

# **MUNICIPAL SOLID WASTE PERMIT MAJOR AMENDMENT**

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## **PART III-ATTACHMENT D3 CONSTRUCTION DESIGN DETAILS**



***NAME OF PROJECT: Beck Landfill***

***MSW PERMIT APPLICATION NO.: 1848A***

***OWNER: Nido, LTD (CN603075011)***

***OPERATOR: Beck Landfill (RN102310968)***

***CITY, COUNTY: Schertz, Guadalupe County***

***Major Amendment: Revised July 2023***

Prepared by:



Civil & Environmental Consultants, Inc.

Texas Registration Number F-38

1221 S MoPac Expressway

Suite 350,

Austin, Texas 78746

(512) 329-0006



List of Figures

D3.1 Final Cover and Liner Details

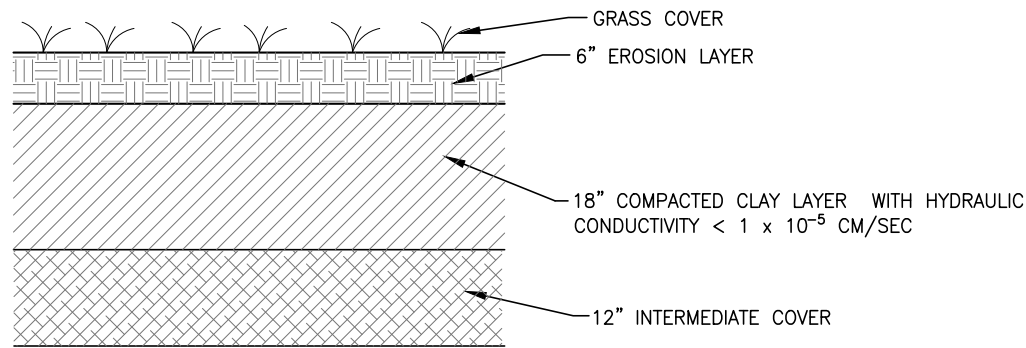
D3.2 Final Cover Tie-In Detail



P:\310-000\311-653\CADD\DWG\SW01\DWG\_FINAL COVER AND LINER DETAILS.dwg\3 FINAL COVER AND LINER DETAILS.dwg\3 FINAL COVER AND LINER DETAILS.dwg

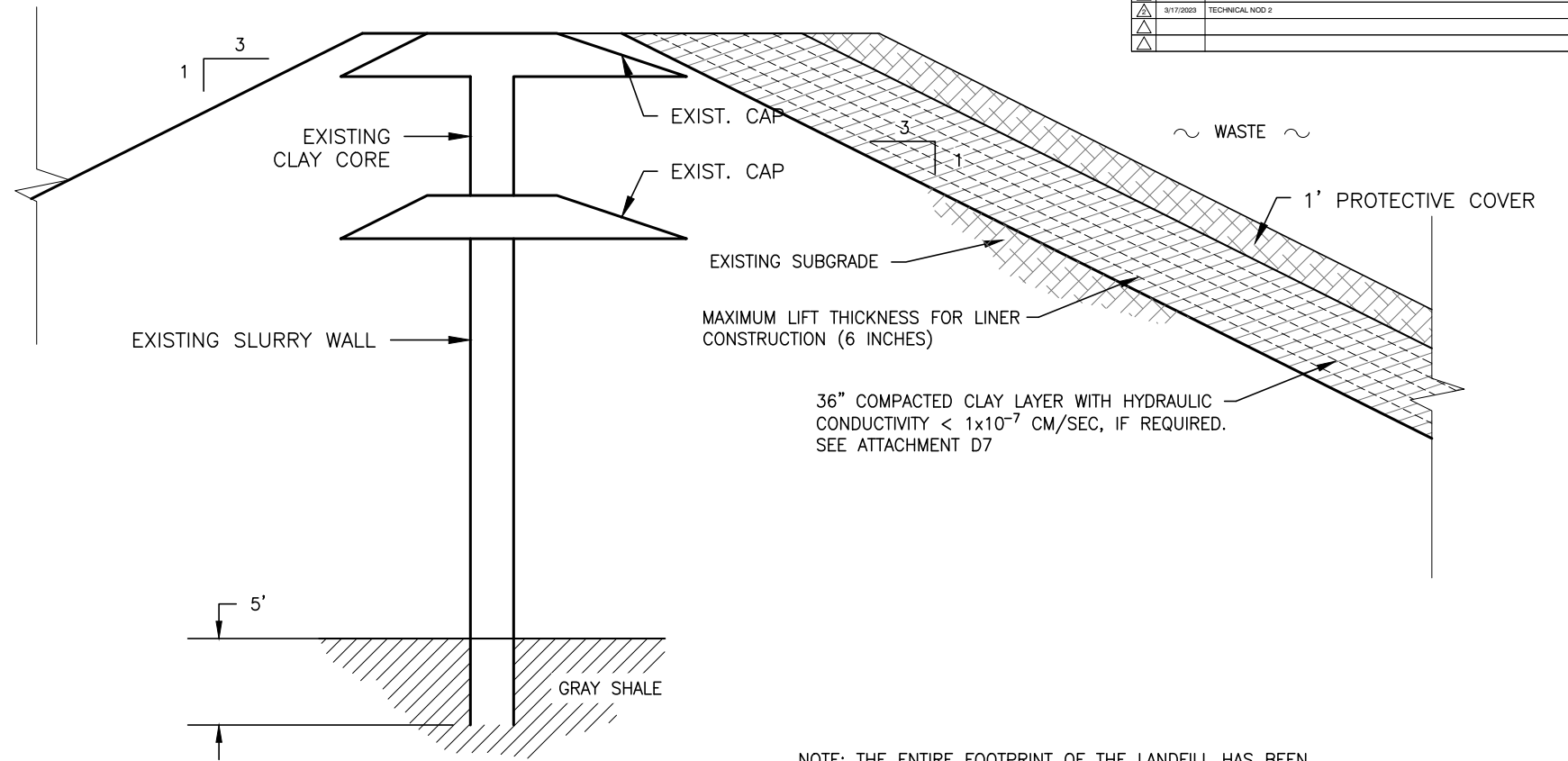
| REVISION RECORD |           |                 |
|-----------------|-----------|-----------------|
| NO              | DATE      | DESCRIPTION     |
| 1               | 1/2/2023  | TECHNICAL NOD 1 |
| 2               | 3/17/2023 | TECHNICAL NOD 2 |

NOTE: THE IN-SITU LINER HAS AT LEAST FOUR FEET OF IN-SITU SOIL BETWEEN THE DEPOSITED WASTE AND GROUNDWATER. THE IN-SITU SOIL CONSTITUTES AN IN-SITU LINER AND MEETS ALL THE PHYSICAL PROPERTIES FOR A CONSTRUCTED LINER AS DETAILED IN §330.339(C)(5). THE IN-SITU LINER WAS EXCAVATED TO THE DEPTH NECESSARY TO ENSURE THAT IT DID NOT EXHIBIT PRIMARY OR SECONDARY PHYSICAL FEATURES SUCH AS JOINTING, FRACTURES, BEDDING PLANES, SOLUTION CAVITIES, ROOT HOLES, DESICCATION SHRINKAGE CRACKS ETC., THAT HAVE A COEFFICIENT OF PERMEABILITY GREATER THAN  $1 \times 10^{-7}$  CM/SEC;



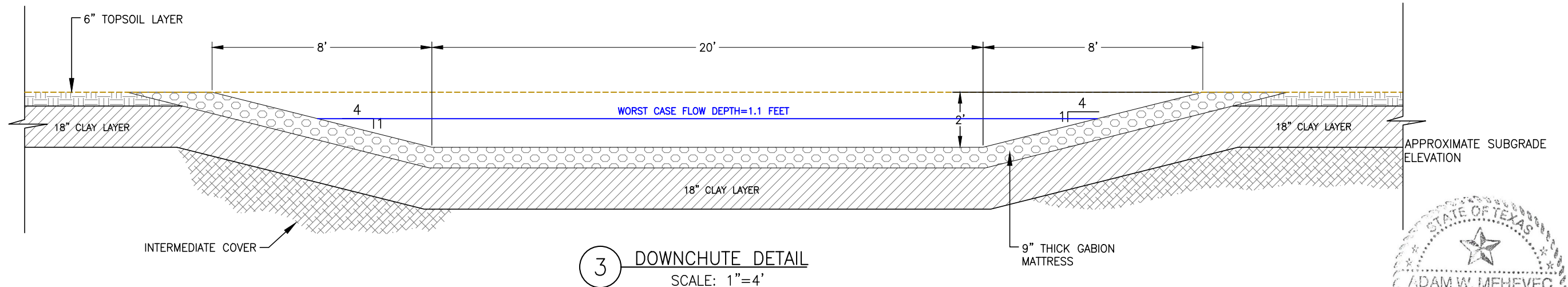
NOTE: SEE FIGURE D3-2 FOR TIE-IN BETWEEN FINAL COVER AND PERIMETER BERM

**1** FINAL COVER DETAIL  
N.T.S.

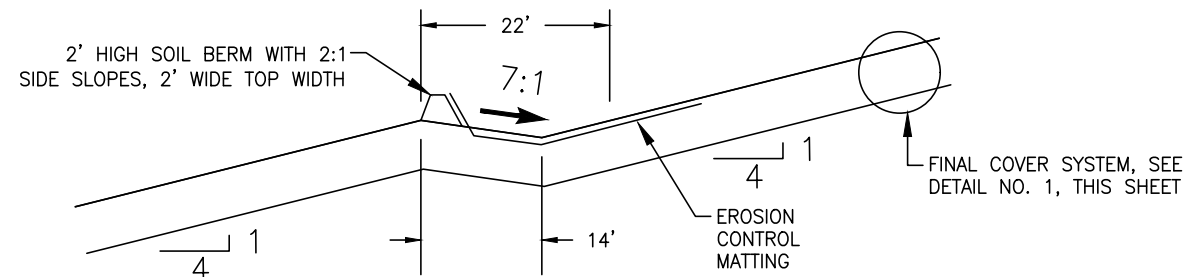


NOTE: THE ENTIRE FOOTPRINT OF THE LANDFILL HAS BEEN PREVIOUSLY CONSTRUCTED AND HAS WASTE IN PLACE. THIS DETAIL WILL ONLY BE USED IF THERE IS A NEED TO EXCAVATE A PORTION OF THE LINER AND RECONSTRUCT IT.

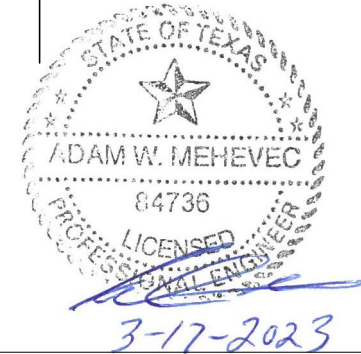
**2** OPTIONAL SIDEWALL LINER DETAIL  
N.T.S.



**3** DOWNCHUTE DETAIL  
SCALE: 1"=4'



**4** TYPICAL BENCH

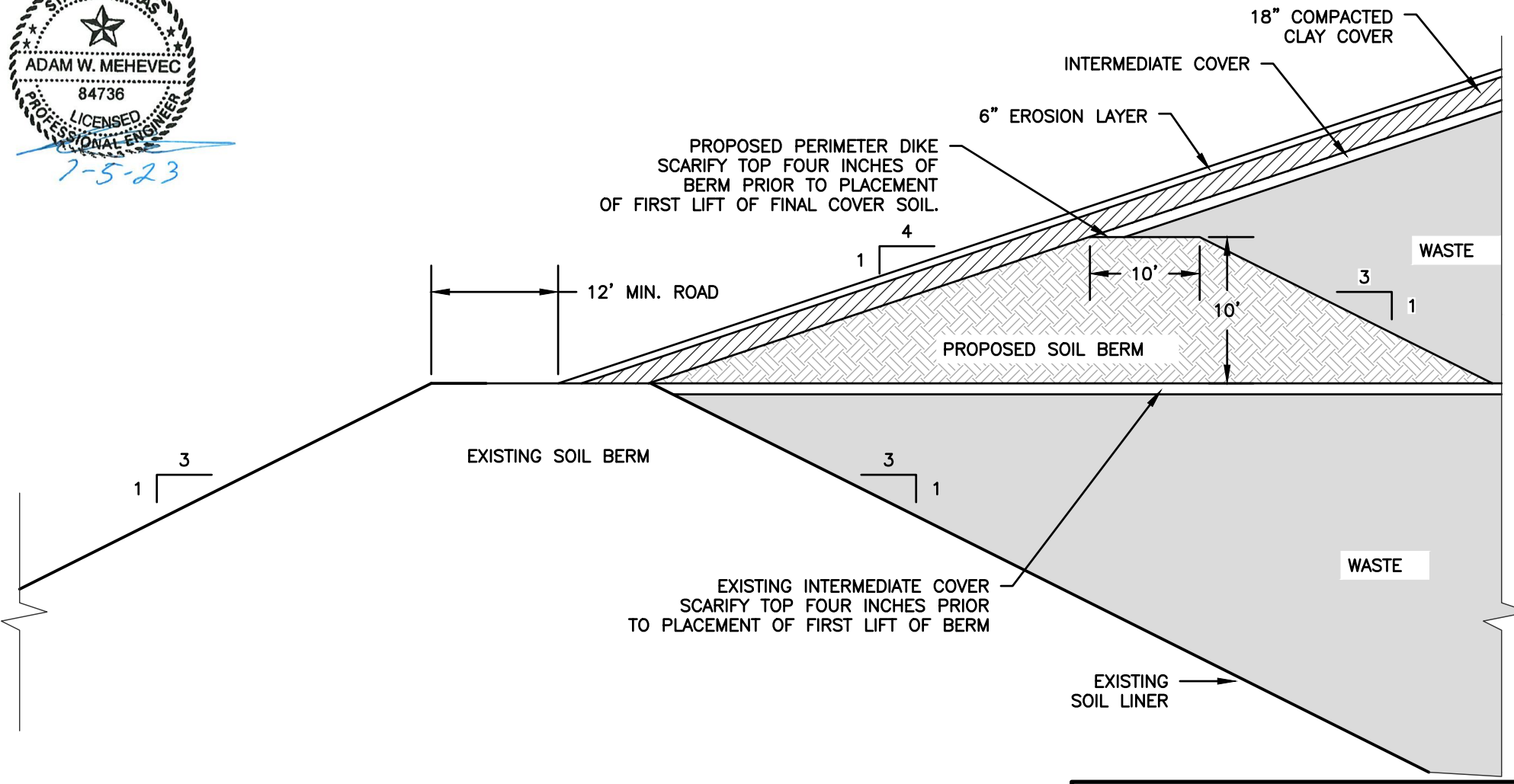


|                                                                                                                                                                                                                                                                                 |         |                                                                                                                                                     |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <br><b>Civil &amp; Environmental Consultants, Inc.</b><br>3711 South MoPac Expressway · Building 1, Suite 550 · Austin, TX 78746<br>Ph: 512.439.0400 · Fax: 512.329.0096<br>www.cecinc.com |         | <br><b>NIDO, LTD<br/>BECK LANDFILL<br/>BEXAR COUNTY, TEXAS</b> |             |
| <b>FINAL COVER AND LINER DETAILS</b>                                                                                                                                                                                                                                            |         |                                                                                                                                                     |             |
| DRAWN BY:                                                                                                                                                                                                                                                                       | BEO     | CHECKED BY:                                                                                                                                         | AWM         |
| DATE:                                                                                                                                                                                                                                                                           | 08/2022 | DWG SCALE:                                                                                                                                          | AS NOTED    |
| APPROVED BY:                                                                                                                                                                                                                                                                    | AWM     | FIGURE NO.:                                                                                                                                         | <b>D3.1</b> |
| PROJECT NO.:                                                                                                                                                                                                                                                                    | 311-653 |                                                                                                                                                     |             |

P:\310-000\311-653\ -CADD\DWG\SW01\ D3 FINAL COVER AND LINER DETAILS-D3-2.dwg[D3-2] LS:(7/3/2023 - amehevec) -- LP: 7/3/2023 5:47 PM



7-5-23



| REVISION RECORD |           |                                         |
|-----------------|-----------|-----------------------------------------|
| NO              | DATE      | DESCRIPTION                             |
| 1               | 3/17/2023 | TECHNICAL MOD 2                         |
| 2               | 7/5/2023  | TECH MOD 3-EXTEND FINAL COVER DOWN BERM |
|                 |           |                                         |
|                 |           |                                         |

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**BECK**  
**COMPANIES**

NIDO, LTD  
 BECK LANDFILL  
 BEXAR COUNTY, TEXAS

NOTE: SEE FIGURE D3.1 FOR FINAL COVER DETAILS.

**FINAL COVER TIE-IN DETAIL**

|           |         |             |     |              |         |             |             |
|-----------|---------|-------------|-----|--------------|---------|-------------|-------------|
| DRAWN BY: | MFV     | CHECKED BY: | AWM | APPROVED BY: | AWM     | FIGURE NO.: | <b>D3.2</b> |
| DATE:     | 03/2023 | DWG SCALE:  | NTS | PROJECT NO:  | 311-653 |             |             |