



Department of Energy

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

MAY 29 2019

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-02-5578759-19B

Dear Ms. Nielsen:

**2019 ANNUAL SURVEY FOR THE PADUCAH GASEOUS DIFFUSION PLANT
C-746-U CONTAINED LANDFILL, PERMIT NUMBER 073-00045, AGENCY
INTEREST NO. 3059**

Enclosed is the Paducah Gaseous Diffusion Plant 2019 Solid Waste Landfill Annual Survey Form, DEP 8059 (6/10), to the Kentucky Division of Waste Management along with associated cross section drawings, as required by 401 KAR 47:190 § 8(2).

Four Rivers Nuclear Partnership, LLC completed field work on April 16, 2019.

To assist in the review, previously submitted figures, C-746-U Landfill Phases R1, Drawing C7DC746UA001 R9, and Drawing C5E-59701-K10, RB, are included.

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

Sincerely,

A handwritten signature in black ink that reads "Jennifer Woodard".

Jennifer Woodard
Paducah Site Lead
Portsmouth/Paducah Project Office

Enclosures:

1. Certification Page
2. C-746-U Landfill 2019 Annual Landfill Survey Drawings
3. 2019 Annual Survey Form DEP 8059 (6/10)
4. C-746-U Landfill Phases R1
5. Drawing C7DC746UA001 R9
6. Drawing C5E-59701-K10, RB

e-copy w/enclosures:

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ENCLOSURE 1

CERTIFICATION

Document Identification: 2019 Annual Survey for the Paducah Gaseous Diffusion Plant
C-746-U Contained Landfill, Permit Number 073-00045, Agency
Interest No. 3059, dated May 2019

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



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



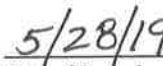
Date Signed

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

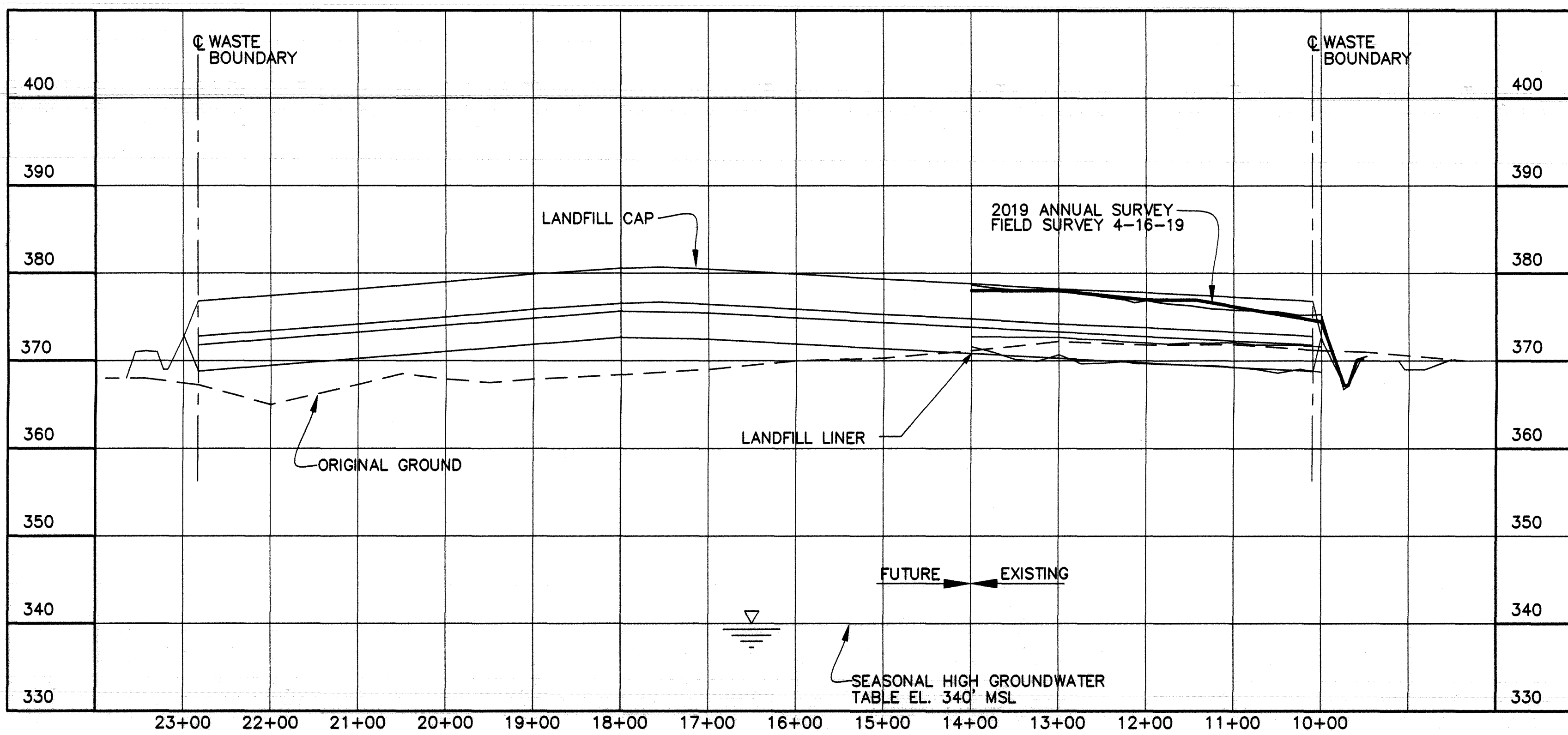
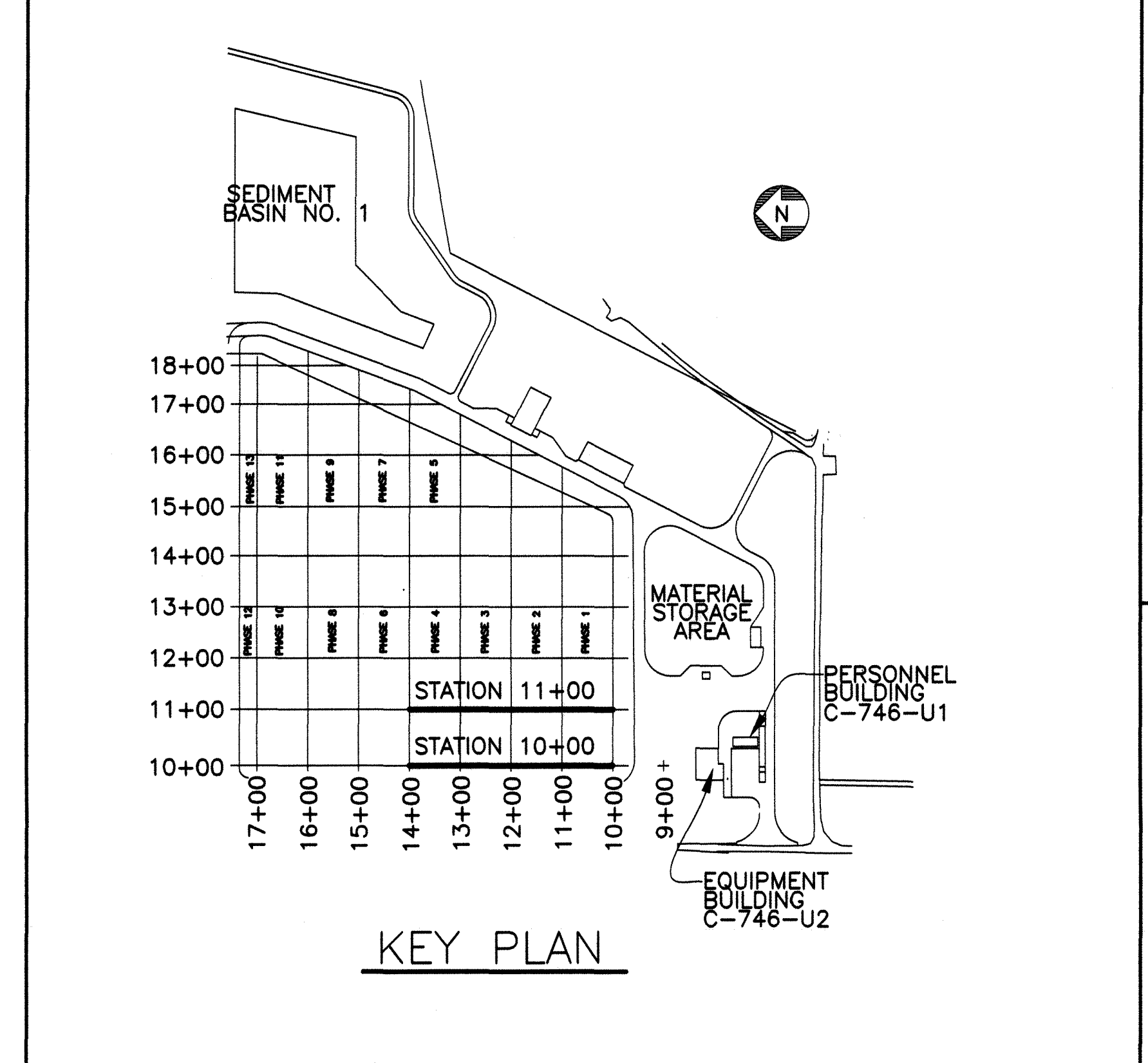
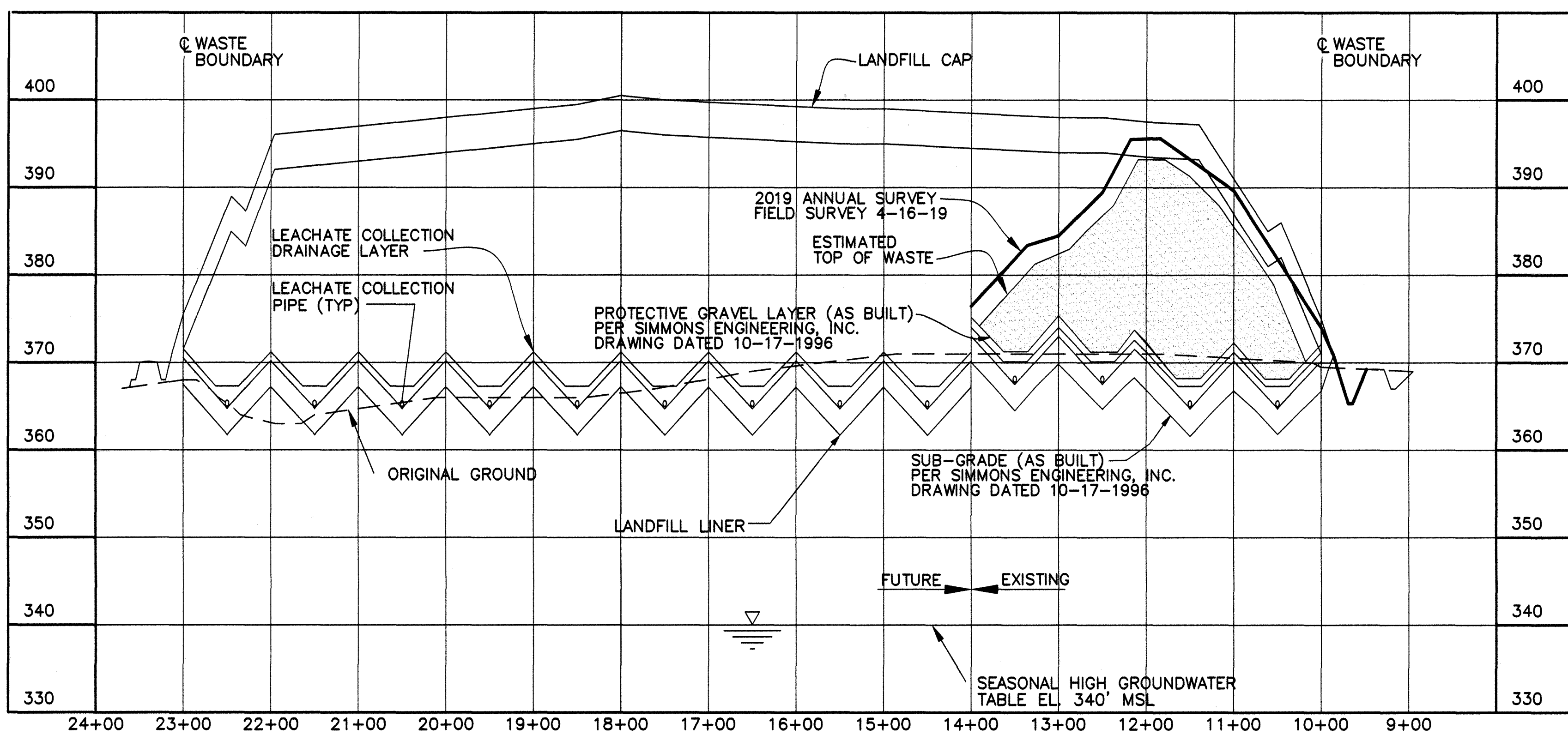


Jennifer Woodard, Paducah Site Lead
Portsmouth/Paducah Project Office
U.S. Department of Energy



Date Signed

ENCLOSURE 2



- 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.
 - NO WASTE ADDED TO SECTION AT STATION 10+00 OR 11+00 PER 2019 ANNUAL SURVEY

KEY:
— 2019 ANNUAL SURVEY

REV	DRW	CHKR	RE	TR	APPD	DATE
14	KTW	SCT	DJH	X	JOS	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

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

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

BEGIN CAP @ STA 9+88

PLS

STATE OF KENTUCKY
MITCHELL D. STERNART
LICENSED PROFESSIONAL LAND SURVEYOR
4/23/19

FOR 2019 SURVEY

DATE
PROFESSIONAL SEAL

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF CTRL/NUCL SFTY	FAC MGR	EMTS MGR	ENV COMP
X		AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
X		AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
X		AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
X		AS-BUILT ENTIRE DRAWING FOR 2017 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
X		AS-BUILT ENTIRE DRAWING FOR 2017 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
X	4/19/16	AS-BUILT ENTIRE DRAWING FOR 2016 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X

PROJECT NAME:
SOLID WASTE LANDFILL 2019 ANNUAL SURVEY, PGDP

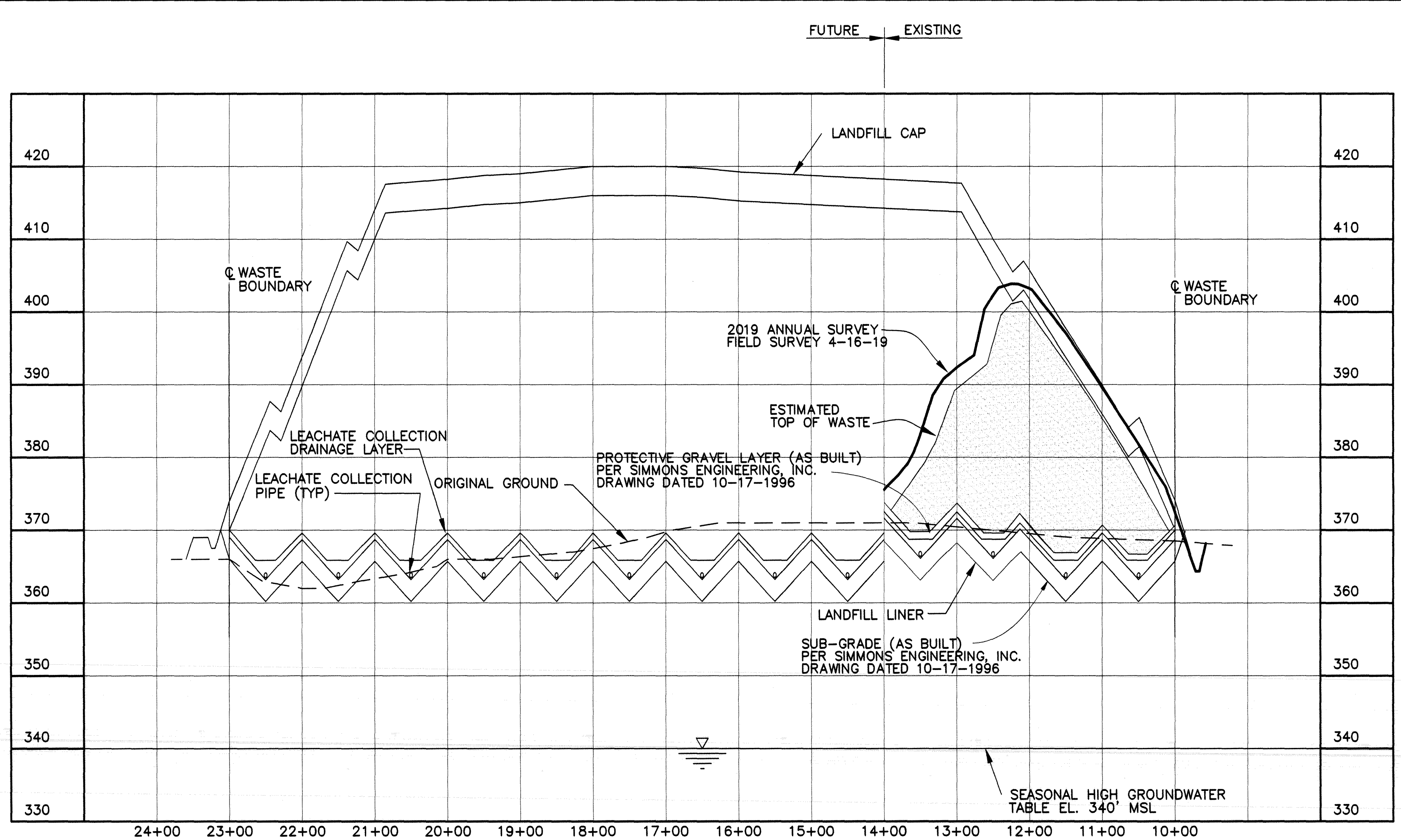
TITLE:
CROSS SECTIONS
STATION 10+00
STATION 11+00

CAD FILE NAME C7DC7460UA004 rev14.dwg	BUILDING OUTSIDE	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA004		REV 14

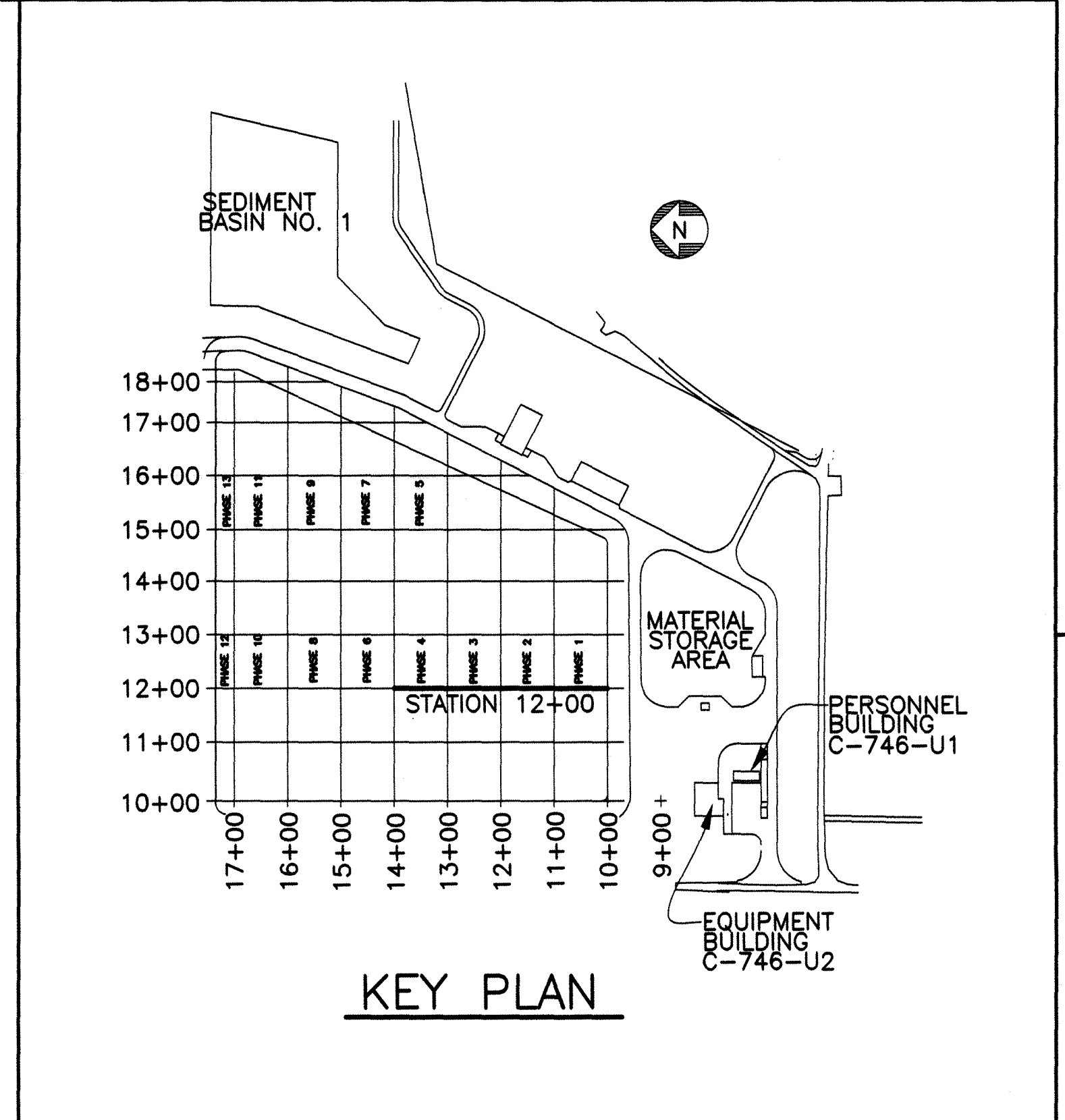
NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY, COMPLETENESS OR USEFULNESS OF THE INFORMATION OR STATEMENTS CONTAINED IN THESE DRAWINGS, OR THAT THE USE OR DISCLOSURE OF ANY INFORMATION, APPARATUS, METHOD, OR PROCESS DISCLOSED IN THESE DRAWINGS MAY NOT INFRINGE PRIVATE 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 BIDDERS ARE TO BE USED FOR OTHER PURPOSES AND ARE TO BE RETURNED UPON REQUEST OF THE FORWARDING CONTRACTOR.

SECTION AND DETAIL KEY

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.



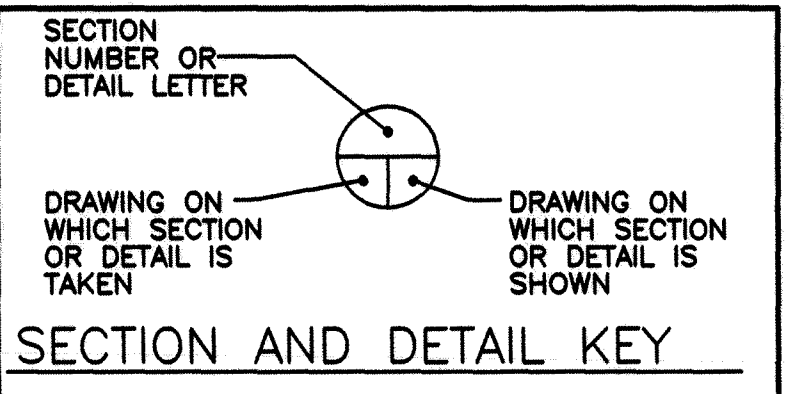
SECTION @ STATION 12+00
 SCALE: HORZ. 1"=100'
 VERT 1"=10'



- 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.
 - WASTE WAS ADDED TO SECTION AT STATION 12+00 PER 2019 ANNUAL SURVEY

KEY:
 — 2019 ANNUAL SURVEY

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.



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PLS

FOR 2019 SURVEY

DATE

PROFESSIONAL SEAL

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ENGR	PROJ ENGR	LEAD ENGR	CONF ENGR	CTRL/NUCL SFTY	FAC MGR	EATS MGR	ENV COMP
13	X	AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	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	X
11	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	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	X
9	X	AS-BUILT ENTIRE DRAWING FOR 2016 ANNUAL LANDFILL SURVEY	X	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	3/20/13	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												
3	4/14/10	ISSUED FOR 2010 ANNUAL SURVEY	HDH	MDS	PAC	MDS	PAC	N/A	N/A	EVI	KAS	
2	3/27/09	ISSUED FOR 2009 ANNUAL SURVEY	ST	MDS	JKT	MDS	JKT	LV	N/A	PC	LF	
1	5/12/08	ISSUED FOR 2008 ANNUAL SURVEY										
0	5/31/07	ISSUED FOR 2007 ANNUAL SURVEY										

REV	DRW	CHKR	RE	TR	APPD	DATE
13	KTW	act	DJH	X	JOS	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

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

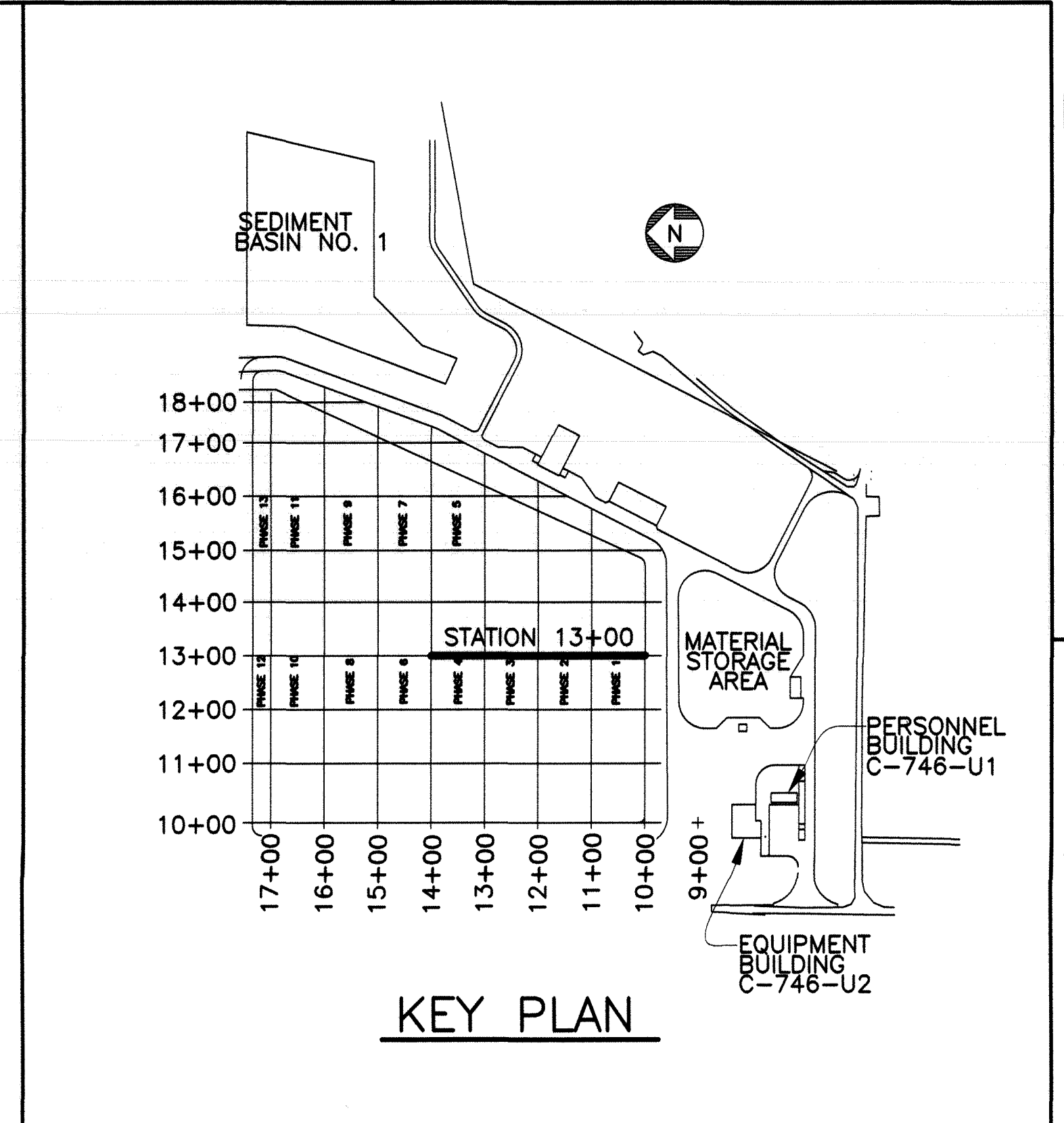
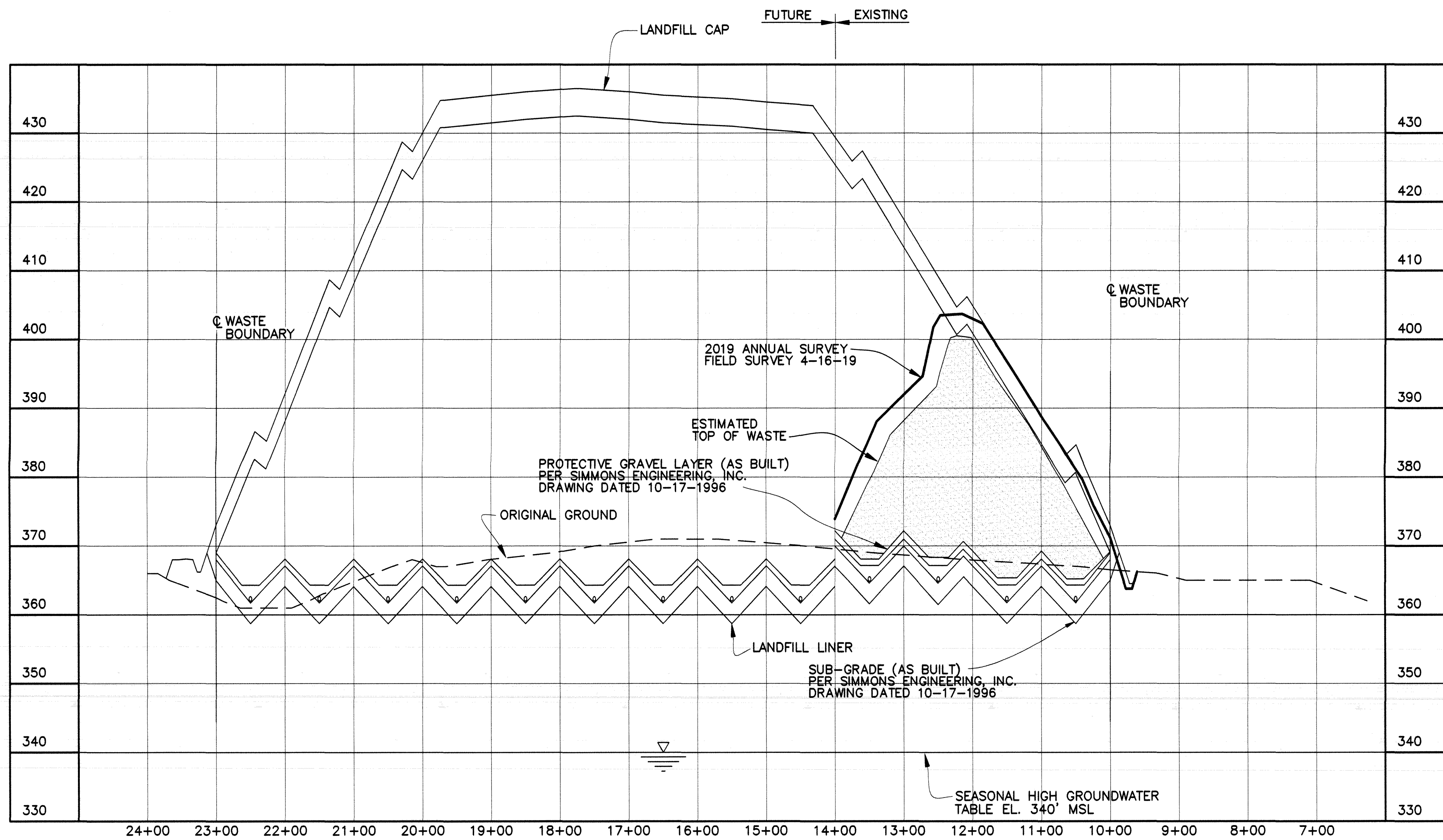
FOUR RIVERS NUCLEAR PARTNERSHIP, LLC
 DOE PRIME CONTRACT # DE-EM0004895

DOE CONTRACT NO. DE-EM0004895

PROJECT NAME:
SOLID WASTE LANDFILL 2019 ANNUAL SURVEY, PGDP

TITLE:
CROSS SECTION STATION 12+00

CAD FILE NAME C7DC7460UA005 rev13.dwg	BUILDING OUTSIDE	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA005		REV 13



- NOTE:**
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 - 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.
 - WASTE WAS ADDED TO SECTION AT STATION 13+00 PER 2019 ANNUAL SURVEY

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

KEY:
— 2019 ANNUAL SURVEY

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ENGR CHK	DRG/ENGR	LEAD ENGR	QA	CONF/CTRL/NUCL SFTY	FAC MGR	E&T MGR	ENV COMP
14	X	AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	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	X
12	X	AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	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	X	X
10	X	AS-BUILT ENTIRE DRAWING FOR 2017 ANNUAL LANDFILL SURVEY	X	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	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												
3	4/14/10	ISSUED FOR 2010 ANNUAL SURVEY	HDH	MDS	PAC	MDS	PAC	N/A	N/A	EWI	KAS	
2	3/27/09	ISSUED FOR 2009 ANNUAL SURVEY	ST	MDS	JKT	MDS	JKT	LV	N/A	PC	LF	
1	5/12/08	ISSUED FOR 2008 ANNUAL SURVEY										
0	5/31/07	ISSUED FOR 2007 ANNUAL SURVEY										

REV	DRW	CHKR	RE	TR	APPD	DATE
14	KTW	ST	DTH	X	JRS	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
9	KTW	SCT	MDS	X	KAS	4/19/16

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 2019 ANNUAL SURVEY, PGDP

TITLE:
CROSS SECTION
STATION 13+00

CAD FILE NAME: C7DC7460UA006 rev14.dwg
BUILDING OUTSIDE
PLANT PGDP
CLASS U

SCALE: NOTED
DRAWING NUMBER: C7DC7460UA006
REV: 14

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 AND DETAIL KEY

SECTION NUMBER OR DETAIL LETTER

DRAWING ON WHICH SECTION OR DETAIL IS TAKEN

DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

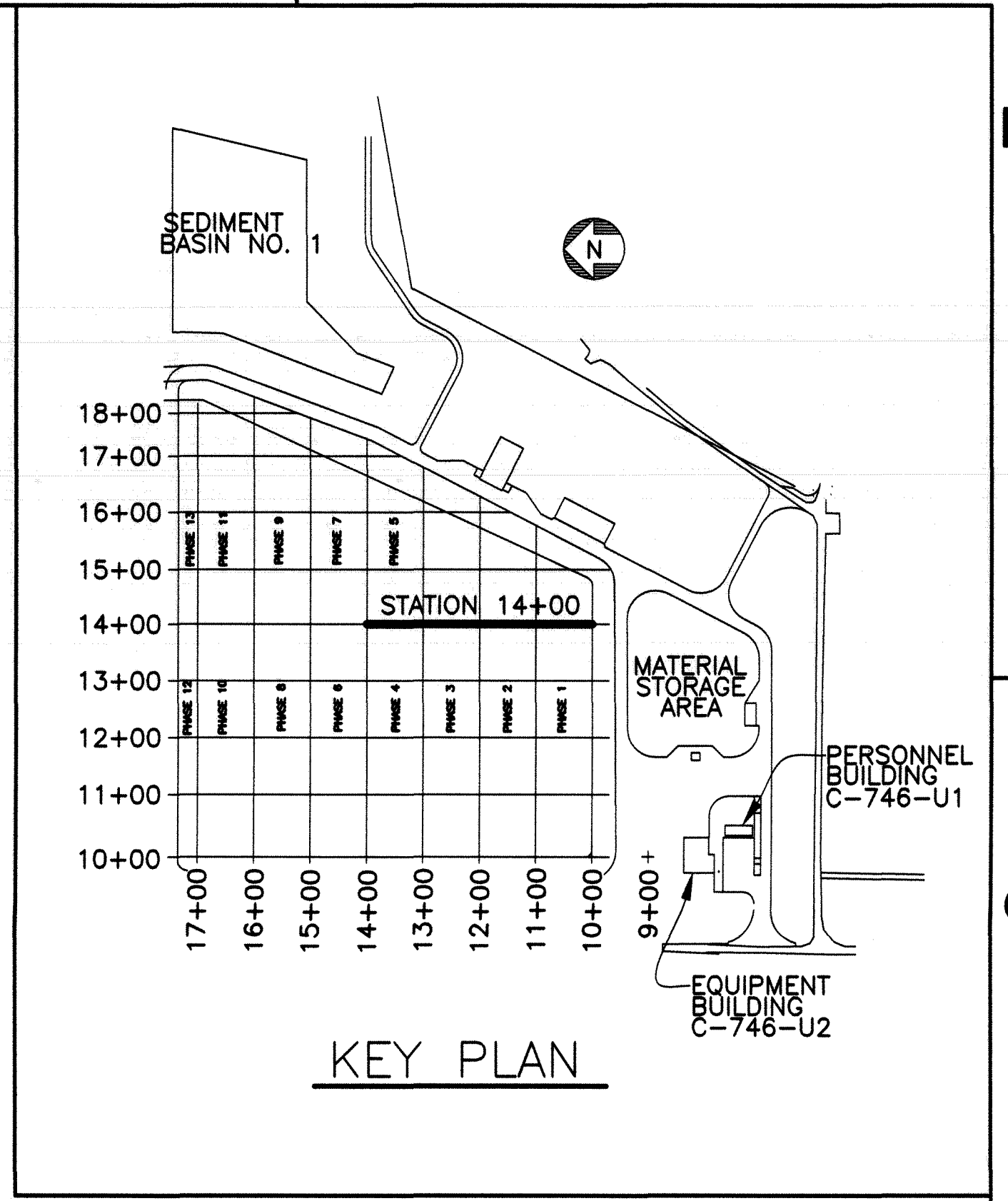
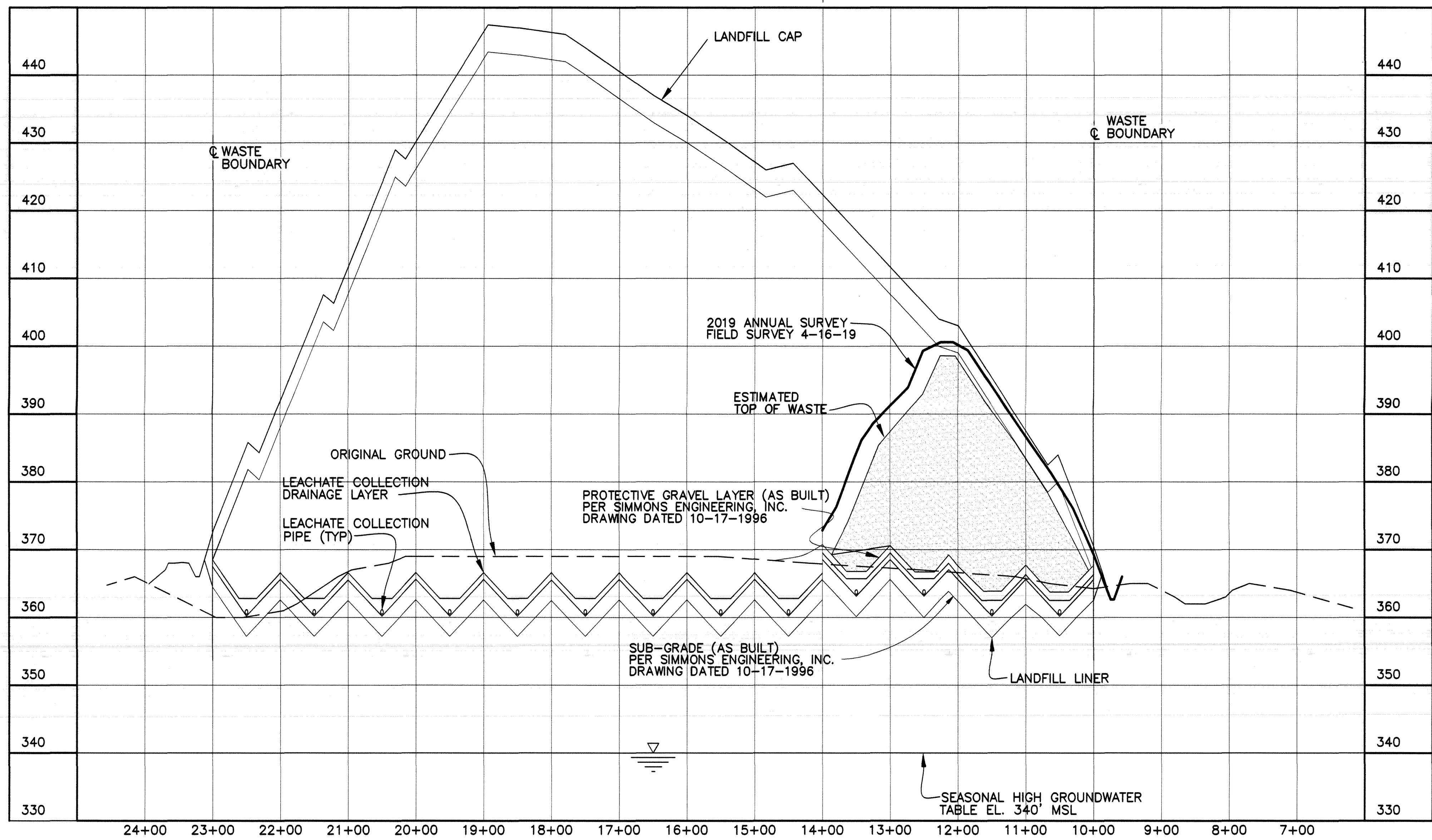
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PLS

STATE OF KENTUCKY
MITCHELL D. STEWART
LICENSED PROFESSIONAL LAND SURVEYOR
4/23/19

FOR 2019 SURVEY

DATE
PROFESSIONAL SEAL



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 - WASTE WAS ADDED TO SECTION AT STATION 14+00 PER 2019 ANNUAL SURVEY

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

KEY:
 — 2019 ANNUAL SURVEY

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ENGR CHK	ORIG ENGR	LEAD ENGR	QA	CONF CTRL/NUCL SFTY	FAC MGR	EMTS MGR	ENV COMP
13	X	AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	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	X
11	X	AS-BUILT ENTIRE DRAWING FOR 2017 ANNUAL LANDFILL SURVEY	X	X	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	X	X
9	X	AS-BUILT ENTIRE DRAWING FOR 2015 ANNUAL SURVEY	X	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	JAU		
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												
3	4/14/10	ISSUED FOR 2010 ANNUAL SURVEY	HDH	MDS	PAC	MDS	PAC	N/A	N/A	EVI	KAS	
2	3/27/09	ISSUED FOR 2009 ANNUAL SURVEY	ST	MDS	JKT	MDS	JKT	LV	N/A	PC	LF	
1	5/12/08	ISSUED FOR 2008 ANNUAL SURVEY										
0	5/31/07	ISSUED FOR 2007 ANNUAL SURVEY										

REV	DRW	CHKR	RE	TR	APPD	DATE
13	KTW	SCT	MDS	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

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 2019 ANNUAL SURVEY, PGDP

TITLE:
 CROSS SECTION STATION 14+00

CAD FILE NAME C7DC7460UA007 rev13.dwg	BUILDING OUTSIDE	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA007		REV 13

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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

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.

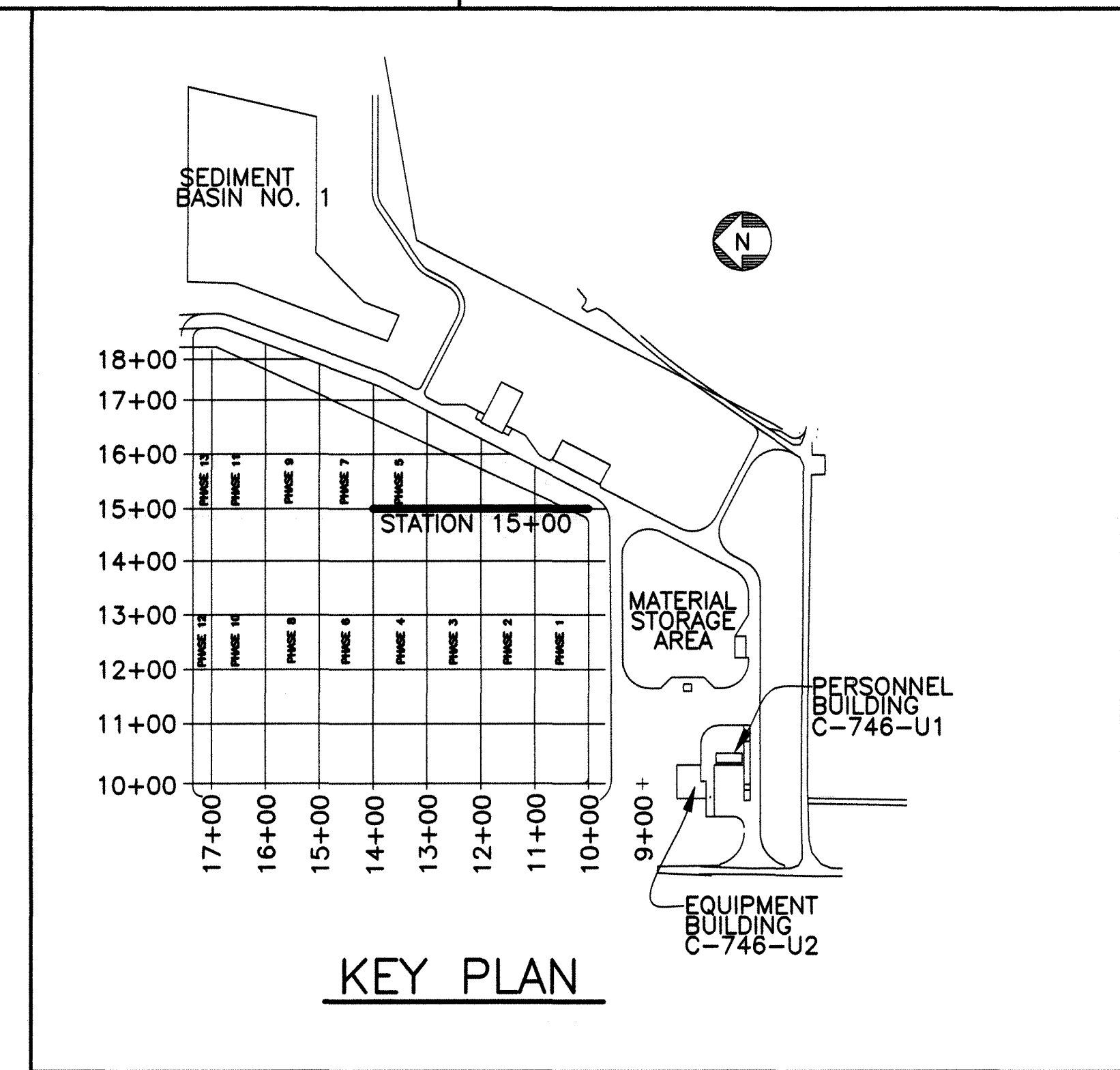
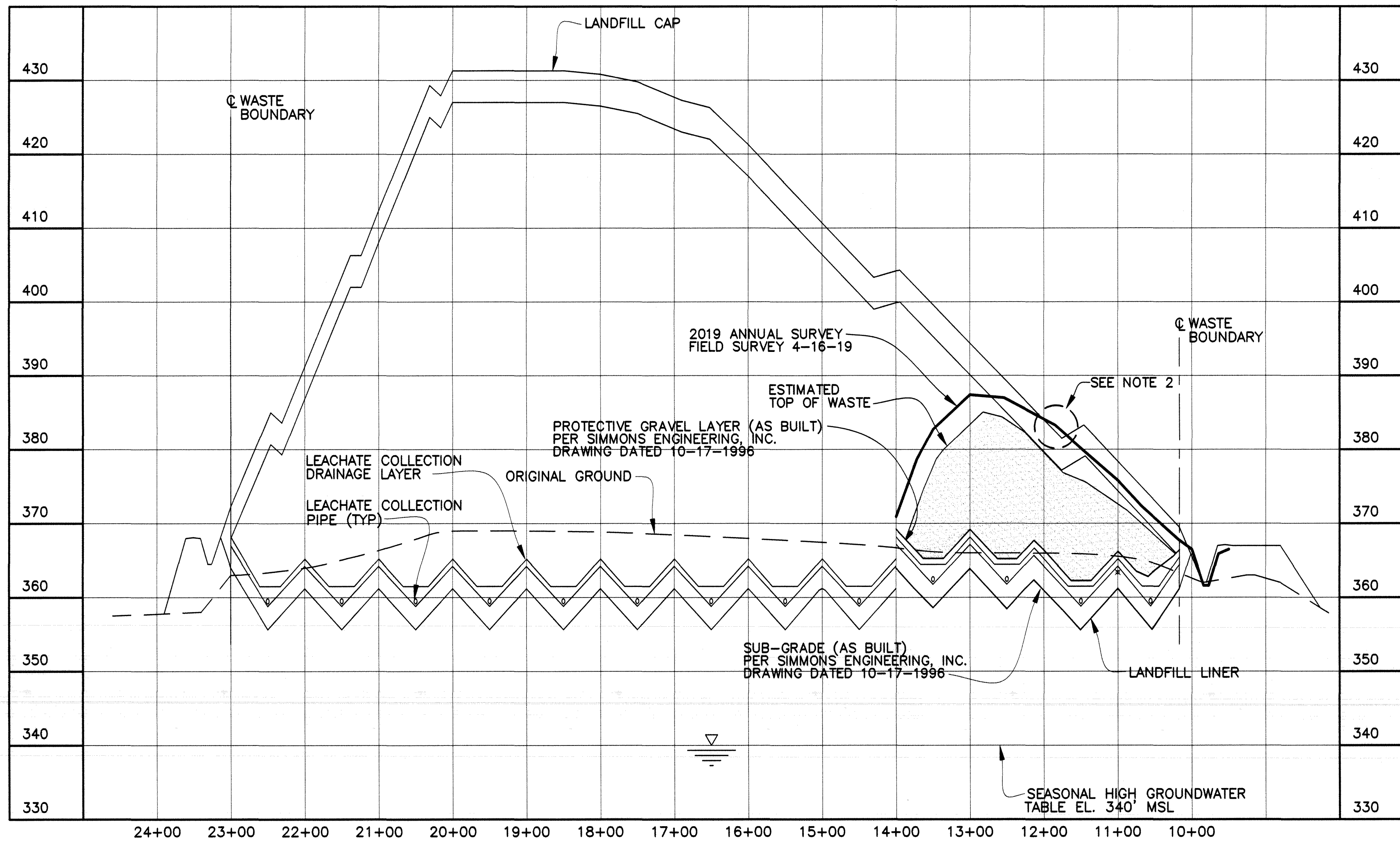
PLS

Mitchell D. Stewart
 MITCHELL D. STEWART
 4/23/19
 LICENSED PROFESSIONAL LAND SURVEYOR

FOR 2019 SURVEY

DATE

PROFESSIONAL SEAL



- 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 AND EXCEEDING THE FINAL CAP DESIGN ELEVATION WILL BE REMOVED PRIOR TO FINAL CAP CONSTRUCTION.
 - NO WASTE WAS ADDED TO SECTION AT STATION 15+00 PER 2019 ANNUAL SURVEY

KEY:
 — 2019 ANNUAL SURVEY

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

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ENGR CHK	DRS/ENGR	LEAD ENGR	CONF NUCL SFTY	FAC MGR	E&TS MGR	ENV COMP
13	X	AS-BUILT ENTIRE DRAWING FOR 2019 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
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	4/19/16	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	
4	4/12/11	ISSUED FOR 2011 ANNUAL SURVEY	HDH	MDS	MDS	JKT	N/A	SML	RES	DLA	
DRAWING REVISIONS											
3	4/14/10	ISSUED FOR 2010 ANNUAL SURVEY	HDH	MDS	PAC	MDS	PAC	N/A	N/A	EVI	KAS
2	3/27/09	ISSUED FOR 2009 ANNUAL SURVEY	ST	MDS	JKT	MDS	JKT	LV	N/A	PC	LF
1	5/12/08	ISSUED FOR 2008 ANNUAL SURVEY									
0	5/31/07	ISSUED FOR 2007 ANNUAL SURVEY									
REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ENGR CHK	DRS/ENGR	LEAD ENGR	CONF NUCL SFTY	FAC MGR	E&TS MGR	ENV COMP

REV	DRW	CHKR	RE	TR	APPD	DATE
13	KTW	SCT	MDS	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

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 2019 ANNUAL SURVEY, PGDP

TITLE:
 CROSS SECTION
 STATION 15+00

CAD FILE NAME C7DC7460UA008 rev13.dwg	BUILDING OUTSIDE	PLANT PGDP	CLASS U
SCALE: NOTED	DRAWING NUMBER C7DC7460UA008		REV 13

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 NUMBER OR DETAIL LETTER
 DRAWING ON WHICH SECTION OR DETAIL IS TAKEN
 DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

SECTION AND DETAIL KEY

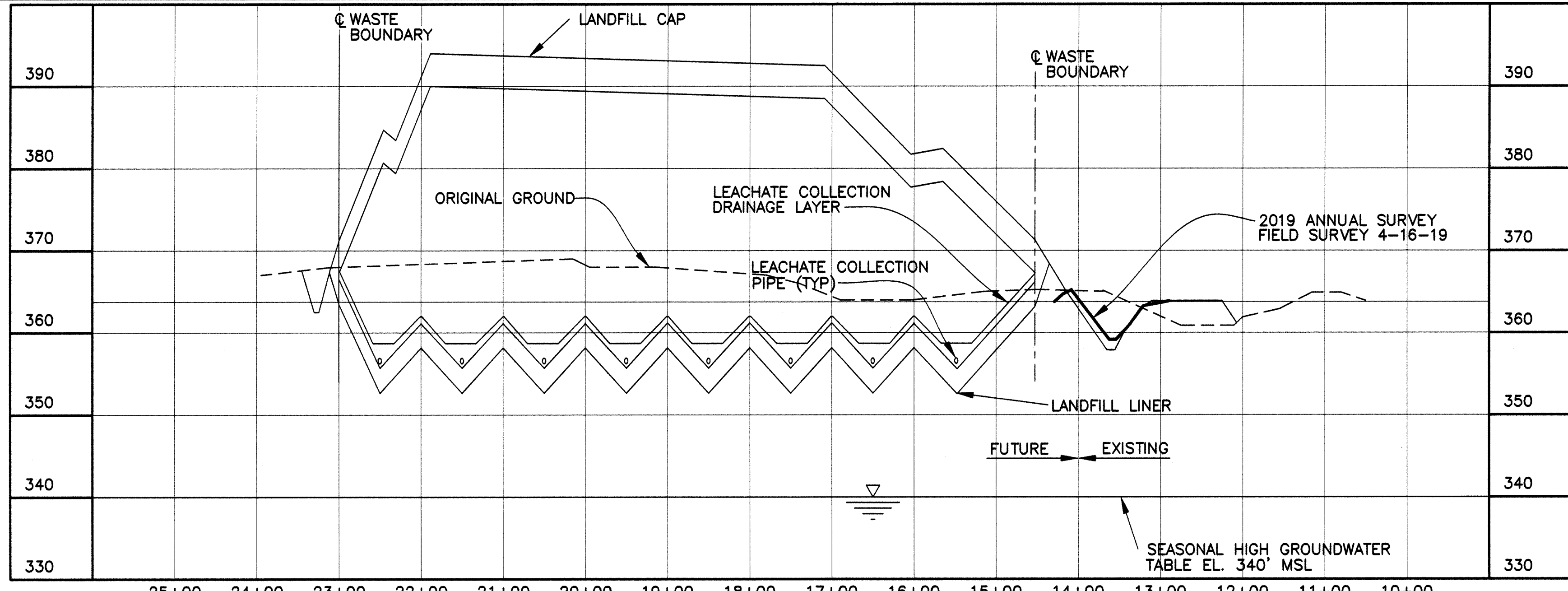
THE ORIGINAL DRAWING AND SUBSEQUENT REVISIONS THEREOF, WITH APPROVAL NAMES, INITIALS, DATES AND WITH THE PE SEAL, IF APPLICABLE, ARE MAINTAINED IN THE FILES. REFERENCE DRAWINGS C5E-59701-C01, C5E-59701-E00, C5E-59701-Q20, C5E-59701-Q21, C5E-59701-Q22, C5E-59701-Q23, C5E-59701-Q24, AND C5E-59701-Q25.

PLS

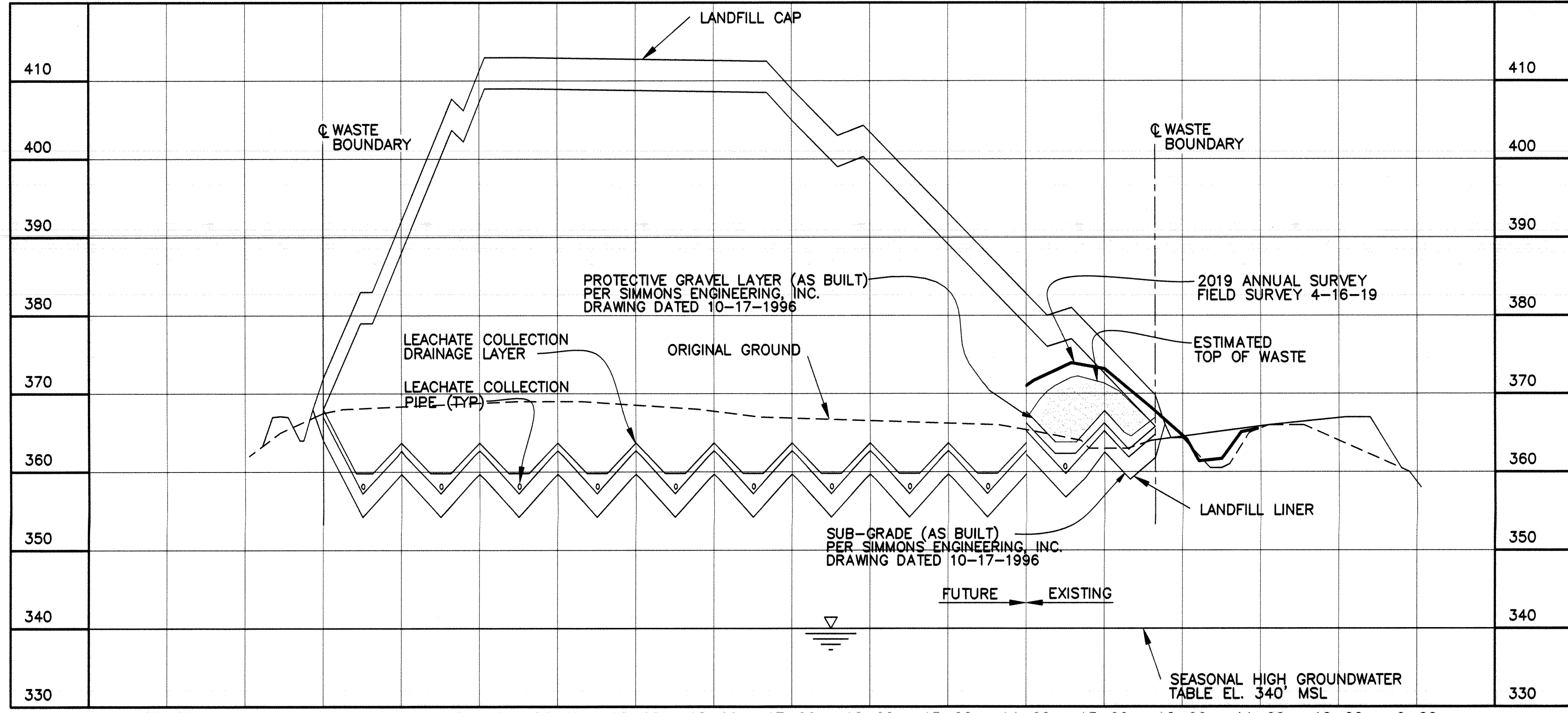
MITCHELL D. STEWART
 LICENSED PROFESSIONAL LAND SURVEYOR
 7/23/19

FOR 2019 SURVEY

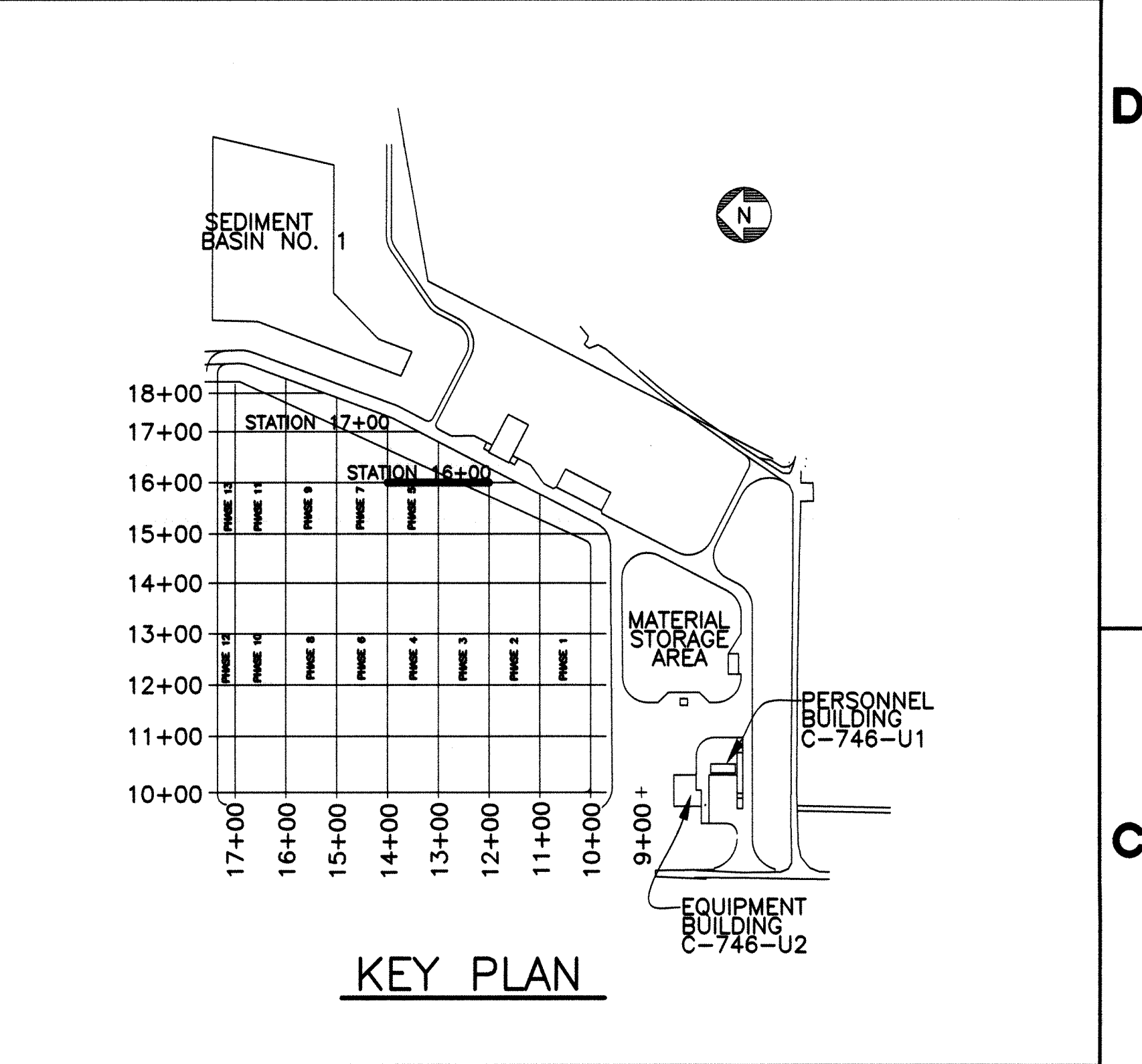
DATE
 PROFESSIONAL SEAL



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



SECTION @ STATION 16+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.
- NO WASTE WAS ADDED TO SECTION AT STATION 16+00 OR 17+00 PER 2019 ANNUAL SURVEY

KEY:

— 2019 ANNUAL SURVEY

12	KTW	SCT	DJH	X	JRS	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

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 2019 ANNUAL SURVEY, PGDP

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

CAD FILE NAME: C7DC7460UA009 rev12.dwg
 BUILDING: OUTSIDE
 PLANT: PGDP
 CLASS: U

SCALE: NOTED
 DRAWING NUMBER: C7DC7460UA009
 REV: 12

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	ENGR ENGR	LEAD ENGR	CONF ENGR/NUCL SFTY	FAC MGR	EATS MGR	ENV COMP
1		AS-BUILT ENTIRE DRAWING FOR 2019 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
2		AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
3		AS-BUILT ENTIRE DRAWING FOR 2018 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
4	5/15/15	ISSUED FOR 2015 ANNUAL SURVEY	CB	JKT	KLH	JKT	N/A	RGS	KLH	JAJ
5	5/19/14	ISSUED FOR 2014 ANNUAL SURVEY	KTW	TAW	KLH	JKT	N/A	RGS	KAS	MPL
6		AS-BUILT ENTIRE DRAWING FOR 2016 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X
7		AS-BUILT ENTIRE DRAWING FOR 2017 ANNUAL LANDFILL SURVEY	X	X	X	X	X	X	X	X

PLS

FOR 2019 SURVEY

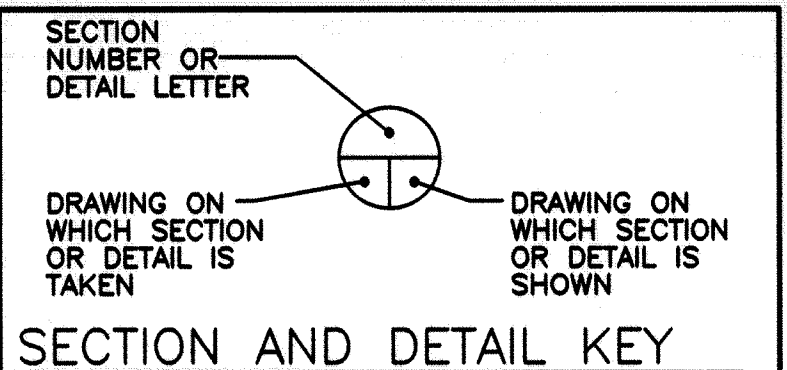
DATE

PROFESSIONAL SEAL

(Professional Seal Stamp)

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ENCLOSURE 3



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.

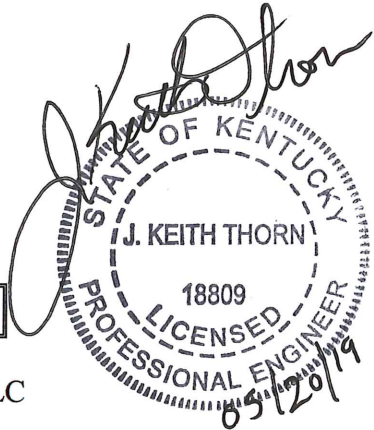


Permittee Information

- 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: 12-31-2019
 - d. Individual - KY L. S. License No.: 3237 Expires: 6-30-2020



Facility Information

25. Date of current over-flight / survey: 4 - 16 - 2019
26. Date of last over-flight / survey: 3 - 22 - 2018
27. Number of days between over-flights / surveys: 390
28. Total permitted landfill airspace in cubic yards: 1,179,420 C.Y.
29. FILLED airspace as of this date in cubic yards: 133,594 C.Y.
30. Subtract Item 28 from Item 29 to obtain remaining airspace in cubic yards: 1,045,826 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).

4.05 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.

827 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: Deputy Program Manager/CEO Date: 5-28-19

Signature per 401 KAR 47:160: Myrna E. Redfield

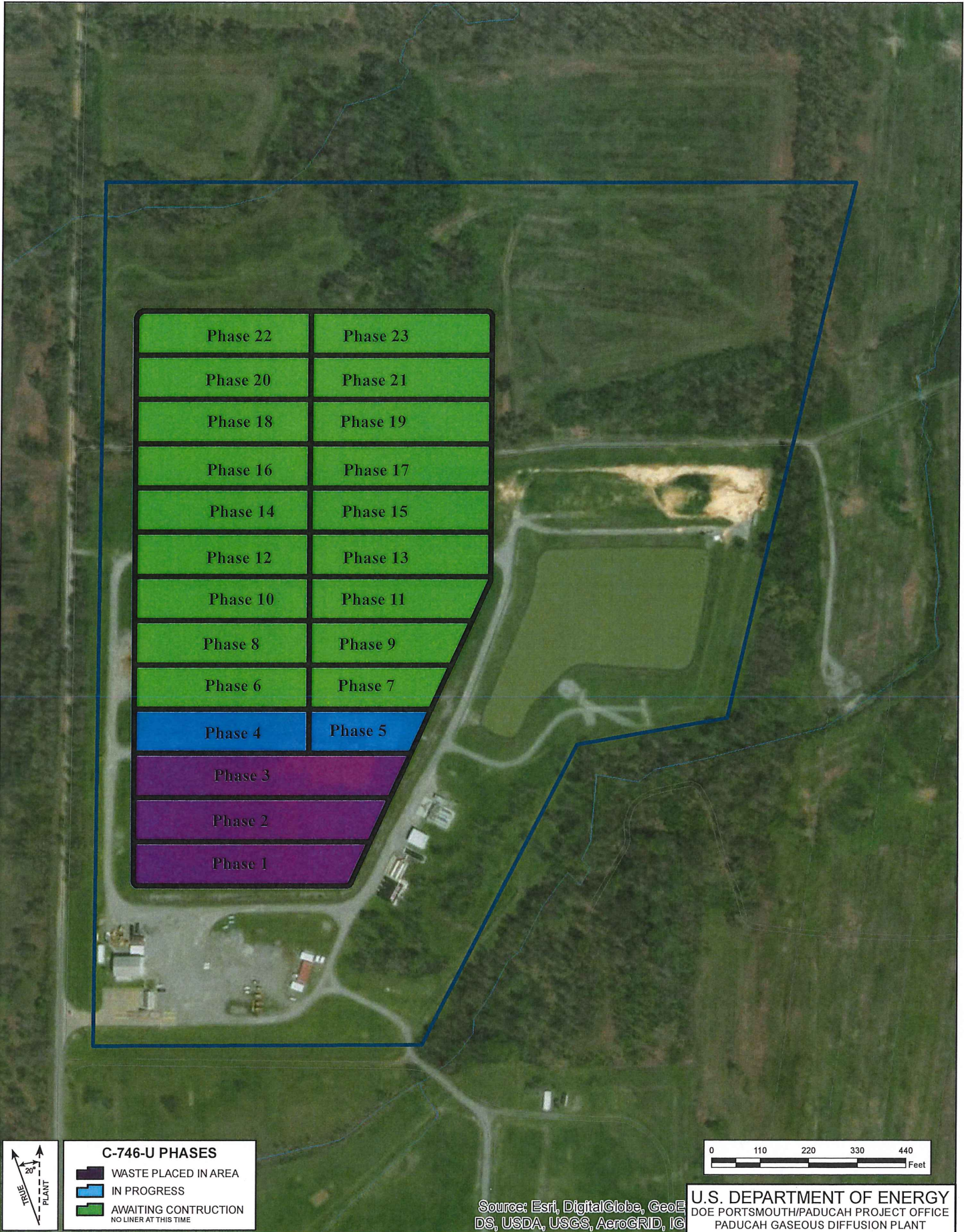
Subscribed and sworn to before me this 28th day of May, Year 2019

Notary Public Signature: Shera Bowen #609500

State of KY County of STATE AT LARGE My commission expires: 10-27-22



ENCLOSURE 4

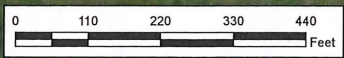


Phase 22	Phase 23
Phase 20	Phase 21
Phase 18	Phase 19
Phase 16	Phase 17
Phase 14	Phase 15
Phase 12	Phase 13
Phase 10	Phase 11
Phase 8	Phase 9
Phase 6	Phase 7
Phase 4	Phase 5
Phase 3	
Phase 2	
Phase 1	



C-746-U PHASES

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



Source: Esri, DigitalGlobe, GeoEye, IGN, GeoEye, USDA, USGS, AeroGRID, IGN

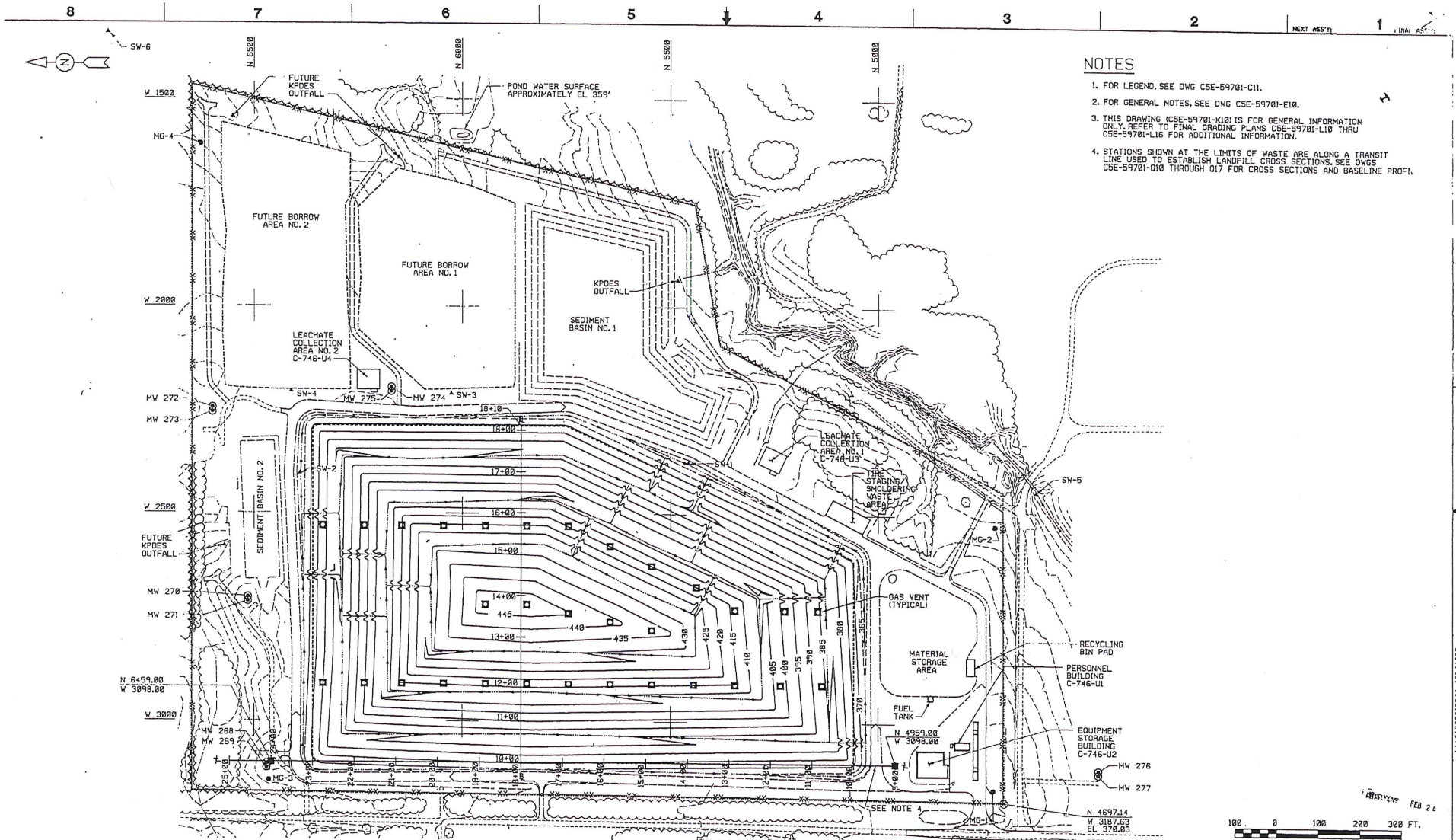
U.S. DEPARTMENT OF ENERGY
DOE PORTSMOUTH/PADUCAH PROJECT OFFICE
PADUCAH GASEOUS DIFFUSION PLANT

C-746-U Landfill Phases



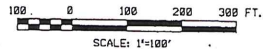
ENCLOSURE 5

ENCLOSURE 6



NOTES

1. FOR LEGEND, SEE DWG CSE-59701-C11.
2. FOR GENERAL NOTES, SEE DWG CSE-59701-E10.
3. THIS DRAWING (CSE-59701-K10) IS FOR GENERAL INFORMATION ONLY. REFER TO FINAL GRADING PLANS CSE-59701-L10 THRU CSE-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 CSE-59701-Q10 THROUGH Q17 FOR CROSS SECTIONS AND BASELINE PROFIL.



REVISION OF SECTION OR DETAIL
 DRAWING ON -
 WASTE SECTION
 OR DETAIL IS
 SHOWN
 SECTION AND DETAIL KEY

THIS DOCUMENT
 CONTROLLED BY
 CHANGE CONTROL
 SYSTEM 2
 ENGINEERING
 PROCEDURE EP-C-1R

REVISION OR ISSUE PURPOSE	BY	CHK	SECT	DEPT	DATE	PE	REQ	DATE	ISSUES	DATE	RPE	RPE NO	DATE	CLASS	DATE	QA	DATE	BT	CV	EC	EK	EM	IE	M	PD	SE	ARC	VER
TECHNICAL APPLICATION - ISSUE FOR KDMW REVIEW	JSM	MLC		ML	9/1/94																							
TECHNICAL APPLICATION - ISSUE FOR CLIENT REVIEW	JMK	MLC		MLC	7/7/94																							

DES	DATE	BY	CHK	SECT	DEPT	DATE	PE	REQ	DATE	ISSUES	DATE	RPE	RPE NO	DATE	CLASS	DATE	QA	DATE	BT	CV	EC	EK	EM	IE	M	PD	SE	ARC	VER	
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DRW	9/1/94	JSM	MLC		MLC	7/7/94																								
CHK	9/1/94	JSM	MLC		MLC	7/7/94																								
SECT																														
DEPT	Env. Eng.																													
PE	JSM																													
DATE	9/1/94																													
REV	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

PROJECT NAME:
SOLID WASTE LANDFILL, PGOP
 GENERAL FINAL
 GRADING PLAN

PLANT	BLOG	FL	SHL	OF	TYPE	CLASS
1	48	49	50	51	52	53
3	IC	PI	IT	POOP	AREA	A
51	52	53				
CC	RC	IN				

CAD FILE: C0800033.DGN
 SCALE: 1"=100'

SHEET 29 OF 51

REV B

JUNE 10, 1994