CLOSURE/POST CLOSURE PLAN
ASH POND AREA

TENNESSEE VALLEY AUTHORITY

KINGSTON FOSSIL PLANT

VOLUME 2 – DRAWINGS

SEPTEMBER 1995

Revised – April 1998

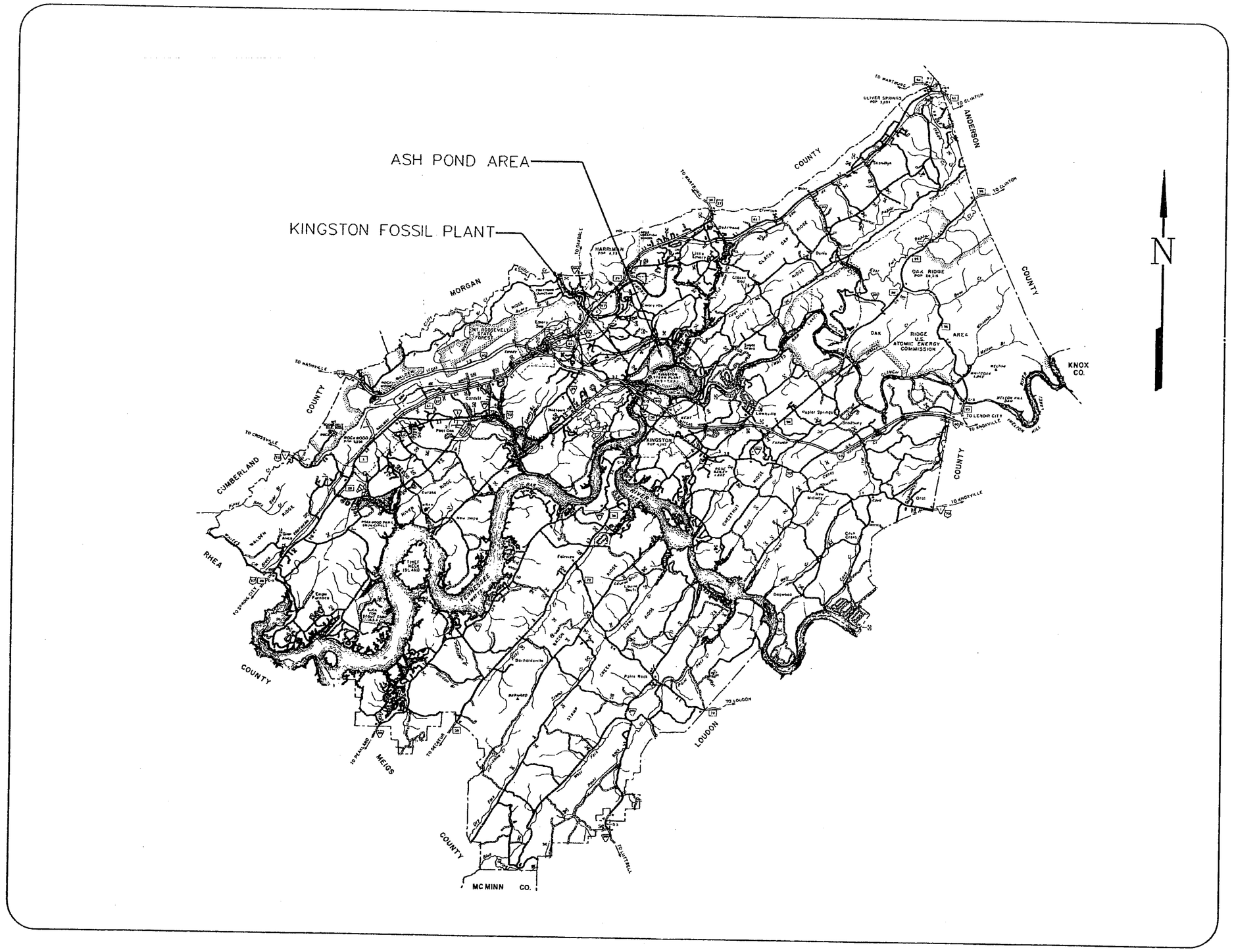
TVA

Prepared By:

Tennessee Valley Authority
Site and Environmental Engineering Section

TVA-00017654

TENNESSEE VALLEY AUTHORITY
KINGSTON FOSSIL PLANT
ASH POND AREA
CLOSURE/POST CLOSURE PLAN
ROANE COUNTY, TENNESSEE



VICINITY MAP

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TVA

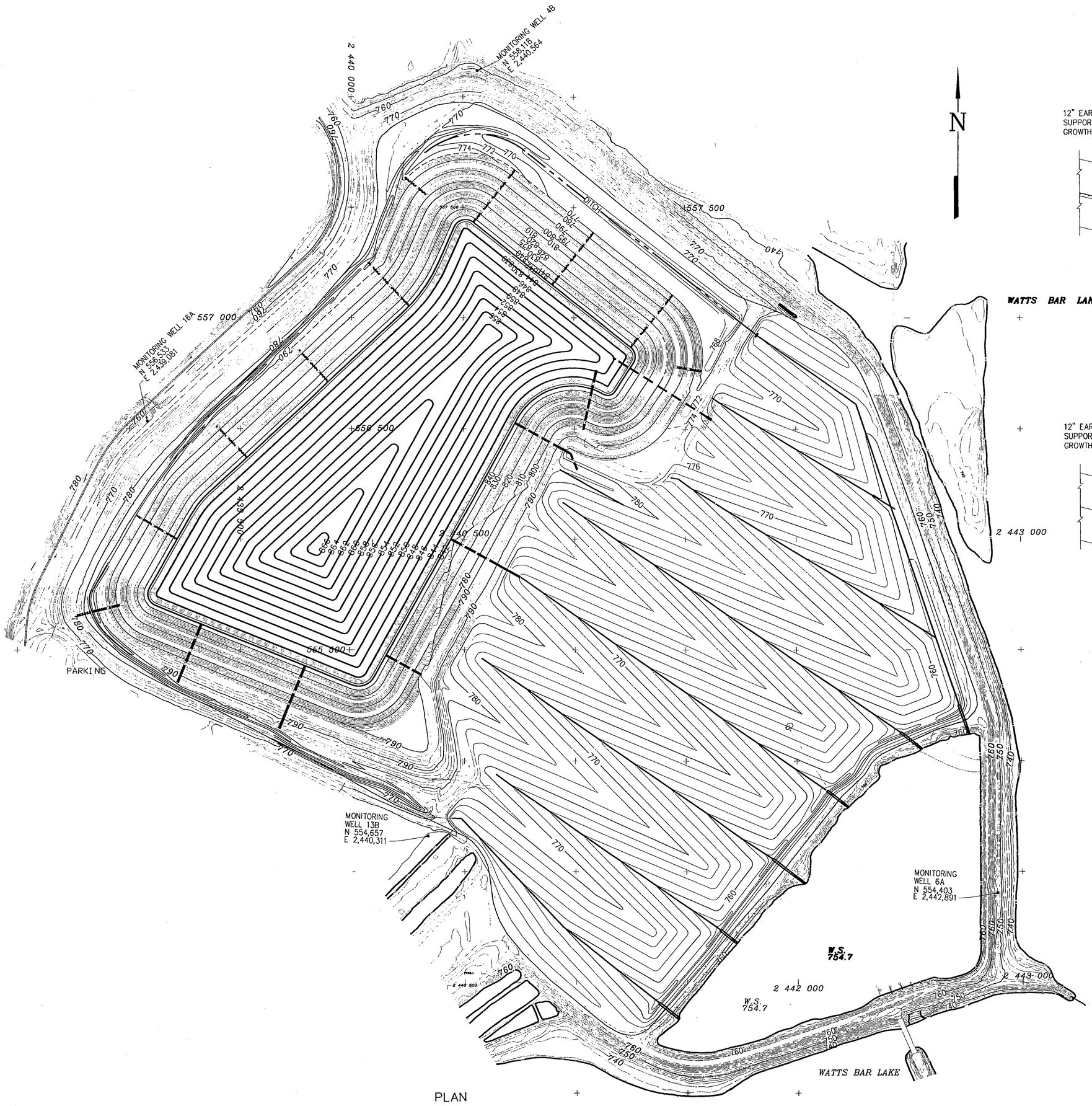
TENNESSEE VALLEY AUTHORITY

HAROLD L. PETTY REGISTERED ENGINEER No. 015578 STATE OF TENNESSEE

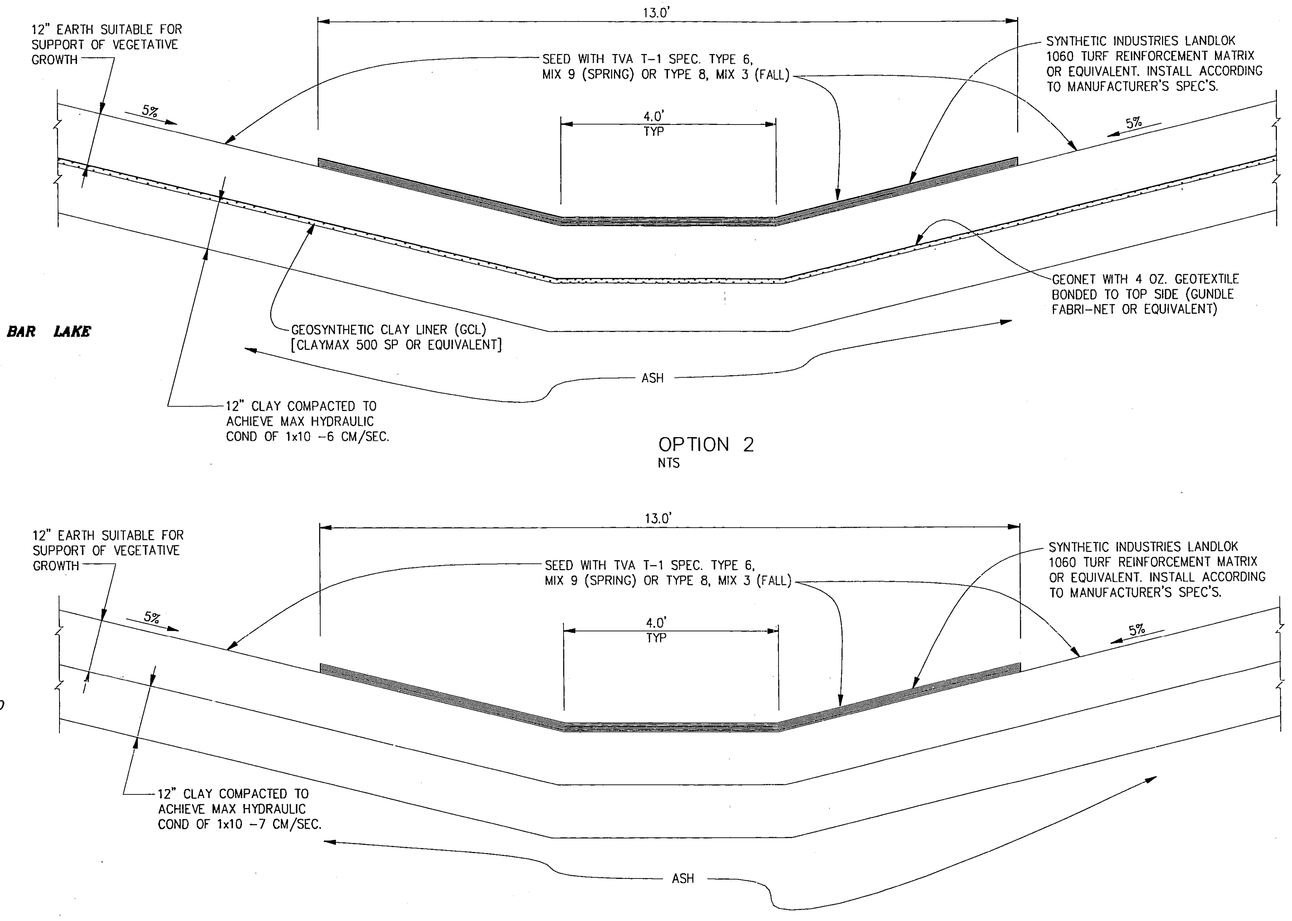
4/6/98

FOSSIL ENGINEERING SERVICES
1101 MARKET STREET
CHATTANOOGA, TENNESSEE 37402
(423) 751-7871

TVA-00017655



PLAN



OPTION 2
NTS

OPTION 1
NTS

LIMITS OF FINAL COVER.

HAROLD L. PETTY
REGISTERED ENGINEER
No. 015578
STATE OF TENNESSEE
4/6/98

R											
R 0		BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D
INITIAL ISSUE											
REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD

SCALE: 1"=200' EXCEPT AS NOTED

YARD

ASH POND AREA
FINAL CLOSURE CONTOURS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	H.L.PETTY	H.L.PETTY	W.K.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 | DATE | 36 | C | 10W426-2 | R 0

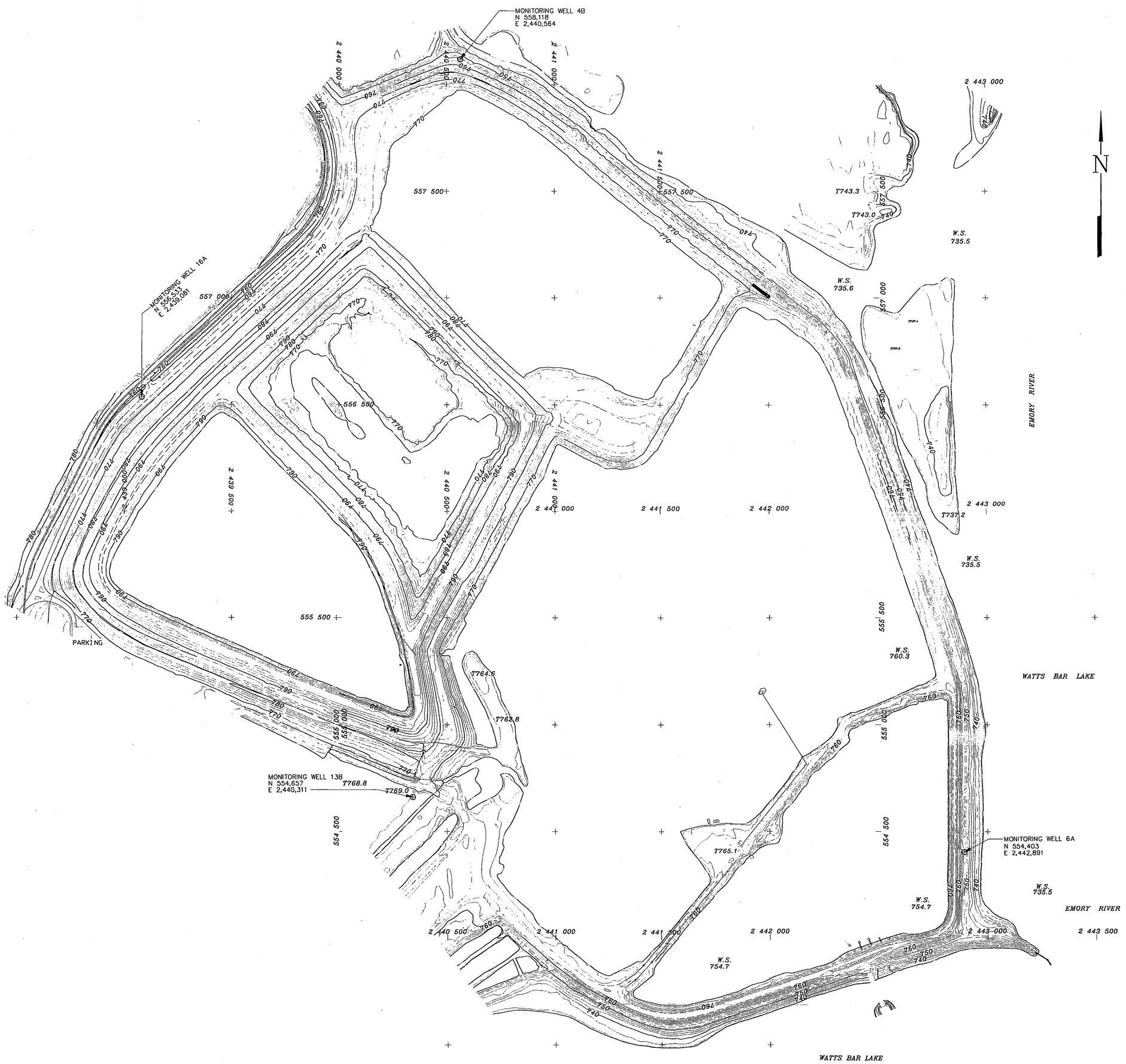
PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: | REV NO.

10426-2

TVA-00017656



PLAN

R											
R 0		BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D
INITIAL ISSUE											
REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD

SCALE: 1"=200' EXCEPT AS NOTED

YARD

ASH POND AREA
EXISTING CONTOURS (1994)

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	H.L.PETTY	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14	DATE	36	C	10W426-1	R 0

PLOT FACTOR:1=1
W_TVA

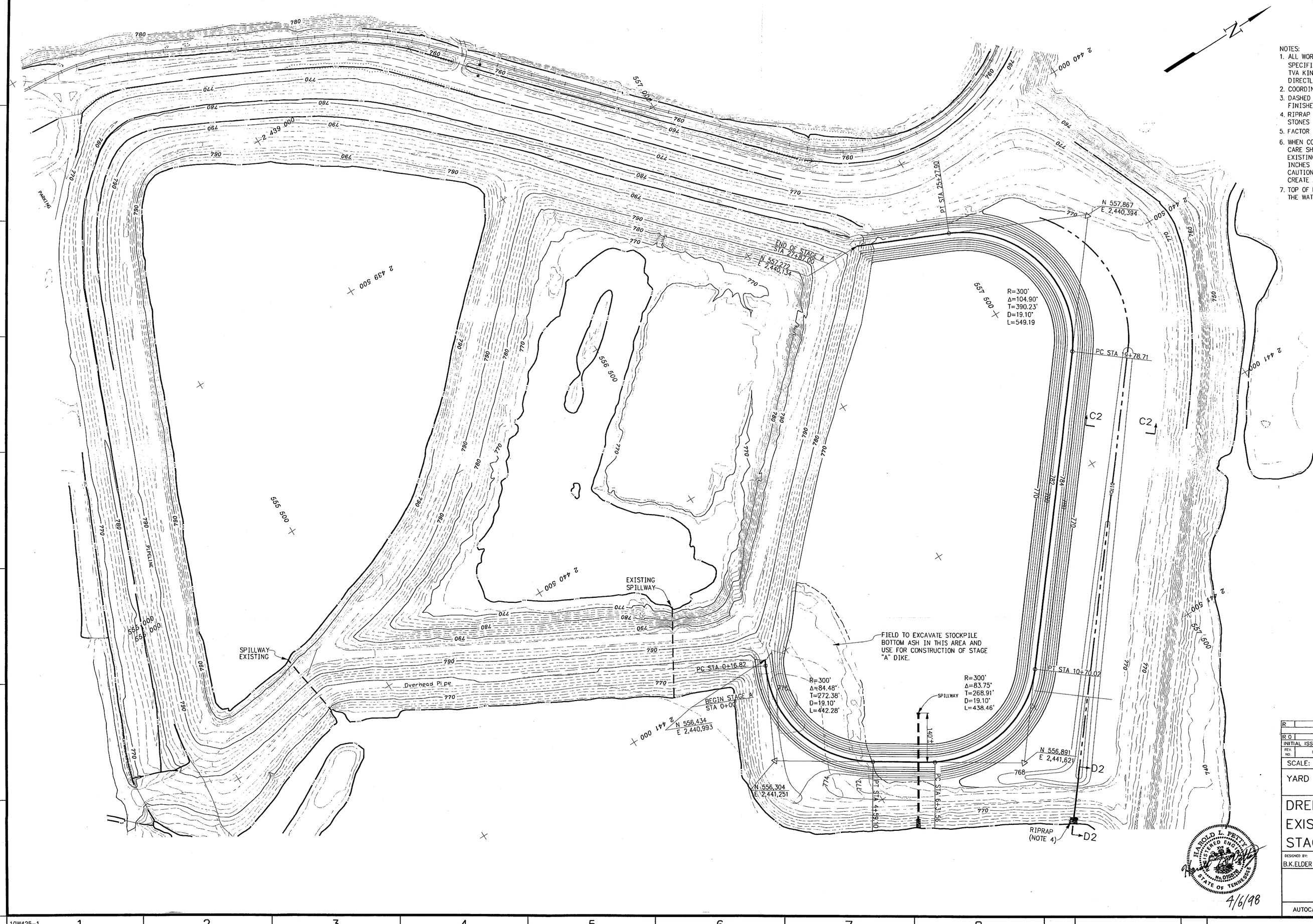
C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: REV NO.

HAROLD L. PETTY
REGISTERED ENGINEER
No. 015578
STATE OF TENNESSEE
4/6/98

10426-1

TVA-00017657



NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE T-1 GENERAL CONSTRUCTION SPECIFICATIONS AND THE CLOSURE / POST - CLOSURE PLAN - ASH POND AREA- TVA KINGSTON FOSSIL PLANT, UNLESS OTHERWISE NOTED, SECTION NUMBERS REFER DIRECTLY TO THE T-1 SPECIFICATION.
2. COORDINATES SHOWN ARE TENNESSEE STATE COORDINATES.
3. DASHED CONTOURS INDICATE EXISTING GROUND. SOLID CONTOURS INDICATE FINISHED GRADING.
4. RIPRAP SHALL BE 18 INCHES THICK. A MINIMUM OF 50%, BY WEIGHT, OF THE STONES SHALL BE 100 LB. EACH AND IN ACCORDANCE WITH SECTION 575.
5. FACTOR OF SAFETY FOR STATIC CONDITIONS IS 1.75 OR GREATER.
6. WHEN CONNECTING THE ENDS OF THE NEW DIKE TO THE EXISTING DIKE, EXTREME CARE SHALL BE USED TO INSURE AN IMPERVIOUS AND STABLE CONNECTION. THE EXISTING DIKE SHALL BE BENCHED AND SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES AND THEN COMPACTED WITH THE NEW FILL TO FORM A BOND. THE UTMOST CAUTION SHALL BE USED IN BENCHING THE EXISTING DIKE SLOPES SO AS NOT TO CREATE AN UNSTABLE CONDITION.
7. TOP OF DIKE MUST BE MAINTAINED A MINIMUM OF 4' ABOVE THE ELEVATION OF THE WATER IN THE DISPOSAL AREA.

REV NO	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD
R											
R 0	INITIAL ISSUE	BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D

SCALE: 1" = 100' EXCEPT AS NOTED

YARD

DREDGE CELLS EXISTING CONTOURS AND STAGE A PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	H.L.PETTY	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 | DATE | 36 | C | 10W425-1 | R 0

PLOT FACTOR:1=1
W_TVA

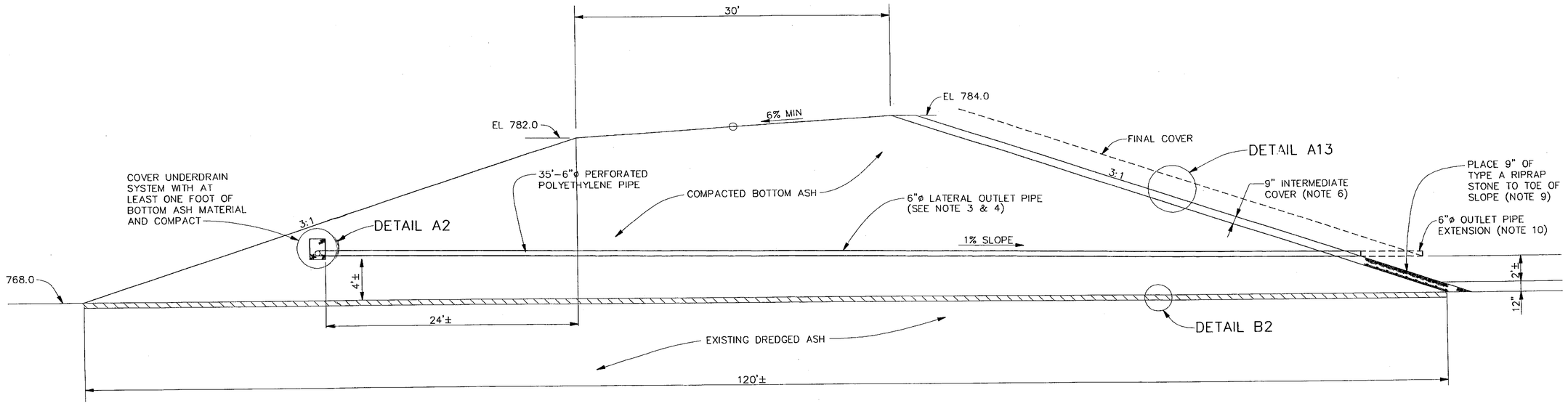
C.A.D. DRAWING
DO NOT ALTER MANUALLY

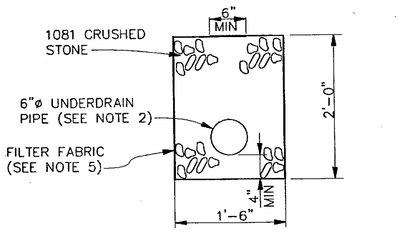
TASK COMPLETED BY: | REV NO.

HAROLD L. PETTY REGISTERED ENGINEER No. 0 STATE OF TENNESSEE
4/6/98

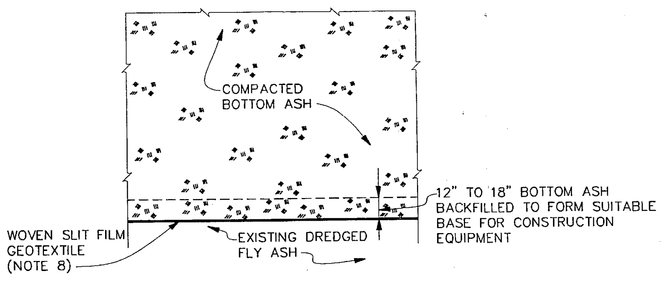
36 C 10W425-1

TVA-00017658

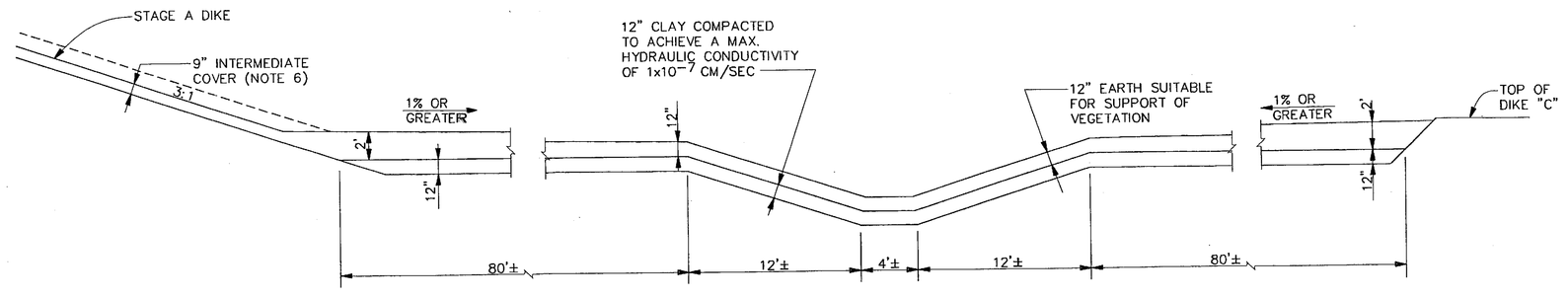




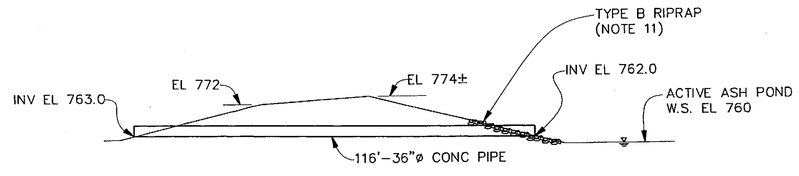
DETAIL A2
TYP UNDERDRAIN CROSS SECTION
1" = 1'-0"



DETAIL B2
1" = 5'



C2 – C2
1" = 5'



D2 – D2
1" = 20'

NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE T-1 GENERAL CONSTRUCTION SPECIFICATIONS AND THE CLOSURE/POST-CLOSURE PLAN – ASH POND AREA – TVA KINGSTON FOSSIL PLANT, UNLESS OTHERWISE NOTED. SECTION NUMBERS REFER DIRECTLY TO THE T-1 SPECIFICATION.
2. UNDERDRAIN PIPE SHALL BE PERFORATED POLYETHYLENE CORRUGATED TUBING AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., COLUMBUS, OHIO (614) 457-3051 OR EQUAL. UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 500.
3. LATERAL OUTLET PIPE SHALL BE NON-PERFORATED POLYETHYLENE CORRUGATED TUBING AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., COLUMBUS, OHIO (614) 457-3051 OR EQUAL.
4. LATERAL OUTLET PIPES SHALL BE PLACED EVERY 200 FEET ON CENTER BEGINNING AT STATION 2+00 (TOTAL OF 13 FOR STAGE A).
5. FILTER FABRIC SHALL BE TREVIRA SPUNBOUND TYPE 1135 NON-WOVEN GEOTEXTILE OR EQUIVALENT AND SHALL BE INSTALLED ACCORDING TO SECTION 571.
6. INTERMEDIATE COVER SHALL BE PLACED INCREMENTALLY AND COINCIDENTALLY WITH DIKE CONSTRUCTION AND WILL CONSIST OF 9" OF EARTH SUITABLE FOR THE SUPPORT OF VEGETATION. AFTER PLACEMENT OF COVER, AREA SHALL BE SEEDED WITH SECTION 580 TYPE 6, MIX 9 (SPRING) OR TYPE 8, MIX 3 (FALL).
7. THE AREA FOR THE BASE OF THE DIKE IS TO BE CLEARED OF VEGETATION BY SCRAPING THE SURFACE ACCORDING TO SECTION 101.
8. BASE REINFORCEMENT SHALL CONSIST OF TYPE 300ST WOVEN SLIT FILM GEOTEXTILE AS PRODUCED BY SYNTHETIC INDUSTRIES, INC., CHATTANOOGA, TN (800) 621-0444 OR EQUIVALENT PLACED OVER THE DREDGED ASH SURFACE. 12" TO 18" OF BOTTOM ASH IS THEN TO BE BACKFILLED ONTO THE GEOTEXTILE TO PROTECT IT FROM TEARS BY THE HAULING EQUIPMENT. GEOTEXTILE IS TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
9. TYPE A RIPRAP SHALL BE 9" THICK. A MINIMUM OF 50%, BY WEIGHT, OF THE STONES SHALL BE 25 LB. EACH AND IN ACCORDANCE WITH SECTION 575.
10. BEFORE FINAL COVER IS PLACED, OUTLET PIPES SHALL BE EXTENDED A MINIMUM OF 6' TO INSURE THAT THE END OF THE PIPE PROTRUDES BEYOND THE FINAL GRADE.
11. TYPE B RIPRAP SHALL BE 18" THICK. A MINIMUM OF 50%, BY WEIGHT, OF THE STONES SHALL BE 100 LB. EACH AND IN ACCORDANCE WITH SECTION 575.
12. AREAS OF FINAL EARTH COVER SHALL BE SEEDED (TYPE 8, MIXTURE 3) AND MULCHED IN ACCORDANCE WITH SECTIONS 580 AND 582. FINAL COVER SHALL NOT BE PLACED UNTIL DREDGING IS COMPLETED AND FACILITY IS AT ULTIMATE ELEVATION.

HAROLD L. PETTY REGISTERED ENGINEER No. 010511 STATE OF TENNESSEE
4/6/98

R														
R 0	BKE	GCL	HLP	KWB	RGJ	WDH	KIF044						D	DISCIPLINE INTERFACE
INITIAL ISSUE														
REV NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV NO.			
SCALE: 1"=5'										EXCEPT AS NOTED				

YARD

DREDGE CELLS
TYPICAL SECTIONS
STAGE A

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14	DATE	36	C	10W425-2	R 0

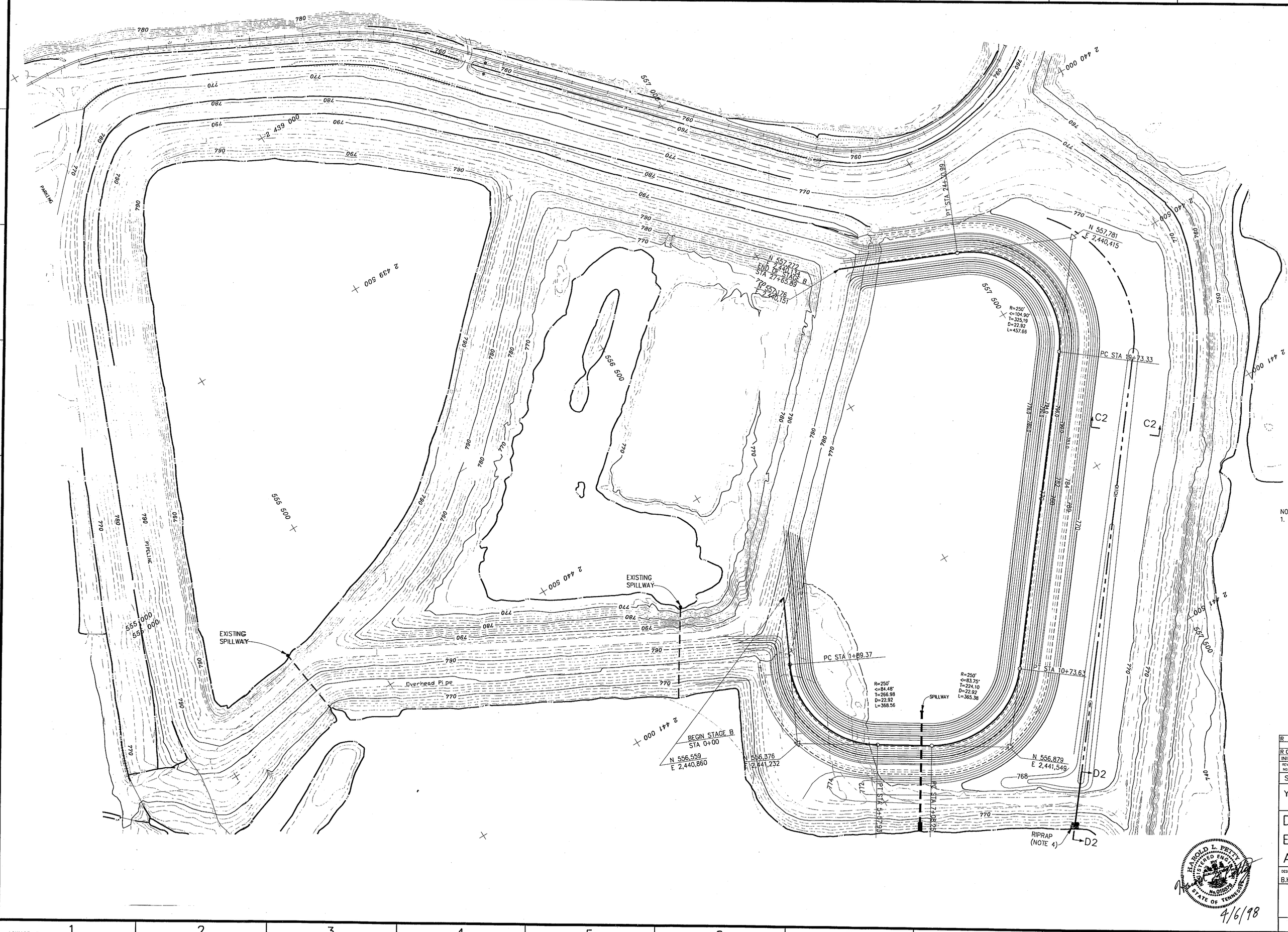
PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY:	REV NO.

10W425-2

TVA-00017659



NOTES:
1. FOR GENERAL NOTES SEE 10W425-1.

REV NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD
R											
R 0		BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D
INITIAL ISSUE											

SCALE: 1"=100' EXCEPT AS NOTED

YARD

DREDGE CELLS
EXISTING / FUTURE CONTOURS AND STAGE B PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 | DATE | 36 | C | 10W425-3 | R 0

PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: | REV NO.

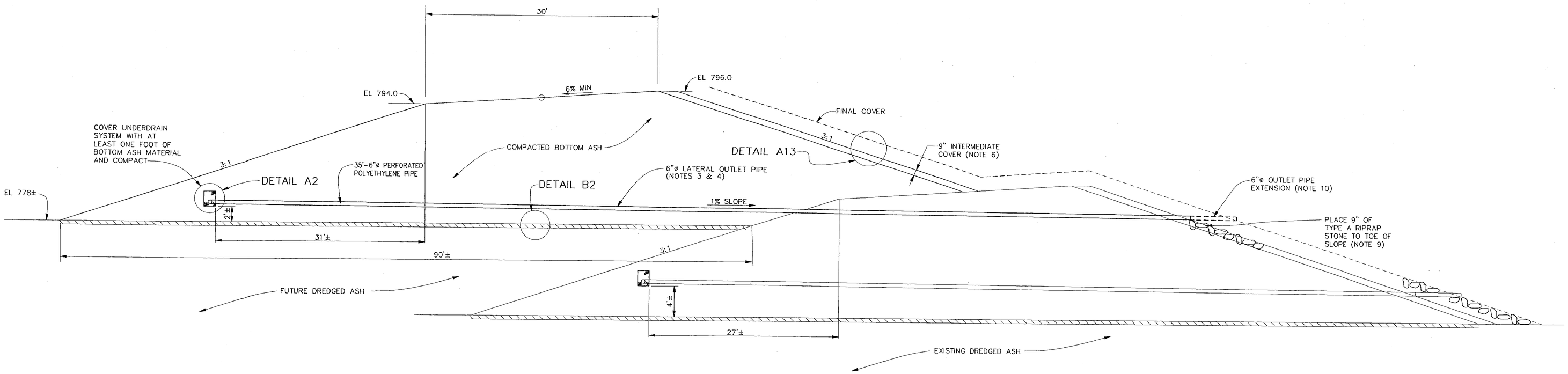
HAROLD L. PETTY
REGISTERED ENGINEER
No. 015578
STATE OF TENNESSEE

4/6/98

36 | C | 10W425-3

10W425-3

TVA-00017660



NOTES:
1. FOR GENERAL NOTES SEE 10W425-2.

HAROLD L. PETTY — REGISTERED ENGINEER — STATE OF TENNESSEE — NO. 015578
7/6/98

R											
R 0	BKE 7/6/98	GCL 7/6/98	BKE 7/6/98	HLP 7/6/98	KWB 7/6/98	RGJ	WDH	KIFD44		D	DISCIPLINE INTERFACE
INITIAL ISSUE											
REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV	REVWD	APPD	ISSD	PROJECT ENGR	AS CONST	REV NO.

SCALE: 1" = 5' EXCEPT AS NOTED

YARD

DREDGE CELLS
TYPICAL SECTION
STAGE B

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14	DATE	36	C	10W425-4	R 0

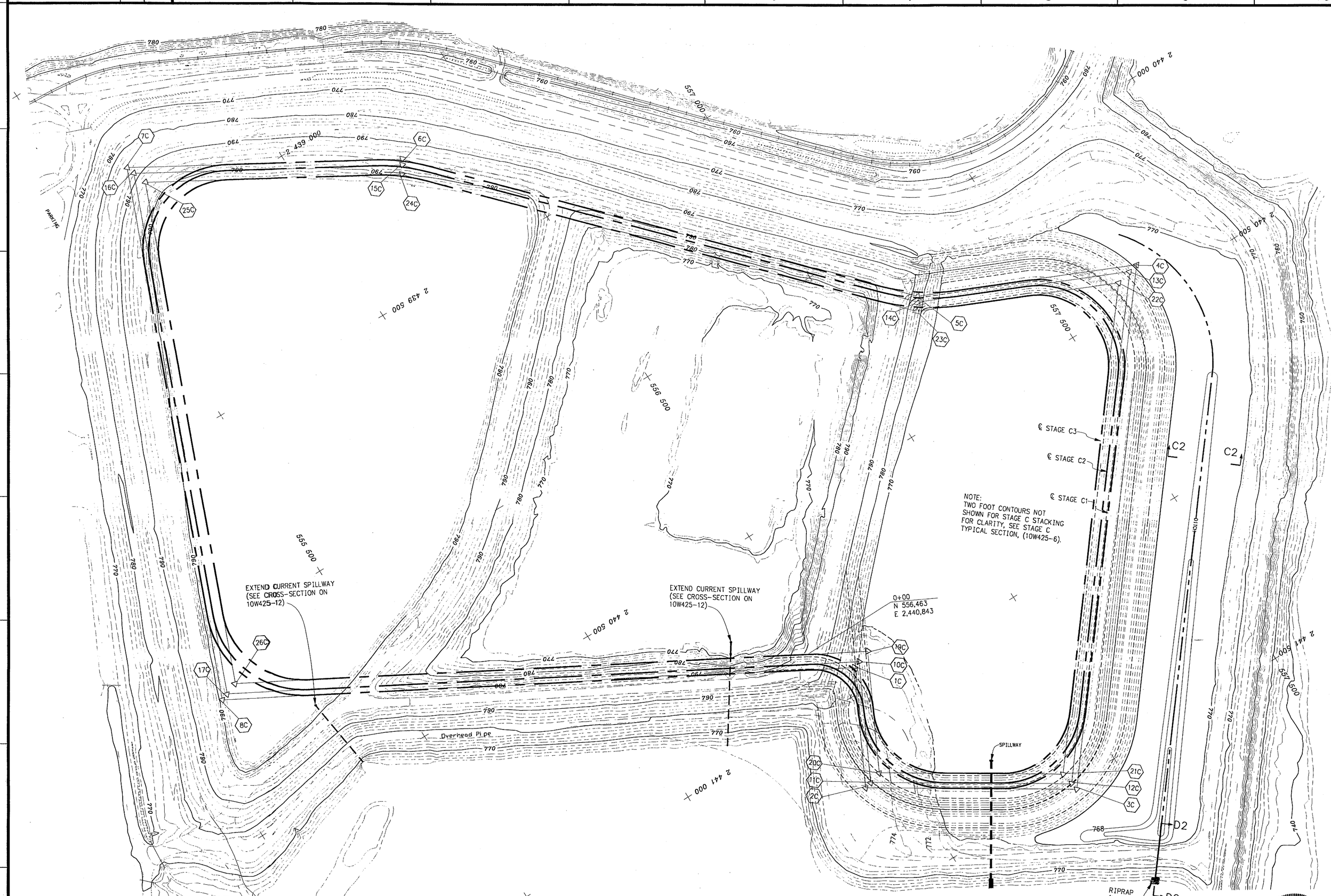
PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: | REV NO.

10W425-4

TVA-00017681



NOTE:
TWO FOOT CONTOURS NOT SHOWN FOR STAGE C STACKING FOR CLARITY, SEE STAGE C TYPICAL SECTION, (10W425-6).

PI	Lambert Coordinate North	East	R (ft)	D (deg)	T (ft)	D	L (ft)	PC (sta)	PT (sta)
1C	556,548	2,440,937	115	90	116.28	49.83	176.09	0.00	176.09
2C	556,405	2,441,223	225	84.475	204.29	25.46	331.66	181.83	513.49
3C	556,873	2,441,518	225	83.745	201.69	25.46	328.50	687.89	1016.42
4C	557,744	2,440,424	225	104.896	292.68	25.46	412.04	1920.59	2332.63
5C	557,213	2,440,192	500	23.399	103.54	11.46	204.27	2515.69	2719.96
6C	556,264	2,439,174	500	16.902	74.29	11.46	147.55	3933.80	4081.35
7C	555,643	2,438,814	225	97.980	258.74	25.46	384.77	4466.10	4850.87
8C	555,104	2,440,140	250	83.235	222.10	22.92	363.20	5801.37	6164.57
10C	556,568	2,440,931	130	90	124.95	44.07	199.06	0	199.06
11C	556,424	2,441,218	210	84.475	190.67	27.28	309.55	204.85	514.40
12C	556,869	2,441,499	210	83.745	188.24	27.28	307.38	689.08	996.46
13C	557,719	2,440,430	210	104.896	273.16	27.28	384.29	1900.83	2285.12
14C	557,205	2,440,205	515	23.399	106.65	11.13	209.77	2466.92	2676.69
15C	556,255	2,439,187	485	16.902	72.06	11.81	142.70	3890.88	4033.58
16C	555,650	2,438,836	210	97.98	241.49	27.28	359.22	4419.55	4778.77
17C	555,123	2,440,133	235	83.235	208.77	24.38	341.26	5728.48	6069.74
19C	556,602	2,440,920	155	90	148.98	36.97	237.34	0	237.34
20C	556,456	2,441,208	185	84.475	167.97	30.97	262.03	254.05	516.08
21C	556,864	2,441,465	185	83.745	165.83	30.97	270.4	426.04	696.44
22C	557,679	2,440,440	185	104.896	240.64	30.97	338.59	1599.62	1938.21
23C	557,192	2,440,227	540	23.399	111.82	10.61	220.36	2117.5	2337.86
24C	556,241	2,439,207	460	16.902	68.35	12.46	135.75	3552.31	3688.063
25C	555,663	2,438,872	185	97.98	212.74	30.97	316.31	4075.06	4391.37
26C	555,155	2,440,121	210	83.235	186.56	27.28	305.03	5340.52	5645.55

NOTES:
1. FOR GENERAL NOTES SEE 10W425-1.

R										
R 0	BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D
INITIAL ISSUE										
REV NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST

SCALE: 1"=100' EXCEPT AS NOTED

YARD

DREDGE CELLS EXISTING / FUTURE CONTOURS AND STAGE C PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14	DATE	36	C	10W425-5	R 0

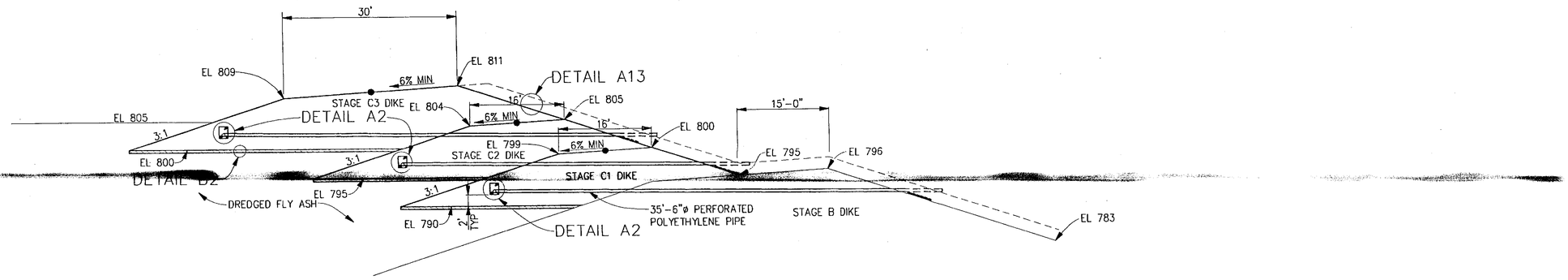
HAROLD L. PETTY REGISTERED ENGINEER No. 13855 STATE OF TENNESSEE
4/6/98

TASK COMPLETED BY:	REV NO.

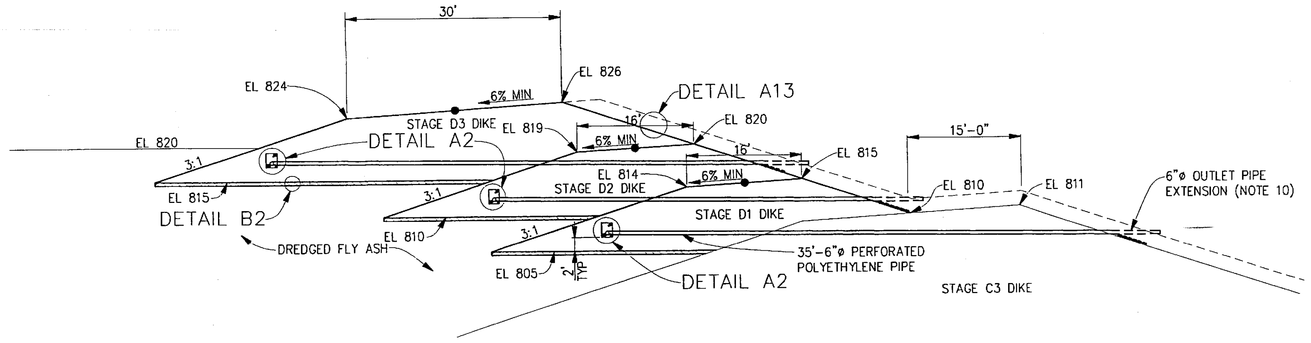
PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

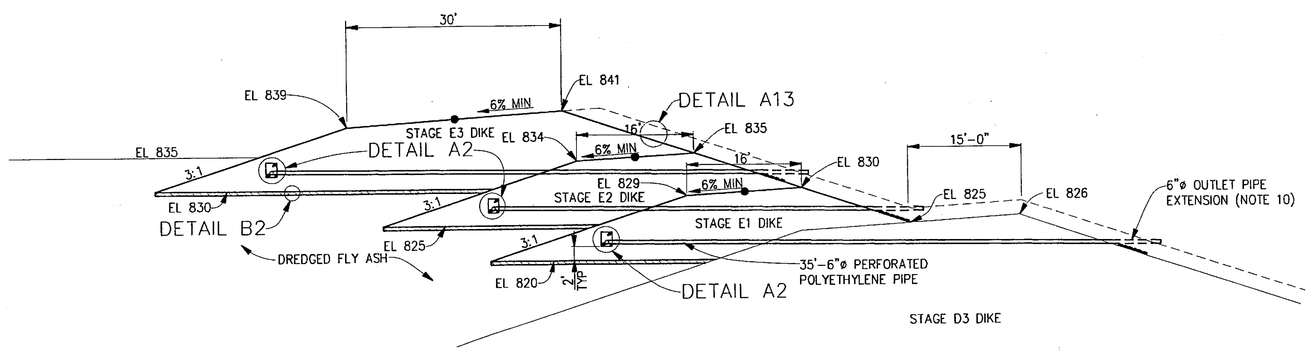
TVA-00017662



TYPICAL SECTION – STAGE C



TYPICAL SECTION – STAGE D



TYPICAL SECTION – STAGE E

NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE T-1 GENERAL CONSTRUCTION SPECIFICATIONS AND THE CLOSURE/POST-CLOSURE PLAN – ASH POND AREA – TVA KINGSTON FOSSIL PLANT, UNLESS OTHERWISE NOTED. SECTION NUMBERS REFER DIRECTLY TO THE T-1 SPECIFICATION.
2. UNDERDRAIN PIPE SHALL BE PERFORATED POLYETHYLENE CORRUGATED TUBING AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., COLUMBUS, OHIO (614) 457-3051 OR EQUAL. UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 500.
3. LATERAL OUTLET PIPE SHALL BE NON-PERFORATED POLYETHYLENE CORRUGATED TUBING AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., COLUMBUS, OHIO (614) 457-3051 OR EQUAL.
4. LATERAL OUTLET PIPES SHALL BE PLACED EVERY 200 FEET ON CENTER BEGINNING AT STATION 2+00 (TOTAL OF 13 FOR STAGE A).
5. FILTER FABRIC SHALL BE TREVIRA SPUNBOUND TYPE 1145 NON-WOVEN GEOTEXTILE OR EQUIVALENT AND SHALL BE INSTALLED ACCORDING TO SECTION 571.
6. INTERMEDIATE COVER SHALL CONSIST OF 9" OF EARTH SUITABLE FOR THE SUPPORT OF VEGETATION. AFTER PLACEMENT OF COVER, AREA SHALL BE SEEDED WITH SECTION 580 TYPE 6, MIX 9 (SPRING) OR TYPE 8, MIX 3 (FALL).
7. THE AREA FOR THE BASE OF THE DIKE IS TO BE CLEARED OF VEGETATION BY SCRAPING THE SURFACE ACCORDING TO SECTION 101.
8. BASE REINFORCEMENT SHALL CONSIST OF TYPE 300ST WOVEN SLIT FILM GEOTEXTILE AS PRODUCED BY SYNTHETIC INDUSTRIES, INC., CHATTANOOGA, TN (800) 621-0444 OR EQUIVALENT PLACED OVER THE DREDGED ASH SURFACE. 12" TO 18" OF BOTTOM ASH IS THEN TO BE BACKFILLED ONTO THE GEOTEXTILE TO PROTECT IT FROM TEARS BY THE HAULING EQUIPMENT.
9. TYPE A RIPRAP SHALL BE 9" THICK. A MINIMUM OF 50%, BY WEIGHT, OF THE STONES SHALL BE 25 LB. EACH AND IN ACCORDANCE WITH SECTION 575.
10. BEFORE FINAL COVER IS PLACED, OUTLET PIPES SHALL BE EXTENDED A MINIMUM OF 6' TO INSURE THAT THE END OF THE PIPE PROTRUDES BEYOND THE FINAL GRADE.
11. TYPE B RIPRAP SHALL BE 18" THICK. A MINIMUM OF 50%, BY WEIGHT, OF THE STONES SHALL BE 100 LB. EACH AND IN ACCORDANCE WITH SECTION 575.

HAROLD L. PETTY REGISTERED ENGINEER No. 078855 STATE OF TENNESSEE

4/6/98

R.O.	BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D
INITIAL ISSUE										
REV. NO	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST

SCALE: 1"=10' EXCEPT AS NOTED

YARD

DREDGE CELLS
TYPICAL SECTIONS
STAGES C, D, & E

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 | DATE | 36 | C | 10W425-6 | R 0

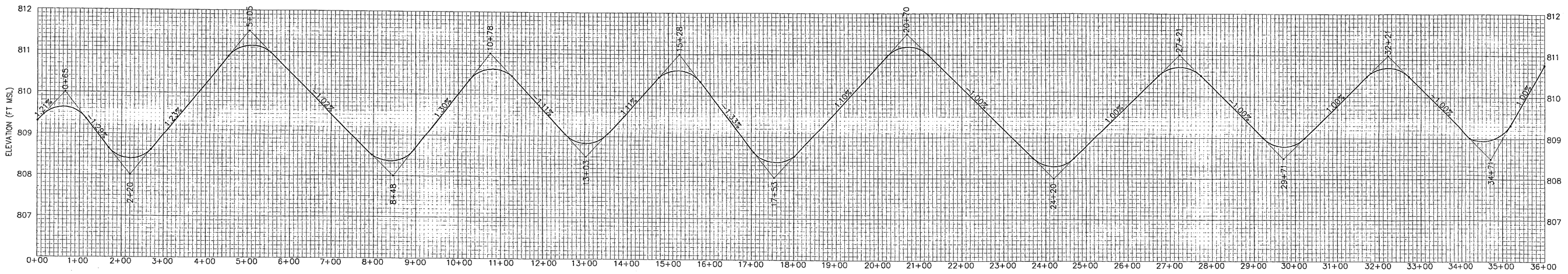
PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

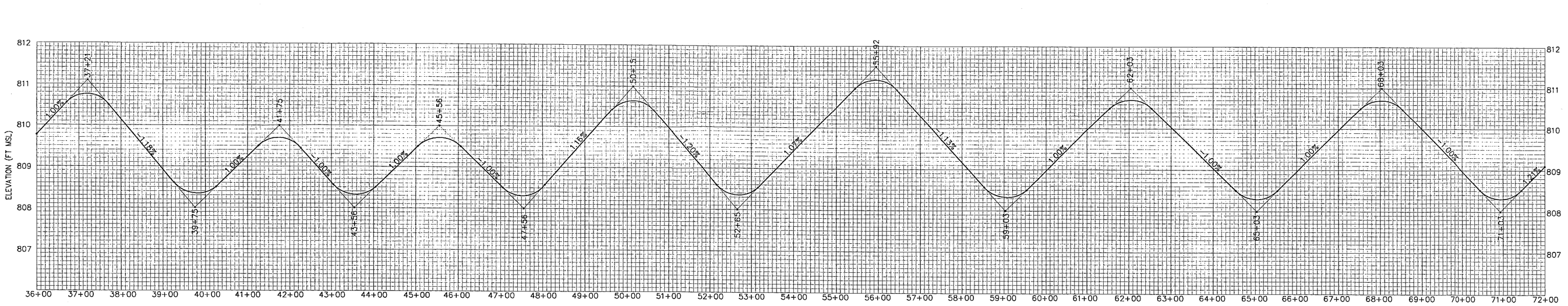
TASK COMPLETED BY: | REV NO.

10W425-6

TVA-00017663



STAGE C3 STATION



STAGE C3 STATION

4/6/98

R												
R 0	BKE/GCL	GCL/GCL	HLP/HLP	KWB	RGJ	WDH	KIF044		D	DISCIPLINE INTERFACE		
INITIAL ISSUE												
REV NO	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV NO	DATE

SCALE: 1"=1' VERT. & 1"=100' HORIZ. EXCEPT AS NOTED

YARD

DREDGE CELLS
STAGE "C" PROFILE

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	H.L.PETTY	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

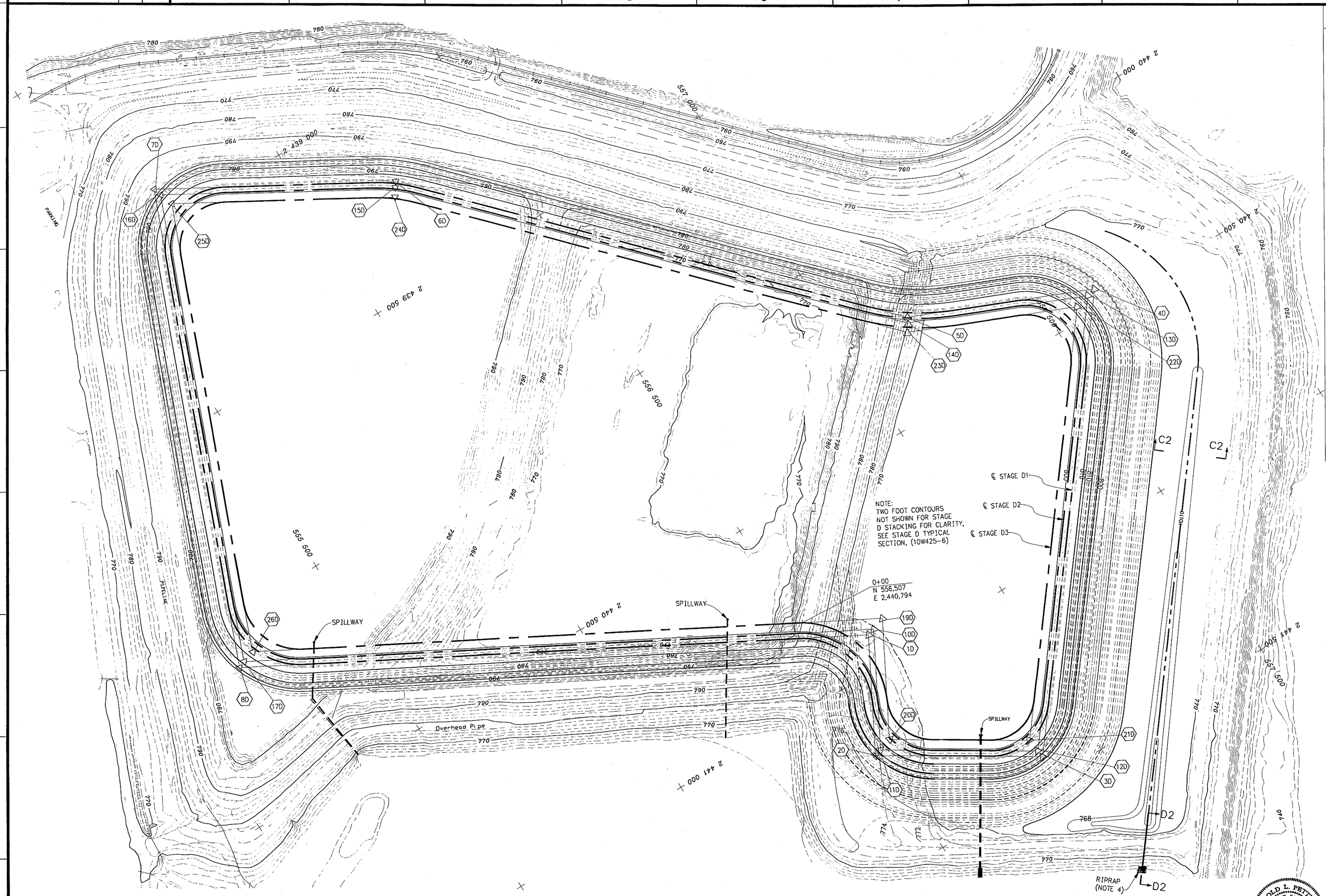
AUTOCAD R14	DATE	36	C	10W425-7	R 0

PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY:	REV NO.

TVA-00017664



P1	Lambert Coordinate North	Lambert Coordinate East	R (ft)	△ (deg)	T (ft)	D	L (ft)	PC (sta)	PT (sta)
1D	556,638	2,440,914	170	90	170	33.70	267.04	0.00	267.04
2D	556,481	2,441,197	160	84.475	145.27	35.81	234.88	271.92	506.8
3D	556,858	2,441,434	160	83.745	143.42	35.81	233.66	657.38	891.04
4D	557,642	2,440,449	160	104.896	208.12	35.81	292.90	1798.63	2091.53
5D	557,178	2,440,246	565	23.399	117.00	10.14	230.49	2273.03	2503.52
6D	556,226	2,439,225	435	16.902	64.63	13.17	128.32	3718.00	3846.32
7D	555,674	2,438,905	160	97.980	183.99	35.81	273.75	4235.58	4509.33
8D	555,185	2,440,111	185	83.235	164.35	30.97	268.58	5462.34	5730.92
10D	556,657	2,440,908	185	90	185.00	30.97	290.60	0	290.60
11D	556,501	2,441,192	145	84.475	131.65	39.51	212.86	298.97	511.83
12D	556,855	2,441,415	145	83.745	129.98	39.51	215.20	668.99	884.19
13D	557,618	2,440,455	145	104.896	188.61	39.51	269.46	1787.37	2056.83
14D	557,171	2,440,260	580	23.399	120.11	9.88	235.78	2236.12	2471.9
15D	556,217	2,439,238	420	16.902	62.4	13.64	124.61	3686.35	3810.96
16D	555,681	2,438,927	145	97.98	166.74	39.51	251.73	4197.96	4449.69
17D	555,203	2,440,103	170	83.235	151.03	33.7	250.17	5398.84	5649.01
19D	556,693	2,440,896	210	90	210.00	27.28	329.87	0	329.87
20D	556,536	2,441,180	120	84.475	108.95	47.75	176.16	336.49	512.65
21D	556,851	2,441,379	120	83.745	107.57	47.75	175.5	669.8	845.3
22D	557,579	2,440,465	120	104.896	156.09	47.75	219.86	1749.8	1969.66
23D	557,157	2,440,281	605	23.399	125.28	9.47	247.22	2148.34	2395.56
24D	556,203	2,439,259	395	16.902	58.69	14.51	115.76	3609.97	3725.73
25D	555,694	2,438,963	120	97.98	138	47.75	205.36	4118.06	4323.42
26D	555,235	2,440,092	145	83.235	128.82	39.51	210.73	5275.09	5485.82

NOTES:
1. FOR GENERAL NOTES SEE 10W425-1.

HAROLD L. PETTY
REGISTERED ENGINEER
No. 019809
STATE OF TENNESSEE
4/6/98

R														
R 0	BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044						D
INITIAL ISSUE														
REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST.				

SCALE: 1"=100' EXCEPT AS NOTED

YARD

DREDGE CELLS
EXISTING / FUTURE CONTOURS AND STAGE D PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 | DATE | 36 | C | 10W425-8 | R 0

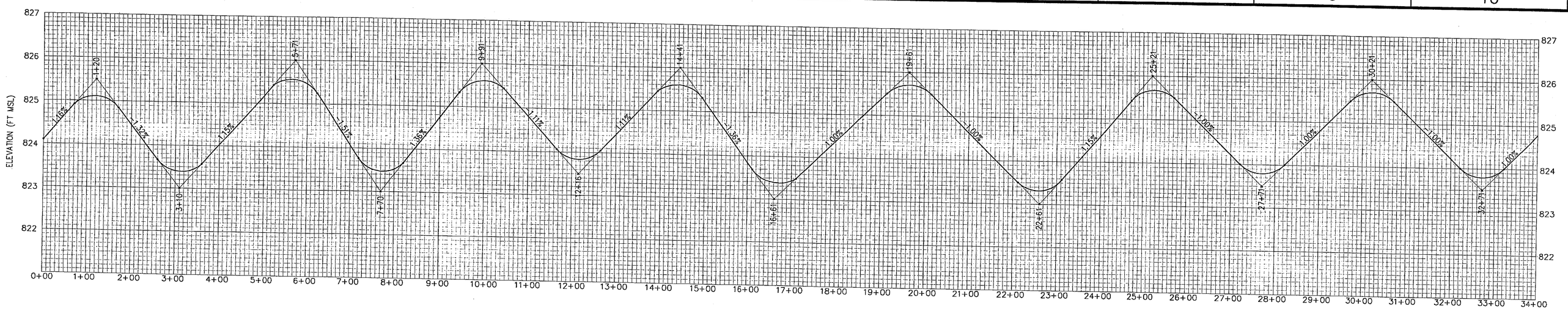
PLOT FACTOR:1=1
W_TVA

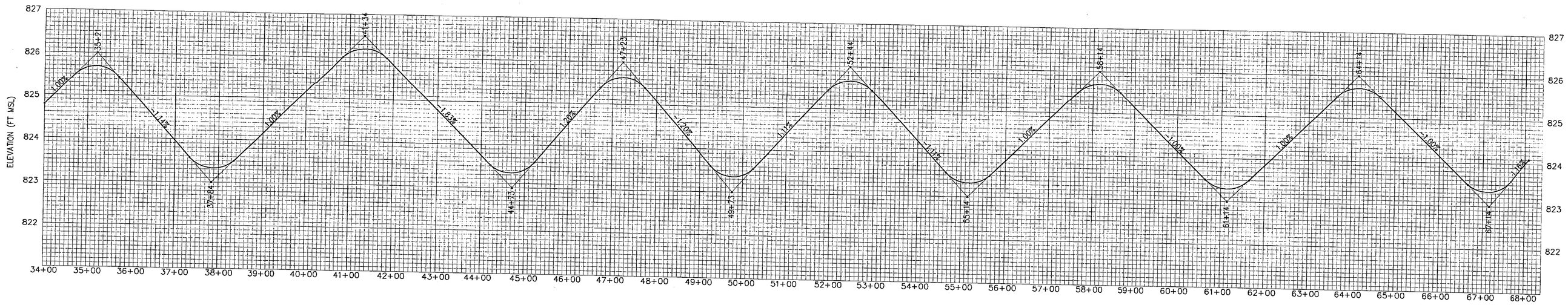
C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: | REV NO.

10W425-9

TVA-00017665





R

R 0 | INITIAL ISSUE | EKEGG GCL | HLP | KWB | RGJ | WDH | KIF044 | D

REV NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ⊙	AS CONST	DISCIPLINE INTERFACE

SCALE: 1"=1' VERT. & 1"=100' HORIZ. EXCEPT AS NOTED

YARD

DREDGE CELLS
STAGE "D" PROFILE

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	H.L.PETTY	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 | DATE | 36 | C | 10W425-9 | R 0

HAROLD L. PETTY REGISTERED ENGINEER STATE OF TENNESSEE
4/6/98

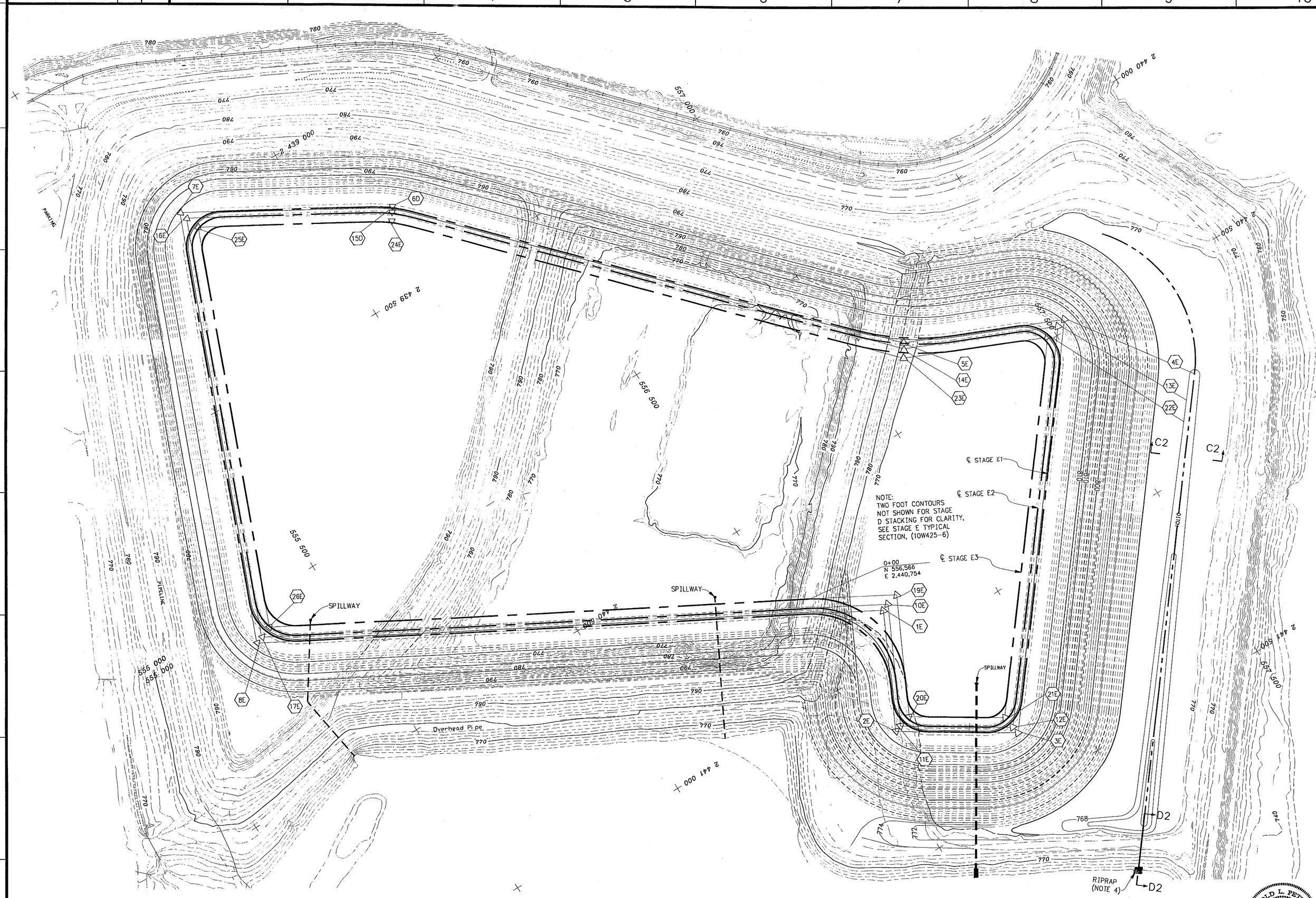
PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: | REV NO.

10W425-8

TVA-00017686



P1	Lambert Coordinate North	Lambert Coordinate East	R (ft)	Δ (deg)	T (ft)	D	L (ft)	PC (sta)	PT (sta)
1E	556,714	2,440,882	210	90	200.49	27.29	320.14	0.00	320.14
2E	556,570	2,441,174	96	84.475	86.25	60.31	139.30	369.19	508.49
3E	556,846	2,441,348	95	83.745	85.16	60.31	138.70	663.97	802.67
4E	557,541	2,440,474	95	104.896	123.57	60.31	173.78	1710.92	1884.7
5E	557,142	2,440,299	630	23.399	130.46	9.09	256.12	2067.16	2323.28
6E	556,190	2,439,279	370	16.902	54.97	15.49	108.49	3534.04	3642.53
7E	555,705	2,438,997	95	97.980	109.25	60.31	162.58	4039.53	4202.11
8E	555,264	2,440,082	120	83.235	106.61	47.75	174.36	5157.27	5331.63
10E	556,734	2,440,875	215	90	205.26	26.65	327.76	0	327.76
11E	556,589	2,441,169	96	84.475	72.64	71.62	117.95	377.6	495.55
12E	556,842	2,441,329	80	83.745	71.71	71.62	117.32	650.38	767.7
13E	557,517	2,440,480	80	104.896	104.06	71.62	146.60	1676.0	1822.6
14E	557,135	2,440,314	645	23.399	133.57	8.88	264.72	2000.6	2265.32
15E	556,183	2,439,293	355	16.902	52.74	16.14	104.18	3474.58	3578.76
16E	555,712	2,439,019	80	97.98	92	71.62	136.94	3979.04	4115.98
17E	555,283	2,440,075	105	83.235	93.28	54.57	152.50	5070.38	5222.88
19E	556,767	2,440,865	240	90	229.13	23.88	365.87	0	365.87
20E	556,622	2,441,159	96	84.475	49.94	104.17	80.65	414.92	495.57
21E	556,837	2,441,295	55	83.745	49.3	104.17	80.42	651.24	731.66
22E	557,477	2,440,490	55	104.896	71.54	104.17	100.68	1639.22	1739.9
23E	557,120	2,440,334	670	23.399	138.74	8.55	273.60	1919.24	2192.84
24E	556,167	2,439,312	330	16.902	49.03	17.36	97.46	3402.41	3499.87
25E	555,725	2,439,056	55	97.98	63.25	104.17	94.00	3898.38	3992.38
26E	555,315	2,440,063	80	83.235	71.07	71.62	116.21	4945.4	5061.61

NOTES:
1. FOR GENERAL NOTES SEE 10W425-1.

R														
R 0	BKE/24	GCL/26	HLP/97	HLP/97	KWB	RGJ	WDH	KIF044						D
INITIAL ISSUE														
REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV. ID			
SCALE: 1"=100'									EXCEPT AS NOTED					

YARD

DREDGE CELLS
EXISTING / FUTURE CONTOURS
AND STAGE E PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

HAROLD L. PETTY
REGISTERED ENGINEER
No. 015658
STATE OF TENNESSEE
4/6/98

AUTOCAD R14 | DATE | 36 | C | 10W425-10 | R 0

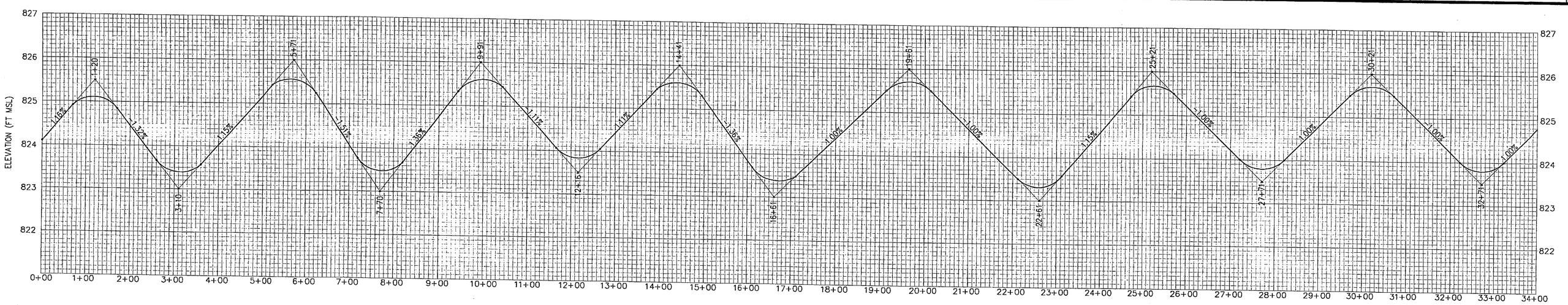
10425-12

TASK COMPLETED BY: | REV NO.

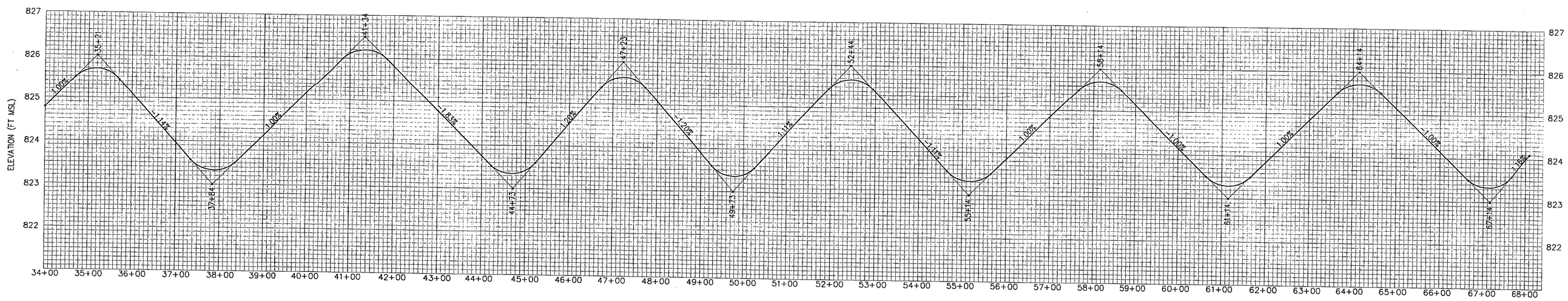
PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

TVA-00017667



STAGE D3 STATION



STAGE D3 STATION

R

R 0	BKE/KWB	GCL	HLP	HLP/KWB	KWB	RGJ	WDH	KIF044	D

INITIAL ISSUE

REV NO	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ENGR	AS CONST	DISCIPLINE INTERFACE

SCALE: 1"=1' VERT. & 1"=100' HORIZ. EXCEPT AS NOTED

YARD

DREDGE CELLS
STAGE "D" PROFILE

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	H.L.PETTY	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

HAROLD L. PETTY REGISTERED ENGINEER STATE OF TENNESSEE 19085

4/6/98

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14	DATE	36	C	10W425-9	R 0

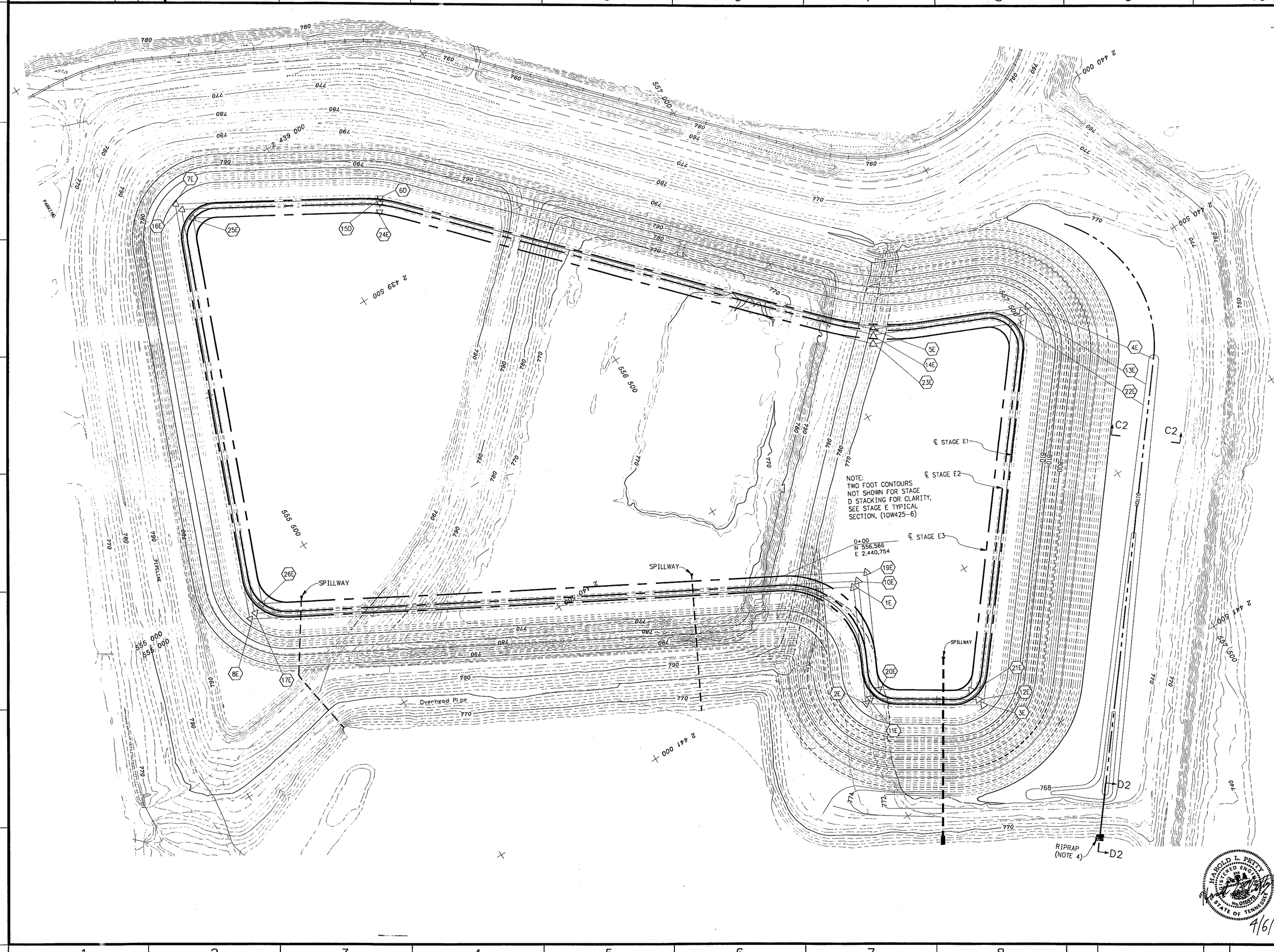
PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: | REV NO.

10W425-8

TVA-00017688



PI	Lambert Coordinate North	Lambert Coordinate East	R (ft)	Δ (deg)	T (ft)	D	L (ft)	PC (sta)	PT (sta)
1E	556,714	2,440,882	210	90	200.49	27.29	320.14	0.00	320.14
2E	556,570	2,441,174	96	84.475	86.25	60.31	139.30	369.19	508.49
3E	556,846	2,441,348	95	83.745	85.16	60.31	138.70	663.97	802.67
4E	557,541	2,440,474	95	104.896	123.57	60.31	173.78	1710.92	1884.7
5E	557,142	2,440,299	630	23.399	130.46	9.09	256.12	2067.16	2323.28
6E	556,190	2,439,279	370	16.902	54.97	15.49	108.49	3534.04	3642.53
7E	555,705	2,438,997	95	97.980	109.25	60.31	162.58	4039.53	4202.11
8E	555,264	2,440,082	120	83.235	106.61	47.75	174.36	5157.27	5331.63
10E	556,734	2,440,875	215	90	205.26	26.65	327.76	0	327.76
11E	556,589	2,441,169	96	84.475	72.64	71.62	117.95	377.6	495.55
12E	556,842	2,441,329	80	83.745	71.71	71.62	117.32	650.38	767.7
13E	557,517	2,440,480	80	104.896	104.06	71.62	146.60	1676.0	1822.6
14E	557,135	2,440,314	645	23.399	133.57	8.88	264.72	2000.6	2265.32
15E	556,183	2,439,293	355	16.902	52.74	16.14	104.18	3474.58	3578.76
16E	555,712	2,439,019	80	97.98	92	71.62	136.94	3979.04	4115.98
17E	555,283	2,440,075	105	83.235	93.28	54.57	152.50	5070.38	5222.88
19E	556,767	2,440,865	240	90	229.13	23.88	365.87	0	365.87
20E	556,622	2,441,159	96	84.475	49.94	104.17	80.65	414.92	495.57
21E	556,837	2,441,295	55	83.745	49.3	104.17	80.42	651.24	731.66
22E	557,477	2,440,490	55	104.896	71.54	104.17	100.68	1639.22	1739.9
23E	557,120	2,440,334	670	23.399	138.74	8.55	273.60	1919.24	2192.84
24E	556,167	2,439,312	330	16.902	49.03	17.36	97.46	3402.41	3499.87
25E	555,725	2,439,056	55	97.98	63.25	104.17	94.00	3898.38	3992.38
26E	555,315	2,440,063	80	83.235	71.07	71.62	116.21	4945.4	5061.61

NOTES:
1. FOR GENERAL NOTES SEE 10W425-1.

R													
R 0	BKE/14	GCL/20	HLP/4	HLP/4	KWB	RGJ	WDH	KIF044		D	DISCIPLINE INTERFACE		
INITIAL ISSUE													
REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV. CV		
SCALE: 1"=100'									EXCEPT AS NOTED				

YARD

DREDGE CELLS EXISTING / FUTURE CONTOURS AND STAGE E PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

HAROLD L. PETTY REGISTERED ENGINEER No. 09855 STATE OF TENNESSEE
4/6/98

AUTOCAD R14	DATE	36	C	10W425-10	R 0

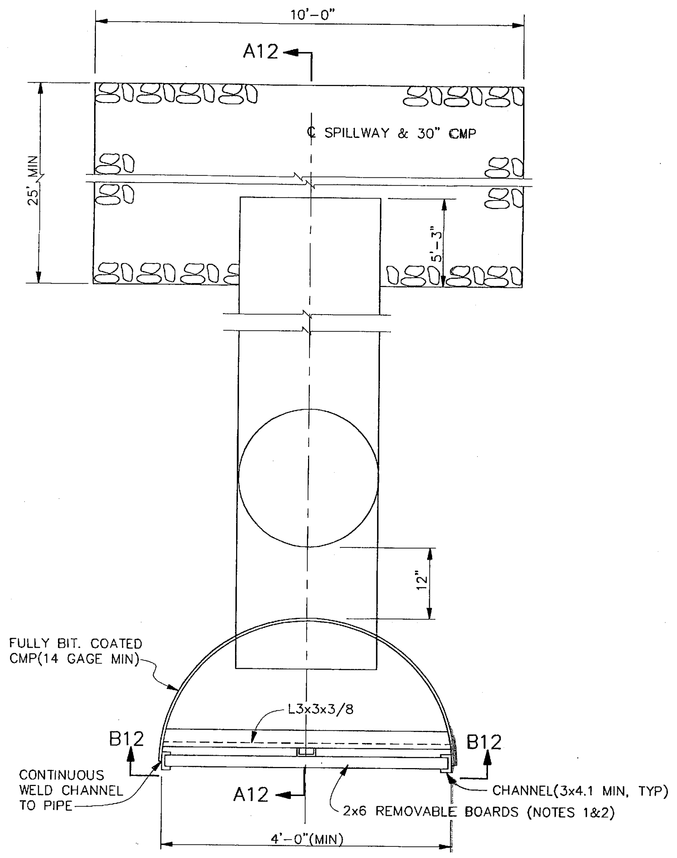
PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

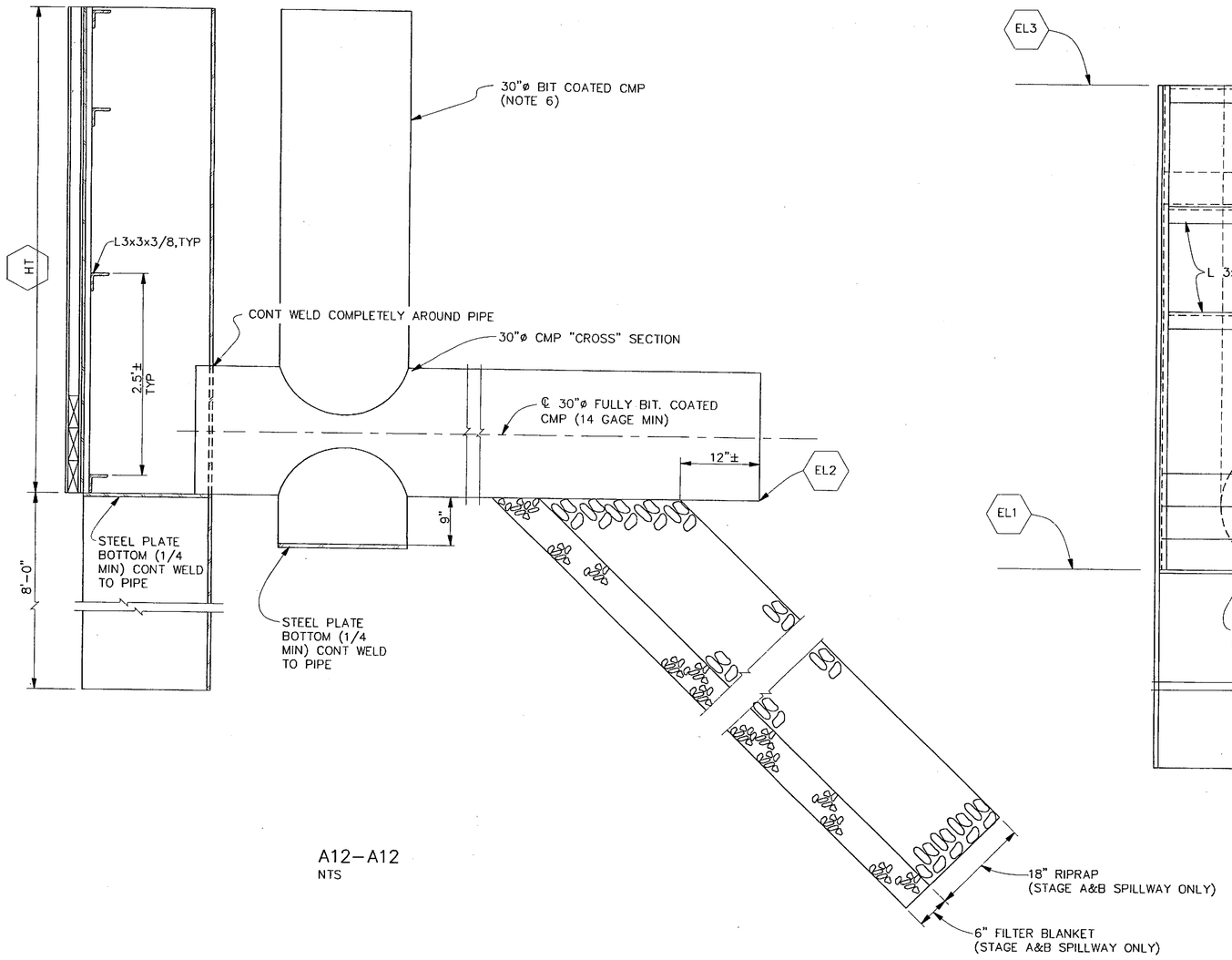
10425-12

TASK COMPLETED BY: | REV NO.

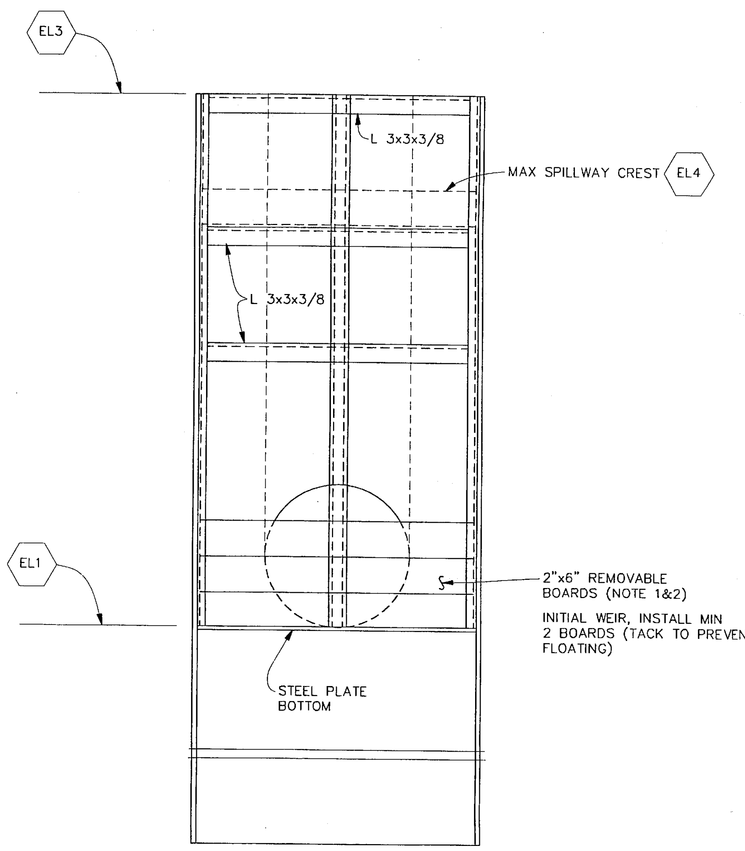
TVA-00017669



PLAN-METAL SPILLWAY
NTS



A12-A12
NTS

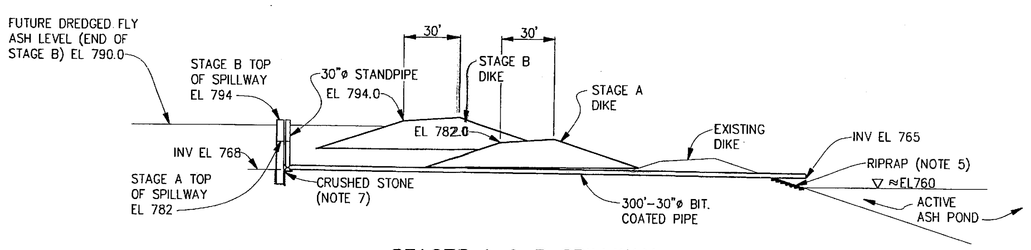


B12-B12
NTS

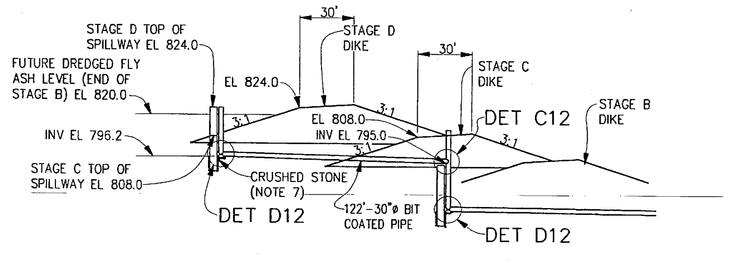
NOTES:
1. ALL TIMBER SHALL BE SOUTHERN PINE NO. 2 DENSE SELECT TIMBER.
2. ALL WOOD SHALL BE PRESSURE TREATED WITH 0.4-0.6 POUNDS OF PRESERVATIVE PER CUBIC FOOT OF WOOD. THE PRESERVATIVE SHALL BE WOLMAN PRESERVATIVE CCA BY KOPPERS OR EQUAL.
3. ALL NAILS SHALL BE GALVANIZED.
4. 30 INCH CORRUGATED METAL PIPE SHALL BE FULLY BITUMINOUS COATED AND 14 GAGE (MIN) THICKNESS.
5. RIPRAP SHALL CONSIST OF 50% OF THE STONES WEIGHING 100 LBS EACH OR GREATER, PER SECTION 575.
6. 30 INCH CROSS SECTION AND STANDPIPE NOT REQUIRED FOR STAGE E SPILLWAY.
7. A 6' x 6' HOLE SHALL BE EXCAVATED TO A DEPTH OF 8' FOR PLACEMENT OF THE 48" HALF-PIPE, THE AREA IS TO BE BACKFILLED WITH 1032 CRUSHED STONE AND COMPACTED UNTIL A STABLE BASE IS ACHIEVED.

DIMENSION	STAGE				
	A	B	C	D	E
EL1	768.0	768.0	796.2	796.2	825.5
EL2	765.0	765.0	795.0	795.0	825.0
EL3	782.0	794.0	808.0	824.0	840.0
EL4	780.0	792.0	806.0	822.0	838.0
HT	14.0'	26.0'	11.8'	27.8'	14.5'

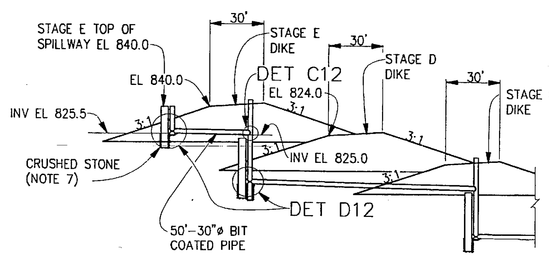
ITEM	A	B	STAGE C	D	E	UNIT
CHANNEL (C3X4.1 MIN)	42	36	36	48	44	LF
ANGLE (L3X3X3/4 MIN)	20	16	16	24	20	LF
STEEL PLATE (1/4" MIN)	114	---	114	---	114	LB
48" DIA. CMP	11	6	10	8	12	LF
30" DIA. CMP CROSS SECT	1	---	1	---	1	EA
30" DIA. CMP TEE SECT.	---	---	1	---	1	EA
30" DIA. CMP	312	12	134	16	62	LF
2" X 6" BOARD	96	96	80	128	96	LF



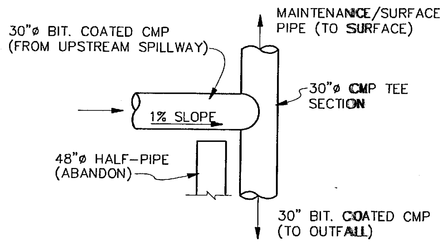
STAGES A & B SPILLWAY



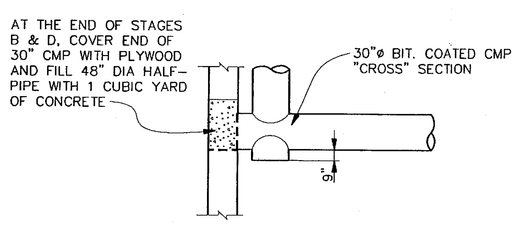
STAGES C & D SPILLWAY



STAGE E SPILLWAY



DETAIL C12
SPILLWAY CONNECTION
1"=5'



DETAIL D12
BOTTOM OF SPILLWAY
1"=5'

HAROLD L. PETTY REGISTERED ENGINEER No. 019855 STATE OF TENNESSEE
4/6/98

REV NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	ISSUE ID
R											
R 0		BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D
INITIAL ISSUE											

SCALE: 1"=40' EXCEPT AS NOTED

YARD

DREDGE CELLS
SPILLWAY / SKIMMER DETAILS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

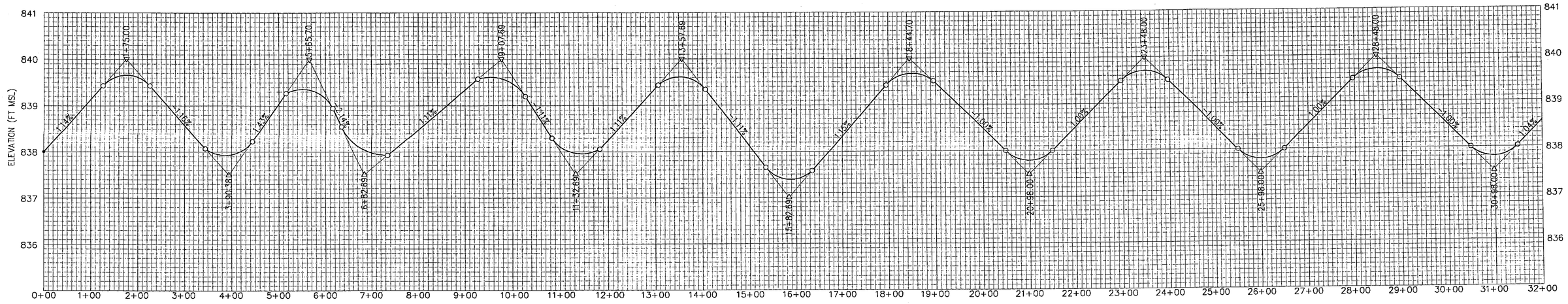
AUTOCAD R14	DATE	36	C	10W425-12	R 0

PLOT FACTOR:1=1 W_TVA

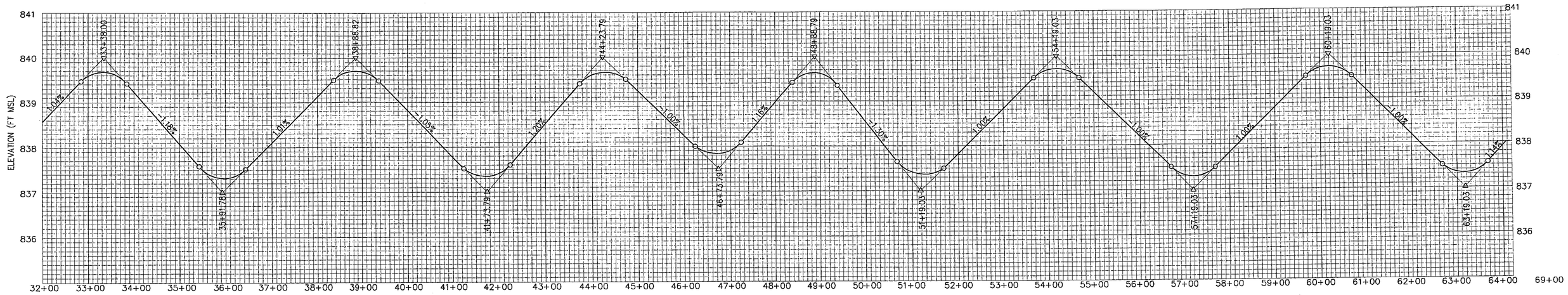
C.A.D. DRAWING DO NOT ALTER MANUALLY

TASK COMPLETED BY: | REV NO.

TVA-00017670



STAGE E3 STATION



STAGE E3 STATION

R											
R 0		BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D
INITIAL ISSUE											
REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD

SCALE: 1"=1' VERT. & 1"=100' HORIZ. EXCEPT AS NOTED

YARD

DREDGE CELLS
STAGE "E" PROFILE

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	H.L.PETTY	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14	DATE	36	C	10W425-11	R 0

PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

HAROLD L. PETTY
REGISTERED ENGINEER
No. 015578
STATE OF TENNESSEE

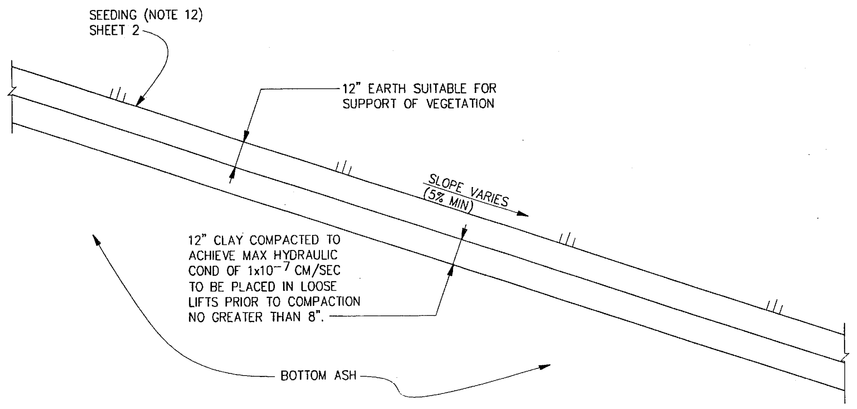
4/6/98

TASK COMPLETED BY: REV NO.

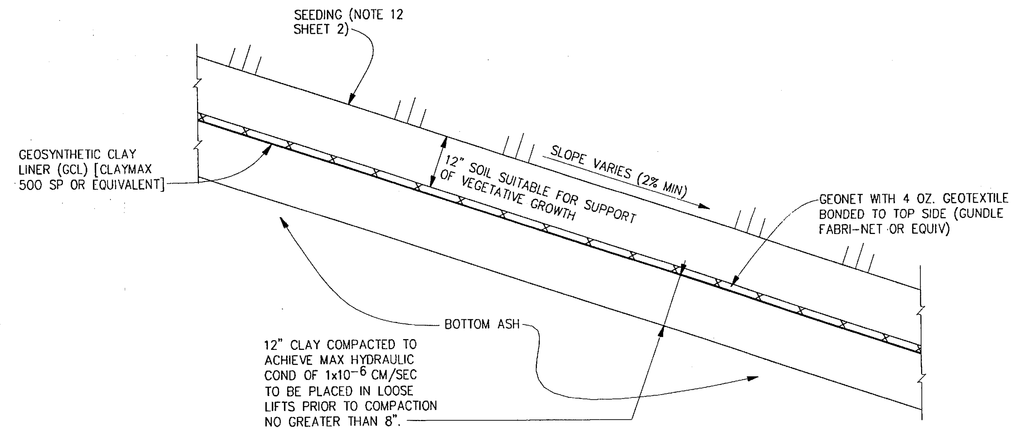
10425-10

36 C 10W425-11

TVA-00017671



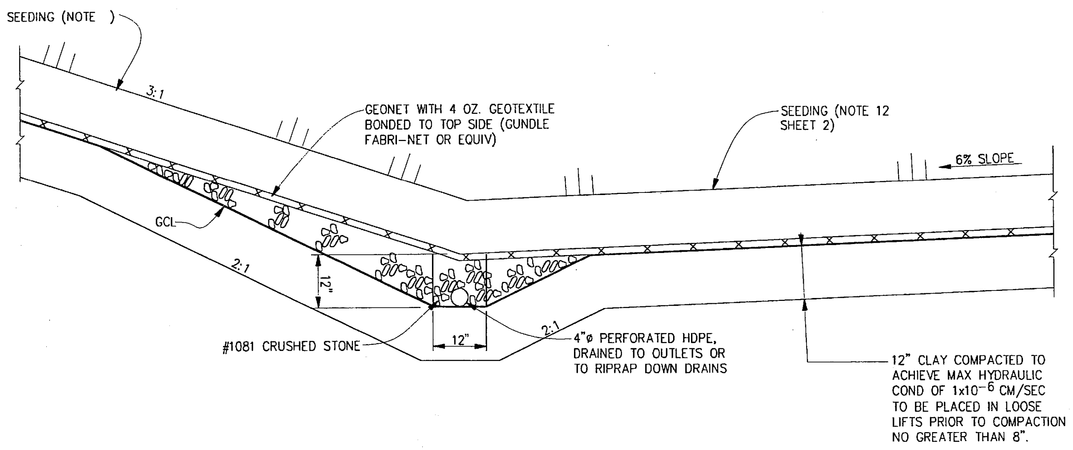
OPTION 1



OPTION 2
3/4" = 1'-0"

DETAIL A13

STAGE	INTERMEDIATE EARTH COVER (CY)	FINAL CLAY COVER (CY)	FINAL EARTH COVER (CY)
A	4,200	29,700	31,100
B	5,050	7,450	6,650
C	13,900	20,700	18,500
D	13,500	20,200	18,100
E	12,800	19,000	17,000
TOP	55,700	83,000	74,300
TOTAL	105,150	180,050	165,650



TYPICAL BERM DITCH CROSS SECTION
FOR OPTION 2 COVER
3/4" = 1'-0"

NOTES:
1. FOR NOTES SEE 10W425-2.

KIF DREDGE CELL
CHRONOLOGY FOR DIKE CONSTRUCTION
AND DREDGING

YEAR	BOT. ASH PROD. (CY)	DIKE STAGE	B. A. REQD FOR DIKE (CY)	YEAR	FLY ASH PROD. (CY)	DREDGE STAGE	VOL. AVAIL. FOR F. A. (CY)
Present	131,000	A	135,000	Present	281,823	CELLS 1&3	531,600
1996	70,864	A	4,000	1996	291,557	A	332,300
		B	160,000				
1997	70,176	B	93,136	1997	288,724	A	290,520
1998	71,535	B	22,960	1998	294,317	B	356,800
		C1	101,752				
1999	71,482	C1	53,177	1999	294,099	B	64,279
		C2	99,761	2000	290,830	C1	587,497
2000	70,688	C2	81,456				
2001	69,858	C2	10,678	2001	287,416	C1	66,847
		C3	156,652	2002	297,295	C2	565,065
2002	72,259	C3	97,562				
2003	72,347	C3	25,303	2003	297,658	C2	47,201
		D1	96,312	2004	297,222	C3	517,696
2004	72,241	D1	49,268			D1	495,131
		D2	94,385				
2005	72,771	D2	71,412	2005	299,401	D1	465,148
		D3	147,958	2006	303,905	D2	466,758
2006	73,866	D3	146,599				
2007	74,431	D3	72,733	2007	306,229	D2	328,600
		E1	90,859	2008	311,459	D3	429,137
2008	75,702	E1	89,161				
2009	74,625	E1	13,459	2009	307,028	D3	140,049
		E2	88,955	2010	307,246	E1	407,978
2010	74,678	E2	27,789			E2	381,426
		E3	139,285				
2011	74,678	E3	92,396	2011	307,246	E2	315,179
2012	74,678	E3	17,718	2012	307,246	E3	345,826
		STORE*	56,960				
2013	74,678	STORE*	74,678	2013	307,246	E3	46,513
2014	74,678	STORE*	74,678	2014	307,246	STORE*	567,979
TOTAL TO BE STORED			206,316				567,979

* EXCESS ASH TO BE DREDGED/SLUICED INTO A FUTURE ADJACENT CELL AND DRIED FOR STACKING ON TOP OF THE DREDGE CELLS. CELLS WILL BE CAPPED AT END OF FISCAL YEAR 2014.

NOTE: PRODUCTION OF BOTTOM ASH AND FLY ASH ARE BASED ON ESTIMATES PROVIDED BY TVA FOSSIL FUELS.

DIKE CONSTRUCTION/DREDGE OPERATIONS SEQUENCE

DIKE CONSTRUCTION
(BOTTOM ASH)

LIFTS BY LAYER DESIGNATION:

A B	B	B C1	C1 C2	C2	C2 C3	C3	C3 D1	D1 D2	D2 D3	D3	D3 E1	E1	E1 E2	E2 E3	E3	E3	STORE	STORE

1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015

CELLS 1&3 A	A B	B C1	C1 C2	C2 C3 D1	D1 D2	D2 D3	D3 E1 E2	E2 E3	E3 STORE

DREDGE OPERATIONS
(FLY ASH)

4/6/98

R															
R 0		BKE	GCL	BKE	HLP	KWB	RGJ	WDH	KIF044						D
INITIAL ISSUE															
REV NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD				

SCALE: 3/8" = 1'-0" EXCEPT AS NOTED

YARD

DREDGE CELLS COVER DETAILS AND SCHEDULE

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14	DATE	36	C	10W425-13	R 0

PLOT FACTOR:1=1
W_TVA

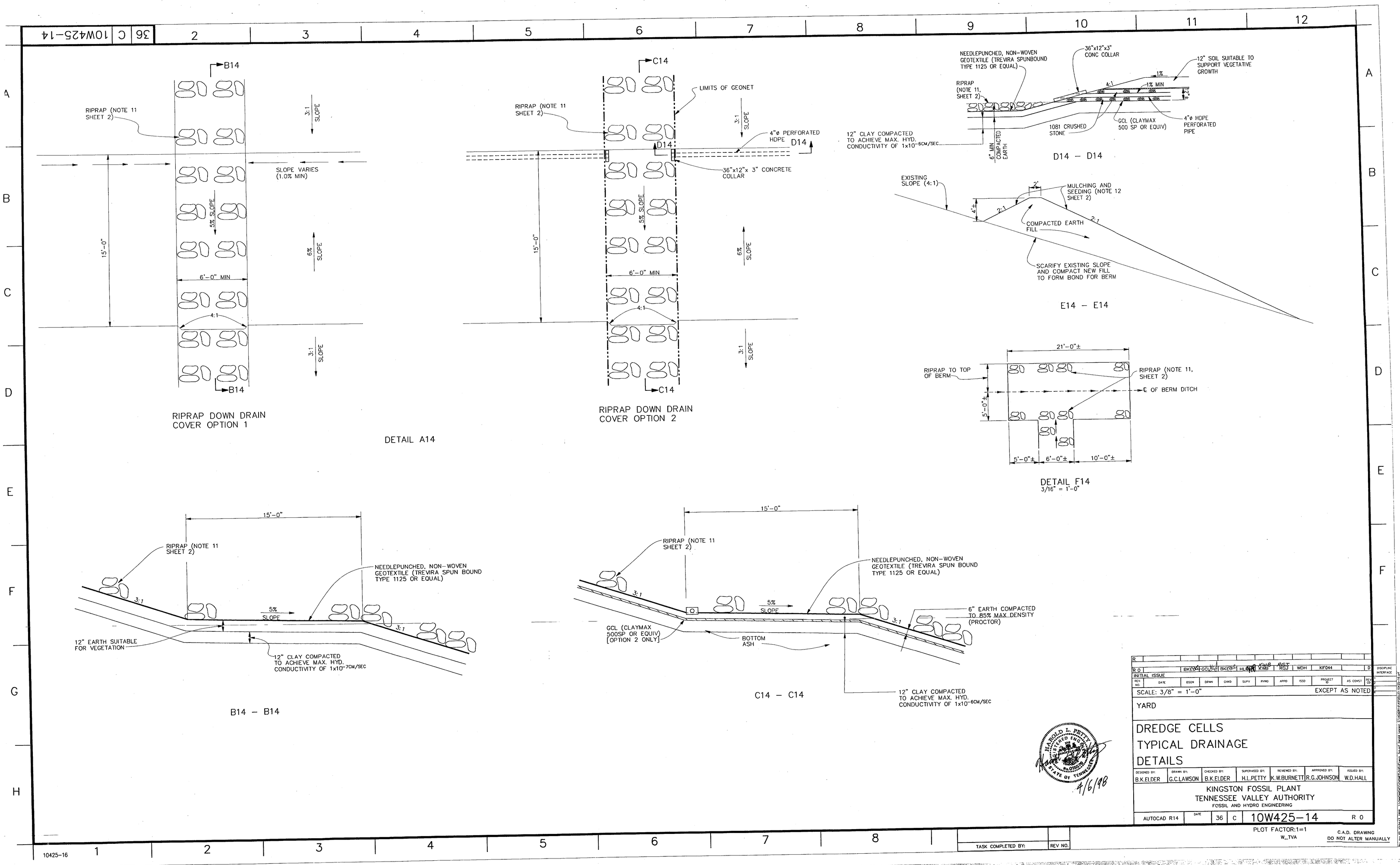
C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: | REV NO.

10425-15

\\CIVIL\ENGINEER\CIVILDATA\Projects\10425\10425-15.dgn 10-Jul-02 13:53:58 1998

TVA-00017677



REV NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD
R											
R 0		BKE	GCL	BKE	HLP	KWB	RGJ	WDH	KIF044		D
INITIAL ISSUE											

SCALE: 3/8" = 1'-0" EXCEPT AS NOTED

YARD

DREDGE CELLS TYPICAL DRAINAGE DETAILS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 | DATE | 36 | C | 10W425-14 | R 0

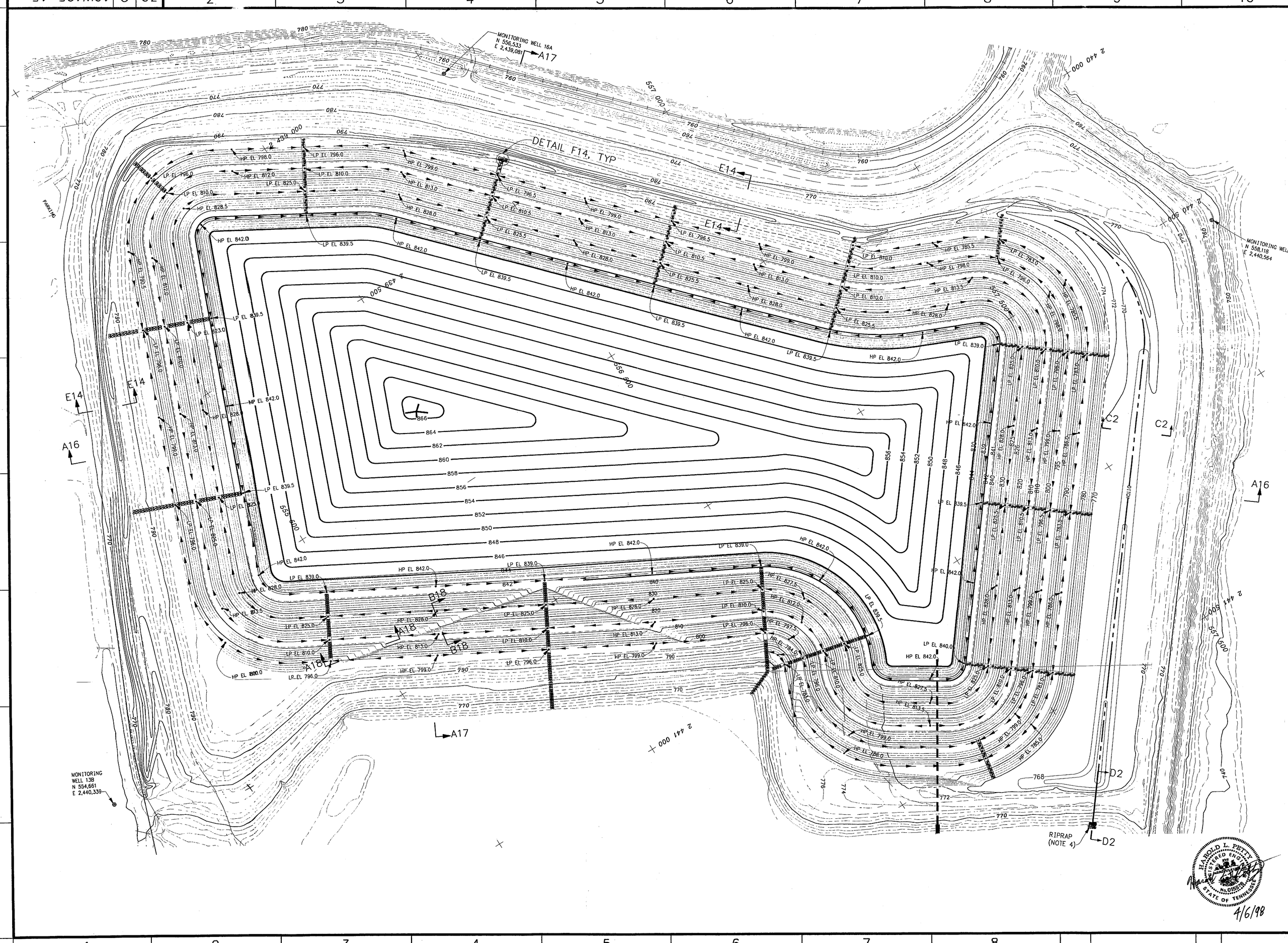
PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING DO NOT ALTER MANUALLY

TASK COMPLETED BY: | REV NO.

10425-16

TVA-00017673



LIMITS OF FINAL COVER

NOTES:
1. FOR GENERAL NOTES SEE 10W425-1.

REV NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD
R											
R 0		BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D

INITIAL ISSUE

SCALE: 1"=100' EXCEPT AS NOTED

YARD

DREDGE CELLS FINAL CLOSURE CONTOURS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	B.K.ELDER	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 | DATE | 36 | C | 10W425-15 | R 0

PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: | REV NO.

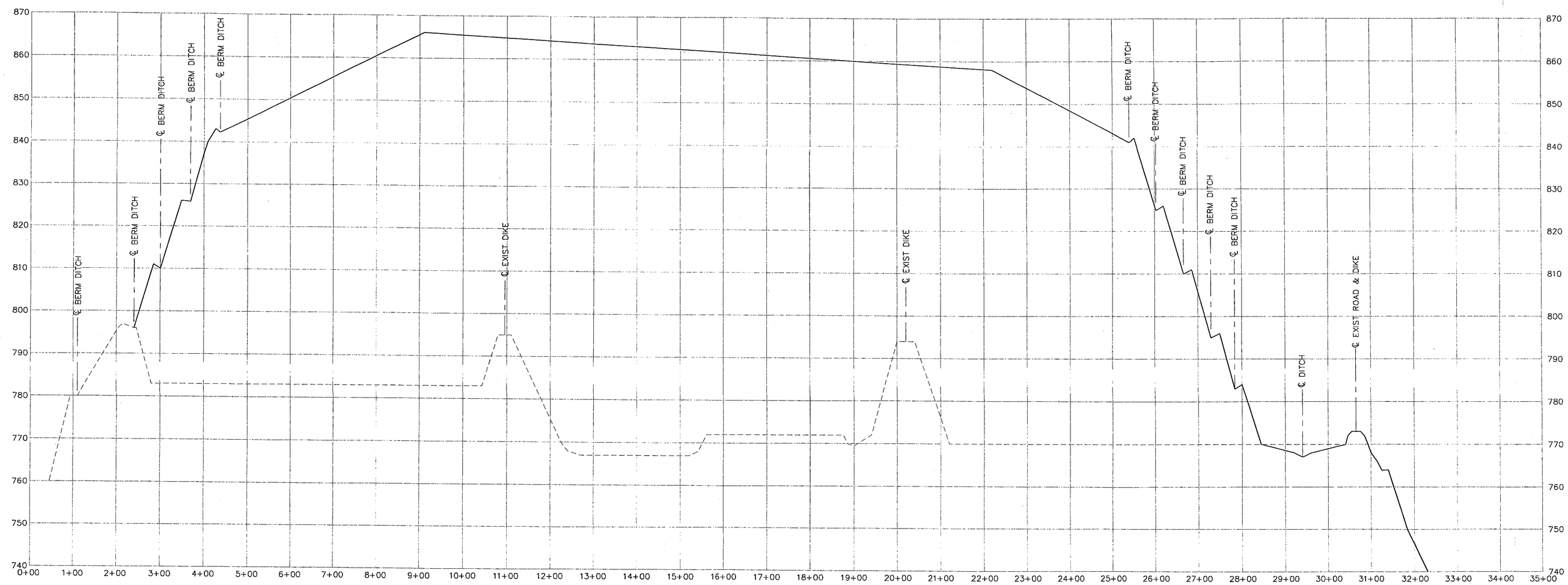
HAROLD L. PETTY
REGISTERED ENGINEER
No. 015570
STATE OF TENNESSEE

4/6/98

36 C 10W425-15

10425-17

TVA-00017674



A16 – A16
1"=100' HORIZ
1"=10' VERT

R												
R 0	BKE04 GCL/	HLP/KWB	HLP/KWB	KWB	RGJ	WDH	KIF044					D
INITIAL ISSUE												DISCIPLINE INTERFACE
REV NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV NO.	C
SCALE: AS NOTED									EXCEPT AS NOTED			B
												A

YARD

DREDGE CELLS
CROSS-SECTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	H.L.PETTY	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14	DATE	36	C	10W425-16	R 0

HAROLD L. PETTY REGISTERED ENGINEER No. 10855 STATE OF TENNESSEE
4/6/98

PLOT FACTOR:1=1
W_TVA

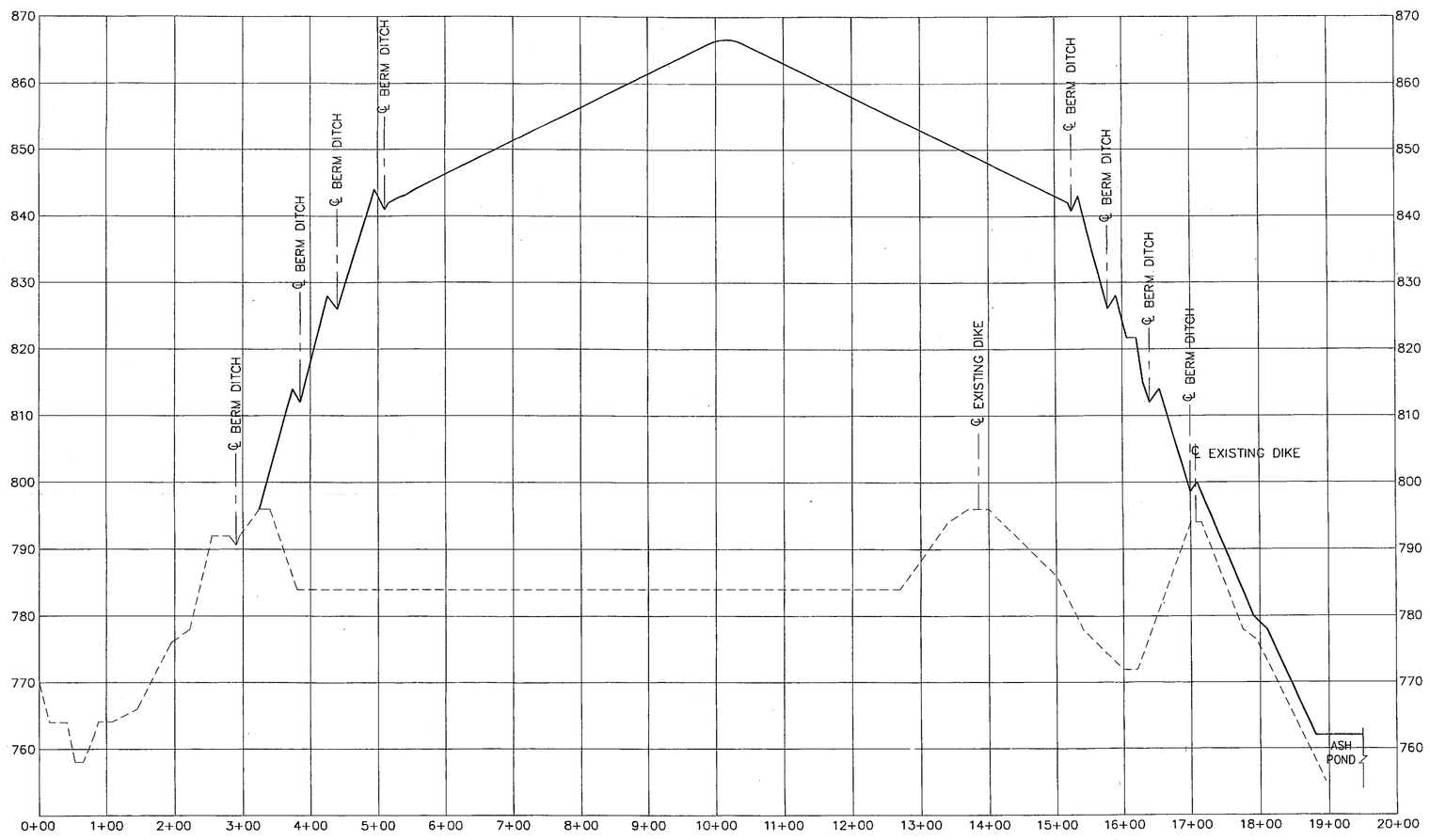
C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY:	REV NO.

10426-18

\\DSDWNT\COMPRESS\work files\Dwg Lawson\10W425-16.dgn

TVA-00017675



A17 – A17
1"=100' HORIZ
1"=10' VERT

R											
R 0		BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D
INITIAL ISSUE											
REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD

SCALE: AS NOTED EXCEPT AS NOTED

YARD

DREDGE CELLS
CROSS-SECTION

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	H.L.PETTY	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14	DATE	36	C	10W425-17	R 0

PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

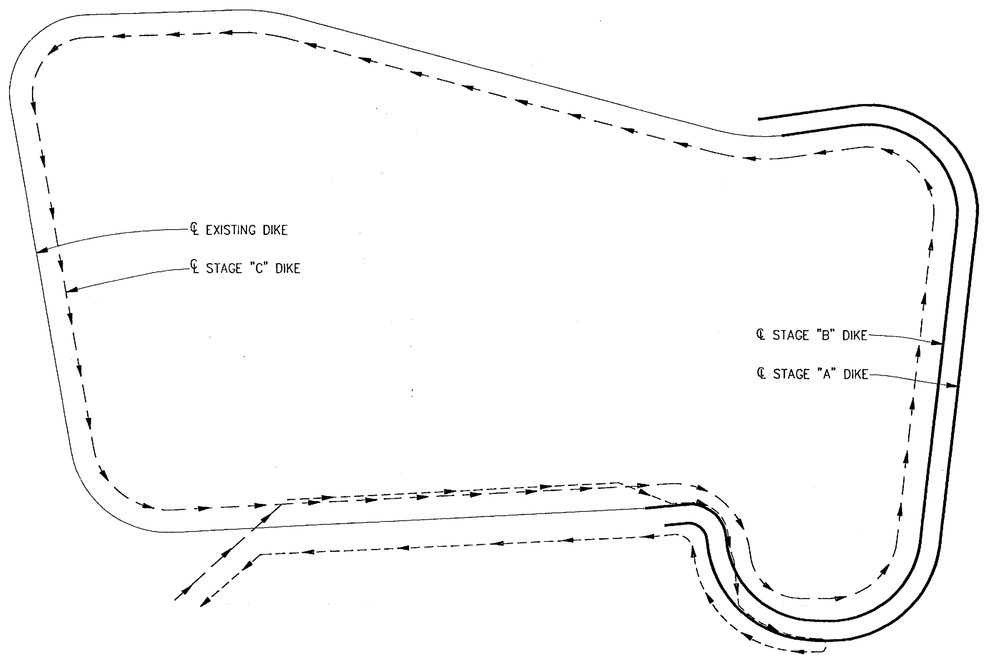
HAROLD L. PETTY
REGISTERED ENGINEER
No. 015676
STATE OF TENNESSEE
4/6/98

TASK COMPLETED BY: REV NO.

10425-19

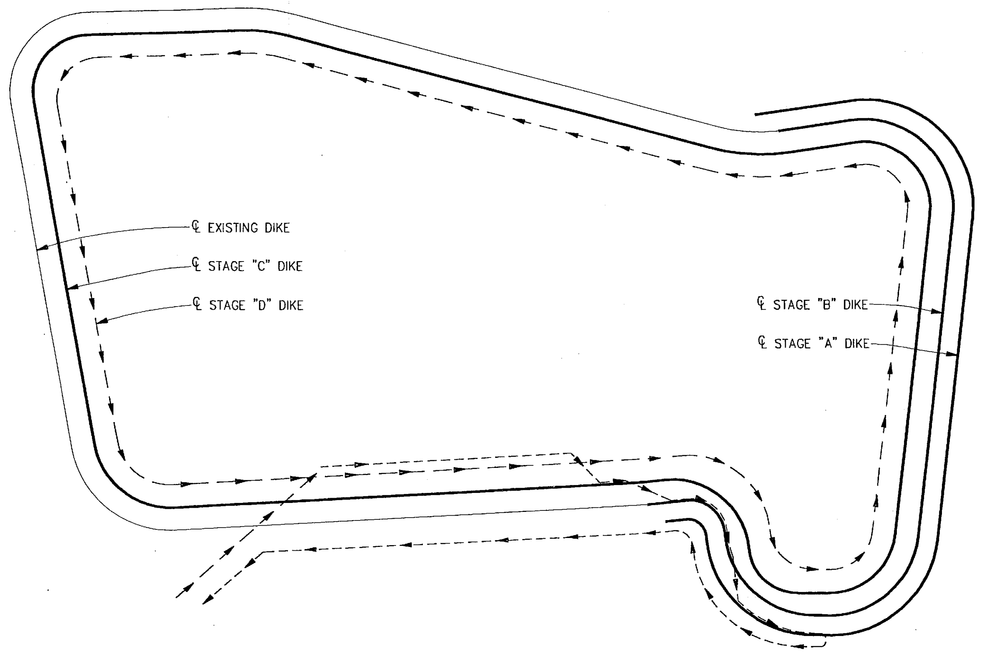
36 C 10W425-17

TVA-00017676



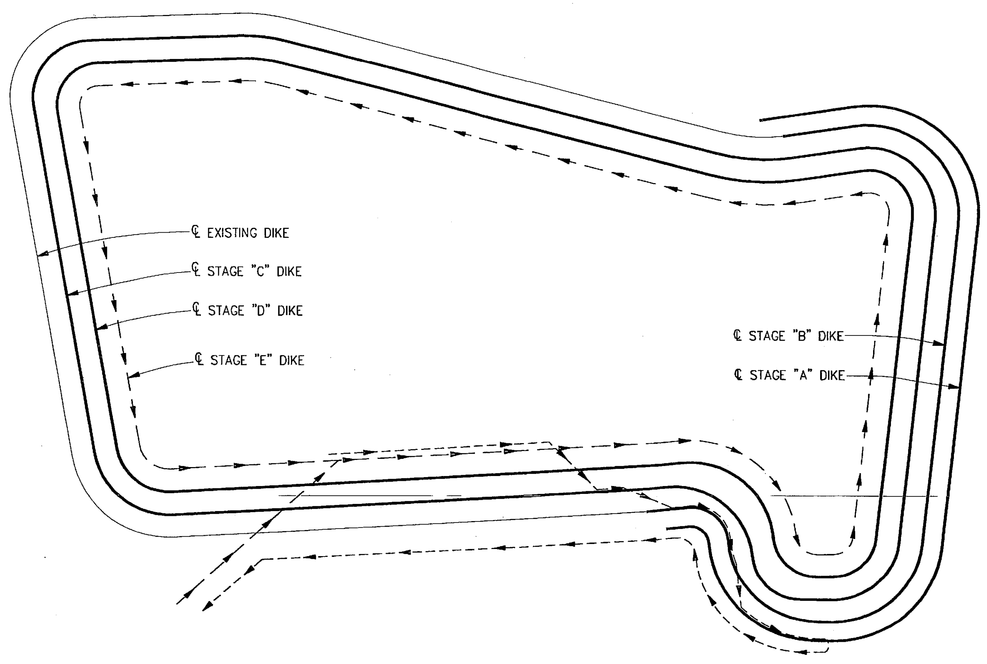
PLAN – STAGE "C"

RETURN (EMPTY) ROUTE
DELIVERY (FULL) ROUTE



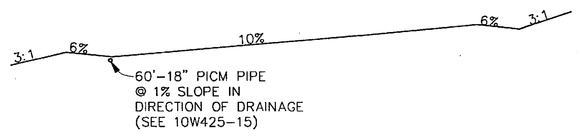
PLAN – STAGE "D"

RETURN (EMPTY) ROUTE
DELIVERY (FULL) ROUTE

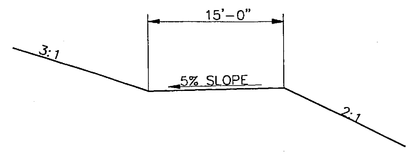


PLAN – STAGE "E"

RETURN (EMPTY) ROUTE
DELIVERY (FULL) ROUTE



A18 – A18
NTS



B18 – B18
NTS

REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD
R											
R 0		BKE	GCL	HLP	HLP	KWB	RGJ	WDH	KIF044		D

INITIAL ISSUE

SCALE: 1"=200' EXCEPT AS NOTED

YARD

DREDGE CELLS EQUIPMENT ROUTING AND HAUL ROAD DETAILS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
B.K.ELDER	G.C.LAWSON	H.L.PETTY	H.L.PETTY	K.W.BURNETT	R.G.JOHNSON	W.D.HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 | DATE | 36 | C | 10W425-18 | R 0

PLOT FACTOR:1=1
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

HAROLD L. PETTY REGISTERED ENGINEER STATE OF TENNESSEE

4/6/98

TASK COMPLETED BY: | REV NO.

10425-20

36 C 10W425-18

TVA-00017677