



May 30, 2024

Victoria Venegas
Environmental Specialist
New Mexico Oil Conservation Division
506 W. Texas Ave.
Artesia, NM 88210

Re: Permit Modification Request for the Select Water Solutions Northcutt Recycle Facility

Ms. Venegas,

Select Energy Services (OGRID # 289068) would like to submit a permit modification request for the Northcutt Recycle Facility. Prior to construction, the size of the recycle containments design was modified to increase the capacity of the storage pits. Select Energy Services is requesting this permit modification to update the original Northcutt Permit application to reflect larger storage containments.

All setbacks required by NMAC 19.15.34.11 are still met. No changes to the operating plans, maintenance plans, monitoring plans, or closure plans were made. Select intends to comply with all variances granted and all previously approved permit conditions. The only deviation from the original permit will be the size of the earthen storage containments.

Enclosed in the package are all necessary documents that were affected by the change in size of the storage containments along with new C-147 forms for each pit with the Modification box marked.

- Updated C-147 form for North and South Storage containments with Modification Box Checked
- Engineering Drawings
- Updated Closure Cost Estimate

Thank you for your consideration.

Best regards,

ENVIROTECH ENGINEERING & CONSULTING, INC.

A handwritten signature in blue ink, appearing to read "Mitchell Ratke".

Mitchell Ratke, P.E.
Project Engineer/Project Manager



5-322024

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-147
Revised April 3, 2017

Recycling Facility and/or Recycling Containment

Type of Facility: ☒ Recycling Facility ☒ Recycling Containment*
Type of action: ☐ Permit ☐ Registration
☒ Modification ☐ Extension
☐ Closure ☐ Other (explain) _____

* 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: Select Energy Services, LLC. (For multiple operators attach page with information) OGRID #: 289068
Address: 1820 North I-35, Gainseville, TX 76240
Facility or well name (include API# if associated with a well): Northcutt Recycle Facility-North Storage Pit
OCD Permit Number: 1RF-523 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr _____ Section 9 Township 19 South Range 35 East County: Lea County, NM
Surface Owner: ☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment

2.

☒ **Recycling Facility:**

Location of recycling facility (if applicable): Latitude 32.679989° Longitude -103.467891° NAD83

Proposed Use: ☒ Drilling* ☒ Completion* ☒ Production* ☒ 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.*

☐ Fluid Storage

☐ Above ground tanks ☒ 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.

☒ **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 32.679560° Longitude -103.464501° NAD83

☐ For multiple or additional recycling containments, attach design and location information of each containment

☒ Lined ☐ Liner type: Thickness 60/40 mil ☐ LLDPE ☒ HDPE ☐ PVC ☐ Other _____

☐ String-Reinforced

Liner Seams: ☒ Welded ☐ Factory ☐ Other _____ Volume: 1,046,465 bbl Dimensions: L 1090 x W 460 x D 21

☐ Recycling Containment Closure Completion Date: _____

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 \$ 2,475,659.48 (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 8-ft Wire Mesh Game Fence

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.

General siting**Ground water is less than 50 feet below the bottom of the Recycling Containment.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☒ No
☐ 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.

☐ Yes ☒ No
☐ NA

- Written confirmation or verification from the municipality; written approval obtained from the municipality

Within the area overlying a subsurface mine.

☐ Yes ☒ No

- Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division

Within an unstable area.

☐ Yes ☒ No

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map

Within a 100-year floodplain. FEMA map

☐ Yes ☒ 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).

☐ Yes ☒ No

- Topographic map; visual inspection (certification) of the proposed site

Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.

☐ Yes ☒ No

- Visual inspection (certification) of the proposed site; aerial photo; satellite image

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.

☐ Yes ☒ No

- NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site

Within 500 feet of a wetland.

☐ Yes ☒ No

- US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site

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): John McGillis Title: SR VP TRE
Signature: [Signature] Date: 5-31-2024
e-mail address: JMcGillis@Selectwater.com Telephone: 713-806-0488

11.

OCD Representative Signature: _____ Approval Date: _____

Title: _____ OCD Permit Number: _____

- ☐ OCD Conditions
☐ Additional OCD Conditions on Attachment

District I
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811 S. First St., Artesia, NM 88210
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11.

OCD Representative Signature: _____ Approval Date: _____

Title: _____ OCD Permit Number: _____

- ☐ OCD Conditions
☐ Additional OCD Conditions on Attachment

NORTHCUTT RECYCLE FACILITY

SELECT ENERGY SERVICES, LLC

SECTION 9, TOWNSHIP 19 SOUTH, RANGE 35 EAST

32.679989° , -103.467891°

N 32° 40' 47.9598" , W 103° 28' 4.4076"

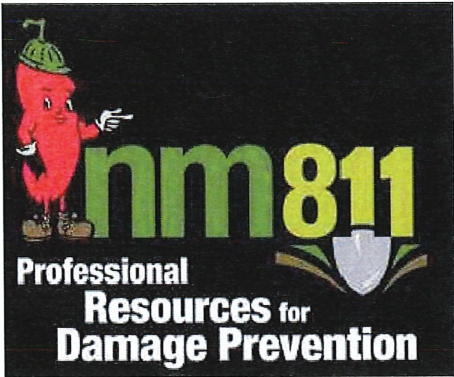


CONTACTS

JOHN MCGILLIS - SELECT ENERGY SERVICES, LLC - (713)-806-0488

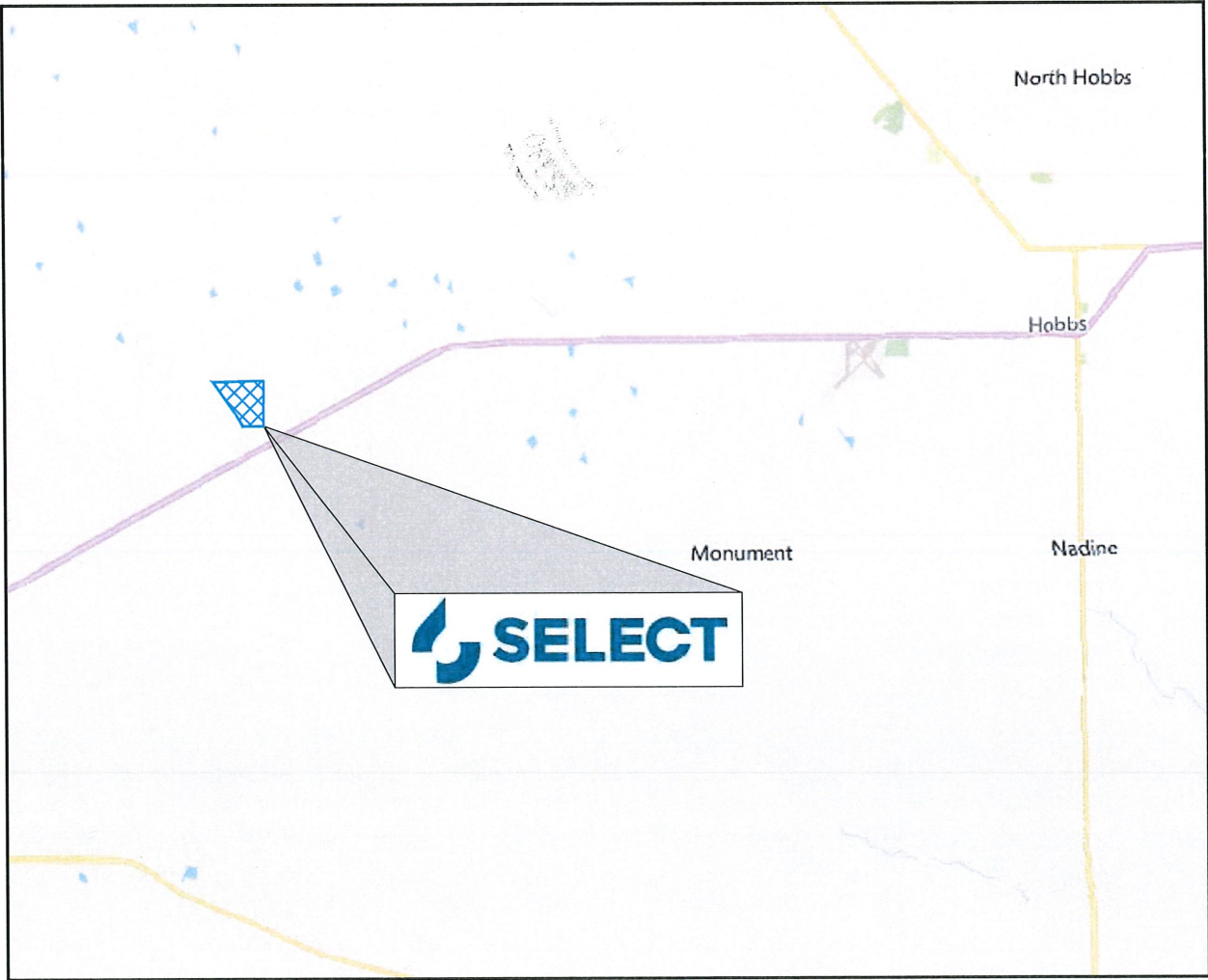
ENVIROTECH ENGINEERING & CONSULTING - ROSHAN MOHAN, EIT (580)-234-8780
(DESIGN ENGINEER)

ENVIROTECH ENGINEERING & CONSULTING - MITCHELL RATKE, PE (580)-234-8780
(DESIGN ENGINEER)



UTILITY CAUTION

THE CONTRACTOR IS CAUTIONED THE LOCATION AND DEPTH OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON PUBLICLY AVAILABLE RECORDS OF THE VARIOUS UTILITY COMPANIES AND FIELD MEASUREMENTS. THE INFORMATION PROVIDED IS NOT TO BE RELIED ON AS BEING PRECISE OR COMPLETE. THE CONTRACTOR MUST CONTACT THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.

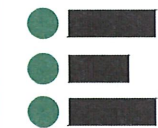


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SHEET NO.	DESCRIPTION
1	COVER
2	PROJECT LOCATION
3	EXISTING SITE FEATURES
4	SITE PLAN
5	TREATMENT PIT PLAN
6	PIT CAPACITIES
7	RUB SHEET & FENCE PLAN
8	CROSS SECTIONS A & B
9	CROSS SECTIONS C & D
10	CROSS SECTION E
11	SUMP DETAILS
12	LINER DETAILS
13	FENCE DETAILS
14	STORAGE PIT DRAINAGE DETAIL



2500 N. Eleventh Street Enid, OK 73701 • 580.234.8780 • envirotechconsulting.com
License #29736 - Expiration Data: 12-31-2024



2500 North Eleventh Street
Enid, Oklahoma
500.234.8700

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NO.	DATE	DESCRIPTION

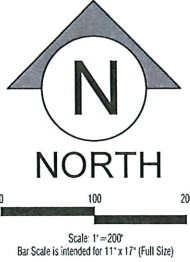
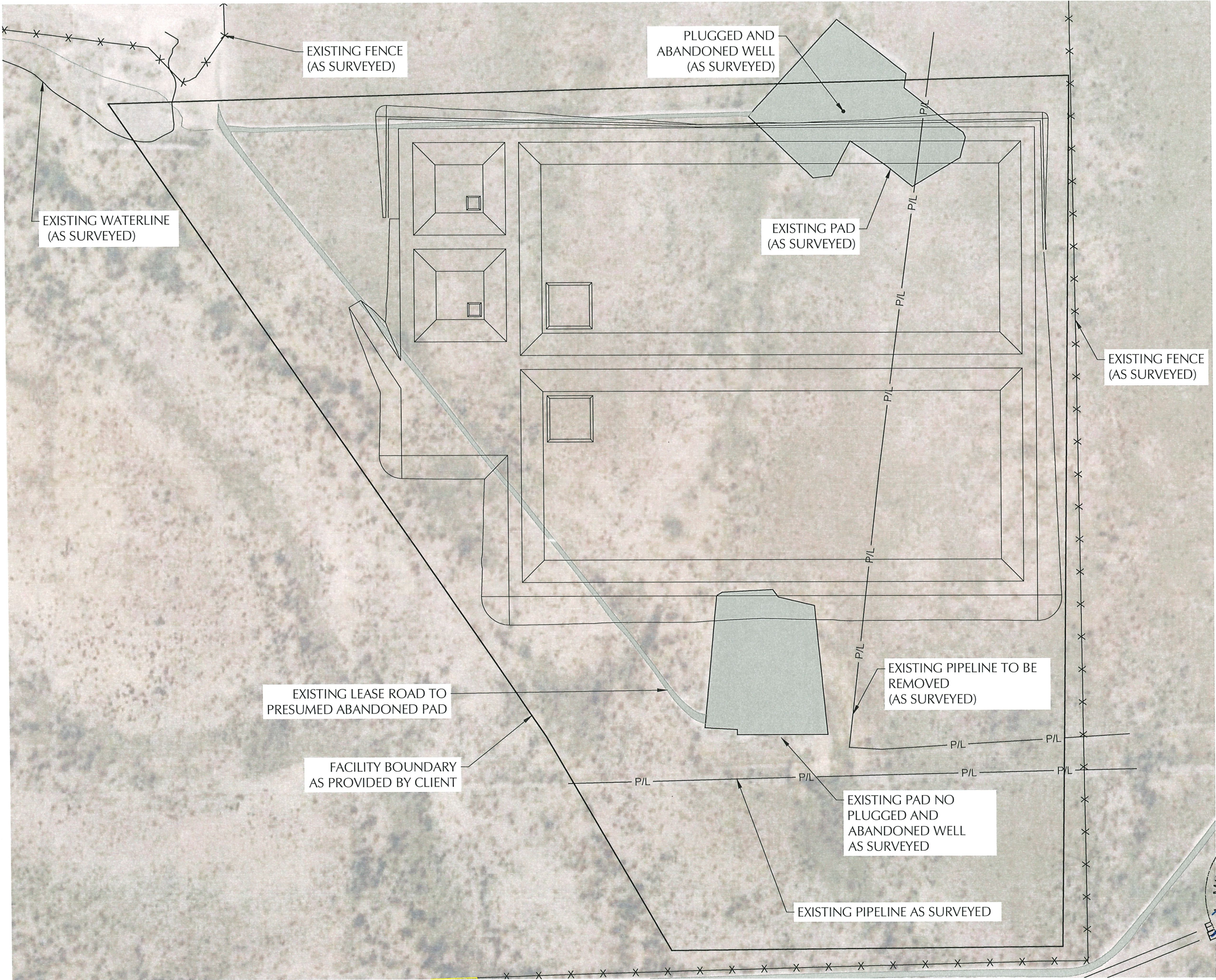



PROJECT LOCATION
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
TOWN/SHIPLEY 10 SOUTH RANCE E EAST
SECTION 09

DATE:	May
SCALE:	NOT TO SCALE
DESIGNED BY:	R. MOORE
DRAWN BY:	K. TALAMON
CHECKED BY:	M. R. MOORE
PROJECT NO.	02411
SHEET NO.	2 OF 2



5-36-2024





**ENVIROTECH
ENGINEERING**
2309 North Elmwood Street
Enid, Oklahoma
509.234.8700
envirotechconsulting.com
PE #29736 - Expiration Date: 12-31-2024

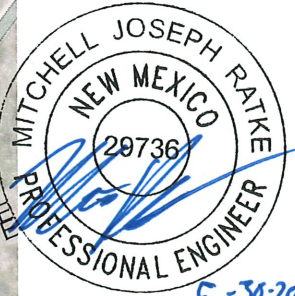
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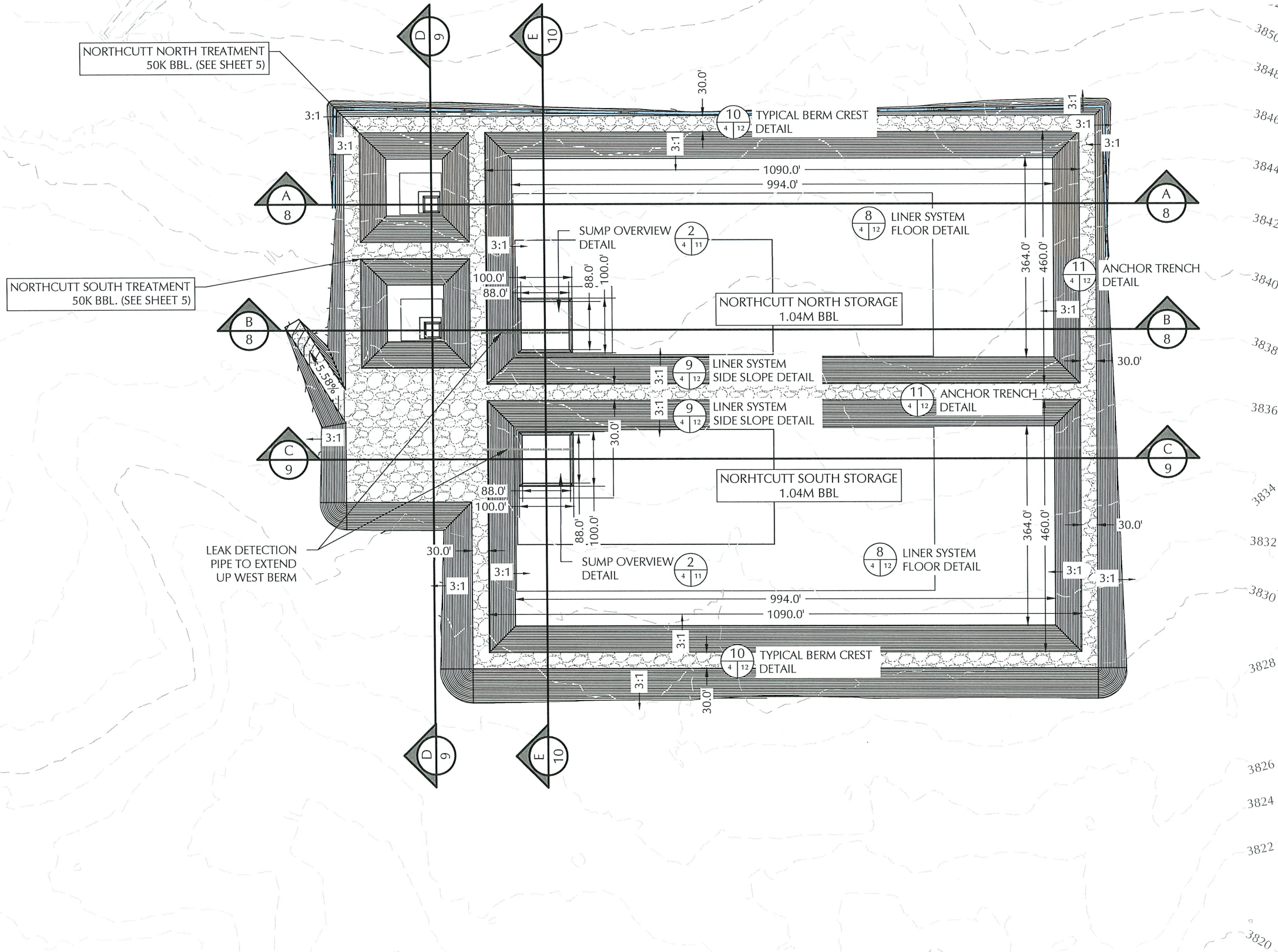
NO.	DATE	DESCRIPTION



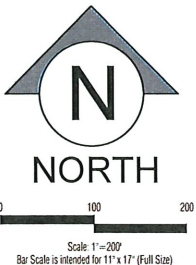
EXISTING SITE FEATURES
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	1" = 200'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	3 OF 14





DETAIL NUMBER
SHEET NUMBER WHERE
DETAIL IS LOCATED
WITHIN SET
SHEET NUMBER
WHERE DETAIL CALLOUT IS
LOCATED ON PLAN SHEET



ENVIROTECH
ENGINEERING
2300 North Eleventh Street
Oklahoma City, Oklahoma
73104-2348
envirotechconsulting.com
PE #29736 - Expiration Date: 12-31-2024

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NO.	DATE	DESCRIPTION

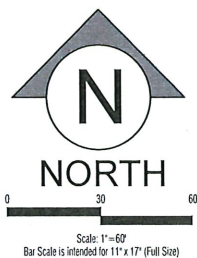


SITE PLAN
NORTH CUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

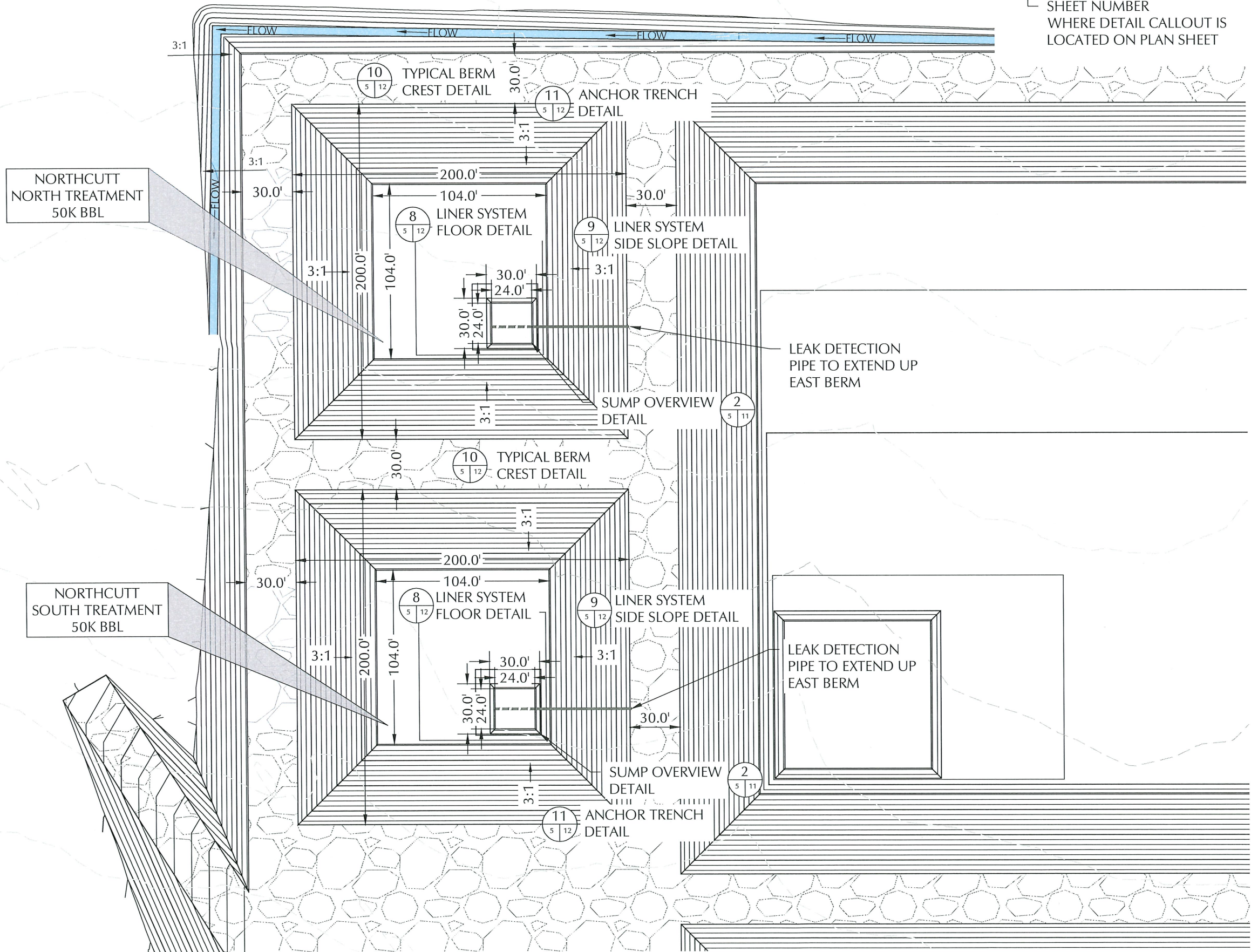


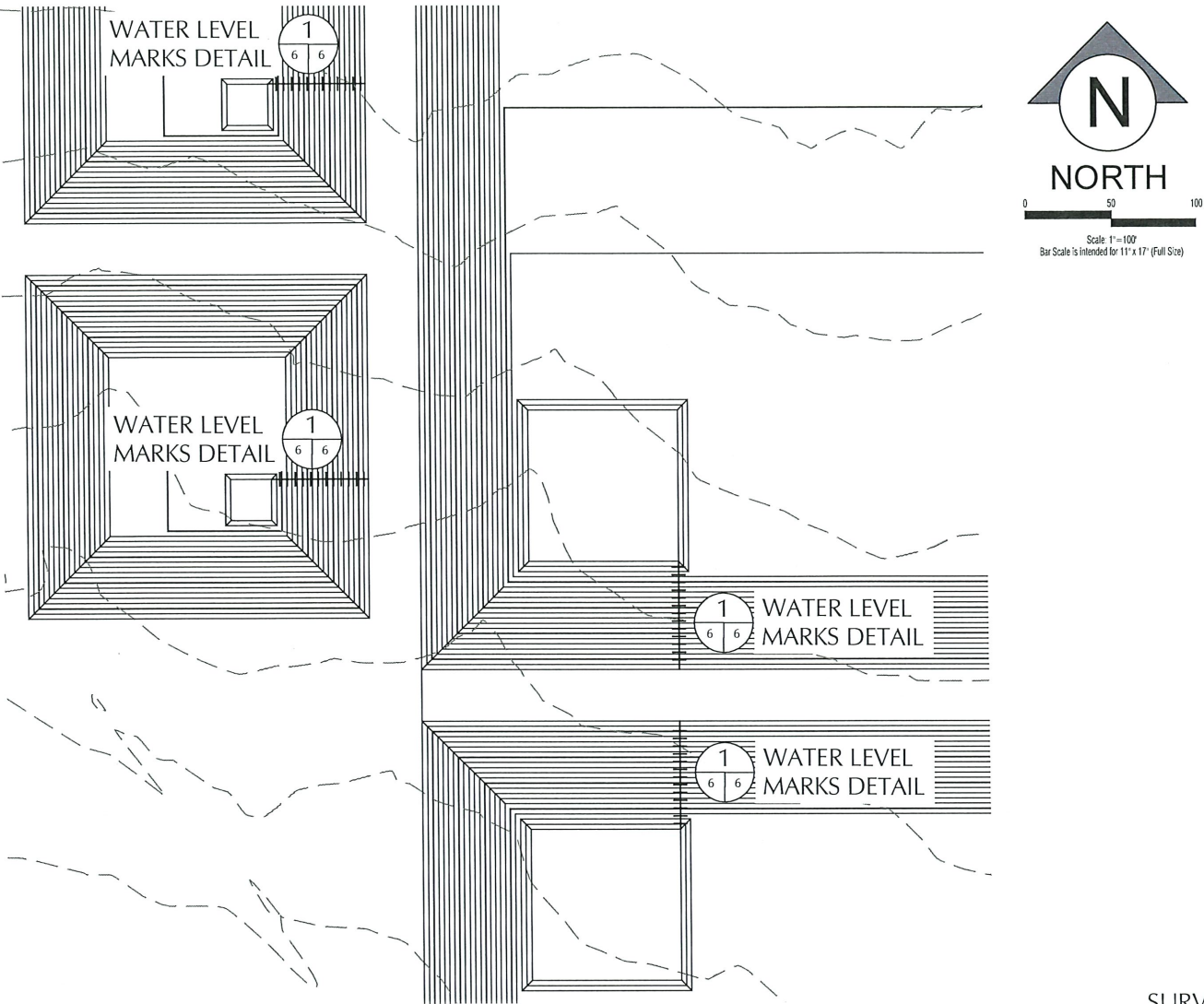
5-30-2024

DATE:	May 2024
SCALE:	1" = 200'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	4 OF 14



 <p>ENVIROTECH ENGINEERING</p> <p>2500 North Eleventh Street Tulsa, Oklahoma 580.234.8700 envirotechconsulting.com</p> <p>PE #29736 - Expiration Date: 12-31-2024</p>		
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NO.	DATE	DESCRIPTION
		
<h2>TREATMENT PIT PLAN</h2> <h2>NORTHCUTT RECYCLE FACILITY</h2> <h2>SELECT ENERGY SERVICES, LLC</h2> <p>PERMIT MODIFICATION</p> <p>SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO</p>		
DATE:		May 2024
SCALE:		1" = 60'
DESIGNED BY:		R. MOHAN
DRAWN BY:		K. TALBOTT
CHECKED BY:		M. RATKE
PROJECT NO.		024180-00
SHEET NO.		5 OF 14



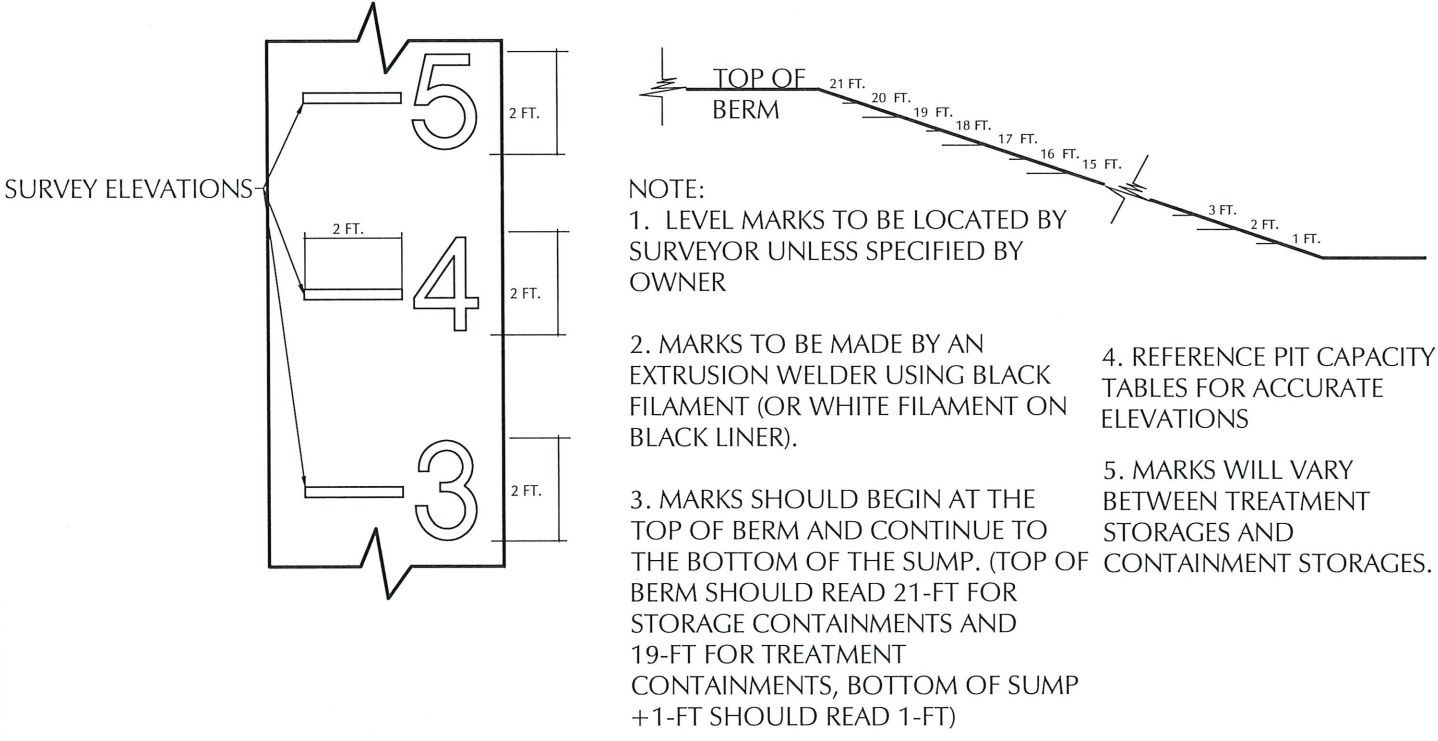


Site Owner	Select Energy Services, LLC			
Site Name	Northcutt Storage Containments			
Lagoon Features	Top	Bottom	Max	Freeboard
Side slope Ratio	3		3	Maximum Capacity
Maximum Depth (ft)	21.0		18.0	Storage Volume
Lagoon Top Width (ft)	460	364	442	Floor
Lagoon Top Length (ft)	1090	704	1072	Sump
Maximum Total Vol (ft³)	7,337,583		5,875,090	
Maximum Total Vol (bbls)	1,306,963		1,046,465	

Elevation	Lagoon Liq	Storage	Remaining	Gallons	BBLS	Percent of	Vol	Gallons	Vol	Vol	Percent
ft	Depth	ft	Stor Vol	Storage	Storage	Total Volume	in lagoon	Storage	in Lagoon	in Lagoon	Total Vol
	ft		ft³	gal	bbls	%	ft³	gal	bbls	ac-ft	%
3847.75	21.0	0.0	-	-	-	0.0%	7,337,583	54,892,459	1,306,963	168.45	100%
3846.75	20.0	1.0	496,696	3,715,781	88,471	6.8%	6,840,887	51,176,678	1,218,492	157.05	93%
3845.75	19.0	2.0	984,164	7,362,535	175,298	13.4%	6,353,419	47,529,925	1,131,665	143.85	87%
3844.75	18.0	3.0	1,462,494	10,940,914	260,498	19.9%	5,875,090	43,951,545	1,046,465	134.87	80%
3843.75	17.0	4.0	1,931,718	14,451,181	344,076	26.3%	5,405,865	40,441,278	962,888	124.10	74%
3842.75	16.0	5.0	2,391,952	17,894,195	426,052	32.6%	4,945,631	36,998,264	880,911	113.54	67%
3841.75	15.0	6.0	2,843,224	21,270,159	506,432	38.7%	4,494,359	33,622,301	800,531	103.18	61%
3840.75	14.0	7.0	3,285,641	24,579,879	585,235	44.8%	4,051,942	30,312,580	721,728	93.02	55%
3839.75	13.0	8.0	3,719,257	27,823,761	662,470	50.7%	3,618,326	27,068,699	644,493	83.07	49%
3838.75	12.0	9.0	4,144,153	31,002,409	738,153	56.5%	3,193,430	23,890,050	568,811	73.31	44%
3837.75	11.0	10.0	4,560,410	34,116,430	812,296	62.2%	2,777,173	20,776,029	494,667	63.76	38%
3836.75	10.0	11.0	4,968,083	37,166,228	884,910	67.7%	2,369,500	17,726,231	422,053	54.40	32%
3835.75	9.0	12.0	5,367,225	40,152,207	956,005	73.1%	1,970,359	14,740,253	350,958	45.23	27%
3834.75	8.0	13.0	5,757,970	43,075,376	1,025,604	78.5%	1,579,613	11,817,084	281,359	36.26	22%
3833.75	7.0	14.0	6,140,320	45,935,735	1,093,708	83.7%	1,197,263	8,956,724	213,255	27.49	16%
3832.75	6.0	15.0	6,514,382	48,734,093	1,160,336	88.8%	823,201	6,158,366	146,628	18.90	11%
3831.75	5.0	16.0	6,880,237	51,471,055	1,225,501	93.8%	457,346	3,421,404	81,462	10.50	6%
3830.75	4.0	17.0	7,152,793	53,510,043	1,274,049	97.5%	184,790	1,382,416	32,915	4.24	3%
3829.75	3.0	18.0	7,281,863	54,475,614	1,297,038	99.2%	55,721	416,845	9,925	1.28	1%
3828.75	2.0	19.0	7,319,900	54,760,176	1,303,814	99.8%	17,683	132,284	3,150	0.41	0%
3827.75	1.0	20.0	7,329,322	54,830,660	1,305,492	99.9%	8,261	61,800	1,471	0.19	0%
3826.75	0.0	21.0	7,337,583	54,892,459	1,306,963	100.0%	-	-	-	-	0%

Site Owner	Select Energy Services, LLC			
Site Name	Northcutt Treatment Containments			
Lagoon Features	Top	Bottom	Max	Freeboard
Side slope Ratio	3		3	Maximum Capacity
Maximum Depth (ft)	19.0		16.0	Storage Volume
Lagoon Top Width (ft)	200	104	182	Floor
Lagoon Top Length (ft)	200	104	182	Sump
Maximum Total Vol (ft³)	392,543		283,028	
Maximum Total Vol (bbls)	69,919		50,413	

Elevation	Lagoon Liq	Storage	Remaining	Gallons	BBLS	Percent of	Vol	Gallons	Vol	Vol	Percent
ft	Depth	ft	Stor Vol	Storage	Storage	Total Volume	in lagoon	Storage	in Lagoon	in Lagoon	Total Vol
	ft		ft³	gal	bbls	%	ft³	gal	bbls	ac-ft	%
3847.75	19.0	0.0	-	-	-	0.0%	392,543	2,936,611	69,919	9.01	100%
3846.75	18.0	1.0	38,810	290,338	6,913	9.9%	353,733	2,646,274	63,007	8.12	90%
3845.75	17.0	2.0	75,290	563,246	13,411	19.2%	317,252	2,373,365	56,509	7.28	81%
3844.75	16.0	3.0	109,515	819,279	19,507	27.9%	283,028	2,117,332	50,413	6.50	72%
3843.75	15.0	4.0	141,555	1,058,975	25,214	36.1%	250,987	1,877,636	44,706	5.76	64%
3842.75	14.0	5.0	171,484	1,282,874	30,545	43.7%	221,058	1,653,737	39,375	5.07	56%
3841.75	13.0	6.0	199,373	1,491,513	35,512	50.8%	193,169	1,445,099	34,407	4.43	49%
3840.75	12.0	7.0	225,295	1,685,431	40,129	57.4%	167,248	1,251,181	29,790	3.84	43%
3839.75	11.0	8.0	249,321	1,865,167	44,409	63.5%	143,222	1,071,444	25,511	3.29	36%
3838.75	10.0	9.0	271,522	2,031,259	48,363	69.2%	121,020	905,352	21,556	2.78	31%
3837.75	9.0	10.0	291,972	2,184,246	52,006	74.4%	100,570	752,366	17,913	2.31	26%
3836.75	8.0	11.0	310,743	2,324,667	55,349	79.2%	81,800	611,945	14,570	1.88	21%
3835.75	7.0	12.0	327,905	2,453,059	58,406	83.5%	64,637	483,553	11,513	1.48	16%
3834.75	6.0	13.0	343,532	2,569,961	61,190	87.5%	49,011	366,650	8,730	1.13	12%
3833.75	5.0	14.0	357,695	2,675,913	63,712	91.1%	34,848	260,698	6,207	0.80	9%
3832.75	4.0	15.0	370,466	2,771,453	65,987	94.4%	22,077	165,159	3,932	0.51	6%
3831.75	3.0	16.0	381,917	2,857,118	68,027	97.3%	10,626	79,493	1,893	0.24	3%
3830.75	2.0	17.0	389,343	2,912,673	69,349	99.2%	3,200	23,938	570	0.07	1%
3829.75	1.0	18.0	391,810	2,931,132	69,789	99.8%	732	5,479	130	0.02	0%
3828.75	0.0	19.0	392,543	2,936,611	69,919	100.0%	-	-	-	-	0%



WATER LEVEL MARKS DETAIL
NOT TO SCALE



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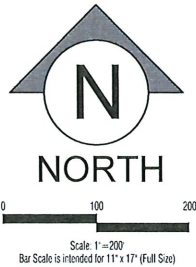
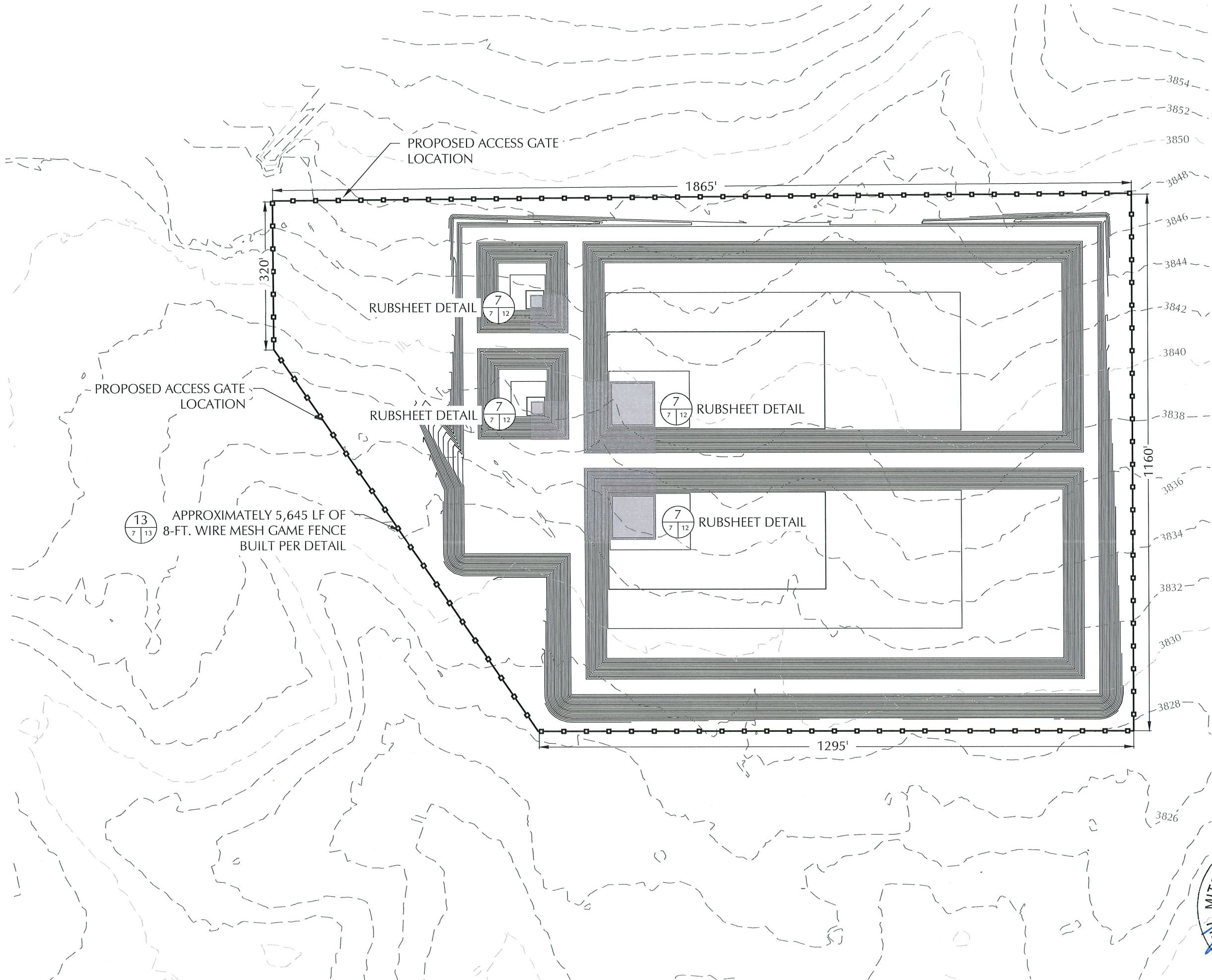
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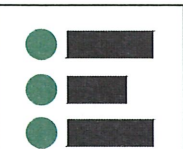
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SELECT

PIT CAPACITIES
NORTHCU T RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	1" = 100'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	6 OF 14





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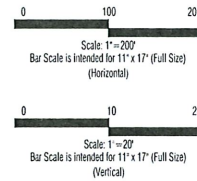
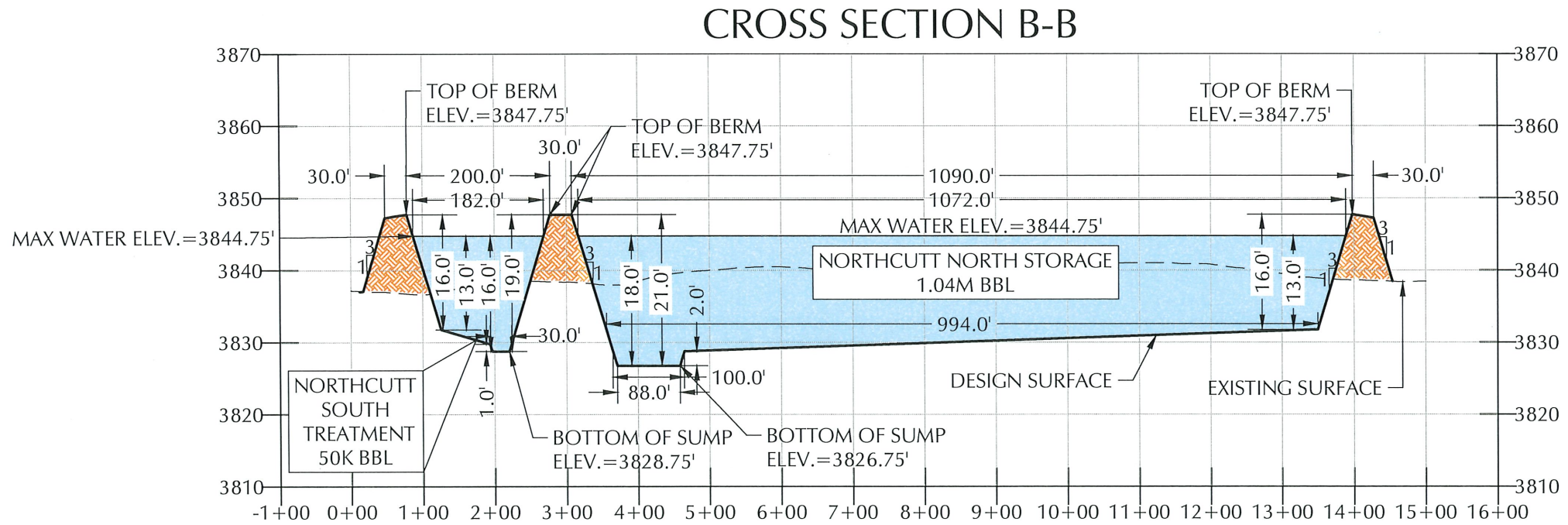
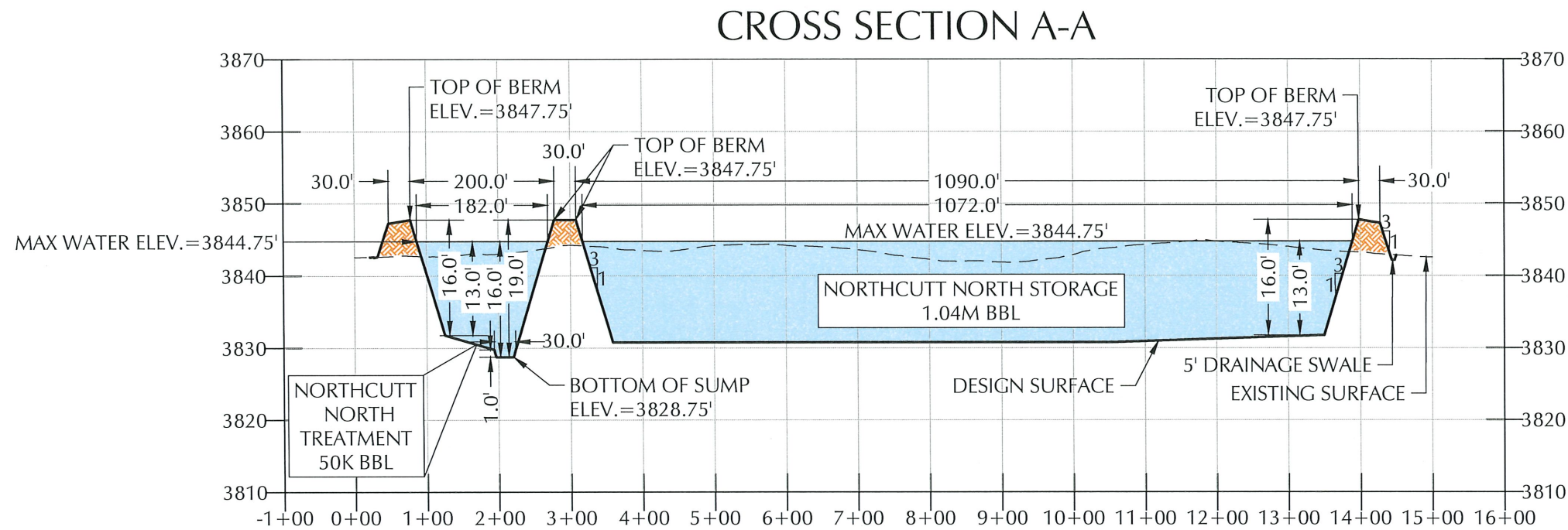
NO.	DATE	DESCRIPTION



RUB SHEET & FENCE PLAN
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	1" = 200'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	7 OF 14





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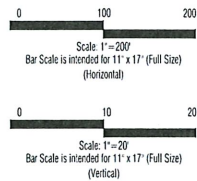
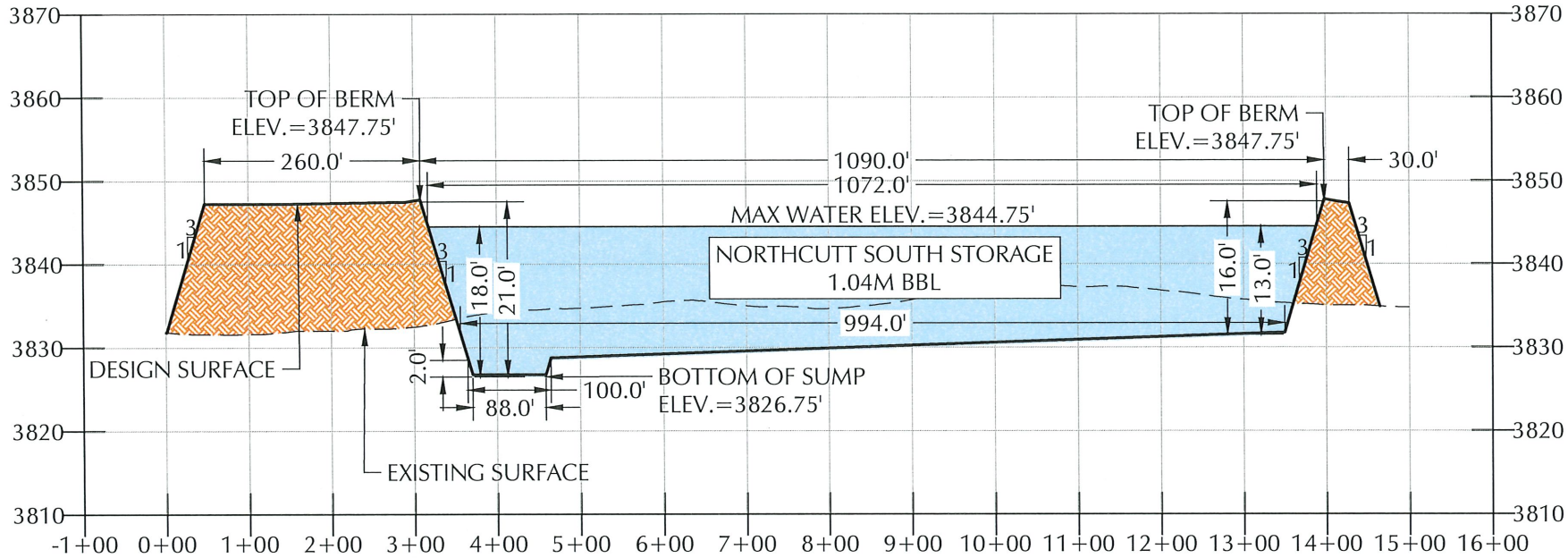


CROSS SECTIONS A & B
NORTH CUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	VERTICAL 1"=20' HORIZONTAL 1"=200'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	8 OF 14



CROSS SECTION C-C



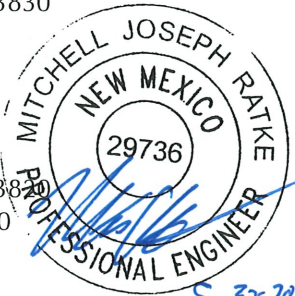
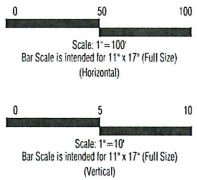
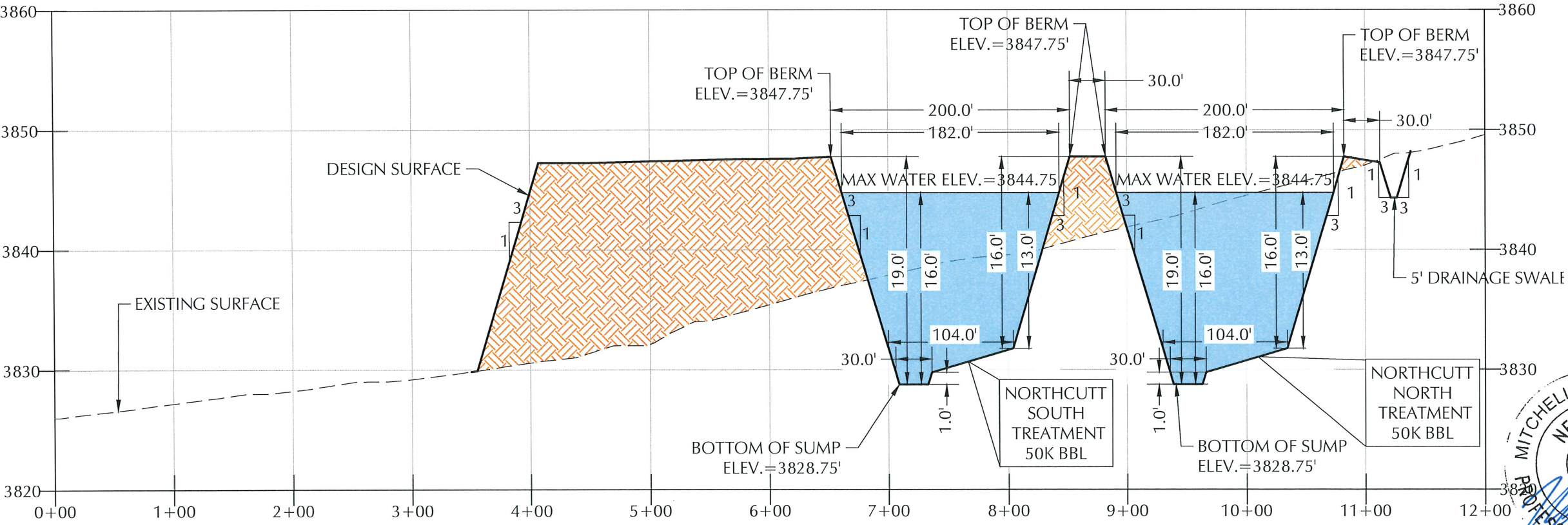
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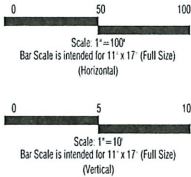
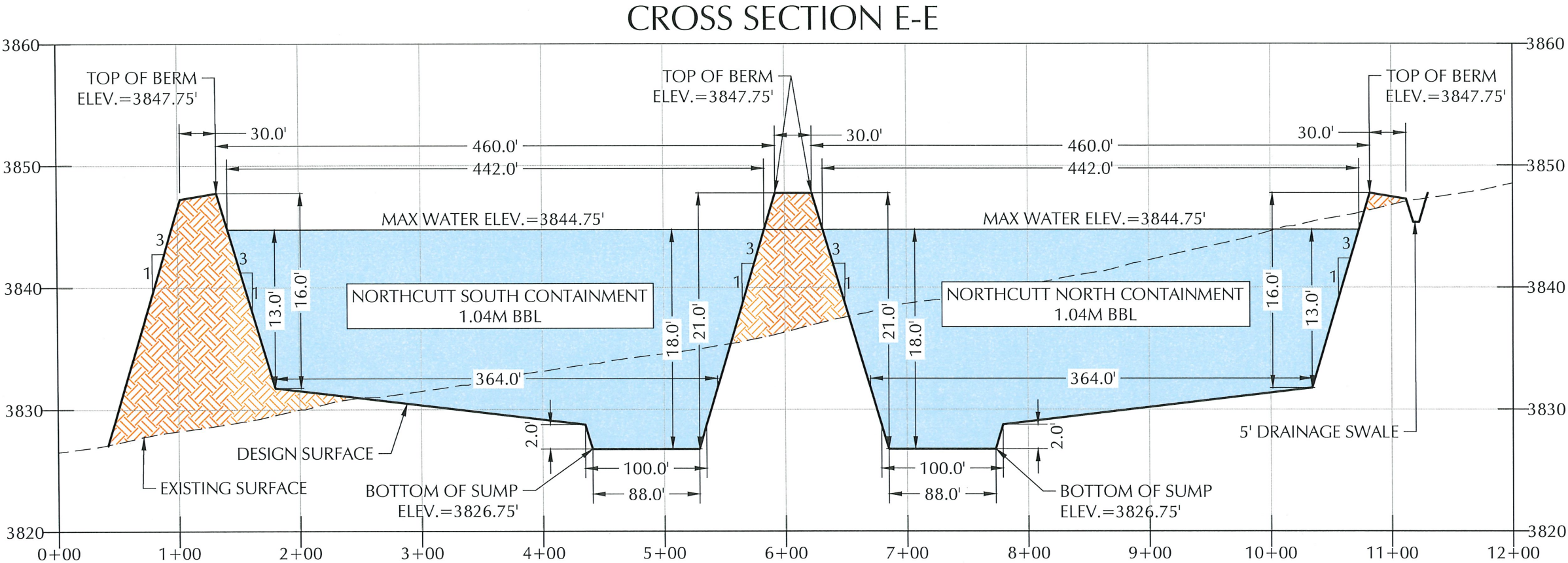


CROSS SECTION D-D



CROSS SECTIONS C & D
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	VARIES
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	9 OF 14



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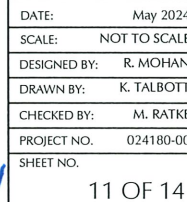
NO.	DATE	DESCRIPTION
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CROSS SECTION E
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO



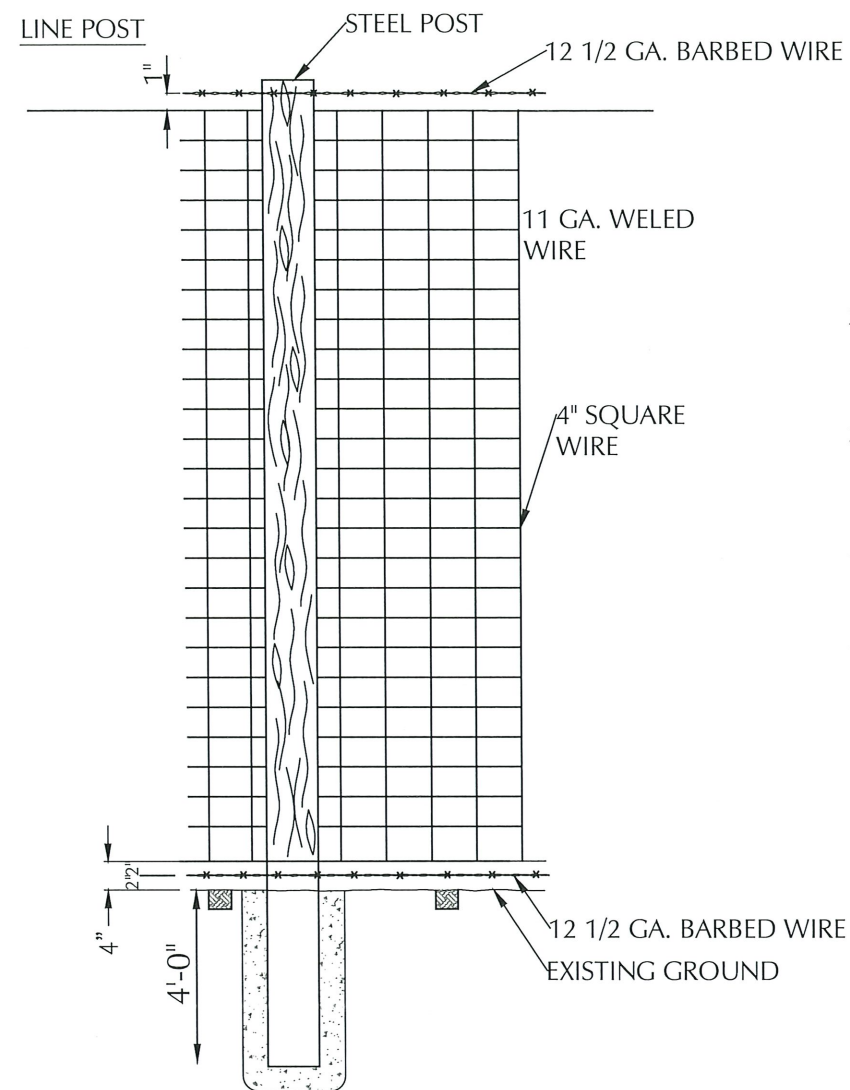
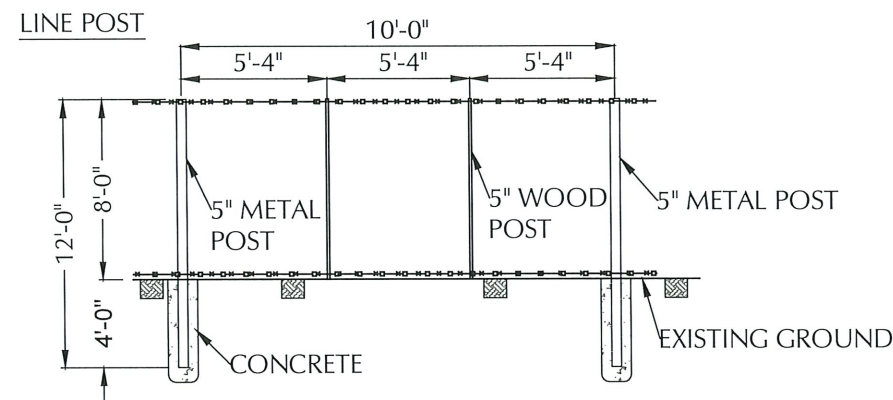
DATE:	May 2024
SCALE:	VERTICAL 1"=10' HORIZONTAL 1"=100'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	10 OF 14





- TYPICAL BERM CREST DETAIL
- Not to Scale
- 10
4-5 12

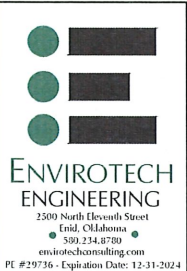




1. AT EACH LOCATION WHERE AN ELECTRIC TRANSMISSION, DISTRIBUTION OR SECONDARY LINE CROSSES A BARRIER FENCE, THE CONTRACTOR SHALL FURNISH AND INSTALL A GROUND CONFORMING TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE- THE GROUND ROD SHALL BE A MINIMUM DIAMETER OF 1 1/2-IN. AND 8-FT. IN LENGTH, AND DRIVEN AT LEAST 7 1/2 FT. INTO THE GROUND. THE ROD SHALL BE CONNECTED TO EACH WIRE WITH A MINIMUM AWG NO. 8 STRANDED COPPER WIRE. GROUNDING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
2. LINE BRACE POSTS SHALL BE SPACED AT 400 FT. INTERVALS, WHERE FENCING IS CONTINUOUS AND WHERE END, CORNER AND LINE BRACE POSTS ARE NOT SPECIFIED.
3. ALL LINE POSTS SHALL BE 5 IN. MIN. DIAMETER AND 12 FT. LONG. ALL END, CORNER AND LINE BRACE POSTS SHALL BE 6 IN. MIN. DIAMETER AND 12 FT. LONG.
4. BARBED WIRE SHALL BE DOUBLE WRAPPED AND TIED OFF AT END POSTS, CORNER POSTS AND LINE BRACE POSTS.
5. WOVEN WIRE SHALL BE SINGLE WRAPPED AND TIED OFF. FENCE TO BE CONTINUED, SHALL BE RESTARTED IN LIKE MANNER. WOVEN WIRE FENCE FABRIC SHALL CONFORM TO AASHTO M 279 (ASTM A 116) DESIGN NO. 1047-6-11 WITH CLASS I COATING.
6. STEEL BARBED WIRE SHALL CONFORM TO AASHTO M 200 (ASTM A 121) 12-1/2 GAGE WITH CLASS 1 COATING.
7. ALL FENCE WIRE TIES, BRACE WIRES, STAPLES AND OTHER WIRE APPURTENANCES SHALL BE GALVANIZED IN CONFORMANCE WITH AASHTO M 232.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING DISTURBED OR DESTROYED SURVEY MONUMENTS TO THE APPROPRIATE ACCURACY.
9. ALL MISCELLANEOUS HARDWARE SHALL BE FURNISHED GALVANIZED OR ALUMINUM COATED. ALL METAL PIPE POSTS SHALL BE CAPPED.
10. READY MIX CONCRETE MAY BE USED AS A SUBSTITUTE FOR CLASS "A" CONCRETE FOR THE CONCRETE FOOTING IF APPROVED BY THE ENGINEER.

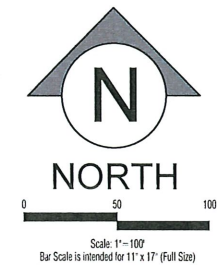


5-30-2024



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NO.	DATE	DESCRIPTION



5-30-2024

STORAGE PIT DRAINAGE DETAIL
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	1" = 100'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	

**Select Energy Services
Northcutt Recycle Facility
Closure Cost Estimate**

Item	Units	Quantity	\$/Unit	Estimate Cost
Facility Closure				
Fluid removal				
Northcutt North Storage Containment (1M bbls)	bbls	1,046,465	\$ 0.50	\$ 523,232.50
Northcutt South Storage Containment (1M bbls)	bbls	1,046,465	\$ 0.50	\$ 523,232.50
Northcutt North Treatment Containment (50K bbls)	bbls	50,413	\$ 0.50	\$ 25,206.50
Northcutt South Treatment Containment (50K bbls)	bbls	50,413	\$ 0.50	\$ 25,206.50
Vac truck (final fluid removal)	hrs	24	\$ 125.00	\$ 3,000.00
Liner removal (fold-in-place)				
Covers removal and disposal	SF	1,135,786	\$ 0.18	\$ 204,441.48
Equipment removal				
Pit clean-out and residue haul-off	LS	1	\$ 10,000.00	\$ 10,000.00
Equipment removal (tanks, gun barrel, FWKO)	LS	1	\$ 7,500.00	\$ 7,500.00
Electrical decomissioning (pumps and panels)	LS	1	\$ 5,000.00	\$ 5,000.00
Misc equipment clean-up and removal	hr	120	\$ 135.00	\$ 16,200.00
Site Restoration				
Dozer - push in berms (bid)	CY	225,428	\$ 5.00	\$ 1,127,140.00
and final grading of the site				
Re-vegetation	ea	1	\$ 5,500.00	\$ 5,500.00
Estimated Total				\$ 2,475,659.48

Assumptions

No Remediation will be necessary

Pit is full at time of closure

Pit berms above natural grade will be used to fill voids below natural grade



NORTHCUTT RECYCLE FACILITY

SELECT ENERGY SERVICES, LLC

SECTION 9, TOWNSHIP 19 SOUTH, RANGE 35 EAST

32.679989° , -103.467891°
N 32° 40' 47.9598" , W 103° 28' 4.4076"



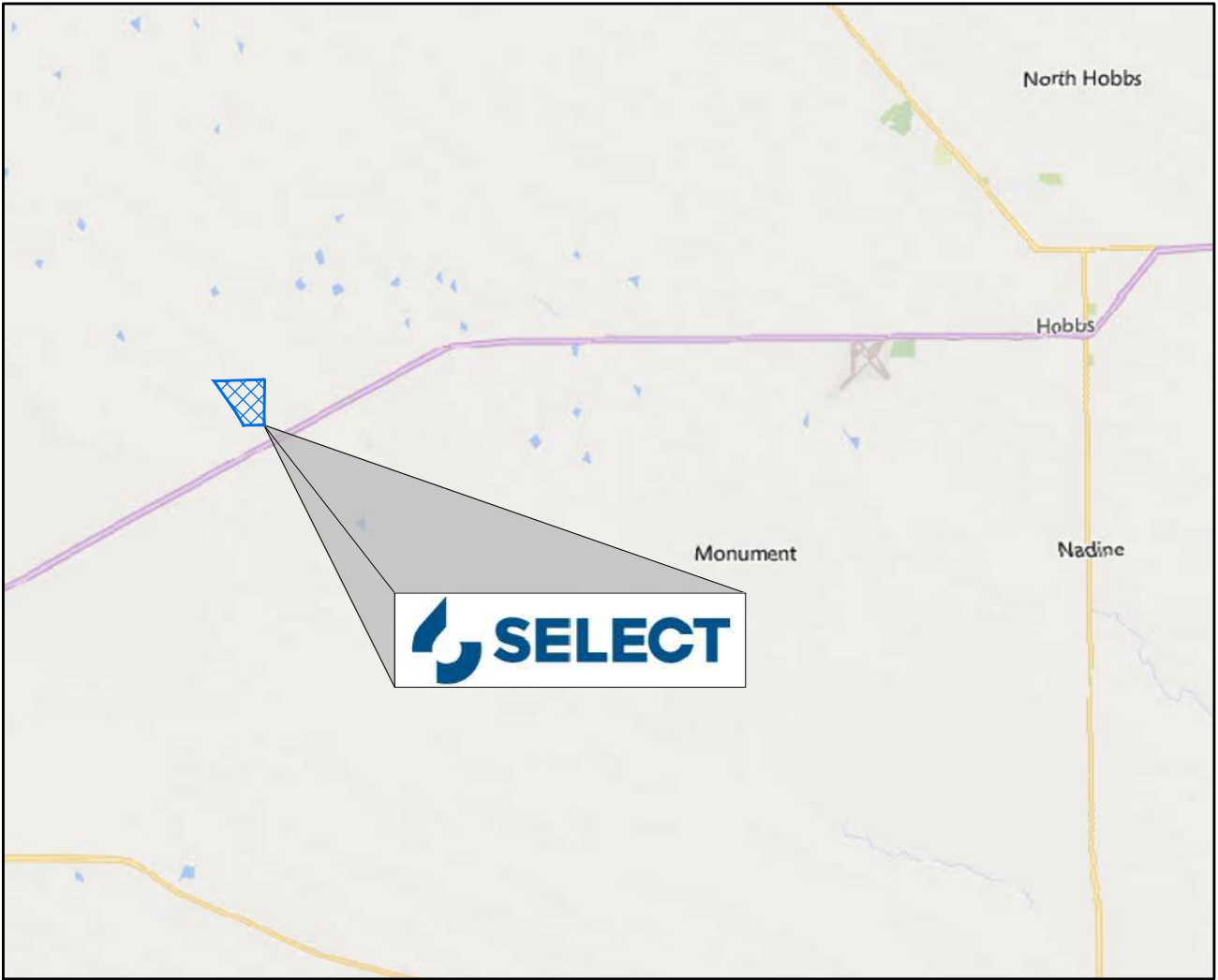
CONTACTS

JOHN MCGILLIS - SELECT ENERGY SERVICES, LLC - (713)-806-0488
ENVIROTECH ENGINEERING & CONSULTING - ROSHAN MOHAN, EIT (580)-234-8780 (DESIGN ENGINEER)
ENVIROTECH ENGINEERING & CONSULTING - MITCHELL RATKE, PE (580)-234-8780 (DESIGN ENGINEER)



UTILITY CAUTION

THE CONTRACTOR IS CAUTIONED THE LOCATION AND DEPTH OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON PUBLICLY AVAILABLE RECORDS OF THE VARIOUS UTILITY COMPANIES AND FIELD MEASUREMENTS. THE INFORMATION PROVIDED IS NOT TO BE RELIED ON AS BEING PRECISE OR COMPLETE. THE CONTRACTOR MUST CONTACT THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.



INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	COVER
2	PROJECT LOCATION
3	EXISTING SITE FEATURES
4	SITE PLAN
5	TREATMENT PIT PLAN
6	PIT CAPACITIES
7	RUB SHEET & FENCE PLAN
8	CROSS SECTIONS A & B
9	CROSS SECTIONS C & D
10	CROSS SECTION E
11	SUMP DETAILS
12	LINER DETAILS
13	FENCE DETAILS
14	STORAGE PIT DRAINAGE DETAIL
15	STAKING PLAN
16	TREATMENT PIT STAKING PLAN
17	CUT & FILL MAP
18	BID QUANTITIES & NOTES



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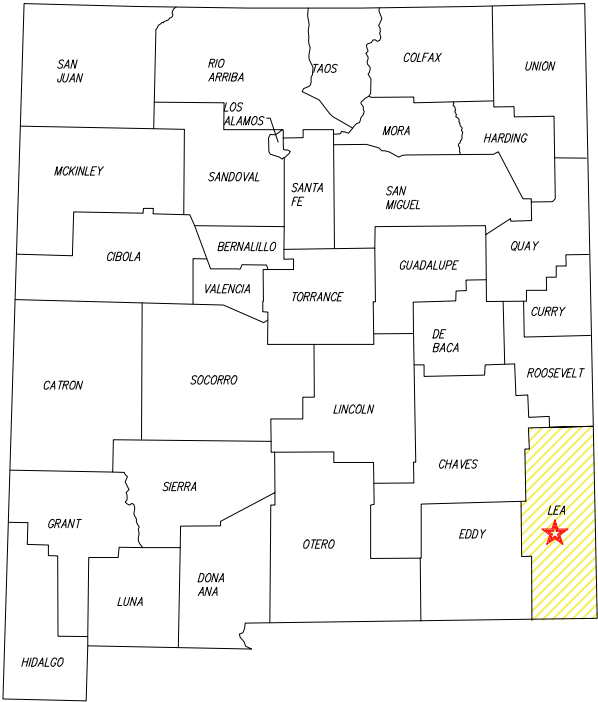
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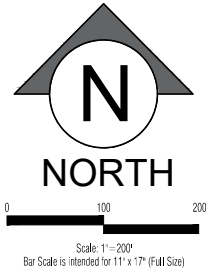
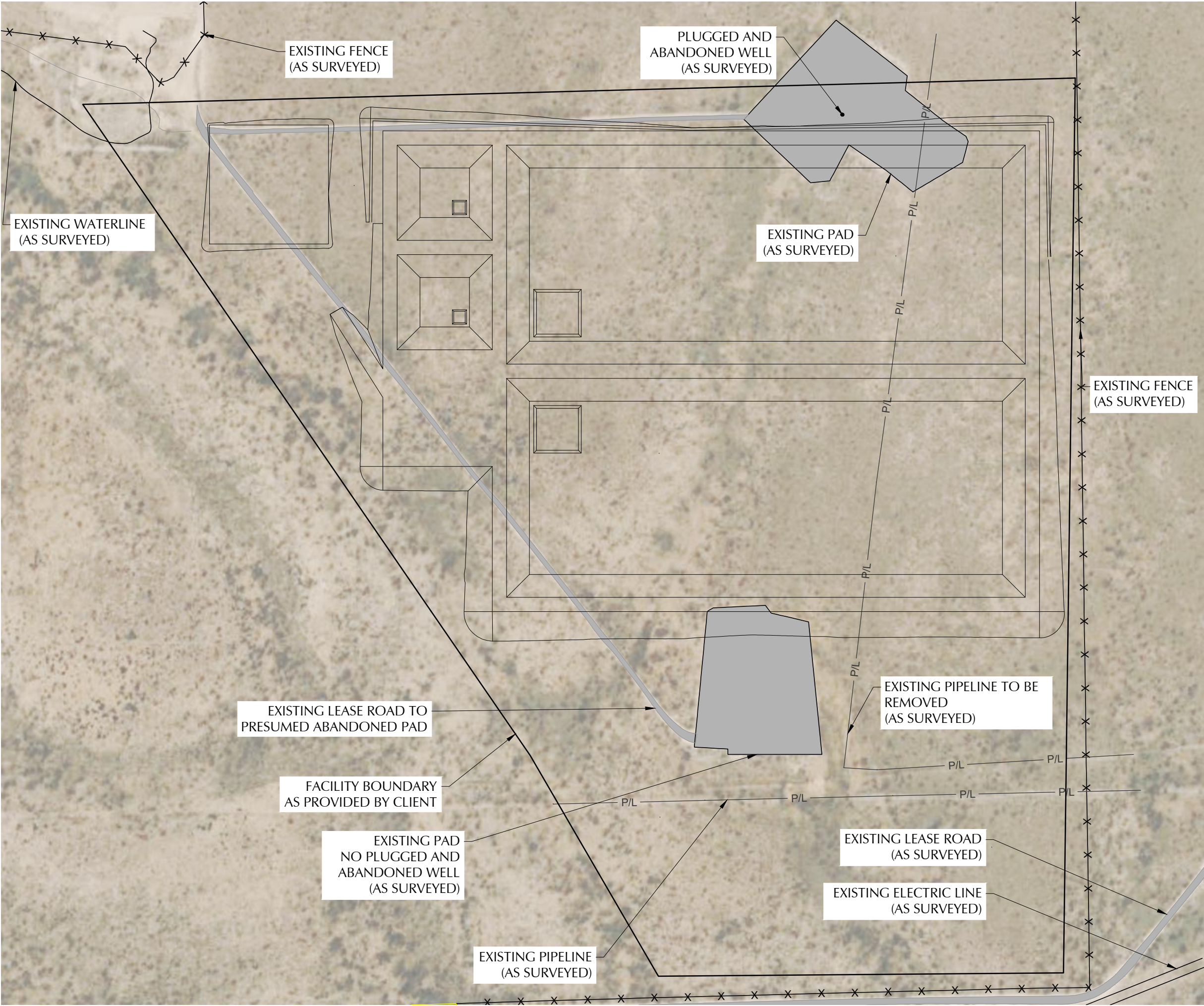
NO.	DATE	DESCRIPTION



PROJECT LOCATION
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	NOT TO SCALE
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	2 OF ##







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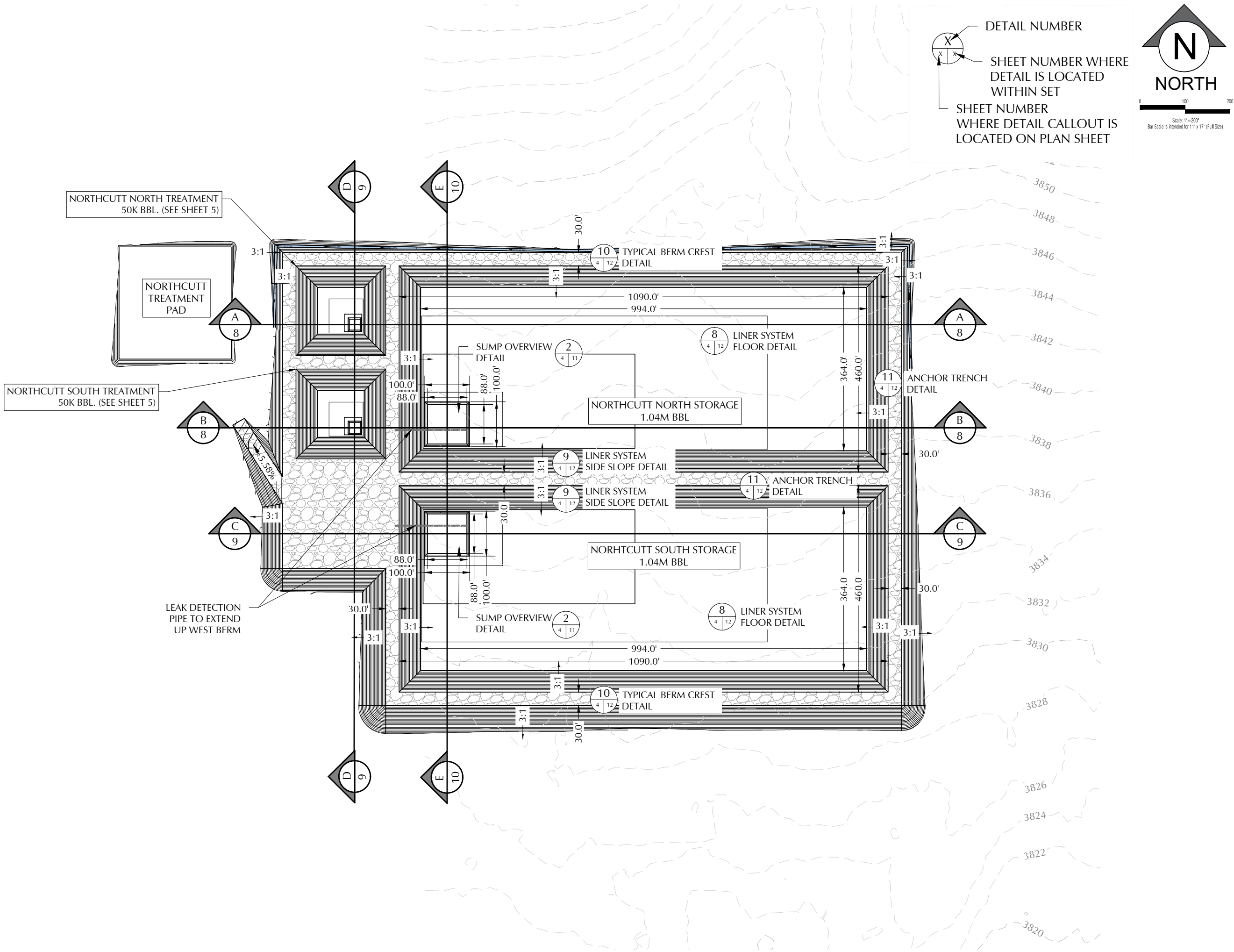
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NO.	DATE	DESCRIPTION



EXISTING SITE FEATURES
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	1" = 200'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	3 OF ##



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NO.	DATE	DESCRIPTION

SITE PLAN

NORTH CUTT RECYCLE FACILITY

SELECT ENERGY SERVICES, LLC

PERMIT MODIFICATION

SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:

May 2024

SCALE:

1" = 200'

DESIGNED BY:

R. MOHAN

DRAWN BY:

K. TALBOTT

CHECKED BY:

M. RATKE

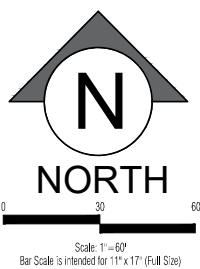
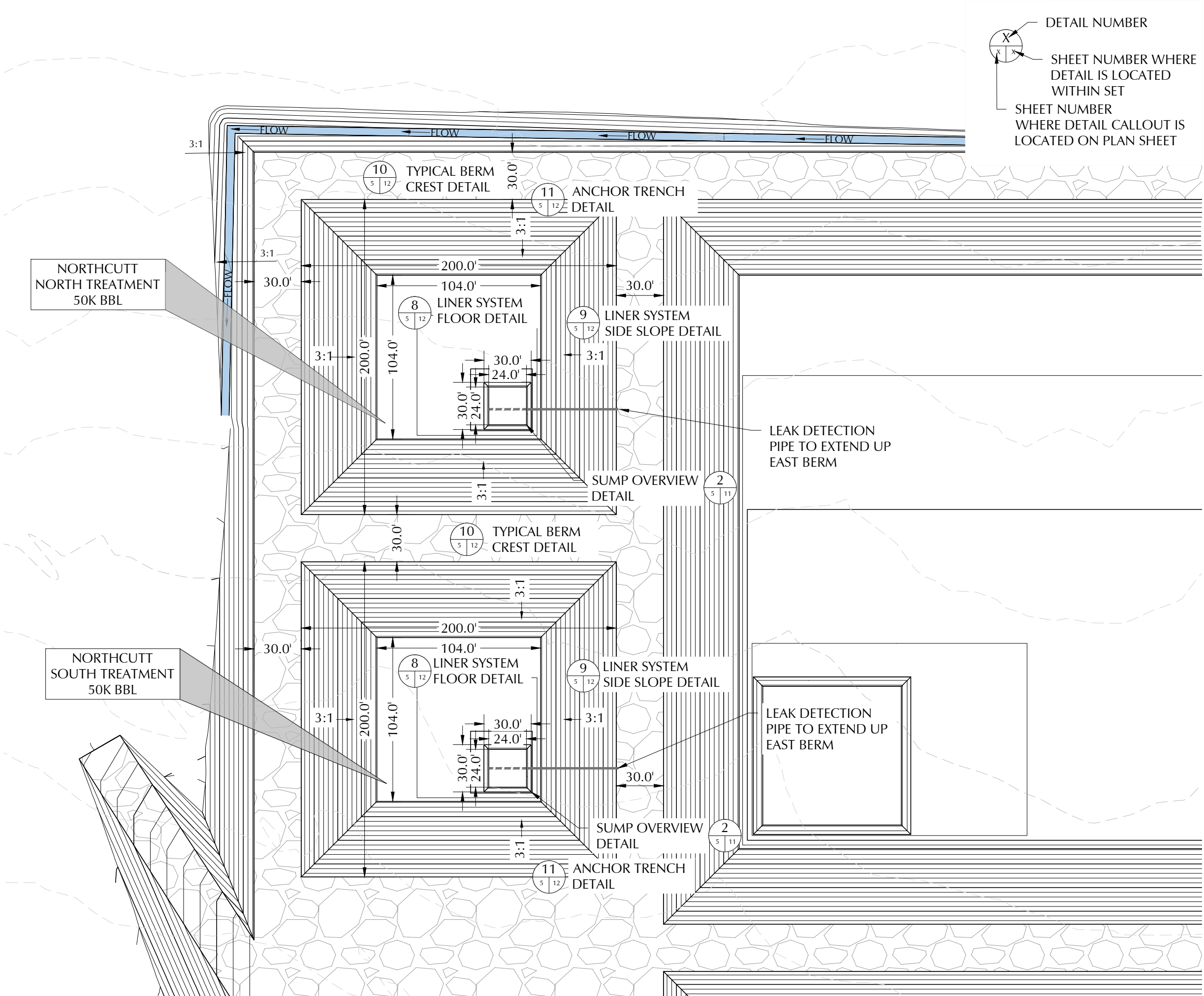
PROJECT NO.

024180-00

SHEET NO.

4 OF 18

Released to: Imaging - 6/5/2024 2:06:13 PM
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DETAIL NUMBER

SHEET NUMBER WHERE
DETAIL IS LOCATED
WITHIN SET

SHEET NUMBER
WHERE DETAIL CALLOUT IS
LOCATED ON PLAN SHEET

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ENGINEERING**
2500 North Eleventh Street
Enid, Oklahoma
580.234.8780
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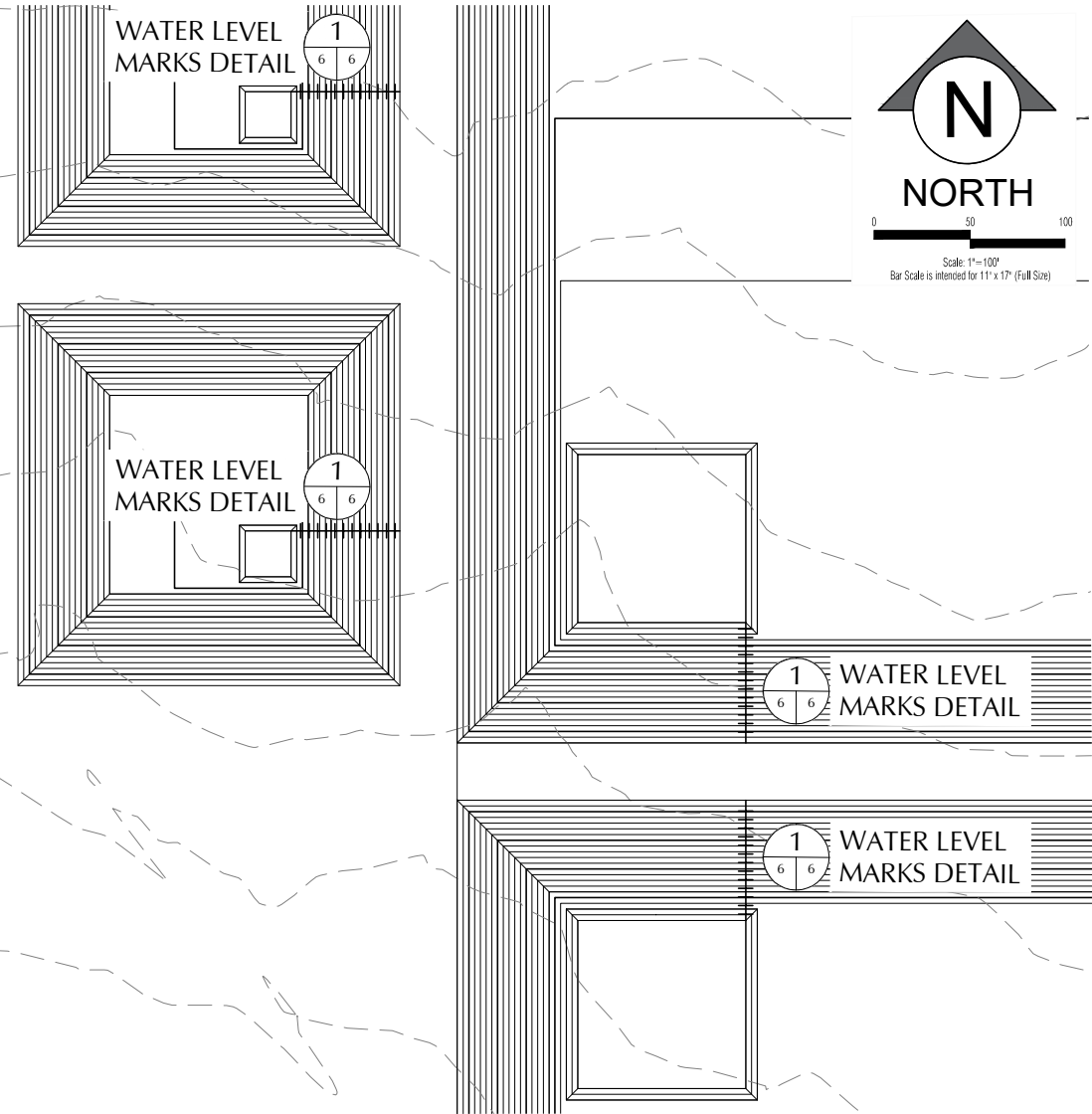
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NO.	DATE	DESCRIPTION

INFLOW & TREATMENT PLAN
NORTH CUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	1" = 60'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	5 OF 18



Site Owner	Select Energy Services, LLC			
Site Name	Northcutt Treatment Containments			
	Top	Bottom	Max	
Lagoon Features			Liq. Level	
Side slope Ratio	3		3	
Maximum Depth (ft)	19.0		16.0	
Lagoon Top Width (ft)	200	104	182	
Lagoon Top Length (ft)	200	104	182	
Maximum Total Vol (ft³)	392,543		283,028	
Maximum Total Vol (bbls)	69,919		50,413	

Freeboard

Maximum Capacity

Storage Volume

Floor

Sump

Elevation	Lagoon Liq Depth	Storage	Remaining Stor Vol	Gallons Storage	BBLS Storage	Percent of Total Volume	Vol in lagoon	Gallons Storage	Vol in Lagoon	Vol in Lagoon	Percent Total Vol
ft	ft	ft	ft³	gal	bbls	%	ft³	gal	bbls	ac-ft	%
3847.75	19.0	0.0	-	-	-	0.0%	392,543	2,936,611	69,919	9.01	100%
3846.75	18.0	1.0	38,810	290,338	6,913	9.9%	353,733	2,646,274	63,007	8.12	90%
3845.75	17.0	2.0	75,290	563,246	13,411	19.2%	317,252	2,373,365	56,509	7.28	81%
3844.75	16.0	3.0	109,515	819,279	19,507	27.9%	283,028	2,117,332	50,413	6.50	72%
3843.75	15.0	4.0	141,555	1,058,975	25,214	36.1%	250,987	1,877,636	44,706	5.76	64%
3842.75	14.0	5.0	171,484	1,282,874	30,545	43.7%	221,058	1,653,737	39,375	5.07	56%
3841.75	13.0	6.0	199,373	1,491,513	35,512	50.8%	193,169	1,445,099	34,407	4.43	49%
3840.75	12.0	7.0	225,295	1,685,431	40,129	57.4%	167,248	1,251,181	29,790	3.84	43%
3839.75	11.0	8.0	249,321	1,865,167	44,409	63.5%	143,222	1,071,444	25,511	3.29	36%
3838.75	10.0	9.0	271,522	2,031,259	48,363	69.2%	121,020	905,352	21,556	2.78	31%
3837.75	9.0	10.0	291,972	2,184,246	52,006	74.4%	100,570	752,366	17,913	2.31	26%
3836.75	8.0	11.0	310,743	2,324,667	55,349	79.2%	81,800	611,945	14,570	1.88	21%
3835.75	7.0	12.0	327,905	2,453,059	58,406	83.5%	64,637	483,553	11,513	1.48	16%
3834.75	6.0	13.0	343,532	2,569,961	61,190	87.5%	49,011	366,650	8,730	1.13	12%
3833.75	5.0	14.0	357,695	2,675,913	63,712	91.1%	34,848	260,698	6,207	0.80	9%
3832.75	4.0	15.0	370,466	2,771,453	65,987	94.4%	22,077	165,159	3,932	0.51	6%
3831.75	3.0	16.0	381,917	2,857,118	68,027	97.3%	10,626	79,493	1,893	0.24	3%
3830.75	2.0	17.0	389,343	2,912,673	69,349	99.2%	3,200	23,938	570	0.07	1%
3829.75	1.0	18.0	391,810	2,931,132	69,789	99.8%	732	5,479	130	0.02	0%
3828.75	0.0	19.0	392,543	2,936,611	69,919	100.0%	-	-	-	-	0%

Site Owner	Select Energy Services, LLC			
Site Name	Northcutt Storage Containments			
	Top	Bottom	Max	
Lagoon Features			Liq. Level	
Side slope Ratio	3		3	
Maximum Depth (ft)	21.0		18.0	
Lagoon Top Width (ft)	460	364	442	
Lagoon Top Length (ft)	1090	704	1072	
Maximum Total Vol (ft³)	7,337,583		5,875,090	
Maximum Total Vol (bbls)	1,306,963		1,046,465	

Freeboard

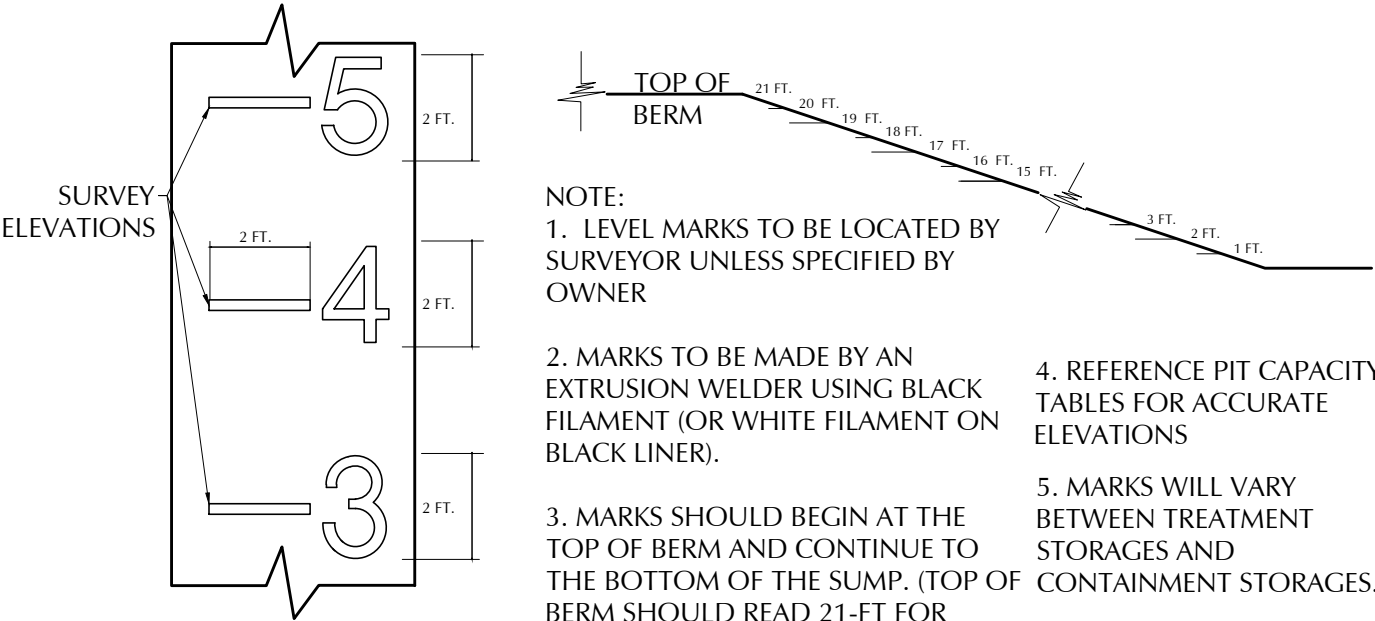
Maximum Capacity

Storage Volume

Floor

Sump

Elevation	Lagoon Liq Depth	Storage	Remaining Stor Vol	Gallons Storage	BBLS Storage	Percent of Total Volume	Vol in lagoon	Gallons Storage	Vol in Lagoon	Vol in Lagoon	Percent Total Vol
ft	ft	ft	ft³	gal	bbls	%	ft³	gal	bbls	ac-ft	%
3847.75	21.0	0.0	-	-	-	0.0%	7,337,583	54,892,459	1,306,963	168.45	100%
3846.75	20.0	1.0	496,696	3,715,781	88,471	6.8%	6,840,887	51,176,678	1,218,492	157.05	93%
3845.75	19.0	2.0	984,164	7,362,535	173,298	13.4%	6,353,419	47,529,925	1,131,665	143.85	87%
3844.75	18.0	3.0	1,462,494	10,940,914	260,498	19.9%	5,875,090	43,951,545	1,046,465	134.87	80%
3843.75	17.0	4.0	1,931,718	14,451,181	344,076	26.3%	5,405,865	40,441,278	962,888	124.10	74%
3842.75	16.0	5.0	2,391,952	17,894,195	426,052	32.6%	4,945,631	36,998,264	880,911	113.54	67%
3841.75	15.0	6.0	2,843,224	21,270,159	506,432	38.7%	4,494,359	33,622,301	800,531	103.18	61%
3840.75	14.0	7.0	3,285,641	24,579,879	585,235	44.8%	4,051,942	30,312,580	721,728	93.02	55%
3839.75	13.0	8.0	3,719,257	27,823,761	662,470	50.7%	3,618,326	27,068,699	644,493	83.07	49%
3838.75	12.0	9.0	4,144,153	31,002,409	738,153	56.5%	3,193,430	23,890,050	568,811	73.31	44%
3837.75	11.0	10.0	4,560,410	34,116,430	812,296	62.2%	2,777,173	20,776,029	494,667	63.76	38%
3836.75	10.0	11.0	4,968,083	37,166,228	884,910	67.7%	2,369,500	17,726,231	422,053	54.40	32%
3835.75	9.0	12.0	5,367,225	40,152,207	956,005	73.1%	1,970,359	14,740,253	350,958	45.23	27%
3834.75	8.0	13.0	5,757,970	43,075,376	1,025,604	78.5%	1,579,613	11,817,084	281,359	36.26	22%
3833.75	7.0	14.0	6,140,320	45,935,735	1,093,708	83.7%	1,197,263	8,956,724	213,255	27.49	16%
3832.75	6.0	15.0	6,514,382	48,734,093	1,160,336	88.8%	823,201	6,158,366	146,628	18.90	11%
3831.75	5.0	16.0	6,880,237	51,471,055	1,225,501	93.8%	457,346	3,421,404	81,462	10.50	6%
3830.75	4.0	17.0	7,152,793	53,510,043	1,274,049	97.5%	184,790	1,382,416	32,915	4.24	3%
3829.75	3.0	18.0	7,281,863	54,475,614	1,297,038	99.2%	55,721	416,845	9,925	1.28	1%
3828.75	2.0	19.0	7,319,900	54,760,176	1,303,814	99.8%	17,683	132,284	3,150	0.41	0%
3827.75	1.0	20.0	7,329,322	54,830,660	1,305,492	99.9%	8,261	61,800	1,471	0.19	0%
3826.75	0.0	21.0	7,337,583	54,892,459	1,306,963	100.0%	-	-	-	-	0%



- NOTE:
- LEVEL MARKS TO BE LOCATED BY SURVEYOR UNLESS SPECIFIED BY OWNER
 - MARKS TO BE MADE BY AN EXTRUSION WELDER USING BLACK FILAMENT (OR WHITE FILAMENT ON BLACK LINER).
 - MARKS SHOULD BEGIN AT THE TOP OF BERM AND CONTINUE TO THE BOTTOM OF THE SUMP. (TOP OF BERM SHOULD READ 21-FT FOR STORAGE CONTAINMENTS AND 19-FT FOR TREATMENT CONTAINMENTS, BOTTOM OF SUMP +1-FT SHOULD READ 1-FT)
 - REFERENCE PIT CAPACITY TABLES FOR ACCURATE ELEVATIONS
 - MARKS WILL VARY BETWEEN TREATMENT STORAGES AND CONTAINMENT STORAGES.

WATER LEVEL MARKS DETAIL
NOT TO SCALE

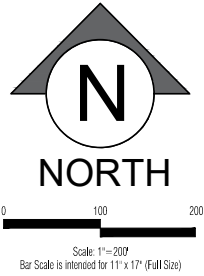
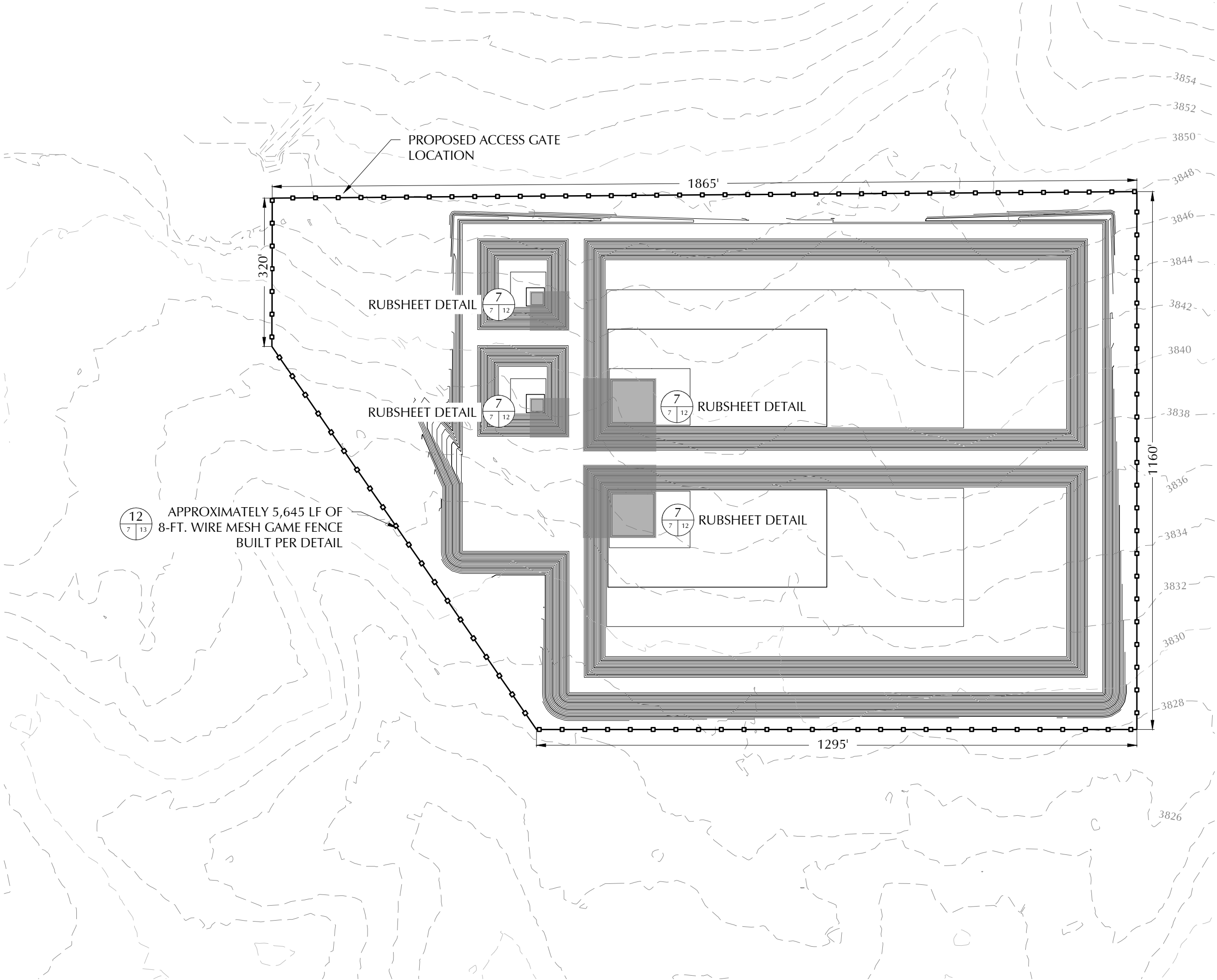
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SELECT

PIT CAPACITIES
NORTH CUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	1" = 100'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATEE
PROJECT NO.	024180-00
SHEET NO.	6 OF ##





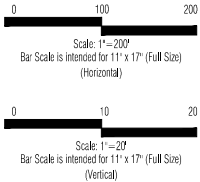
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NO.	DATE	DESCRIPTION



RUB SHEET & FENCE PLAN
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	1" = 200'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	7 OF ##



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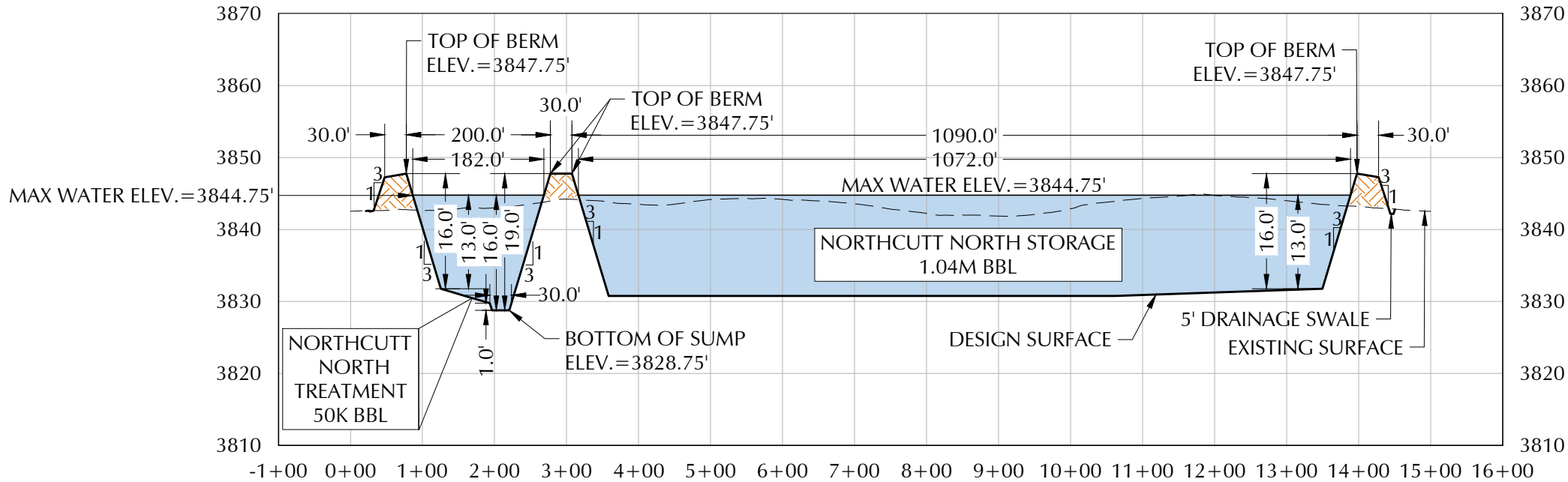
NO.	DATE	DESCRIPTION



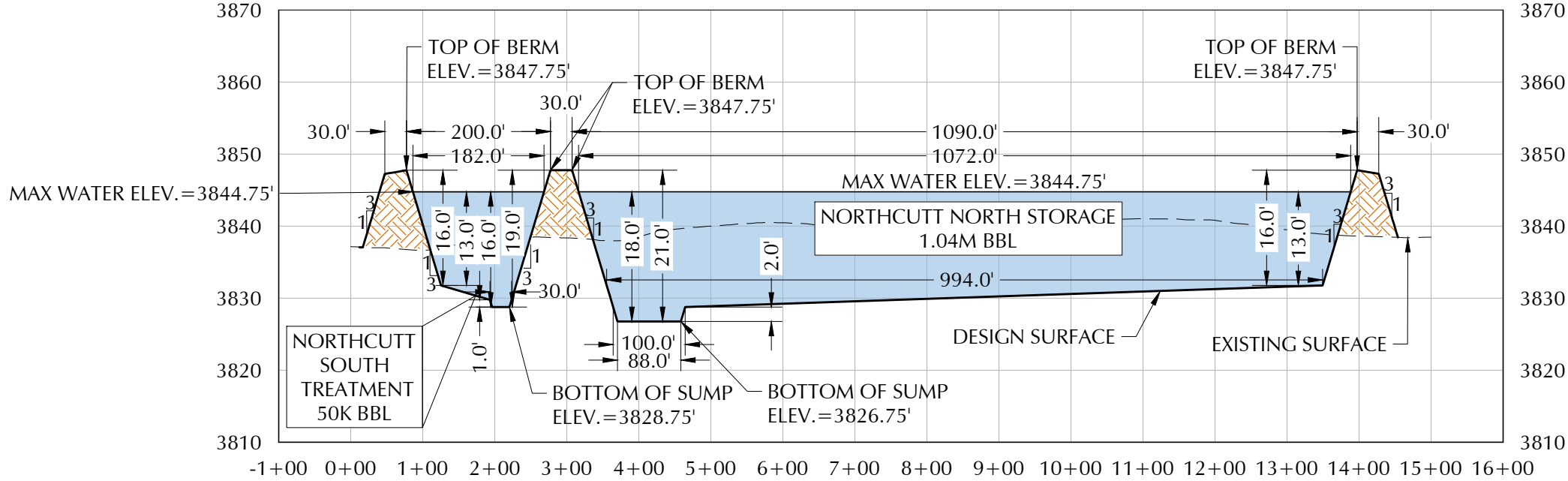
CROSS SECTIONS A & B
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	VERTICAL 1"=20' HORIZONTAL 1"=200'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	8 OF ##

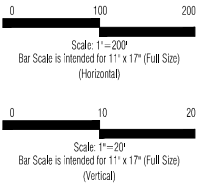
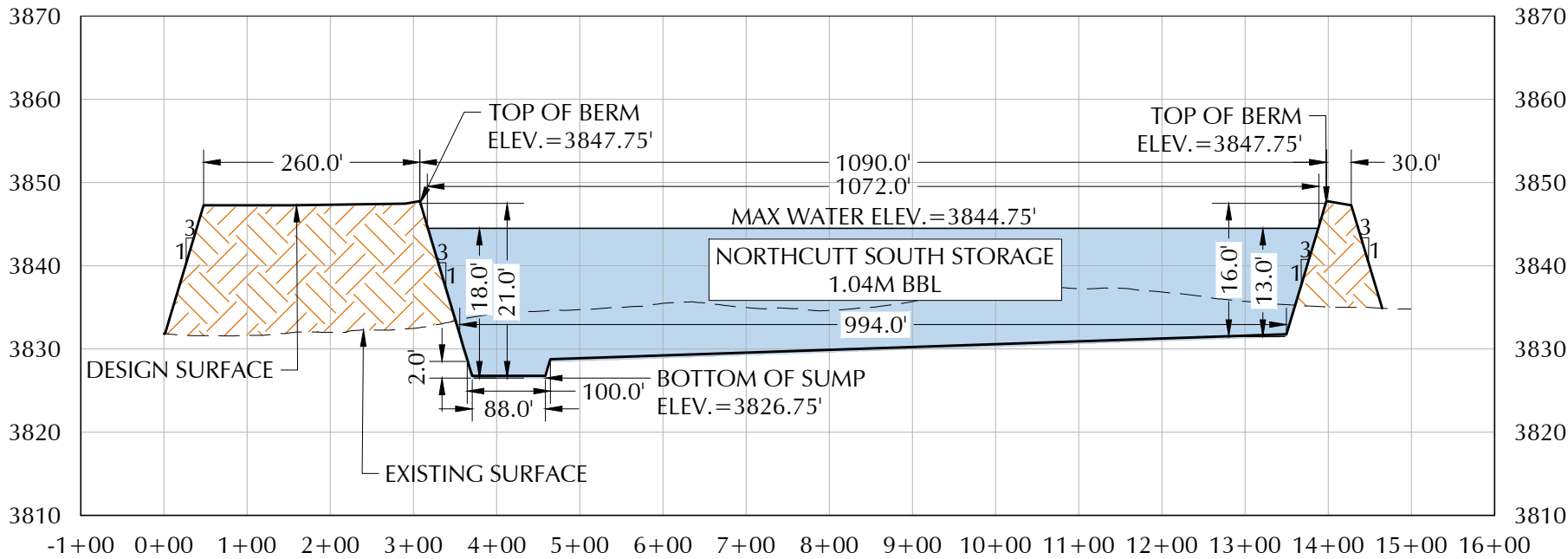
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CROSS SECTION B-B



CROSS SECTION C-C



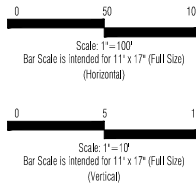
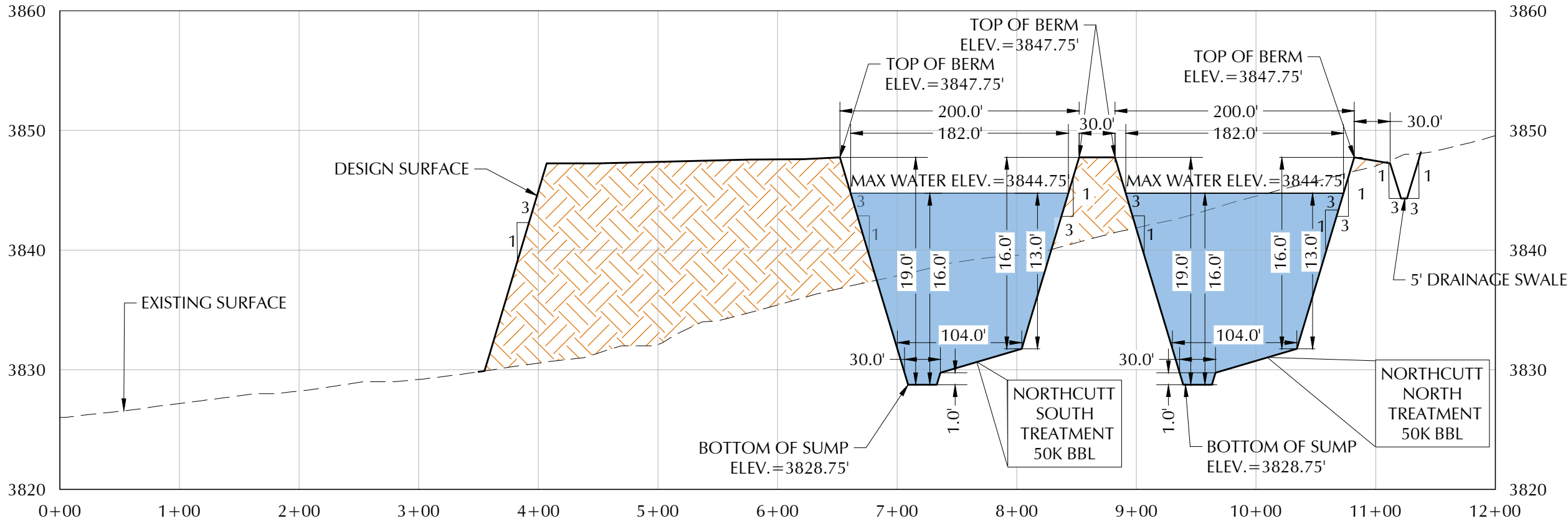
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NO.	DATE	DESCRIPTION

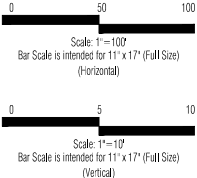
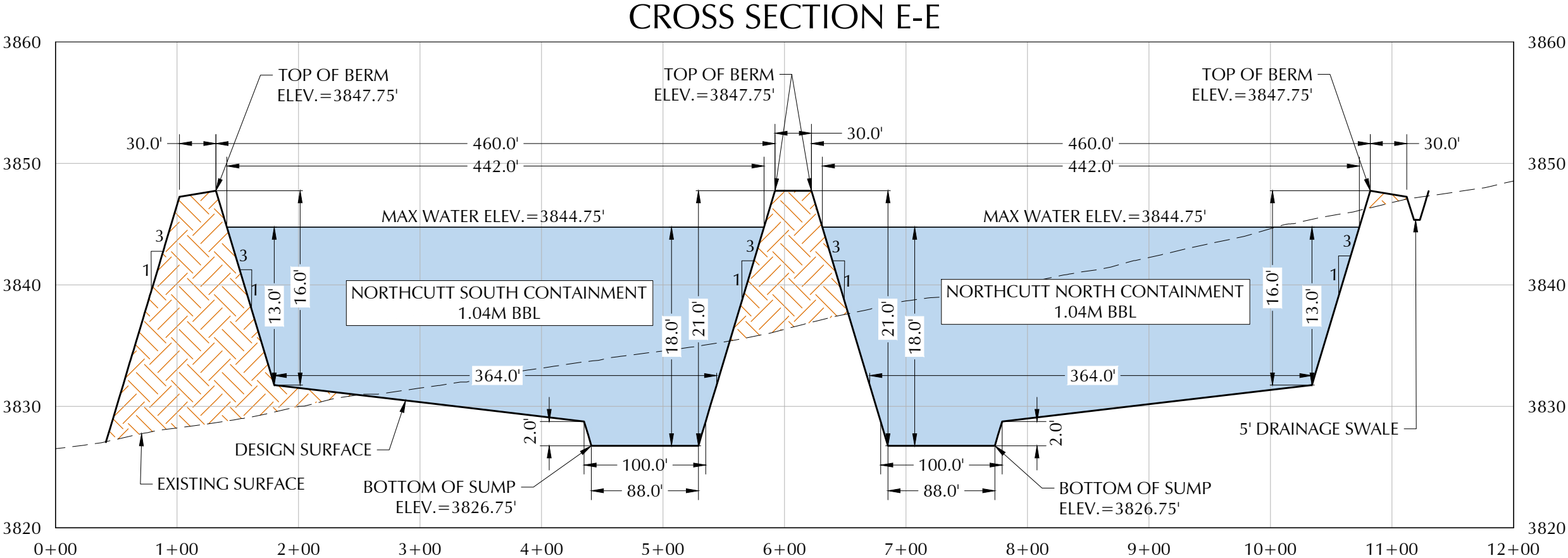


CROSS SECTION D-D



CROSS SECTIONS C & D
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	VARIES
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	9 OF ##



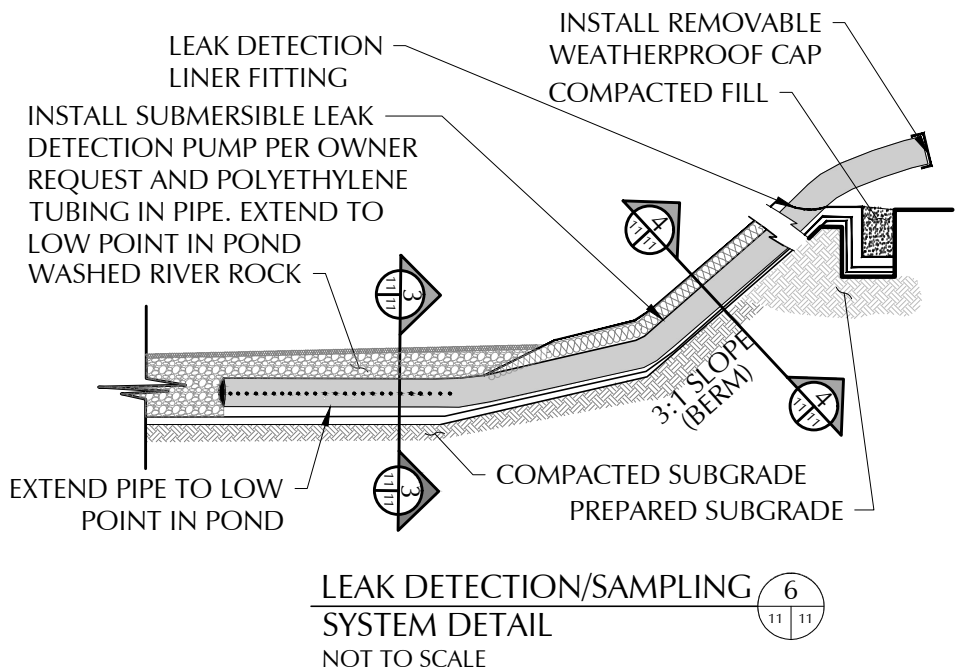
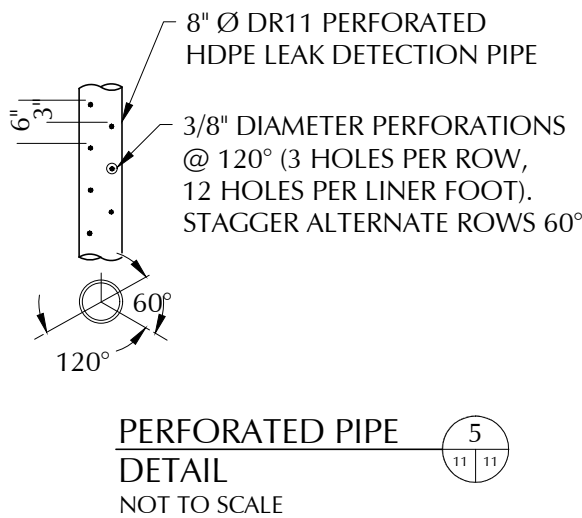
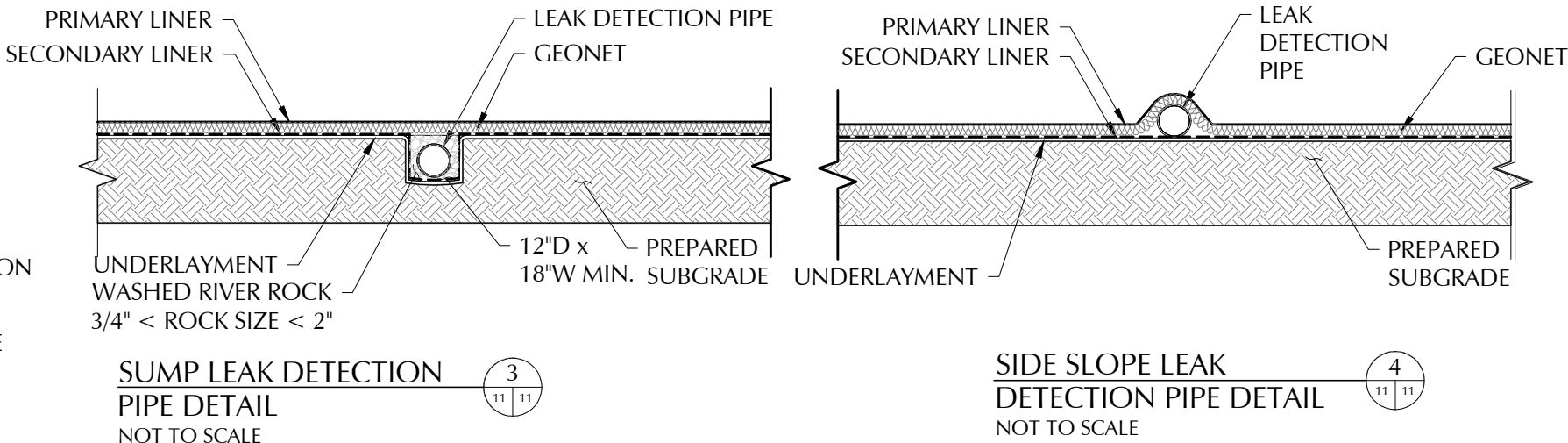
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NO.	DATE	DESCRIPTION

CROSS SECTION E
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

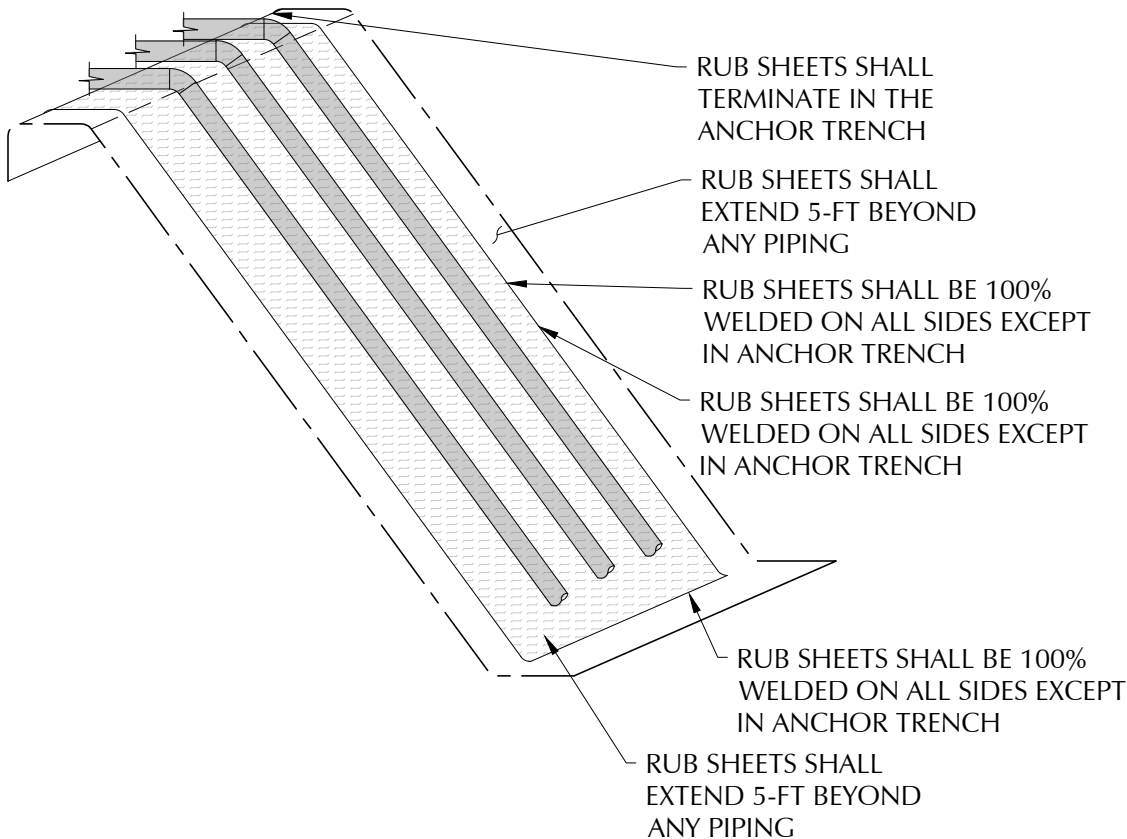
DATE:	May 2024
SCALE:	VERTICAL 1"=10' HORIZONTAL 1"=100'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	10 OF ##



PROPOSED PIT REFERENCE TABLE	
<u>DETAIL</u>	<u>DESCRIPTION</u>
PRIMARY LINER	60- MIL HDPE SMOOTH LINER
LEAK DETECTION	200-MIL GEONET
SECONDARY LINER	40-MIL HDPE SMOOTH LINER
UNDERLAYMENT	10 OZ GEOTEXTILE
SUMP	ELEVATION VARIES
BERM (ROAD CREST)	DESIGN ELEV. 3,847.75 FT- RD CREST (30-FT')
LEAK DETECTION PIPING	8-IN DR11. PERFORATED HDPE LEAK DETECTION PIPE

- NOTES:
1. LEAK DETECTION SYSTEM TO BE INSTALLED BY OWNER.
 2. PERFORATED PIPE TO BE ALONG THE BOTTOM OF THE POND. 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. WASH RIVER ROCK SHALL BE 3/4" MIN. & 2" MAX.

 <p>ENVIROTECH ENGINEERING 2500 North Eleventh Street Enid, Oklahoma 580.234.8780 envirotechconsulting.com PE #29736 - Expiration Date: 12-31-2024</p>		
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NO.	DATE	DESCRIPTION
		
SUMP DETAILS NORTHCUTT RECYCLE FACILITY SELECT ENERGY SERVICES, LLC PERMIT MODIFICATION SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST, LEA COUNTY, NEW MEXICO		
DATE:		May 2024
SCALE:		NOT TO SCALE
DESIGNED BY:		R. MOHAN
DRAWN BY:		K. TALBOTT
CHECKED BY:		M. RATKE
PROJECT NO.		024180-00
SHEET NO.		
11 OF ##		

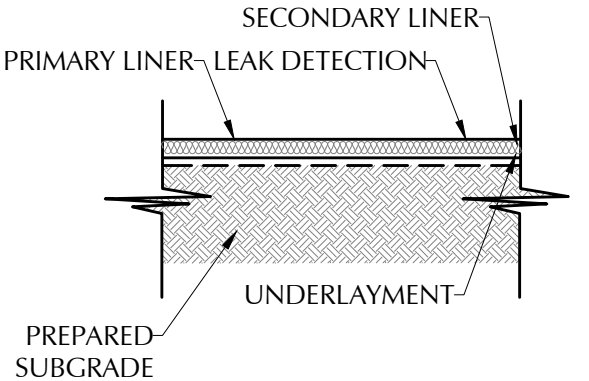


RUB SHEET DETAIL

NOT TO SCALE

7

7 12

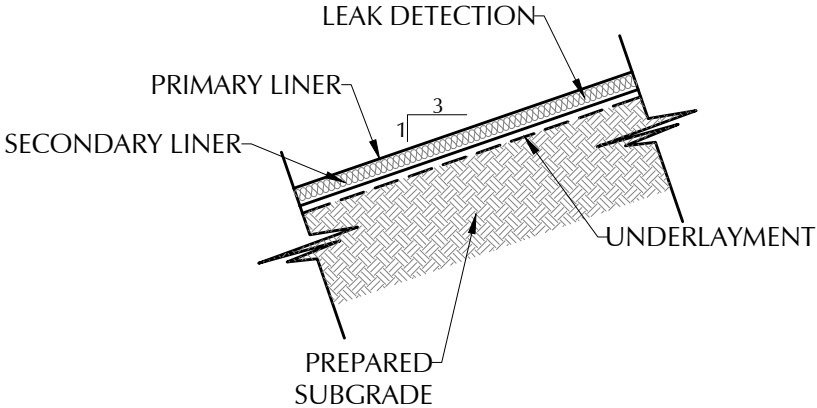


LINER SYSTEM FLOOR DETAIL

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8

4-5 12



LINER SYSTEM SIDE SLOPE DETAIL

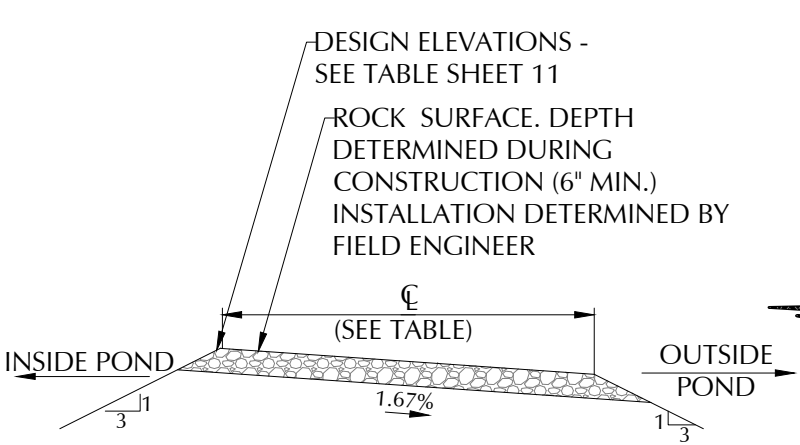
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9

4-5 12

GENERAL NOTES:

- SEE REFERENCE TABLES SHEET 11 FOR LINER SPECIFICATIONS
- PREPARED SUBGRADE MEANS COMPACTED SMOOTH SUBGRADE FREE OF ROCK, ROOTS, WOOD DEBRIS, CONCRETE RUBBLE AND ANY SHARP OBJECTS THAT MIGHT PUNCTURE THE HDPE LINER.
- ALL INTERIOR SLOPES AND TOP OF BERMS TO BE SMOOTH DRUM ROLLED.
- ALL EMBANKMENT SLOPES SHALL HAVE A RATIO OF 3:1, COMPACTED EARTH EMBANKMENTS TO BE CONSTRUCTED WITH 8 INCH (MAXIMUM LOOSE LIFTS), COMPACTED TO 95% STANDARD PROCTOR DENSITY (ASTM D698), AND MOISTURE CONDITIONS TO +/- 2% OPTIMUM MOISTURE (ASTM D698)
- PERFORM GEOTECHNICAL ANALYSIS ON EXISTING SOIL TO CONFIRM SOIL IS SUITABLE FOR USE IN THE LEVEE.
- ALL BOTTOM OF PITS SHALL SLOPE TO THE SUMP.

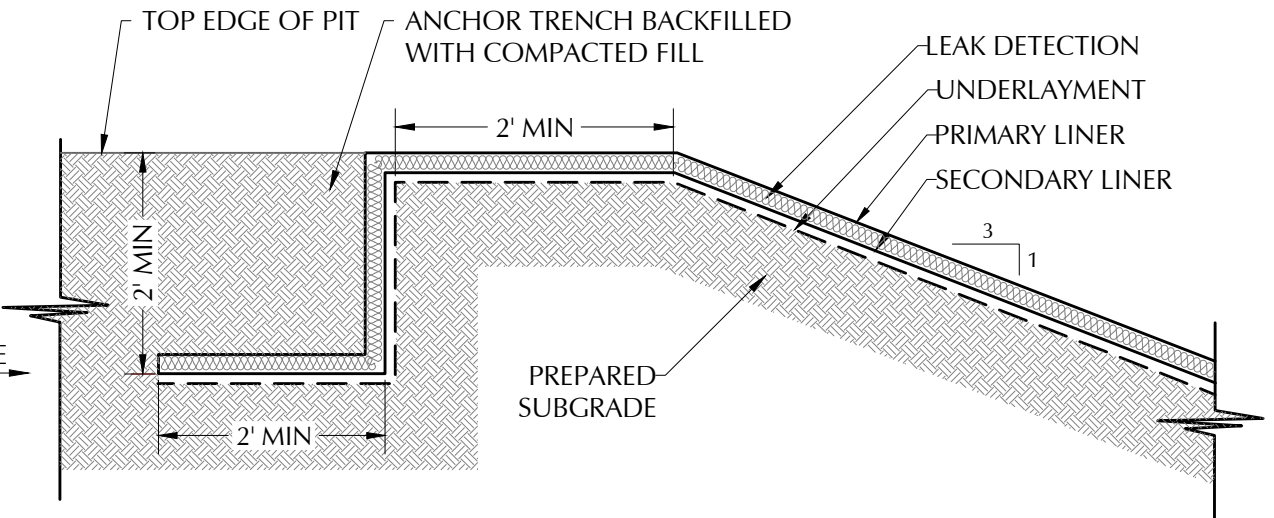


TYPICAL BERM CREST DETAIL

Not to Scale

10

4-5 12



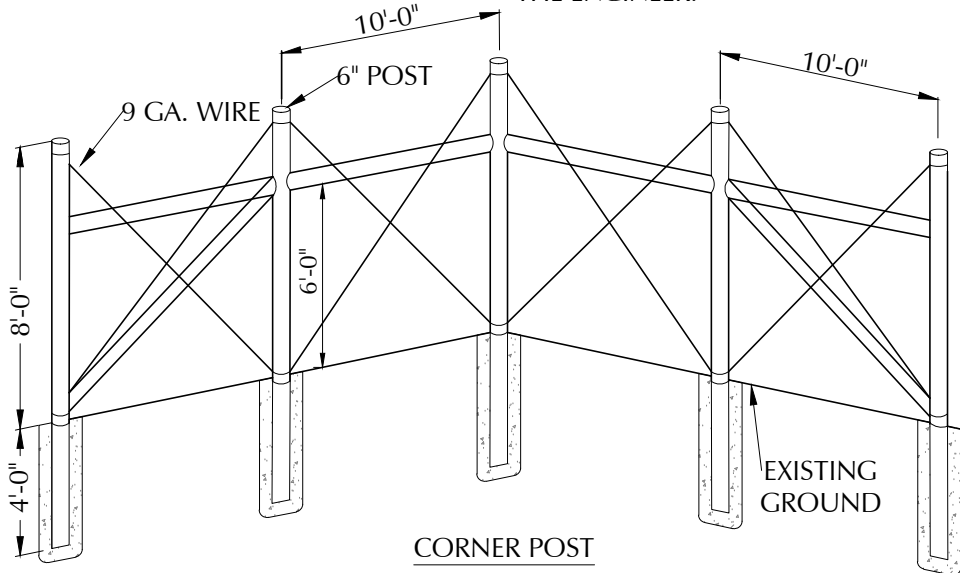
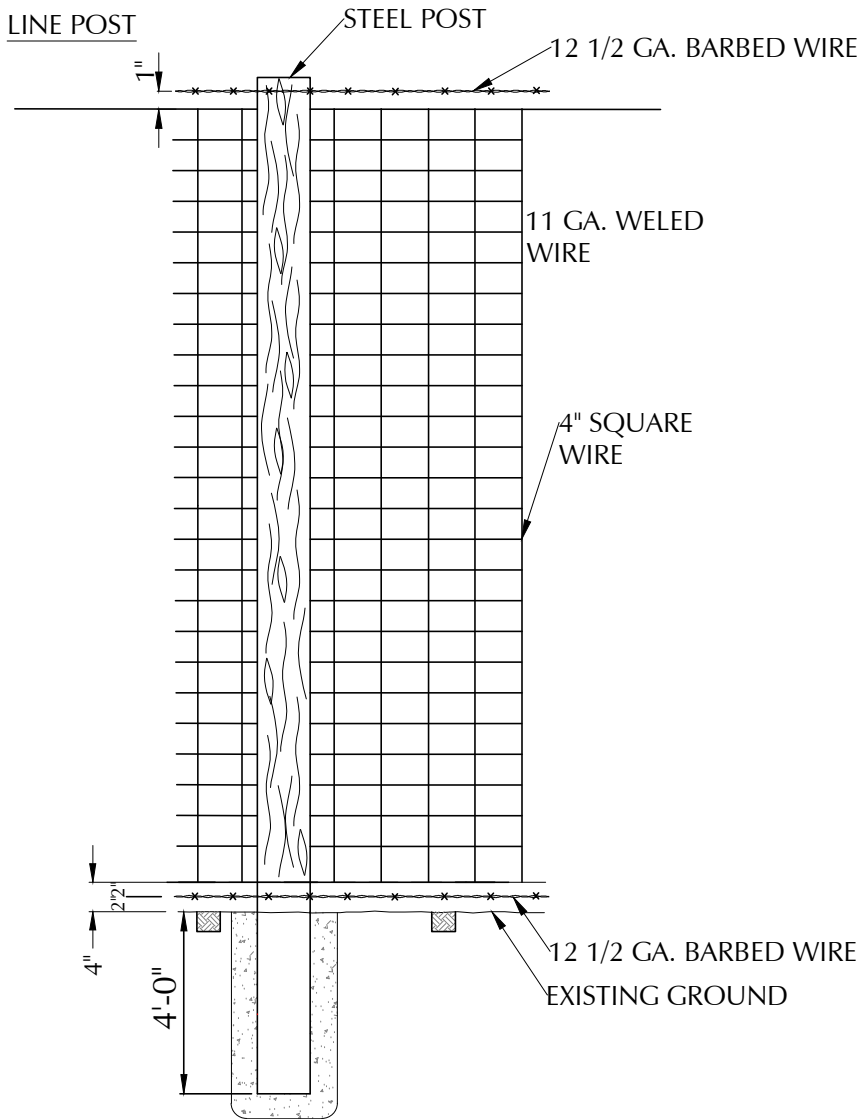
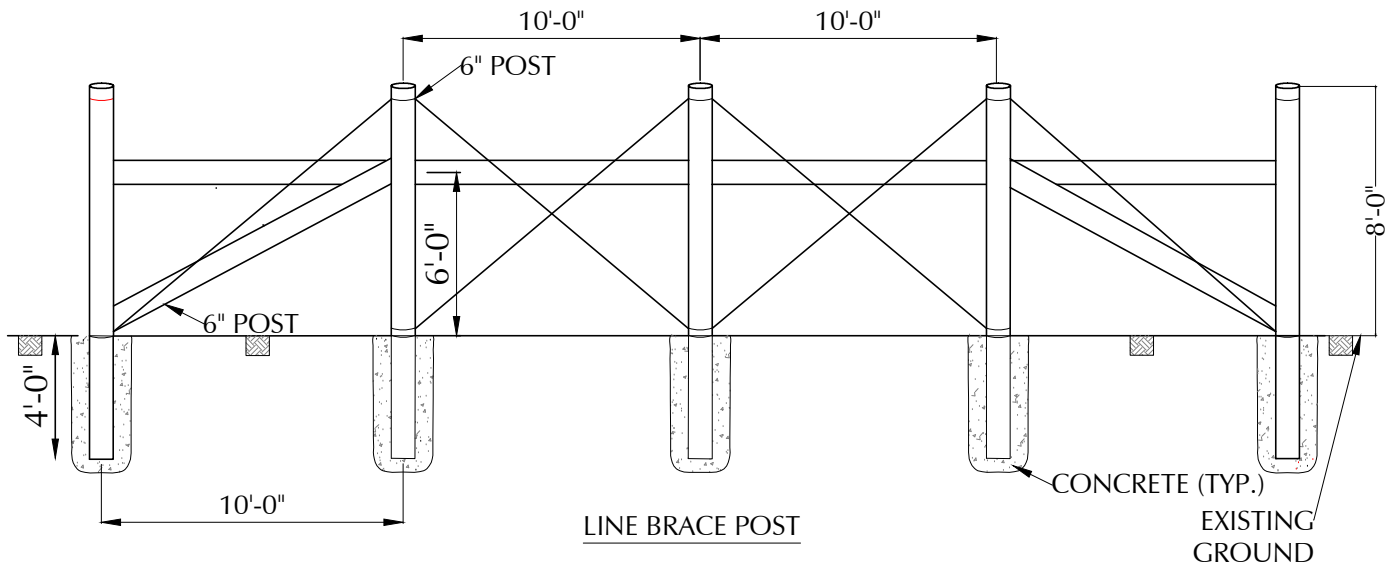
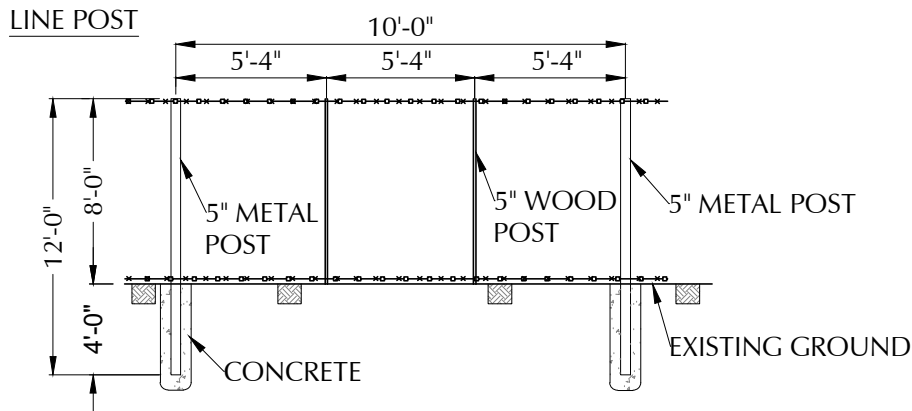
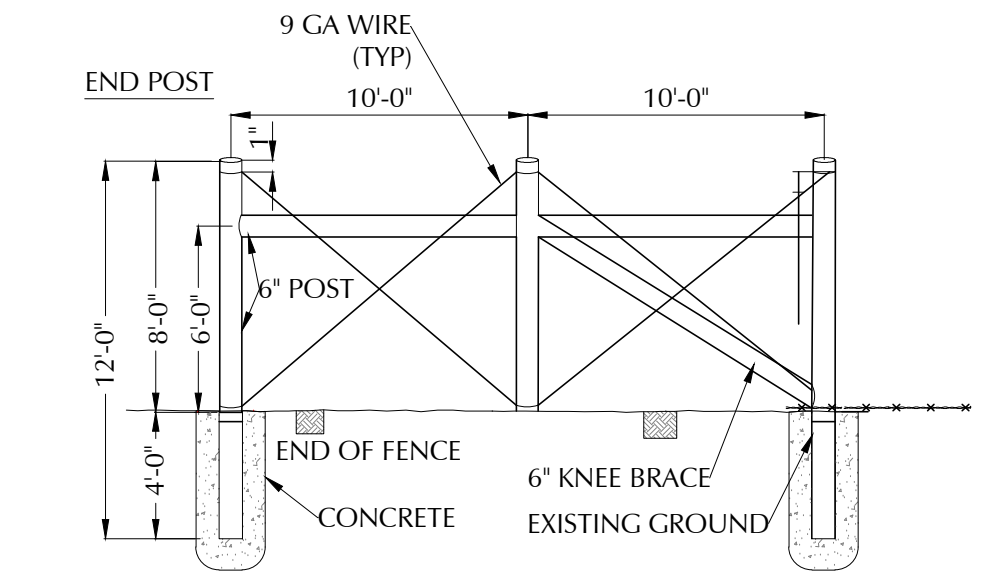
ANCHOR TRENCH DETAIL

Not to Scale

11

4-5 12

NO.	DATE	DESCRIPTION



8-FT GAME FENCE DETAIL 12
Not to Scale

1. AT EACH LOCATION WHERE AN ELECTRIC TRANSMISSION, DISTRIBUTION OR SECONDARY LINE CROSSES A BARRIER FENCE, THE CONTRACTOR SHALL FURNISH AND INSTALL A GROUND CONFORMING TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE- THE GROUND ROD SHALL OE A MINIMUM DIAMETER OF 1/2-IN. AND 8-FT. IN LENGTH, AND DRIVEN AT LEAST 7 1/2 FT. INTO THE GROUND. THE ROD SHALL BE CONNECTED TO EACH WIRE WITH A MINIMUM AWG NO. 8 STRANDED COPPER WIRE. GROUNDING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
2. LINE BRACE POSTS SHALL BE SPACED AT 400 FT. INTERVALS, WHERE FENCING IS CONTINUOUS AND WHERE END, CORNER AND LINE BRACE POSTS ARE NOT SPECIFIED.
3. ALL LINE POSTS SHALL BE 5 IN. MIN. DIAMETER AND 12 FT. LONG. ALL END, CORNER AND LINE BRACE POSTS SHALL BE 6 IN. MIN. DIAMETER AND 12 FT. LONG.
4. BARBED WIRE SHALL BE DOUBLE WRAPPED AND TIED OFF AT END POSTS, CORNER POSTS AND LINE BRACE POSTS.
5. WOVEN WIRE SHALL BE SINGLE WRAPPED AND TIED OFF. FENCE TO BE CONTINUED, SHALL BE RESTARTED IN LIKE MANNER. WOVEN WIRE FENCE FABRIC SHALL CONFORM TO AASHTO M 279 (ASTM A 116) DESIGN NO. 1047-6-11 WITH CLASS I COATING.
6. STEEL BARBED WIRE SHALL CONFORM TO AASHTO M 200 (ASTM A 121) 12-1/2 GAGE WITH CLASS 1 COATING.
7. ALL FENCE WIRE TIES, BRACE WIRES, STAPLES AND OTHER WIRE APPURTENANCES SHALL BE GALVANIZED IN CONFORMANCE WITH AASHTO M 232.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING DISTURBED OR DESTROYED SURVEY MONUMENTS TO THE APPROPRIATE ACCURACY.
9. ALL MISCELLANEOUS HARDWARE SHALL BE FURNISHED GALVANIZED OR ALUMINUM COATED. ALL METAL PIPE POSTS SHALL BE CAPPED.
10. READY MIX CONCRETE MAY BE USED AS A SUBSTITUTE FOR CLASS "A" CONCRETE FOR THE CONCRETE FOOTING IF APPROVED BY THE ENGINEER.



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Enid, Oklahoma
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PE #29736 - Expiration Date: 12-31-2024

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NO.	DATE	DESCRIPTION

SELECT

FENCE DETAILS

NORTHCUTT RECYCLE FACILITY

SELECT ENERGY SERVICES, LLC

PERMIT MODIFICATION

SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

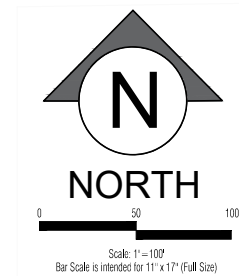
DATE: May 2024
SCALE: NOT TO SCALE
DESIGNED BY: R. MOHAN
DRAWN BY: K. TALBOTT
CHECKED BY: M. RATKE
PROJECT NO. 024180-00
SHEET NO. 13 OF ##

Released to: Imaging-6/5/2024 2:06:13 PM

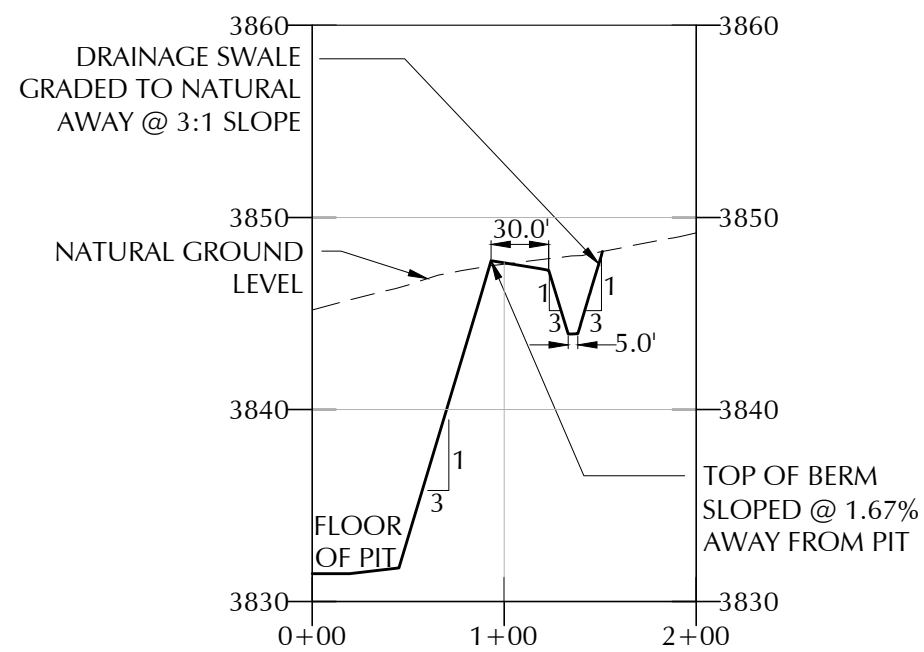


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NO.	DATE	DESCRIPTION



Not to Scale

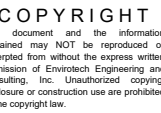
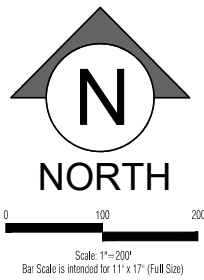


CROSS SECTION F-F

STORAGE PIT DRAINAGE DETAIL
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

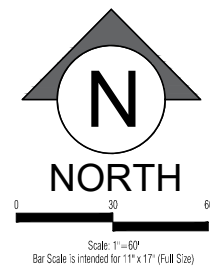
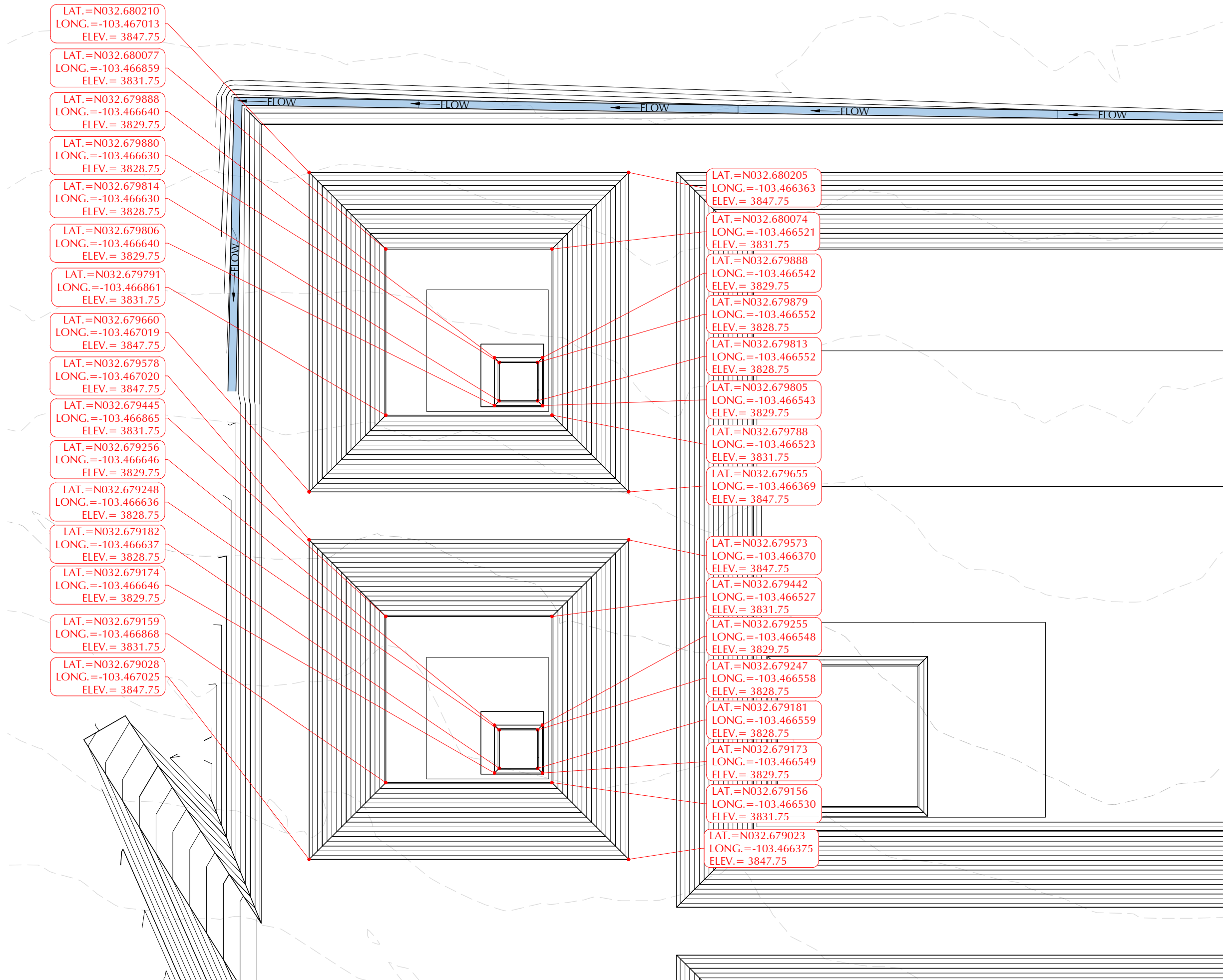
DATE:	May 2024
SCALE:	1" = 100'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	

14 OF ##

[illegible]

STAKING PLAN
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	1" = 200'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOT
CHECKED BY:	M. RATKIN
PROJECT NO.	024180-00
SHEET NO.	15 OF ##



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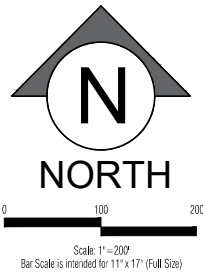
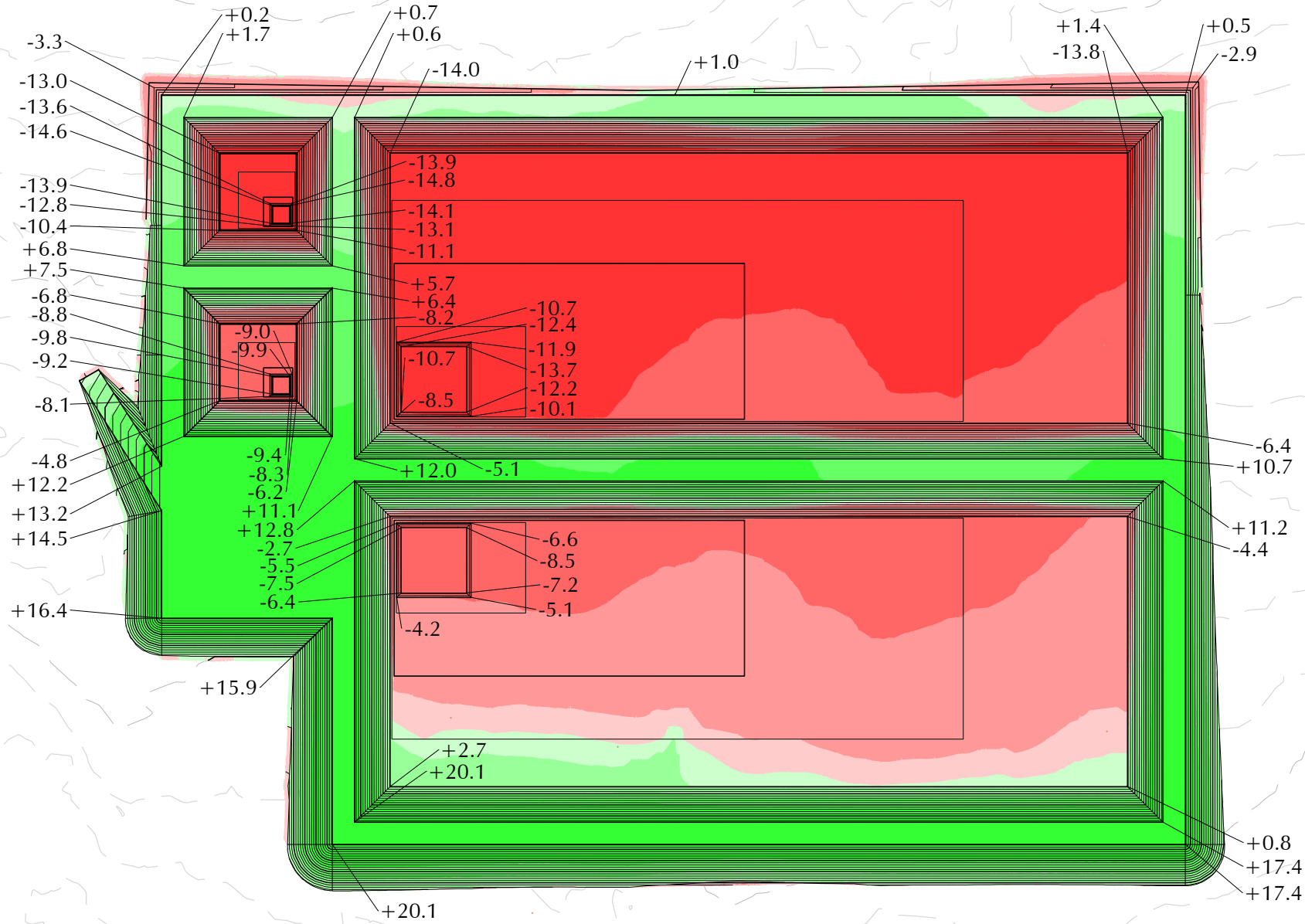
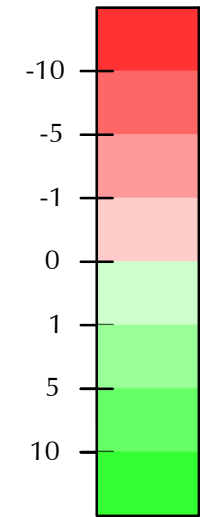
NO.	DATE	DESCRIPTION



TREATMENT PIT STAKING PLAN
NORTHCUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC

PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	1" = 60'
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	16 OF ##



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[illegible]

NORTHUTT RECYCLE FACILITY
SELECT ENERGY SERVICES, LLC
PERMIT MODIFICATION
SECTION 09, TOWNSHIP 19 SOUTH, RANGE 5 EAST.

DATE:	May 2008
SCALE:	1" = 100'
SIGNED BY:	R. MOHAMED
DRAWN BY:	K. TALBOT
CHECKED BY:	M. RAHMAN
PROJECT NO.	024180
SHEET NO.	## OF ##

CONSTRUCTION QUANTITY ESTIMATES			
ITEMS	UNIT	QUANTITY	DESCRIPTION
PRIMARY LINER	S.F.	1,149,590	60- MIL HDPE SMOOTH LINER-BLACK. NORTH STORAGE PIT 528,207 - SOUTH STORAGE PIT 528,207 -NORTH TREATMENT PIT 46,588 -SOUTH TREATMENT 46,588
LEAK DETECTION LAYER	S.F.	1,149,590	200-MIL GEONET, NORTH STORAGE PIT 528,207 - SOUTH STORAGE PIT 528,207 -NORTH TREATMENT PIT 46,588 -SOUTH TREATMENT 46,588
SECONDARY LINER	S.F.	1,149,590	40-MIL HDPE SMOOTH LINER, NORTH STORAGE PIT 528,207 - SOUTH STORAGE PIT 528,207 -NORTH TREATMENT PIT 46,588 -SOUTH TREATMENT 46,588
UNDERLAYMENT	S.F.	1,149,590	10 OZ GEOTEXTILE, NORTH STORAGE PIT 528,207 - SOUTH STORAGE PIT 528,207 -NORTH TREATMENT PIT 46,588 -SOUTH TREATMENT 46,588
RUB SHEETS	S.F.	63,410	60-MIL HDPE SINGLE SIDED TEXTURE LINER - BLACK OR WHITE PER OWNER REQUEST, NORTH STORAGE PIT 24,646 - SOUTH STORAGE PIT 24,646 - NORTH TREATMENT PIT 7,056 -SOUTH TREATMENT 7,056
LEAK DETECTION PIPE (SOLID)	L.F.	298	8-IN DR-11.X SOLID NORTH STORAGE PIT 65 LF - SOUTH STORAGE PIT 65 LF -NORTH TREATMENT PIT 61 LF -SOUTH TREATMENT 61 LF
LEAK DETECTION (PERFORATED)	L.F.	224	8-IN DR-11.X PERFORAED NORTH STORAGE PIT 88 LF - SOUTH STORAGE PIT 88 LF -NORTH TREATMENT PIT 24 LF -SOUTH TREATMENT 24 LF
LEAK DETECTION ROCK	C.Y.	9.54	3/4" TO 2" WASHED RIVER ROCK. NORTH STORAGE PIT 3.75 CY - SOUTH STORAGE PIT 3.75 CY -NORTH TREATMENT PIT 1.02 CY -SOUTH TREATMENT PIT 1.02 CY
BERM CREST ROCK	C.Y.	4,587	PER OWNER REQUEST
FENCE	L.F.	5,645	8 FT. GAME FENCE
ACCESS GATE	EA.	1	ELECTRONICALLY OPERATED DOUBLE SLIDER GATE OR OWNER REQUEST
SUCTION LINES	EA.	PER REQUEST	TO BE INSTALLED PER OWNER REQUEST
SIGNAGE	LSUM.	PER REQUEST	MUST MEET NMAC 19.15.34.12 (C)
BIRD DETERRENT	EA.	PER REQUEST	AUDIBLE SYSTEM BIRD X MEGA BLASTER PRO, INSTALLED PER MANUAFACTURER SPEC

DIRT WORK QUANTITY ESTIMATES		
ITEMS	UNIT	QUANTITY
TOTAL CUT MATERIAL	C.Y.	232,236
TOTAL FILL MATERIAL	C.Y.	225,429
NET VOLUME (CUT)	C.Y.	6,807
CLEARING AND GRUBBING	AC	34.9
TOPSOIL TO BE STOCKPILED	C.Y.	28,130

NOTES

GENERAL NOTES

- TOPOGRAPHIC AND UTILITY SURVEY PROVIDED BY TOPOGRAPHIC LAND SURVEYORS, BENBROOK, TX OFFICE, WITH MIKE MILLER RPLS AS PROJECT MANAGER. SURVEY BEARINGS, DISTANCES, AND COORDINATE VALUES ARE BASED ON NAD 1983 NEW MEXICO STATE PLANE EAST ZONE, US SURVEY FEET.
- ALL CONTRACTORS SHALL LOCATE AND IDENTIFY ALL UTILITIES BEFORE ANY WORK COMMENCES.
- QUANTITIES SHOWN ARE ESTIMATES. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THEIR OWN QUANTITIES.

EARTHWORK NOTES

- REFERENCE COZ ENGINEERING REPORT 4224036 FOR GEOTECHNICAL ANALYSIS OF THE PROJECT LOCATION.
- TOPSOIL SHALL BE STRIPPED TO A DEPTH OF 6-INCHES. AFTER STRIPPING, TOPSOIL WILL BE STORED IN A DESIGNATED TOPSOIL STORAGE AREA. TOPSOIL WILL BE PLACED ON EXTERIOR BERMS TO ESTABLISH FINAL GRADE AS NECESSARY.
- TOTAL CUT AND FILL QUANTITIES PROVIDED INCLUDE REMOVAL AND PLACEMENT OF TOPSOIL.
- DIRT WORK QUANTITY FILL ESTIMATE INCLUDES A 20% FILL FACTOR.
- STRUCTURAL FILL FOR BERMS WILL BE SOURCED FROM CUT MATERIAL GENERATED DURING PIT CONSTRUCTION UNLESS A DESIGNATED SOIL BORROW IS REQUESTED BY CLIENT AND APPROVED BY ENGINEER.
- STRUCTURAL FILL FOR BERMS SHALL BE PLACED IN MAXIMUM 8-IN LOOSE LIFTS, COMPACTED OT 95% STANDARD PROCTOR (ASTM D698), AND MOISTURE CONDITIONED TO +/- 2% OPTIMUM MOISTURE (ASTM D698).
- ALL BERM SLOPES SHALL HAVE A FINAL GRADE OF 3:1.
- INTERIOR BERMS, BERM TOPS, AND PIT FLOORS SHALL BE SMOOTH DRUM ROLLED TO REDUCE LOCALIZED STRESS ON LINER.
- ALL ELEVATIONS SHOWN ARE TOP OF FINAL GRADE.
- EXCESS CUT MATERIAL TO BE PLACED IN LOCATION DESIGNATED BY OWNER.
- FACILITY OWNER OR OWNER AURTHORIZED PERSONNEL SHALL APPROVE SUBGRADE CONDITIONS BEFORE UNDERLAYMENT INSTALLATION BEGINS.

LINER NOTES

- UNDERLAYMENT SHALL BE PLACED AFTER APPROVAL OF SUBGRADE BY OWNER.
- ALL GEOSYNTHETICS SHALL BE INSTALLED PER OWNER'S LINER INSTALLATION MANUAL.
- LINER ESTIMATES ACCOUNT FOR ANCHOR TRENCH. LINER ESTIMATES DO NOT ACCOUNT FOR SEAM OVERLAP OR WASTE.



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NO.	DATE	DESCRIPTION



BID QUANTITIES & NOTES

NORTHCUTT RECYCLE FACILITY

SELECT ENERGY SERVICES, LLC

PERMIT MODIFICATION

SECTION 09, TOWNSHIP 19 SOUTH, RANGE 35 EAST,
LEA COUNTY, NEW MEXICO

DATE:	May 2024
SCALE:	NOT TO SCALE
DESIGNED BY:	R. MOHAN
DRAWN BY:	K. TALBOTT
CHECKED BY:	M. RATKE
PROJECT NO.	024180-00
SHEET NO.	18 OF 18

Released to: Imaging-6/5/2024 2:06:13 PM

BID QUANTITIES & NOTES.dwg

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Wednesday, June 5, 2024 11:55 AM
To: Timsan Bricker; John McGillis; Mitchell Ratke
Subject: 1RF-523 - NORTHCUTT RECYCLING FACILITY ID [fVV2412237634]
Attachments: C-147 1RF-523 - NORTHCUTT RECYCLING FACILITY ID [fVV2412237634] 06.05.2024.pdf

1RF-523 - NORTHCUTT RECYCLING FACILITY ID [fVV2412237634]

Good morning Mr. McGillis,
NMOCDD has reviewed the permit modification request submitted by [289068] SELECT ENERGY SERVICES, LLC on May 31, 2024, Application ID 349857, for 1RF-523 - NORTHCUTT RECYCLING FACILITY ID [fVV2412237634] in Unit Letter D, Section 09, Township 19S, Range 35E, Lea County, New Mexico.

[289068] SELECT ENERGY SERVICES, LLC has requested a modification to the original Design and Construction Plan in order to change the size of the containments. The proposed modification, along with the new Design and Construction Plan, has been approved with the following Conditions of Approval:

- [289068] SELECT ENERGY SERVICES, LLC shall construct, operate, maintain, close, and reclaim 1RF-523 - NORTHCUTT RECYCLING FACILITY ID [fVV2412237634] in compliance with NMAC 19.15.34 NMAC.
- 1RF-523 - NORTHCUTT RECYCLING FACILITY ID [fVV2412237634] consists of four (4) inground containments. The total fluid capacity of 1RF-523 - NORTHCUTT RECYCLING FACILITY ID [fVV2412237634] is 2,192,930 BBL.
- The total closure cost estimated of 1RF-523 - NORTHCUTT RECYCLING FACILITY ID [fVV2412237634] in the amount of \$2,475,659.48, meets the requirements of NMAC 19.15.34.15.A.
- The financial assurance should be mailed to:

EMNRD - Oil Conservation Division
Administration and Compliance Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505

- [289068] SELECT ENERGY SERVICES, LLC will continue to operate, maintain, and close 1RF-523 - NORTHCUTT RECYCLING FACILITY ID [fVV2412237634] in compliance with 19.15.34 NMAC, to include but not limited detailed inspection records, removal of trash/oil from containment, and monthly C-148 reporting (even if there is zero activity).
- SELECT ENERGY SERVICES, LLC is required to provide all the necessary information on Form C-148. The form contains a row for each containment to fill in. The total at the end of the form should be for the facility.
- No changes to the operations procedures, maintenance, monitoring procedures, or closure procedures will be made aside from the requested Modification.

Please let me know if you have any additional questions.
Regards,

Victoria Venegas • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. Artesia, NM 88210
(575) 909-0269 | Victoria.Venegas@emnrd.nm.gov
<https://www.emnrd.nm.gov/oecd/>



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
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 349857

CONDITIONS

Operator: SELECT ENERGY SERVICES, LLC 1820 N I-35 Gainesville, TX 76240	OGRID: 289068
	Action Number: 349857
	Action Type: [C-147] Water Recycle Long (C-147L)

CONDITIONS

Created By	Condition	Condition Date
vvenegas	289068] SELECT ENERGY SERVICES, LLC has requested a modification to the original Design and Construction Plan in order to change the size of the containments. The proposed modification, along with the new Design and Construction Plan, has been approved. • [289068] SELECT ENERGY SERVICES, LLC will continue to operate, maintain, and close 1RF-523 - NORTHCUTT RECYCLING FACILITY ID [fVV/2412237634] in compliance with 19.15.34 NMAC, to include but not limited detailed inspection records, removal of trash/oil from containment, and monthly C-148 reporting (even if there is zero activity). • No changes to the operations procedures, maintenance, monitoring procedures, or closure procedures will be made aside from the requested Modification.	6/5/2024