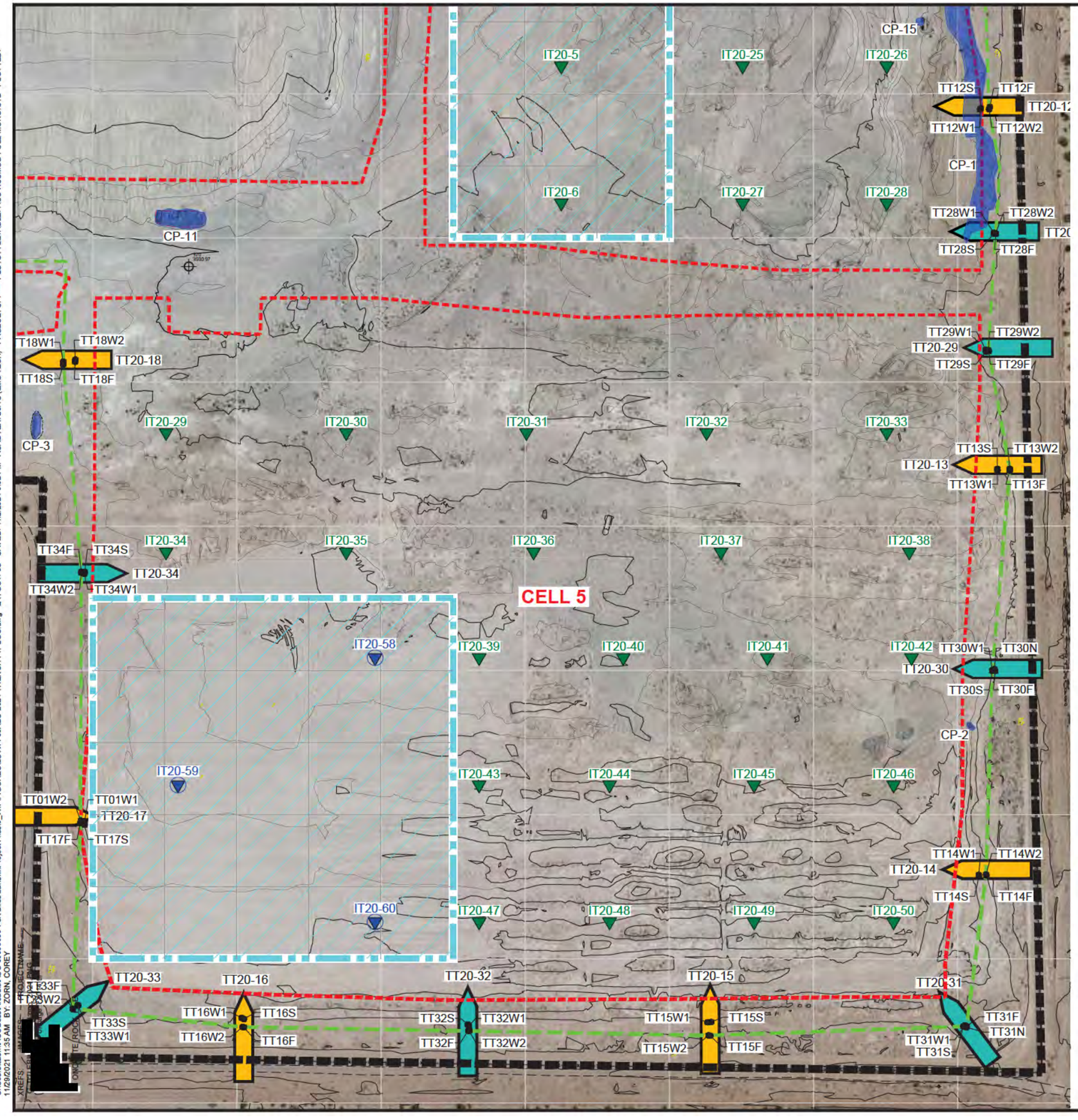
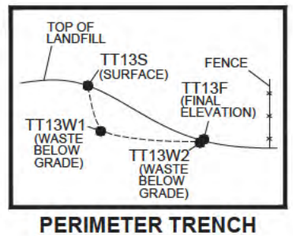


LEGEND

- LANDFILL PERMIT BOUNDARY
- APPROXIMATE CELL BOUNDARY (SUBTITLE D CELL)/ASSUMED CELL BOUNDARY (ALL OTHER CELLS BASED ON 2015 LOWI)
- TOPOGRAPHIC CONTOUR
- FENCE
- PARTIAL FILL
- INTERIOR TRENCH (50)
- INTERIOR TRENCH TIME PERMITTING (10)
- PERIMETER TRENCH (25)
- DATA GAP PERIMETER TRENCH (9)
- CONCRETE PILE (11)
- TT13W2 — TRENCH LOCATION POINT
- LIMITS OF WASTE 2021

ABBREVIATION LEGEND

IT	=	INTERNAL TRENCH
TT	=	PERIMETER TRENCH
S	=	GROUND SURFACE AT START OF PERIMETER TRENCH
F	=	GROUND SURFACE AT END OF PERIMETER TRENCH
W1	=	WASTE BELOW GRADE AT START OF PERIMETER TRENCH
W2	=	LIMIT OF WASTE BELOW GRADE WITHIN PERIMETER TRENCH
N	=	NO WASTE ENCOUNTERED
CP	=	CONCRETE PILE



PERIMETER TRENCH TYPICAL SECTION

NOT TO SCALE

MAY 2021 TRENCH LIMITS OF WASTE & DEPTH TO WASTE ELEVATIONS

ID	NORTHING	EAST NG	TOP OF WASTE ELEVATION	ID	NORTHING	EASTING	TOP OF WASTE ELEVATION
TT01W1	[redacted]	[redacted]	3926.5	TT18W1	[redacted]	[redacted]	3926.5
TT01W2	[redacted]	[redacted]	3926.9	TT18W2	[redacted]	[redacted]	3927.7
TT02W1	[redacted]	[redacted]	3925.3	TT19W1	[redacted]	[redacted]	3923.9
TT02W2	[redacted]	[redacted]	3925.4	TT19W2	[redacted]	[redacted]	3924.3
TT03W1	[redacted]	[redacted]	3930.8	TT20W1	[redacted]	[redacted]	3927.0
TT03W2	[redacted]	[redacted]	3928.3	TT20W2	[redacted]	[redacted]	3927.6
TT04W1	[redacted]	[redacted]	3929.4	TT21W1	[redacted]	[redacted]	3924.5
TT04W2	[redacted]	[redacted]	3927.7	TT21W2	[redacted]	[redacted]	3923.1
TT05W1	[redacted]	[redacted]	3933.3	TT22W1	[redacted]	[redacted]	3924.3
TT05W2	[redacted]	[redacted]	3928.5	TT22W2	[redacted]	[redacted]	3924.8
TT07W1	[redacted]	[redacted]	3927.1	TT23W1	[redacted]	[redacted]	3925.2
TT07W2	[redacted]	[redacted]	3925.5	TT23W2	[redacted]	[redacted]	3925.9
TT08W1	[redacted]	[redacted]	3923.8	TT24W1	[redacted]	[redacted]	3924.7
TT08W2	[redacted]	[redacted]	3924.0	TT24W2	[redacted]	[redacted]	3924.9
TT09W1	[redacted]	[redacted]	3925.3	TT25W1	[redacted]	[redacted]	3925.3
TT09W2	[redacted]	[redacted]	3923.7	TT25W2	[redacted]	[redacted]	3926.8
TT10W1	[redacted]	[redacted]	3924.3	TT26W1	[redacted]	[redacted]	3922.8
TT10W2	[redacted]	[redacted]	3924.1	TT26W2	[redacted]	[redacted]	3923.2
TT11W1	[redacted]	[redacted]	3922.5	TT27W1	[redacted]	[redacted]	3920.1
TT11W2	[redacted]	[redacted]	3921.6	TT27W2	[redacted]	[redacted]	3920.0
TT12W1	[redacted]	[redacted]	3921.0	TT28W1	[redacted]	[redacted]	3920.6
TT12W2	[redacted]	[redacted]	3920.1	TT28W2	[redacted]	[redacted]	3920.6
TT13W1	[redacted]	[redacted]	3918.7	TT29W1	[redacted]	[redacted]	3919.1
TT13W2	[redacted]	[redacted]	3918.4	TT29W2	[redacted]	[redacted]	3919.0
TT14W1	[redacted]	[redacted]	3919.9	TT30W1	[redacted]	[redacted]	3920.0
TT14W2	[redacted]	[redacted]	3919.4	TT31W1	[redacted]	[redacted]	3919.1
TT15W1	[redacted]	[redacted]	3918.2	TT32W1	[redacted]	[redacted]	3919.6
TT15W2	[redacted]	[redacted]	3917.3	TT32W2	[redacted]	[redacted]	3917.5
TT16W1	[redacted]	[redacted]	3919.8	TT33W1	[redacted]	[redacted]	3918.6
TT16W2	[redacted]	[redacted]	3919.1	TT33W2	[redacted]	[redacted]	3918.7
TT17W1	[redacted]	[redacted]	3923.1	TT34W1	[redacted]	[redacted]	3922.8
TT17W2	[redacted]	[redacted]	3922.2	TT34W2	[redacted]	[redacted]	3924.7

NOTES:

1. BEARING BASIS AND COORD NATE VALUES ARE UNIVERSAL TRANSVERSE MERCATOR, ZONE 13 NORTH, NORTH AMERICAN DATUM OF 1983.
2. MAP SOURCE: AEROTECH MAPPING, NC. FLIGHT DATE: FEBRUARY 22, 2018 FOR LAND-MARK PROFESSIONAL SURVEYING, NC.

0 75' 150'
GRAPHIC SCALE

FORT BLISS LANDFILL
FORT BLISS, TEXAS
FINAL LIMITS OF WASTE INVESTIGATION REPORT

2021 LIMITS OF WASTE & TRENCH WASTE ELEVATIONS

[redacted]

FIGURE
3C

C:\Users\vzorn\ACCDocs\Arcadis\AUS-30056969-Fort Bliss Landfill\Project Files\0_WIP\FIGURES\LOWI-F03ABC-2021 TRENCH PIT LOC.dwg LAYOUT: 3C SAVED: 11/2/2021 5:52 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: AUS-NCSMOD FULL MONO.CTB PLOTTED: 11/29/2021 11:35 AM BY: ZORN, COREY
XREFS: [redacted] PROJECTNAME: Fort Bliss Landfill

This page intentionally left blank.

APPENDICES

This page intentionally left blank.

Appendix A – Field Forms

A1. Perimeter Trench Logs
A2. Interior Trench Logs
A3. Daily Quality Control Reports
A4. Field Activity Reports
A5. Tail Gate Safety Meeting Forms

This page intentionally left blank.

A1. Perimeter Trench Logs

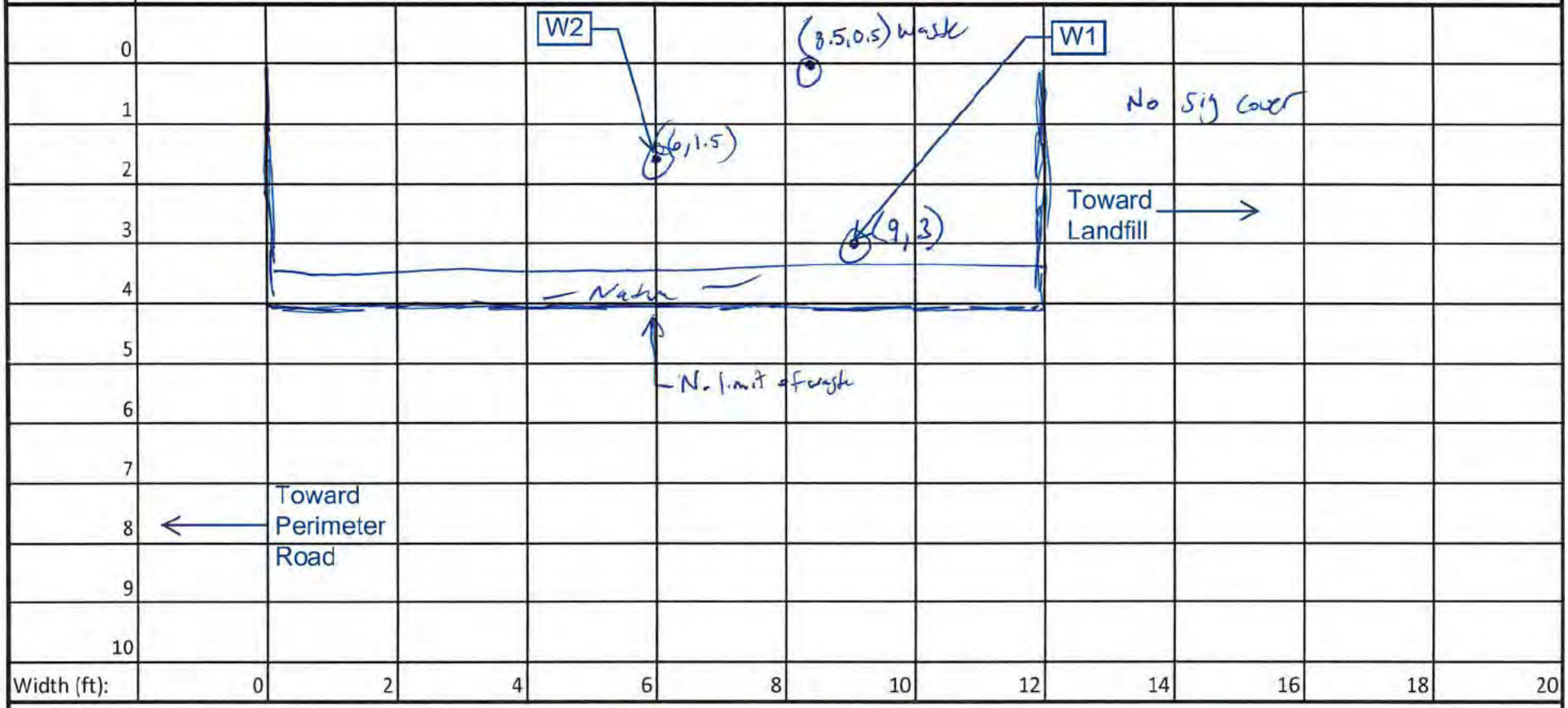
This page intentionally left blank.

[redacted]

Test Trench Log - Fort Bliss Landfill - Perimeter X or Interior ____

Project Name and No. MSWLF Limit of Waste Investigation - Fort Bliss, Texas		Test Pit No. TT20-01	Direction Advanced South
Date Excavated: ~~5/11/21~~ 5/11/21	Weather: clear sunny breezy		
Date Backfilled ~~5/11/21~~ 5-14-21	Weather: clear sunny breezy	Start Location: N____ E____ El.____	
Contractor: [redacted]	Machine: Case 580N -		
Operator: [redacted]	Bucket Width: 2 ft	Logged By: DMS	

Depth (ft): Sketch - Clearly locate and label: 1) depth to waste; 2) limit of waste; 3) materials encountered; 4) soil characteristics; 5) other observations



Width (ft):	0	2	4	6	8	10	12	14	16	18	20

USCS characterization of soils encountered: gravelly CLay (CL) overly caliche @ ~3.5 ft. Sample Taken: —

GPS coordinates of (limit of waste) or depth to waste (circle): N____ E____ EL.____ Trimble Unit No.____

N ←

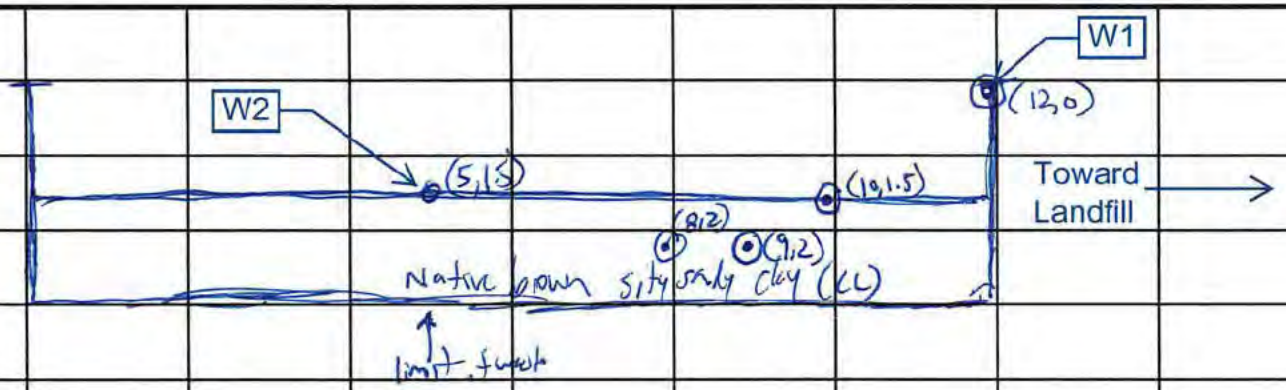
Preliminary field notes with approximate hand measurements.
Survey at a later date used for landfill design purposes.

[redacted]

Test Trench Log - Fort Bliss Landfill - Perimeter X or Interior ____

Project Name and No. MSWLF Limit of Waste Investigation - Fort Bliss, Texas		Test Pit No. TT20-02	Direction Advanced N
Date Excavated: 5/11/21	Weather: clear sunny breezy		
Date Backfilled: ~~5/11/21~~ 5-14-21 DMS	Weather: clear sunny breezy	Start Location: N____ E____ El.____	
Contractor: [redacted]	Machine: Case 580 N		
Operator: [redacted]	Bucket Width: 2	Logged By: DMS	

Depth (ft): Sketch - Clearly locate and label: 1) depth to waste; 2) limit of waste; 3) materials encountered; 4) soil characteristics; 5) other observations



Depth (ft):	0	2	4	6	8	10	12	14	16	18	20
Width (ft):											

USCS characterization of soils encountered: Cover - gravelly sand w/ clay (SW) Sample Taken: —

GPS coordinates of limit of waste or depth to waste (circle): N____ E____ EL.____ Trimble Unit No.____

N

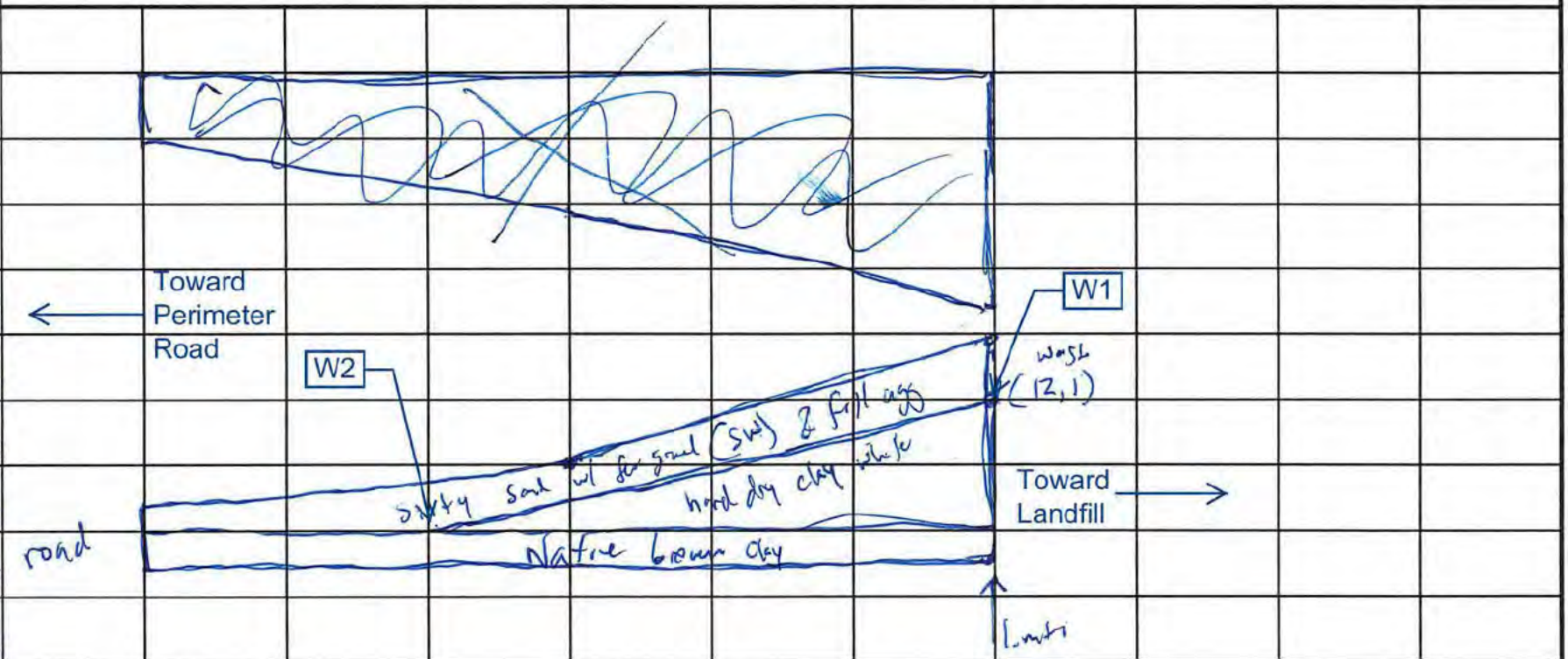
Preliminary field notes with approximate hand measurements.
Survey at a later date used for landfill design purposes.

[redacted]

Test Trench Log - Fort Bliss Landfill - Perimeter _x_ or Interior ____

Project Name and No. MSWLF Limit of Waste Investigation - Fort Bliss, Texas		Test Pit No. TT20-03	Direction Advanced North
Date Excavated: 5/11/21	Weather: clear breezy		
Date Backfilled DMS ~~5/11/21~~ 5-14-21	Weather: clear breezy	Start Location: N____ E____ El.____	
Contractor: [redacted]	Machine: Case 580 N		
Operator: [redacted]	Bucket Width: 2 ft	Logged By: DMS	

Depth (ft): Sketch - Clearly locate and label: 1) depth to waste; 2) limit of waste; 3) materials encountered; 4) soil characteristics; 5) other observations



Width (ft): 0 2 4 6 8 10 12 14 16 18 20

USCS characterization of soils encountered: Native brown clay / hard dry clay / SW w/ asphalt & misc fill Sample Taken: No

GPS coordinates of limit of waste or depth to waste (circle): N____ E____ EL.____ Trimble Unit No.____

N

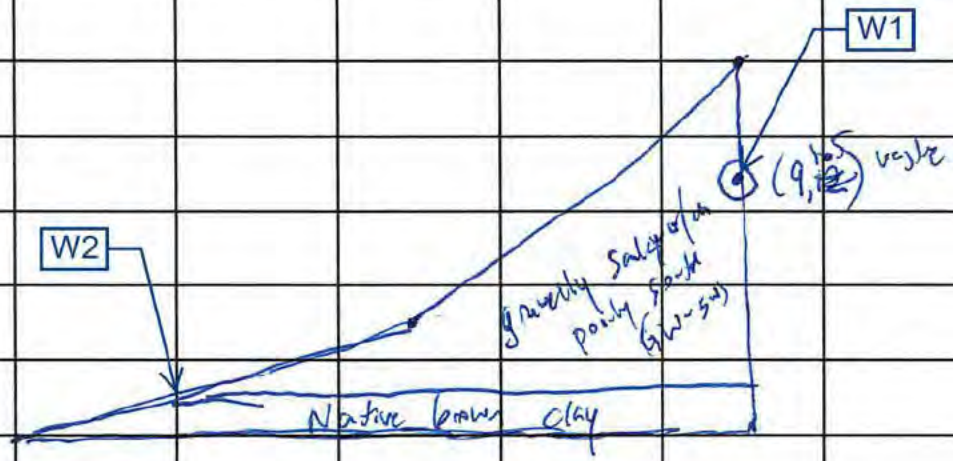
Preliminary field notes with approximate hand measurements.
Survey at a later date used for landfill design purposes.

[redacted]

Test Trench Log - Fort Bliss Landfill - Perimeter X or Interior ____

Project Name and No. MSWLF Limit of Waste Investigation - Fort Bliss, Texas		Test Pit No. TT20-04	Direction Advanced North
Date Excavated: 5/11/21	Weather: clear, breezy		
Date Backfilled: ~~5/12/21~~ 5-14-21	Weather: clear, breezy	Start Location: N____ E____ El.____	
Contractor: [redacted]	Machine: Case 590N		
Operator: [redacted]	Bucket Width: 2 ft	Logged By: DMS	

Depth (ft): Sketch - Clearly locate and label: 1) depth to waste; 2) limit of waste; 3) materials encountered; 4) soil characteristics; 5) other observations



Depth (ft):	0	2	4	6	8	10	12	14	16	18	20
Width (ft):											

USCS characterization of soils encountered: Native brown clay @ base / GW-SW gravelly Sand Sample Taken: ✓

GPS coordinates of (limit of waste) or depth to waste (circle): N____ E____ EL.____ Trimble Unit No.____

N

Preliminary field notes with approximate hand measurements.
Survey at a later date used for landfill design purposes.