



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

June 17, 2020

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-02-10006249-20B

Dear Ms. Nielsen:

**2020 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 Paducah Gaseous Diffusion Plant's 2020 Solid Waste Landfill Annual Survey Form, DEP 8059 (6/10), and associated cross-section drawings for Kentucky Division of Waste Management (KDWM) information, as required by 401 KAR 47:190 § 8(2) (Enclosures 1, 2, and 3).

Four Rivers Nuclear Partnership, LLC, completed field work in support of the Annual Survey on April 28, 2020.

On May 11, 2020, the U.S. Department of Energy (DOE) discussed with KDWM item numbers (Nos.) 32 and 33 on Form DEP 8059 (6/10). For item No. 32, DOE discussed with KDWM that no waste limits have been exceeded horizontally or vertically; therefore, the box on Page 4 should not be checked "Yes." DOE does acknowledge that the cover material exceeds the permitted final grade at Station 15+00. This cover material is identified appropriately on the annual survey drawing with an explanation that the material will be removed prior to closure.

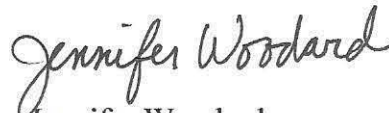
DOE is also providing the enclosed summary table (Enclosure 4) requested in item No. 33 containing the beginning and ending location of any cover material exceedances (left or right of the baseline) and the total amount of cover material to be removed in order to construct the final cap. The summary table was prepared using the average end area method to calculate the amount of soil to be removed prior to final cap installation. There are no differences in cover material exceedances between the 2019 and 2020 survey contours. Therefore, the reported values submitted to KDWM for the 2019 annual landfill survey are reflected in Enclosure 4.

During the May 11, 2020, conference call, KDWM requested additional detail in answering line item No. 35 of Form DEP 8059 (6/10). The rate of compaction was calculated by dividing the quantity of waste received since the last survey (1,210.07 tons) by the difference between the filled airspace from the 2019 landfill survey (133,594.4 cubic yards) and the 2020 landfill survey (136,118.8 cubic yards), rounded to the nearest tenth of cubic yard. The reported rate of compaction is 959 lbs. per cubic yard, rounded to the nearest whole number.

To assist in the review, the previously submitted C-746-U Landfill Phases R3 figure, Drawing C7DC7460UA001 R9, and Drawing C5E-59701-K10 RB are included (Enclosures 5, 6, and 7).

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

Sincerely,



Jennifer Woodard
Paducah Site Lead
Portsmouth/Paducah Project Office

Enclosures:

1. 2020 Annual Survey Form DEP 8059 (6/10)
2. C-746-U Landfill 2020 Annual Landfill Survey Drawings
3. Certification Page
4. "Volume of Soil to be Removed Prior to Final Cap Construction"
5. C-746-U Landfill Phases R3
6. Engineering Drawing C7DC7460UA001 R9
7. Engineering Drawing C5E-59701-K10 RB

cc w/enclosures:

abigail.parish@pppo.gov, PPPO
april.webb@ky.gov, KDEP
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pad.rmc@pad.pppo.gov
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tracey.duncan@pppo.gov, PPPO



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.

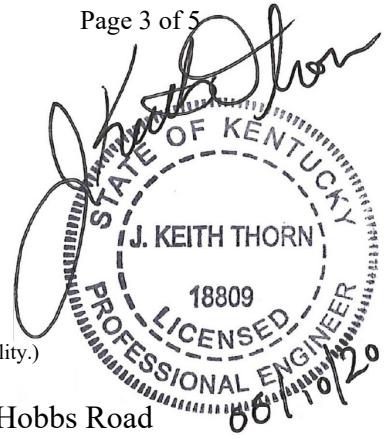
To assist you in the submittal of a complete and accurate report, the DWM has identified the most common errors found during the review process. These errors are listed below for your convenience.

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: Mitchell Stewart, P.L.S. Number 3237
 - 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.: 942 Expires: 12 - 31 - 2020
 - d. Individual - KY L. S. License No.: 3237 Expires: 6 - 30 - 2020



Facility Information

25. Date of current over-flight / survey: 4 - 28 - 2020
26. Date of last over-flight / survey: 4 - 16 - 2019
27. Number of days between over-flights / surveys: 378
28. Total permitted landfill airspace in cubic yards: 1,179,420 C.Y.
29. FILLED airspace as of this date in cubic yards: 136,119 C.Y.
30. Subtract Item 28 from Item 29 to obtain remaining airspace in cubic yards: 1,043,301 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

3.20 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.

959 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): Myra E. Redfield

Title of Person Signing: Program Manager

Date: 6-16-2020

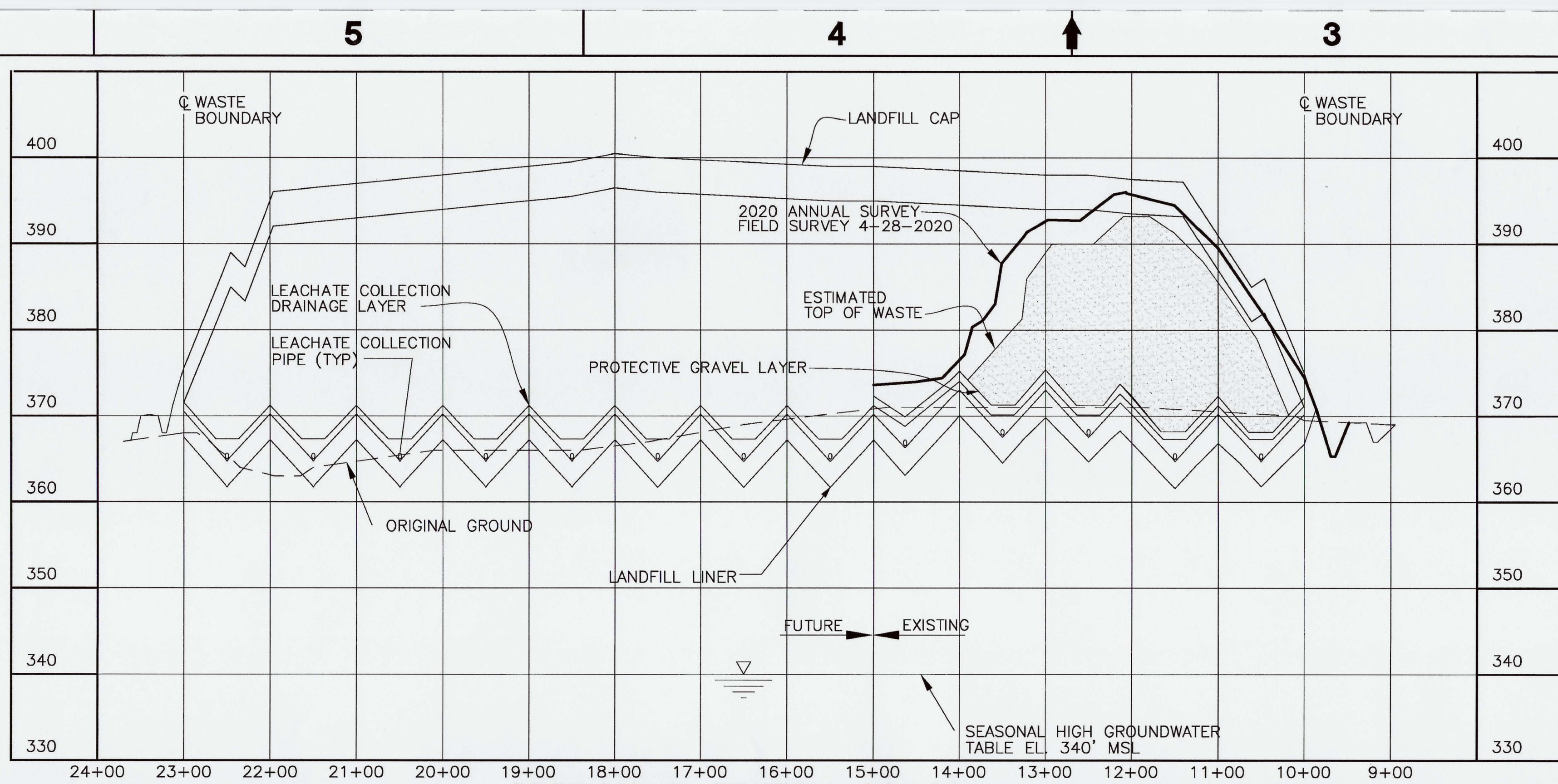
Signature per 401 KAR 47:160: *Myra E. Redfield*

Subscribed and sworn to before me this 16th day of June, Year 20 20

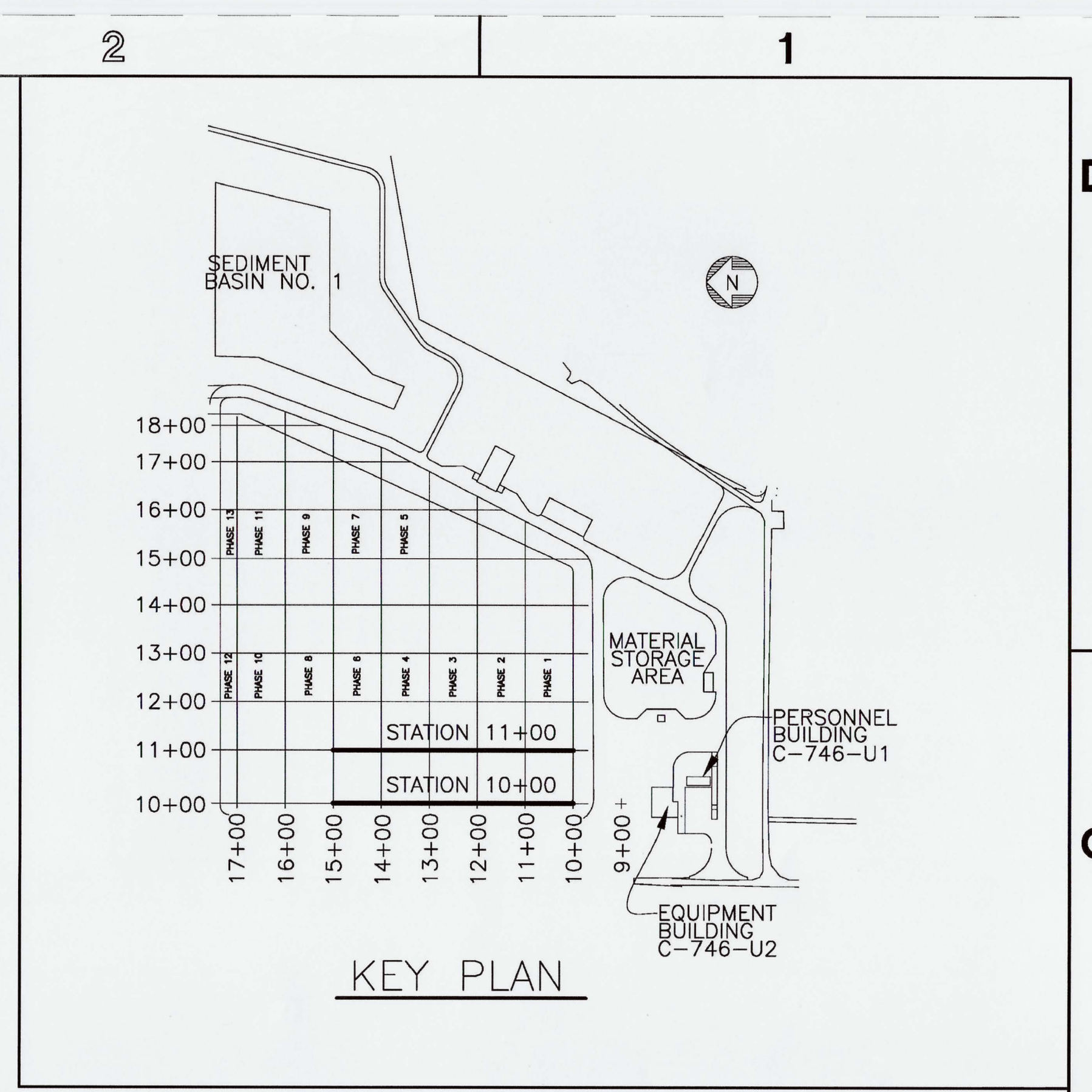
Notary Public Signature: *Darla Bowen #609500*

State of KY County of STATE AT LARGE My commission expires: 10-27-2022





SECTION @ STATION 11+00
 SCALE: HORZ. 1"=100'
 VERT 1"=10'



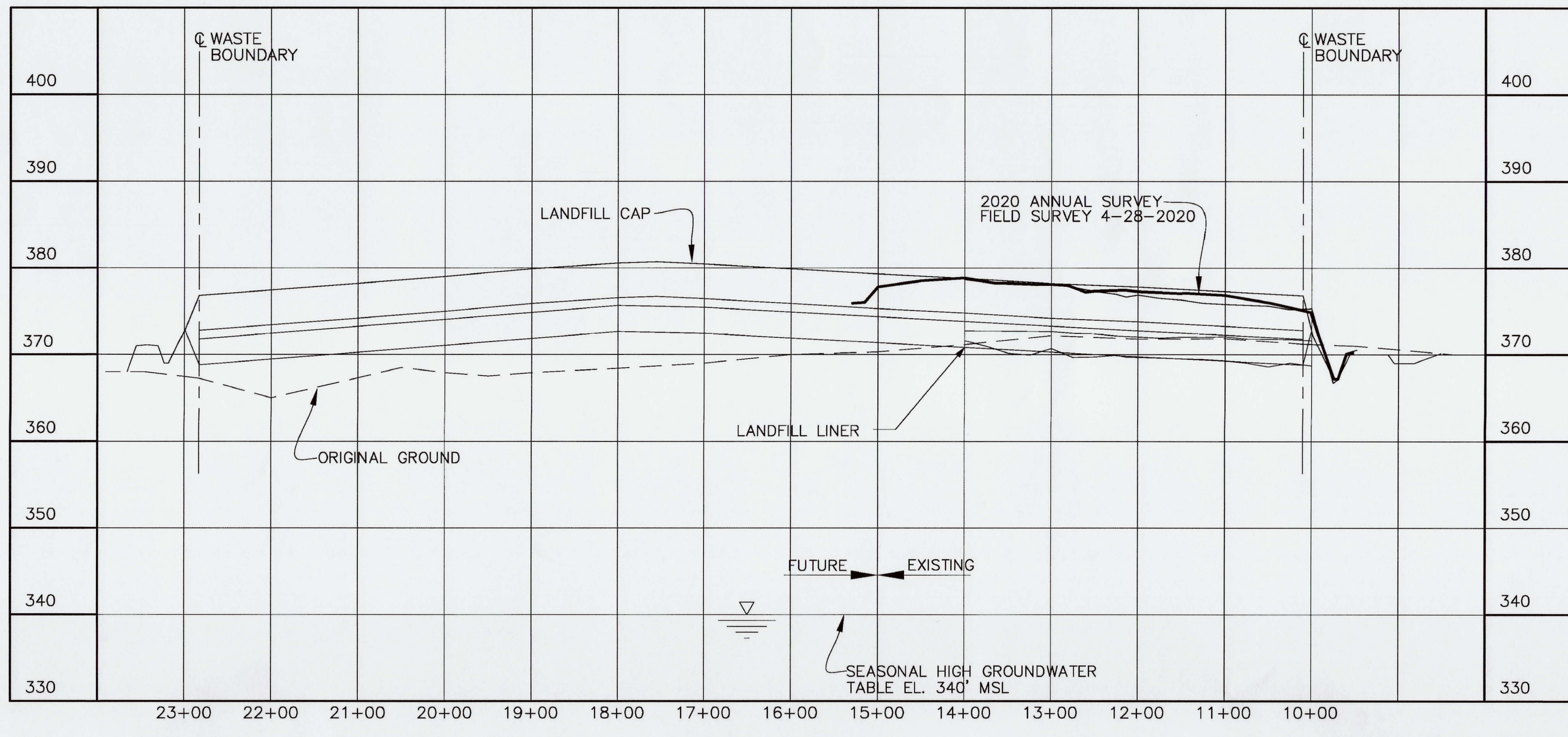
KEY PLAN

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 ENCROACHING THE FINAL CAP DESIGN ELEVATION WILL BE REMOVED PRIOR TO FINAL CAP CONSTRUCTION.

KEY:

— 2020 ANNUAL SURVEY



SECTION @ STATION 10+00 - BEGIN WASTE
 SCALE: HORZ. 1"=100'
 VERT 1"=10'
BEGIN CAP @ STA 9+88

REV	DRW	CHKR	RE	TR	APPD	DATE
15	KTW	SCT	DJH	X	DOB	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

NON ESSENTIAL

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

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

DOE CONTRACT NO. DE-EM0004895

PROJECT NAME:
 SOLID WASTE LANDFILL 2020 ANNUAL SURVEY, PGDP

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

SCALE:	DRAWING NUMBER	REV
NOTED	C7DC7460UA004	15

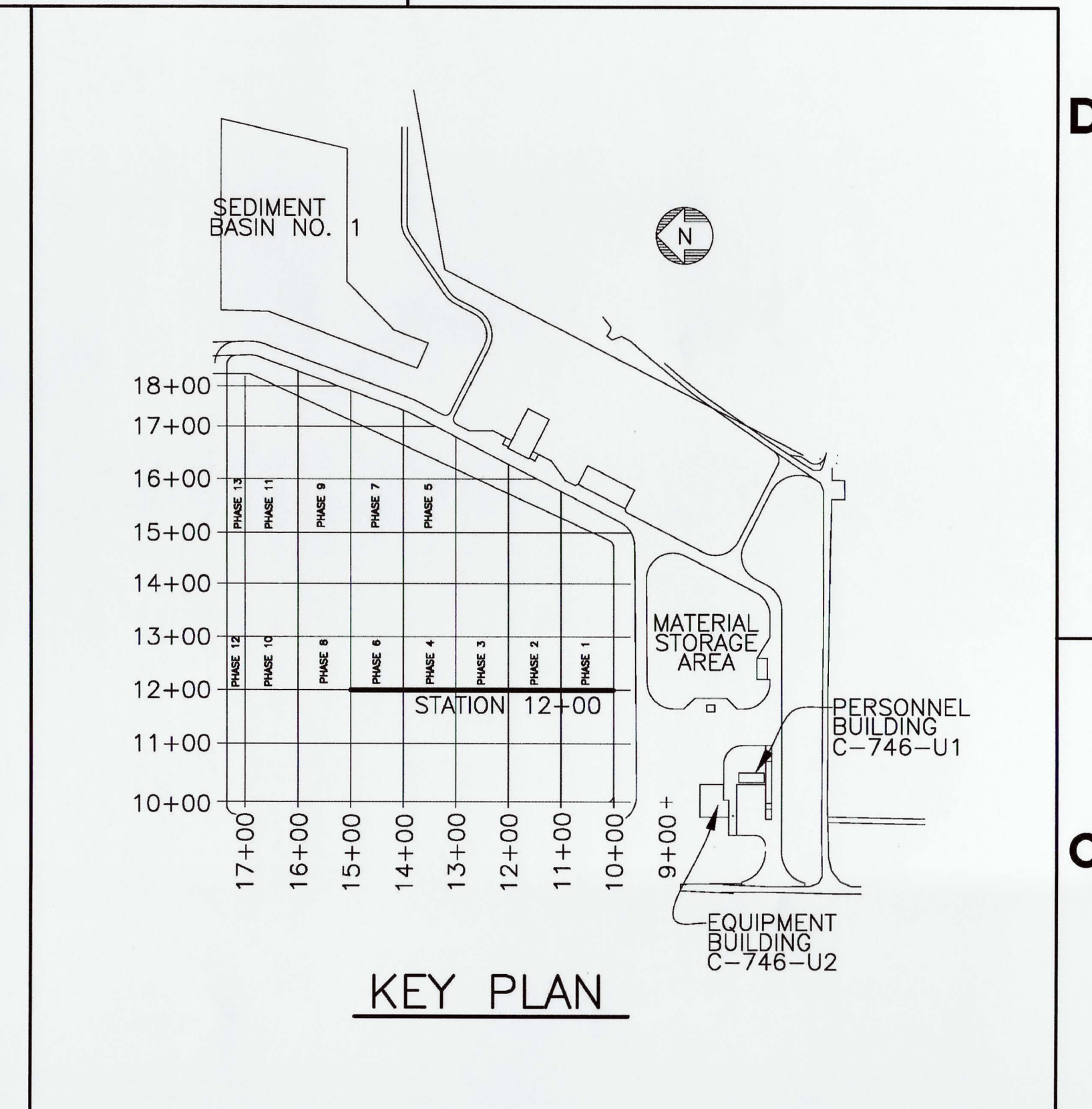
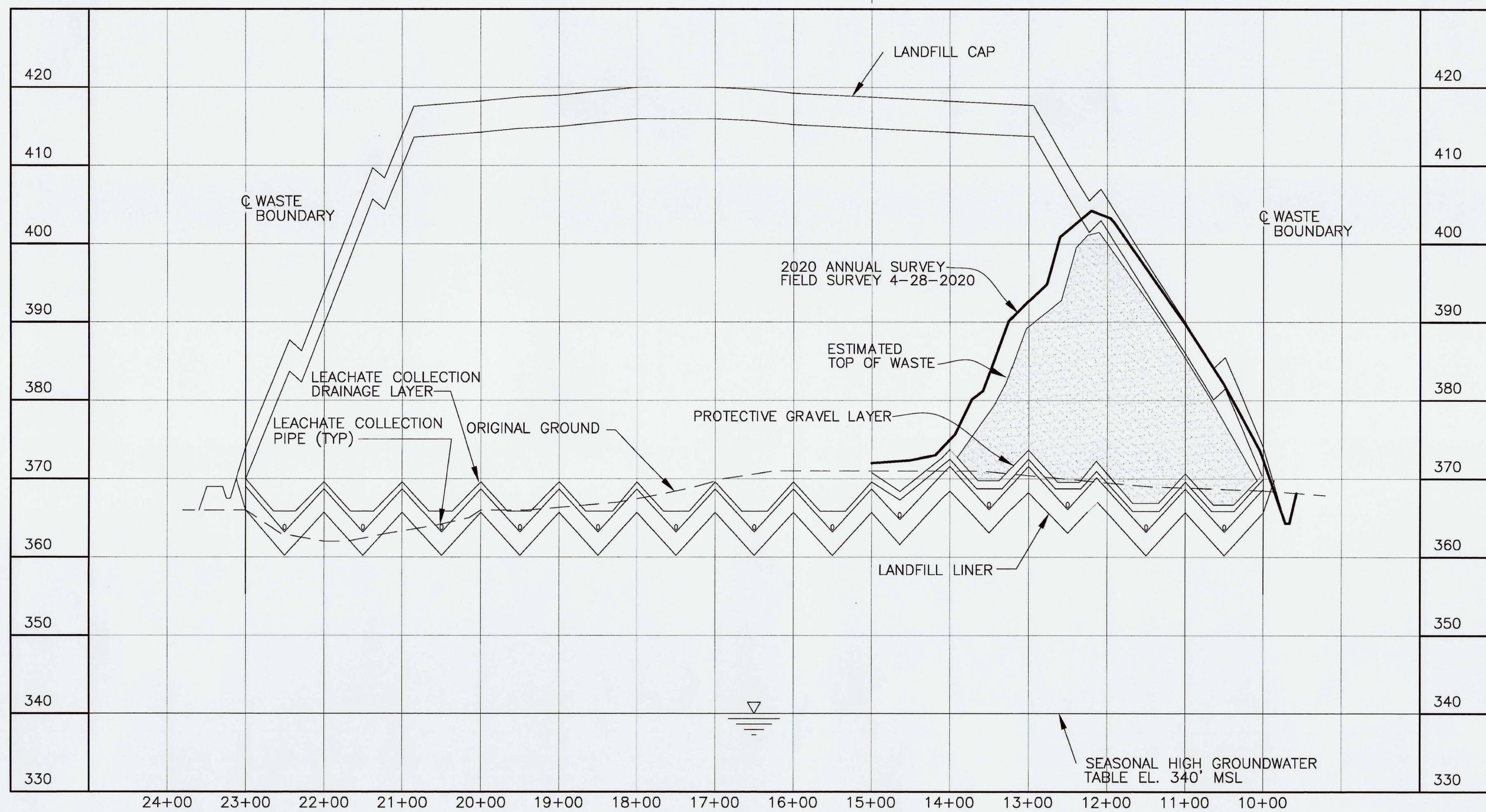
REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF CTRL./NUCL SFTY	FAC MGR	E&TS MGR	ENV COMP
13	X	AS-BUILT ENTIRE DRAWING FOR 2020 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
14	X	AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
13	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL 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	AS-BUILT ENTIRE DRAWING FOR 2017 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

PLS
 M. Stewart
 STATE OF KENTUCKY
 LICENSED PROFESSIONAL LAND SURVEYOR
 6/10/2020
 FOR 2020 SURVEY
 DATE
 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

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.



- NOTE:**
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KEY:

— 2020 ANNUAL SURVEY

14	KTW	SCT	DJH	X	CD	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

M. J. Stewart

STATE OF PENNSYLVANIA
MICHAEL D. STEWART
2027
LICENSED PROFESSIONAL LAND SURVEYOR

FOR 2020 SURVEY

DATE

PROFESSIONAL SEAL

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF CTRL/NUCL SFTY	FAC MGR	E&TS MGR	ENV COMP
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	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
4	4/12/11	ISSUED FOR 2011 ANNUAL SURVEY	HDH	MDS	MDS	JKT	N/A	SML	RES	DLA

DRAWING REVISIONS

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

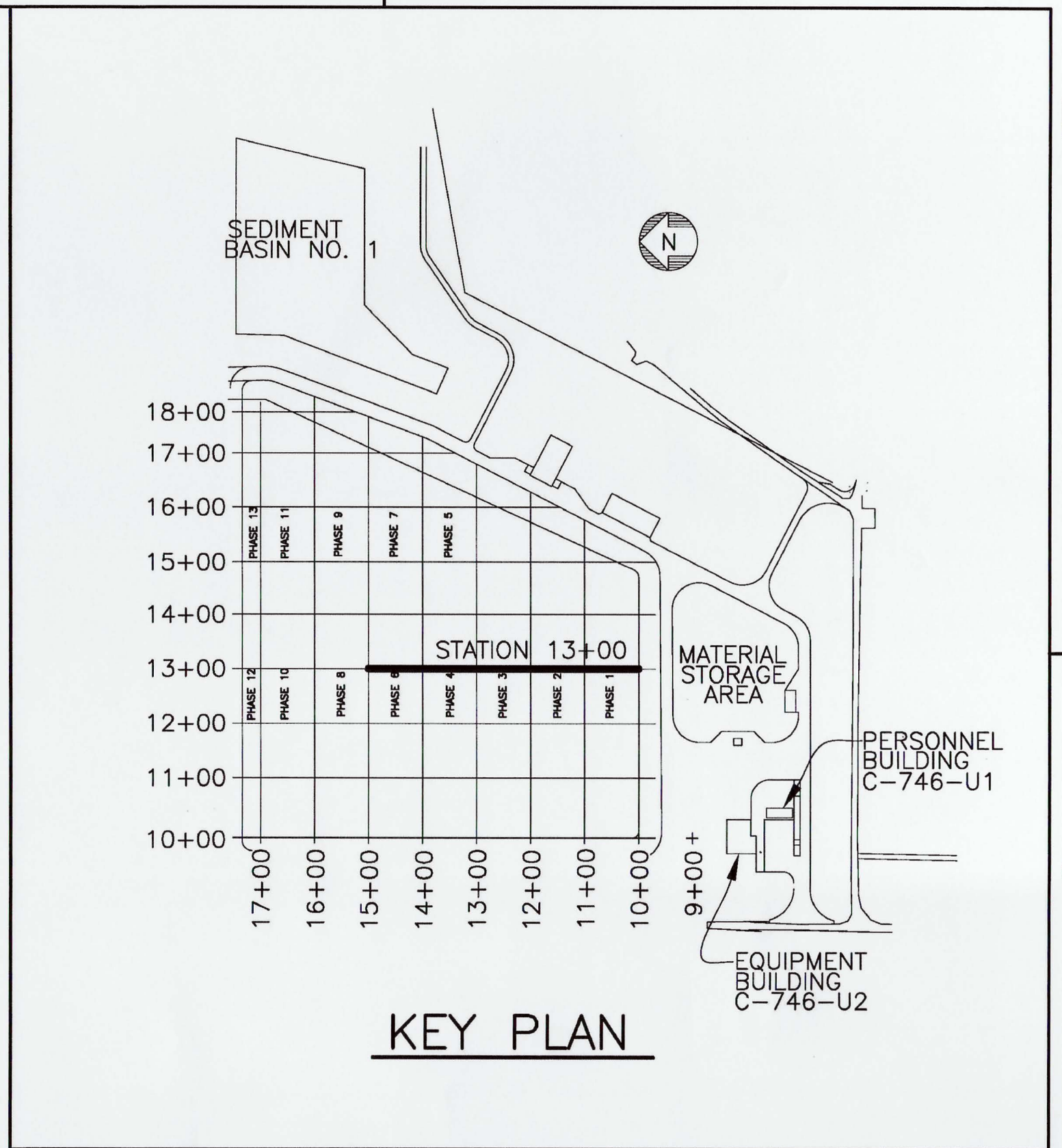
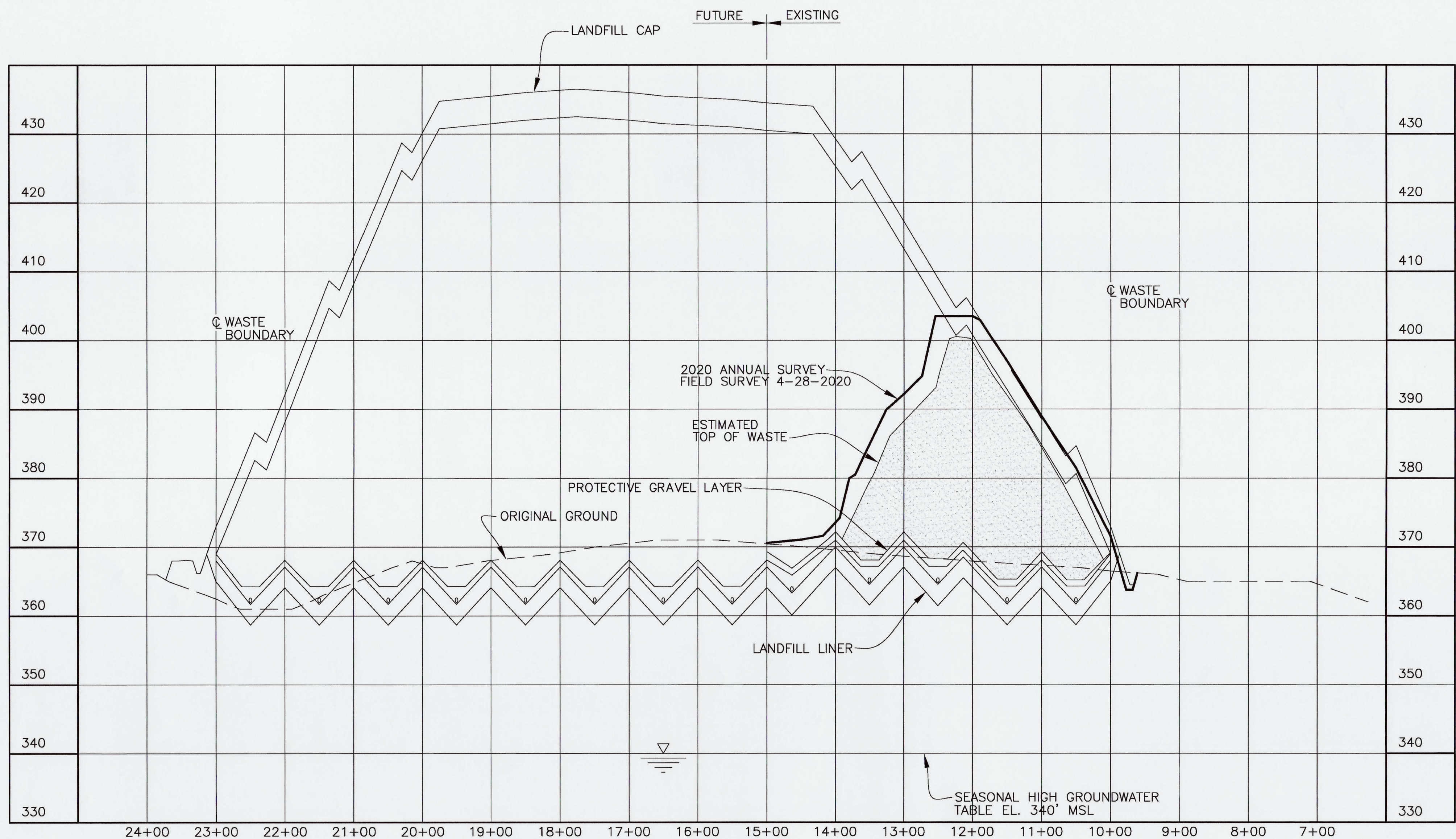
FOUR RIVERS
 NUCLEAR PARTNERSHIP, LLC
 DOE PRIME CONTRACT # DE-EM0004895

DOE CONTRACT NO. DE-EM0004895

PROJECT NAME:
 SOLID WASTE LANDFILL 2020 ANNUAL SURVEY, PGDP

TITLE:
 CROSS SECTION
 STATION 12+00

CAD FILE NAME C7DC7460UA005 rev14.dwg	BUILDING OUTSIDE	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA005		REV 14



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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.

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

KEY:
 — 2020 ANNUAL SURVEY

15	KTW	SCT	DJH	X	EDS	6/9/20
14	KTW	SCT	DJH	X	TDS	5/7/19
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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
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
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
4	4/12/11	ISSUED FOR 2011 ANNUAL SURVEY	HDH	MDS	MDS	JKT	N/A	SML	RES	DLA

PLS

FOR 2020 SURVEY

DATE

PROFESSIONAL SEAL

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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-EM0004895

DOE CONTRACT NO. DE-EM0004895

PROJECT NAME:
 SOLID WASTE LANDFILL 2020 ANNUAL SURVEY, PGDP

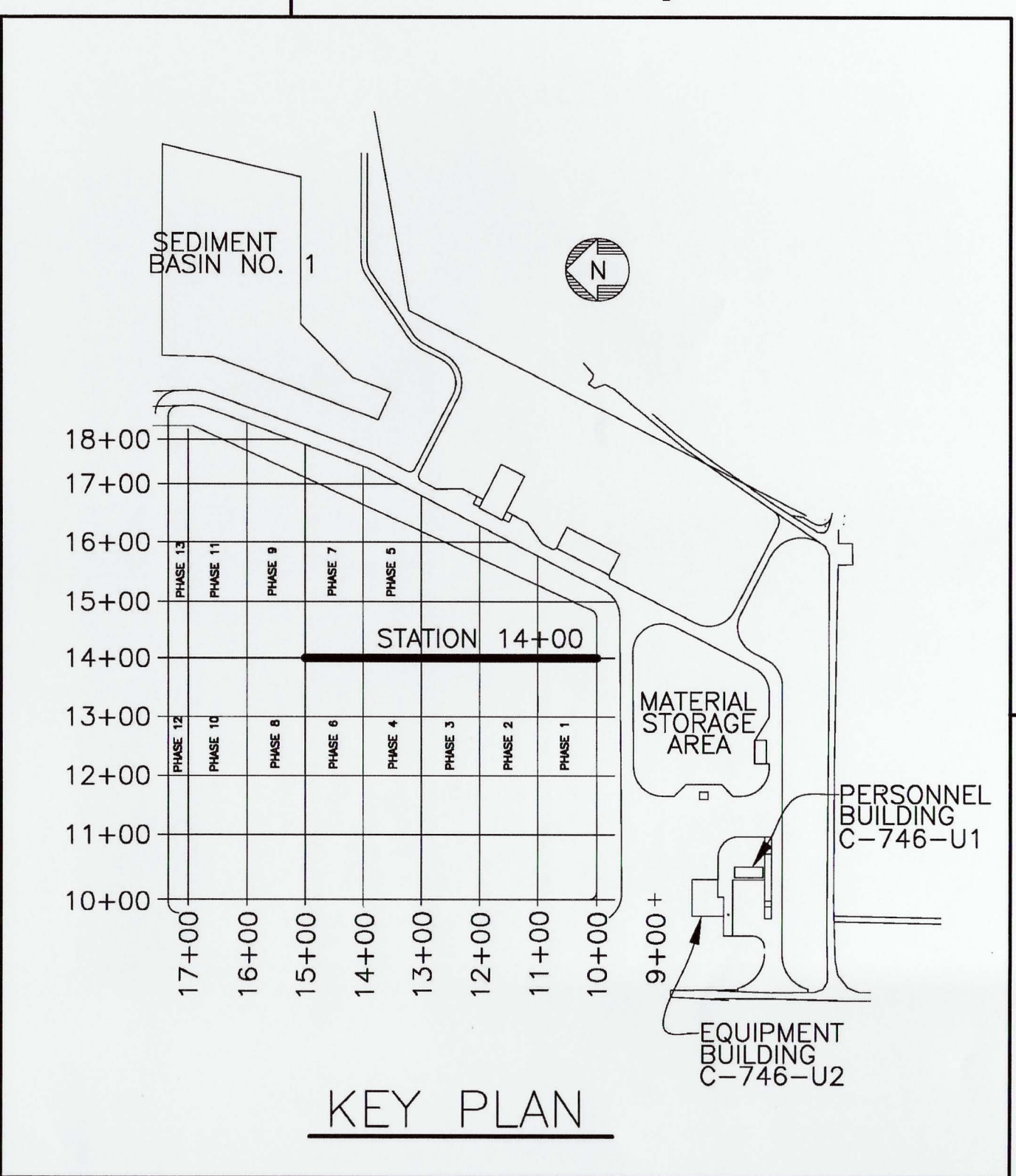
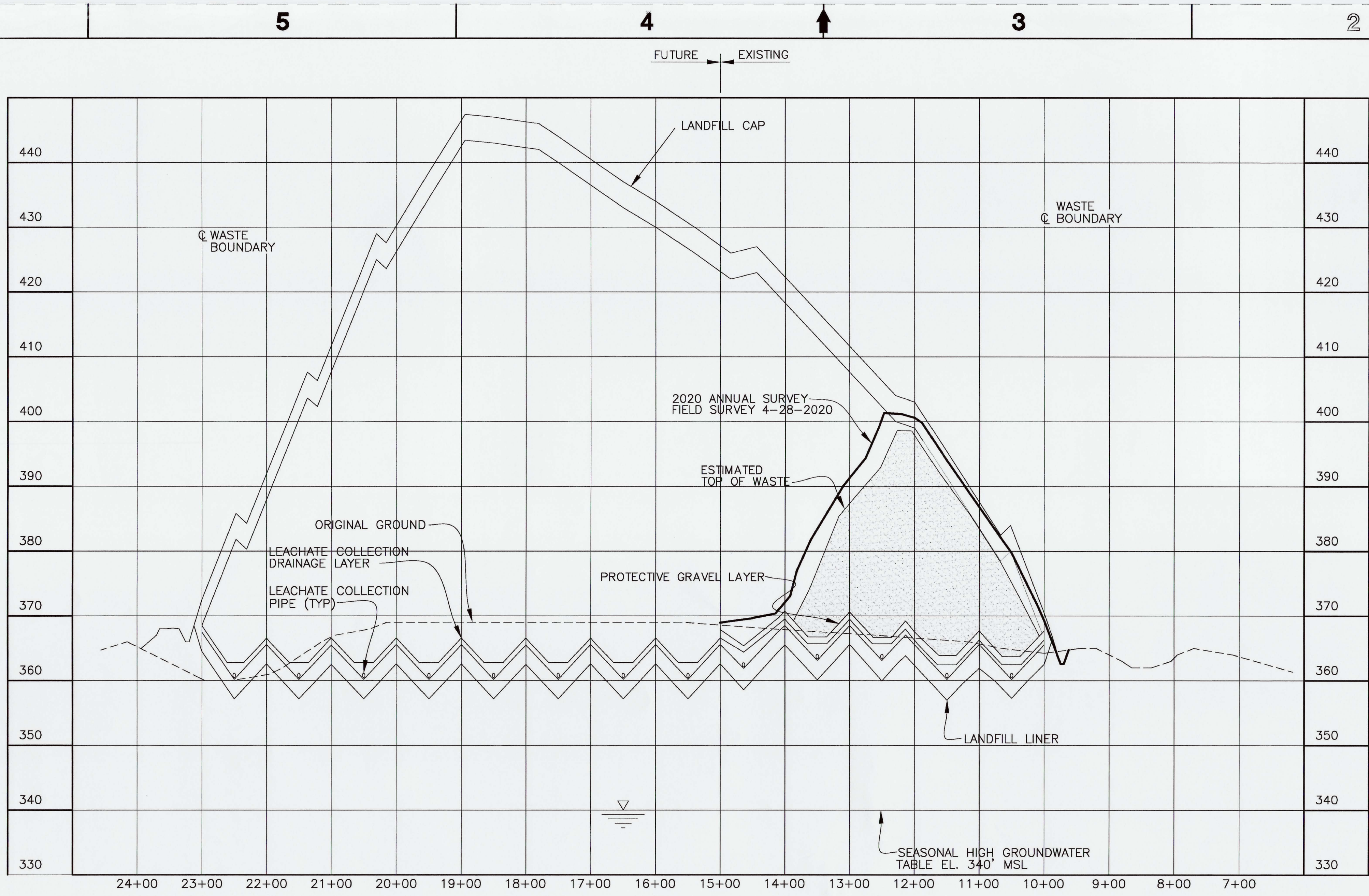
TITLE:
 CROSS SECTION
 STATION 13+00

CAD FILE NAME	BUILDING	PLANT	CLASS
C7DC7460UA006	OUTSIDE	PGDP	U

SCALE: NOTE D

DRAWING NUMBER
 C7DC7460UA006

REV 15



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.

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

KEY:
 — 2020 ANNUAL SURVEY

14	KTW	SCT	DJH	X	AS	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
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	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

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 2020 ANNUAL SURVEY, PGDP

TITLE:
CROSS SECTION STATION 14+00

CAD FILE NAME C7DC7460UA007 rev14.dwg	BUILDING OUTSIDE	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA007		REV 14

PLS

Mitchell D. Stewart

STATE OF KENTUCKY
 MITCHELL D. STEWART
 8227
 LICENSED PROFESSIONAL LAND SURVEYOR

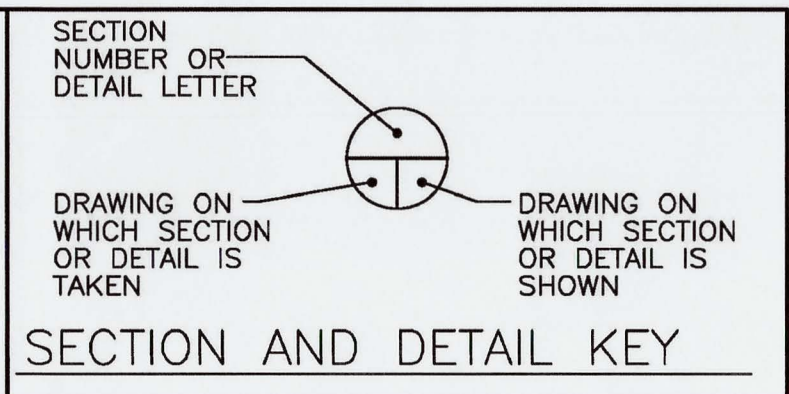
6/10/2020

FOR 2020 SURVEY

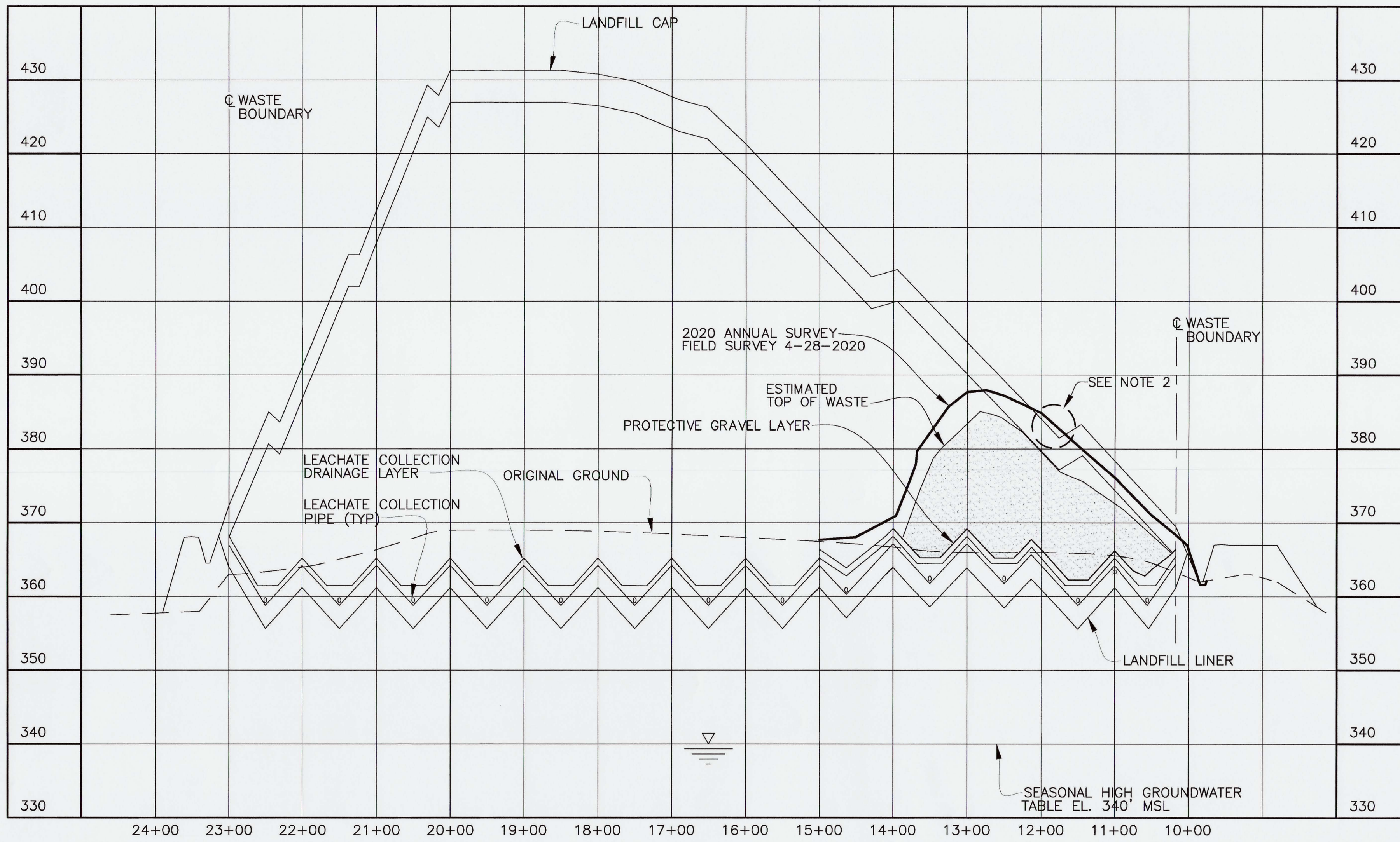
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PROFESSIONAL SEAL

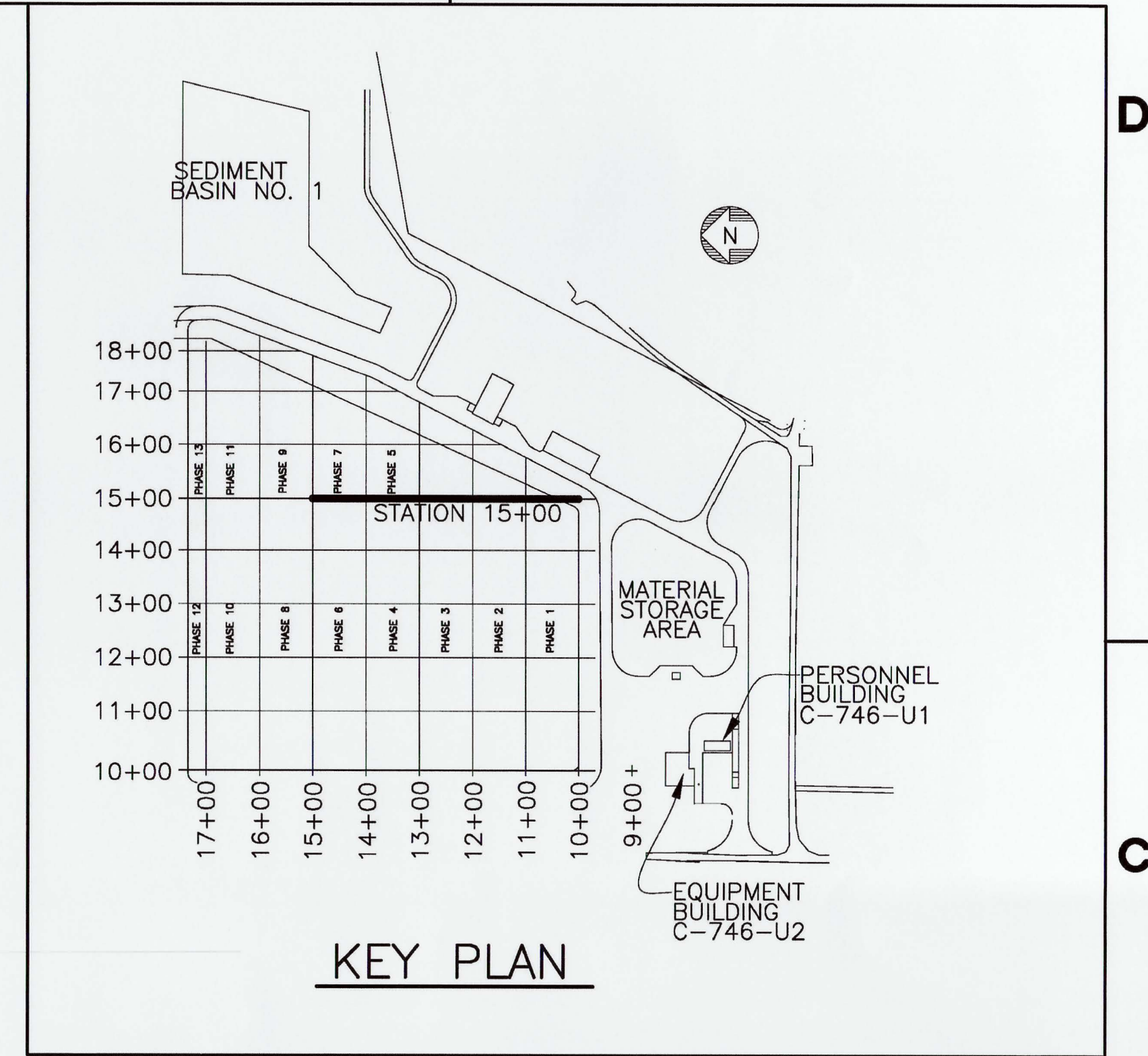
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NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS 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.



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



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 — 2020 ANNUAL SURVEY

14	KTW	SCT	DJH	X	AS	6/9/20
13	KTW	SCT	DJH	X	TDS	5/7/19
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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	DRW	DRAFT	PRGJ	LEAD	CONF	FAC	EATS	ENV
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 2017 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
10	X	AS-BUILT ENTIRE DRAWING FOR 2016 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
4	4/12/11	ISSUED FOR 2011 ANNUAL SURVEY	HDH	MDS	MDS	JKT	N/A	SML	RES	DLA

PLS

Mitchell D. Stewart

STATE OF KENTUCKY
 MITCHELL D. STEWART
 2287
 LICENSED PROFESSIONAL LAND SURVEYOR
 6/10/2020

FOR 2020 SURVEY

DATE

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SECTION AND DETAIL KEY

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

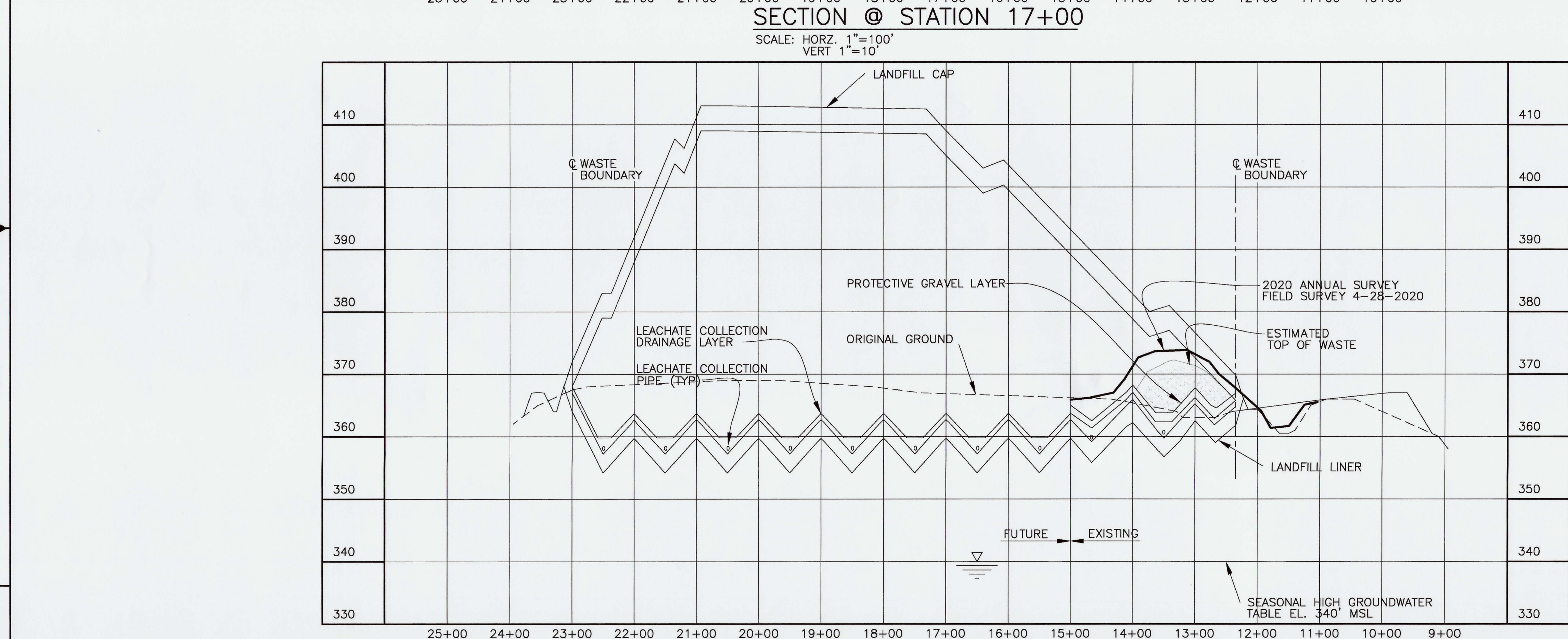
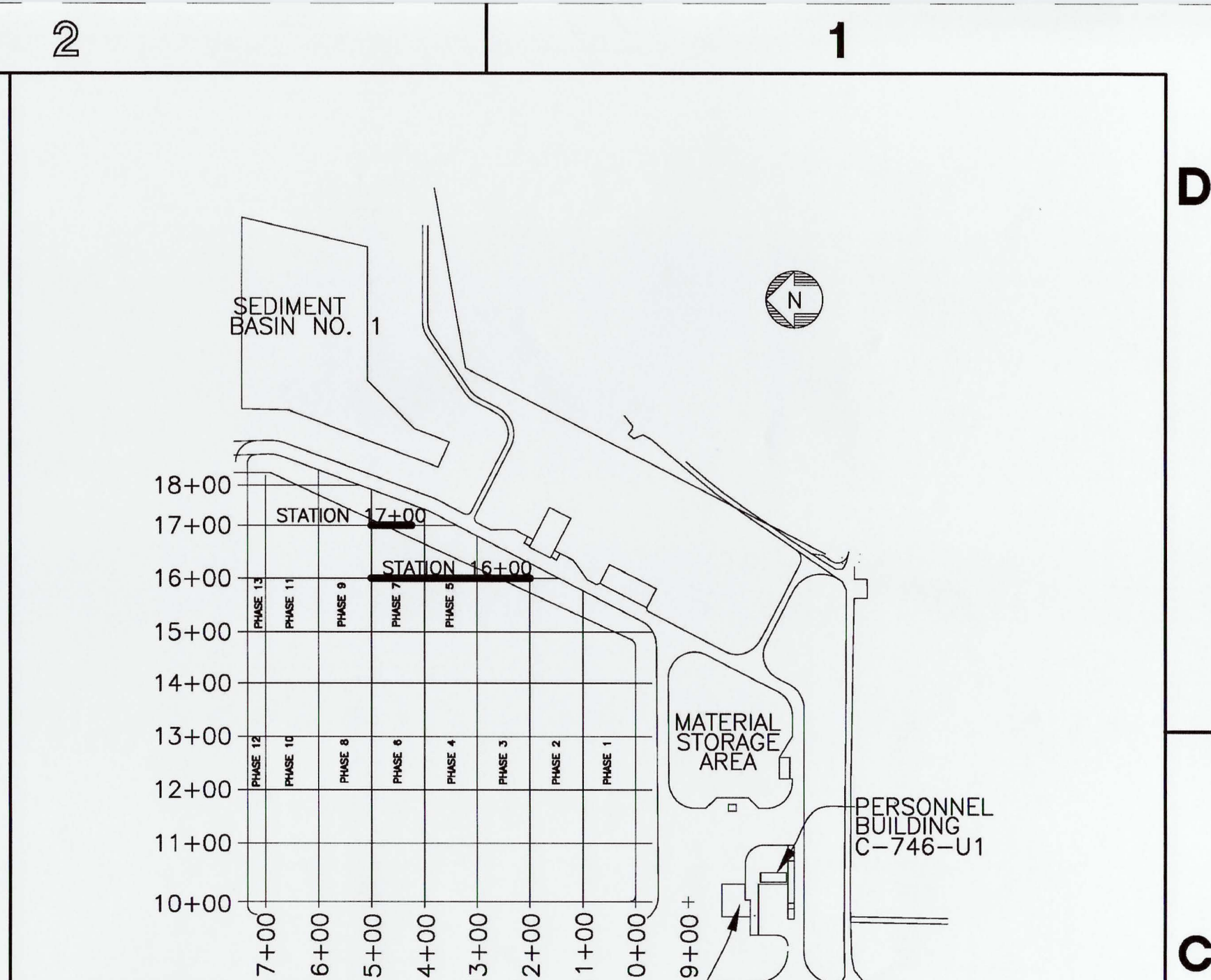
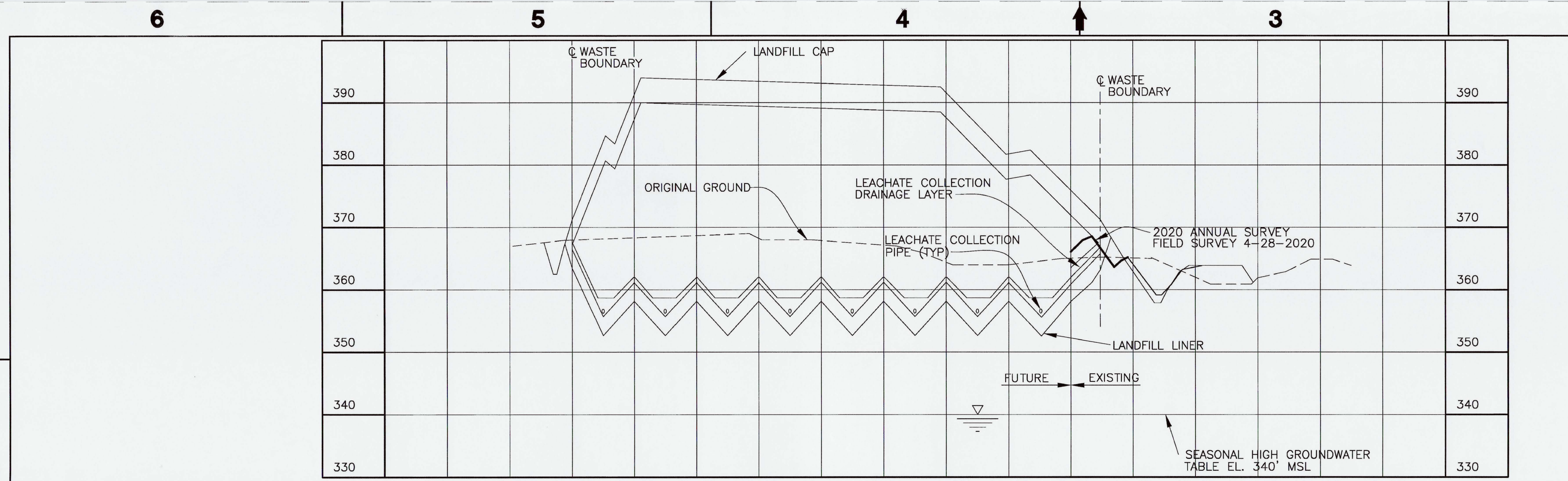
FOUR RIVERS
 NUCLEAR PARTNERSHIP, LLC
 DOE PRIME CONTRACT # DE-EM0004895

DOE CONTRACT NO. DE-EM0004895

PROJECT NAME:
 SOLID WASTE LANDFILL 2020 ANNUAL SURVEY, PGDP

TITLE:
 CROSS SECTION
 STATION 15+00

CAD FILE NAME C7DC7460UA008 rev14.dwg	BUILDING OUTSIDE	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA008		REV 14



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— 2020 ANNUAL SURVEY

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REV	DRW	CHKR	RE	TR	APPD DATE

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PLS

PROFESSIONAL SEAL

DATE

FOR 2020 SURVEY

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF NUCL SFTY	CTRL/ MGR	FAC MGR	E&TS MGR	ENV COMP
13	X	AS-BUILT ENTIRE DRAWING FOR 2020 ANNUAL LANDFILL SURVEY	X	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	X
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 2018 ANNUAL LANDFILL SURVEY	X	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	
6	5/19/14	ISSUED FOR 2014 ANNUAL SURVEY	KTW	TAW	KLH	JKT	N/A	RGS	KAS	MPL	

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 2020 ANNUAL SURVEY, PGDP

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

CAD FILE NAME C7DC7460UA009 rev13.dwg	BUILDING OUTSIDE	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA009		REV 13

CERTIFICATION

Document Identification: *2020 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)

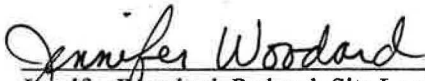


Myrna E. Redfield, Program Manager
Four Rivers Nuclear Partnership, LLC

6/16/2020
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



Jennifer Woodard, Paducah Site Lead
Portsmouth/Paducah Project Office
U.S. Department of Energy

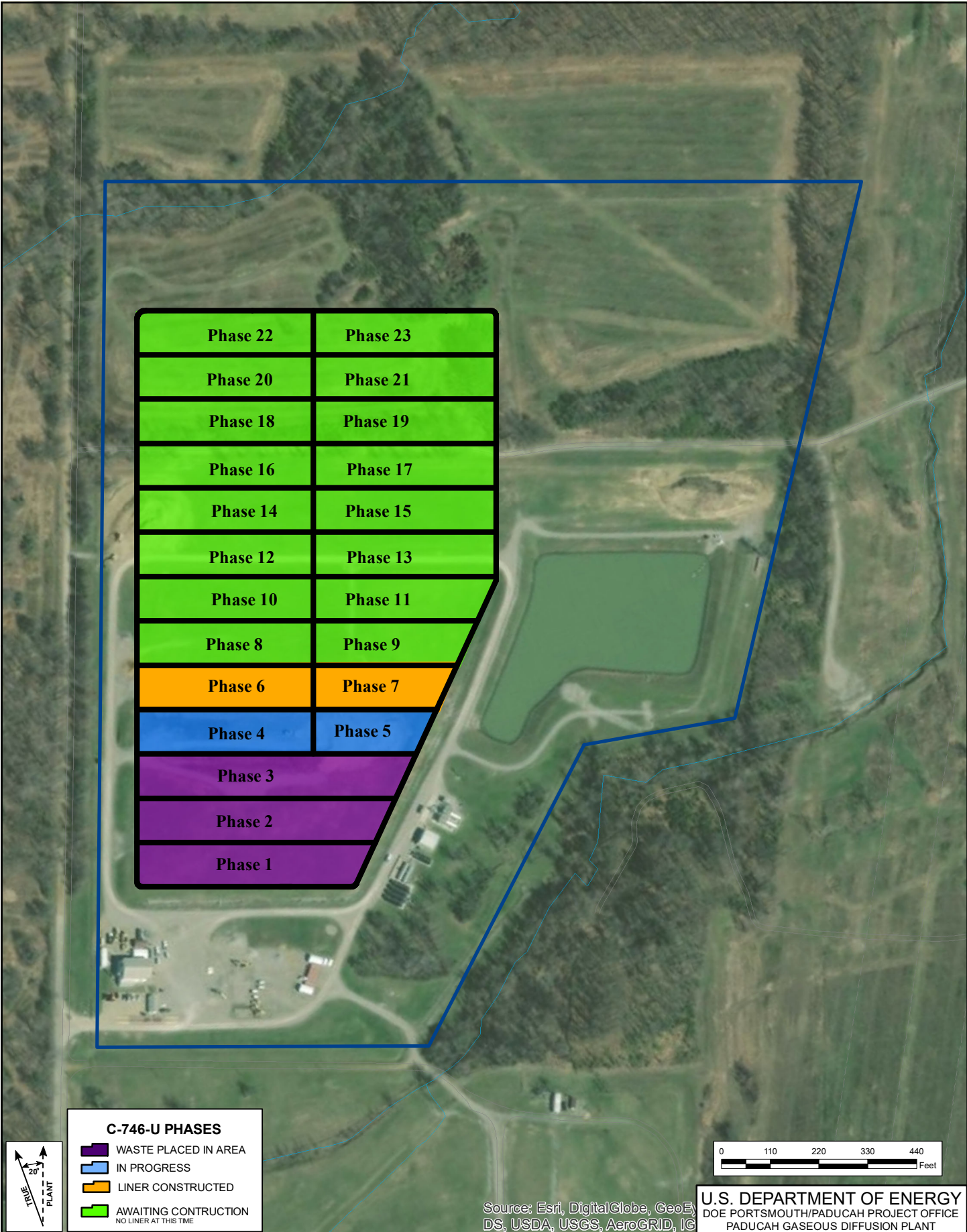
6/16/2020
Date Signed

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

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

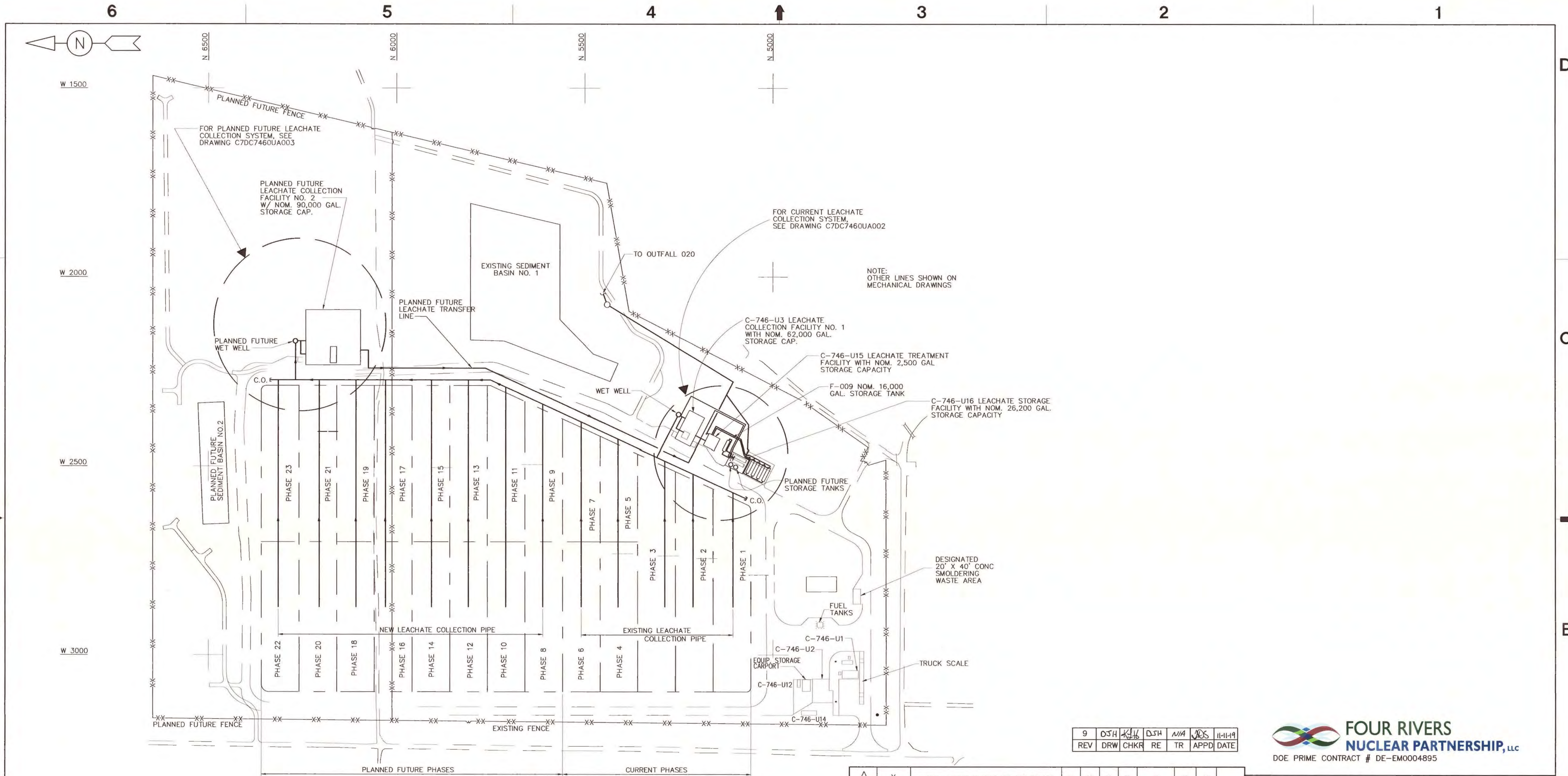
The TL stations are used herein to provide a reference to the beginning and ending locations of the exceedances shown in the cross-section drawings which are cut at each BL Station.

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

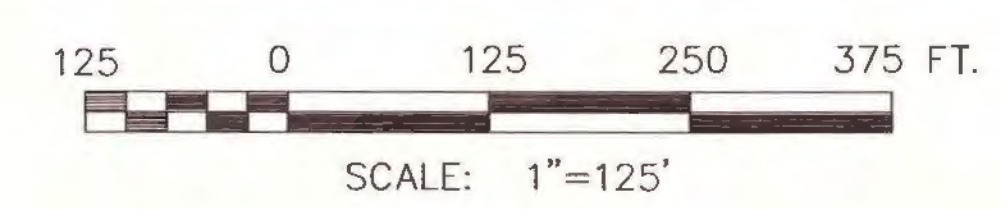


Phase 22	Phase 23
Phase 20	Phase 21
Phase 18	Phase 19
Phase 16	Phase 17
Phase 14	Phase 15
Phase 12	Phase 13
Phase 10	Phase 11
Phase 8	Phase 9
Phase 6	Phase 7
Phase 4	Phase 5
Phase 3	
Phase 2	
Phase 1	

C-746-U Landfill Phases



S I T E P L A N



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DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

LPE

11-11-2019

DATE

PROFESSIONAL SEAL

9	DJH	KLH	DJH	N/A	JES	11-11-19
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

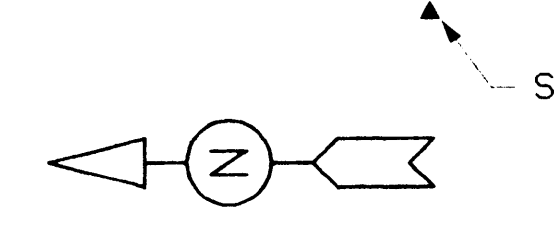
DOE CONTRACT NO. DE-AC30-10CC40020

PROJECT NAME:
WASTE DISPOSAL PROJECT

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

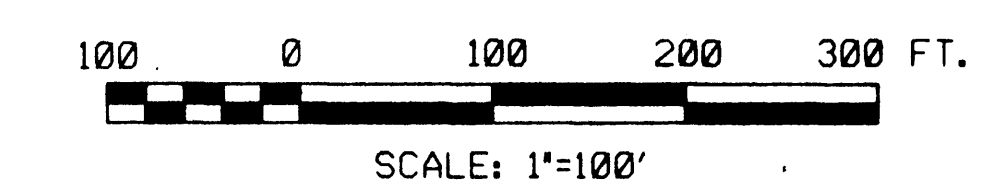
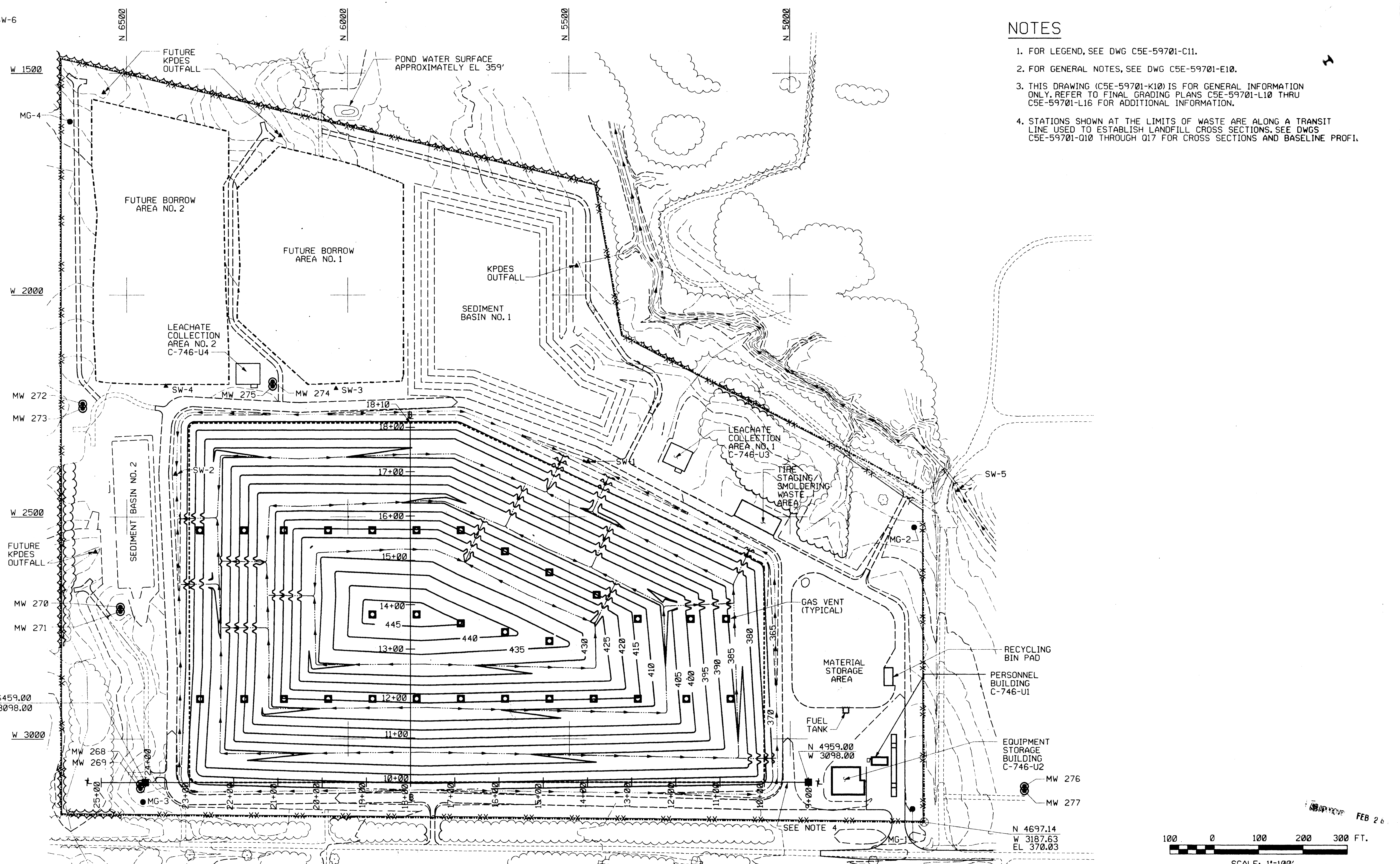
CAD FILE NAME	BUILDING	PLANT	CLASS
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SCALE:	DRAWING NUMBER	REV	
NOTED	C7DC7460UA001	9	

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ENGR	ORIG/ENGR	LEAD ENGR	QA	CONF. CTRL/NUCL. SFTY	FAC MGR	E&TS MGR	PROJ ENGR
9	X	AS-BUILT ENTIRE DRAWING FOR ESO FA523D	X	X	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	KAS	
6	5/13/14	ISSUED FOR KDWM--PERMIT MOD.	KTW	JAF	DJH	DJH	PAC	-	-	RGS	KAS	
5	1/15/13	ISSUED FOR KDWM APPROVAL	KTW	JKT	KLH	JKT	JKT	-	-	SML	KLH	
4	12/10/12	AS-BUILT - CORRECTED TANK CAPACITIES	KTW	JKT	KLH	JKT	JKT	-	-	SML	KAS	
3	1/13/10	AS-BUILT - (REV 2)	HDH	---	LF	LCF	LF	---	---	EWI	KAS	
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	



NOTES

1. FOR LEGEND, SEE DWG C5E-59701-C11.
2. FOR GENERAL NOTES, SEE DWG C5E-59701-E10.
3. THIS DRAWING (C5E-59701-K10) IS FOR GENERAL INFORMATION ONLY. REFER TO FINAL GRADING PLANS C5E-59701-L10 THRU C5E-59701-L16 FOR ADDITIONAL INFORMATION.
4. STATIONS SHOWN AT THE LIMITS OF WASTE ARE ALONG A TRANSIT LINE USED TO ESTABLISH LANDFILL CROSS SECTIONS. SEE DWGS C5E-59701-Q10 THROUGH Q17 FOR CROSS SECTIONS AND BASELINE PROFIL.



NUMBER OF SECTION OR DETAIL DRAWING ON WHICH SECTION OR DETAIL IS TAKEN SECTION AND DETAIL KEY THIS DOCUMENT CONTROLLED BY CHANGE CONTROL SYSTEM 2 ENGINEERING PROCEDURE EP-C-18	RPE DES 4/23/74 DRW J.C.W. 8/25/74 CHK [Signature] 8/17/74 SECT - DEPT [Signature] 8/21/74 PE [Signature] 8/23/74 PJ [Signature] 8/25/74 REQ [Signature] 8/26/74 A-E MMES [Signature] 8/26/74															EBASCO/PARSONS EBASCO/PARSONS - OAK RIDGE, TENNESSEE designed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-74OR21428 managed for the DEPARTMENT OF ENERGY by MARTIN MARIETTA ENERGY SYSTEMS, INC. under U.S. GOVERNMENT contracts DE-AC-75-SR021488 and DE-AC-76-78200000 Oak Ridge, Tennessee • Paducah, Kentucky • Portsmouth, Ohio PROJECT NAME: SOLID WASTE LANDFILL, PGDP GENERAL FINAL GRADING PLAN SHEET 29 OF 51									
	REVISION OR ISSUE PURPOSE REVISION APPROVALS SQUAD CHECK DRAWING APPROVALS															1 48 49 50 PLANT BLOC FL SH. OF TYPE CLASS 3 C P T PGDP AREA A 51 52 53 CC RC IN C5E-59701-K10 REV B CAD FILE: C0000833.DGN SCALE: 1"=100' JUNE 10, 1994									