



Department of Energy
Portsmouth/Paducah Project Office
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513
(859) 219-4000

RECEIVED
By Terri.Drake at 3:57 pm, Jun 13, 2022

June 13, 2022

Ms. Jamie Nielsen, Supervisor
Permit Administration Section
Division of Waste Management, Solid Waste Branch
Kentucky Department for Environmental Protection
300 Sower Boulevard, 2nd Floor
Frankfort, Kentucky 40601

PPPO-02-10021300-22B

Dear Ms. Nielsen:

**2022 ANNUAL SURVEY FOR THE PADUCAH GASEOUS DIFFUSION PLANT
C-746-U CONTAINED LANDFILL, PERMIT NUMBER 073-00045, AGENCY
INTEREST NO. 3059**

Enclosed is the certified 2022 Solid Waste Landfill Annual Survey Form, DEP 8059 (6/10), and the associated cross-section drawings for Kentucky Division of Waste Management (KDWM) information, as required by 401 *KAR* 47:190 § 8(2) (Enclosures 1 and 2). The 2022 annual survey is being submitted electronically to the Kentucky Energy and Environmental Cabinet via the Kentucky Online Gateway website using Solid Waste Branch Submittal eForm #203.

Four Rivers Nuclear Partnership, LLC (FRNP) completed aerial activities to support the annual survey on April 19, 2022, using a small Unmanned Aircraft System.

In the 2019, 2020, and 2021 annual survey submittals, FRNP reported that temporary, long-term cover material had either encroached or had exceeded the vertical landfill limit. In comparing the results from this year's survey to the previous three submittals, the volume of this excess cover material to be removed prior to final cap construction (13,600 yd³) has not changed (see Enclosure 3). Also, as requested by KDWM during a conference call dated May 11, 2020, clarification is provided for line item #35 of KDWM Form DEP 8059 (6/10). The rate of compaction was calculated by dividing the quantity of waste received since the last survey (3,527.48 tons) by the difference between the filled airspace from the 2021 landfill survey (144,835 yd³) and the 2022 landfill survey (150,054 yd³), rounded to the nearest whole number in cubic yards. The reported rate of compaction, rounded to the nearest whole number, is 1,352 lbs per yd³.

To assist in the 2022 annual survey review, the previously submitted figures of C-746-U Landfill Phases, Revision 4; engineering drawing C7DC7460UA001, Rev. 9; and engineering drawing C5E-59701-K10, Rev. B are enclosed (Enclosures 4, 5, and 6). A certification page also is enclosed (Enclosure 1).

If you have any questions or require additional information, please contact David Dollins at (270) 441-6819.

Sincerely,

April Ladd

Digitally signed by
April Ladd
Date: 2022.06.09
15:55:24 -05'00'

April Ladd
Acting Paducah Site Lead
Portsmouth/Paducah Project Office

Enclosures:

1. Certification Page
2. 2022 Annual Survey Form DEP 8059 (6/10)
3. C-746-U Landfill 2022 Annual Landfill Survey Drawings
4. Volume of Soil to be Removed Prior to Final Cap Table
5. C-746-U Landfill Phases, Revision 4
6. Engineering Drawing C7DC7460UA001, Rev. 9
7. Engineering Drawing C5E-59701-K10, Rev. B

cc w/enclosures:

abigail.parish@pppo.gov, PPPO
april.ladd@pppo.gov, PPPO
april.webb@ky.gov, KDEP
bart.schaffer@ky.gov, KDEP
brian.begley@ky.gov, KDEP
bruce.ford@pad.pppo.gov, FRNP
christopher.travis@ky.gov, KDEP
dave.dollins@pppo.gov, PPPO
dennis.greene@pad.pppo.gov, FRNP
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lisa.crabtree@pad.pppo.gov, FRNP
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pad.rmc@pad.pppo.gov
tammy.smith@pad.pppo.gov, FRNP
tracey.duncan@pppo.gov, PPPO

cc via KY eForms portal:

jamie.nielsen@ky.gov, KDEP

CERTIFICATION

Document Identification: *2022 Annual Survey for the Paducah Gaseous Diffusion Plant C-746-U Contained Landfill, Permit Number 073-00045, Agency Interest No. 3059*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for such violations.

Four Rivers Nuclear Partnership, LLC
Permittee (Operator)



Myrna E. Redfield, Program Manager
Four Rivers Nuclear Partnership, LLC



Date Signed

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for such violations.

U.S. Department of Energy



April Ladd, Acting Paducah Site Lead
Portsmouth/Paducah Project Office
U.S. Department of Energy



Date Signed



ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
200 FAIR OAKS LANE, SECOND FLOOR
FRANKFORT, KY 40601
TELEPHONE NUMBER (502) 564-6716

**Solid Waste Landfill
Annual Survey
Form DEP 8059 (6/10)**

(To be submitted in conjunction with the annual survey report required by 401 KAR 47:190, Section 8)

Statutes and regulations may be viewed online at the following website address:
<http://www.lrc.ky.gov/search.htm>

Solid waste application forms are available at the following website address:
<http://www.waste.ky.gov>

DWM OFFICAL USE ONLY

AI#: _____ Application #: _____

GENERAL INSTRUCTIONS

1. **APPLICABILITY** - The owner or operator of a contained, construction and demolition or residual landfill shall complete, and submit the following reporting forms as listed in 401 KAR 47:190, Section 8(4).
2. **ASSISTANCE** – Questions regarding this form may be directed in writing to the Division of Waste Management (DWM), Solid Waste Branch at the address listed above, or by calling (502) 564-6716.
3. **SUBMISSION** – Please type or print legibly in permanent ink. Submit the original and one copy of the completed form to the DWM at the address listed above. If an item is not applicable to your facility write “N/A” in the space provided.
4. **LAWS AND REGULATIONS** – Applicants are expected to understand and comply with all laws and regulations applicable to the facility.

To assist you in the submittal of a complete and accurate report, the DWM has identified the most common errors found during the review process. These errors are listed below for your convenience.

1. **Failure to complete the report.** Required maps, attachments, and supplemental data must be submitted with this report.
2. **Failure to properly sign the report and drawings.** An individual with signature authority for the applicant as defined by KRS 224.01-010(44) and 401 KAR 47:160 must sign the appropriate signature section of the form. Maps and drawings must be signed, dated and sealed by a professional engineer or professional land surveyor.
3. **Failure to provide appropriate attachments, maps, drawings and narratives of sufficient detail.**

NOTE: Solid Waste Regulations require the landfill owner or operator to notify the cabinet no less than fifteen (15) calendar days prior to the date the survey is to be conducted. Additionally, the annual survey is required to be made between January 1 and May 1 each year. The results of the survey must be submitted to the cabinet within sixty (60) days of the date of the survey unless aerial photography is used. If aerial photography is used, the results must be submitted within ninety (90) days of the aerial photography. Refer to 401 KAR 47:190, Section 8(2) for additional requirements for annual surveys.

Warning! Due to the potential for identity theft, do not provide social security numbers to the DWM as part of this application. If this information is required during the normal course of review of the application, a cabinet representative will contact the appropriate individual to acquire this information in a secure format.



Permittee Information

- 1. Agency Interest #: 3059
- 2. Permit #: 073 - 00045
- 3. Permittee Name: Owner: U.S. Department of Energy
(This refers to the corporation, LLC, business, person, government agency, etc., that owns or operates the facility.)
- 4. Permittee Mailing Address: Four Rivers Nuclear Partnership, LLC; 5511 Hobbs Road
- 5. City: Kevil
- 6. State: KY
- 7. Zip Code: 42053
- 8. Contact Person: Gary Hines
- 9. Title: Landfill Manager
- 10. E-mail Address: gary.hines@pad.pppo.gov
- 11. Phone #: 270 - 441 - 6211 ext. N/A
- 12. Cell #: 270 - 816 - 4164
- 13. Fax #: 270 - 441 - 6303

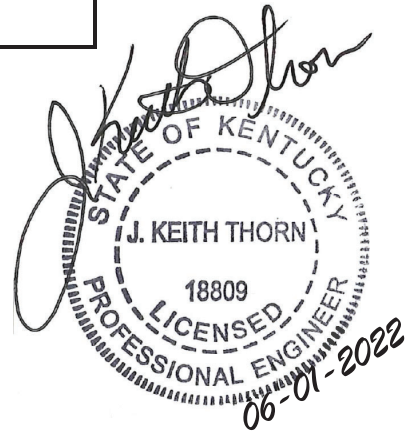
Preparer Information

- 14. Firm Name: Soldier Creek Engineering and Technical Services, LLC
- 15. Mailing Address: 459 Soldier Creek Road
- 16. City: Kirksey
- 17. State: KY
- 18. Zip Code: 42054
- 19. Individual Name: Keith Thorn
- 20. E-mail Address: keith.thorn@soldiercreekengineering.com
- 21. Phone #: 270 - 462 - 4600 ext. N/A
- 22. Cell #: 270 - 556 - 5501
- 23. Fax #: N/A - -
- 24. Name of licensed person performing survey: Keith Palmer, P.L.S. Number 3378
 - a. Firm - KY P. E. License No.: N/A Expires: - -
 - b. Individual - KY P. E. License No.: N/A Expires: - -
 - c. Firm - KY L. S. License No.: 567 Expires: 12 - 31 - 2022
 - d. Individual - KY L. S. License No.: 3378 Expires: 6 - 30 - 2022



Facility Information

- 25. Date of current over-flight / survey: 4 - 19 - 2022
- 26. Date of last over-flight / survey: 4 - 20 - 2021
- 27. Number of days between over-flights / surveys: 364
- 28. Total permitted landfill airspace in cubic yards: 1,179,420 C.Y.
- 29. FILLED airspace as of this date in cubic yards: 150,054 C.Y.
- 30. Subtract Item 28 from Item 29 to obtain remaining airspace in cubic yards: 1,029,366 C.Y.
- 31. Provide the necessary Cross-sections, maps or drawings



32. Have any waste limits been exceeded horizontally or vertically? Yes No

33. If the answer to Item 32 is “yes”, provide a summary description of the area(s) where the waste boundary or limits have been exceeded. Include, in this summary, a description of the specific locations or areas exceeded, along with volume calculations specifying the amount, in cubic yards, filled outside the permitted airspace. Clearly delineate the areas on the cross sections that must accompany this submittal.

N/A

34. Provide the quantity of waste (in tons) disposed per day by dividing the number of days since the last survey by the waste (in tons) received for the number of days to the date of this annual survey (based on 365 calendar days per year).

9.69 Tons Per Day

Example: ABC Landfill conducts its current annual survey on April 1. The last survey was done on March 15 of the previous year.

Total days between March 15 of 1998 and April 1 of 1999: 365+16=381 days

During the time period from March 15 of the previous year to April 1 of the current year, ABC Landfill disposed of 381,000 tons of all wastes.

Divide 381,000 tons by 381 days.

Thus the ABC Landfill disposed of an average of 1,000 tons of waste per day.

35. Provide the rate of compaction of waste by subtracting the volume of airspace consumed since the last annual survey and dividing the resulting figure by the pounds of waste received since the date of the last survey.

1,352 lbs/ C.Y.

Example: In the previous example, if 381,000 tons of waste was received between March 15, 1998 and April 1, 1999. During that time period, 481,234 CY were filled.

$$\frac{(\# \text{ TONS}) (2,000 \text{ lbs})}{\text{C.Y.}} = \frac{(381,000)(2,000)}{481,234} = 1,583.43 \text{ lbs/ C.Y.}$$

The landfill achieved a compaction rate of 1,583 lbs per cubic yards.

Certification

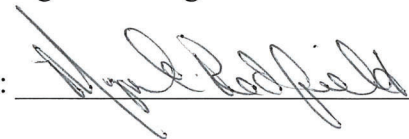
36. Pursuant to 401 KAR 47:160, Section 6, a person with signature authority such as a sole proprietor, owner, partner, corporate officer, plant manager, LLC member, mayor, county judge executive or other authorized official must sign this certification statement.

NOTE: Consultants may not sign the following certification statement.

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for such violations.”

Name of Person Signing (type or print): Myrna E. Redfield

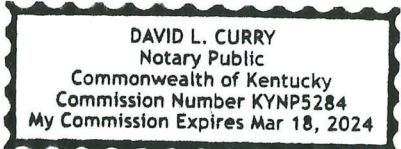
Title of Person Signing: Program Manager Date: 06-09-2022

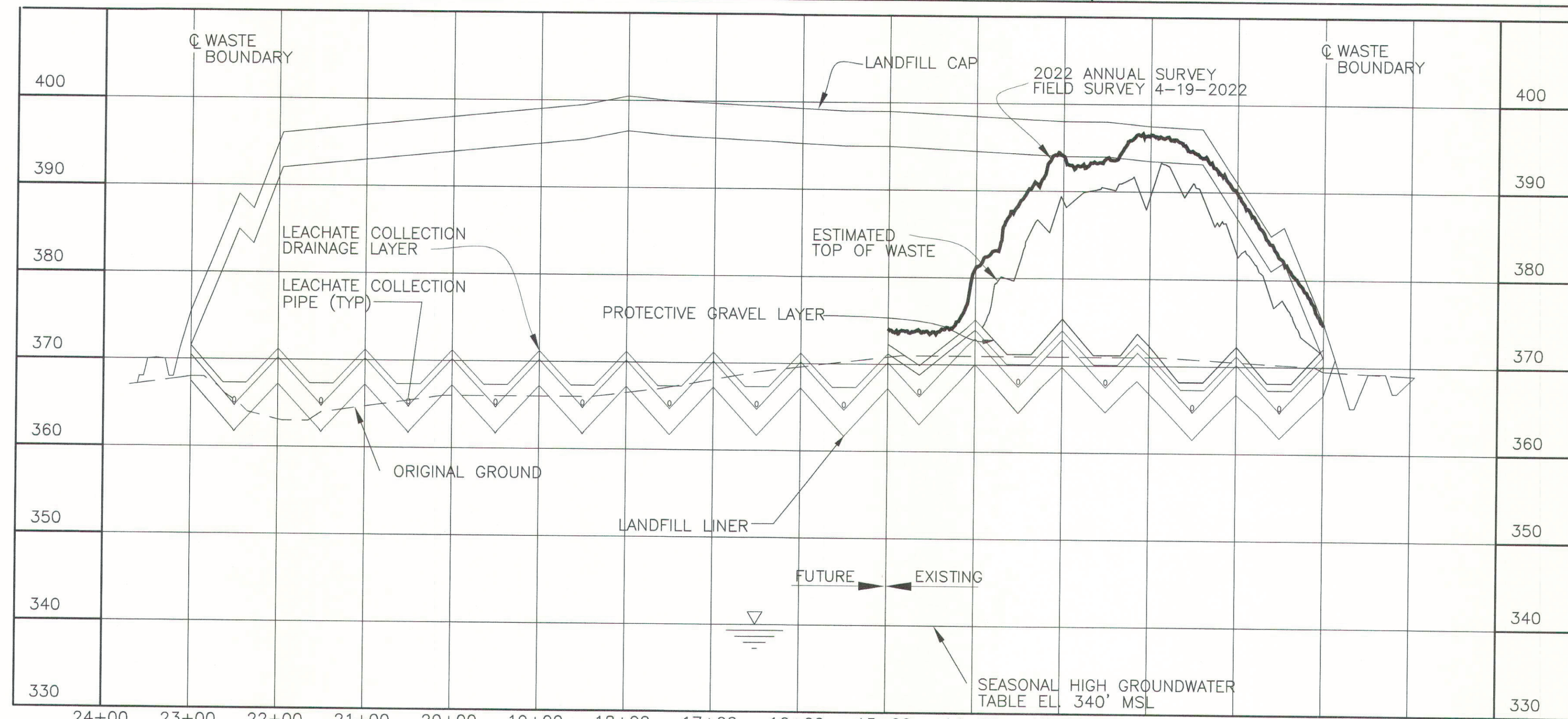
Signature per 401 KAR 47:160: 

Subscribed and sworn to before me this 13 day of June, Year 2022

Notary Public Signature: 

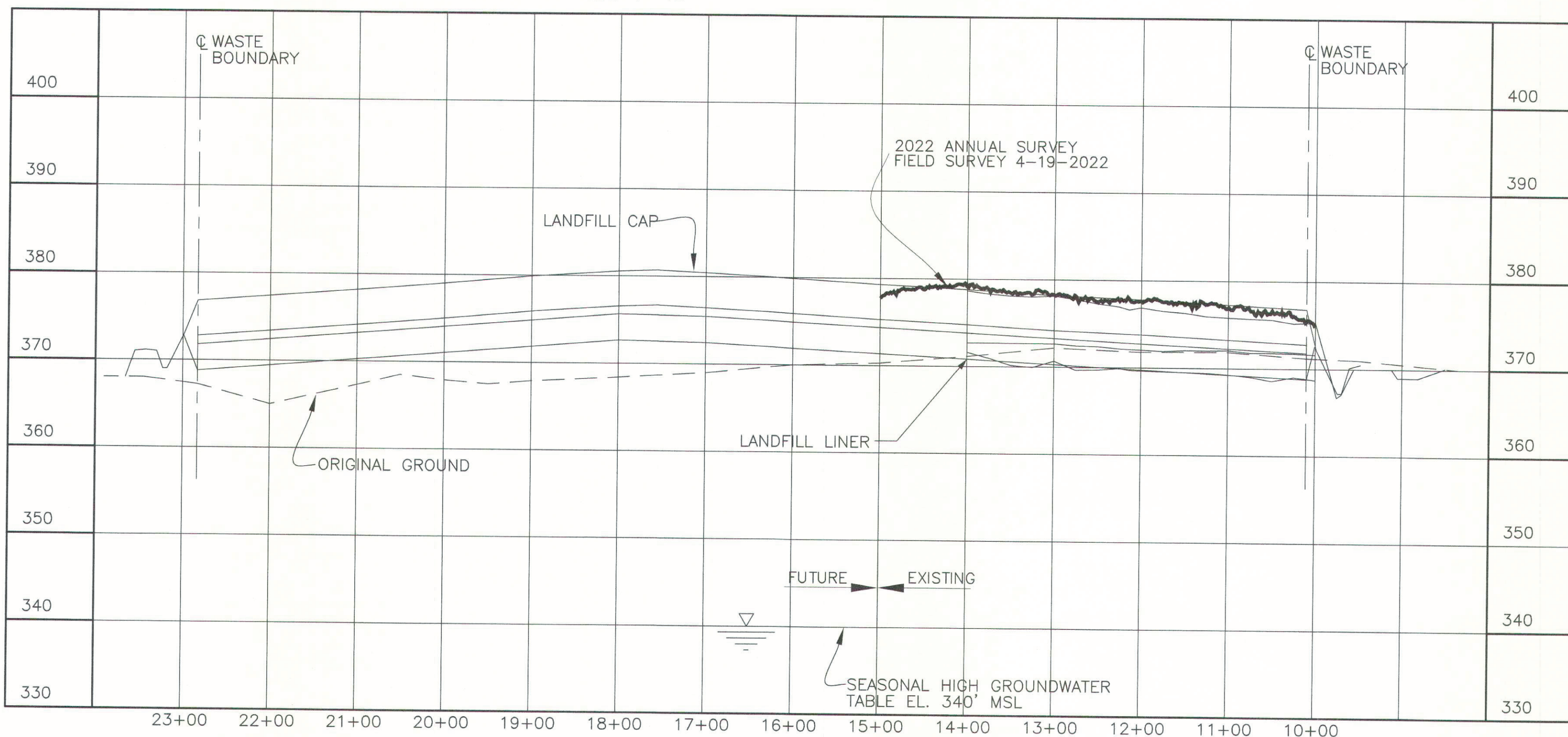
State of KY County of state at large My commission expires: 03/18/2024





SECTION @ STATION 11+00

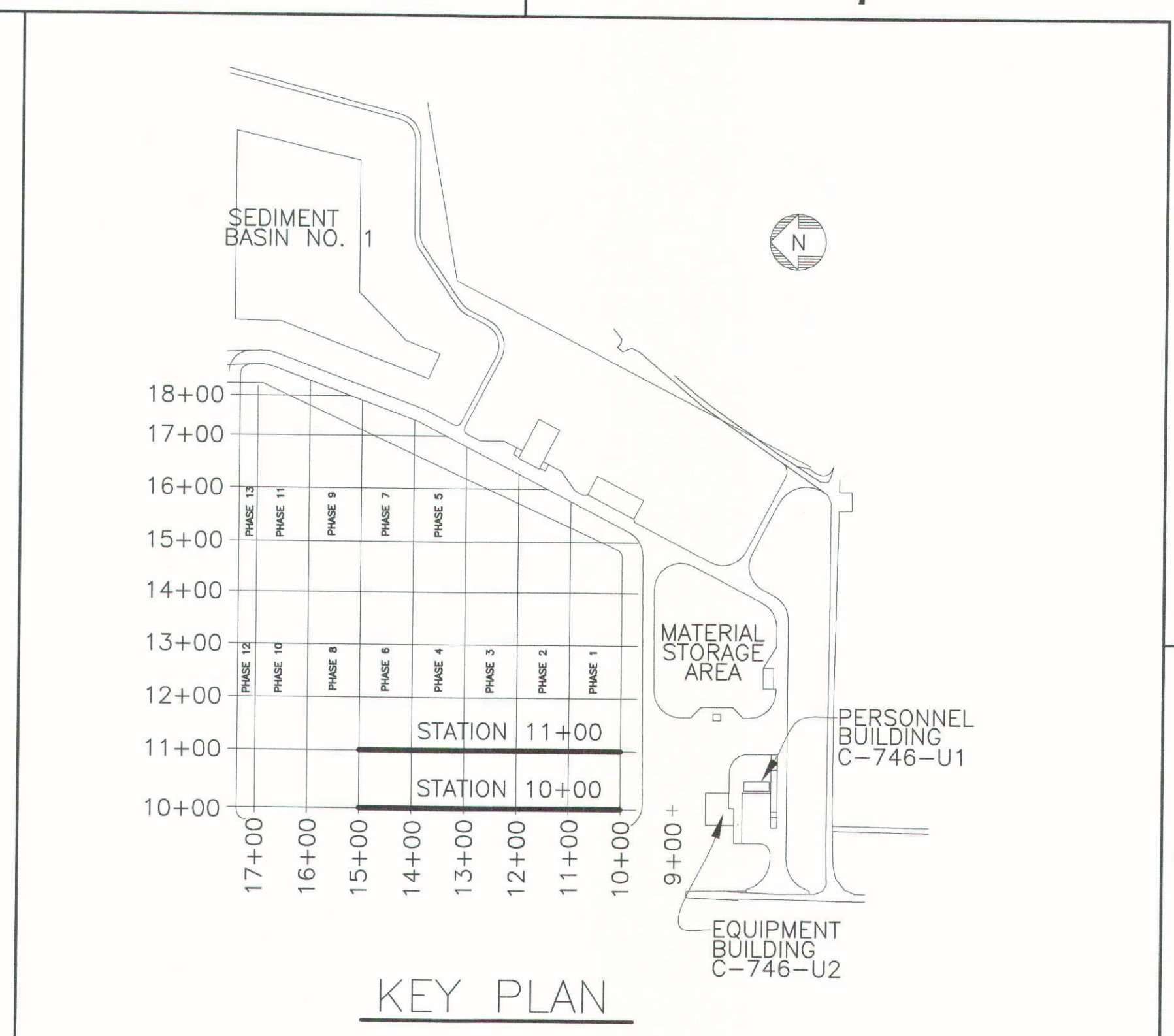
SCALE: HORZ. 1"=100'
VERT 1"=10'



SECTION @ STATION 10+00 - BEGIN WASTE

SCALE: HORZ. 1"=100'
VERT 1"=10'

BEGIN CAP @ STA 9+88



KEY PLAN

NOTE:

- CROSS-SECTIONS ARE SHOWN PERPENDICULAR TO SLOPES TO CLARIFY LAYOUT AND GRADING. DO NOT SCALE CROSS-SECTIONS FOR HORIZONTAL OR VERTICAL LOCATIONS OF SITE FEATURES.
- NO VERTICAL WASTE LIMITS HAVE BEEN EXCEEDED; LONG TERM COVER MATERIAL ENCRANCHING THE FINAL CAP DESIGN ELEVATION WILL BE REMOVED PRIOR TO FINAL CAP CONSTRUCTION.

KEY:

— 2022 ANNUAL SURVEY

17	PAC	JAM	STO	X	TAW	6/4/22
16	PAC	JAM	STO	X	TAW	6/3/21
15	KTW	SCT	DJH	X	TDS	6/9/20
14	KTW	SCT	DJH	X	TDS	5/7/19
13	KTW	SCT	MDS	X	TDS	6/4/18
12	KTW	SCT	MDS	X	KAS	4/23/18
11	KTW	SCT	MDS	X	KAS	4/19/17
10	KTW	SCT	MDS	X	KAS	4/12/17
9	KTW	SCT	MDS	X	KAS	4/19/16
REV	DRW	CHKR	RE	TR	APPD	DATE

NON ESSENTIAL

U.S. DEPARTMENT OF ENERGY
PADUCAH, PORTSMOUTH PROJECT OPERATIONS,
PADUCAH GASEOUS DIFFUSION PLANT

FOUR RIVERS
NUCLEAR PARTNERSHIP, LLC
DOE PRIME CONTRACT # DE-EM0004895

DOE CONTRACT NO. DE-EM0004895

PROJECT NAME:
SOLID WASTE LANDFILL 2022 ANNUAL SURVEY, PGDP

TITLE:
CROSS SECTIONS
STATION 10+00
STATION 11+00

CAD FILE NAME	BUILDING	PLANT	CLASS
C7DC7460UA004 rev17.dwg	OUTSIDE	PGDP	U

SCALE:	DRAWING NUMBER	REV
NOTED	C7DC7460UA004	17

THE ORIGINAL DRAWING AND SUBSEQUENT REVISIONS THEREOF, WITH APPROVAL NAMES, INITIALS, DATES AND WITH THE PE SEAL, IF APPLICABLE, ARE MAINTAINED IN THE FILES. REFERENCE DRAWINGS C5E-59701-C01, C5E-59701-E00, C5E-59701-Q20, C5E-59701-Q21, C5E-59701-Q22, C5E-59701-Q23, C5E-59701-Q24, AND C5E-59701-Q25.

PLS
DATE 6-1-22
PROFESSIONAL SEAL

17	X	AS-BUILT ENTIRE DRAWING FOR 2022 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
16	X	AS-BUILT ENTIRE DRAWING FOR 2021 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
15	X	AS-BUILT ENTIRE DRAWING FOR 2020 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
14	X	AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
13	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
12	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF ENGR	CTRL/NUCL SFTY	FAC MGR	E&TS MGR	ENV COMP

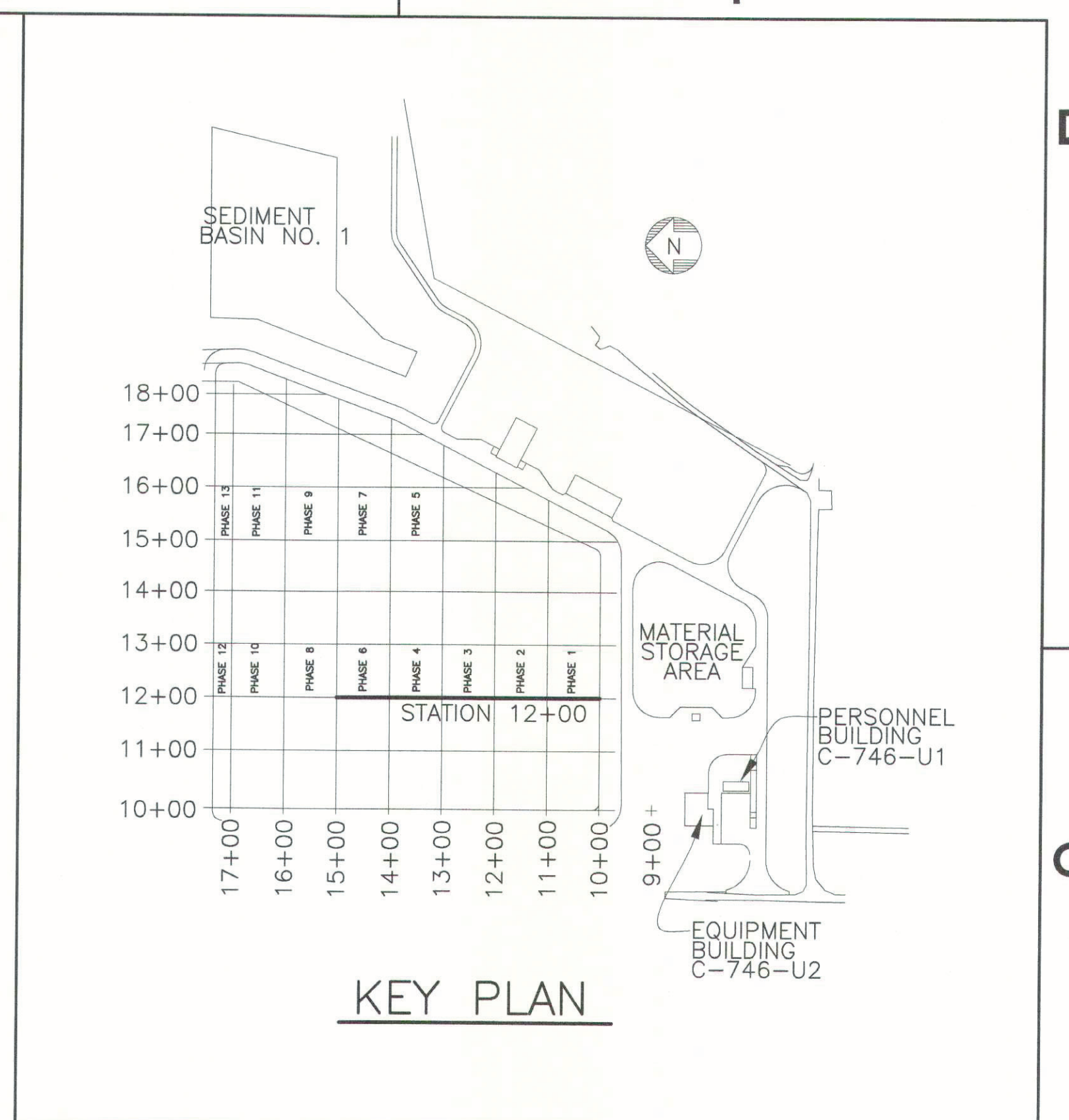
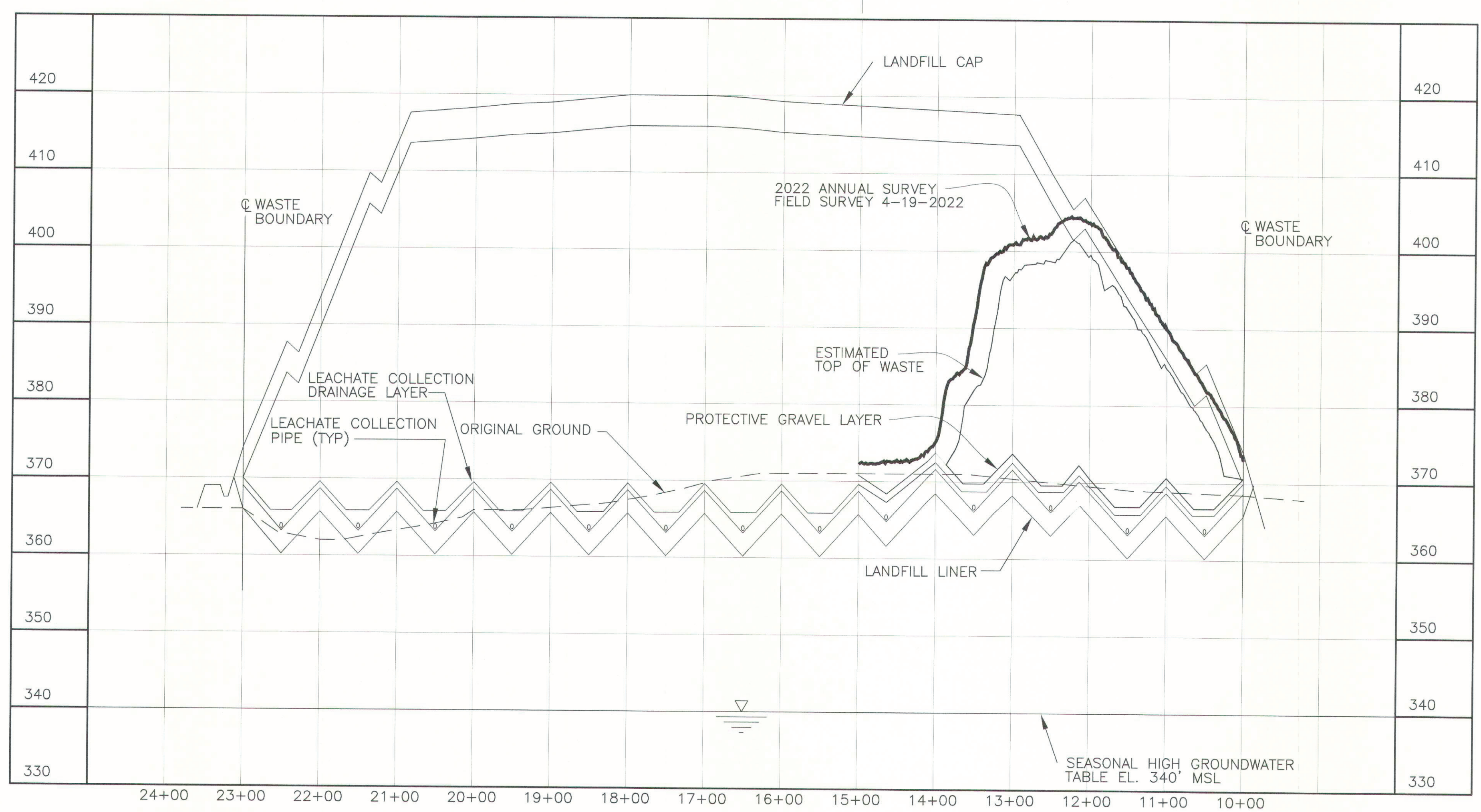
NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT IMPROVE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

SECTION AND DETAIL KEY

6 5 4 3 2 1

D

D



- NOTE:**
- CROSS-SECTIONS ARE SHOWN PERPENDICULAR TO SLOPES TO CLARIFY LAYOUT AND GRADING. DO NOT SCALE CROSS-SECTIONS FOR HORIZONTAL OR VERTICAL LOCATIONS OF SITE FEATURES.
 - NO VERTICAL WASTE LIMITS HAVE BEEN EXCEEDED; LONG TERM COVER MATERIAL ENCRoACHING THE FINAL CAP DESIGN ELEVATION WILL BE REMOVED PRIOR TO FINAL CAP CONSTRUCTION.

KEY:
 — 2022 ANNUAL SURVEY

16	PAC	JAM	STO	X	TAW	6/4/22
15	PAC	JAM	STO	X	TAW	6/3/21
14	KTW	SCT	DJH	X	TDS	6/9/20
13	KTW	SCT	DJH	X	TDS	5/7/19
12	KTW	SCT	MDS	X	TDS	6/4/18
11	KTW	SCT	MDS	X	TDS	4/23/18
10	KTW	SCT	MDS	X	KAS	4/12/17
9	KTW	SCT	MDS	X	KAS	4/19/16
REV	DRW	CHKR	RE	TR	APPD	DATE

SECTION @ STATION 12+00
 SCALE: HORZ. 1"=100'
 VERT 1"=10'

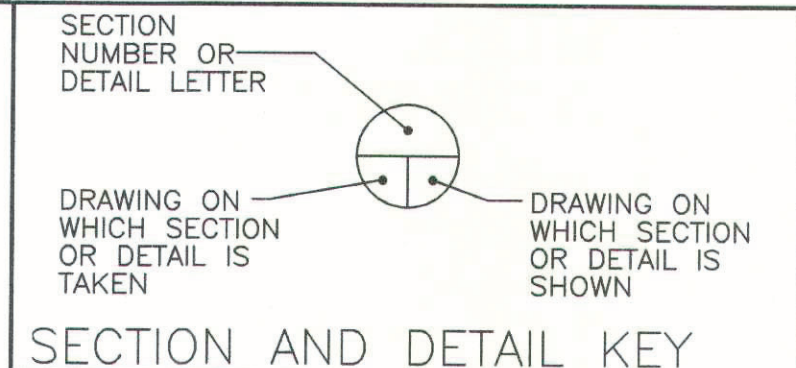
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PLS

FOR 2022 SURVEY
 DATE 6-1-22
 PROFESSIONAL SEAL

16	X	AS-BUILT ENTIRE DRAWING FOR 2022 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
15	X	AS-BUILT ENTIRE DRAWING FOR 2021 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
14	X	AS-BUILT ENTIRE DRAWING FOR 2020 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
13	X	AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
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11	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
10	X	AS-BUILT ENTIRE DRAWING FOR 2017 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
9	X	AS-BUILT ENTIRE DRAWING FOR 2016 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X	X
8	5/15/15	ISSUED FOR 2015 ANNUAL SURVEY	CB	JKT	KLH	JKT	N/A	RGS	KLH	JAJ	
7	5/19/14	ISSUED FOR 2014 ANNUAL SURVEY	KTW	TAW	KLH	JKT	N/A	RGS	KAS	MPL	
6	5/20/13	ISSUED FOR 2013 ANNUAL SURVEY	KTW	KLH	KLH	JKT	N/A	SML	KAF	MPL	
5	4/23/12	ISSUED FOR 2012 ANNUAL SURVEY	HDH	MDS	MDS	JKT	N/A	RGS	RES	MDG	
REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF NUCL SFTY	FAC MGR	EATS MGR	ENV COMP	

U.S. DEPARTMENT OF ENERGY
 PADUCAH, PORTSMOUTH PROJECT OPERATIONS,
 PADUCAH GASEOUS DIFFUSION PLANT

FOUR RIVERS NUCLEAR PARTNERSHIP, LLC
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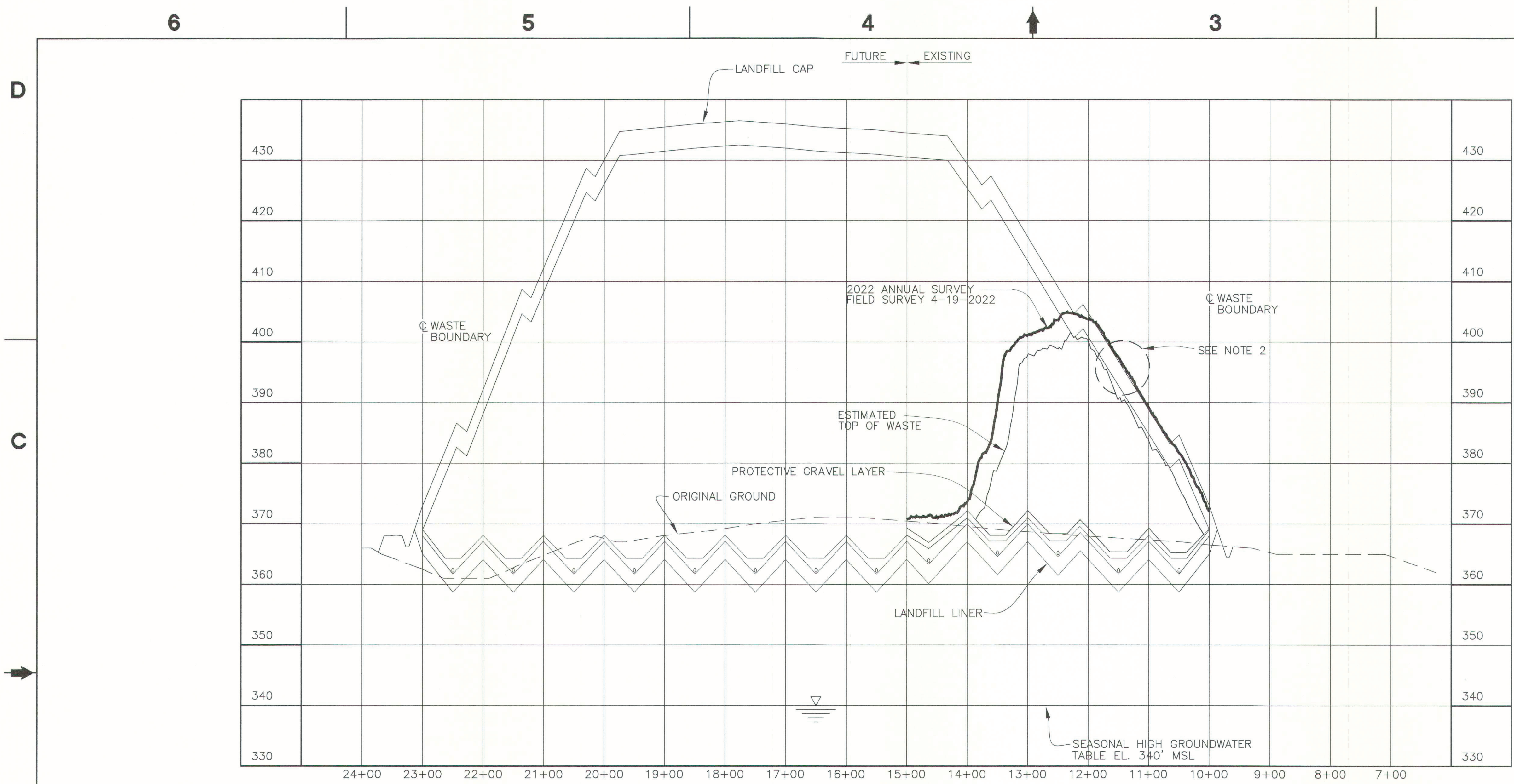
DOE CONTRACT NO. DE-EM0004895

PROJECT NAME:
 SOLID WASTE LANDFILL 2022 ANNUAL SURVEY, PGDP

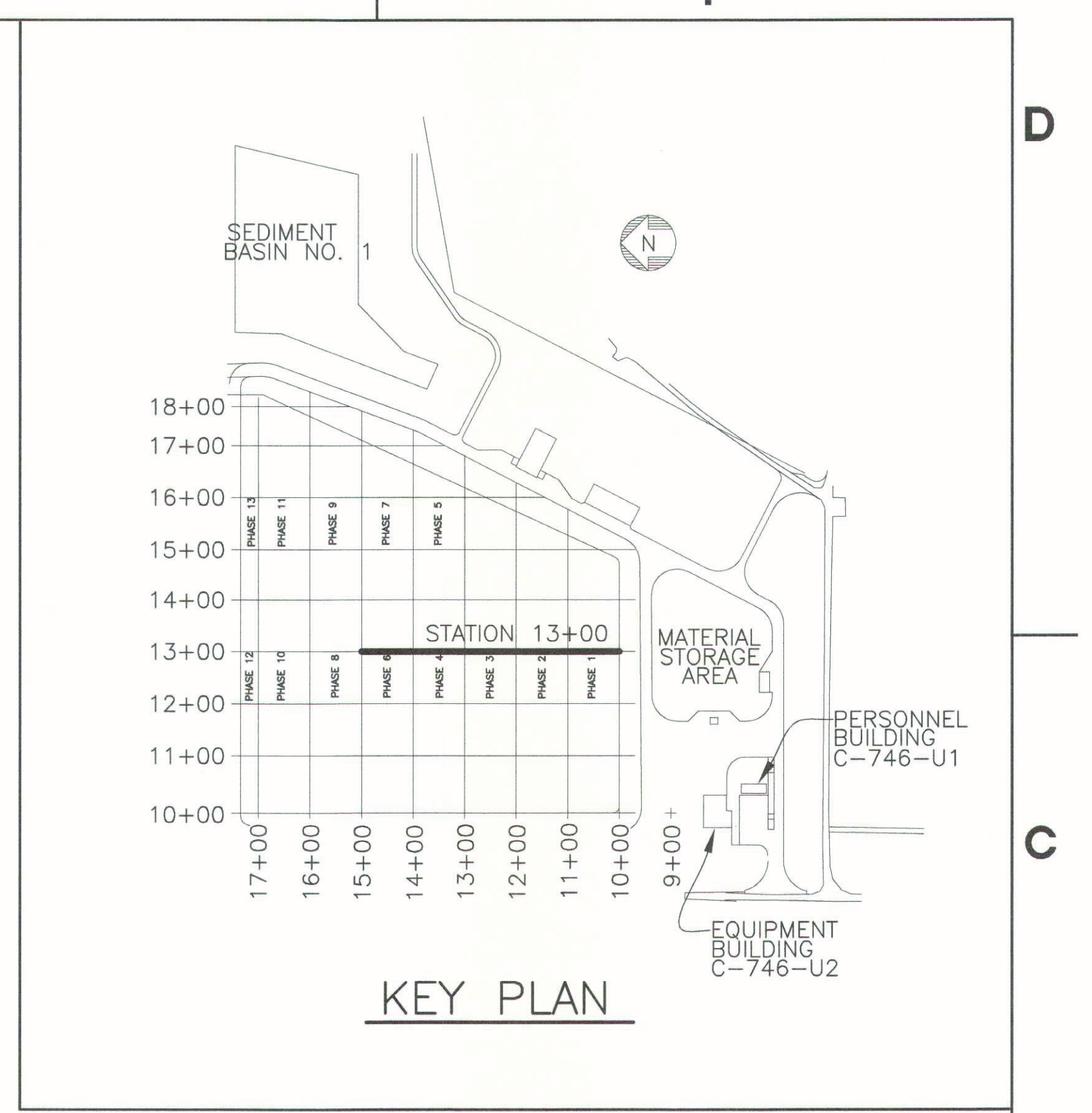
TITLE:
 CROSS SECTION STATION 12+00

CAD FILE NAME	BUILDING OUTSIDE	PLANT PGDP	CLASS U
C7DC7460UA005 rev16.dwg			
SCALE: NOTED	DRAWING NUMBER C7DC7460UA005	REV 16	

6 5 4 3 2 1



SECTION @ STATION 13+00
 SCALE: HORIZ. 1"=100'
 VERT 1"=10'



- NOTE:**
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 - NO VERTICAL WASTE LIMITS HAVE BEEN EXCEEDED; LONG TERM COVER MATERIAL ENCRANCHING THE FINAL CAP DESIGN ELEVATION WILL BE REMOVED PRIOR TO FINAL CAP CONSTRUCTION.

KEY:
 — 2022 ANNUAL SURVEY

REV	DRW	CHKR	RE	TR	APPD	DATE
17	PAC	JAM	STO	X	TAW	6/4/22
16	PAC	JAM	STO	X	TAW	6/3/21
15	KTW	SCT	DJH	X	TDS	6/9/20
14	KTW	SCT	DJH	X	TDS	5/7/19
13	KTW	SCT	MDS	X	TDS	6/4/18
12	KTW	SCT	MDS	X	TDS	4/23/18
11	KTW	SCT	MDS	X	KAS	6/26/17
10	KTW	SCT	MDS	X	KAS	4/12/17

NON ESSENTIAL

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF CTRL/ NUCL SFTY	FAC MGR	E&TS MGR	ENV COMP
17	X	AS-BUILT ENTIRE DRAWING FOR 2022 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
16	X	AS-BUILT ENTIRE DRAWING FOR 2021 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
15	X	AS-BUILT ENTIRE DRAWING FOR 2020 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
14	X	AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
13	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
12	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
11	X	PARTIAL AS-BUILT FOR 6-15-2017 SURVEY RESULTS	X	X	X	X	X	X	X	X
10	X	AS-BUILT ENTIRE DRAWING FOR 2017 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
9	X	AS-BUILT ENTIRE DRAWING FOR 2016 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
8	5/15/15	ISSUED FOR 2015 ANNUAL SURVEY	CB	JKT	KLH	JKT	N/A	RGS	KLH	JAJ
7	5/19/14	ISSUED FOR 2014 ANNUAL SURVEY	KTW	TAW	KLH	JKT	N/A	RGS	KAS	MPL
6	5/20/13	ISSUED FOR 2013 ANNUAL SURVEY	KTW	KLH	KLH	JKT	N/A	SML	KAF	MPL
5	4/23/12	ISSUED FOR 2012 ANNUAL SURVEY	HDH	MDS	MDS	JKT	N/A	RGS	RES	MDG

PLS

STATE OF KENTUCKY
 J.K. PALMER
 3375
 PROFESSIONAL LAND SURVEYOR
 FOR 2022 SURVEY
 DATE 6-1-22
 PROFESSIONAL SEAL

THE ORIGINAL DRAWING AND SUBSEQUENT REVISIONS THEREOF, WITH APPROVAL NAMES, INITIALS, DATES AND WITH THE PE SEAL, IF APPLICABLE, ARE MAINTAINED IN THE FILES. REFERENCE DRAWINGS C5E-59701-C01, C5E-59701-E00, C5E-59701-Q20, C5E-59701-Q21, C5E-59701-Q22, C5E-59701-Q23, C5E-59701-Q24, AND C5E-59701-Q25.

SECTION AND DETAIL KEY

SECTION NUMBER OR DETAIL LETTER

DRAWING ON WHICH SECTION OR DETAIL IS TAKEN

DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

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U.S. DEPARTMENT OF ENERGY
 PADUCAH, PORTSMOUTH PROJECT OPERATIONS,
 PADUCAH GASEOUS DIFFUSION PLANT

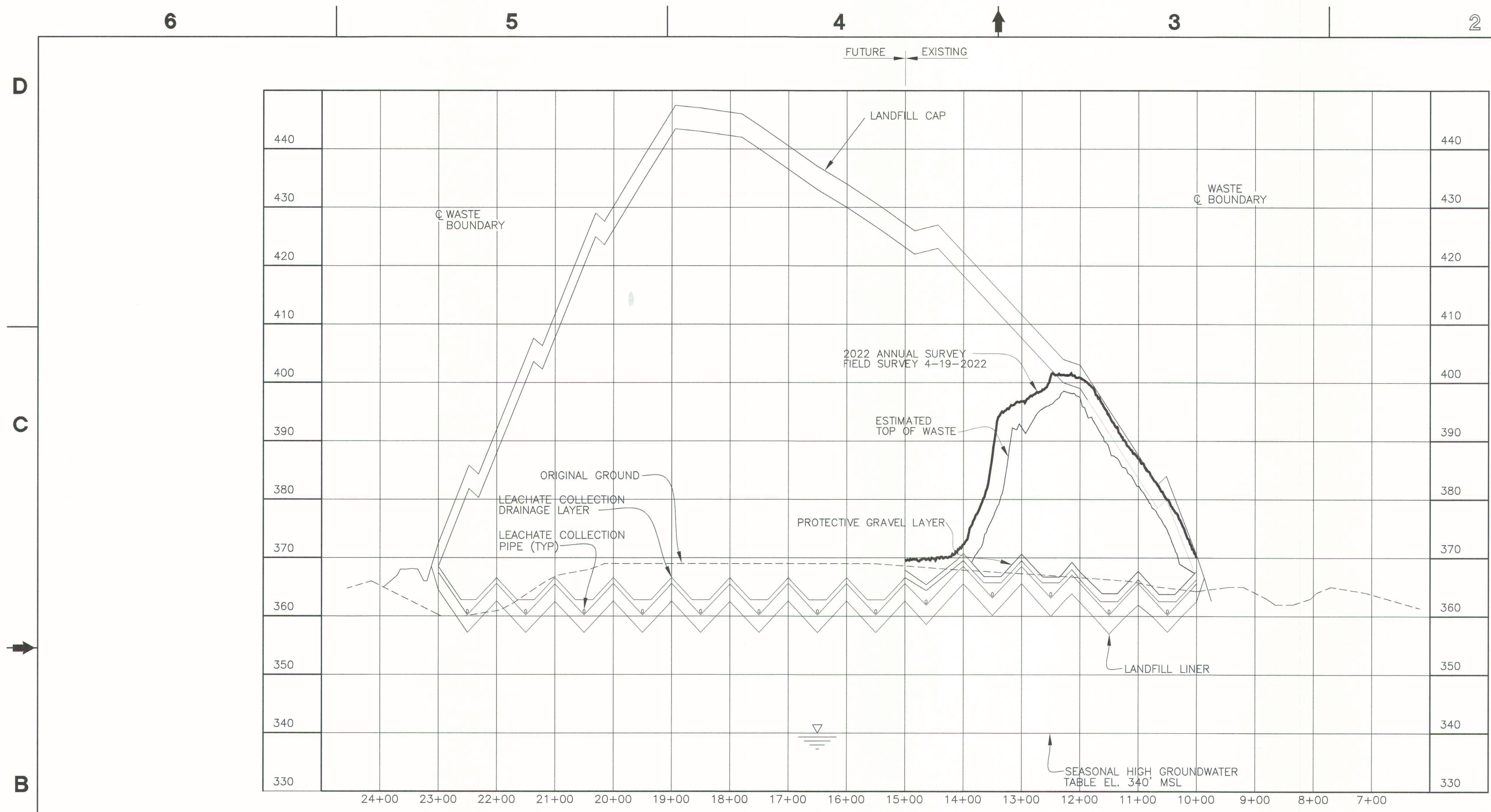
FOUR RIVERS NUCLEAR PARTNERSHIP, LLC
 DOE PRIME CONTRACT # DE-EM004895

DOE CONTRACT NO. DE-EM0004895

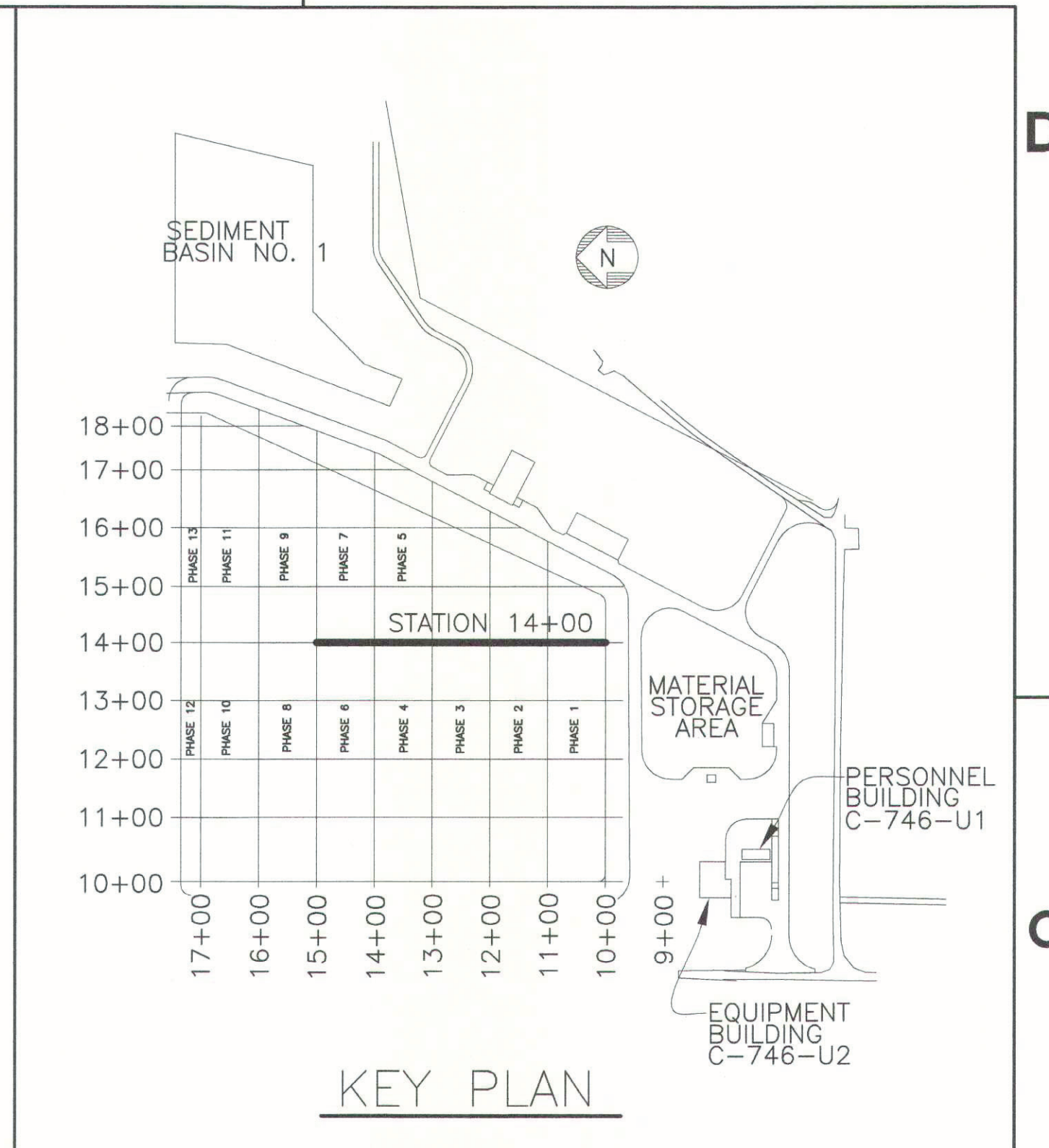
PROJECT NAME:
 SOLID WASTE LANDFILL 2022 ANNUAL SURVEY, PGDP

TITLE:
 CROSS SECTION STATION 13+00

CAD FILE NAME C7DC7460UA006 rev17.dwg	BUILDING OUTSIDE	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA006		REV 17



SECTION @ STATION 14+00
 SCALE: HORZ. 1"=100'
 VERT 1"=10'



- NOTE:**
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 - NO VERTICAL WASTE LIMITS HAVE BEEN EXCEEDED; LONG TERM COVER MATERIAL ENCRANCHING THE FINAL CAP DESIGN ELEVATION WILL BE REMOVED PRIOR TO FINAL CAP CONSTRUCTION.

KEY:
 — 2022 ANNUAL SURVEY

16	PAC	JAM	STO	X	TAW	6/4/22
15	PAC	JAM	STO	X	TAW	6/3/21
14	KTW	SCT	DJH	X	TDS	6/9/20
13	KTW	SCT	DJH	X	TDS	5/7/19
12	KTW	SCT	MDS	X	TDS	6/4/18
11	KTW	SCT	MDS	X	TDS	4/23/18
10	KTW	SCT	MDS	X	KAS	4/12/17
9	KTW	SCT	MDS	X	KAS	4/19/16
REV	DRW	CHKR	RE	TR	APPD	DATE

NON ESSENTIAL

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF. CTRL./NUCL. SFTY	FAC MGR	E&TS MGR	ENV COMP
16		AS-BUILT ENTIRE DRAWING FOR 2022 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
15		AS-BUILT ENTIRE DRAWING FOR 2021 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
14		AS-BUILT ENTIRE DRAWING FOR 2020 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
13		AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
12		AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
11		AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
10		AS-BUILT ENTIRE DRAWING FOR 2017 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
9		AS-BUILT ENTIRE DRAWING FOR 2016 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
8	5/15/15	ISSUED FOR 2015 ANNUAL SURVEY	CB	JKT	KLH	JKT	N/A	RGS	KLH	JAJ
7	5/19/14	ISSUED FOR 2014 ANNUAL SURVEY	KTW	TAW	KLH	JKT	N/A	RGS	KAS	MPL
6	5/20/13	ISSUED FOR 2013 ANNUAL SURVEY	KTW	KLH	KLH	JKT	N/A	SML	KAF	MPL

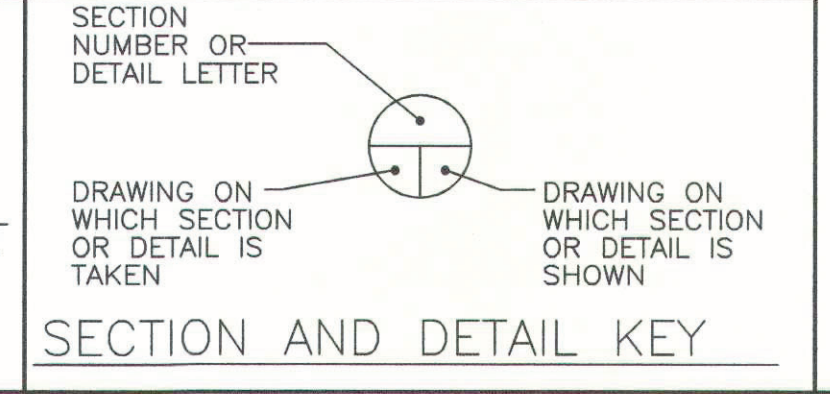
PLS

STATE OF KENTUCKY
 J.K. PALMER
 3372
 PROFESSIONAL AND SURVEYOR
 JAMES K. PALMER

FDR 2022 SURVEY
 DATE 6-1-22
 PROFESSIONAL SEAL

THE ORIGINAL DRAWING AND SUBSEQUENT REVISIONS THEREOF, WITH APPROVAL NAMES, INITIALS, DATES AND WITH THE PE SEAL, IF APPLICABLE, ARE MAINTAINED IN THE FILES. REFERENCE DRAWINGS C5E-59701-C01, C5E-59701-E00, C5E-59701-Q20, C5E-59701-Q21, C5E-59701-Q22, C5E-59701-Q23, C5E-59701-Q24, AND C5E-59701-Q25.

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U.S. DEPARTMENT OF ENERGY
 PADUCAH, PORTSMOUTH PROJECT OPERATIONS,
 PADUCAH GASEOUS DIFFUSION PLANT

FOUR RIVERS NUCLEAR PARTNERSHIP, LLC
 DOE PRIME CONTRACT # DE-EM0004895

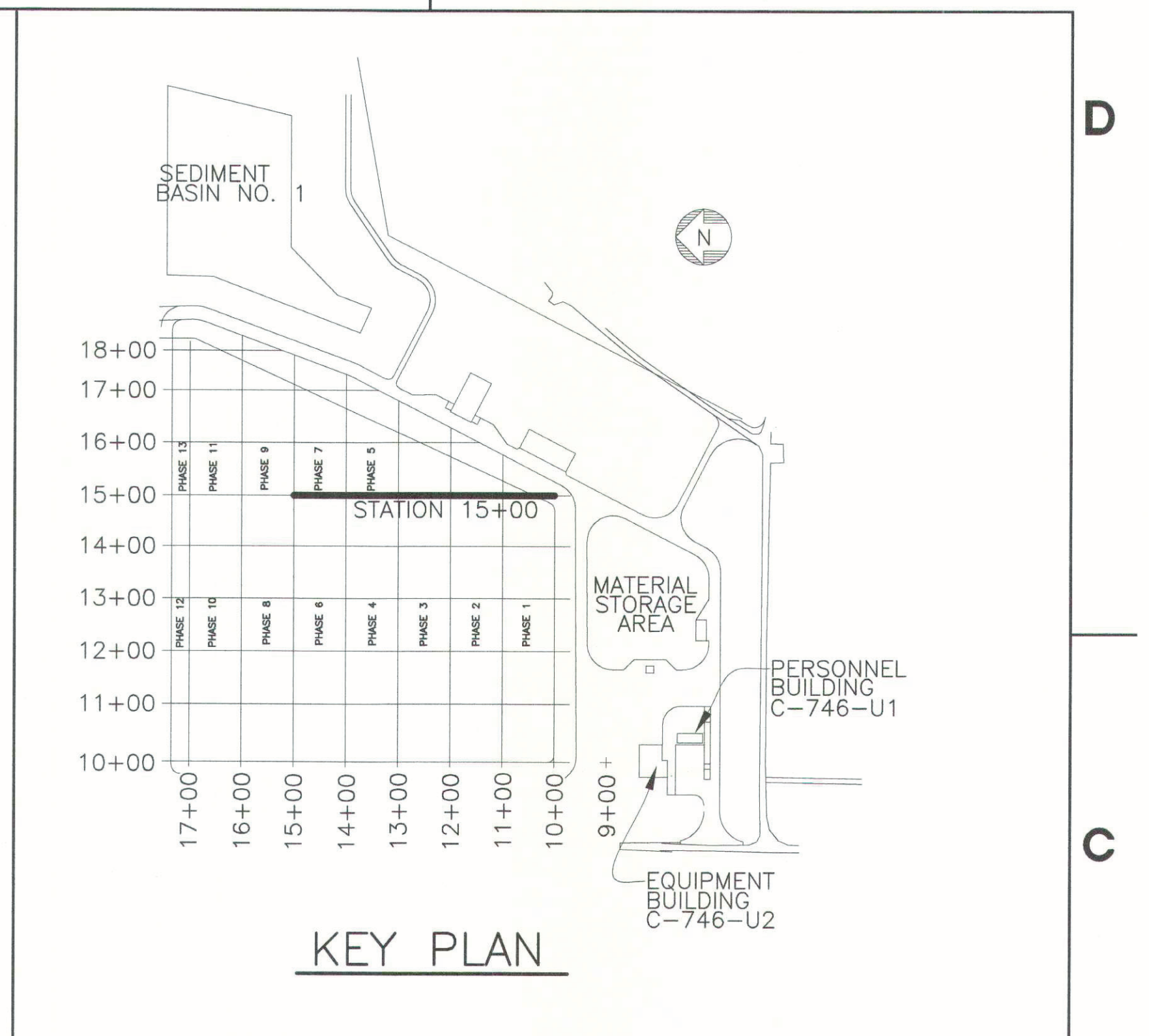
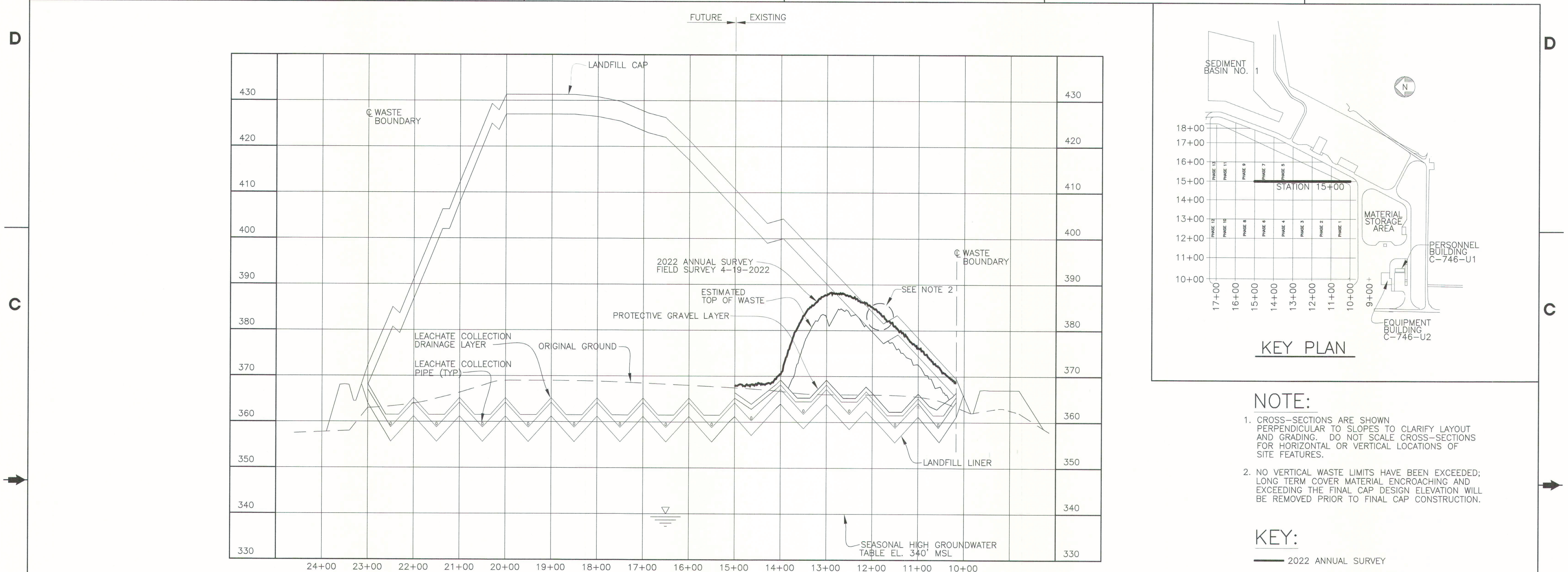
DOE CONTRACT NO. DE-EM0004895

PROJECT NAME:
 SOLID WASTE LANDFILL 2022 ANNUAL SURVEY, PGDP

TITLE:
 CROSS SECTION STATION 14+00

CAD FILE NAME C7DC7460UA007 rev16.dwg	BUILDING OUTSIDE	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA007	REV 16	

6 5 4 3 2 1



- NOTE:**
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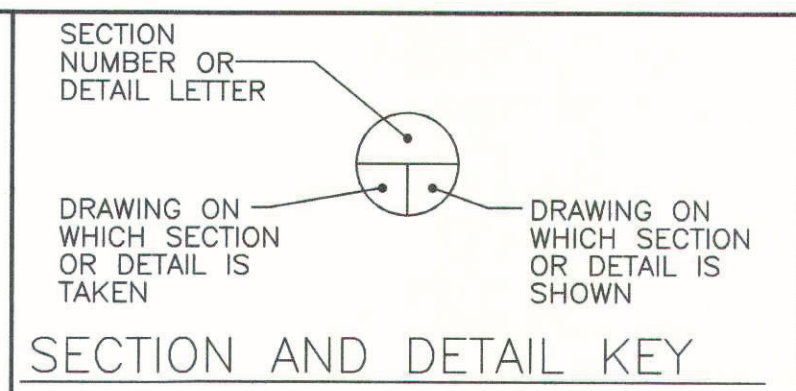
KEY:
 — 2022 ANNUAL SURVEY

SECTION @ STATION 15+00
 SCALE: HORZ. 1"=100'
 VERT 1"=10'

16	PAC	JAM	STO	X	TAW	6/4/22
15	PAC	JAM	STO	X	TAW	6/3/21
14	KTW	SCT	DJH	X	TDS	6/9/20
13	KTW	SCT	DJH	X	TDS	5/7/19
12	KTW	SCT	MDS	X	TDS	6/4/18
11	KTW	SCT	MDS	X	TDS	4/23/18
10	KTW	SCT	MDS	X	KAS	4/12/17
9	KTW	SCT	MDS	X	KAS	4/19/16
REV	DRW	CHKR	RE	TR	APPD	DATE

NON ESSENTIAL

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PLS

STATE OF KENTUCKY

J.K. PALMER

PROFESSIONAL ENGINEER AND SURVEYOR

FOR 2022 SURVEY

DATE 6-1-22

PROFESSIONAL SEAL

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF NUGL SFTY	FAC MGR	E&T MGR	ENV COMP
16	X	AS-BUILT ENTIRE DRAWING FOR 2022 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
15	X	AS-BUILT ENTIRE DRAWING FOR 2021 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
14	X	AS-BUILT ENTIRE DRAWING FOR 2020 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
13	X	AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
12	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
11	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
10	X	AS-BUILT ENTIRE DRAWING FOR 2017 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
9	4/19/16	AS-BUILT ENTIRE DRAWING FOR 2016 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
8	5/15/15	ISSUED FOR 2015 ANNUAL SURVEY	CB	JKT	KLH	JKT	N/A	RGS	KLH	JAJ
7	5/19/14	ISSUED FOR 2014 ANNUAL SURVEY	KTW	TAW	KLH	JKT	N/A	RGS	KAS	MPL
6	5/20/13	ISSUED FOR 2013 ANNUAL SURVEY	KTW	KLH	KLH	JKT	N/A	SML	KAF	MPL
5	4/23/12	ISSUED FOR 2012 ANNUAL SURVEY	HDH	MDS	MDS	JKT	N/A	RGS	RES	MDG

U.S. DEPARTMENT OF ENERGY

PADUCAH, PORTSMOUTH PROJECT OPERATIONS,
 PADUCAH GASEOUS DIFFUSION PLANT

FOUR RIVERS
 NUCLEAR PARTNERSHIP, LLC

DOE PRIME CONTRACT # DE-EM0004895

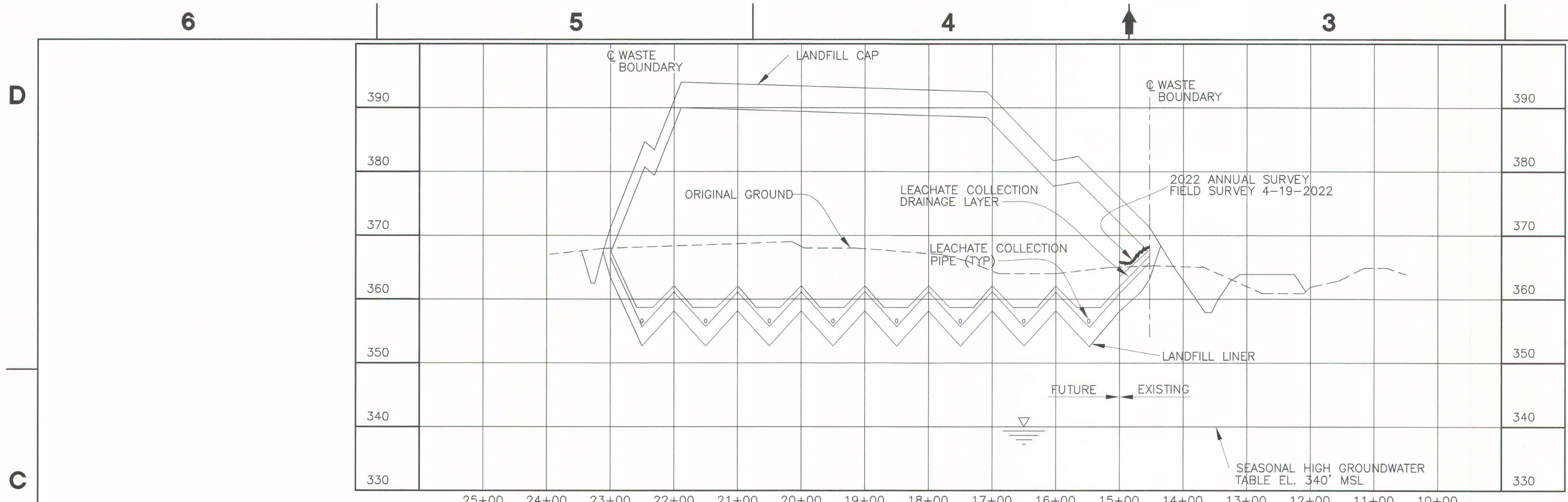
DOE CONTRACT NO. DE-EM0004895

PROJECT NAME:
 SOLID WASTE LANDFILL 2022 ANNUAL SURVEY, PGDP

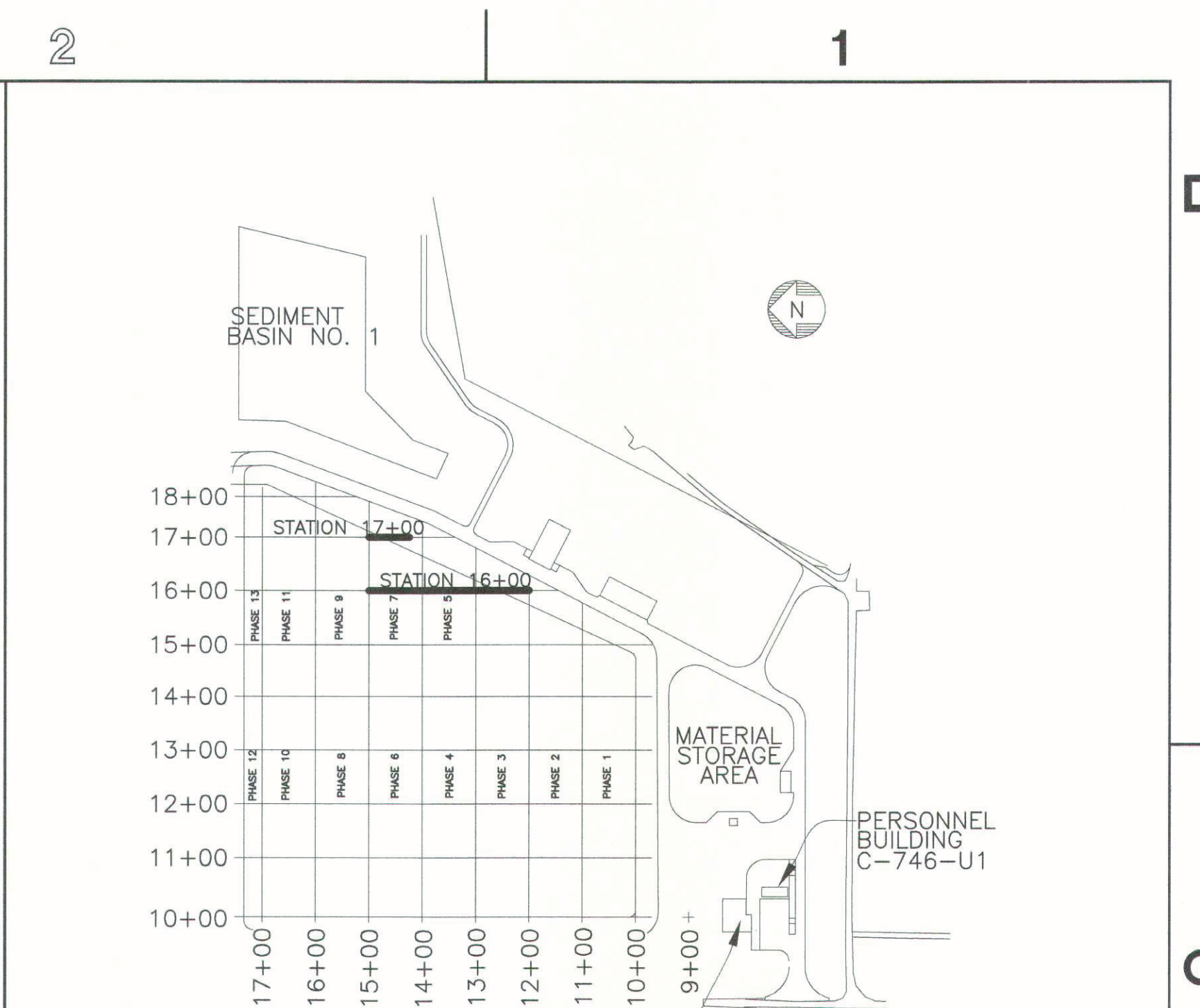
TITLE:
 CROSS SECTION
 STATION 15+00

CAD FILE NAME	BUILDING	PLANT	CLASS
C7DC7460UA008 rev16.dwg	OUTSIDE	PGDP	U
SCALE:	DRAWING NUMBER	REV	
NOTED	C7DC7460UA008	16	

6 5 4 3 2 1



SECTION @ STATION 17+00
 SCALE: HORZ. 1"=100'
 VERT 1"=10'



KEY PLAN

NOTE:

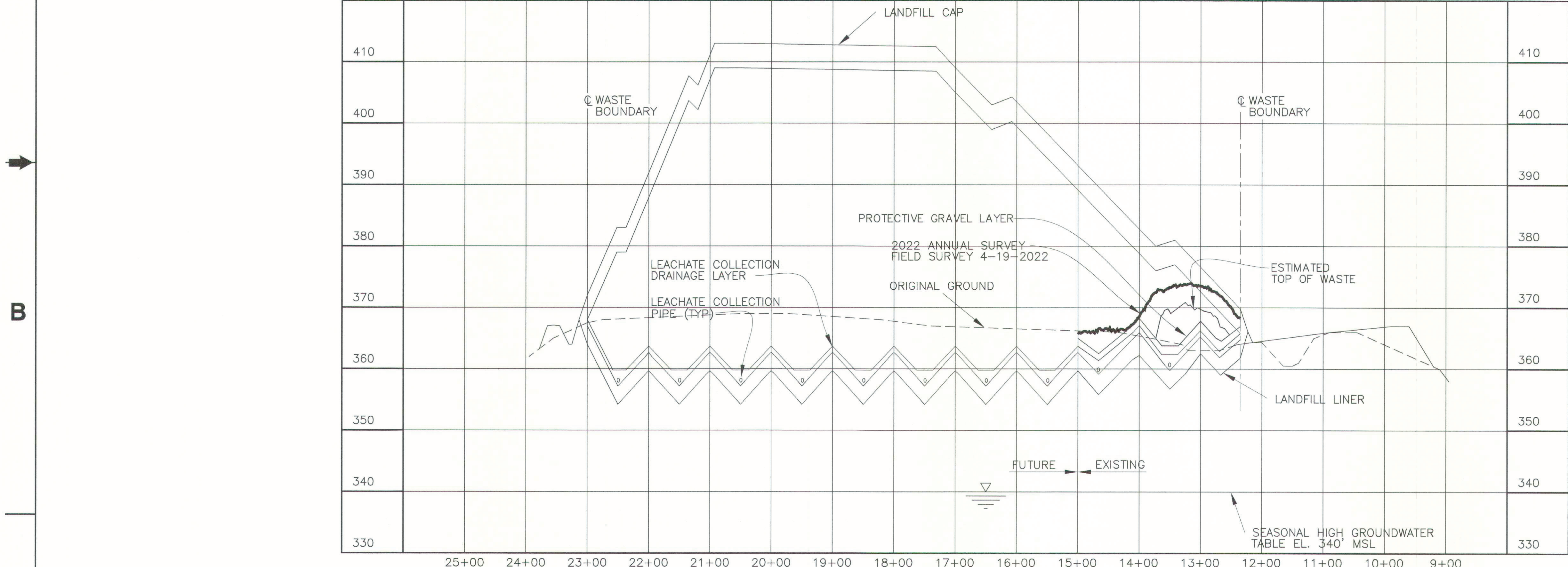
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KEY:

— 2022 ANNUAL SURVEY

15	PAC	JAM	STO	X	TAW	6/4/22
14	PAC	JAM	STO	X	TAW	6/3/21
13	KTW	SCT	DJH	X	TDS	6/9/20
12	KTW	SCT	DJH	X	TDS	5/7/19
11	KTW	SCT	MDS	X	TDS	6/4/18
10	KTW	SCT	MDS	X	TDS	4/23/18
9	KTW	SCT	MDS	X	KAS	4/12/17
8	KTW	SCT	MDS	X	KAS	4/19/16
REV	DRW	CHKR	RE	TR	APPD	DATE

NON ESSENTIAL



SECTION @ STATION 16+00
 SCALE: HORZ. 1"=100'
 VERT 1"=10'

PLS

STATE OF KENTUCKY
 J.K. PALMER
 357
 PROFESSIONAL LAND SURVEYOR
 FOR 2022 SURVEY

DATE 6-1-22
 PROFESSIONAL SEAL

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF CTRL/NUCL SFTY	FAC MGR	E&TS MGR	ENV COMP
15	X	AS-BUILT ENTIRE DRAWING FOR 2022 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
14	X	AS-BUILT ENTIRE DRAWING FOR 2021 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
13	X	AS-BUILT ENTIRE DRAWING FOR 2020 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
12	X	AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
11	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
10	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
7	5/15/15	ISSUED FOR 2015 ANNUAL SURVEY	CB	JKT	KLH	JKT	N/A	RGS	KLH	JAJ

U.S. DEPARTMENT OF ENERGY
 PADUCAH, PORTSMOUTH PROJECT OPERATIONS,
 PADUCAH GASEOUS DIFFUSION PLANT

FOUR RIVERS NUCLEAR PARTNERSHIP, LLC
 DOE PRIME CONTRACT # DE-EM0004895

DOE CONTRACT NO. DE-EM0004895

PROJECT NAME: SOLID WASTE LANDFILL 2022 ANNUAL SURVEY, PGDP

TITLE: CROSS SECTIONS STATION 16+00 STATION 17+00

CAD FILE NAME	BUILDING	PLANT	CLASS
C7DC7460UA009 rev15.dwg	OUTSIDE	PGDP	U

SCALE:	DRAWING NUMBER	REV
NOTED	C7DC7460UA009	15

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SECTION AND DETAIL KEY

SECTION NUMBER OR DETAIL LETTER

DRAWING ON WHICH SECTION OR DETAIL IS TAKEN

DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

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PGDP C-746-U Landfill
Volume of Soil to be Removed Prior to Final Cap

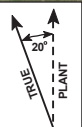
The Landfill is referenced to a Transit Line (TL) that is oriented North/South and a Base Line (BL) that is oriented East/West.

The TL stations are used herein to provide a reference to the beginning and ending locations of the exceedances shown in the cross-section drawings which are cut at each BL Station.

Cross-section	Beginning Point	Ending Point	Volume of Soil to be Removed (CY)
BL STA 10+00	TL STA 10+00	TL STA 14+00	
			3184
BL STA 11+00	TL STA 10+04	TL STA 12+41	
			1863
BL STA 12+00	TL STA 10+04	TL STA 12+35	
			2519
BL STA 13+00	TL STA 10+03	TL STA 12+46	
			2331
BL STA 14+00	TL STA 10+04	TL STA 12+32	
			1910
BL STA 15+00	TL STA 10+23	TL STA 12+74	
			1155
BL STA 16+00	TL STA 12+41	TL STA 13+03	
			98
BL STA 16+50	TL STA 13+44	TL STA 13+70	
Total Volume of Soil to be Removed Prior to Installation of Final Cap			13060

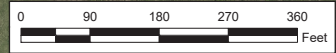


Phase 22	Phase 23
Phase 20	Phase 21
Phase 18	Phase 19
Phase 16	Phase 17
Phase 14	Phase 15
Phase 12	Phase 13
Phase 10	Phase 11
Phase 8	Phase 9
Phase 6	Phase 7
Phase 4	Phase 5
Phase 3	
Phase 2	
Phase 1	



C-746-U PHASES

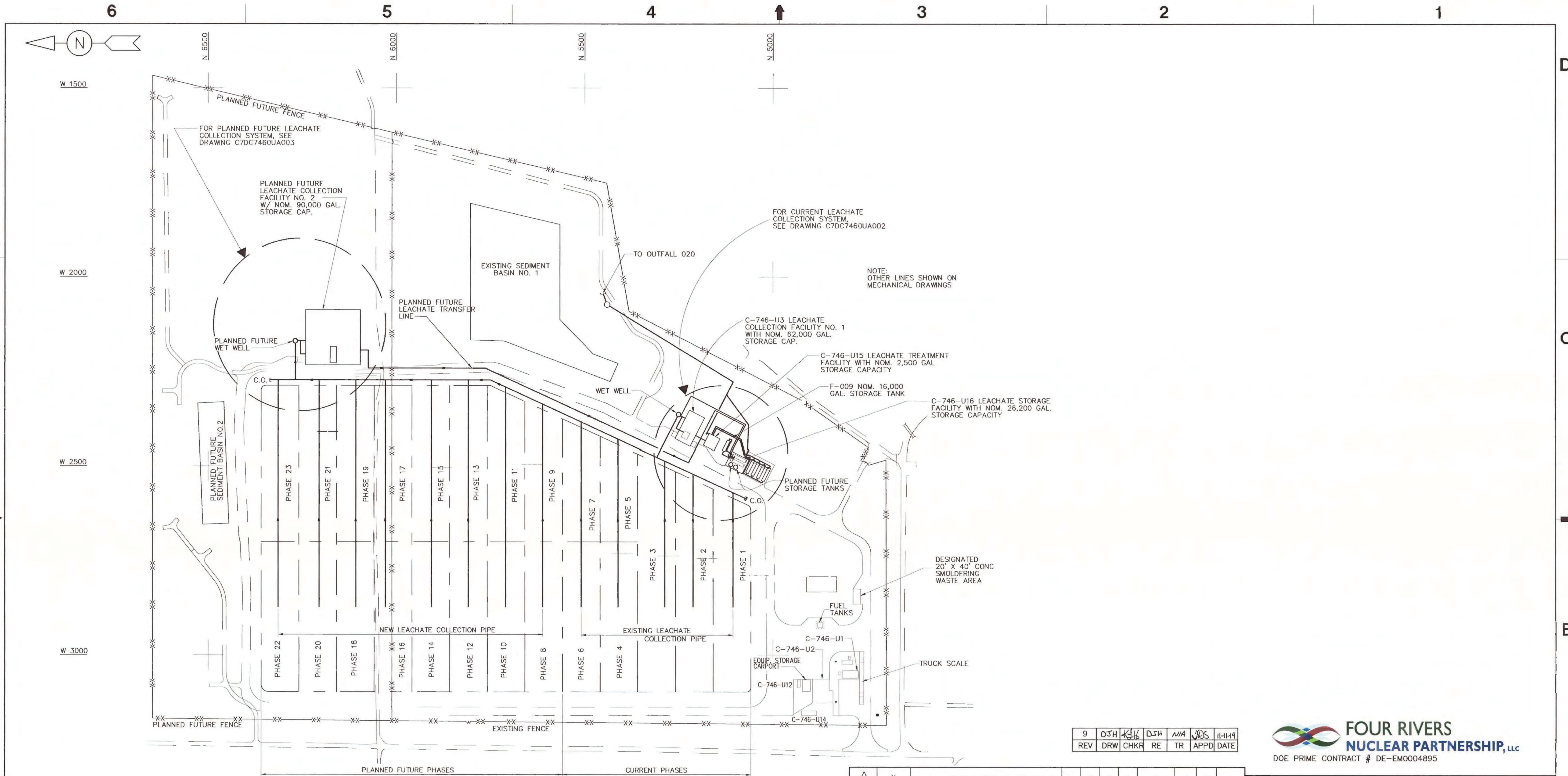
- WASTE PLACED IN AREA
- IN PROGRESS
- AWAITING CONSTRUCTION
NO LINER AT THIS TIME



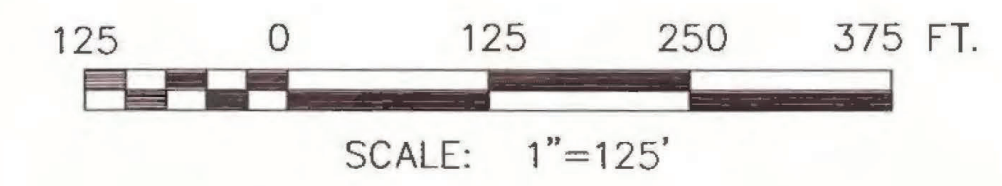
U.S. DEPARTMENT OF ENERGY
DOE PORTSMOUTH/PADUCAH PROJECT OFFICE
PADUCAH GASEOUS DIFFUSION PLANT



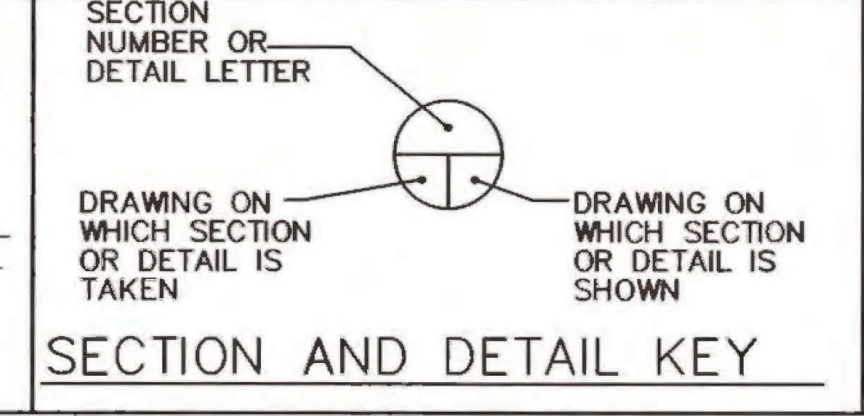
C-746-U Landfill Phases



SITE PLAN



NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE RIGHTS OF OTHERS. NO LIABILITY IS ASSUMED WITH RESPECT TO THE USE OF, OR FOR DAMAGES RESULTING FROM THE USE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS. DRAWINGS MADE AVAILABLE FOR INFORMATION TO BIDDER ARE TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.



LPE

11-11-2019

DATE

PROFESSIONAL SEAL

9	DJH	KLH	DJH	N/A	JES	11-14-19
REV	DRW	CHKR	RE	TR	APPD	DATE

FOUR RIVERS
NUCLEAR PARTNERSHIP, LLC
DOE PRIME CONTRACT # DE-EM0004895

U.S. DEPARTMENT OF ENERGY
PADUCAH, PORTSMOUTH PROJECT OPERATIONS,
PADUCAH GASEOUS DIFFUSION PLANT

LATA Environmental Services managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC30-10CC40020 Paducah, Kentucky

DOE CONTRACT NO. DE-AC30-10CC40020

PROJECT NAME:
WASTE DISPOSAL PROJECT

TITLE:
C-746-U SOLID WASTE LANDFILL
SITE LEACHATE COLLECTION SYSTEM
PHASES 1 THRU 23 SITE PLAN

CAD FILE NAME C7DC7460UA001 rev9.dwg	BUILDING C-746-U	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA001		REV 9

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ENGR	LEAD ENGR	CONF. NUCL. SFTY	FAC MGR	E&TS MGR
9	X	AS-BUILT ENTIRE DRAWING FOR ESO FA5230	X	X	X	X	X	X	X
8	8/4/14	ADDED EQUIPMENT STORAGE CARPORT	KTW	PAC	DJH	DJH	JBK	RGS	KAS
7	6/5/14	ISSUED FOR KDWM-PERMIT MOD.	KTW	DJH	DJH	DJH	PAC	-	RGS
6	5/13/14	ISSUED FOR KDWM-PERMIT MOD.	KTW	JAF	DJH	DJH	PAC	-	RGS
5	1/15/13	ISSUED FOR KDWM APPROVAL	KTW	JKT	KLH	JKT	JKT	-	SML
4	12/10/12	AS-BUILT - CORRECTED TANK CAPACITIES	KTW	JKT	KLH	JKT	JKT	-	SML
3	1/13/10	AS-BUILT - (REV 2)	HDH	---	LF	LCF	LF	---	EWI
2	6/10/08	ISSUED FOR KDWM APPROVAL (6/08)	JWP	---	DLA	---	JKL	---	PEC
1	8/13/07	REVISED FOR KDWM NOD#3 REQUIREMENTS	JWP	---	DLA	---	KLH	---	PEC
0	4/16/07	ISSUED FOR KDWM APPROVAL	JWP	---	DLA	---	KLH	---	PEC