

NM1 - _____ 63 _____

CONSTRUCTION PLANS

Cell 4-AB



May 12, 2022

Mr. Brad Jones
Environmental Scientist Specialist
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: OWL NDBL SWMF Cell 4-AB Construction Plans
Document Received 4/20/2022

Dear Mr. Jones:

I have reviewed the construction plans and specifications for Cell 4-AB for its engineering content, completeness, and accuracy in accordance with NMAC 19.15.36 and/or applicable federal standards and guidelines, and generally acceptable engineering practice. The engineering firm of record is Parkhill, Inc. Contained herein are my observations and comments.

General:

Construction plans for Cell 4-AB and annotated specifications therein were provided by Parkhill, Inc. It is my professional opinion that the engineering detailed in the construction plans and specifications provided for Cell 4-AB components meets or exceeds the regulatory requirements established by the New Mexico Energy, Minerals and Natural Resources Department (NMEMNRD), Oil Conservation Division (OCD).

Construction Plans:

Construction drawing Sheets C-101 to 104 (Civil); C-301 (Subgrade cross-sections); and C-501 to 504 (Details) were reviewed. Cell 4-AB adjoins Cell 3-AB to the east and future Cell 5 to the west. The elements of design for Cell 4-AB were detailed. These details were annotated for efficient review of the proposed design. No design issues were noted as per the proposed cell layout and tie-in configuration with respect to Cell 3-AB and future Cell 5, base subgrade, cell cross-sections, floor and sidewall liner details, leachate management and temporary sump leak detection details, constructed cell fill (except as noted below), and interim stormwater management. Typical details for these design elements were provided and are the same as provided for Cells 2-AB and 3-AB. General engineering details for liner fusion and extrusion seaming and liner repair are typical per industry standard and are compliant with prescriptive regulatory requirements.

As stated the multi-layered liner system for cell bottom and sideslope is the same as approved for Cells 2-AB and 3-AB. Inside cell slope is 3H:1V, except for the northern portion of the cell at 4H:1V. This section of Cell 4-AB has a compacted berm fill with an

outside slope of 3H:1V. The plans show about 20 ft of vertical fill required. The plans do not indicate a specified compaction density for this berm construction. However, the anchor trench constructed at the top of the berm fill specifies a 90% standard proctor dry density. Cut-fill estimates based on the cut-fill tic plan (Sheet C-104) indicates a net soil volume balance, more than sufficient to construct the northern berm. L-shaped liner anchorage is typical per industry standard and compliant with regulatory requirements. The specified bottom cross-slopes provided on the subgrade grading plan for Cell 4-AB meet the minimum liner slope of 2.8 % specified in Vol I of the 2016 Application. Compaction for the subgrade and is specified at 90 % standard proctor dry density.

The leachate collection trench at 2.5 % exceeds the minimum prescriptive slope requirement of 2 %. Leachate collection trench and piping as well as cleanout riser and trench are typical per industry standard and are compliant with prescriptive regulatory requirements. A 2 ft protective soil layer over the double composite liner system meets the prescriptive depth requirement. A saturated hydraulic conductivity of greater than or equal to 4.2×10^{-5} exceeds the prescriptive requirement.

Cell transition details for Cell 4-AB to the west and east at the lower portion of Cell 3-AB are typical per industry standard and are compliant with prescriptive regulatory requirements. A temporary sump for leachate extraction and leak detection was provided at the south end of Cell 4-AB for tie-in downgradient. These details are typical per industry standard and are compliant with prescriptive regulatory requirements. Easy access to leachate extraction and monitoring of leakage through the primary barrier layer is facilitated with the design provided.

Materials of Construction Compatibility:

No comment is needed as the geocomposites, HDPE geomembranes, geosynthetic clay liner, and HDPE collection pipe specified are industry standard materials of construction for landfills.

Conclusion:

Based on a review of the plans and specifications provided with one clarification as noted above, it is my professional opinion that the design for Cell 4-AB represents a state-of-the-art consensus practice for landfill engineering for this waste stream application.

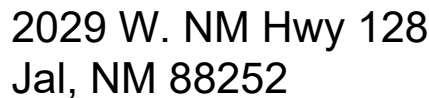
If you require additional information or clarification on this review, please contact me directly at 505-835-5467 (w) or 505-838-6227 (c), or email me at clinton.richardson@nmt.edu.

Sincerely,

Clinton P. Richardson, Ph.D., P.E., BCEE

Cc Tyler Krueger, PE.

A



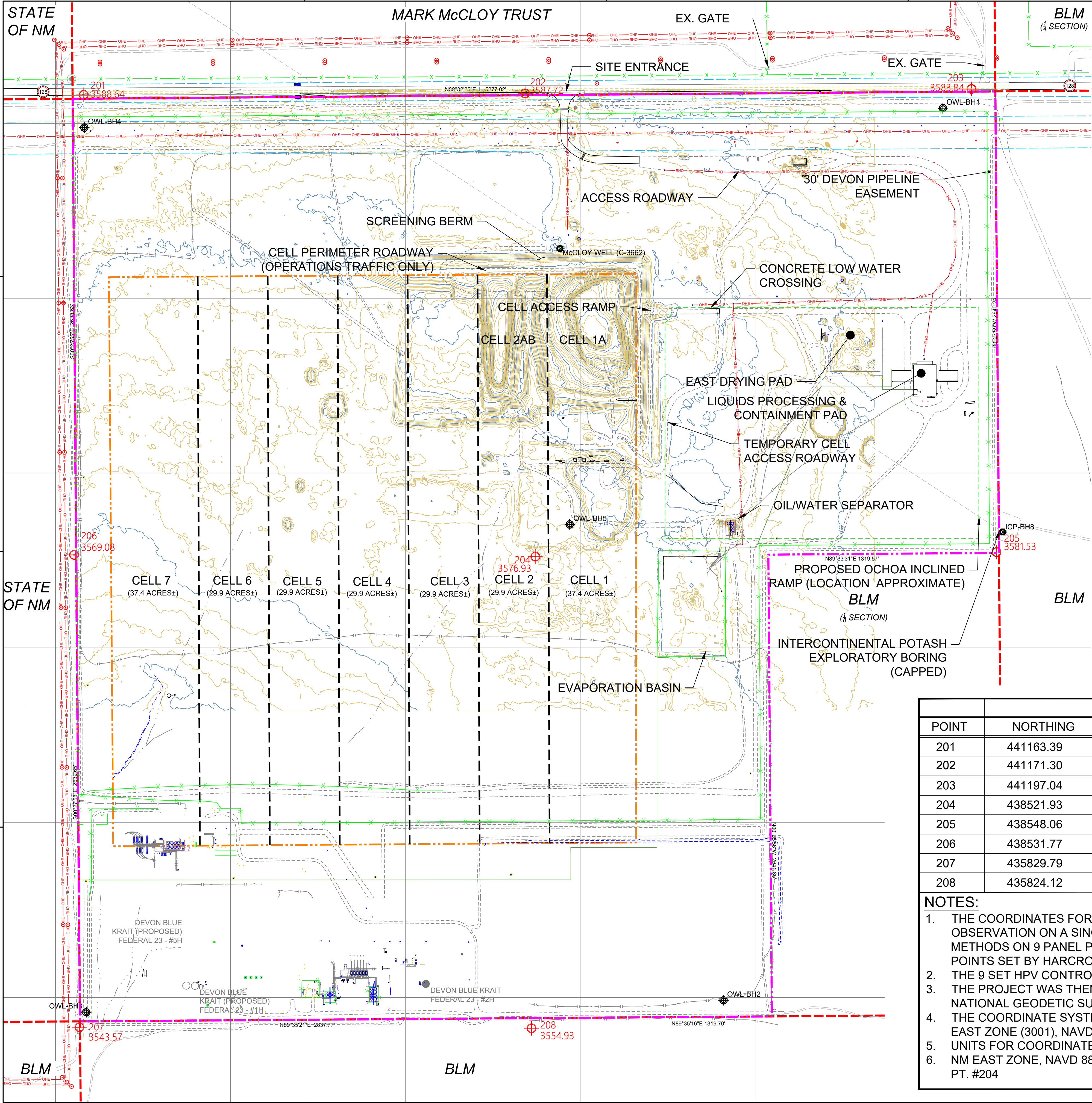
LEGEND	
	PROPERTY BOUNDARY
	SECTION BOUNDARY
	SOLID WASTE DISPOSAL BOUNDARY
	PROCESSING AREA BOUNDARY
	CELL BOUNDARY
	PROJECT BOUNDARY
	BUILDING OUTLINE
	EXISTING EASEMENT
	EXISTING FENCE
	EXISTING PIPELINE
	EXISTING OVERHEAD ELECTRIC LINES
	EXISTING UNDERGROUND ELECTRIC LINE
	EXISTING BRINE LINE
	EXISTING CONTOUR - INDEX (10')
	EXISTING CONTOUR - INTERMEDIATE (2')
	PROPOSED GRADE CONTOUR - 10'
	PROPOSED GRADE CONTOUR - 2'
	PROPOSED TOP OF SLOPE
	PROPOSED TOE OF SLOPE
	EXISTING UNPAVED ROADWAY
	PROPOSED OCHOA INCLINED RAMP
	EXISTING PAVED ROADWAY
	EXISTING LEACHATE LINE
	PROPOSED LEACHATE LINE
	PROPOSED LINER TURNDOWN
	EXISTING DRAINAGE CHANNEL
	PROPOSED CULVERT
	BORING/WELL LOCATION
	GEOTECHNICAL BORING LOCATION
	POWER POLE
	POWER POLE
	CONTROL POINT
	CONTROL POINT
	LANDFILL FILL POINT
	(TO TOP OF SUBGRADE ELEVATION)
	LANDFILL CUT POINT
	(TO TOP OF SUBGRADE ELEVATION)
	TRANSITION ZONE
	PROJECT BOUNDARY



COVER SHEET AND INDEX

G-101

FILE NAME: A:\2020\6752.20\03_DSGN01_DWG\050_CIVIL\02_CONTENT\OWL_Cell_4AB\DRAWINGS\C-101-475220-1-22.dwg LAYOUT NAME: C-101 PRINTED: Wednesday, April 20, 2022 - 9:46am USER: dmll



SURVEY NOTES:

1. AERIAL TOPOGRAPHIC SURVEY BY PARKHILL 42222 85TH STREET, LUBBOCK, TX 79423 PHONE: (806-473-2200) DATE OF PHOTOGRAPHY: 12-02-2021.
2. SURVEY CONTROL POINTS BY JOHN WEST SURVEYING CO., 412 N. DAL PASO ST., HOBBS, NM 88240 PHONE: (575-393-3117).
3. THE COORDINATES FOR THE PROJECT WERE ESTABLISHED BY RUNNING A STATIC OBSERVATION ON A SINGLE CONTROL POINT (CP DUKE) FOR 4.5 HOURS, RTK SURVEY METHODS ON 9 PANEL POINTS SET BY JOHN WEST SURVEYING CO. AND 5 EXISTING POINTS SET BY HARCROW SURVEYING, INC. (SURVEY DATE AUGUST 7, 2020).

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OWL NDBL SWMF
CELL 4AB
CONSTRUCTION PLANS



CLIENT
OWL LANDFILL
SERVICES, LLC.
2029 W. NM Hwy 128
JAL, NM 88252
LEA COUNTY

PROJECT NO.
6752.21

1	04/20/2022	Issued for OCD review
-	02/07/22	Issued for Client Review

SITE PLAN
EXISTING
CONDITIONS

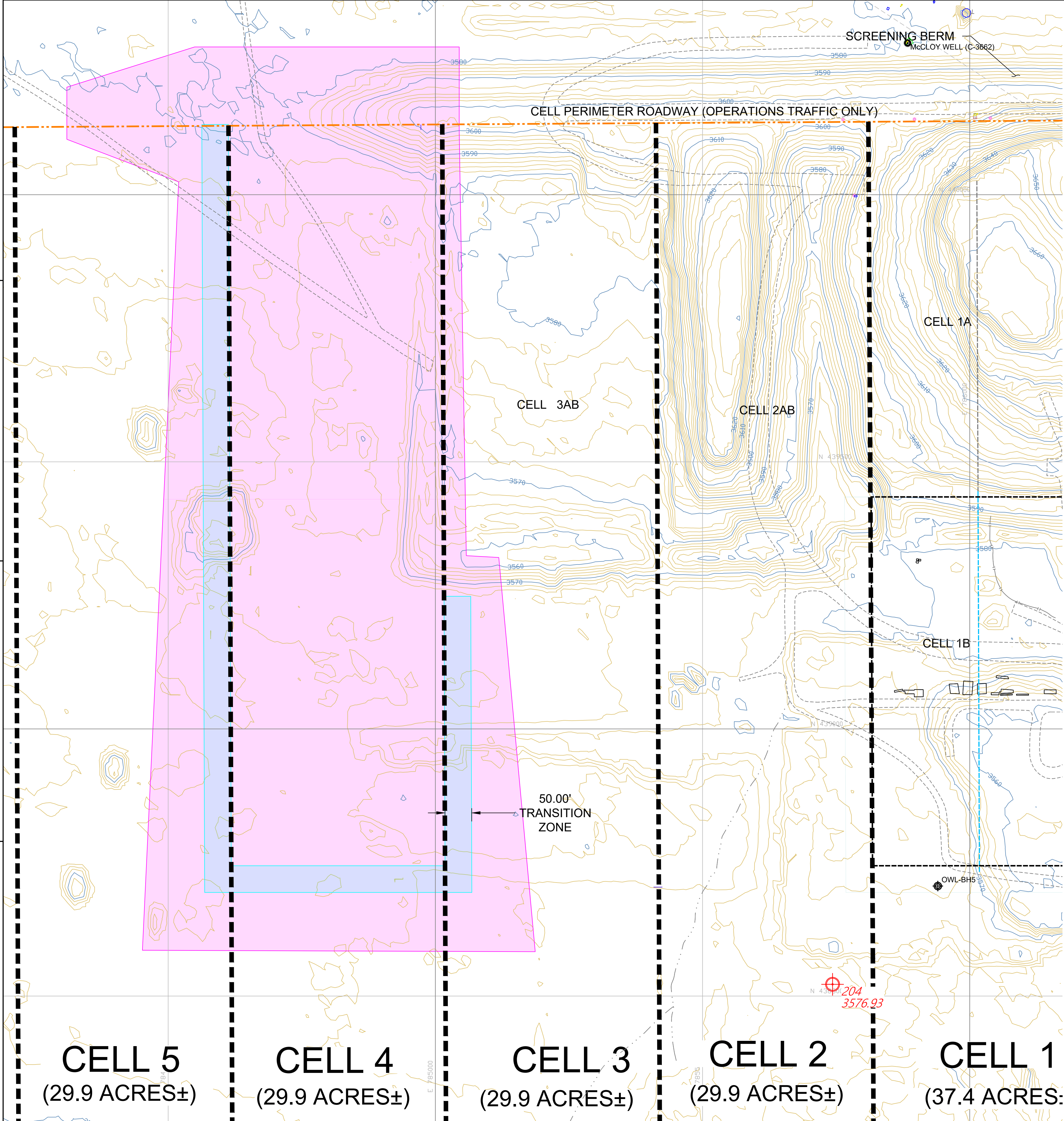
C-101

CONTROL POINT DATA				
POINT	NORTHING	EASTING	PANEL ELEVATION	DESCRIPTION
201	441163.39	783161.32	3588.64	HPV #1 NAIL
202	441171.30	785684.93	3587.72	HPV #2 NAIL
203	441197.04	788237.32	3583.84	HPV #3 NAIL
204	438521.93	785743.27	3576.93	HPV #4 NAIL
205	438548.06	788380.09	3581.53	HPV #5 NAIL
206	438531.77	783105.77	3569.08	HPV #6 NAIL
207	435829.79	783137.03	3543.57	HPV #7 NAIL
208	435824.12	785721.58	3554.93	HPV #8 NAIL

NOTES:

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2. THE 9 SET HPV CONTROL POINTS WERE OBSERVED FOR 3 MINUTES EACH.
3. THE PROJECT WAS THEN ADJUSTED USING THE OPUS SOLUTION PROVIDED BY NATIONAL GEODETIC SURVEY ON AUGUST 10, 2020.
4. THE COORDINATE SYSTEM FOR THE PROJECT: STATE PLANE, NAD 83, NEW MEXICO EAST ZONE (3001), NAVD 88.
5. UNITS FOR COORDINATES AND ELEVATIONS ARE US SURVEY FEET.
6. NM EAST ZONE, NAVD 88, NAD 83 SURFACE COORDINATES, CGF = 0.999810779110 AT PT. #204

FILE NAME: A:\2020\6752.20\03_DSGN01_DWG\050_CIVIL\02_CONTENT\OWL_Cell 4AB\DRAWINGS\C-102-675220-1-22-NEW.dwg LAYOUT NAME: C-102 PRINTED: Wednesday, April 20, 2022 - 9:49am USER: dmill



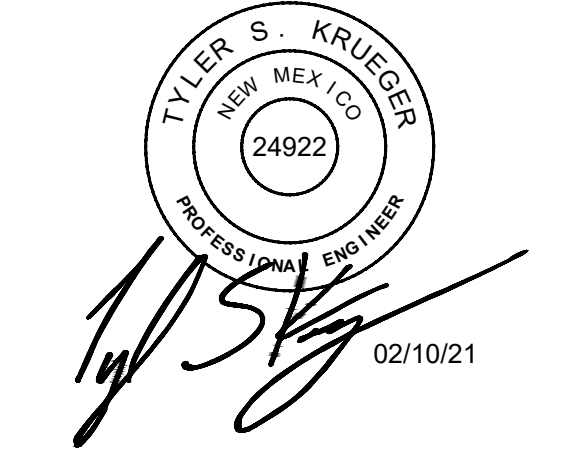
GENERAL NOTE

1. PROPOSED GRADE = TOP OF SUBGRADE = EXCAVATION GRADE = BASE GRADE

SURVEY NOTES:

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OWL NDBL SWMF
CELL 4AB
CONSTRUCTION PLANS



CLIENT
OWL LANDFILL
SERVICES, LLC.
2029 W. NM Hwy 128
JAL, NM 88252
LEA COUNTY

PROJECT NO.
6752.21

1	04/20/2022	Issued for OCD review
-	02/07/22	Issued for Client Review

DATE DESCRIPTION

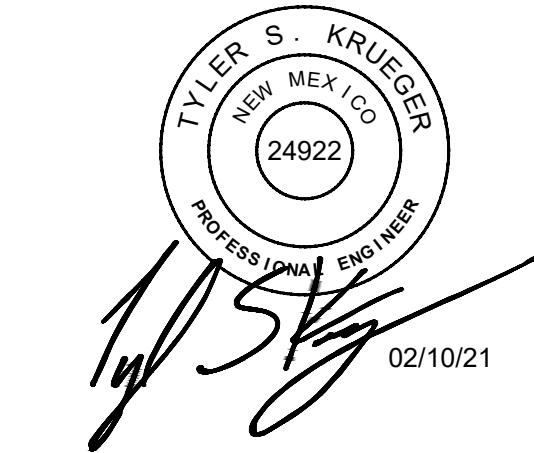
SITE
DEVELOPMENT
PLAN

C-102



1. PROPOSED GRADE = TOP OF SUBGRADE = EXCAVATION GRADE = BASE GRADE

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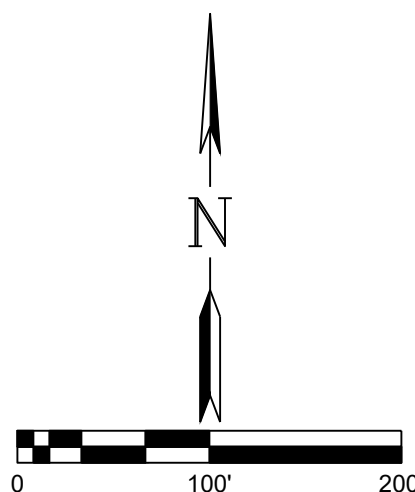
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SERVICES, LLC.**
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JAL, NM 88252
LEA COUNTY

PROJECT NO.
6752.21

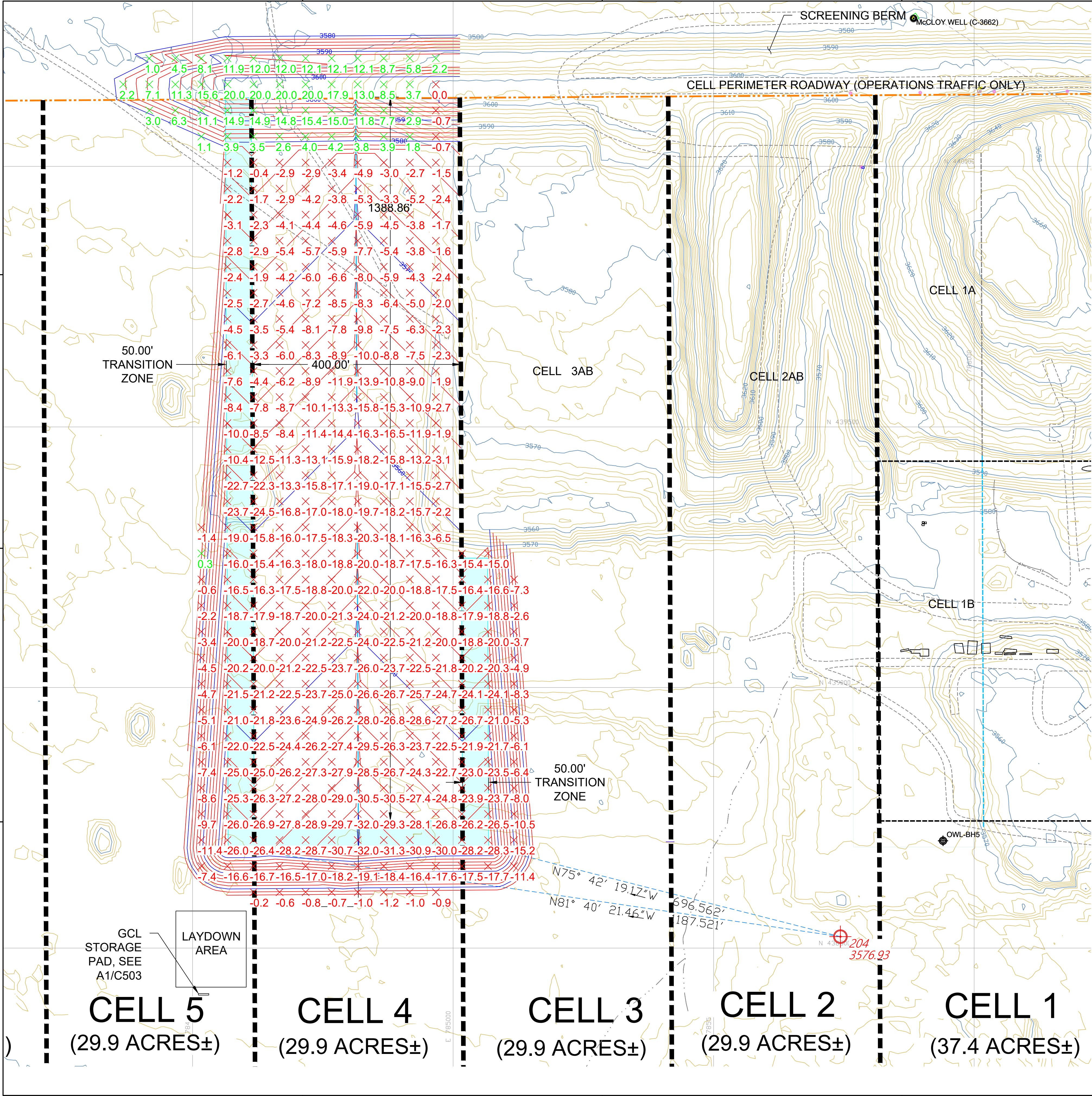
1	04/20/2022	Issued for OCD review
-	02/07/22	Issued for Client Review
#	DATE	DESCRIPTION

LANDFILL SUBGRADE GRADING PLAN

C-103



FILE NAME: A:\2020\6752.20\03_DSGN01_DWG\050_CIVIL\02_CONTENT\OWL Cell 4AB\DRAWINGS\C-104-675220-1-22-NEW.dwg LAYOUT NAME: C-104 PRINTED: Wednesday, April 20, 2022 - 9:54am USER: dmill



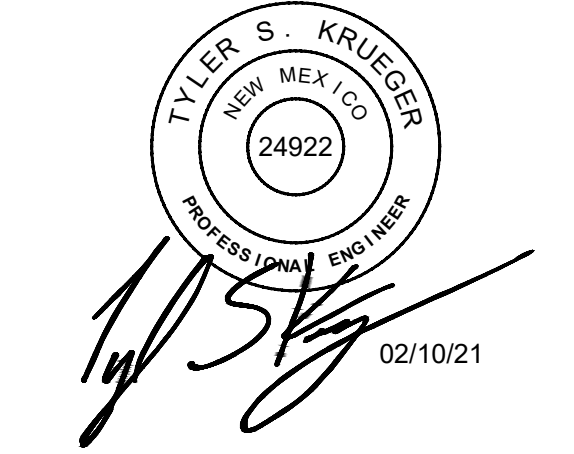
GENERAL NOTE

1. PROPOSED GRADE = TOP OF SUBGRADE = EXCAVATION GRADE = BASE GRADE

SURVEY NOTES:

1. AERIAL TOPOGRAPHIC SURVEY BY PARKHILL 42222 85TH STREET, LUBBOCK, TX 79423 PHONE: (806-473-2200) DATE OF PHOTOGRAPHY: 12-02-2021.
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**OWL NDBL SWMF
CELL 4AB
CONSTRUCTION PLANS**



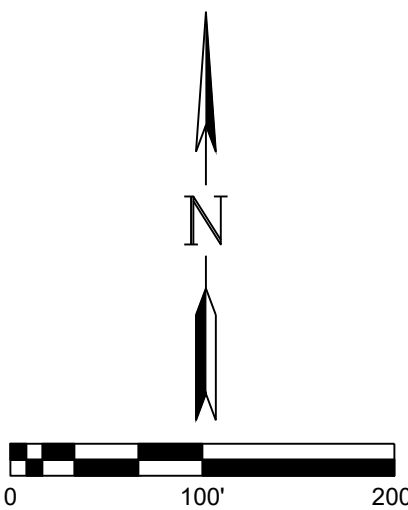
CLIENT
OWL LANDFILL SERVICES, LLC.
2029 W. NM Hwy 128
JAL, NM 88252
LEA COUNTY

PROJECT NO.
6752.21

#	DATE	DESCRIPTION
1	04/20/2022	Issued for OCD review
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**LANDFILL
SUBGRADE
CUT-FILL TIC
PLAN**

C-104



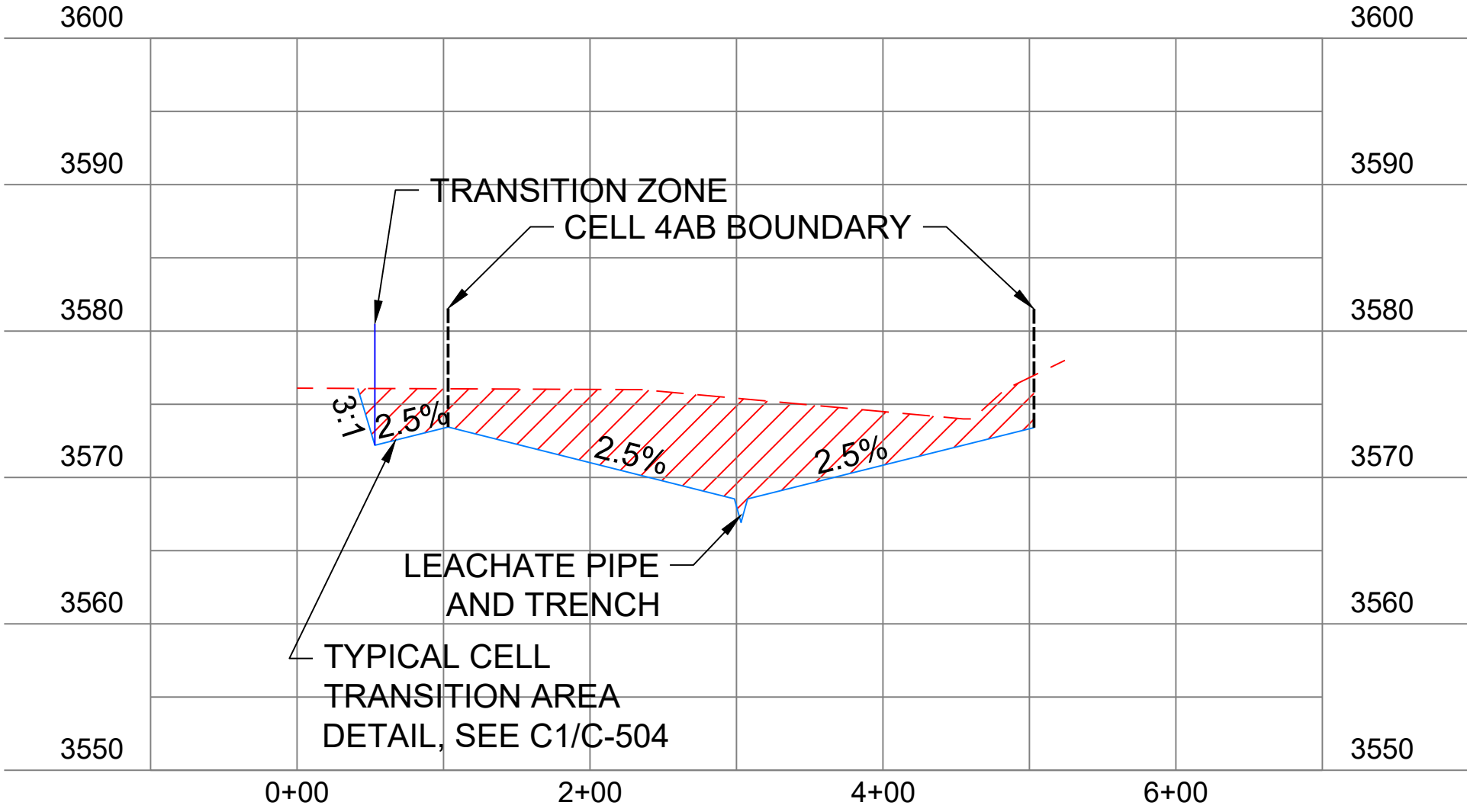
FILE NAME: A:\2020\6752.20\03_DSGN01_DWG\050_CIVIL\02_CONTENT\OWL_Cell 4AB\DRAWINGS\C-301-675220-4-22-NEW.dwg LAYOUT NAME: C-301 PRINTED: Wednesday, April 20, 2022 - 10:08am USER: dmll

D

C

B

A



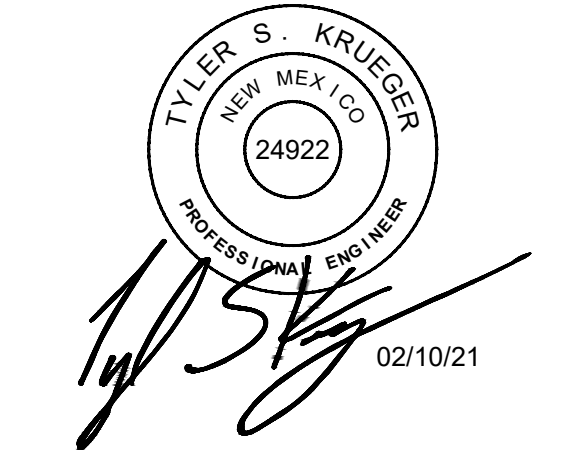
GENERAL NOTE

1. PROPOSED GRADE = TOP OF SUBGRADE =
EXCAVATION GRADE = BASE GRADE

LEGEND

- EXISTING GRADE
--- PROPOSED GRADE
CELL 4AB EXCAVATION
CELL 4AB FILL

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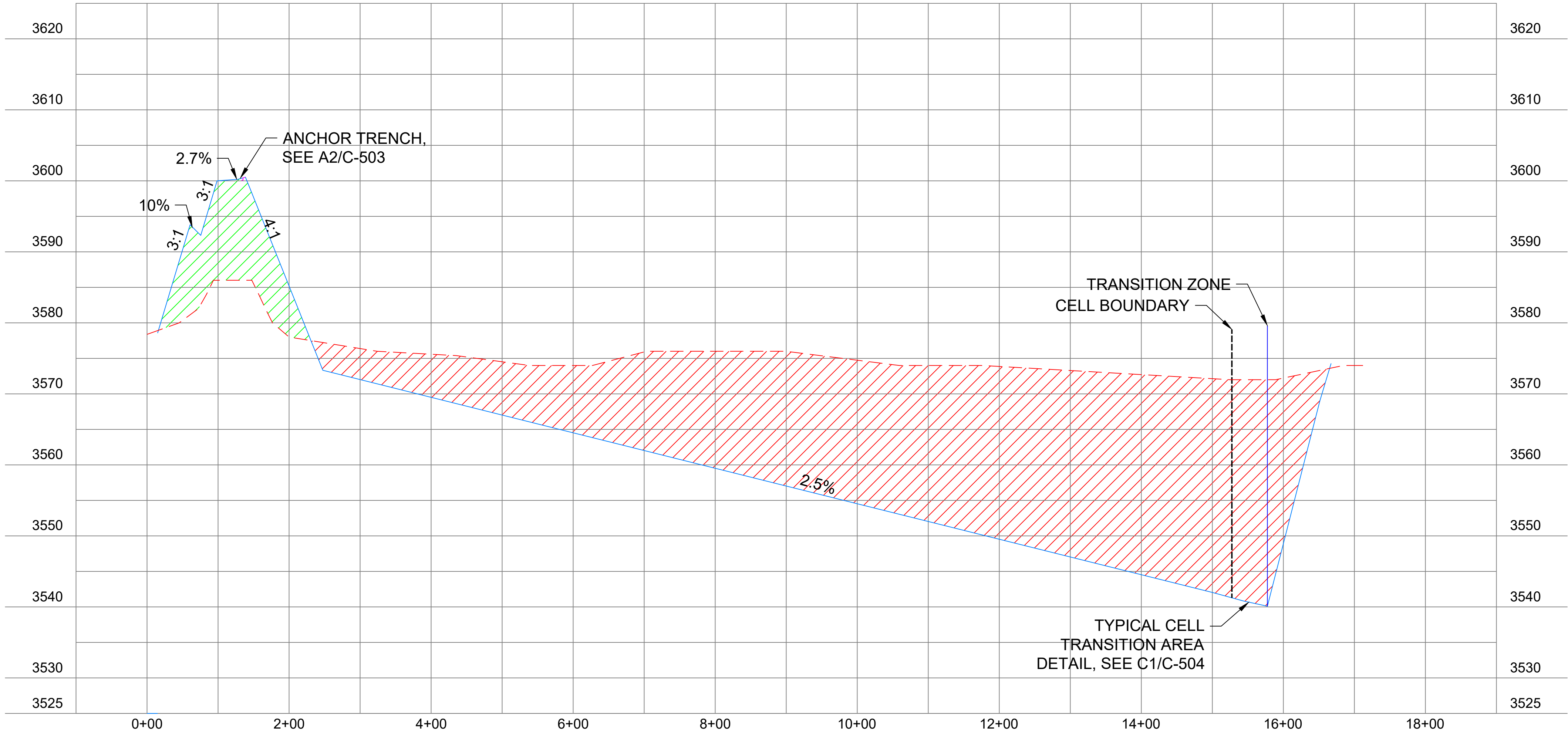
Parkhill.com

C1

LANDFILL AREA EAST-WEST CROSS SECTION

SCALES: HORIZ 1" = 100' VERT 1" = 10'

SECTION VIEW

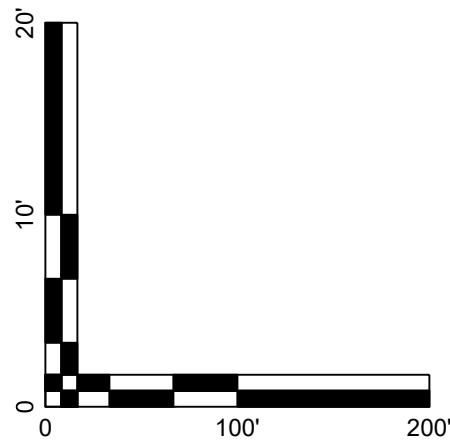


A1

LANDFILL NORTH-SOUTH CROSS SECTION

SCALES: HORIZ 1" = 100' VERT 1"=10'

SECTION VIEW



OWL NDBL SWMF
CELL 4AB
CONSTRUCTION PLANS



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2029 W. NM Hwy 128
JAL, NM 88252
LEA COUNTY

PROJECT NO.

6752.21

1 04/20/2022 Issued for OCD review

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DATE DESCRIPTION

LANDFILL
SUBGRADE
CROSS
SECTIONS

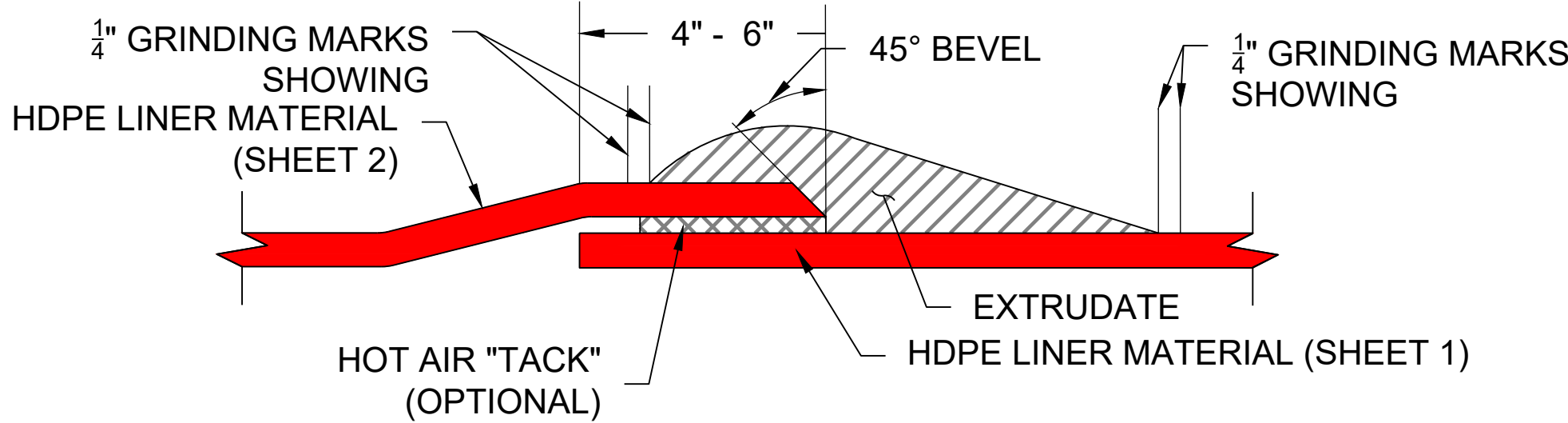
C-301

D

C

B

A



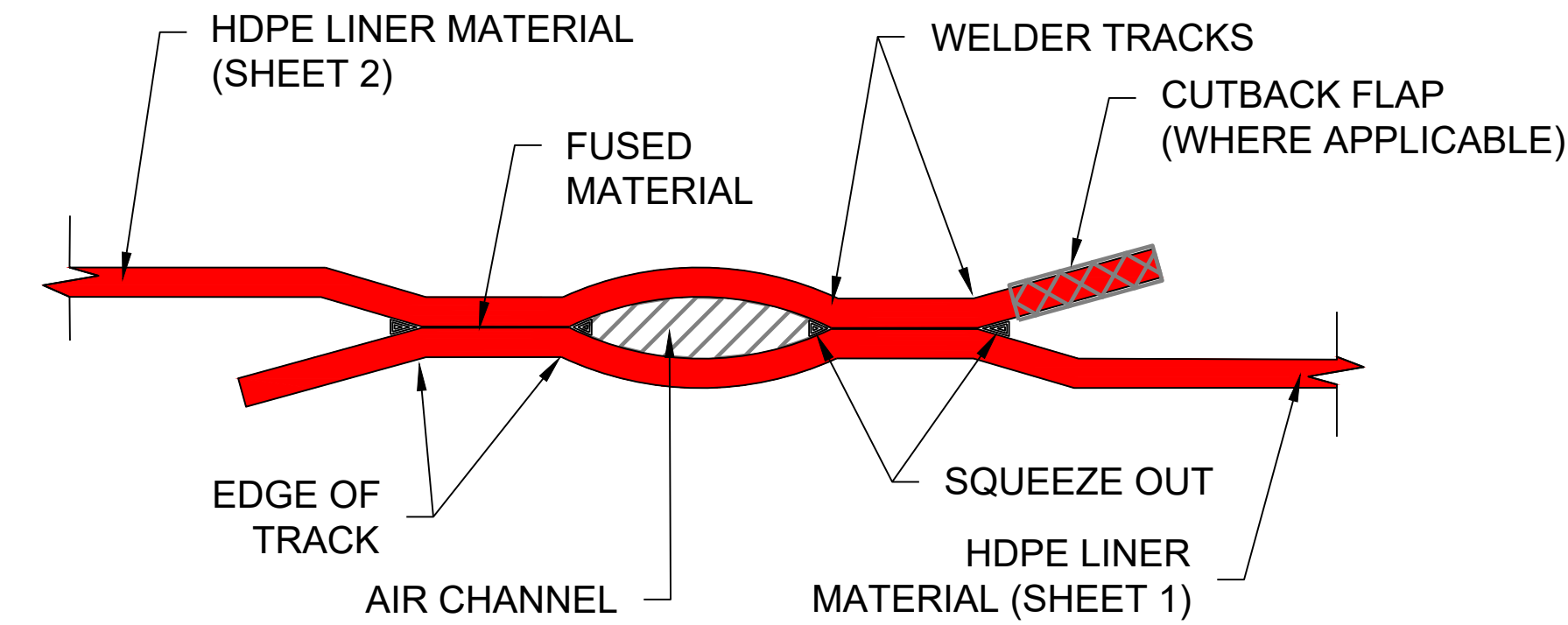
- NOTES:
1. ALL EXTRUSION WELDS SHALL BE VACUUM TESTED

C1

TYPICAL EXTRUSION WELD

NOT TO SCALE

SECTION VIEW



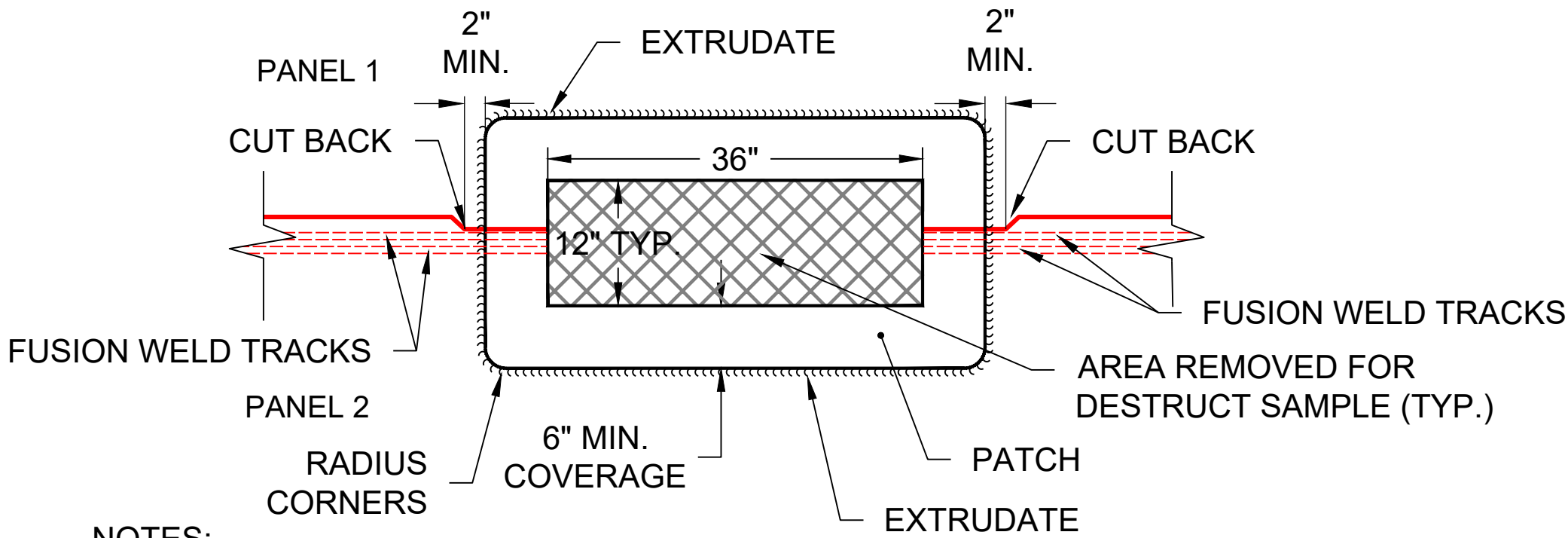
- NOTES:
1. BOTH AREAS OF FUSED MATERIAL SHOULD BE VOID OF ANY SEAM LINES
 2. EDGE OF TRACKS NOT TO CUT THE LINER
 3. AIR CHANNEL SHOULD BE CLEAR
 4. BOTH WELDER TRACKS SHALL BE EQUAL WIDTHS
 5. SQUEEZE OUT SHOULD BE JUST BARELY VISIBLE IN ALL FOUR (4) LOCATIONS WHEN VIEWED IN THE TEST CROSS-SECTION
 6. ALL DOUBLE TRACK FUSION WELDS SHALL BE AIR PRESSURE TESTED

A1

TYPICAL DOUBLE TRACK FUSION WELD

NOT TO SCALE

SECTION VIEW



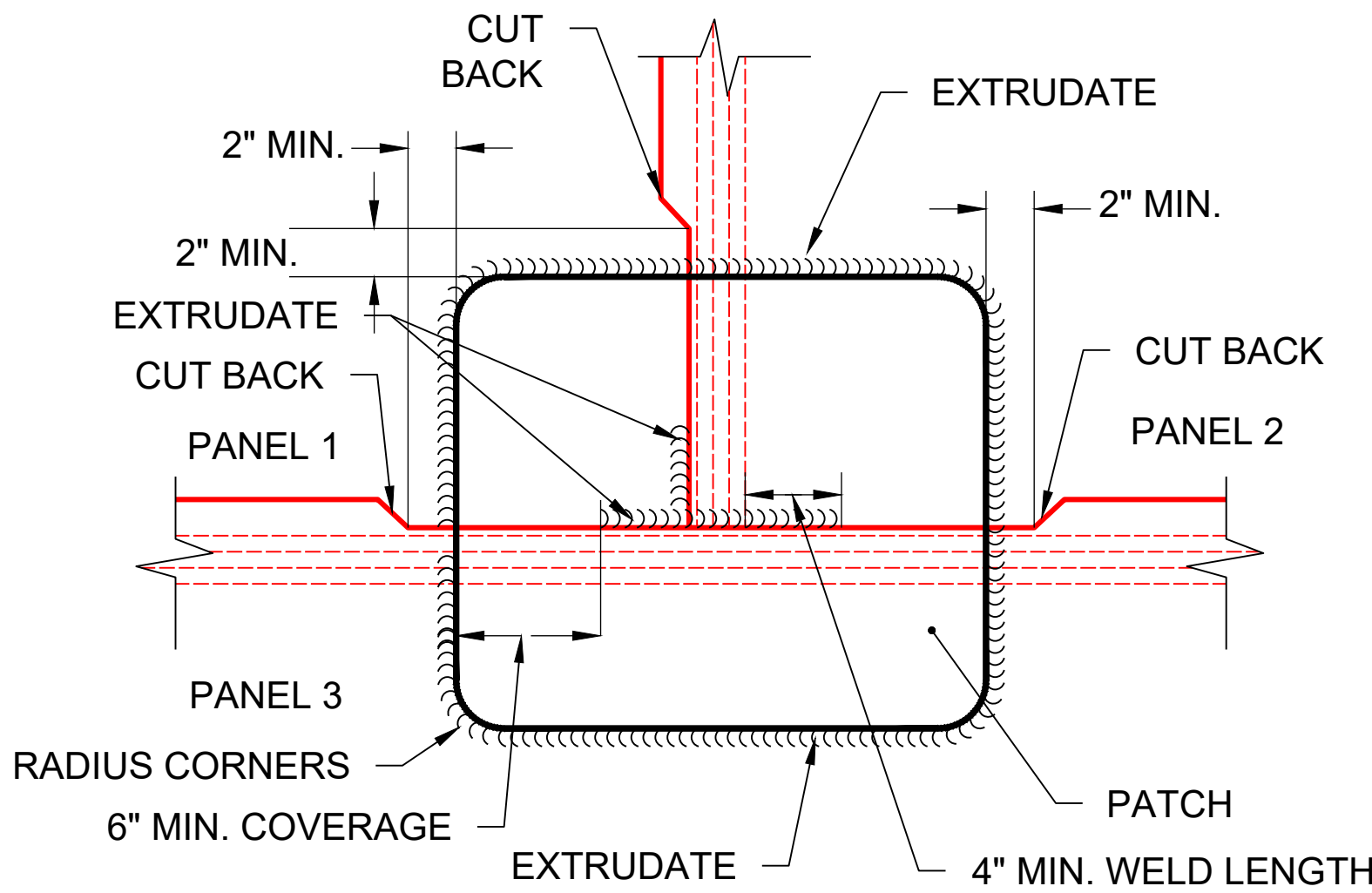
- NOTES:
1. ALL EXTRUSION WELDS SHALL BE VACUUM TESTED
 2. ALL DOUBLE TRACK FUSION WELDS SHALL BE AIR PRESSURE TESTED
 3. PANELS SHALL BE OVERLAPPED IN NUMERICAL ORDER - HIGHEST ON TOP

C2

TYPICAL HDPE LINER SEAM PATCH

NOT TO SCALE

SECTION VIEW



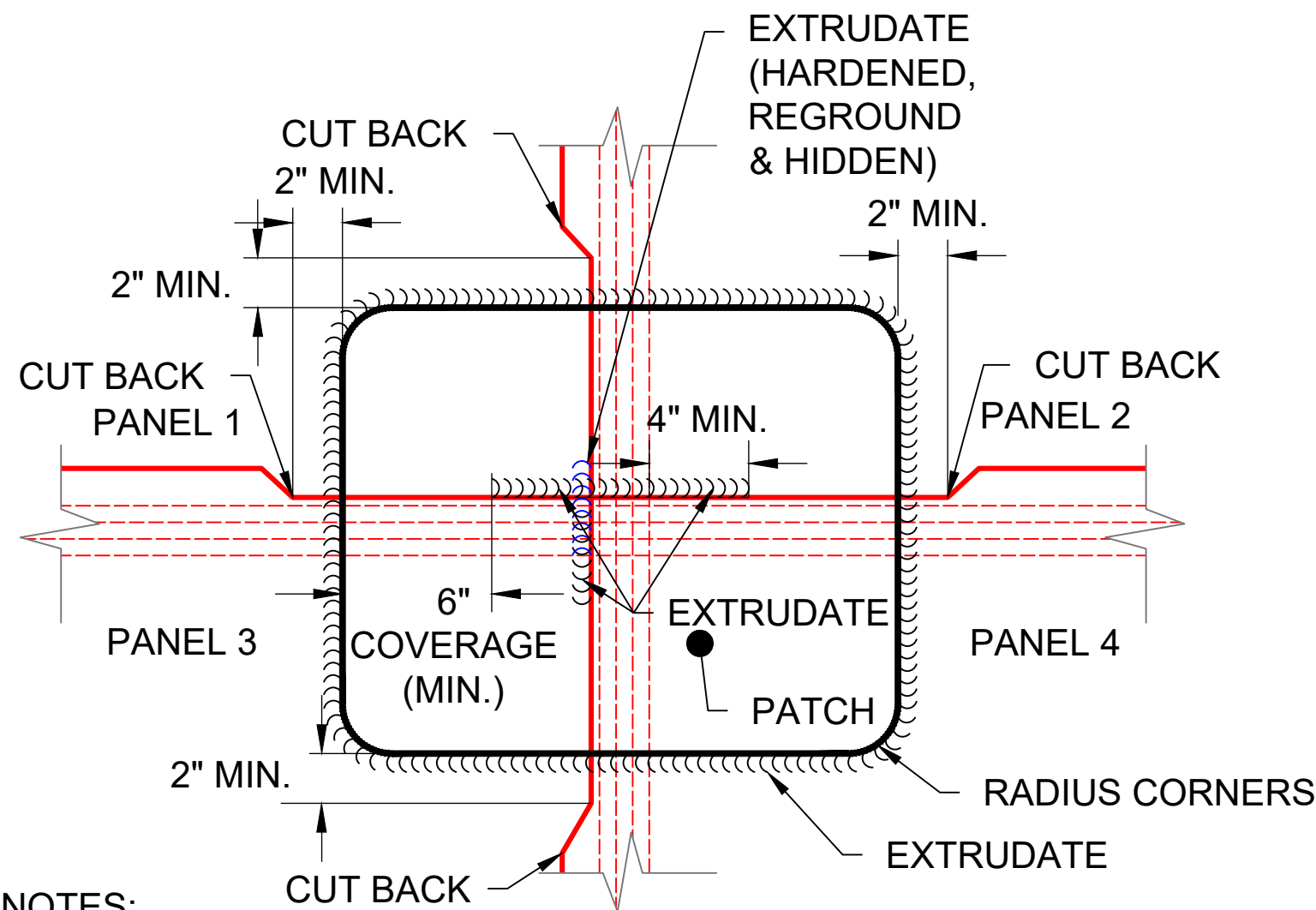
- NOTES:
1. ALL EXTRUSION WELDS SHALL BE VACUUM TESTED
 2. ALL DOUBLE TRACK FUSION WELDS SHALL BE AIR PRESSURE TESTED
 3. PANELS SHALL BE OVERLAPPED IN NUMERICAL ORDER - HIGHEST ON TOP

A2

TYPICAL "T" AT BUTT SEAM

NOT TO SCALE

SECTION VIEW



- NOTES:
1. ALL EXTRUSION WELDS SHALL BE VACUUM TESTED
 2. ALL DOUBLE TRACK FUSION WELDS SHALL BE AIR PRESSURE TESTED
 3. PANELS SHALL BE OVERLAPPED IN NUMERICAL ORDER - HIGHEST ON TOP

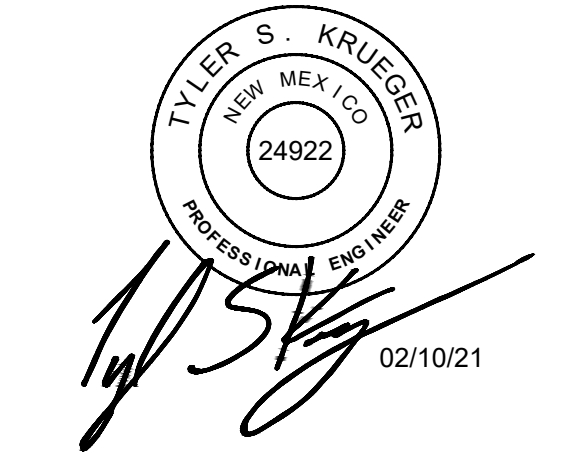
A3

TYPICAL PATCH AT PANEL END

NOT TO SCALE

PLAN VIEW

Parkhill



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Parkhill.com

OWL NDBL SWMF
CELL 4AB
CONSTRUCTION PLANS



CLIENT	
OWL LANDFILL SERVICES, LLC. 2029 W. NM Hwy 128 JAL, NM 88252 LEA COUNTY	
PROJECT NO. 6752.21	
1	04/20/2022 Issued for OCD review
-	02/07/22 Issued for Client Review
#	DATE DESCRIPTION

LANDFILL
ENGINEERING
DETAILS I

C-501

FILE NAME: A:\2020\6752\2003_DSGN01_DWG\050_CIVIL\02_CONTENT\OWL_Cell_4AB\DRAWINGS\C-502-67520-4-22.dwg LAYOUT NAME: C-502 PRINTED: Wednesday, April 20, 2022 - 10:12am USER: dmll

D

C

B

A

6" DIA HDPE SDR13.5
SUMP RISER PIPE (SOLID)

18" ADDITIONAL
PROTECTIVE SOILS

6" MIN

6" MIN

1'-6"

1V

2H

3.00'

3.00'

3.00'

1V

2H

3.00'

A2/C-502

C1 LEACHATE COLLECTION PIPE CLEANOUT RISER AND TRENCH
NOT TO SCALE SECTION VIEW

6" DIA HDPE SDR 13.5 PERFORATED
LEACHATE COLLECTION PIPE, SEE
DETAIL B2 THIS SHEET

3/4"-2" SELECT AGGREGATE WRAPPED IN
SINGLE-SIDED GEOCOMPOSITE IN
TRENCH ONLY

21.00'

2.00'

1.50'

1V

3H

4.50'

4.50'

1V

3H

6.00'

A1/C-502

B1 LEACHATE COLLECTION TRENCH AND PIPE
NOT TO SCALE SECTION VIEW

MIN. 24" PROTECTIVE SOIL
LAYER (ON-SITE SOILS)
 $K \geq 4.2 \times 10^{-5}$ CM/SEC

- 10oz/yd² / 200-mil / SINGLE-SIDED GEOCOMPOSITE
- 60-mil SMOOTH HDPE LINER
- 200-MIL GEONET (LEAK DETECTION LAYER)
- 60-mil SMOOTH HDPE LINER
- REINFORCED GEOSYNTHETIC CLAY LINER
- 6" PREPARED SUBGRADE COMPACTED TO 90%
STANDARD PROCTOR DRY DENSITY

A1 FLOOR LINER SYSTEM WITH PSL SHOWN
NOT TO SCALE SECTION VIEW

SIDEWALL LINER SYSTEM
MIN. 5' RUNOUT FROM TOE
OF SLOPE BEFORE HORIZONTAL SEAMS

A1/C-502

2.5%

1V

4H

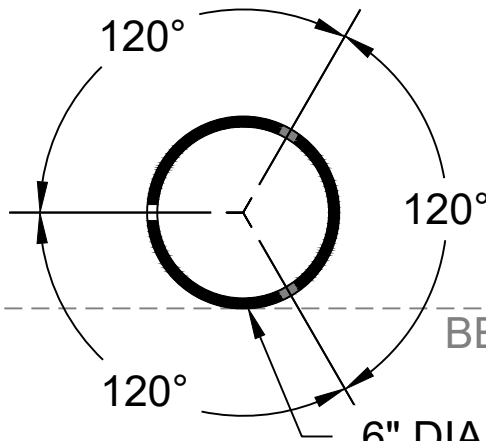
ANCHOR
TRENCH

A2/C-502

FUSION WELD WHEREVER
FEASIBLE HORIZONTAL WELDS
SHALL BE STAGGERED, SEE
DETAIL A1/C-501

C2 LINER RUN-OUT ON LANDFILL FLOOR
NOT TO SCALE SECTION VIEW

1/2" DIA. PERFORATION
(BEHIND)



6" DIA. SDR 13.5
HDPE PIPE

2"

2"

2"

6"

BEDDING

1/2" DIA.
PERFORATIONS

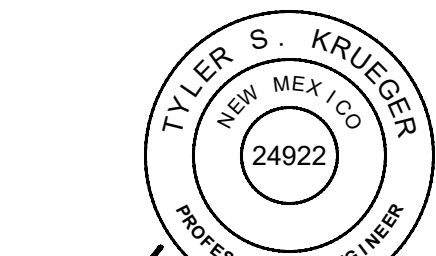
B2 PERFORATED LEACHATE COLLECTION PIPE
NOT TO SCALE SECTION VIEW

MIN. 24" PROTECTIVE SOIL
LAYER (ON-SITE SOILS)
 $K \geq 4.2 \times 10^{-5}$ CM/SEC

- 10oz/yd² / 200-mil / 10oz/yd² DOUBLE-SIDED GEOCOMPOSITE
- 60-mil DOUBLE-SIDED TEXTURED HDPE LINER
- 10oz/yd² / 200-mil / 10oz/yd² DOUBLE-SIDED GEOCOMPOSITE
- 60-mil DOUBLE-SIDED TEXTURED HDPE LINER
- REINFORCED GEOSYNTHETIC CLAY LINER
- 6" PREPARED SUBGRADE COMPACTED TO 90%
STANDARD PROCTOR DRY DENSITY

A2 SIDEWALL LINER SYSTEM WITH PSL SHOWN
NOT TO SCALE SECTION VIEW

Parkhill



02/10/21

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OWL NDBL SWMF
CELL 4AB
CONSTRUCTION PLANS



CLIENT
**OWL LANDFILL
SERVICES, LLC.**
2029 W. NM Hwy 128
JAL, NM 88252
LEA COUNTY

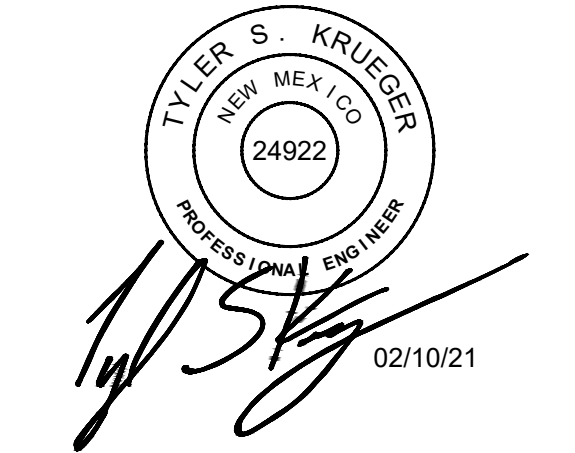
PROJECT NO.
6752.21

1	04/20/2022	Issued for OCD review
-	02/07/22	Issued for Client Review

**LANDFILL
ENGINEERING
DETAILS II**

C-502

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OWL NDBL SWMF
CELL 4AB
CONSTRUCTION PLANS



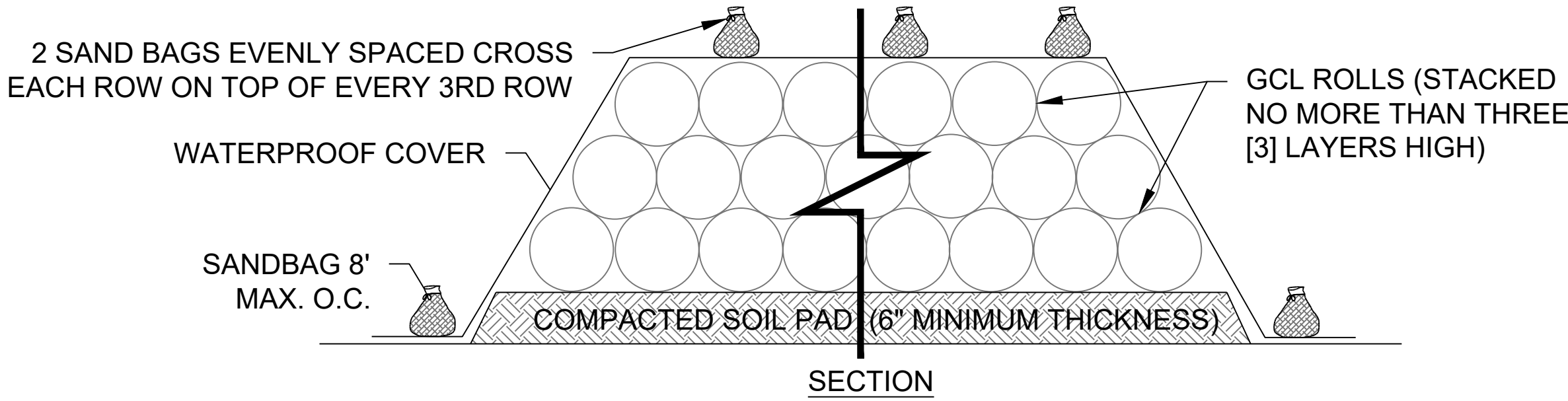
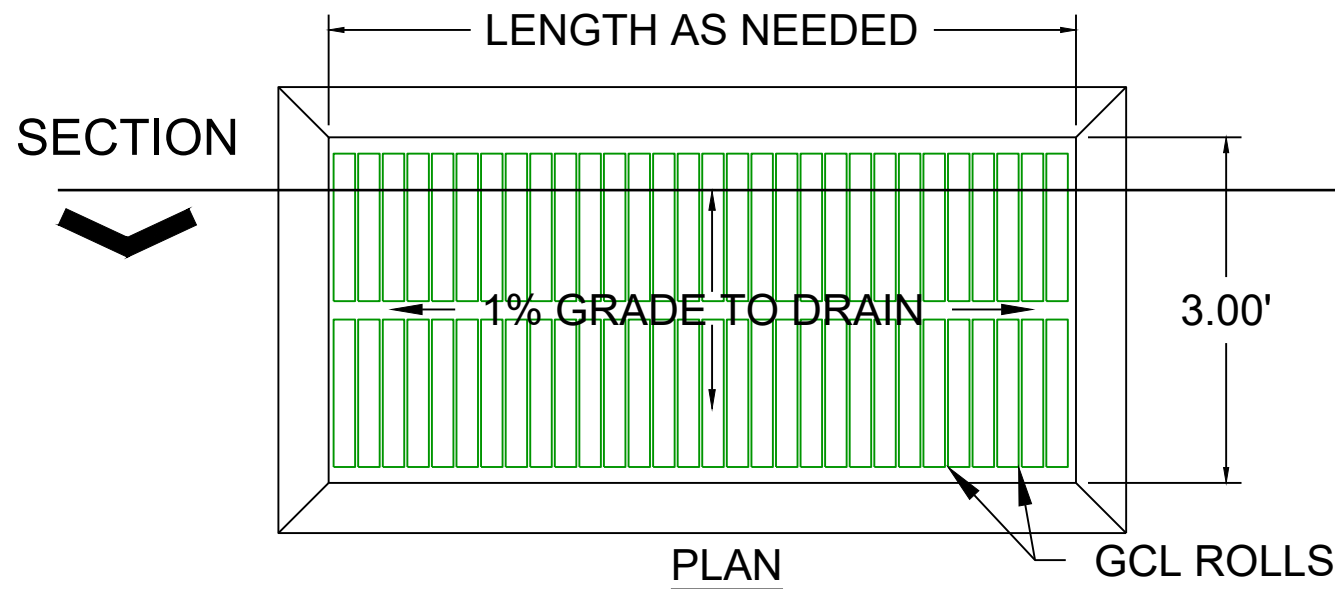
CLIENT	
OWL LANDFILL SERVICES, LLC. 2029 W. NM Hwy 128 JAL, NM 88252 LEA COUNTY	
PROJECT NO. 6752.21	
1	04/20/2022 Issued for OCD review
-	02/07/22 Issued for Client Review
#	DATE DESCRIPTION

LANDFILL
ENGINEERING
DETAILS III

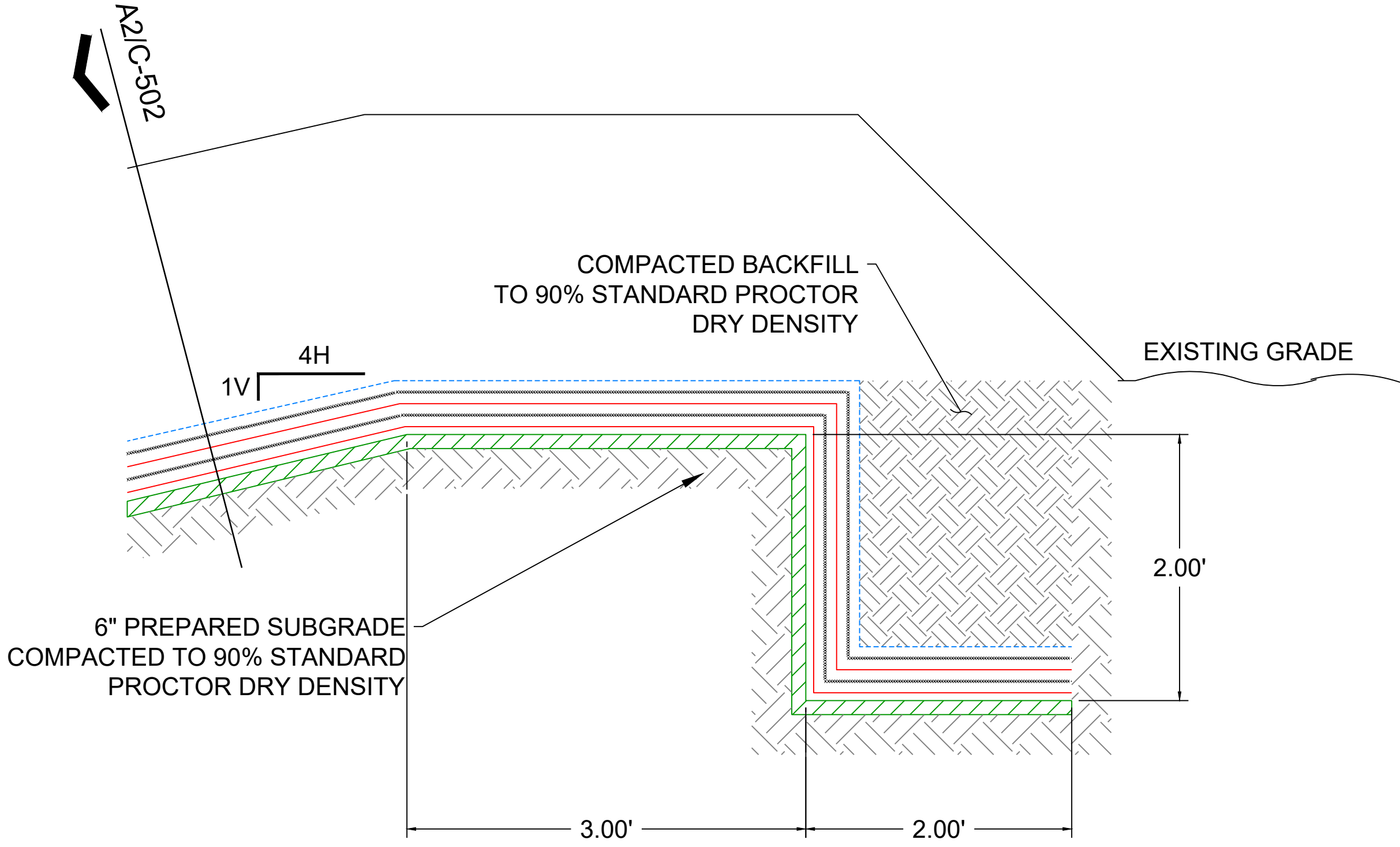
C-503

C1 CLEANOUT RISER TERMINATION WITH HEADWALL
NOT TO SCALE SECTION VIEW

C2 HEADWALL ELEVATION
NOT TO SCALE ELEVATION VIEW

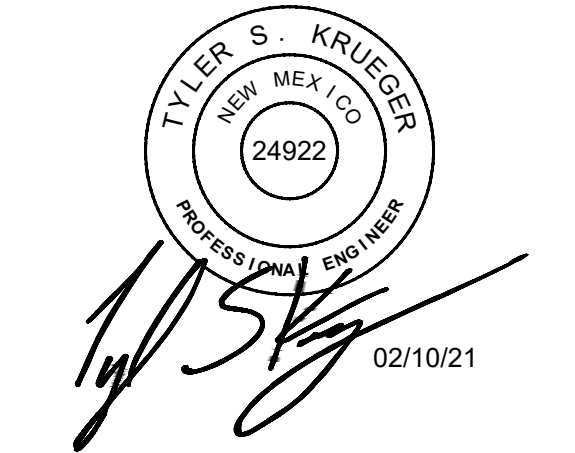


A1 GCL STORAGE PAD
NOT TO SCALE PLAN & SECTION VIEW



A2 PERMANENT ANCHOR TRENCH
NOT TO SCALE SECTION VIEW

Parkhill



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OWL NDBL SWMF
CELL 4AB
CONSTRUCTION PLANS



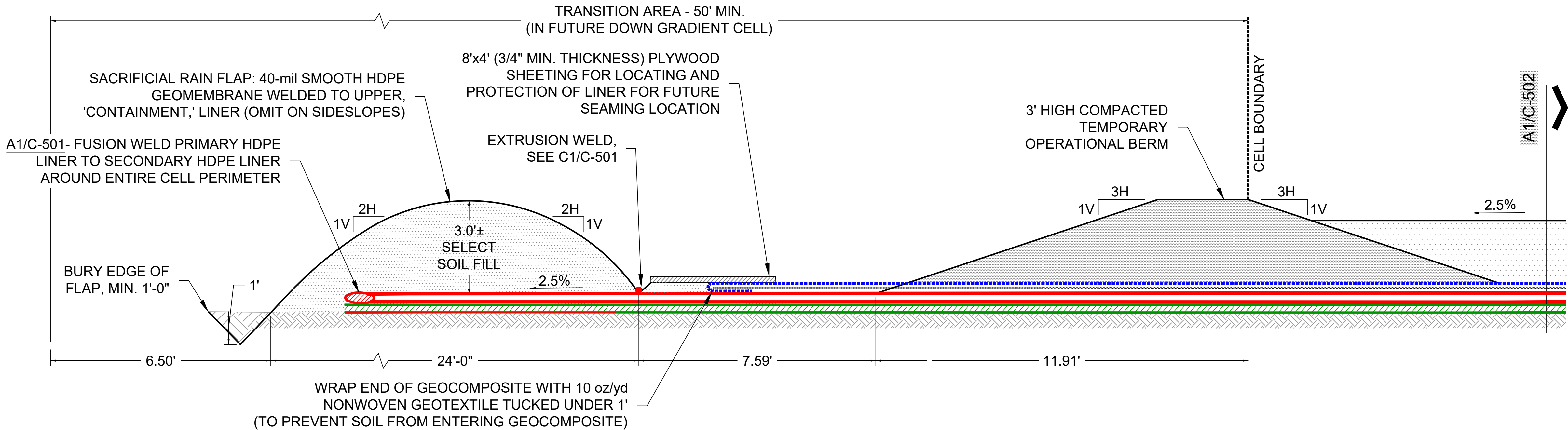
CLIENT
OWL LANDFILL
SERVICES, LLC.
2029 W. NM Hwy 128
JAL, NM 88252
LEA COUNTY

PROJECT NO.
6752.21

1	04/20/2022	Issued for OCD review
-	02/07/22	Issued for Client Review
#	DATE	DESCRIPTION

LANDFILL
ENGINEERING
DETAILS IV

C-504



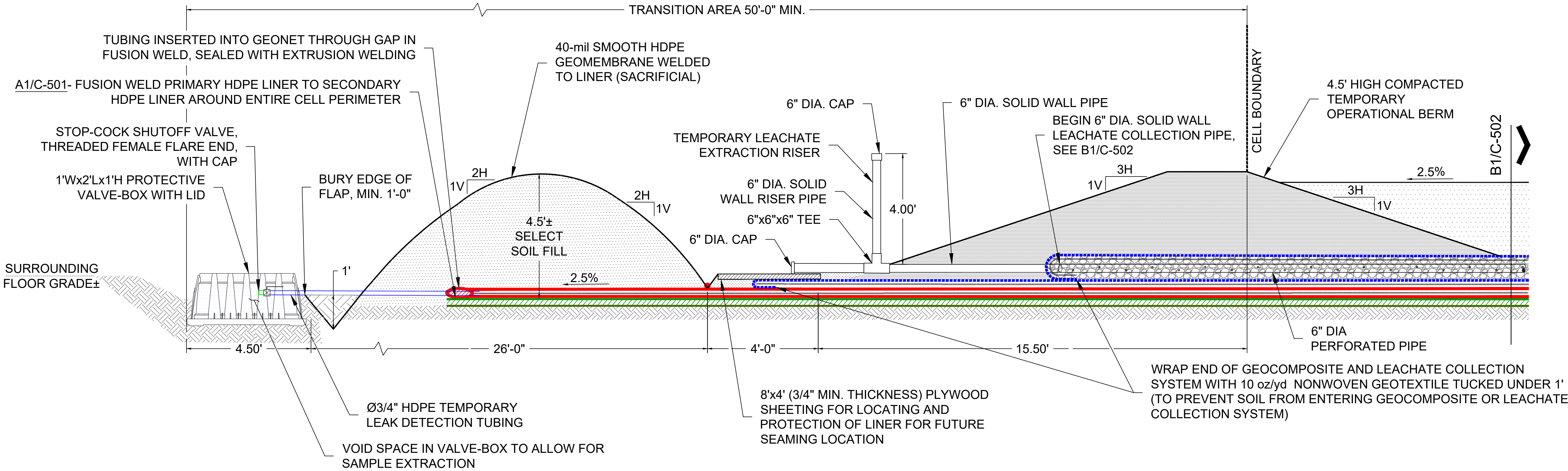
TEMPORARY INSTALLATION AT BOUNDARY BETWEEN CURRENT CELL AND ADJACENT FUTURE CELL

C1

TYPICAL CELL TRANSITION AREA

NOT TO SCALE

SECTION VIEW



TEMPORARY LEACHATE SUMP INSTALLATION AT BOUNDARY BETWEEN UPGRADIENT CELL AND DOWNGRADIENT FUTURE CELL.

A1

TEMPORARY SUMP DETAIL

NOT TO SCALE

SECTION VIEW

FILE NAME: A:\2020\6752.20\03_DSGN01_DWG\050_CIVIL\02_CONTENT\OWL Cell 4AB\DRAWINGS\C-504-675220-2-14.dwg LAYOUT NAME: C-504 PRINTED: Wednesday, April 20, 2022 - 10:18am USER: dmll



Transmittal

333 Rio Rancho Blvd. NE, Ste 400, Rio Rancho, NM 87124

PROJECT: 6759.21 OWL NDBL Cell 1B DATE: 5/16/2022
Construction Services
6759.21

SUBJECT: OWL Landfill Cell 3 A/B TRANSMITTAL ID: 00063
Certification Report

PURPOSE: For your use VIA: Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Pam Gonzales 333 Rio Rancho Blvd. NE, Ste 400 Rio Rancho NM 87124 United States	Parkhill, Smith & Cooper, Inc.	pgonzales@Parkhill.com	505.504.7753 x7753

TO

NAME	COMPANY	EMAIL	PHONE
Jim Griswold 1220 S. St. Francis Drive Santa Fe NM 87505 United States	Oil Conservation District	Jim.Griswold@state.nm.us	

REMARKS: Dear Mr. Griswold:

This submittal is provided as engineering certification for the construction of Landfill Cell 3 A/B at OWL Landfill Services, LLC (OWL), located in Lea County, New Mexico. If you have questions concerning this download, please contact Pam Gonzales at 505-401-3734.

DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	5/16/2022	OWL_Landfill_Cell3A-B_Construction_2022-05-16.pdf	

COPIES:

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Tyler Krueger (Parkhill, Smith & Cooper, Inc.)
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Tim Shreve

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Phone:(575) 748-1283 Fax:(575) 748-9720
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1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 110537

CONDITIONS

Operator: OWL LANDFILL SERVICES, LLC 8214 Westchester Drive Dallas, TX 75225	OGRID: 371820
	Action Number: 110537
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
bjones	None	5/25/2022