A PATCH AND VACUUM TEST.
14. ALL NON-DESTRUCTIVE TESTS WILL BE NOTED IN THE NON-DESTRUCTIVE LOGS.
15. LINER GAS VENTS SHALL BE SPACED ALONG THE INSIDE SLOPE AT APPROXIMATELY 100 FEET ON CENTER OR MINIMUM 2 VENTS PER SIDE.
16. WHEN ANY PIPING EQUIPMENT, INLET, OR OUTLET IS IN DIRECT CONTACT WITH THE LINER, AN APRON CONSISTING OF 60 MIL HDPE MATERIAL SHALL BE INSTALLED BENEATH THE EQUIPMENT OR STRUCTURE TO PROTECT THE PRIMARY LINER.
17. LAY BOTH LINERS IN ANCHOR TRENCH. BACKFILL ANCHOR TRENCH IN 2 LIFTS AND COMPACT.

**SUGGESTED CONSTRUCTION SEQUENCE**

1. CLEAR EXISTING VEGETATION.
2. STRIP AND STOCKPILE TOPSOIL AT THE LOCATION DESIGNATED ON THESE PLANS.
3. PERFORM EARTHWORK OPERATIONS:
  - 3.1. CONSTRUCT STORMWATER DIVERSION CHANNEL.
  - 3.2. PERFORM RIPPING/EXCAVATING OPERATIONS.
  - 3.3. REPLACE EXCAVATED MATERIAL IN COMPACTED LAYERS ON THE LEVEE/PAD IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS.
  - 3.4. FINISH SLOPES USING A SMOOTH ROLLER.
  - 3.5. DIG ANCHOR TRENCH.
4. INSTALL NEW GAME FENCE AND GATES.
5. INSTALL GEOMEMBRANES:
  - 5.1. INSTALL GEOTEXTILE AS NEEDED, SECONDARY LINER, GEONET, LEAK DETECTION SYSTEM AND PRIMARY LINER.
  - 5.2. INSTALL RUB SHEETS AND WATER LEVEL GAGE/LADDER.
  - 5.3. BACKFILL AND COMPACT ANCHOR TRENCH.



7921 N. World Dr.  
 Hobbs, NM 88242  
 Squarerootservices.net  
 575-231-7347

ENGINEERING SHEET:

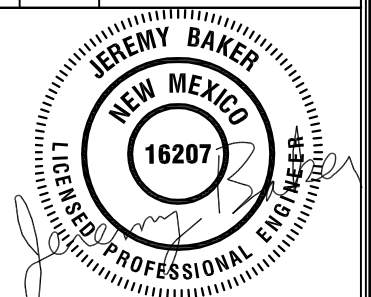
GENERAL NOTES  
 OF  
 PROJECT NAME:  
 ANDREWS RECYCLING FACILITY & CONTAINMENTS NORTH  
 FOR  
 CLIENT:  
 CASCADE SERVICES

PROJECT NUMBER:  
 26051

PROJECT ENGINEER:  
 JEREMY BAKER, PE

DRAWN BY:  
 C. JIMENEZ

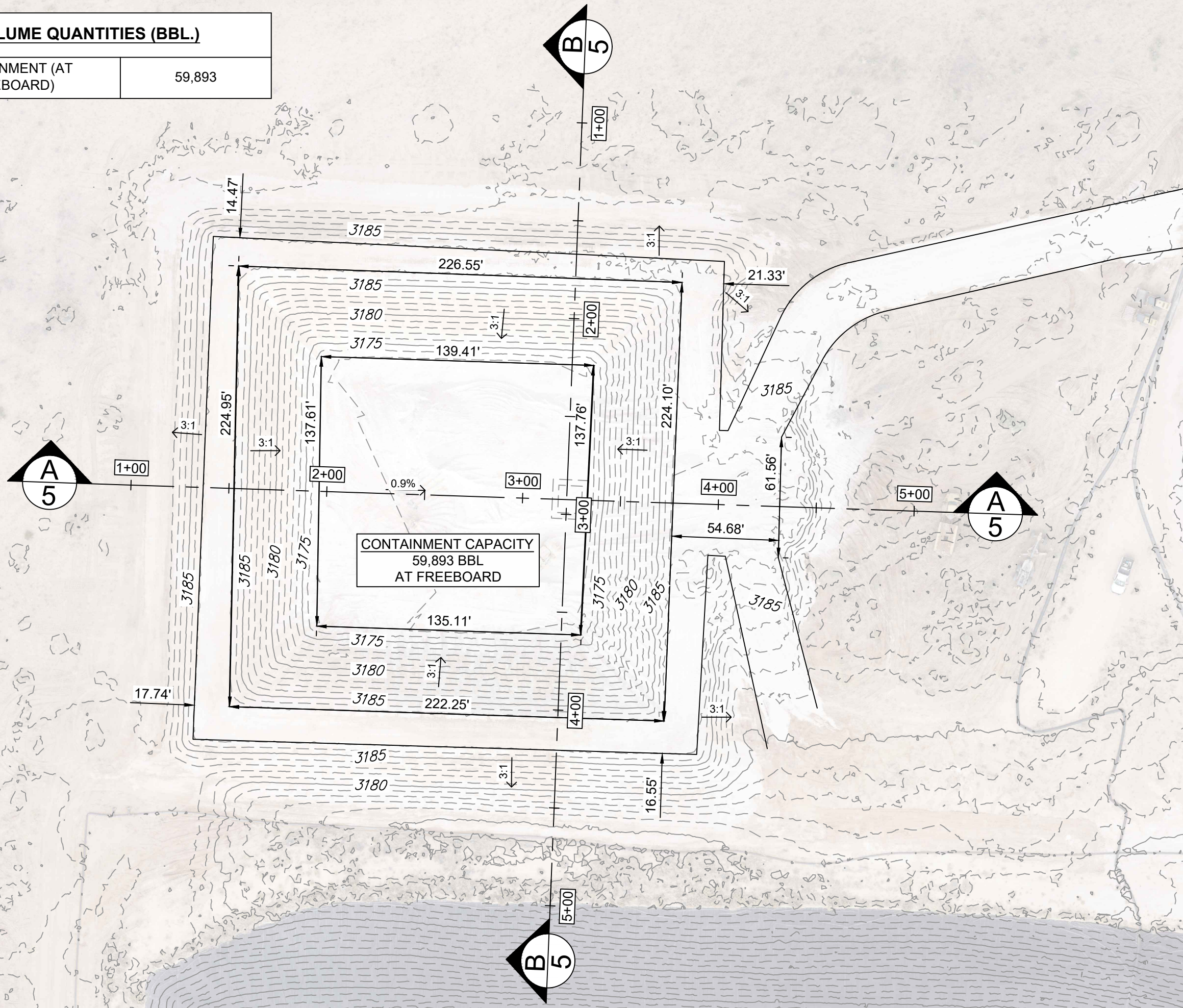
REVISIONS	
No.	DESCRIPTION



02/26/2026  
 SHEET:  
 3 of 9  
 C-101

**VOLUME QUANTITIES (BBL.)**

CONTAINMENT (AT FREEBOARD)	59,893
----------------------------	--------



Engineering | Surveying  
Materials Testing

7921 N. World Dr.  
Hobbs, NM 88242  
Squarerootservices.net  
575-231-7347

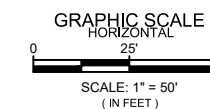
ENGINEERING SHEET:

CIVIL SITE PLAN  
OF  
PROJECT NAME:  
ANDREWS RECYCLING FACILITY &  
CONTAINMENTS NORTH  
FOR  
CLIENT:  
CASCADE SERVICES

PROJECT NUMBER:  
26051

PROJECT ENGINEER:  
JEREMY BAKER, PE

DRAWN BY:  
C. JIMENEZ



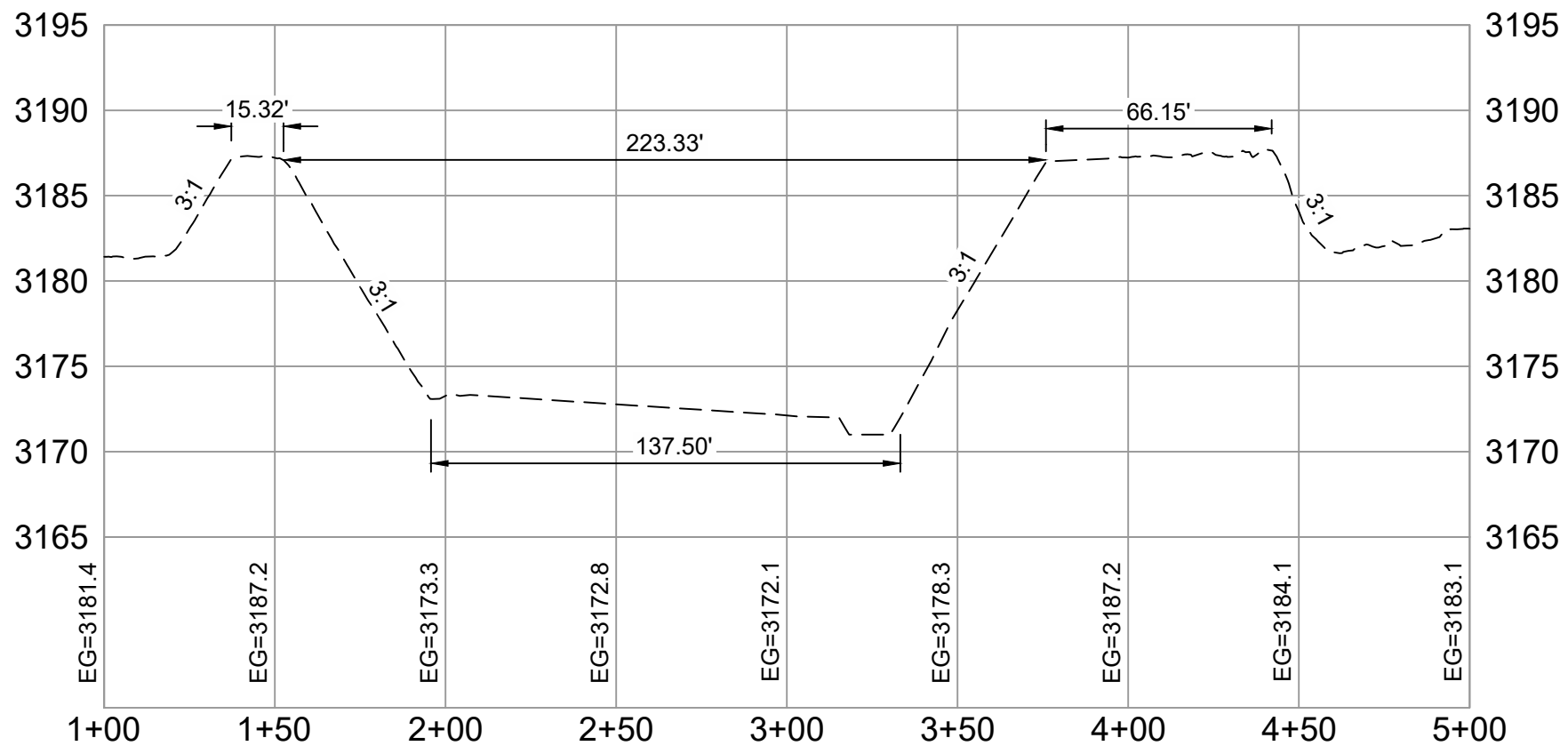
REVISIONS

No.	DATE	DESCRIPTION

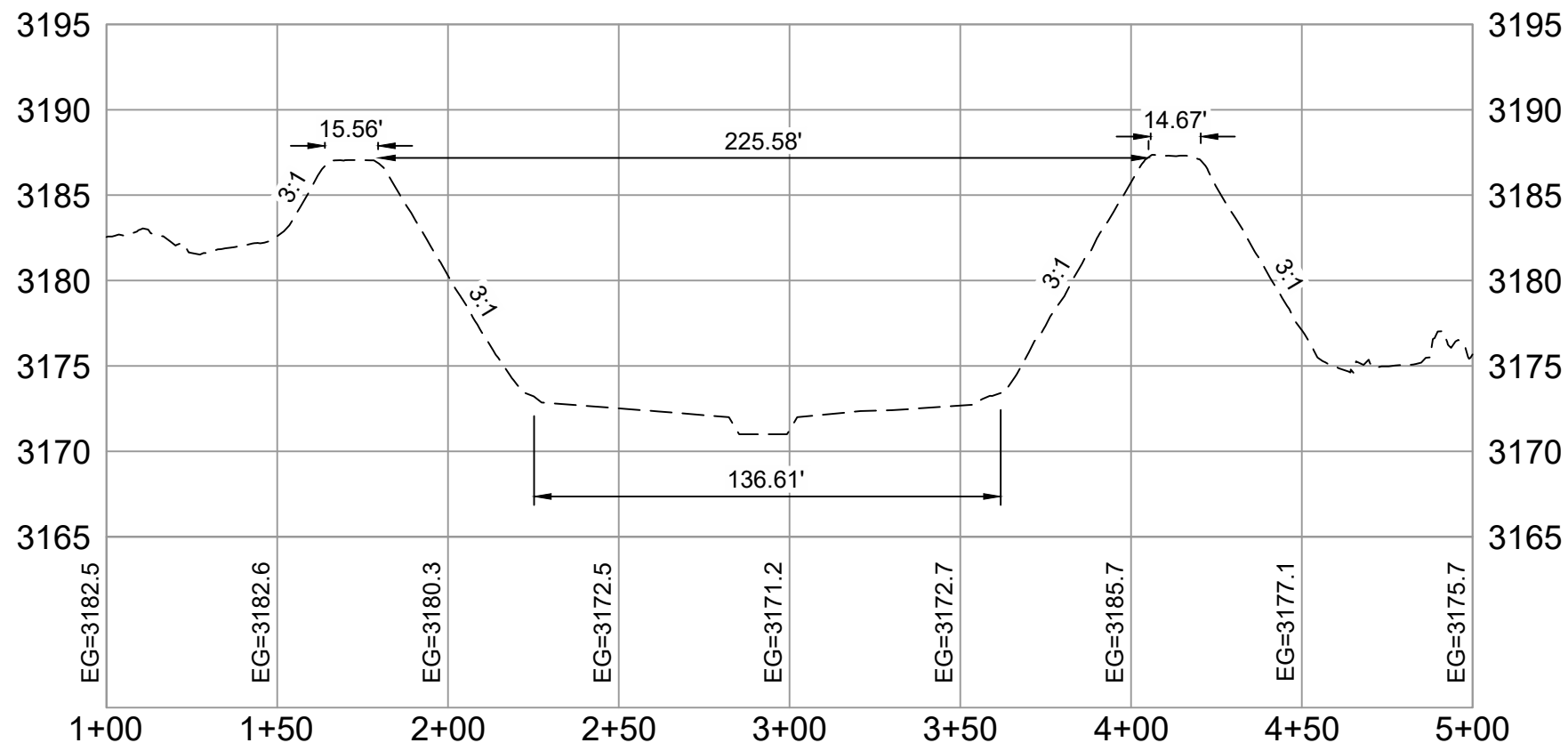


02/26/2026  
SHEET:  
4 of 9  
CS-101

WEST TO EAST PROFILE (A)



NORTH TO SOUTH PROFILE (A)



Engineering | Surveying  
Materials Testing

7921 N. World Dr.  
Hobbs, NM 88242  
Squarerootservices.net  
575-231-7347

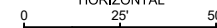
ENGINEERING SHEET:  
CONTAINMENT PROFILES A & B  
OF  
PROJECT NAME:  
ANDREWS RECYCLING FACILITY & CONTAINMENTS NORTH  
FOR  
CLIENT:  
CASCADE SERVICES

PROJECT NUMBER:  
26051

PROJECT ENGINEER:  
JEREMY BAKER, PE

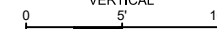
DRAWN BY:  
C. JIMENEZ

GRAPHIC SCALE HORIZONTAL



SCALE: 1" = 50' (IN FEET)

GRAPHIC SCALE VERTICAL



SCALE: 1" = 10' (IN FEET)

REVISIONS

No.	DATE	DESCRIPTION



02/26/2026

SHEET:  
5 of 9  
CS-102

ENGINEERING  
SHEET:  
VOLUME QUANTITIES  
OF  
PROJECT NAME:  
ANDREWS RECYCLING FACILITY  
& CONTAINMENTS NORTH  
FOR  
CLIENT:  
CASCADE SERVICES

PROJECT NUMBER:  
26051

PROJECT ENGINEER:  
JEREMY BAKER, PE  
DRAWN BY:  
C. JIMENEZ

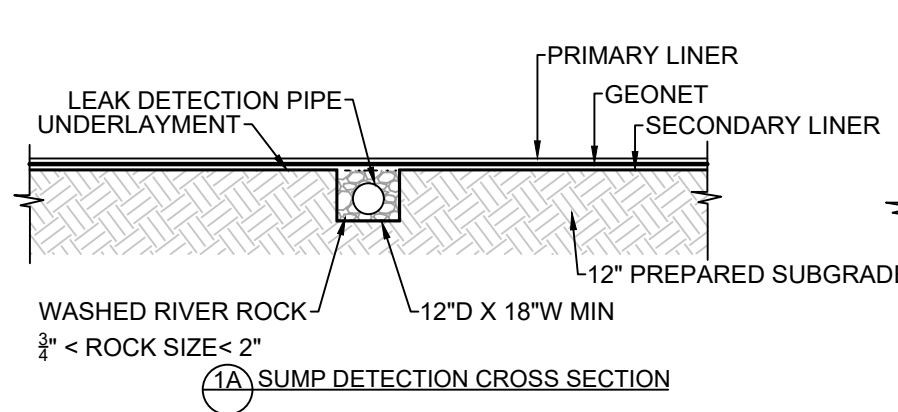
### CONTAINMENT VOLUME

ELEVATION (FT)	CONTAINMENT DEPTH (FT)	REMAINING STORAGE (FT)	REMAINING STORAGE VOL (FT3)	REMAINING STORAGE VOL (GAL)	REMAINING STORAGE VOL (BBL)	PERCENT OF TOTAL VOL (%)	VOL IN CONTAINMENT (FT3)	VOL IN CONTAINMENT (GAL)	VOL IN CONTAINMENT (BBL)	VOL IN CONTAINMENT (AC-FT)	PERCENT OF TOTAL VOL (%)	
3,187.00	0	16	0	-	-	0%	473,875	3,545,062	84,395	10.88	100%	
3,186.00	1	15	48,447	362,431	8,628	10%	425,428	3,182,630	75,766	9.77	90%	FREEBOARD
3,185.00	2	14	94,274	705,264	16,790	20%	379,601	2,839,798	67,605	8.71	80%	
3,184.00	3	13	137,579	1,029,227	24,502	29%	336,297	2,515,835	59,893	7.72	71%	MAX VOLUME
3,183.00	4	12	178,416	1,334,732	31,775	38%	295,459	2,210,330	52,620	6.78	62%	
3,182.00	5	11	216,869	1,622,396	38,623	46%	257,007	1,922,666	45,771	5.90	54%	
3,181.00	6	10	252,985	1,892,578	45,055	53%	220,891	1,652,484	39,339	5.07	47%	
3,180.00	7	9	286,865	2,146,035	51,089	61%	187,011	1,399,027	33,306	4.29	39%	STORAGE
3,179.00	8	8	318,605	2,383,481	56,742	67%	155,271	1,161,581	27,653	3.56	33%	VOLUME
3,178.00	9	7	348,235	2,605,150	62,019	73%	125,640	939,912	22,376	2.88	27%	
3,177.00	10	6	375,840	2,811,659	66,935	79%	98,035	733,403	17,460	2.25	21%	
3,176.00	11	5	401,505	3,003,656	71,506	85%	72,371	541,406	12,889	1.66	15%	
3,175.00	12	4	425,306	3,181,715	75,745	90%	48,569	363,346	8,650	1.11	10%	
3,174.00	13	3	447,318	3,346,383	79,665	94%	26,558	198,678	4,730	0.61	6%	FLOOR
3,173.00	14	2	466,343	3,488,713	83,053	98%	7,532	56,348	1,341	0.17	2%	VOLUME
3,172.00	15	1	473,617	3,543,131	84,349	100%	258	1,931	46	0.01	0%	
3,171.00	16	0	473,875	3,545,062	84,395	100%	0	0	0	0.00	0%	SUMP VOLUME

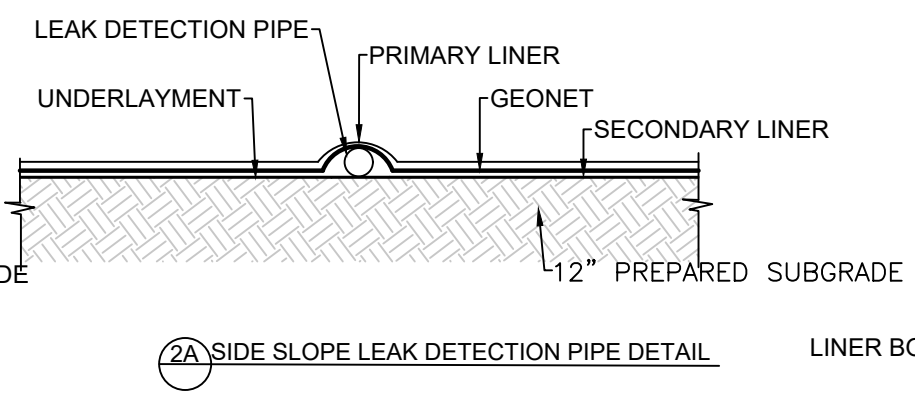
REVISIONS		
No.	DATE	DESCRIPTION



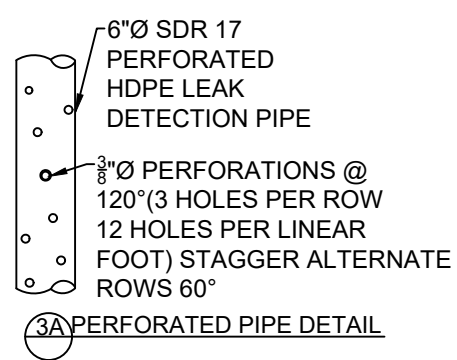
02/26/2026  
SHEET:  
6 of 9  
CS-103



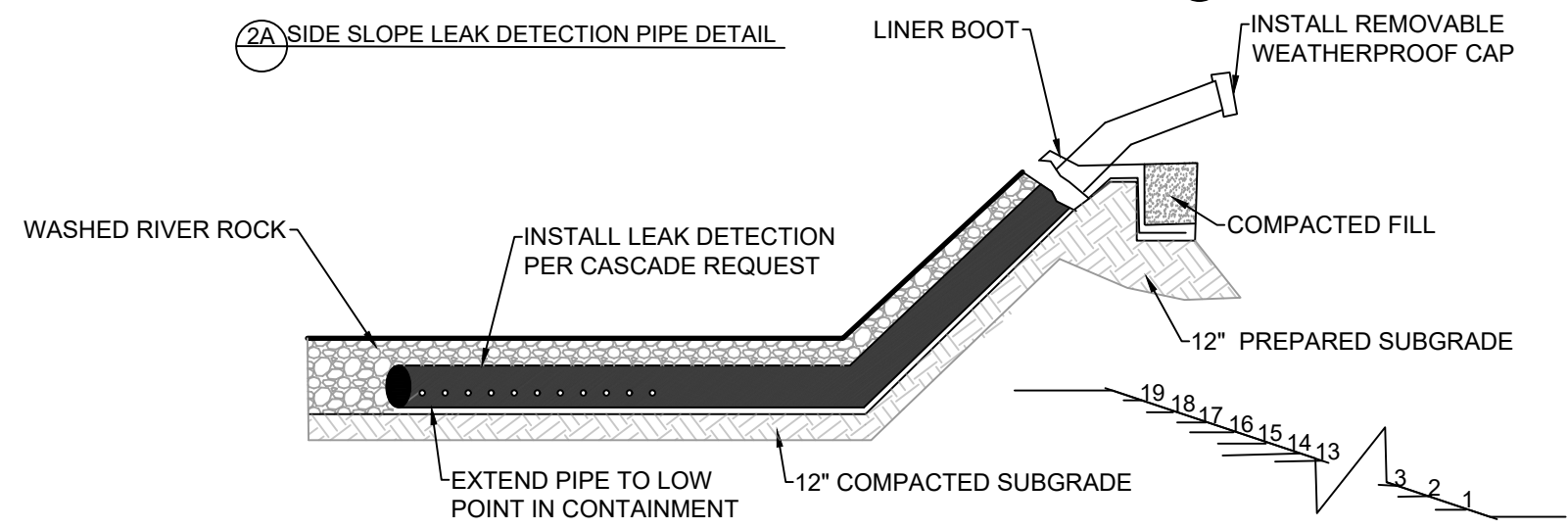
1A SUMP DETECTION CROSS SECTION



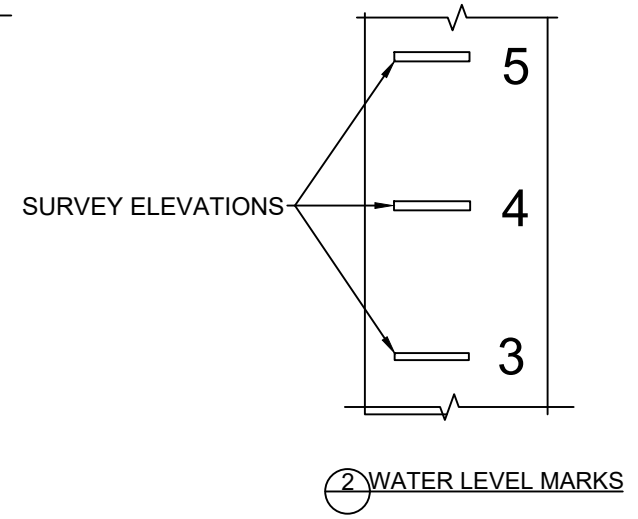
2A SIDE SLOPE LEAK DETECTION PIPE DETAIL



3A PERFORATED PIPE DETAIL



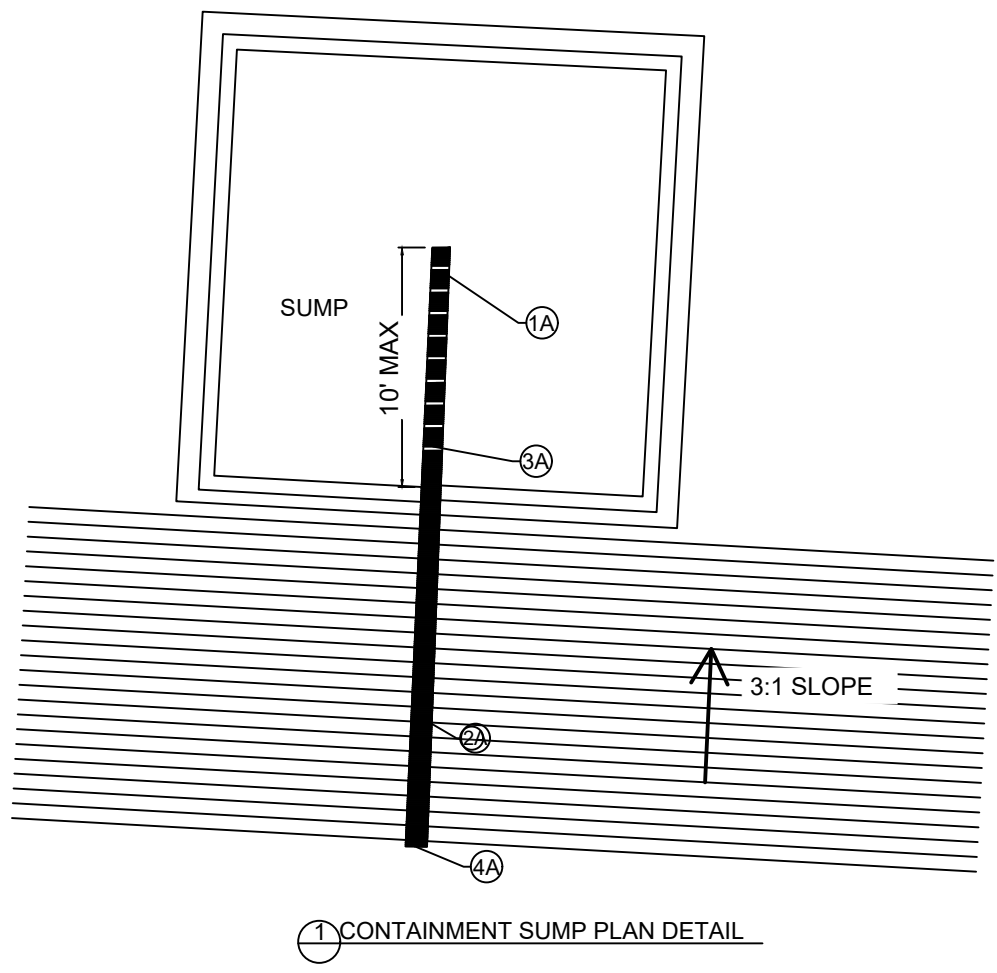
4A LEAK DETECTION/SAMPLING SYSTEM PROFILE



2 WATER LEVEL MARKS

- NOTES:
1. LEAK DETECTION SYSTEM TO BE INSTALLED BY OWNER.
  2. PERFORATED PIPE TO BE ALONG THE BOTTOM OF THE CONTAINMENT. SOLID PIPE ON THE SIDE SLOPE.
  3. CONSTRUCT COMPACTED SUBGRADE TO 95% STANDARD PROCTOR AS PER ASTM D-698
  4. EXTEND 60 MIL RUB SHEET 1.0-FT PAST TOP OF SHOULDER OF SUMP.
  5. WASHED RIVER ROCK SHALL BE 3/4\"/>

- NOTE:
1. LEVEL MARKS TO BE LOCATED BY SURVEYOR
  2. MARKS TO BE MADE BY AN EXTRUSION WELDER USING BLACK FILAMENT (OR WHITE FILAMENT ON BLACK LINER)
  3. MARKS WILL BE DETERMINE ON THE FIELD BY THE OWNER AND CONTINUE TO THE TOP OF THE BERM.
  4. REFERENCE PIT CAPACITY TABLES FOR ACCURATE ELEVATIONS.



1 CONTAINMENT SUMP PLAN DETAIL

PROPOSED PIT REFERENCE TABLE	
DETAIL	DESCRIPTION
PRIMARY LINER	60 MIL HDPE LINER
LEAK DETECTION	200 MIL GEONET
SECONDARY LINER	40 MIL HDPE LINER
UNDERLAYMENT	COMPACTED SUBGRADE/10 OZ GEOTEXTILE
SETTLING CONTAINMENT	
BOTTOM OF POND	3,171.00
BERM (ROAD CREST)	3,187.00
LEAK DETECTION PIPING	6-IN DR11 X PERFORATED HEPE PIPE LEAK DETECTION PIPE



7921 N. World Dr.  
Hobbs, NM 88242  
Squarerootservices.net  
575-231-7347

ENGINEERING SHEET:  
LEAK DETECTION DETAILS  
OF  
PROJECT NAME:  
ANDREWS RECYCLING FACILITY & CONTAINMENTS NORTH  
FOR  
CLIENT:  
CASCADE SERVICES

PROJECT NUMBER:  
26051

PROJECT ENGINEER:  
JEREMY BAKER, PE  
DRAWN BY:  
C. JIMENEZ

REVISIONS		
No.	DATE	DESCRIPTION



02/26/2026  
SHEET:  
7 of 9  
CS-501

ENGINEERING  
SHEET:

LINER DETAILS  
OF  
PROJECT NAME:  
ANDREWS RECYCLING FACILITY &  
CONTAINMENTS NORTH  
FOR  
CLIENT:  
CASCADE SERVICES

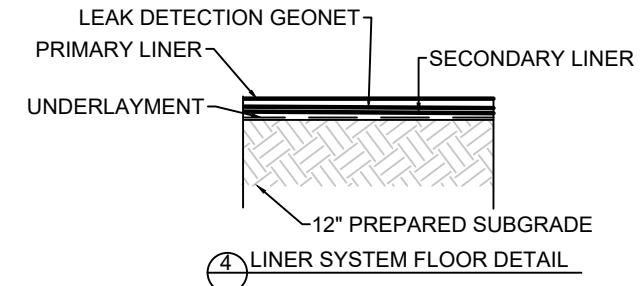
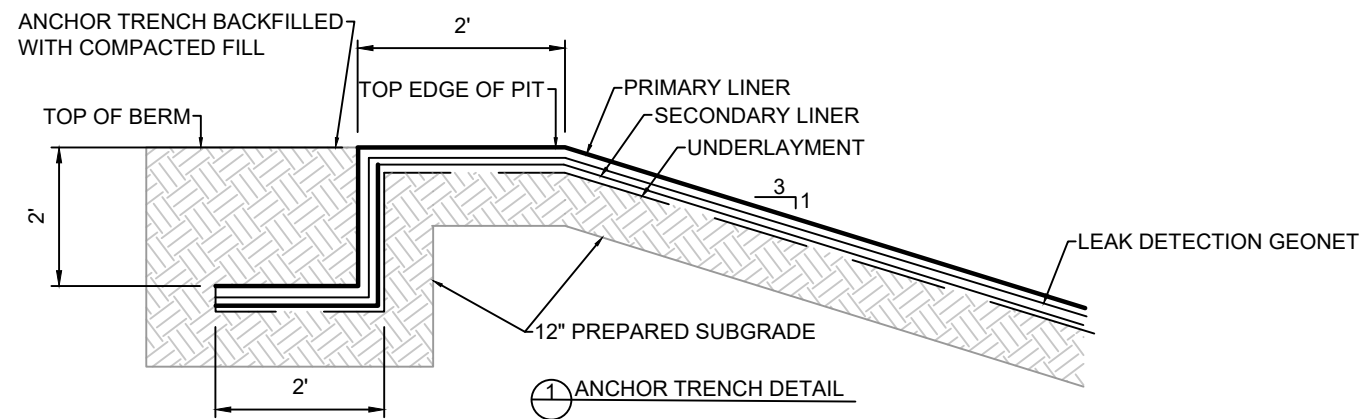
PROJECT NUMBER:  
26051

PROJECT ENGINEER:  
JEREMY BAKER, PE  
DRAWN BY:  
C. JIMENEZ

REVISIONS		
No.	DATE	DESCRIPTION

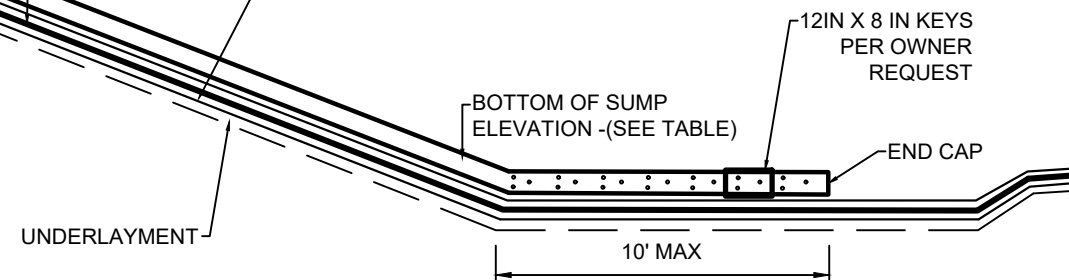
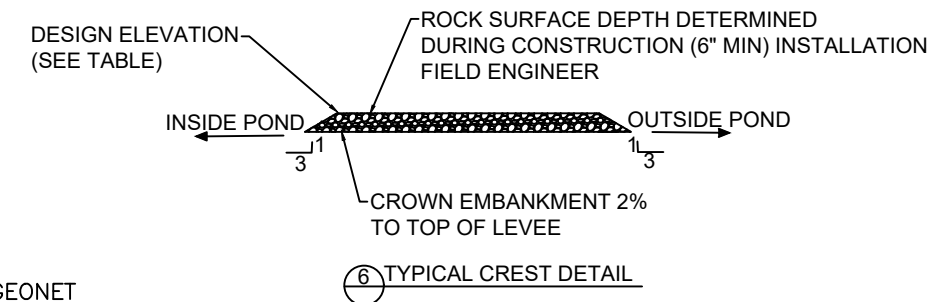
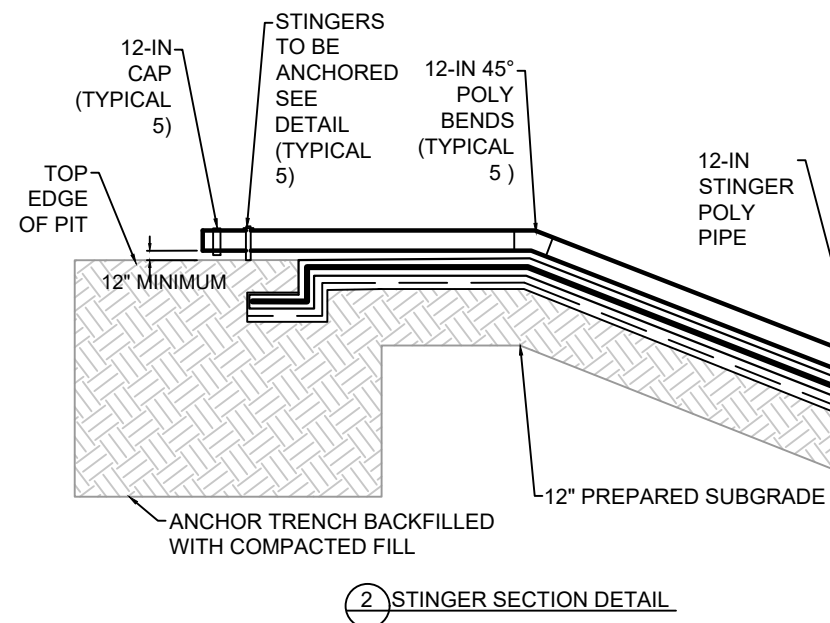
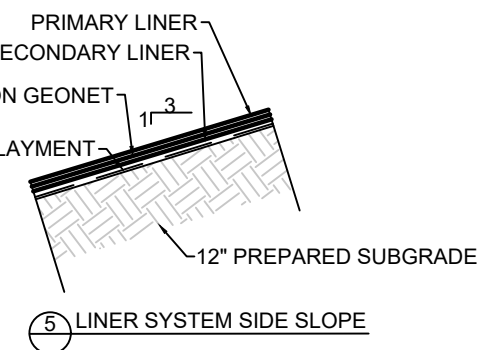
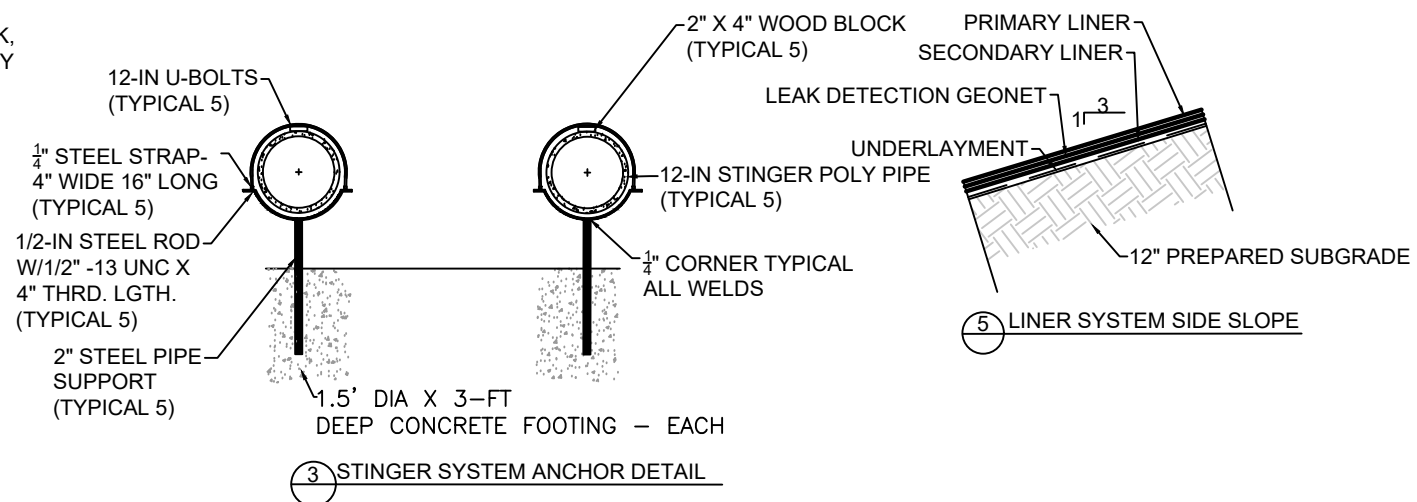


02/26/2026  
SHEET:  
8 of 9  
CS-502



GENERAL NOTES:

1. PREPARED SUBGRADE MEANS COMPACTED SMOOTH SUBGRADE FREE OF ROCK, ROOTS, WOOD DEBRIS, CONCRETE RUBBLE AND ANY SHARP OBJECTS THAT MAY PUNCTURE THE HDPE LINER, A MINIMUM COMPACTED DEPTH OF 12".
2. ALL INTERIOR SLOPES AND TOP OF BERMS TO BE SMOOTH DRUM ROLLED
3. ALL EMBANKMENT SLOPES SHALL HAVE A SLOPE (H:V RATIO) OF 3:1.
4. COMPACTED EARTH EMBANKMENTS TO BE CONSTRUCTED WITH 12 INCH (MAXIMUM LOOSE LIFTS, COMPACTED TO 95% STANDARD PROCTOR DENSITY)
5. PERFORM GEOTECHNICAL ANALYSIS ON EXISTING SOIL TO CONFIRM SOIL IS SUITABLE FOR USE IN THE LEVEE.
6. LINER SPECIFICATIONS PROVIDED ON SHEET CS - 501



7921 N. World Dr.  
Hobbs, NM 88242  
Squarerootservices.net  
575-231-7347

ENGINEERING  
SHEET:  
FENCE DETAILS  
OF  
PROJECT NAME:  
ANDREWS RECYCLING FACILITY &  
CONTAINMENTS NORTH  
FOR  
CLIENT:  
CASCADE SERVICES

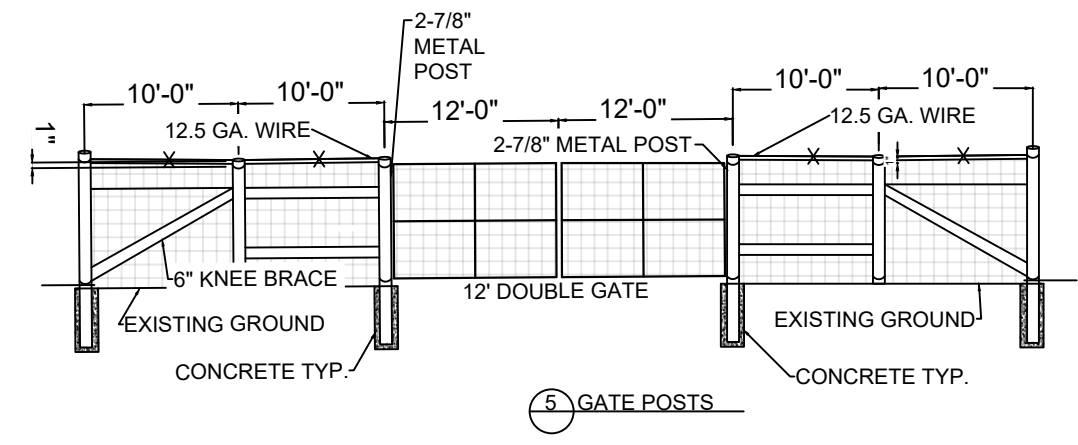
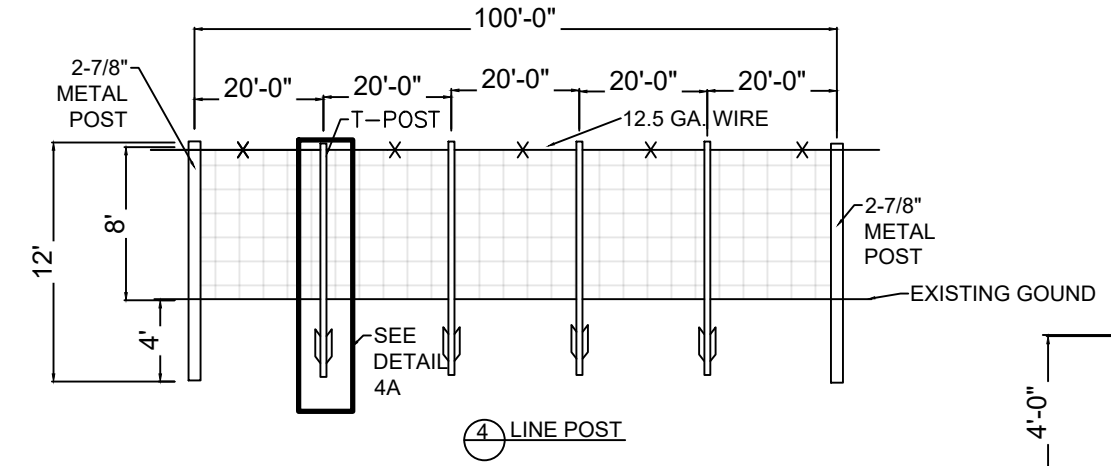
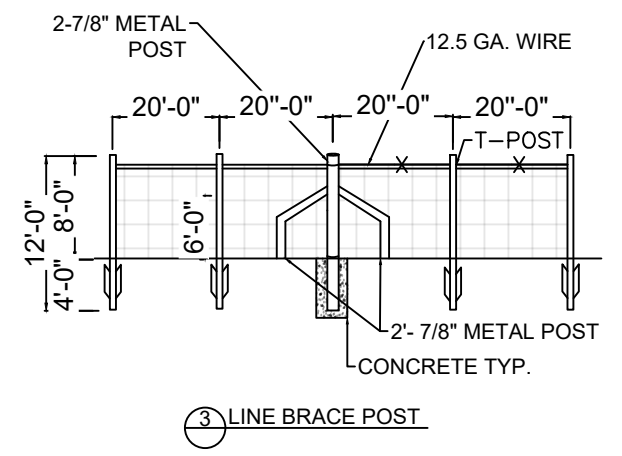
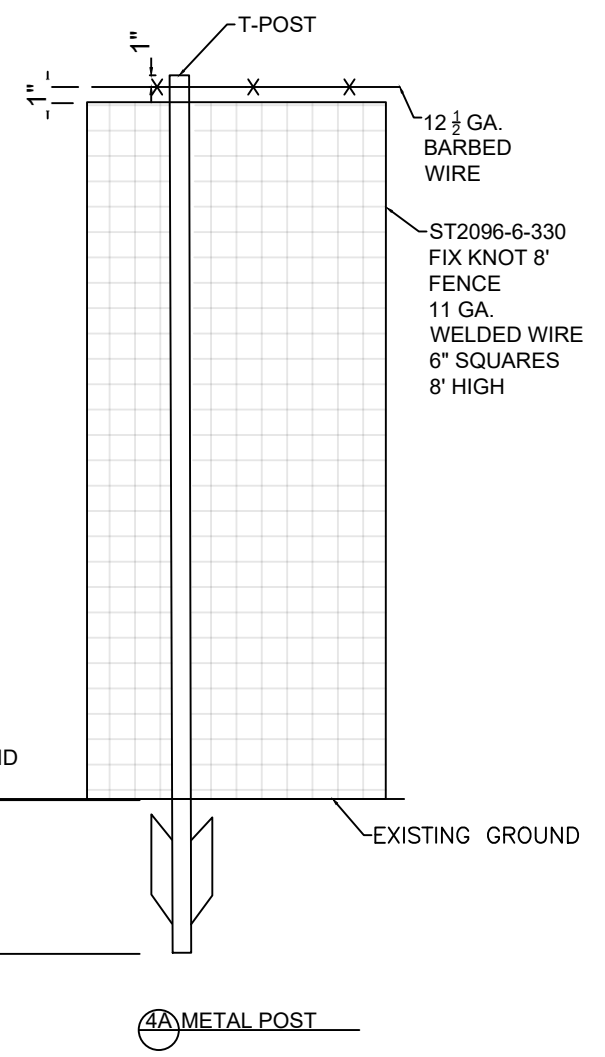
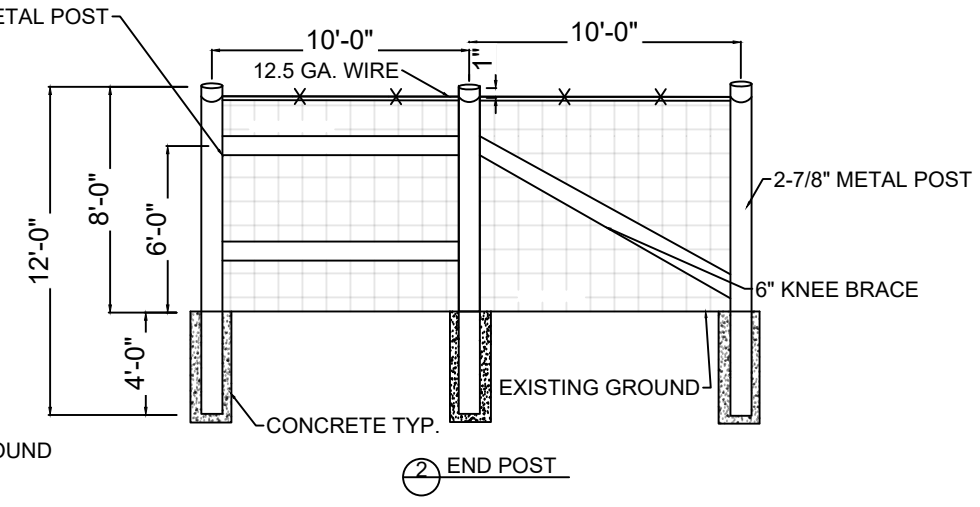
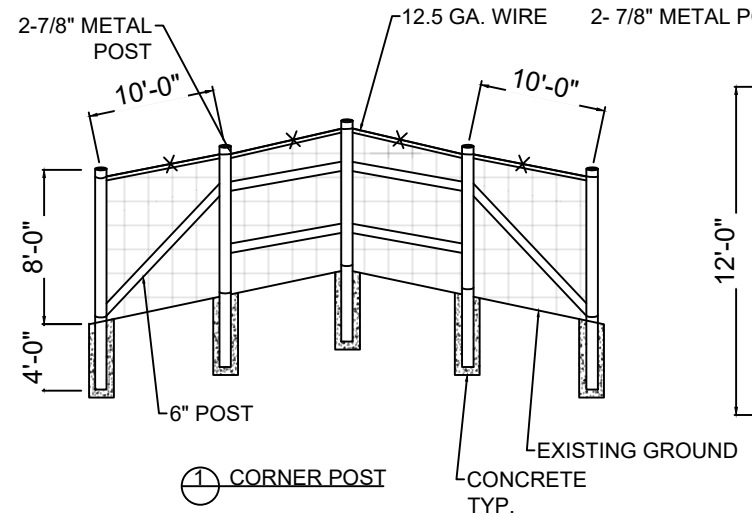
PROJECT NUMBER:  
26051

PROJECT ENGINEER:  
JEREMY BAKER, PE  
DRAWN BY:  
C. JIMENEZ

REVISIONS		
No.	DATE	DESCRIPTION



02/26/2026  
SHEET:  
9 of 9  
CS-503



## Venegas, Victoria, EMNRD

---

**From:** Venegas, Victoria, EMNRD  
**Sent:** Monday, March 30, 2026 3:04 PM  
**To:** tim.jurco@hydrosourcelogistics.com; gjennings@CascadeServicesLLC.com; Bobbi Jo Crain  
**Subject:** 1RF-535 - ANDREWS RECYCLING FACILITY & CONTAINMENTS [fVV2505047831]  
**Attachments:** C-147 1RF-535 - ANDREWS RECYCLING FACILITY & CONTAINMENTS [fVV2505047831] 03.30.2026.pdf

### 1RF-535 - ANDREWS RECYCLING FACILITY & CONTAINMENTS [fVV2505047831]

Good afternoon Mr. Jurco.

NMOCD has reviewed the recycling containment permit modification request and related documents, submitted by [332820] Hydrosource Logistics Waste Management, LLC on 03/23/2026, Application ID **565518** for the 1RF-535 - ANDREWS RECYCLING FACILITY & CONTAINMENTS [fVV2505047831] in O-19-26S-35E, Lea County, New Mexico. [332820] Hydrosource Logistics Waste Management, LLC requested the following modification to permit 1RF-535 - ANDREWS RECYCLING FACILITY & CONTAINMENTS [fVV2505047831]:

The modification consists of adding an additional containment to permit 1RF-535. Hydrosource originally built what was intended to be a freshwater pond adjacent to the 1RF-535 – ANDREWS FACILITY & CONTAINMENTS [fVV2505047831]. However, Hydrosource now seeks approval to convert this structure into a produced water recycling containment. The requested modification is approved with the following conditions of approval:

- No changes to the operations procedures, maintenance, and monitoring procedures, or closure procedures will be made aside from the approved modification. The 1RF-535 - ANDREWS RECYCLING FACILITY & CONTAINMENTS [fVV2505047831] will operate as originally permitted.
- [332820] Hydrosource Logistics Waste Management, LLC shall notify OCD when construction of 1RF-535 - ANDREWS RECYCLING FACILITY & CONTAINMENTS [fVV2505047831] commences.
- [332820] Hydrosource Logistics Waste Management, LLC shall notify OCD when recycling operations commence and cease at 1RF-535 - ANDREWS RECYCLING FACILITY & CONTAINMENTS [fVV2505047831].
- Per Rule 19.15.34.15.A.(1) operators without existing financial assurance pursuant to 19.15.8 NMAC shall furnish financial assurance acceptable to the division in the amount of the recycling containment's estimated closure cost. The closure cost estimate provided in the modification in the amount of \$75,465.00 for 1RF-535 - ANDREWS RECYCLING FACILITY & CONTAINMENTS [fVV2505047831] meets the requirements of NMAC 19.15.34.15.A.(1).
- The financial assurance should be mailed to: EMNRD - Oil Conservation Division Administration & Compliance Bureau. Attn: Bond Administrator.  
1220 S. St. Francis Drive | Santa Fe, NM 87505. (505) 660-2501

Please let me know if you have any additional questions.

Best regards,

**Victoria Venegas** • Senior Environmental Scientist  
EMNRD - Oil Conservation Division  
506 W. Texas Ave. Artesia, NM 88210  
575.909.0269 | [Victoria.Venegas@emnrd.nm.gov](mailto:Victoria.Venegas@emnrd.nm.gov)

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 565518

**CONDITIONS**

Operator: Hydrosorce Logistics Waste Management, LLC 600 N. Marienfeld Midland, TX 79701	OGRID: 332820
	Action Number: 565518
	Action Type: [C-147] Water Recycle Long (C-147L)

**CONDITIONS**

Created By	Condition	Condition Date
venegas	. [332820] Hydrosorce Logistics Waste Management, LLC requested the following modification to permit 1RF-535 - ANDREWS RECYCLING FACILITY & CONTAINMENTS [fVV2505047831]: The modification consists of adding an additional containment to permit 1RF-535. Hydrosorce originally built what was intended to be a freshwater pond adjacent to the 1RF-535 – ANDREWS FACILITY & CONTAINMENTS [fVV2505047831]. However, Hydrosorce now seeks approval to convert this structure into a produced water recycling containment. The requested modification is approved	3/30/2026