

# **MUNICIPAL SOLID WASTE PERMIT MAJOR AMENDMENT**

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## **PART III-ATTACHMENT D1 SITE LAYOUT**



***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 September 2023***

Prepared by:



Civil & Environmental Consultants, Inc.

Texas Registration Number F-38  
3711 S MoPac Expressway  
Building 1 Suite 550,  
Austin, Texas 78746  
(512) 329-0006



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## 1.0 GENERAL

The Beck Landfill, located at 550 FM 78 in Schertz, Texas Guadalupe County, is an existing Type IV Solid Waste Disposal Facility which accepts brush, construction and demolition waste, and/or rubbish in accordance with applicable State and Federal regulations. The Beck Landfill may not accept putrescible wastes, conditionally exempt small-quantity generator waste, or household wastes. The facility may accept Class 2 and Class 3 non-hazardous industrial wastes in accordance with 30TAC§330.173(i) and (j) provided the acceptance of these wastes does not interfere with facility operation. The waste acceptance plans in Part II and Part IV of the application contain additional details related to types of waste and management procedures.

The facility is currently owned by Cibolo Industries, Ltd. and operated by Nido, Ltd. The initial facility was given provisional authorization in 1985 by the Texas Department of Health (TDH). The provisional authorization required that the facility file a MSW landfill permit application to obtain permanent authorization by November 8, 1985. MSW Permit 1848 was issued by the TDH in 1989. At the time of the 1989 application to the TDH, the applicant documented that waste disposal was taking place “in the south west end of the site, and in the north west portion of the site. These areas contain the ancient fill from Randolph Air Force Base, and part of the fill which has been placed while operating under the "Grandfather Status" set out in the compliance letter from the Texas Department of Health Bureau of Solid Waste Management dated October 16, 1985.

In addition, the application documented that gravel was “being removed from this area around the old Randolph Air Force Base fill. In general, the old fill is not being disturbed. When edges of the fill are encountered, excavation is halted and the exposed face is investigated. If the characteristics of the fill are proper, the fill is covered immediately. Scattered and random surficial fill materials, usually 4 feet or less in depth, as well as improperly installed fills, as encountered in areas from which gravel is to be removed, are relocated to the current fill placement area, and placed in accordance with current TDH regulations.”

This amendment application seeks to increase the maximum permitted height of the disposal unit as depicted on the drawings included in Part III-Appendix D. No change in the permitted landfill

footprint is proposed. The entire footprint of the disposal area has been previously excavated and partially filled, so no changes to the bottom excavation grades are proposed. The maximum permitted top of final cover elevation is proposed to be increased from 771 feet MSL to 889 feet MSL. No significant operational changes are being proposed as part of this amendment request.

The facility entrance includes a scale, scalehouse/office building, and parking area for landfill employees. A gate located at the entrance to the facility is locked by site personnel at the end of the day's operations. A fence, augmented by Cibolo Creek provide continuous security of the perimeter of the permit boundary.

A floodplain protection levee has been constructed around the entire footprint to isolate the waste from the 100-year flood event.

The initiation and completion of final cover may occur in incremental phases with the completion of waste fill.

Groundwater monitoring and landfill gas monitoring are on-going activities throughout the life of the site. All groundwater monitoring wells have been installed as described in Attachment F. All required landfill gas monitoring probes have been installed as described in Attachment G - Landfill Gas Management Plan.

Surface water detention ponds and drainage conveyances will be constructed concurrently as required by the degree of landfill development as shown on the operation fill sequence figures.

The proposed Schedule of Development for this site is identified in Table ATTD1-1 and depicted on Figures ATTD1.3 through ATTD1.6.

**Table ATTD1-1  
 Schedule of Development**

1.1	Waste fill activities continuing as MSW Permit No. 1848 authorizes. The entire footprint has already been excavated, the in-situ liner confirmed, and partially filled with waste. At issuance of this permit amendment application, MSW Permit No. 1848A, waste fill will begin to MSW 1848A grades. All monitor wells and gas probes have been previously constructed.
1.2	Initial construction of stormwater pond SP-1 to serve as sedimentation pond during filling activities. Final version of pond will be completed during construction of the final cover for the adjacent portion of the landfill. Excavation of material within floodplain to compensate for fill required to construct SP-1 will be completed.
1.3	Pond SP-1 is completed and maintenance and processing areas are relocated to the northeast corner of the landfill footprint.
1.4	Fill is completed and final cover construction is initiated.
<b>Operation - All Cells</b>	
2.1	Begin filling above existing waste in southern portion of the landfill.
2.2	Continue filling to MSW 1848A grades and progress to the north.
2.3	Complete filling of permit MSW 1848A.
<b>Closure/Post-Closure Care</b>	
3.1	Post closure signs
3.2	Notify TCEQ of intent to close.
3.3	Complete final cover for all uncovered areas.
3.4	Closure certification.
3.5	At completion of final cover, Affidavit to Public is filed to notify of complete closure of MSW Permit No. 1848A.

**2.0 EXCAVATION AND BOTTOM LINER CONSTRUCTION**

All cells at the Beck landfill have previously been constructed under MSW Permit 1848. No additional excavation or cell construction is proposed.

### **3.0 GENERAL FILLING SEQUENCE**

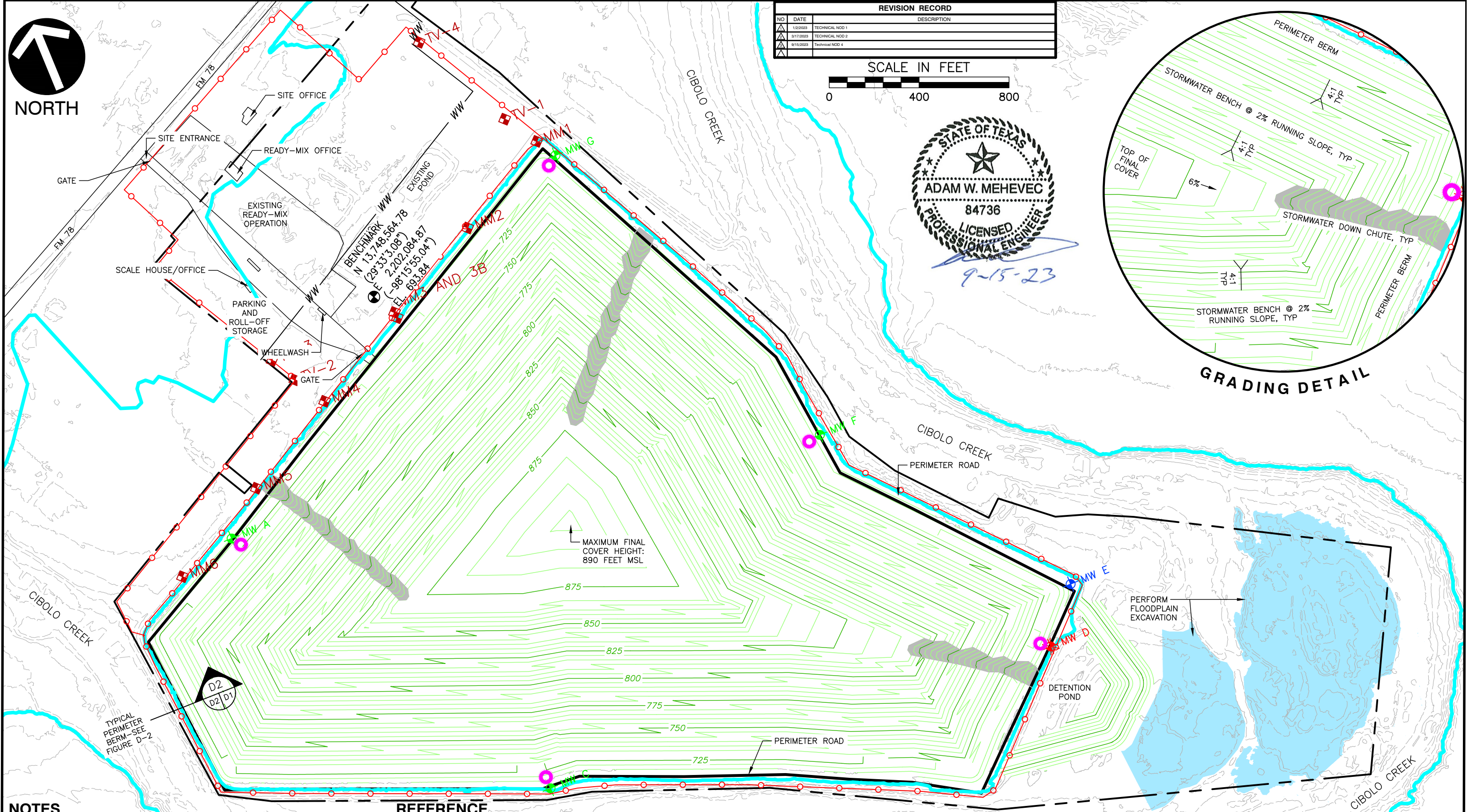
1. Establish the location of the initial working face and direction of fill.
2. Maintain a small working face as indicated within the Site Operating Plan. Place waste in 5-foot to 20-foot lifts as determined by the on-site operator. Construct stormwater run-on/runoff control berms in accordance with Part III, Attachment D6.

### **4.0 PHASED CLOSURE**

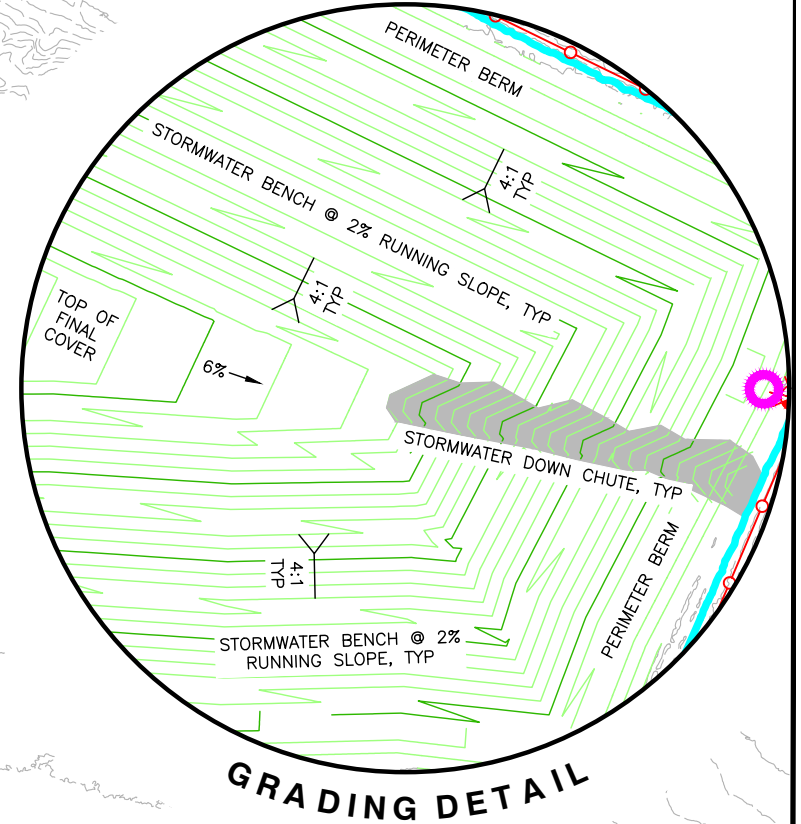
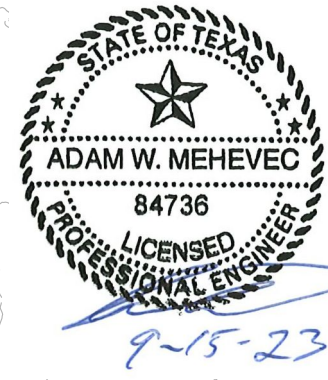
In general, portions of the site which have received final elevations will receive final cover, undergo quality control testing, and be officially closed as early as practical. Within 180 days after the last receipt of waste in any given area, that area will receive final cover. No later than 45 days prior to the initiation of closure activities for any given area, TCEQ will be notified of the intent to close that area, and a copy of the notice placed in the operating record. Upon notification of TCEQ of the intent to close any portion of the site, signs will be posted at the site identifying the extent of the closure area. Upon TCEQ notification of the intent to close the last portion of the site, signs at the site entrance will be posted stating the site closure date and that further disposal of waste at the site is prohibited. Final closure activities will be initiated 30 days after the known final receipt of waste achieving final elevations in closure area. Final closure of an area will be completed within 180 days after initiation of closure activities unless specific approval has been received from TCEQ allowing a longer period. Following completion of all final closure activities in any closure area, a certification will be submitted to the TCEQ, signed by an independent registered professional engineer, verifying closure in accordance with the approved closure plan. Within 10 days after completion of final closure activities, a final revised "Affidavit to the Public" will be submitted to the TCEQ, placed in the operating record, and filed as a certified notation on the property deed.

## **FIGURES**

P:\310-000\311-653\CADD\DWG\SW01\311653-BECK LANDFILL SITE LAYOUT PLAN D1-1.dwg[D1-1] LS:(9/6/2023 - amehevec) - LP: 9/6/2023 4:39 PM



REVISION RECORD		DESCRIPTION
NO	DATE	DESCRIPTION
▲	1/2/2023	TECHNICAL NOD 1
▲	3/17/2023	TECHNICAL NOD 2
▲	9/15/2023	TECHNICAL NOD 4



- NOTES**
- ALL AREAS WITHIN THE LANDFILL FOOTPRINT THAT DO NOT HAVE FINAL COVER MAY BE USED FOR SOIL STOCKPILES, BRUSH STORAGE AND GRINDING, OR VEHICLE PARKING AND MAINTENANCE.
  - ALL MONITOR WELLS AND GAS PROBES HAVE BEEN PREVIOUSLY INSTALLED. MONITOR WELL D IS BEING RELOCATED AND WILL BECOME MONITOR WELL E.
  - INTERIOR ACCESS AND PERIMETER ROADS SHALL BE SURFACED WITH CRUSHED STONE, GRAVEL, RECYCLED CONCRETE, OR EQUIVALENT ALL-WEATHER SURFACE.
  - SITE PERIMETER FENCING OR NATURAL BARRIERS WILL BE USED ALONG THE ENTIRE PERMIT BOUNDARY.
  - SOLID WASTE STORAGE AND PROCESSING AREAS WILL BE PLACED OUTSIDE OF THE 100-YEAR FLOODPLAIN OR WILL BE PROTECTED WITH A LEVEE THAT EXTENDS A MINIMUM OF ONE FOOT ABOVE THE FLOODPLAIN ELEVATION.
  - THERE ARE NO NATURAL WINDBREAKS, SUCH AS GREENBELTS, OR SCREENING PROPOSED FOR THE FACILITY.

**REFERENCE**

TOPOGRAPHIC INFORMATION FROM AERIAL SURVEY BY FIRMATEK: (SEPTEMBER 15, 2021) AUGMENTED WITH A PORTION OF THE EXISTING GROUND SURFACE PREPARED BY CEC.

LEGEND	
	EXISTING MONITOR WELL
	EXISTING GAS PROBE
	EXISTING PIEZOMETER
	MONITOR WELL TO BE REMOVED
	PROPOSED MONITOR WELL
	LANDFILL PERMIT BOUNDARY
	LANDFILL FOOTPRINT BOUNDARY
	100 YEAR FLOODPLAIN BASED ON LOMR APPLICATION
	LANDFILL CONTOURS ARE TOP OF FINAL COVER.
	FENCE (BARBED-WIRE OR CHAIN LINK)

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**BECK COMPANIES**

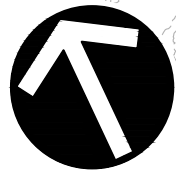
NIDO, LTD  
 BECK LANDFILL  
 BEXAR COUNTY, TEXAS

**SITE LAYOUT PLAN**

DRAWN BY: MFV	CHECKED BY: AWM	APPROVED BY: AWM	FIGURE NO.: D1.1
DATE: 08/2022	DWG SCALE: 1" = 40'	PROJECT NO: 311-653	

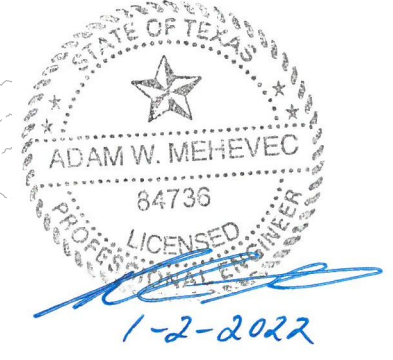


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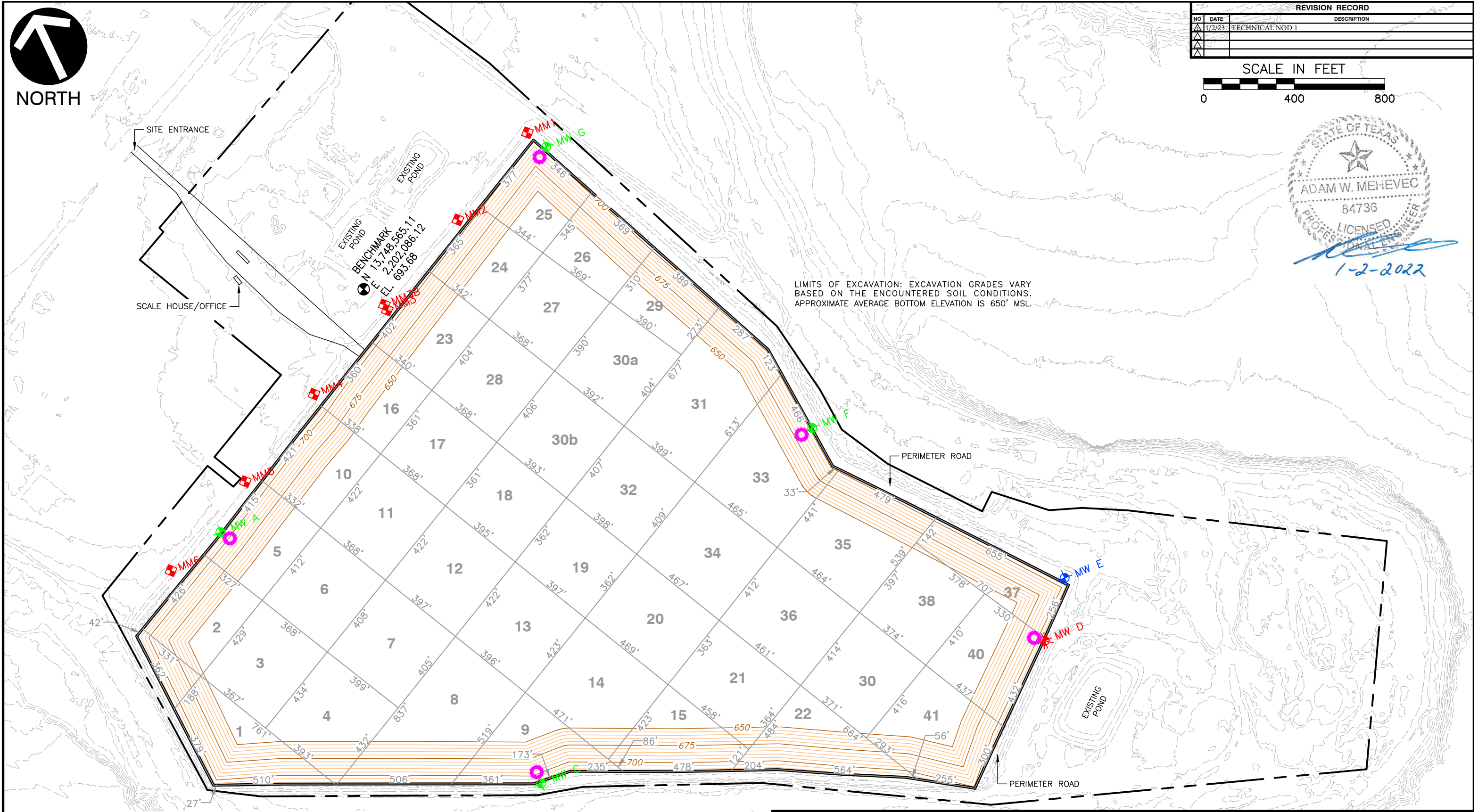


NORTH

REVISION RECORD		
NO	DATE	DESCRIPTION
1	12/23	TECHNICAL NOD 1



LIMITS OF EXCAVATION: EXCAVATION GRADES VARY BASED ON THE ENCOUNTERED SOIL CONDITIONS. APPROXIMATE AVERAGE BOTTOM ELEVATION IS 650' MSL.



**REFERENCE**

TOPOGRAPHIC INFORMATION FROM AERIAL SURVEY BY FIRMATEK: (SEPTEMBER 15, 2021) AUGMENTED WITH A PORTION OF THE EXISTING GROUND SURFACE PREPARED BY CEC.

**NOTES**

- EXCAVATION EMBANKMENTS ARE GRADED AT A 3:1 SLOPE.
- ALL CELLS HAVE BEEN PREVIOUSLY EXCAVATED AND PARTIALLY FILLED WITH WASTE.
- CELL DESIGNATIONS SHOWN ARE FROM CURRENT PERMIT AND REPRESENT THE GENERAL SEQUENCE IN WHICH THE CELLS WERE DEVELOPED.

**LEGEND**

- EXISTING MONITOR WELL
- EXISTING GAS PROBE
- EXISTING PIEZOMETER
- MONITOR WELL-TO BE REMOVED
- PROPOSED MONITOR WELL
- LANDFILL PERMIT BOUNDARY
- LANDFILL FOOTPRINT BOUNDARY

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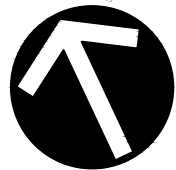
**BECK COMPANIES**

**NIDO, LTD  
 BECK LANDFILL  
 BEXAR COUNTY, TEXAS**

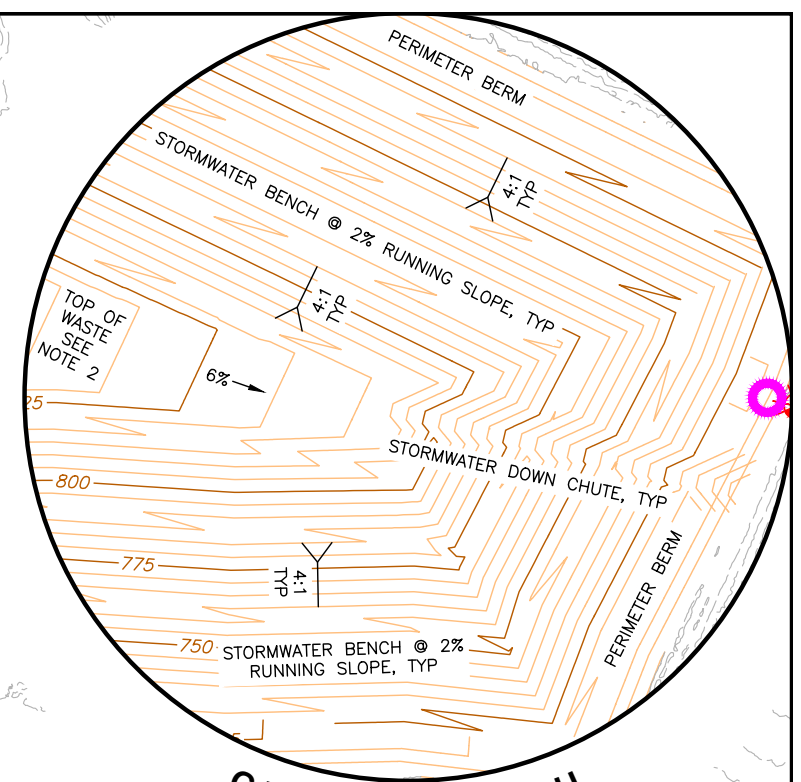
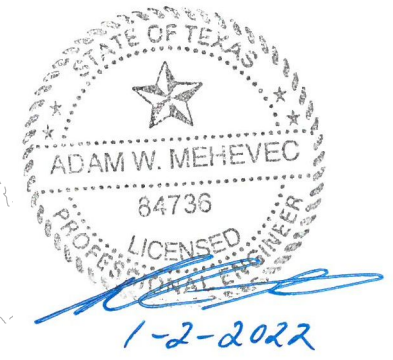
**EXCAVATION PLAN**

<b>DRAWN BY:</b>	MFV	<b>CHECKED BY:</b>	AWM	<b>APPROVED BY:</b>	AWM	<b>FIGURE NO.:</b>	D1.2
<b>DATE:</b>	08/2022	<b>DWG SCALE:</b>	1" = 400'	<b>PROJECT NO.:</b>	311-653		

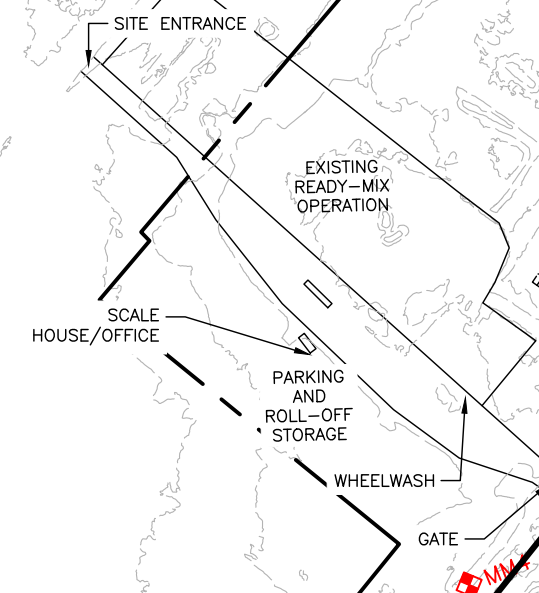
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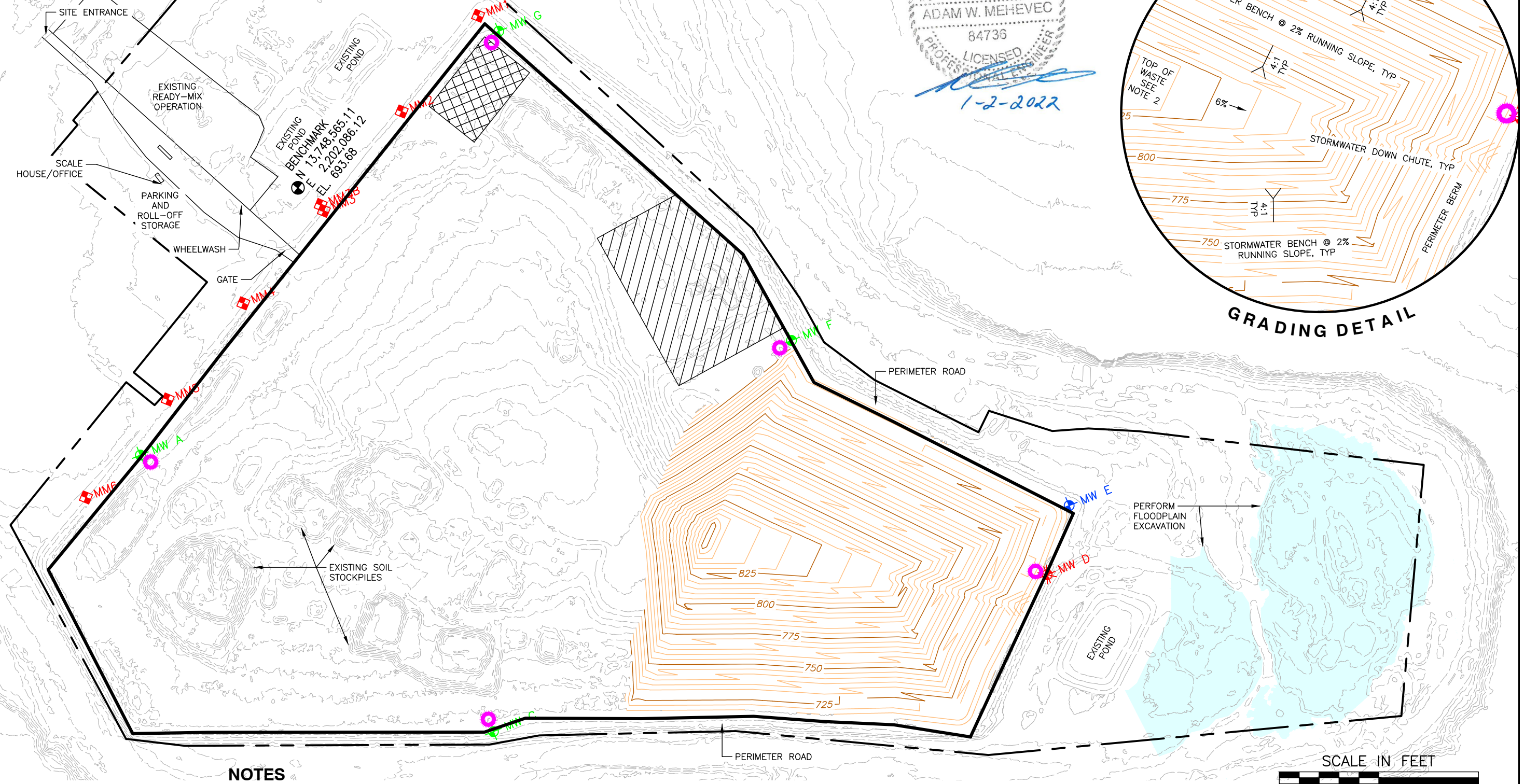
NORTH



GRADING DETAIL



BENCHMARK  
N 13.748.565.11  
E 2.202.086.12  
EL. 693.68



NOTES

1. ALL AREAS WITHIN THE LANDFILL FOOTPRINT THAT DO NOT HAVE FINAL COVER MAY BE USED FOR SOIL STOCKPILES, BRUSH STORAGE AND GRINDING, OR VEHICLE PARKING AND MAINTENANCE.
2. FILL SOUTHERN AREAS TO 1848A GRADES AND INSTALL INTERMEDIATE COVER.
3. INTERIM SLOPE FACE SHALL BE GRADED AT 3:1 MAXIMUM SLOPE.

LEGEND

	EXISTING MONITOR WELL		LANDFILL PERMIT BOUNDARY
	EXISTING GAS PROBE		LANDFILL FOOTPRINT BOUNDARY
	EXISTING PIEZOMETER		BRUSH/ROLL-OFF STORAGE AREA
	MONITOR WELL-TO BE REMOVED		MAINTENANCE AREA
	PROPOSED MONITOR WELL		

REFERENCE

TOPOGRAPHIC INFORMATION FROM AERIAL SURVEY BY FIRMATEK: (SEPTEMBER 15, 2021) AUGMENTED WITH A PORTION OF THE EXISTING GROUND SURFACE PREPARED BY CEC.



REVISION RECORD	
NO	DESCRIPTION
1	TECHNICAL NOD 1

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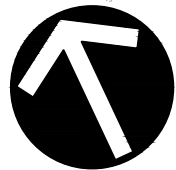
**B**  
**BECK**  
COMPANIES

**NIDO, LTD**  
**BECK LANDFILL**  
**BEXAR COUNTY, TEXAS**

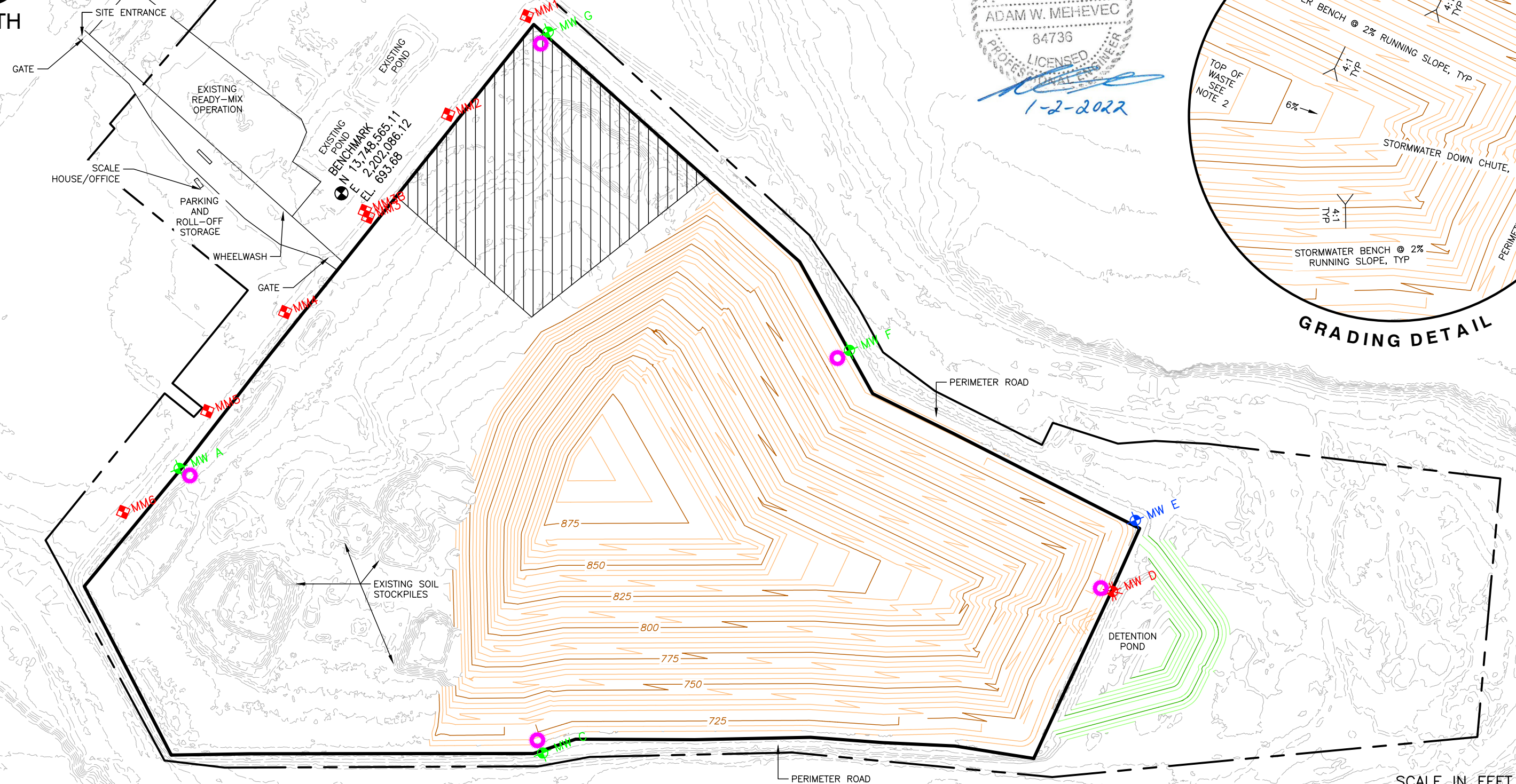
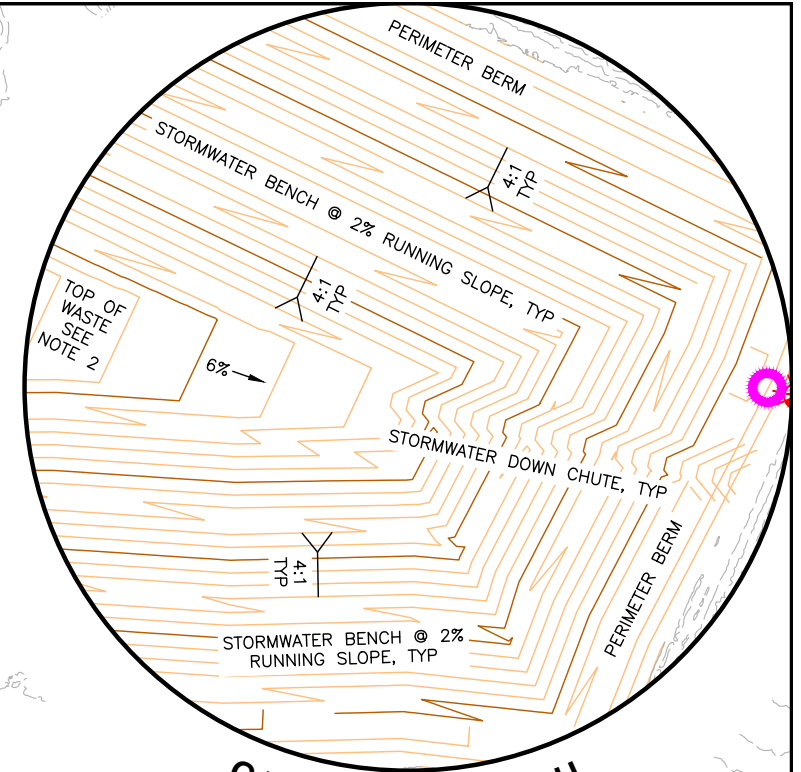
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DRAWN BY: MFV	CHECKED BY: AWM	APPROVED BY: AWM	FIGURE NO.: D1.3
DATE: 08/2022	DWG SCALE: 1" = 400'	PROJECT NO: 311-653	

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**NORTH**



**NOTES**

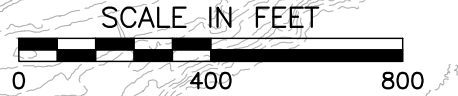
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2. CONTINUE TO FILL AREAS TO 1848A GRADES AND INSTALL INTERMEDIATE COVER.
3. INTERIM SLOPE FACE SHALL BE GRADED AT 3:1 MAXIMUM SLOPE.

**LEGEND**

- |  |                            |  |                             |
|--|----------------------------|--|-----------------------------|
|  | EXISTING MONITOR WELL      |  | LANDFILL PERMIT BOUNDARY    |
|  | EXISTING GAS PROBE         |  | LANDFILL FOOTPRINT BOUNDARY |
|  | EXISTING PIEZOMETER        |  | BRUSH/ROLL-OFF STORAGE AREA |
|  | MONITOR WELL-TO BE REMOVED |  | MAINTENANCE AREA            |
|  | PROPOSED MONITOR WELL      |  |                             |

**REFERENCE**

TOPOGRAPHIC INFORMATION FROM AERIAL SURVEY BY FIRMATEK: (SEPTEMBER 15, 2021) AUGMENTED WITH A PORTION OF THE EXISTING GROUND SURFACE PREPARED BY CEC.



REVISION RECORD	
NO	DESCRIPTION
1	TECHNICAL NOD 1

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DRAWN BY: MFV	CHECKED BY: AWM
DATE: 08/2022	DWG SCALE: 1" = 400'

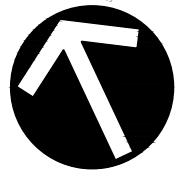
**BECK COMPANIES**

NIDO, LTD  
 BECK LANDFILL  
 BEXAR COUNTY, TEXAS

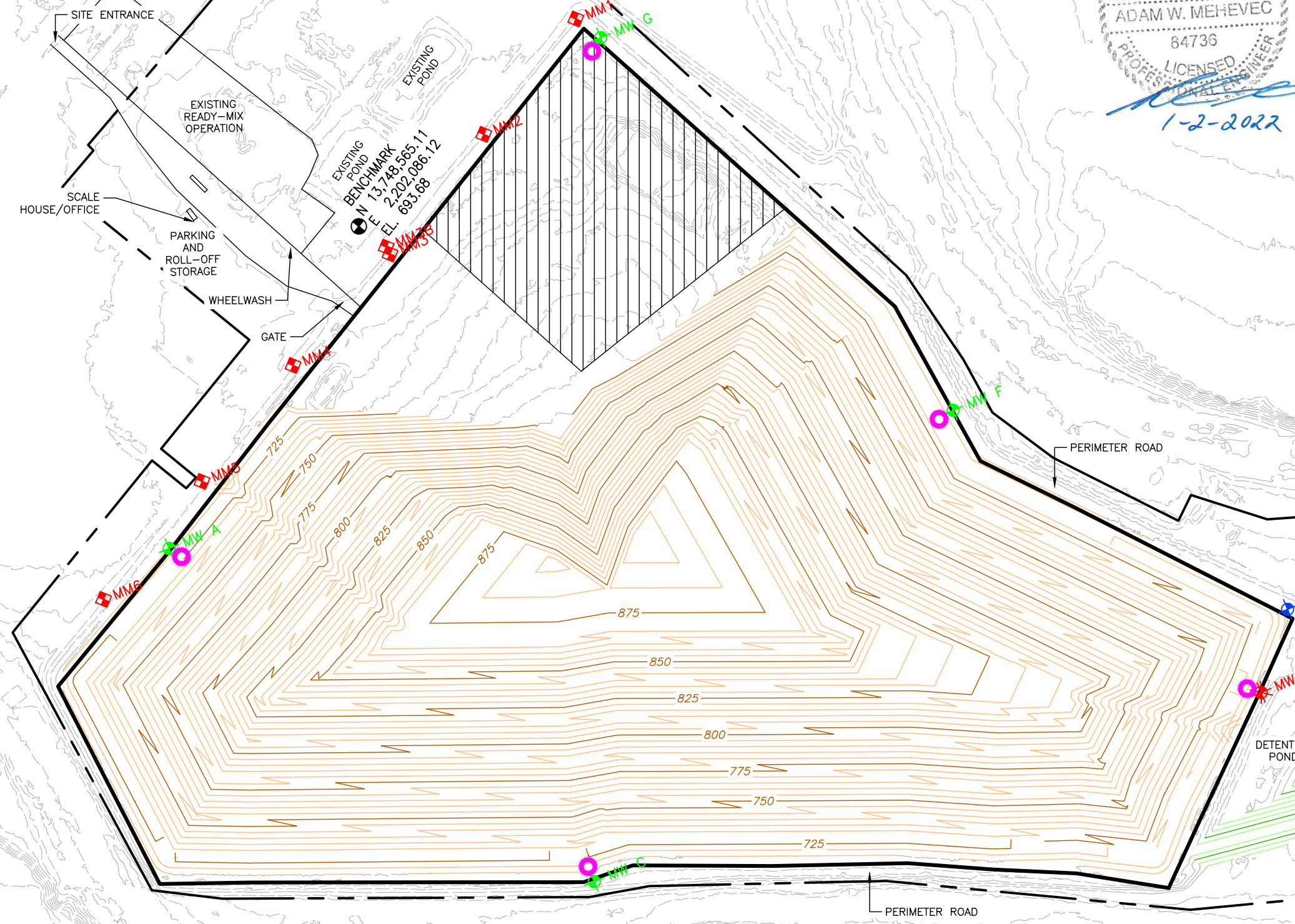
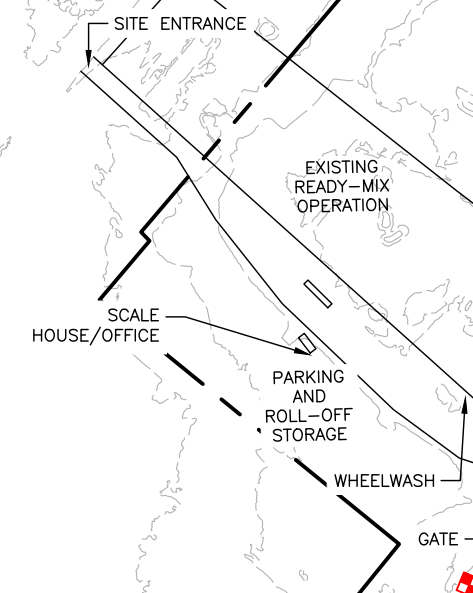
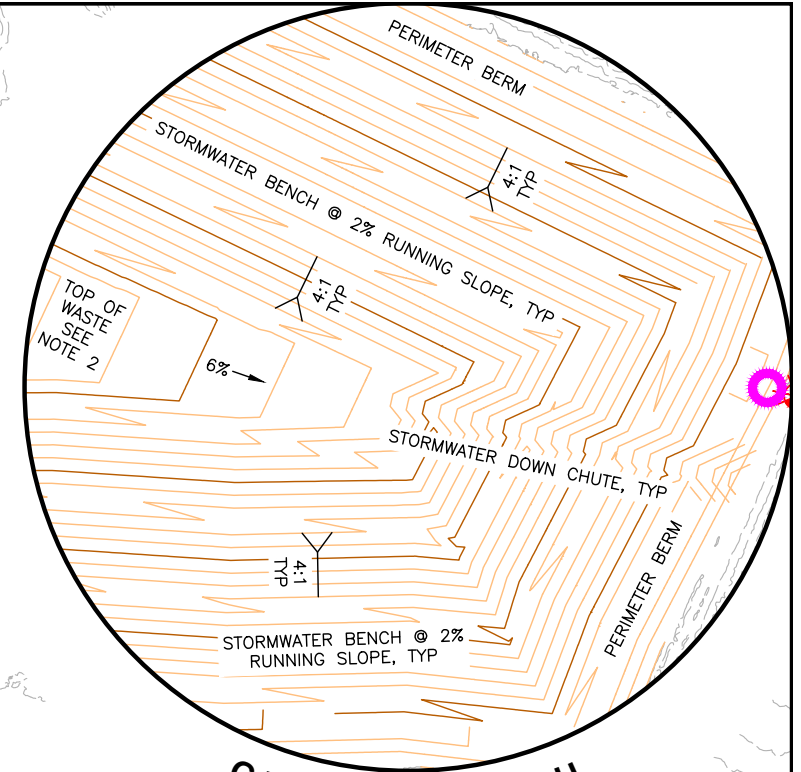
**SEQUENCE PLAN (SEQUENCE 2)**

APPROVED BY: AWM	FIGURE NO.: <b>D1.4</b>
PROJECT NO: 311-653	

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NORTH



**NOTES**

1. ALL AREAS WITHIN THE LANDFILL FOOTPRINT THAT DO NOT HAVE FINAL COVER MAY BE USED FOR SOIL STOCKPILES, BRUSH STORAGE AND GRINDING, OR VEHICLE PARKING AND MAINTENANCE.
2. CONTINUE TO FILL AREAS TO 1848A GRADES AND INSTALL INTERMEDIATE COVER.
3. INTERIM SLOPE FACE SHALL BE GRADED AT 3:1 MAXIMUM SLOPE.

**LEGEND**

- EXISTING MONITOR WELL
- EXISTING GAS PROBE
- EXISTING PIEZOMETER
- MONITOR WELL--TO BE REMOVED
- PROPOSED MONITOR WELL
- LANDFILL PERMIT BOUNDARY
- LANDFILL FOOTPRINT BOUNDARY
- BRUSH/ROLL-OFF STORAGE AREA AND MAINTENANCE AREA

**REFERENCE**

TOPOGRAPHIC INFORMATION FROM AERIAL SURVEY BY FIRMATEK: (SEPTEMBER 15, 2021) AUGMENTED WITH A PORTION OF THE EXISTING GROUND SURFACE PREPARED BY CEC.



REVISION RECORD	
NO	DESCRIPTION
1	TECHNICAL NOD 1

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DRAWN BY: MFV CHECKED BY: AWM  
DATE: 08/2022 DWG SCALE: 1" = 400'

**BECK COMPANIES**

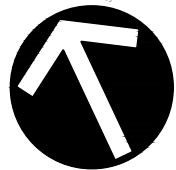
NIDO, LTD  
BECK LANDFILL  
BEXAR COUNTY, TEXAS

SEQUENCE PLAN (SEQUENCE 3)

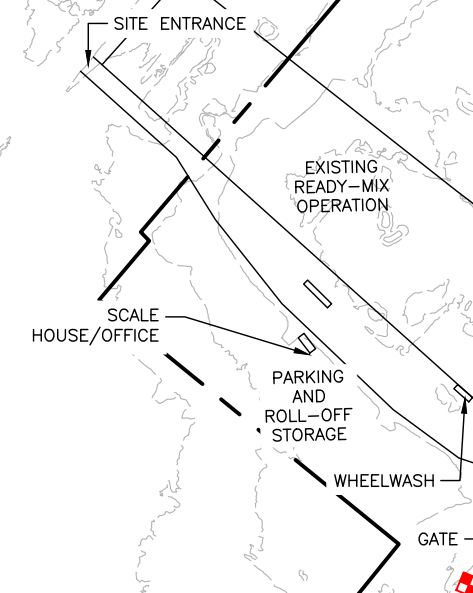
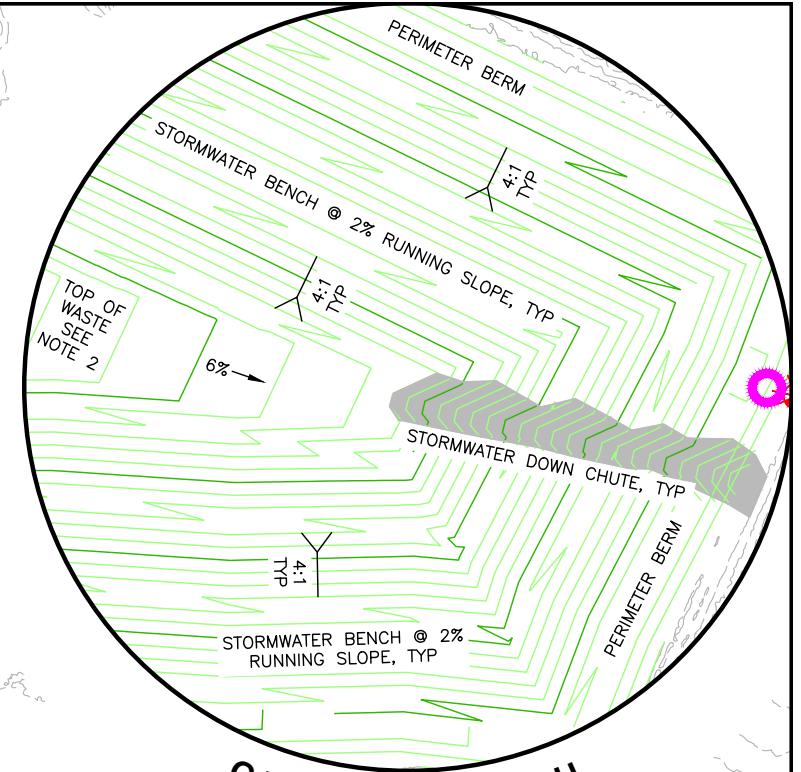
APPROVED BY: AWM  
PROJECT NO: 311-653

FIGURE NO.: **D1.5**

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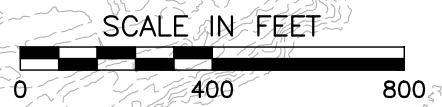
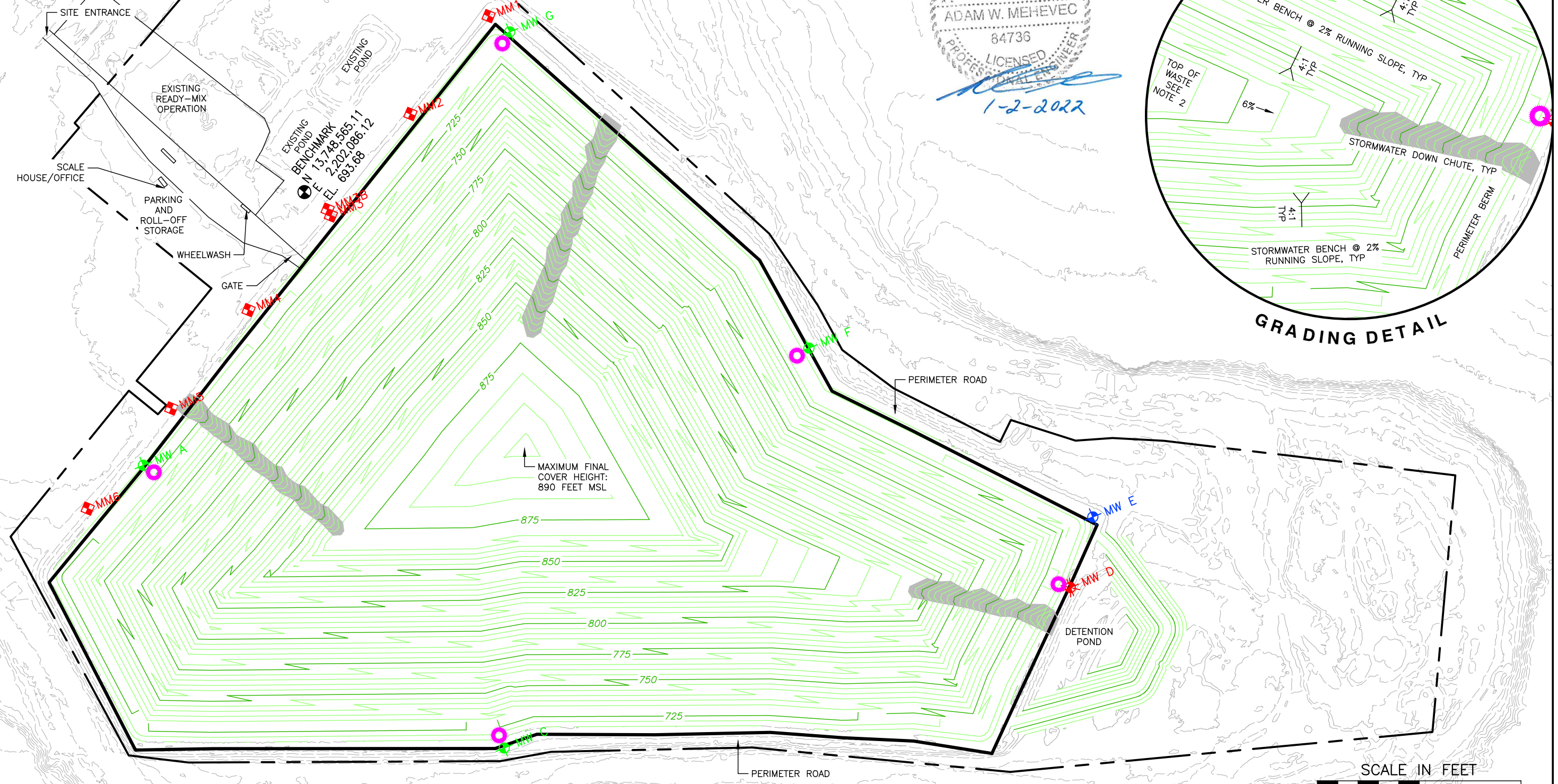


NORTH



EXISTING POND  
BENCHMARK  
N 13.748.565.11  
E 2.202.086.12  
EL. 693.68

MAXIMUM FINAL COVER HEIGHT: 890 FEET MSL



**NOTES**

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2. CONTINUE TO FILL AREAS TO 1848 A GRADES AND INSTALL INTERMEDIATE COVER.
3. INTERIM SLOPE FACE SHALL BE GRADED AT 3:1 MAXIMUM SLOPE.

**LEGEND**

- EXISTING MONITOR WELL
- EXISTING GAS PROBE
- EXISTING PIEZOMETER
- MONITOR WELL-TO BE REMOVED
- PROPOSED MONITOR WELL
- LANDFILL PERMIT BOUNDARY
- LANDFILL FOOTPRINT BOUNDARY
- CONSTRUCT FINAL LAND FILL COVER: ±155 ACRES

**REFERENCE**

TOPOGRAPHIC INFORMATION FROM AERIAL SURVEY BY FIRMATEK: (SEPTEMBER 15, 2021) AUGMENTED WITH A PORTION OF THE EXISTING GROUND SURFACE PREPARED BY CEC.

**REVISION RECORD**

NO	DATE	DESCRIPTION
1	1/2/23	TECHNICAL NOD 1

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DRAWN BY: MFV CHECKED BY: AWM  
DATE: 08/2022 DWG SCALE: 1" = 400'

**BECK COMPANIES**

NIDO, LTD  
BECK LANDFILL  
BEXAR COUNTY, TEXAS

SEQUENCE PLAN (SEQUENCE 4)

APPROVED BY: AWM  
PROJECT NO: 311-653

FIGURE NO.: **D1.6**