

Bridgeton Landfill LLC

August 28, 2017

Mr. Chris Nagel
Director
Solid Waste Management Program
Missouri Department of Natural Resources
PO Box 176
Jefferson City, MO 65102

Mr. Mark Milward, RG
St. Louis County Department of Public Health
Waste Management Program
4562 Lemay Ferry Road
St. Louis, MO 63129

Re: Bridgeton Landfill – 2017 East Fill Project Notification

Dear Mr. Nagel and Mr. Milward:

Bridgeton Landfill, LLC will be starting an earthen fill project on the eastern side of the South Quarry of the Bridgeton Landfill (referred to as the “East Fill”). The site has performed limited maintenance on the east side recently to allow for proper sloping of key infrastructure in order to prevent the potential for odors. The 2017 East Fill Project itself will begin the week of September 11, 2017, and will involve soil hauling (either from off-site sources or the on-site borrow area), filling, and grading of low areas which have experienced settlement. The goal of the project is to have a seeded earthen slope of approximately 5%. This will enhance surface water conveyance and provide acceptable slopes for the gas system piping.

The 2017 East Fill Project will require approximately 82,000 in-place cubic yards of earthen material to be delivered and graded to achieve the grades depicted in the attached drawings. The existing Ethyl Vinyl Alcohol (EVOH) liner will be cut along the perimeter of the fill project and buried with soil to serve as an additional odor control measure during the project. The lower edge of the grading will require an expansion joint to be installed to allow the EVOH liner to flex to prevent the potential for odors and prevent the potential for oxygen intrusion. All of the vertical infrastructure (e.g. leachate sumps and gas wells) will be extended to project through the fill. The horizontal piping will be relocated vertically above the finished grades. A portion of the 18” gas header will be relocated onto a rock graded path as shown on Drawing 004 in the attached drawings. During construction, stormwater best management practices and odor management will be conducted.

Included with this notification is a set of drawings developed by Feezor Engineering, Inc. and Civil and Environmental Consultants, Inc. depicting the locations of the East Fill and borrow areas. If you have any questions please call me at (209) 227-9531.

Sincerely,



Erin Fanning
Division Manager

Attachments: East Fill Drawings

BID DRAWINGS FOR THE

EAST FILL

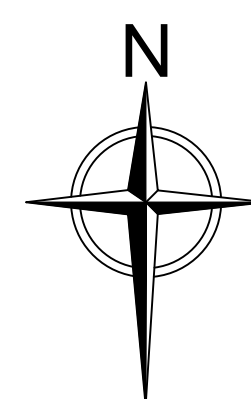
AUGUST 2017
PREPARED FOR:

BRIDGETON LANDFILL, LLC

13570 ST. CHARLES ROCK ROAD
BRIDGETON, MISSOURI 63044



LOCATION MAP



406 EAST WALNUT STREET
CHATHAM, IL 62629
TEL. (217) 483-3118
FAX. (217) 483-2356

INDEX OF DRAWINGS

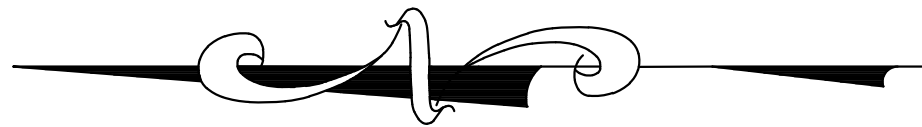
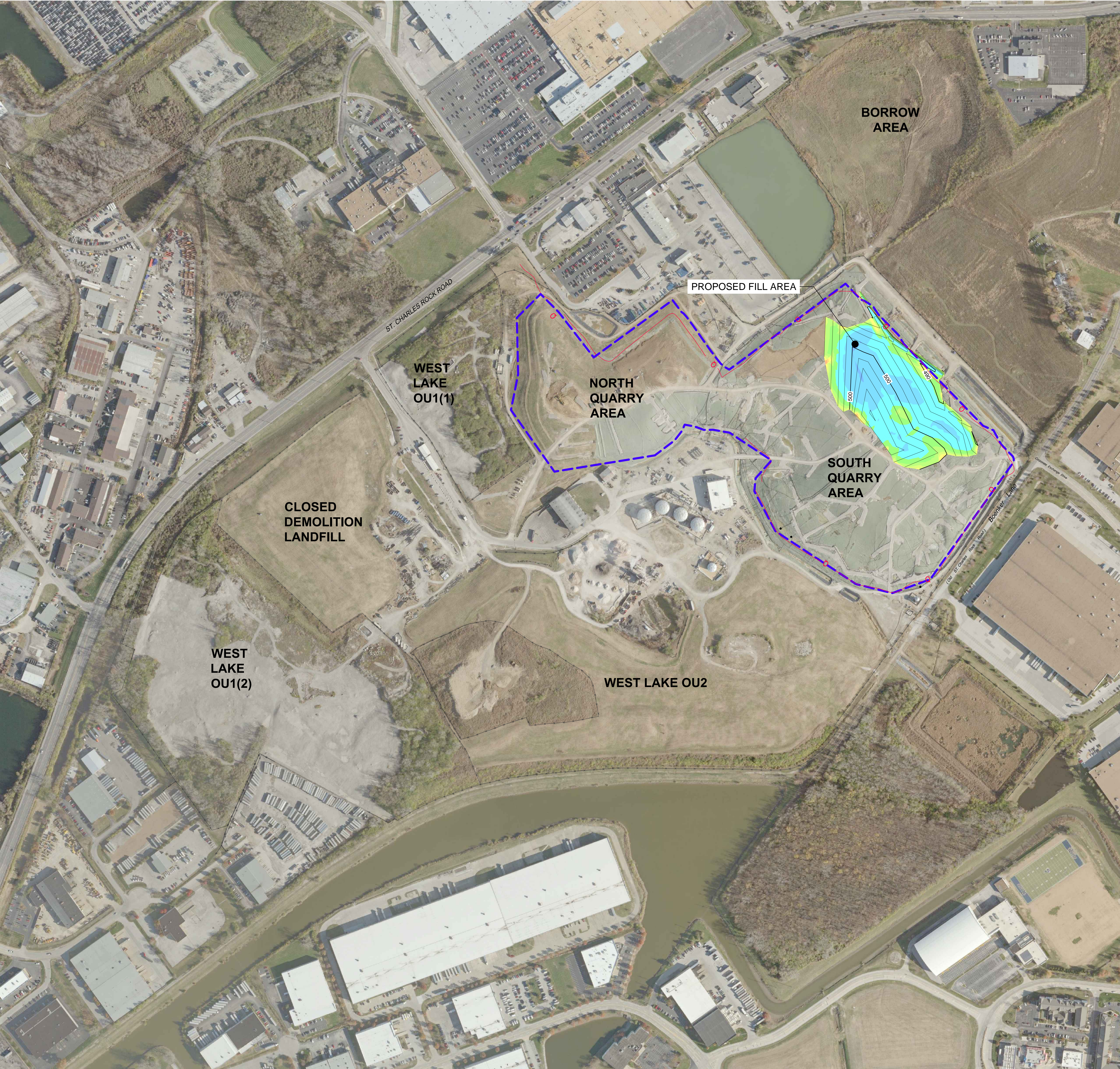
001	TITLE PAGE
002	SUMMARY OF SITE WORKS
003	FILL GRADING PLAN WITH SITE INFRASTRUCTURE
004	DETAILS
005	CEC DRAWING SP-01 - BORROW AREA

Daniel R. Feezor, P.E.

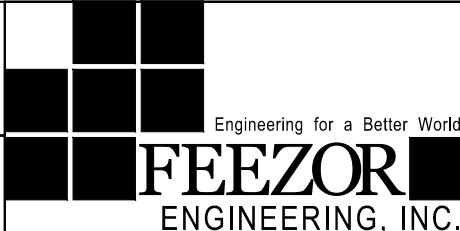
CHANGES TO THIS PLAN/DRAWING SET REQUIRE WRITTEN APPROVAL BY FEI.

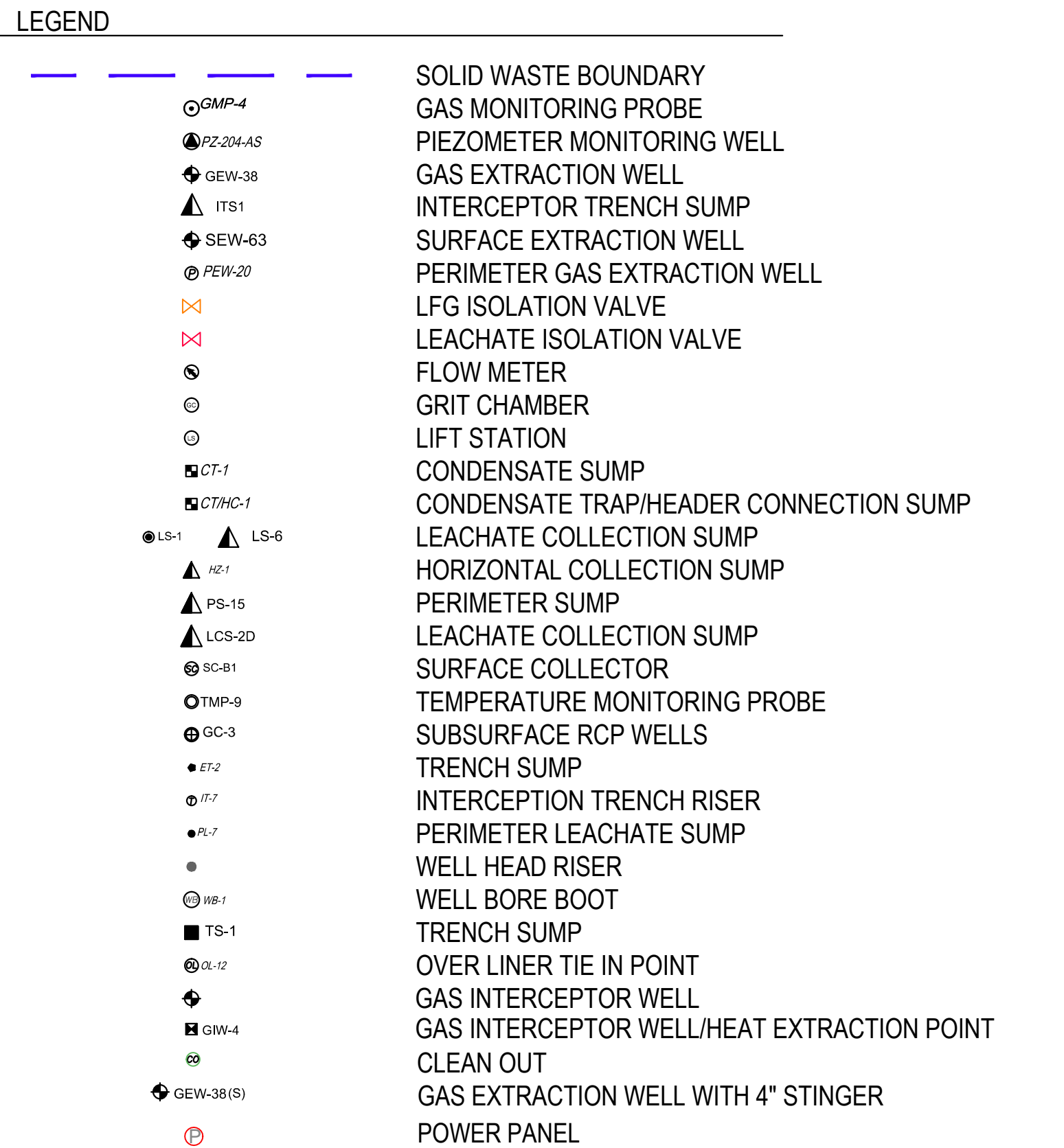
IL P.E. No: 062-048889

Date

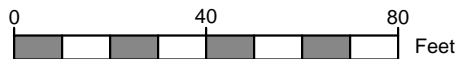
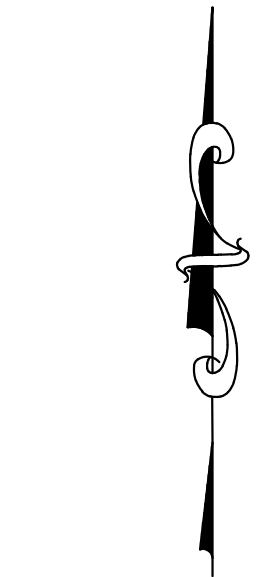


- SOLID WASTE BOUNDARY
- Q --- QUARRY WALL
- X --- FENCE

NOTES: AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS CO. AND IS DATED DECEMBER 2, 2016					DRAWING NO.:	
BRIDGETON LANDFILL, LLC 13570 ST. CHARLES ROCK ROAD BRIDGETON, MISSOURI 63044	BRIDGETON LANDFILL EAST FILL		AUGUST 2017	002		
			DESIGNED BY: PML			
			APPROVED BY: DRF			
SUMMARY OF SITE WORKS						
PROJECT NO: BT-129 FILE PATH: C:\Dropbox\Feezor Engineering\Bridgeton\BT-129\Bridgeton.dwg 1/20/17 P. E. Eds			REVISION	DATE		



VOLUME
-FILL: 82,154 CY
-CUT: 165 CY





NOTES:

1. GAS AND LIQUID EXTRACTION POINTS THAT HAVE BEEN TEMPORARILY DECOMMISSIONED (PHYSICALLY DISCONNECTED FROM THE COLLECTION AND CONTROL SYSTEM DUE TO DECLINING GAS FLOWS), AND/OR ABANDONED, (PERMANENTLY AND PHYSICALLY REMOVED FROM THE COLLECTION AND CONTROL SYSTEM DUE TO THE INABILITY TO COLLECT GAS) HAVE BEEN REMOVED FROM THE SITE INFRASTRUCTURE UPDATE.
2. SIGNIFICANT CONSTRUCTION IS CURRENTLY OCCURRING IN THE NORTH QUARRY AREA-AS BUILTS TO BE SUBMITTED AND INCORPORATED INTO THE QUARTERLY UPDATES UPON COMPLETION AND CERTIFICATION.

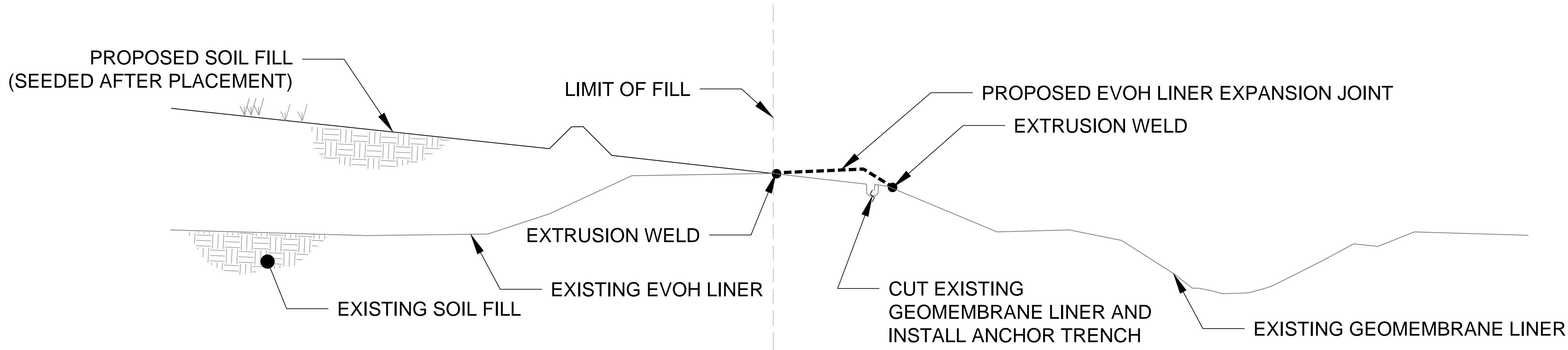
NOTES:

- AERIAL TOPOGRAPHY PROVIDED BY COOPER AERIAL SURVEYS CO. AND IS DATED DECEMBER 2, 2016

BRIDGETON LANDFILL, LLC 13570 ST. CHARLES ROCK ROAD BRIDGETON, MISSOURI 63044	BRIDGETON LANDFILL EAST FILL	 Engineering for a Better World FEEZOR ENGINEERING, INC.	C AP
<h2 style="text-align: center;">FILL GRADING PLAN</h2> <h3 style="text-align: center;">WITH SITE INFRASTRUCTURE</h3>		 FEEZOR ENGINEERING, INC.	
PROJECT NO: BT-129	FILE PATH: C:\Clients\Feezor Engineering\Bridgeton\129 BT Grading\Grading-1-2017 PLD.dwg		RE

DRAWING NO.:

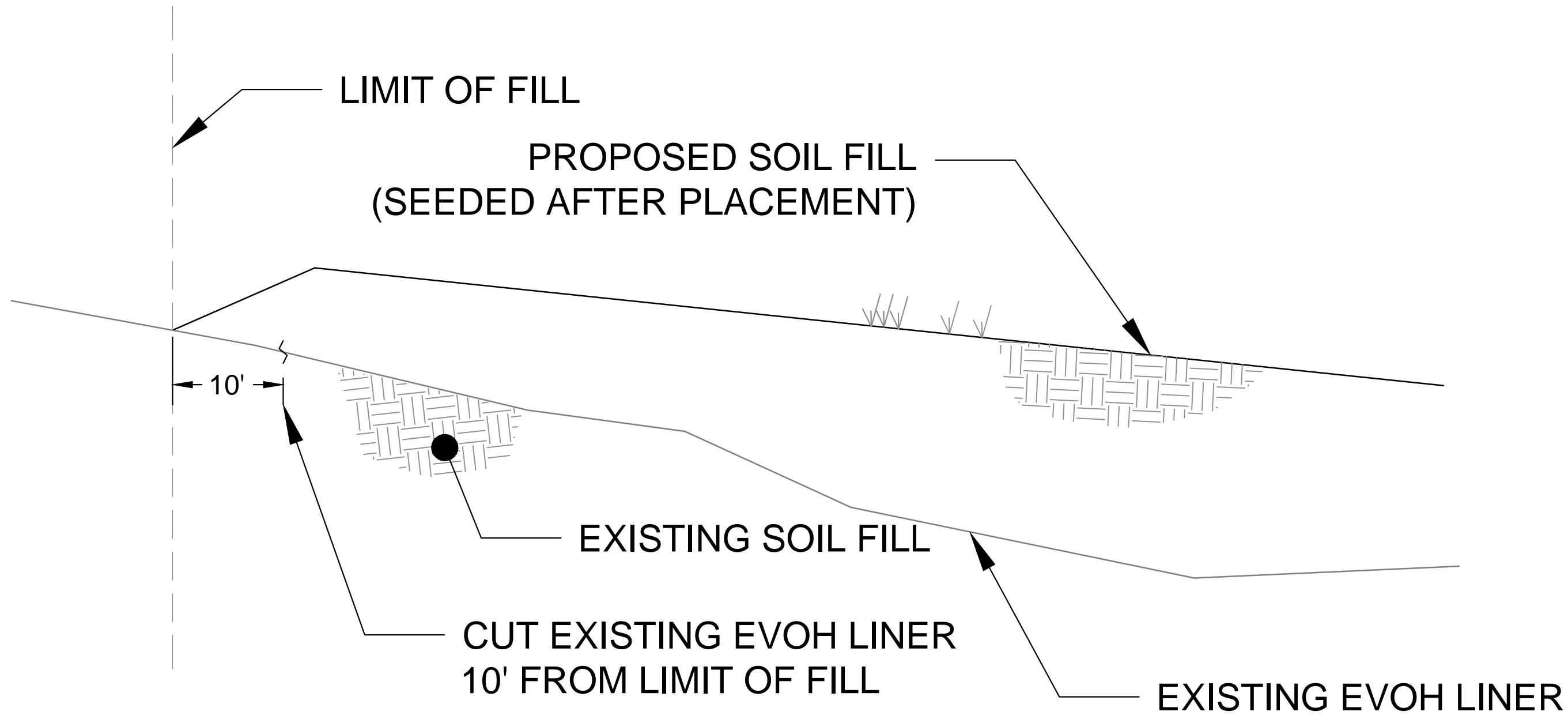
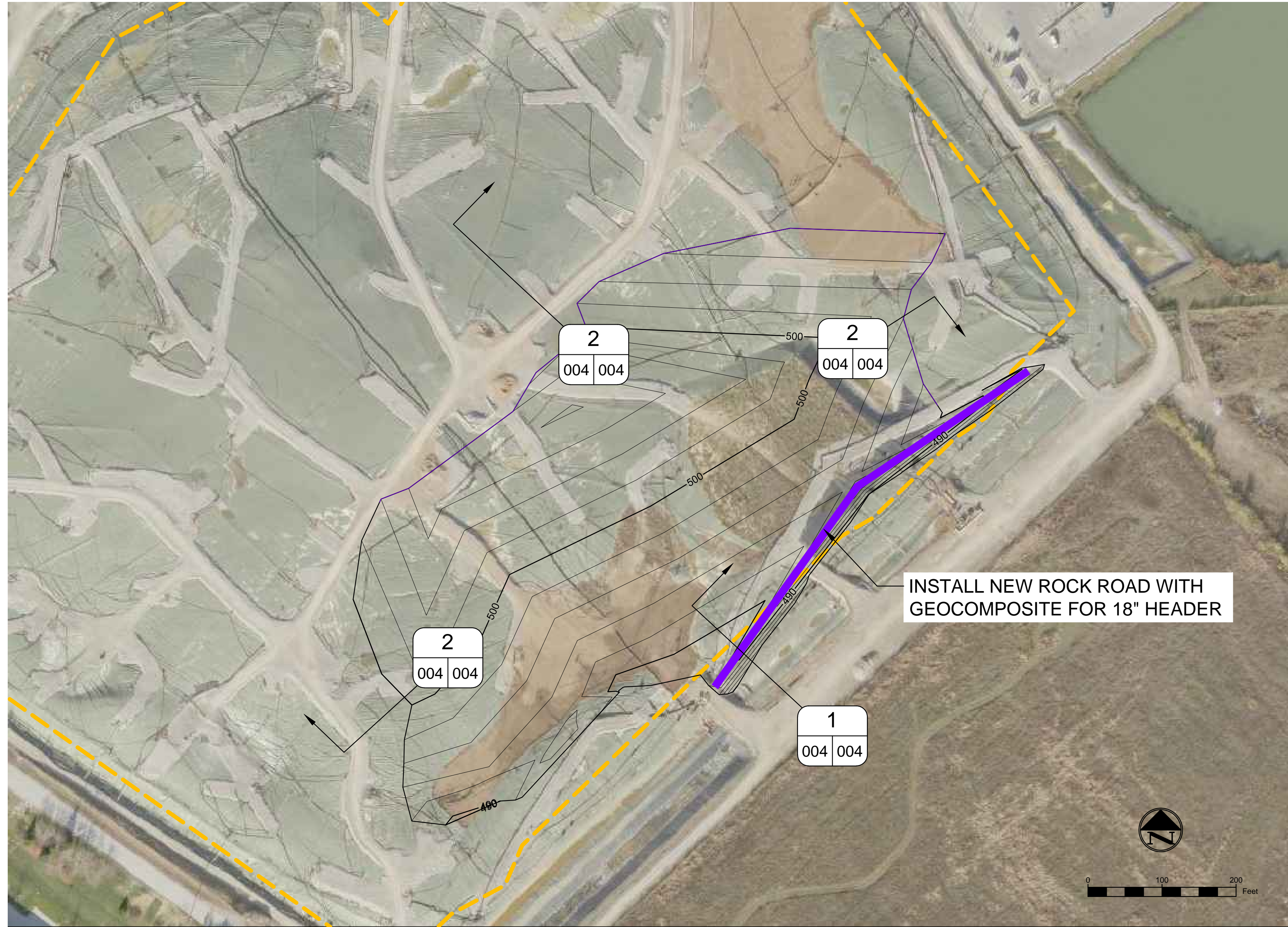
003



1
004 | 004

EAST LINER TIE-IN/EXPANSION

NOT TO SCALE



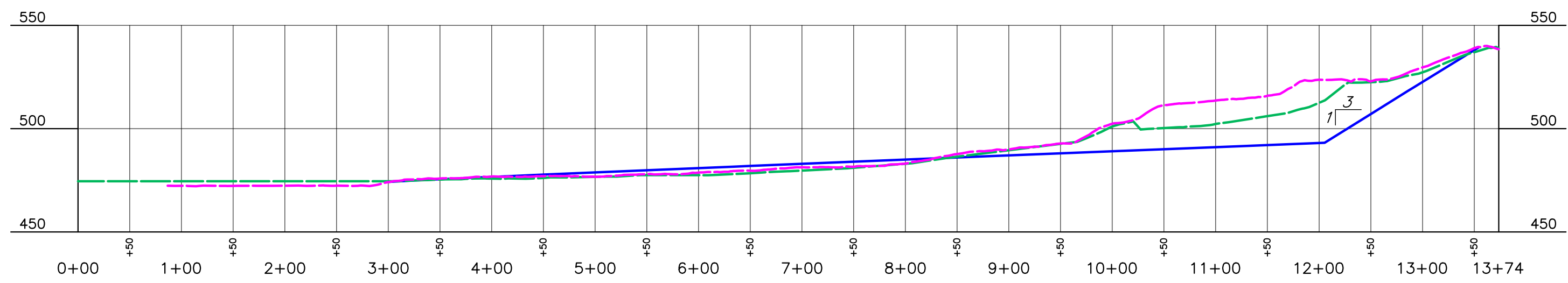
2
004 | 004

ANCHOR TRENCH

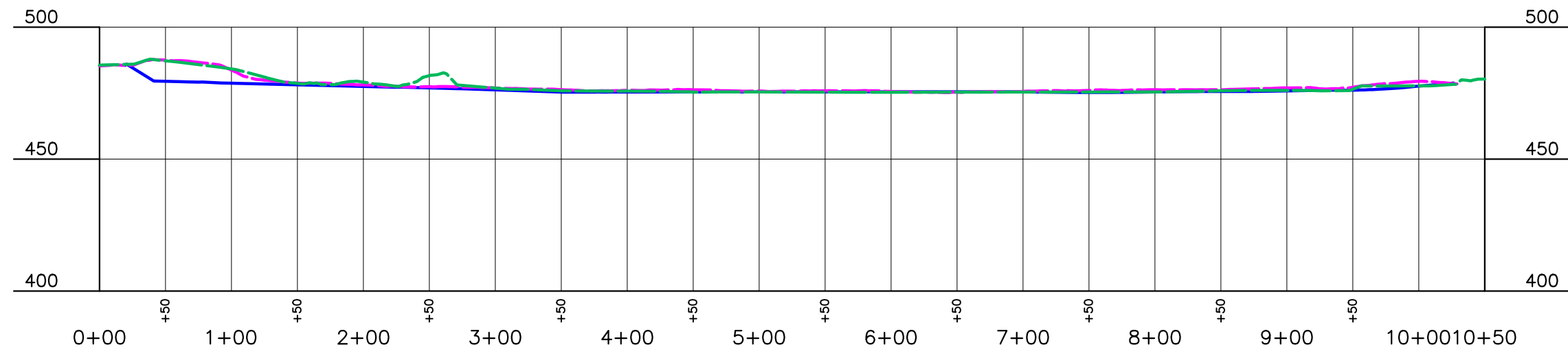
NOT TO SCALE

LEGEND

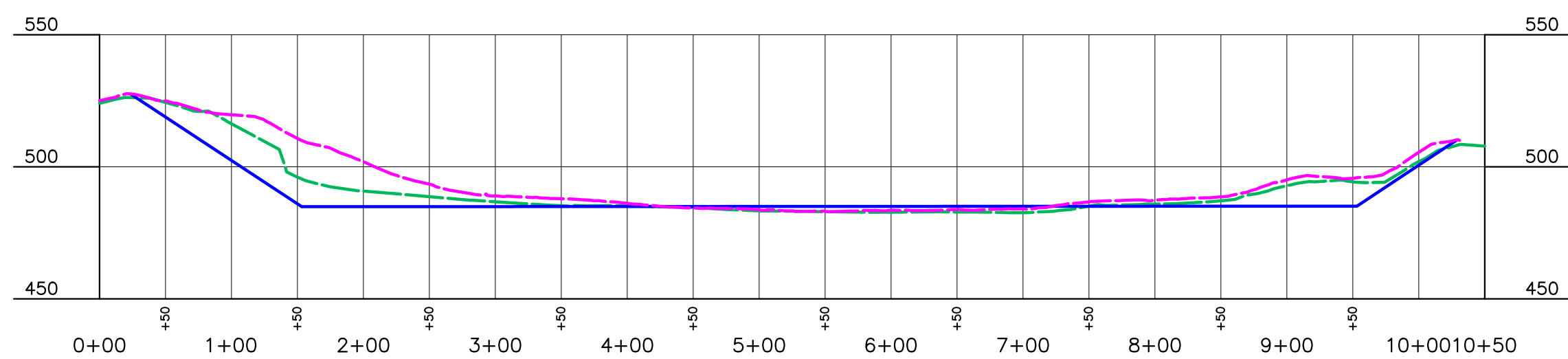
- PROPOSED FILL GRADING (2' CONTOUR)
- 500 PROPOSED FILL GRADING (10' CONTOUR)
- PERMITTED WASTE BOUNDARY



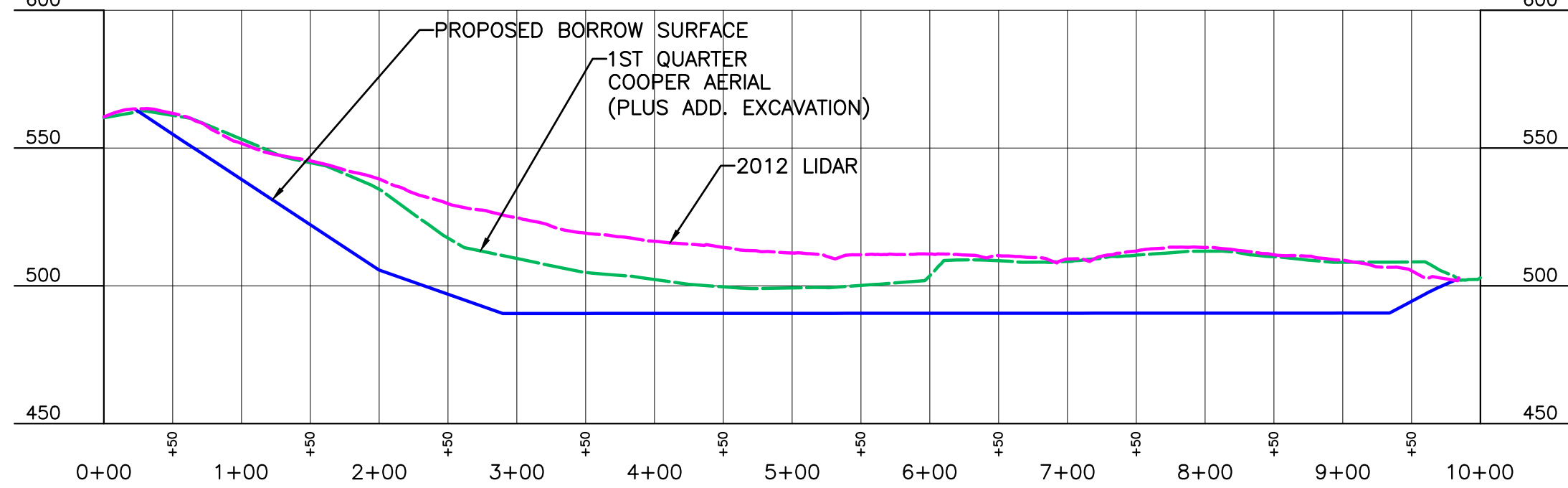
A PROFILE
SCALE H:1"=20'; V:1"=10'



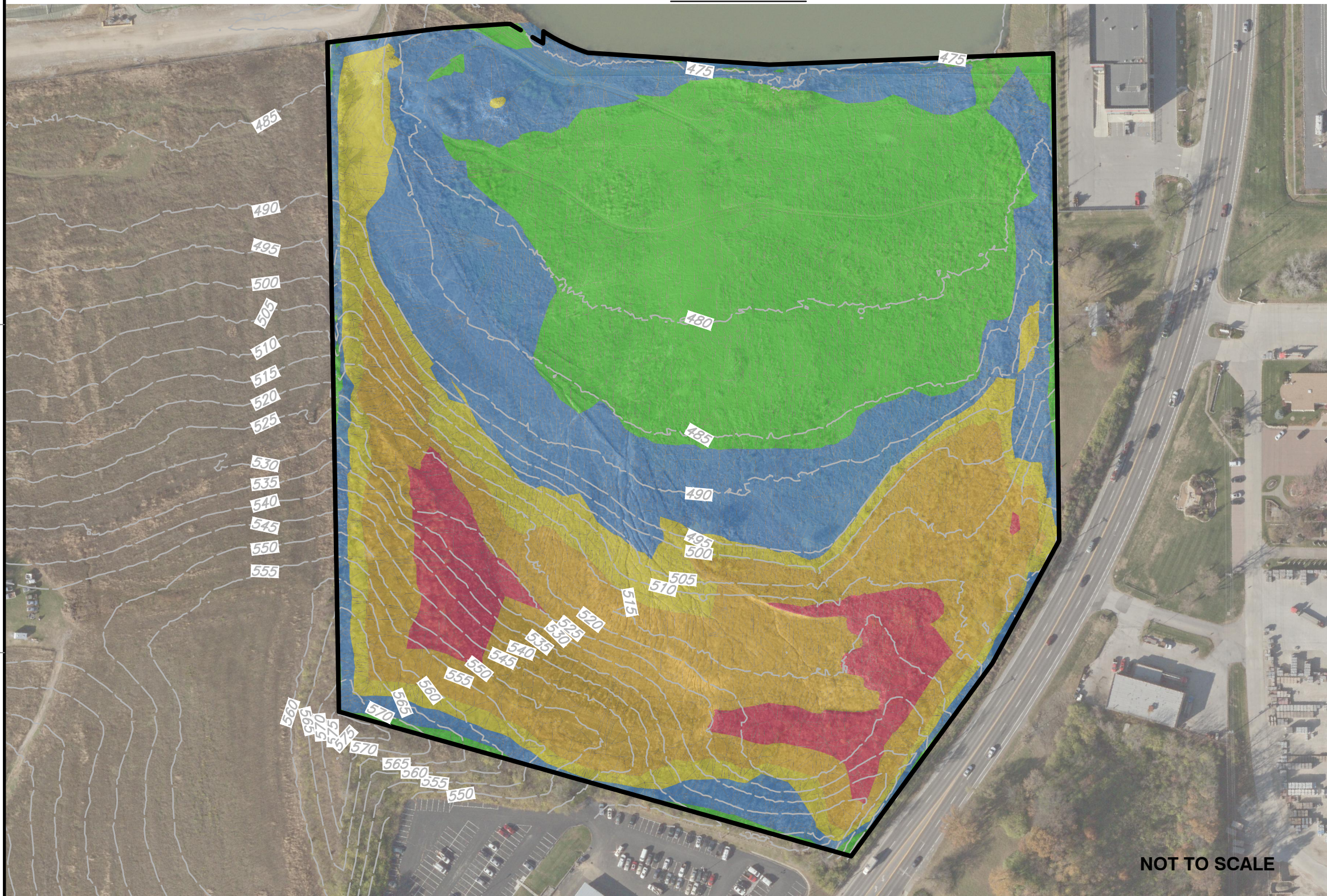
B PROFILE
SCALE H:1"=20'; V:1"=10'



C PROFILE
SCALE H:1"=20'; V:1"=10'



D PROFILE



ADJACENT WESTLAKE PARCEL VOLUME REPORT YEAR TO DATE

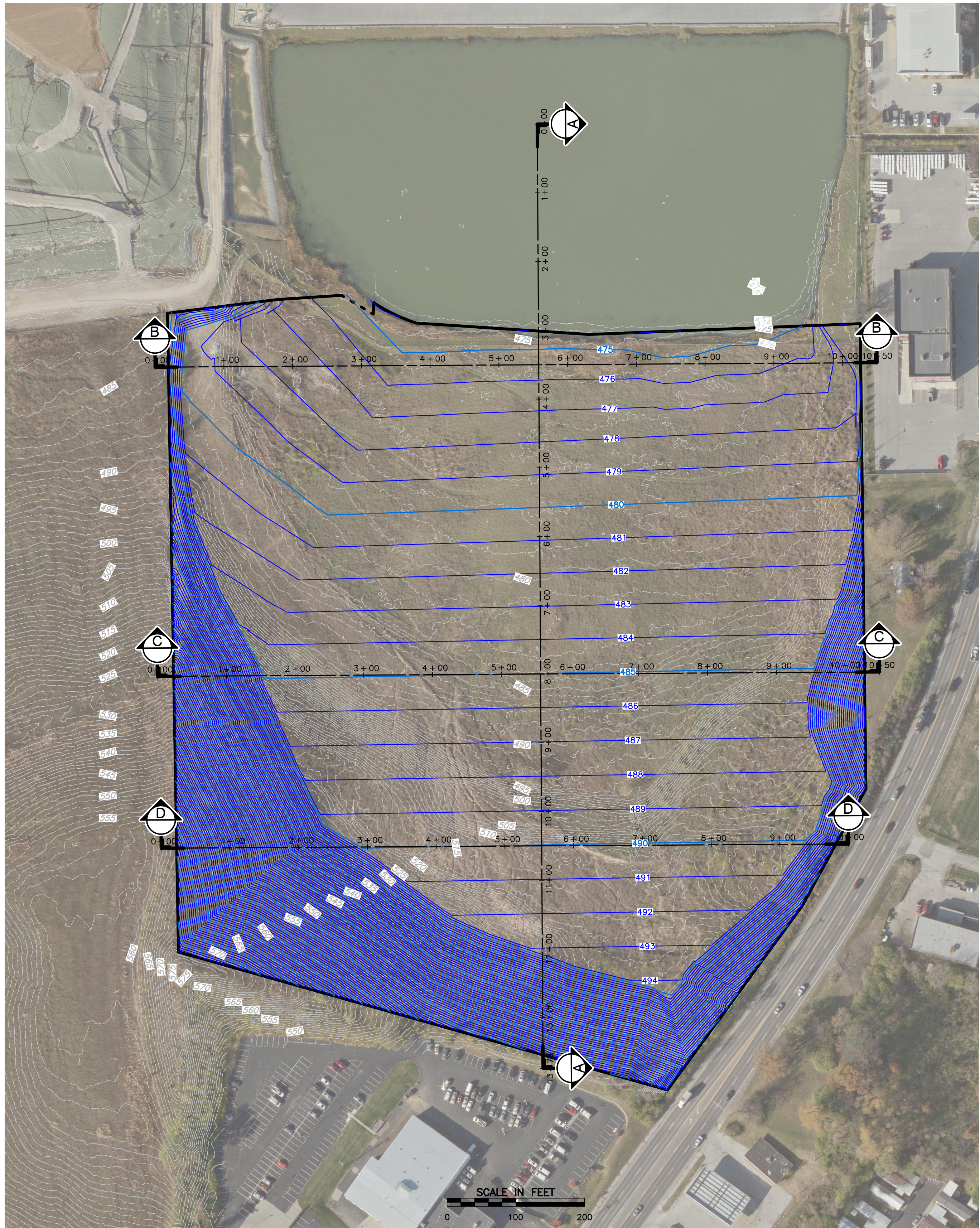
Base Surface 163723-X-DTM Borrow
Comparison Surface 163723-P-AdjacentBorrow_MO83-EF
Cut Factor 1.0000
Fill Factor 1.0800
Cut volume (adjusted) 230985 Cu. Yd.
Fill volume (adjusted) 22158 Cu. Yd.
Net volume (adjusted) 208826 Cu. Yd. <Cut>
Cut volume (unadjusted) 230985 Cu. Yd.
Fill volume (unadjusted) 20517 Cu. Yd.
Net volume (unadjusted) 210468 Cu. Yd. <Cut>

NOTE: ERROR FACTOR OF 0.8% OR +/- 1,800 CU. YDS.

Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Color	PLAN AREA
1	-32	-20	Red	64,627
2	-20	-10	Yellow	229,581
3	-10	-5	Green	105,396
4	-5	0	Blue	274,054
5	0	4	Green	320,420

REFERENCE

1. BASE SURFACE DERIVED FROM COOPER AERIAL SURVEY RECEIVED DEC. 2016 AND SUPPLEMENTED BY FEZZOR ENGINEERING FOR ADDITIONAL BORROW AREA ON JUNE, 19, 2017.
2. LIDAR SURFACE PROVIDED EAST-WEST GATEWAY DATED 2012 SHOWN FOR COMPARISON OF EXCAVATED AREAS.



Civil & Environmental Consultants, Inc.

4848 Park 370 Blvd., Suite F - Hazelwood, MO 63042
Ph: 314.656.4566 - 866.250.3679 - Fax: 314.656.4595
www.cecinc.com

BRIDGETON LANDFILL, LLC
13570 ST. CHARLES ROCK ROAD
BRIDGETON, MO 63044

DRAWN BY: CAC CHECKED BY: DRK APPROVED BY: DRK
DATE: JUNE 2017 DWG SCALE: 1" = 100' PROJECT NO: 163-723

BORROW AREA
12830 ST. CHARLES ROCK ROAD
BRIDGETON, MO 63044
LAND DISTURBANCE

DRAWING NO.:
SP-01
SHEET 1 OF 1