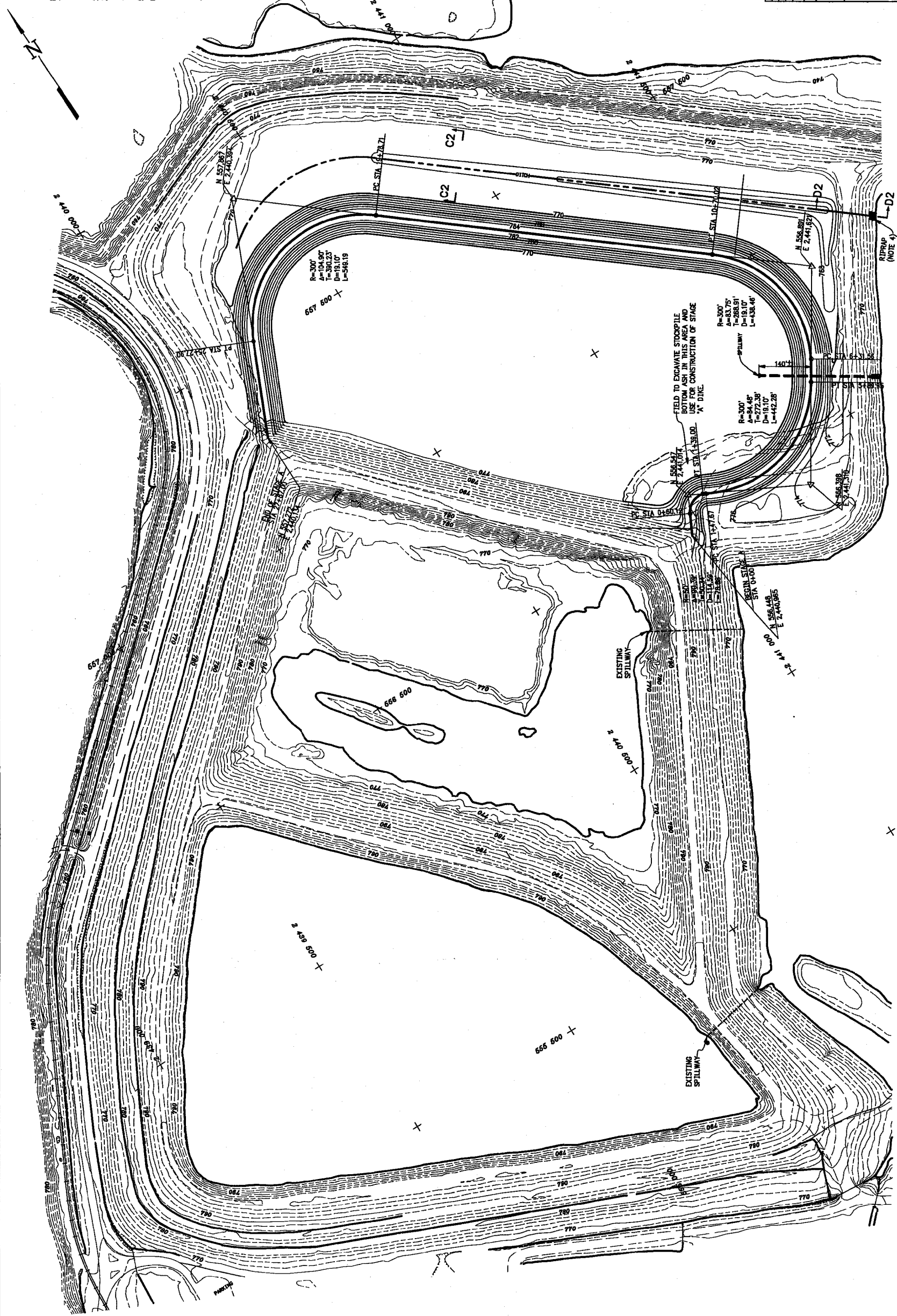
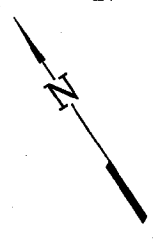


12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F

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 IMPROVED 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.



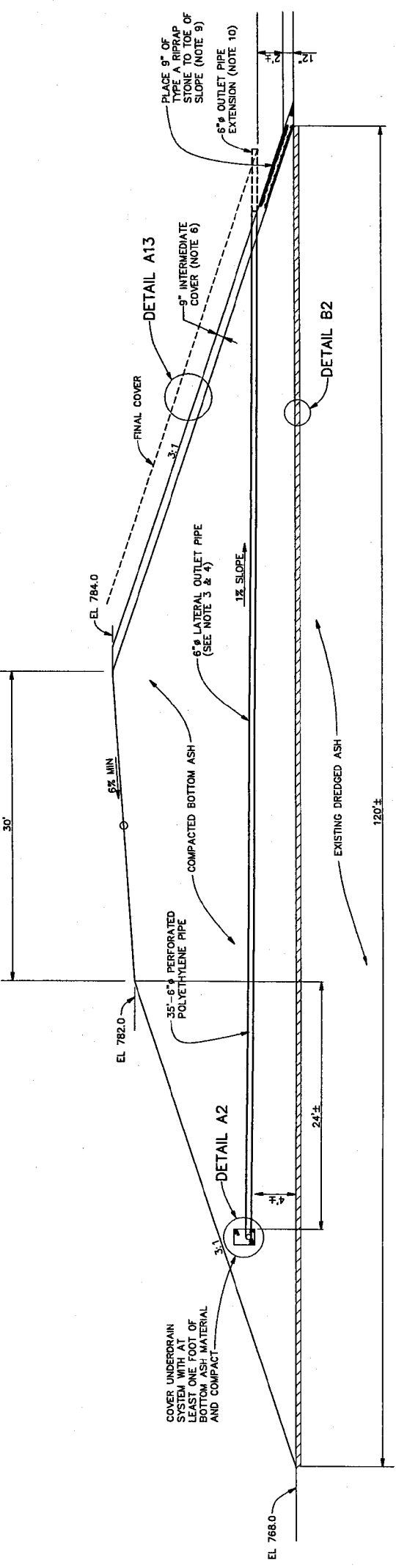
DATE	BY	CHKD	APP'D	DATE	BY	CHKD	APP'D
10/18/88	G. CLAWSON	H. PEITY	K. BURNETT	10/18/88	R. G. JOHNSON	W. D. HALL	
DRAWN BY: G. CLAWSON				CHECKED BY: H. PEITY			
DESIGNED BY: H. PEITY				APPROVED BY: K. BURNETT			
KINGSTON FOSSIL PLANT TENNESSEE VALLEY AUTHORITY FOSSIL AND HYDRO ENGINEERING							
AUTOCAD R12				SCALE: 1" = 100'			
YARD				EXCEPT AS NOTED			
DREDGE CELLS EXISTING CONTOURS AND STAGE A PLAN							
PLOT FACTOR: 1.1				R. O.			
W. TVA				DO NOT ALTER MANUALLY			

36 C 10W425-1

10W425-1

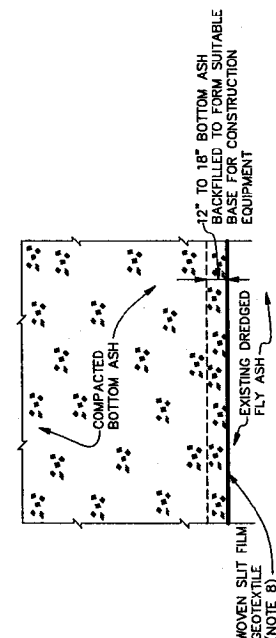
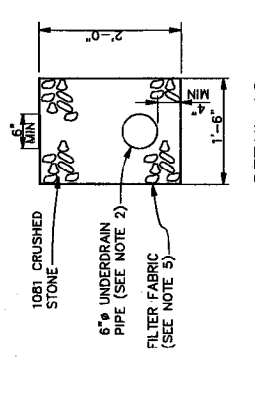
TASK COMPLETED BY: REV. NO.

8 7 6 5 4 3 2 1



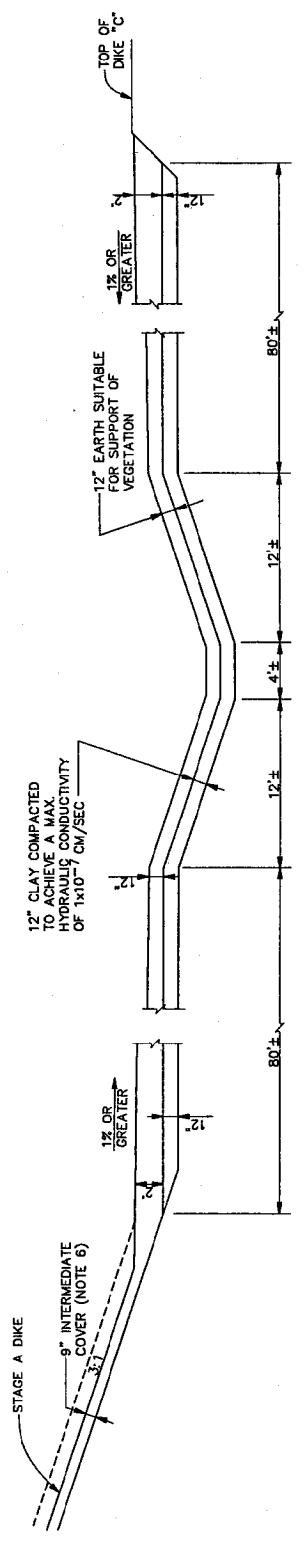
NOTES:

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) 457-3939 OR EQUIVALENT. 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) 457-3931 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 TREWIRA SPUNBOND TYPE 1135 NON-WOVEN GEOTEXTILE OR EQUIVALENT AND SHALL BE INSTALLED ACCORDING TO SECTION 571.
6. INTERMEDIATE COVER SHALL BE PLACED INCREMENTALLY AND CONSIDERATION SHALL BE GIVEN TO THE SUPPORT OF VEGETATION. AFTER PLACEMENT OF COVER, AREA SHALL BE SEDED 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 SUT 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 50K 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 50K BY WEIGHT, OF THE STONES SHALL BE 100 LB EACH AND IN ACCORDANCE WITH SECTION 575.
12. AREAS OF FINAL EARTH COVER SHALL BE SEDED (TYPE B, 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.

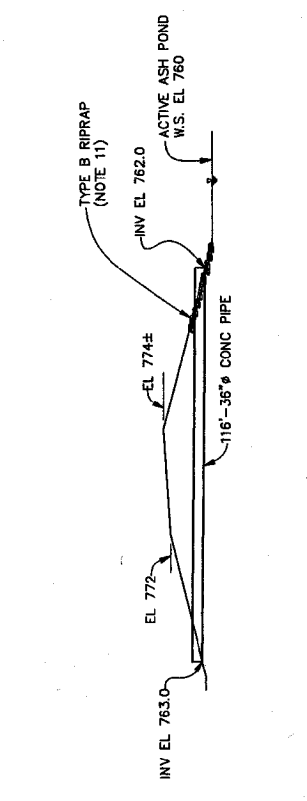


DETAIL A2
1" = 1'-0"

DETAIL B2
1" = 5'



C2 - C2
1" = 5'



D2 - D2
1" = 20'

NO.	DATE	BY	CHKD	APP'D	AS SHOWN	AS NOTED
1						
2						
3						
4						
5						

SCALE: 1" = 5'

YARD
DREDGE CELLS
TYPICAL SECTIONS
STAGE A

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
B.K. ELDER	G. CLAWSON	B.K. ELDER	H.L. PETTY

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14	DATE	3/8	3/8	10W425-2	PLOT FACTOR: 1	R 0
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CLASS DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: REV. NO.

8

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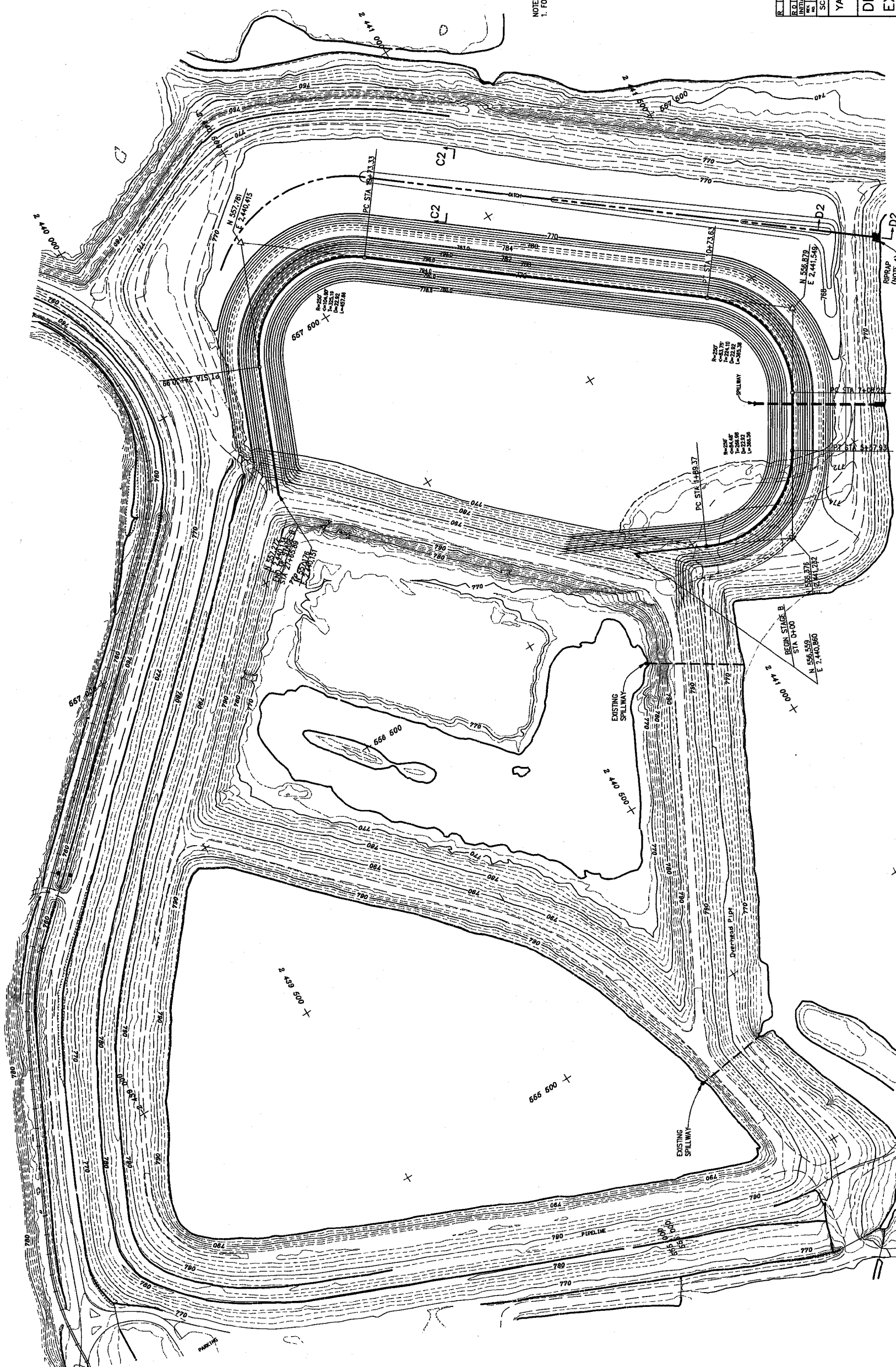
4

3

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1

10W425-3 36 C 10W425-3 2 3 4 5 6 7 8 9 10 11 12



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

DATE	BY	CHKD	APP'D	SCALE	EXCEPT AS NOTED
10/11/83	B.K. ELDER	G.C. LAWSON	B.K. ELDER	1"=100'	

**DREDGE CELLS
EXISTING / FUTURE CONTOURS
AND STAGE B PLAN**

YARD

REVISIONS:

NO.	DATE	BY	CHKD	APP'D	REASON
1	10/11/83	B.K. ELDER	G.C. LAWSON	B.K. ELDER	ISSUED FOR CONSTRUCTION

APPROVED BY: B.K. ELDER
 CHECKED BY: G.C. LAWSON
 DESIGNED BY: B.K. ELDER
 DRAWN BY: G.C. LAWSON
 SCALE: 1"=100'

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

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

10W425-3 36 C 10W425-3 2 3 4 5 6 7 8 9 10 11 12

TASK COMPLETED BY: _____ REV. NO. _____

PLOT FACTOR=1 W.T.W. C.A.D. DRAWING DO NOT ALTER MANUALLY

4-574M01 C 36 10W425-4

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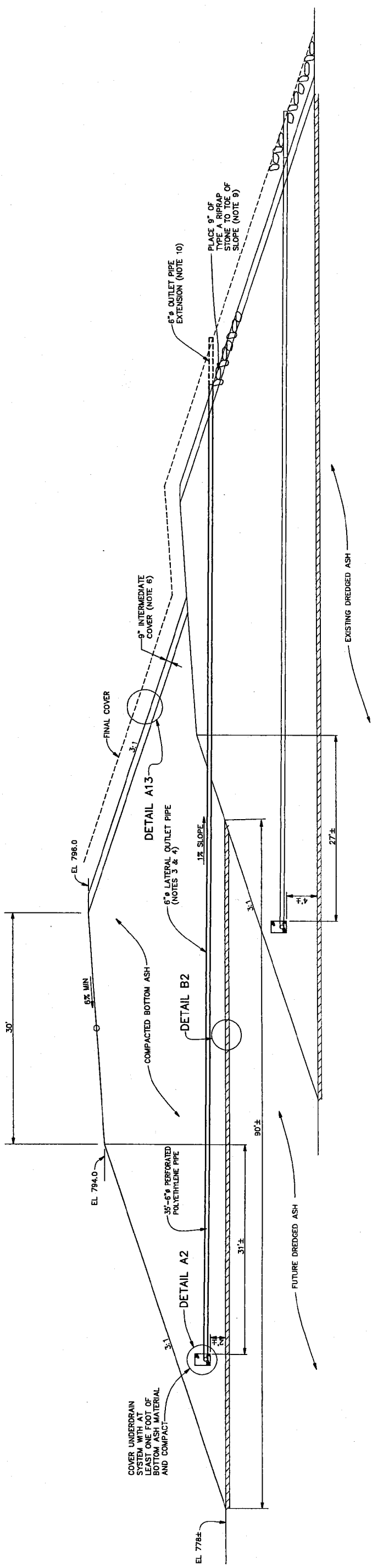
C

D

E

F

G



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

NO.	DATE	BY	CHKD BY	APP'D BY	REVISED BY	REVISION
1						
SCALE: 1" = 5'						
YARD						

DREDGE CELLS
TYPICAL SECTION
STAGE B

DESIGNED BY: B.K. ELDER
CHECKED BY: S.C. LAWSON
APPROVED BY: J.K. BURNETT, R.G. JOHNSON, W.D. HALL
KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14
DATE: 3/85
JOB NO: C 10W425-4
PLOT FACTOR: 1=1
W.T.V.A.
R.D.

C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: REV NO.

8

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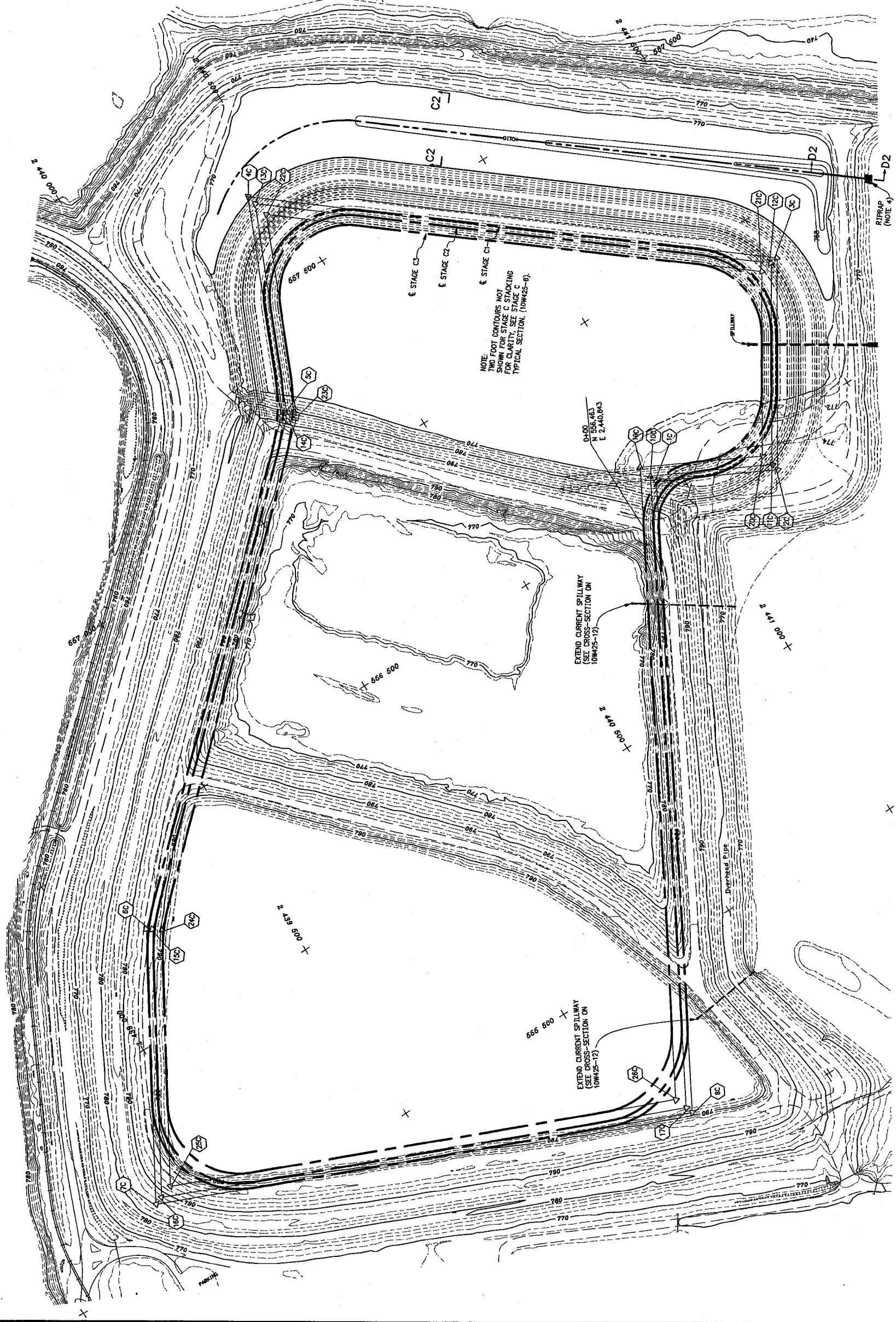
3

2

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PT	10		11		12	
	Lambert North	Coordinate East	R (ft)	D (deg)	L (ft)	PC (etc)
1C	556,546	2,440,937	115	90	116.26	49.83
2C	556,405	2,441,223	225	84.475	204.29	25.46
3C	556,873	2,441,518	225	83.745	201.69	25.46
4C	557,744	2,440,424	225	104.896	292.68	25.46
5C	557,213	2,440,192	500	23.399	103.54	11.46
6C	556,264	2,439,174	500	16.902	74.29	11.46
7C	555,843	2,438,814	225	97.980	258.74	25.46
8C	555,104	2,440,140	250	83.235	222.10	22.92
9C	556,568	2,440,931	130	90	124.95	44.07
10C	556,424	2,441,218	210	84.475	190.67	27.28
11C	556,889	2,441,499	210	83.745	188.24	27.28
12C	557,719	2,440,430	210	104.896	273.16	27.28
13C	557,205	2,440,205	515	23.399	106.65	11.13
14C	556,255	2,439,187	485	16.902	72.06	11.81
15C	555,850	2,438,836	210	97.98	241.49	27.28
16C	555,123	2,440,133	235	83.235	208.77	24.38
17C	556,602	2,440,920	155	90	148.98	36.87
18C	556,456	2,441,208	185	84.475	167.97	30.97
19C	556,864	2,441,465	185	83.745	165.83	30.97
20C	557,679	2,440,440	185	104.896	240.84	30.97
21C	557,192	2,440,227	540	23.399	111.82	10.61
22C	556,241	2,439,207	460	16.902	68.35	12.46
23C	555,663	2,438,872	185	97.98	212.74	30.97
24C	555,155	2,440,121	210	83.235	186.56	27.28
25C	556,602	2,440,920	155	90	148.98	36.87
26C	556,456	2,441,208	185	84.475	167.97	30.97
27C	556,864	2,441,465	185	83.745	165.83	30.97
28C	557,679	2,440,440	185	104.896	240.84	30.97
29C	557,192	2,440,227	540	23.399	111.82	10.61
30C	556,241	2,439,207	460	16.902	68.35	12.46
31C	555,663	2,438,872	185	97.98	212.74	30.97
32C	555,155	2,440,121	210	83.235	186.56	27.28
33C	556,602	2,440,920	155	90	148.98	36.87
34C	556,456	2,441,208	185	84.475	167.97	30.97
35C	556,864	2,441,465	185	83.745	165.83	30.97
36C	557,679	2,440,440	185	104.896	240.84	30.97
37C	557,192	2,440,227	540	23.399	111.82	10.61
38C	556,241	2,439,207	460	16.902	68.35	12.46
39C	555,663	2,438,872	185	97.98	212.74	30.97
40C	555,155	2,440,121	210	83.235	186.56	27.28

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



REVISION	DATE	BY	CHKD	APPD	DESCRIPTION
1					INITIAL ISSUE
2					REVISION
3					REVISION
4					REVISION
5					REVISION
6					REVISION
7					REVISION
8					REVISION
9					REVISION
10					REVISION
11					REVISION
12					REVISION

SCALE: 1"=100'

YARD

DREDGE CELLS
EXISTING / FUTURE CONTOURS
AND STAGE C PLAN

DESIGNED BY: B.KELDER
CHECKED BY: G.C. LAMSON
APPROVED BY: K.W. BURNETT, G. JOHNSON, W.D. HALL

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE: 3/5/83 C 10W425-5 R 0

PLOT FACTOR: 1.1
W_TVA
C.A.D. DRAWING
DO NOT ALTER MANUALLY

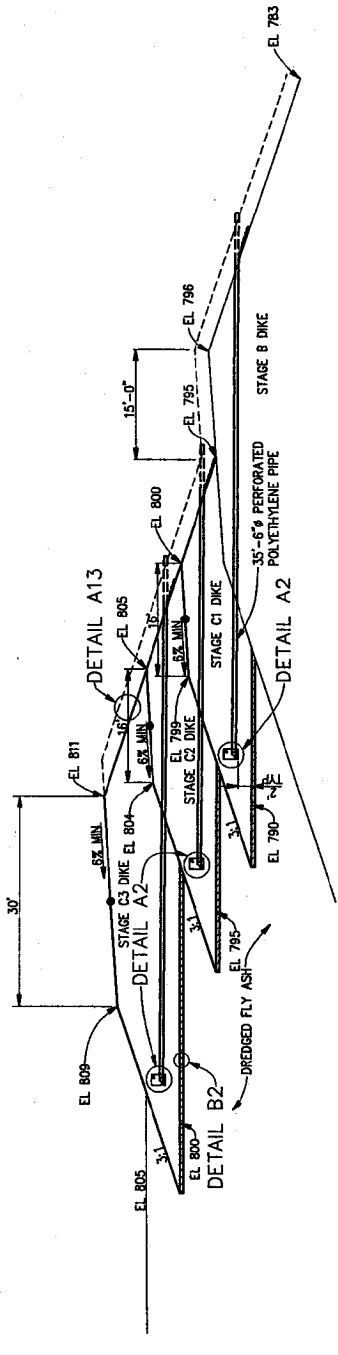
9-574M01 C 95

10W425-5

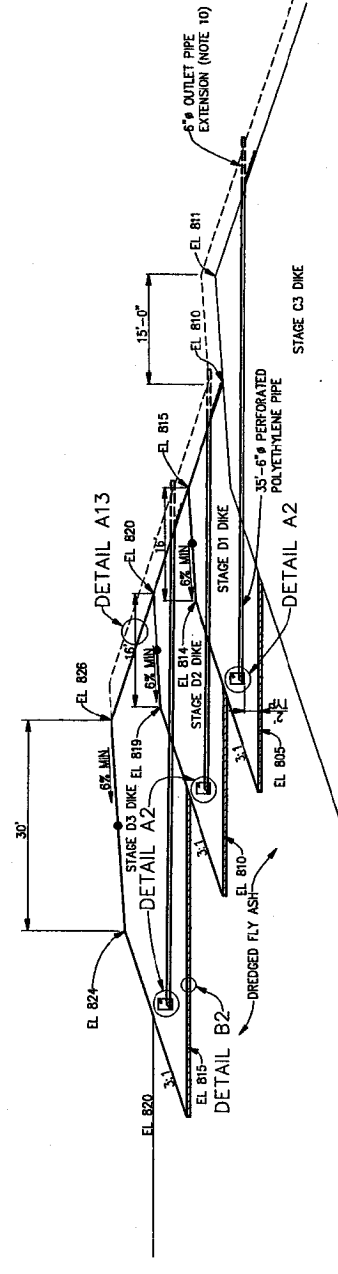
TASK COMPLETED BY: _____ REV. NO. _____

8 7 6 5 4 3 2 1

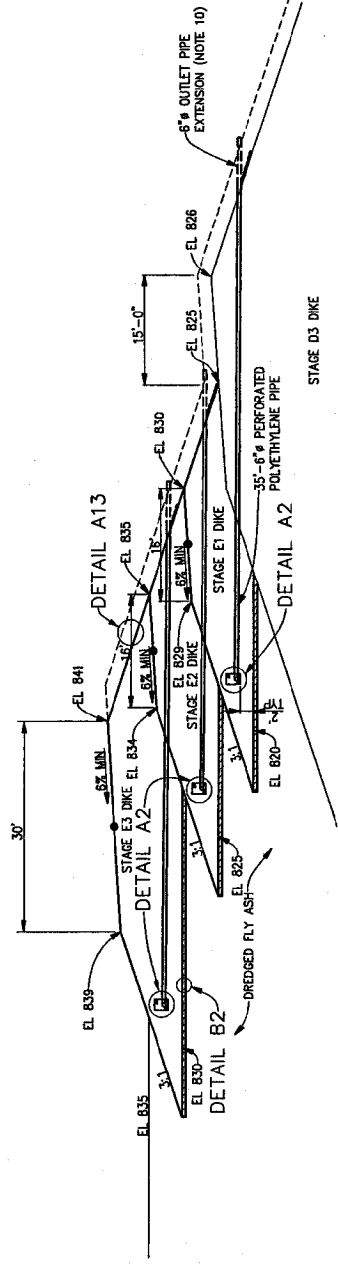
9-5274M01 C 95	2	3	4	5	6	7	8	9	10	11	12
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TYPICAL SECTION - STAGE C



TYPICAL SECTION - STAGE D



TYPICAL SECTION - STAGE E

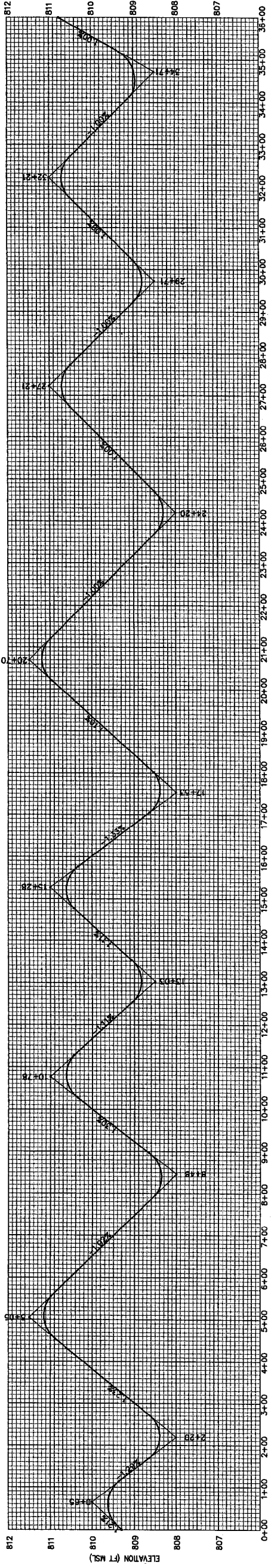
- NOTES:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE T-1 GENERAL CONDITIONS AND SPECIFICATIONS FOR CONSTRUCTION OF EARTH DAMS AND RELATED STRUCTURES. THE KINGSTON FOSSIL PLANT UNLESS OTHERWISE NOTED. SECTION NUMBERS REFER DIRECTLY TO THE T-1 SPECIFICATION.
 2. UNDERDRAIN PIPE SHALL BE PERFORATED POLYETHYLENE CORRUGATED TUBING AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., COLUMBUS, OHIO (614) 457-3951 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) 457-3951 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 TREMIRA 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 STRAP AS SPECIFIED BY THE CONTRACT DOCUMENTS. EQUIVALENT PILING 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.

DATE	ISSUE	BY	CHKD	APP	DATE	ISSUE	BY	CHKD	APP
SCALE: 1"=10'					EXCEPT AS NOTED				
YARD									
DREDGE CELLS									
TYPICAL SECTIONS									
STAGES C, D, & E									
DESIGNED BY	CHIEF ENGINEER	DRAWN BY	CHECKED BY	APPROVED BY	DATE	ISSUE	BY	CHKD	APP
B.K. ELDER	G. CLAWSON	B.K. ELDER	H.L. PETTY	K. M. BURNETT	R. G. JOHNSON	M.D. HALL			
KINGSTON FOSSIL PLANT									
TENNESSEE VALLEY AUTHORITY									
FOSSIL AND HYDRO ENGINEERING									
AUTOCAD R14	SIZE	35	C	10W425-6	R. D.				
PLOT FACTOR: 1=1					W.T.V.A				
DO NOT ALTER MANUALLY									

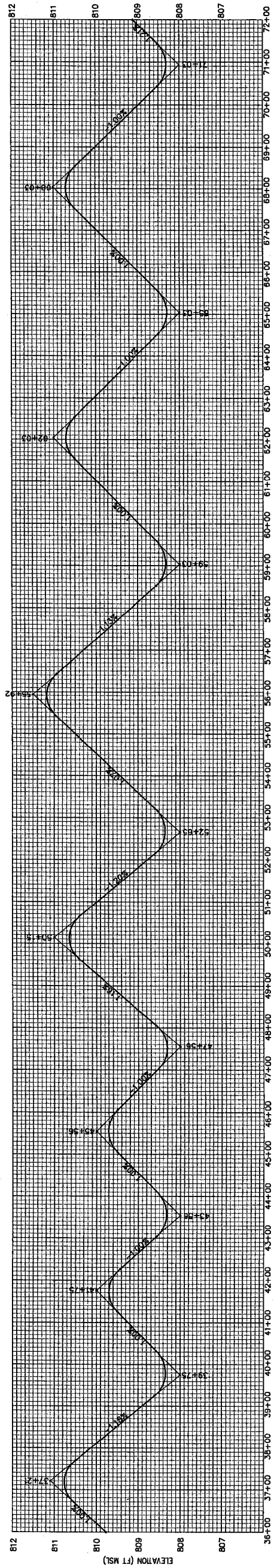
10W425-6	1	2	3	4	5	6	7	8	9	10	11	12
TASK COMPLETED BY:												
REV. NO.												

L-SZ4W01 C 9C

2 3 4 5 6 7 8 9 10 11 12



STAGE C3 STATION



STAGE C3 STATION

R.O.	BKE	DEL	HLP	KWB	SGJ	MCH	ERD	D
INITIAL ISSUE	DATE	BY	CHK	APP	REV	AS COR	AS COR	
SCALE: 1"=1' VERT. & 1"=100' HORIZ.								
YARD								

DREDGE CELLS		STAGE "C" PROFILE	
DESIGNED BY	APPROVED BY	DESIGNED BY	APPROVED BY
B.K. ELDER	G. CLAWSON	H.L. PETTY	K.W. BURNETT
KINGSTON FOSSIL PLANT		TENNESSEE VALLEY AUTHORITY	
FOSSIL AND HYDRO ENGINEERING		FOSSIL AND HYDRO ENGINEERING	
AUTOCAD R14	DATE	36	C 10W425-7
PLOT FACTOR: 1=1		W.T.V.A	
R.O.		DO NOT ALTER MANUALLY	

TASK COMPLETED BY: _____ REV NO. _____

1 2 3 4 5 6 7 8

8-10W425-8

36

C

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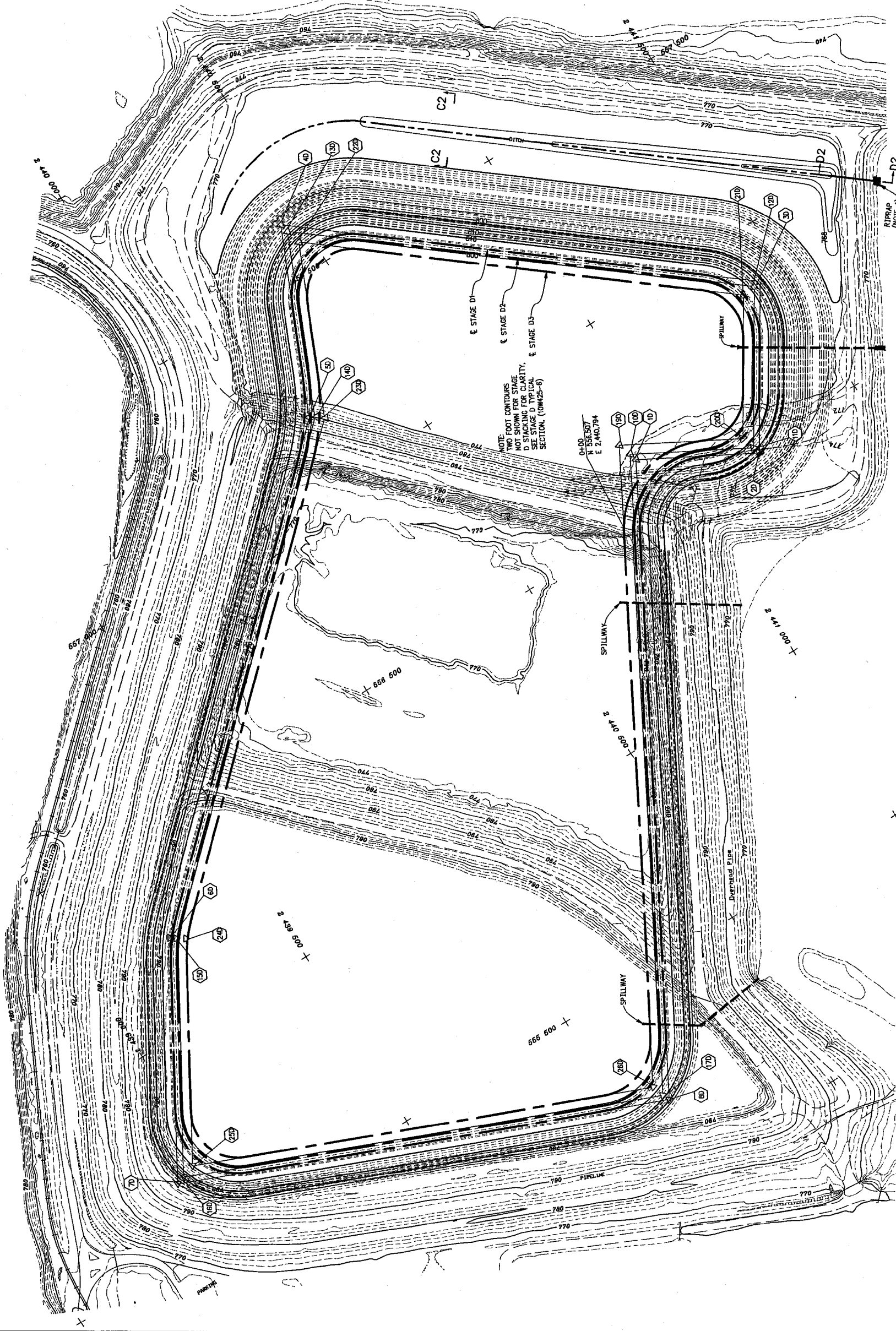
10

11

12

PI	Lambert Coordinate East	R (ft)	Δ (deg)	T (ft)	D	L (ft)	PC (sta)	PT (sta)
10	556,638	170	90	170	33.70	267.04	0.00	267.04
20	556,481	160	84.475	145.27	35.81	234.88	271.92	508.8
30	556,858	160	83.745	143.42	35.81	233.66	657.38	891.04
40	557,642	160	104.896	208.12	35.81	282.90	1798.63	2091.53
50	557,178	160	23.399	117.00	10.14	230.49	2273.03	2503.52
60	556,226	160	16.902	64.63	13.17	128.32	3718.00	3846.32
70	555,674	160	97.980	183.99	35.81	273.75	4235.58	4509.33
80	555,185	185	83.235	164.35	30.97	268.58	5462.34	5730.92
100	556,657	185	90	185.00	30.97	280.60	0	280.60
110	556,501	145	84.475	131.65	39.51	212.86	298.97	511.83
120	556,855	145	83.745	129.98	39.51	215.20	668.99	884.19
130	557,618	145	104.896	188.61	39.51	269.46	1787.37	2056.83
140	557,171	140	23.399	120.11	9.88	235.78	2236.12	2471.9
150	556,217	140	16.902	62.4	13.64	124.61	3686.35	3810.96
160	555,681	145	97.98	166.74	39.51	251.73	4197.96	4449.69
170	555,203	170	83.235	151.03	33.7	250.17	5398.84	5649.01
190	556,653	210	90	210.00	27.28	329.87	0	329.87
200	556,536	120	84.475	108.95	47.75	176.16	336.49	512.65
210	556,851	120	83.745	107.57	47.75	175.5	669.8	845.3
220	557,579	120	104.896	156.09	47.75	219.86	1749.8	1989.66
230	557,157	605	23.399	125.28	9.47	247.22	2148.34	2395.56
240	556,203	395	16.902	58.69	14.51	115.76	3609.97	3725.73
250	555,684	120	97.98	138	47.75	205.36	4118.06	4323.42
260	555,235	145	83.235	128.82	39.51	210.73	5273.09	5485.82

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



NO.	DATE	BY	CHKD	APP'D	AS SHOWN	AS NOTED
1						

SCALE: 1"=100'

YARD

**DREDGE CELLS
EXISTING / FUTURE CONTOURS
AND STAGE D PLAN**

DESIGNED BY	APPROVED BY
DRAWN BY	CHECKED BY
DATE	SCALE

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE 36 C 10W425-8 PLOT FACTOR: 1=1" W.T.H. R 0

10W425-8

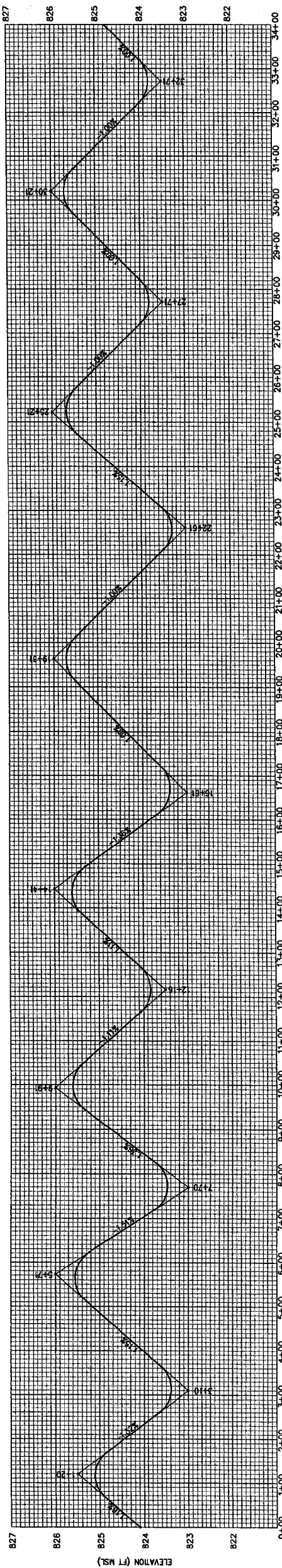
TASK COMPLETED BY: _____

REV. NO. _____

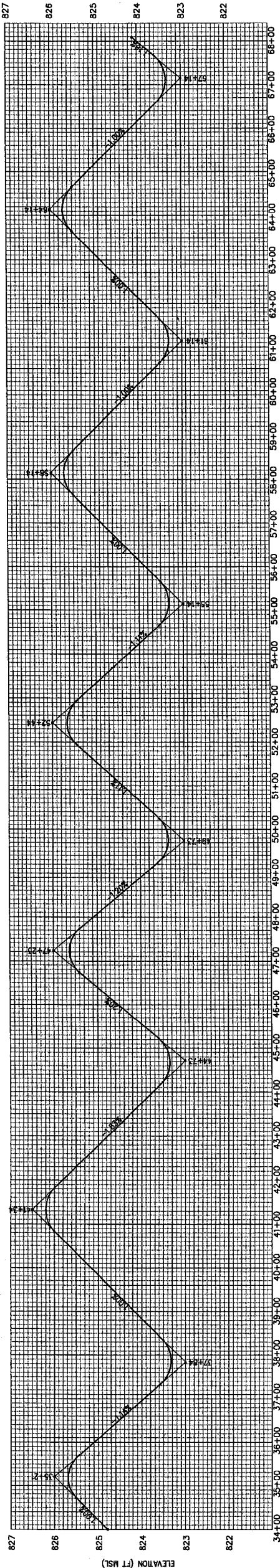
C.A.D. DRAWING
DO NOT ALTER MANUALLY

6-547W01 C 95

2 3 4 5 6 7 8 9 10 11 12



STAGE D3 STATION



STAGE D3 STATION

NO.	DATE	BY	CHKD BY	APP'D BY	REVISION
INITIAL ISSUE					
SCALE: 1"=1' VERT. & 1"=100' HORIZ.					
YARD					

DREDGE CELLS
STAGE "D" PROFILE

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY
B. KLEIDER	G. CLAWSON	H. L. PETTY	K. W. BURNETT
KINGSTON FOSSIL PLANT TENNESSEE VALLEY AUTHORITY FOSSIL AND HYDRO ENGINEERING			

AUTOCAD R14	DATE	36	C	10W425-9	R D
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PLOT FACTOR=1=1
M_LTYA
C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: REV NO.

8

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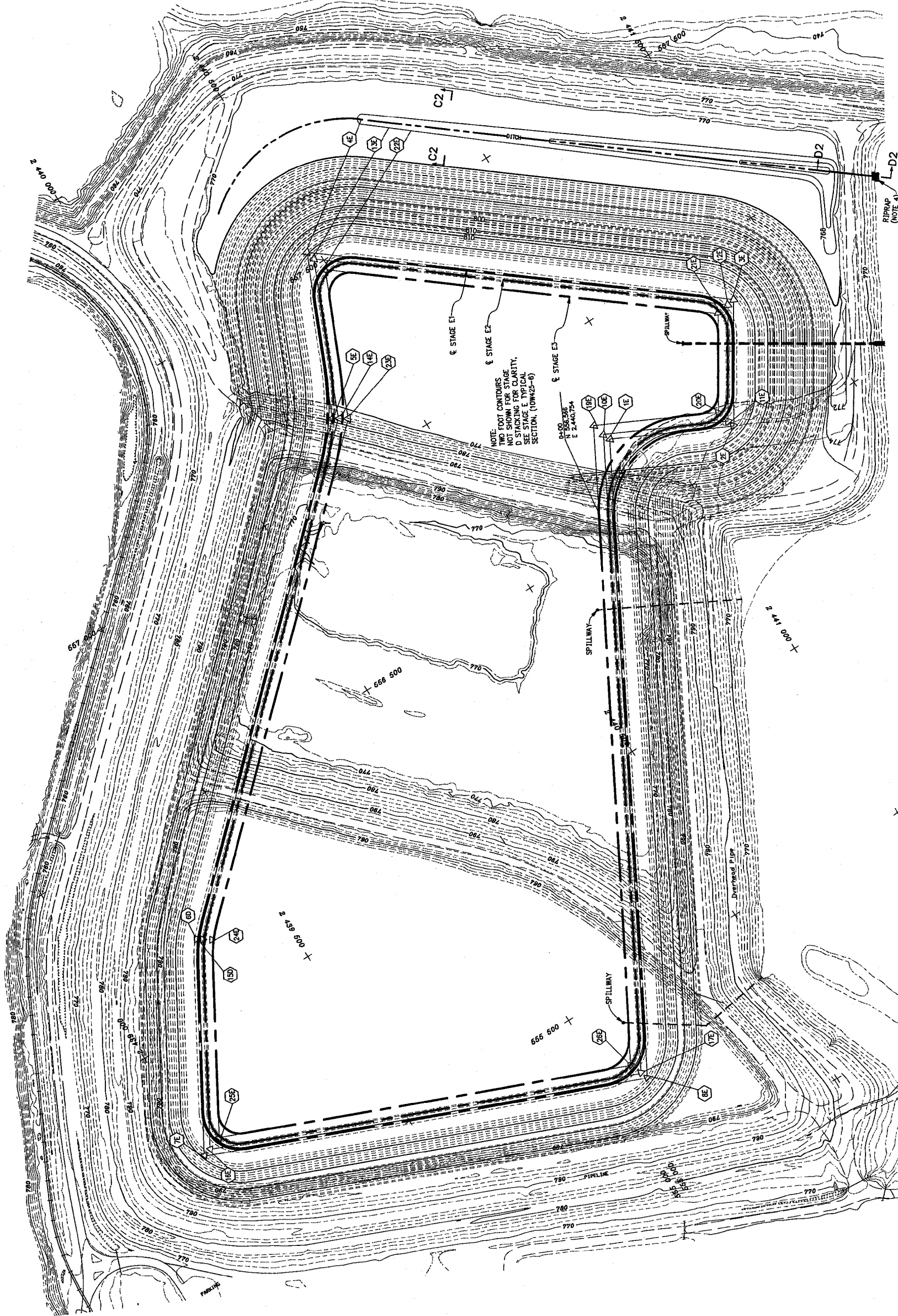
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10W425-B

PI	Lambert Coordinate North	Lambert Coordinate East	R (ft)	A (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	368.19	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	104.886	123.57	60.31	173.78	1710.82	1884.7
5E	557,142	2,440,299	630	23.399	130.46	9.09	256.12	2087.16	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	555,284	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	72.84	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	104.886	104.06	71.62	146.80	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	97.980	92	71.62	136.84	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	2,440,855	240	90	229.13	23.88	365.87	0	365.87
20E	556,622	2,441,159	96	84.475	49.94	104.17	80.85	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	104.886	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	97.980	63.25	104.17	94.00	3898.38	3992.38
26E	555,315	2,440,083	80	83.235	71.07	71.62	116.21	4945.4	5061.61

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



R.O.	DATE	BY	CHKD.	APP'D.	SCALE	PROJECT	NO.	REV.

SCALE: 1" = 100'

YARD

EXCEPT AS NOTED

**DREDGE CELLS
EXISTING / FUTURE CONTOURS
AND STAGE E PLAN**

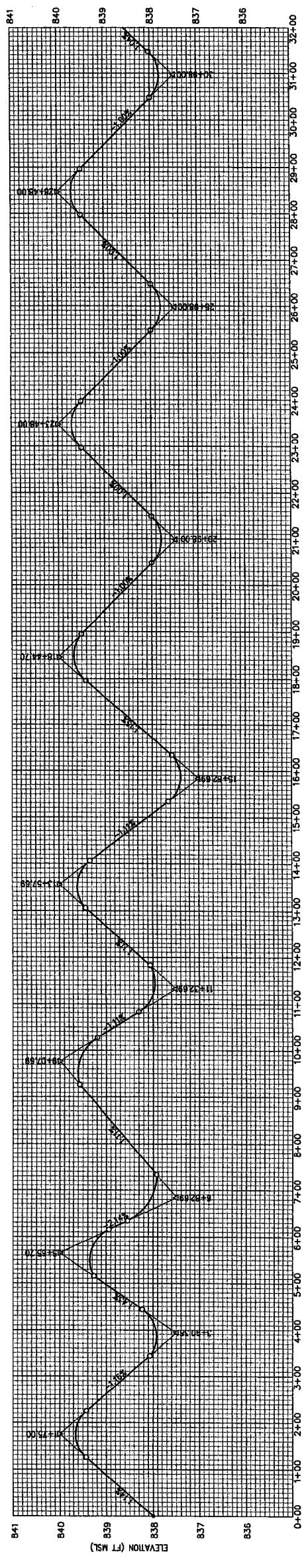
DESIGNED BY: B.K. ELDER, H.L. PEITY, K.W. BURNETT, G. JOHNSON, W.D. HALL
 CHECKED BY: G. CLAWSON
 KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE: 3/8/96 C 10W425-10
 PLOT FACTOR: 1=1" W_TVA
 C.A.D. DRAWING
 DO NOT ALTER MANUALLY

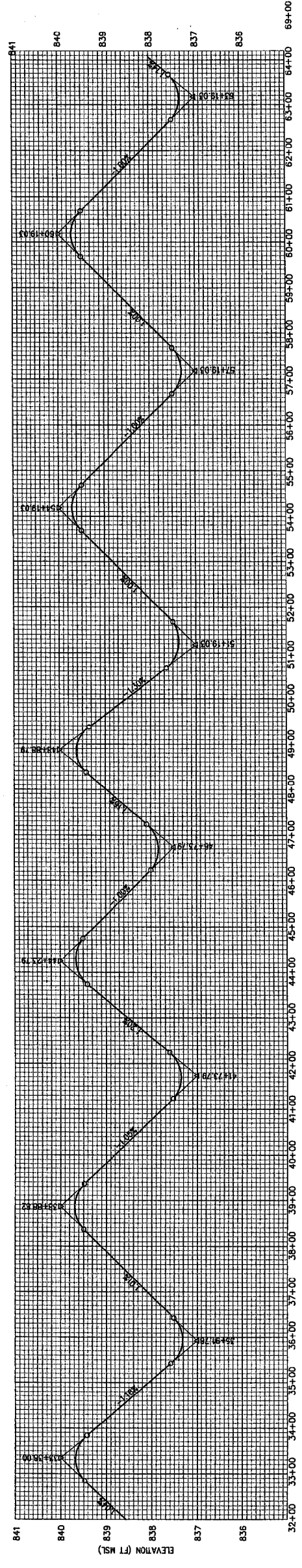
01-SZVMO1 C 96 10W425-10

10425-12 TASK COMPLETED BY: REV. NO. 8

11-52425-11 36 C 10W425-11 2 3 4 5 6 7 8 9 10 11 12



STAGE E3 STATION



STAGE E3 STATION

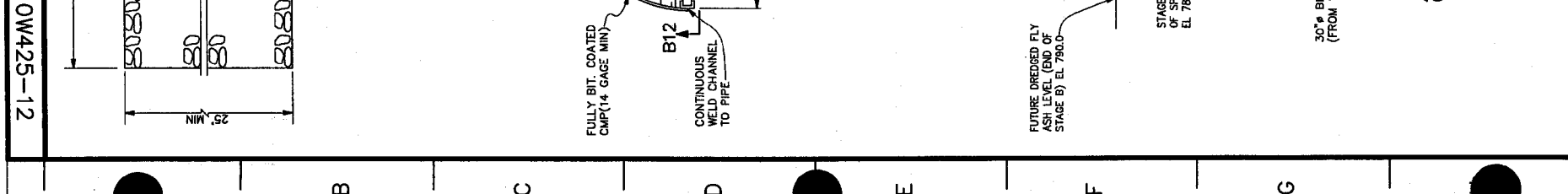
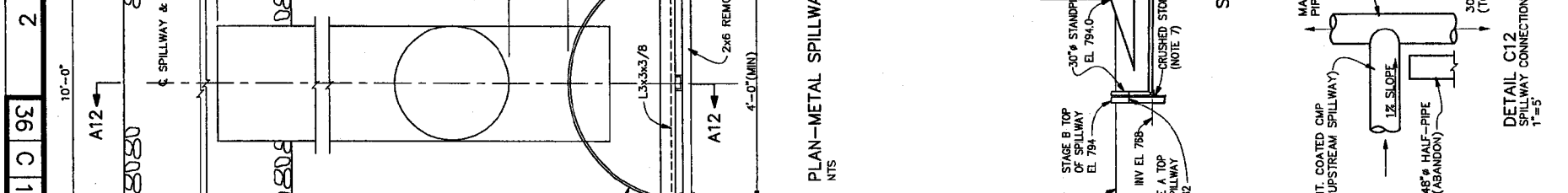
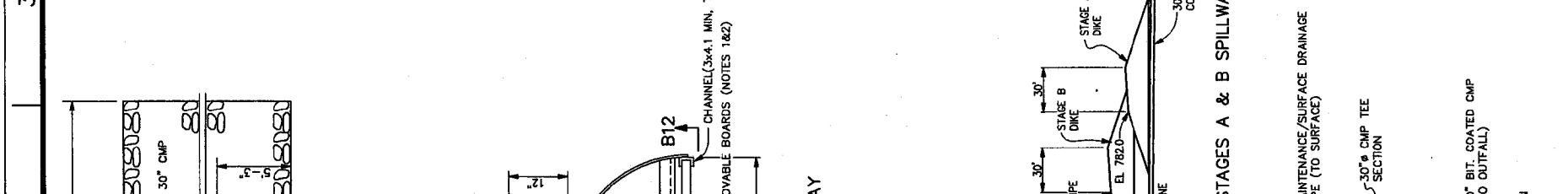
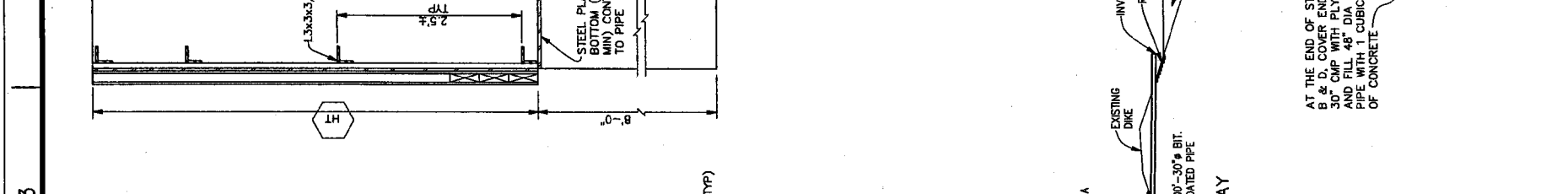
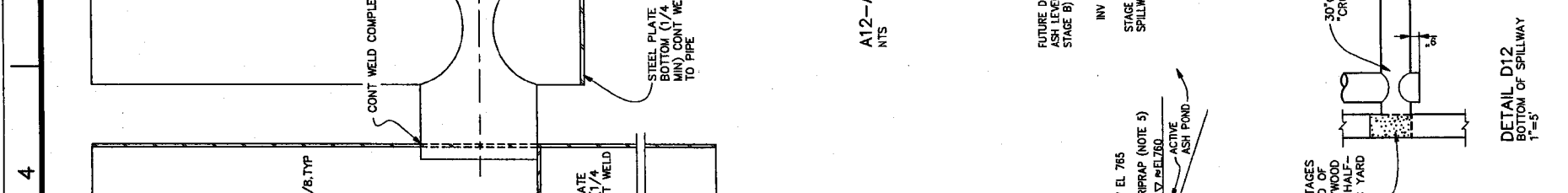
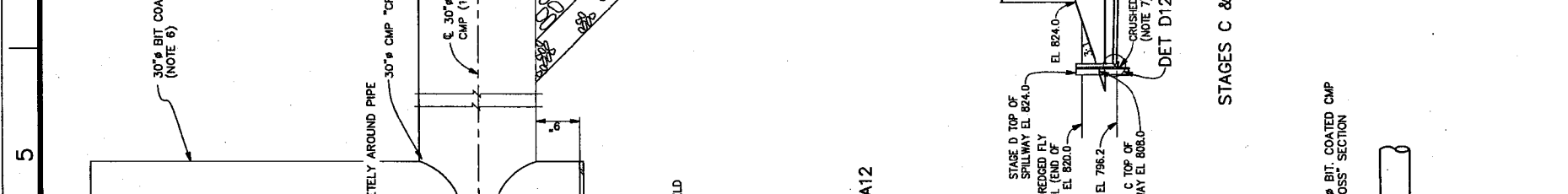
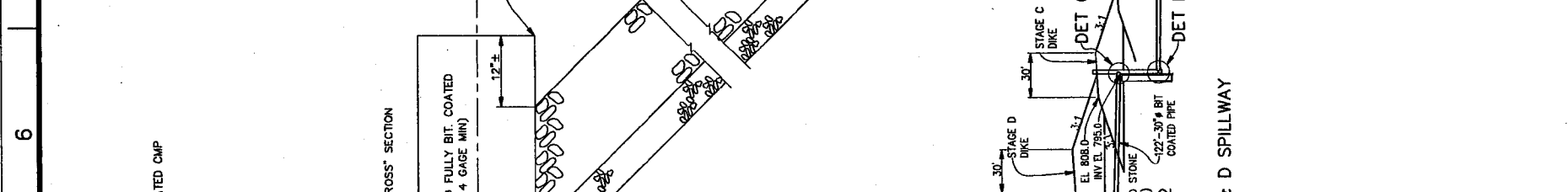
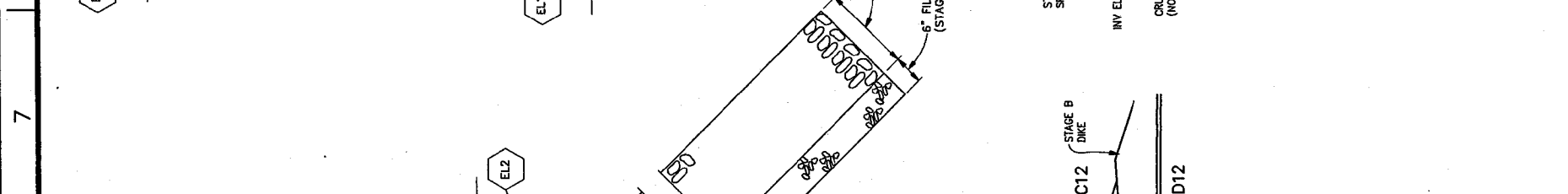
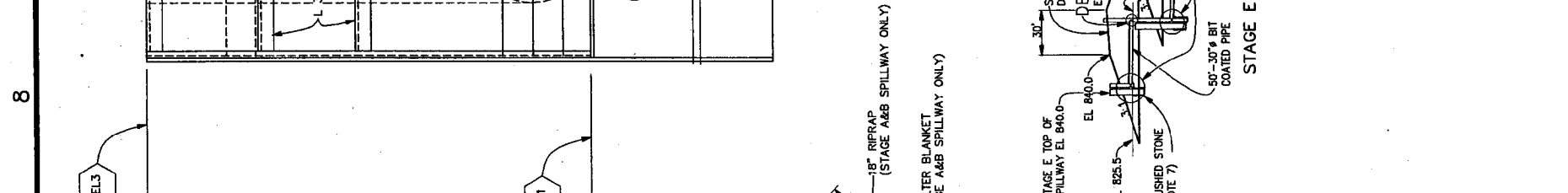
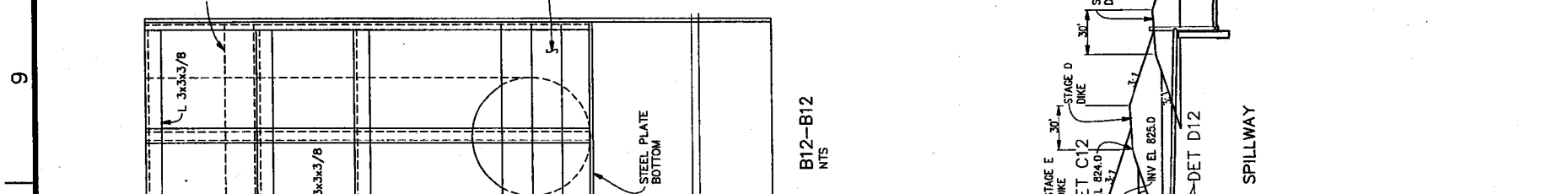
DATE	36	C	10W425-11	REV. NO.	8
SCALE	1"=1' VERT. & 1"=100' HORIZ.				
YARD					
DREDGE CELLS STAGE "E" PROFILE					
DESIGNED BY	ENGINEER	CHECKED BY	APPROVED BY	DATE	PROJECT
B. K. ELDER	G. C. LAWSON	H. L. PETTY	K. M. BURNETT	R. G. JOHNSON	M. D. HALL
KINGSTON FOSSIL PLANT TENNESSEE VALLEY AUTHORITY FOSSIL AND HYDRO ENGINEERING					
AUTOCAD R14	DATE	36	C	10W425-11	R 0
PLOT FACTOR: 1=1 W. L. TWA C.A.D. DRAWING DO NOT ALTER MANUALLY					

ITEM	A	B	C	D	E	UNIT
CHANNEL (3x4.1 MIN)	42	36	36	48	44	LF
ANGLE (L3x3x3/4 MIN)	20	18	15	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	EA
30" DIA. CMP	312	12	134	16	62	LF
2" X 6" BOARD	96	96	80	128	96	LF

DIMENSION	A	B	C	D	E
EL1	768.0	768.0	796.2	796.2	825.5
EL2	765.0	765.0	785.0	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'

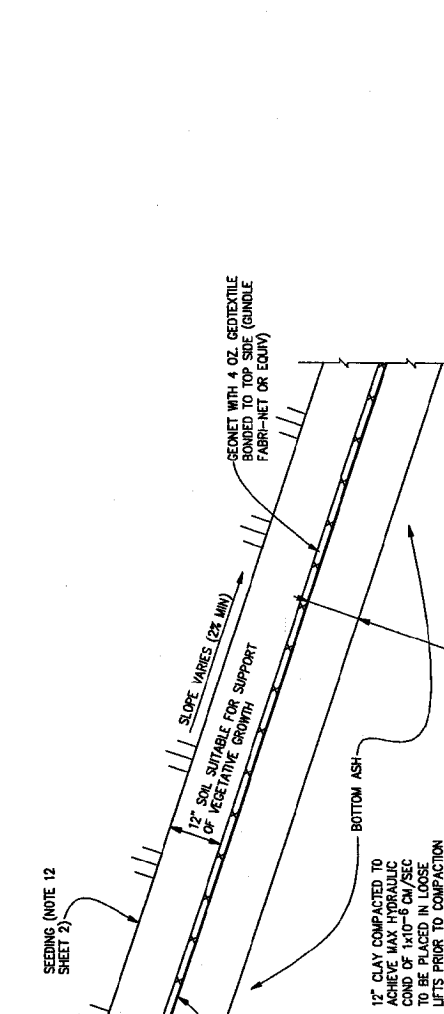
STAGE	A	B	C	D	E
STAGE A	42	36	36	48	44
STAGE B	20	18	15	24	20
STAGE C	114	---	114	---	114
STAGE D	11	6	10	8	12
STAGE E	1	---	1	---	1

NOTES:
 1. ALL TIMBER SHALL BE SOUTHERN PINE NO. 2 DENSE SELECT TIMBER.
 2. ALL WOOD SHALL BE PRESURE 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 30Z 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 48" DIA. CMP PIPE. THE AREAS TO BE BACKFILLED WITH 100Z CRUSHED STONE AND COMPACTED UNTIL A STABLE BASE IS ACHIEVED.



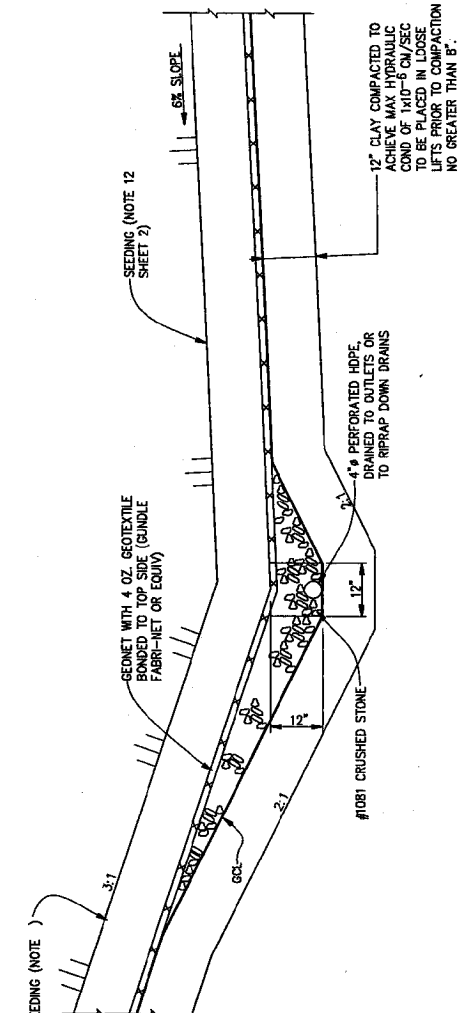
SCALE: 1"=40'
 YARD
 DREDGE CELLS
 SPILLWAY / SKIMMER DETAILS
 KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSIL AND HYDRO ENGINEERING
 DATE: 3/6/10
 AUTOCAD R14
 PLOT FACTOR: 1=1
 W.TVA
 C.A.D. DRAWING
 DO NOT ALTER MANUALLY

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



OPTION 1

DETAIL A13



TYPICAL BERM DITCH CROSS SECTION FOR OPTION 2 COVER 3/4\"/>

OPTION 2 3/4\"/>

IF DREDGE CELL CHRONOLOGY FOR DIKE CONSTRUCTION AND DREDGING

YEAR	BOT. ASH PROD. (CY)	DIKE STAGE	B. A. RECD FOR DIKE (CY)	YEAR	FLY ASH PROD. (CY)	DREDGE STAGE	VOL. AVAIL FOR F. A. (CY)
Present	131,000	A	130,000	Present	281,823	CELLS 1A3	531,900
1996	70,864	A	4,000	1996	291,557	A	332,300
1997	70,176	B	10,176	1997	288,724	A	290,520
1998	71,535	B	81,136	1998	294,317	B	356,800
1999	71,482	C1	101,752	1999	294,059	B	64,279
2000	70,688	C2	96,761	2000	290,630	C1	587,497
2001	69,858	C2	81,456	2001	287,416	C1	66,847
2002	72,269	C3	156,602	2002	297,295	C2	565,065
2003	72,347	C3	75,372	2003	297,658	C2	47,201
2004	72,241	D1	86,312	2004	287,222	C3	517,698
2005	72,771	D2	94,385	2005	289,401	D1	495,131
2006	73,866	D3	147,958	2006	303,505	D1	485,148
2007	74,431	D3	146,599	2007	306,229	D2	466,758
2008	75,702	E1	90,859	2008	311,459	D3	328,600
2009	74,625	E1	11,460	2009	307,028	D3	425,157
2010	74,678	E2	88,955	2010	307,246	E1	140,048
2011	74,678	E3	139,285	2011	307,246	E2	407,578
2012	74,678	E3	92,398	2012	307,246	E3	381,428
2013	74,678	STORE*	56,980	2013	307,246	STORE*	315,179
2014	74,678	STORE*	74,678	2014	307,246	STORE*	345,826
TOTAL TO BE STORED	208,316						45,513
							567,979

* EXCESS ASH TO BE DREDGED/SUICED INTO A FUTURE ADJACENT CELL AND DREDGED 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 (BOTTOM ASH)

DIKE CONSTRUCTION	1995	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
LIFTS BY LAYER DESIGNATION:																				
A																				
B																				
C																				
D																				
E																				
STORE																				
DREDGE OPERATIONS (FLY ASH)																				
A																				
B																				
C																				
D																				
E																				
STORE																				

YARD

DREDGE CELLS COVER DETAILS AND SCHEDULE

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

APPROVED BY: B.K. ELDER, G.C. LAWSON, B.K. ELDER, H.L. PERRY, K.W. BURNETT, G. JOHNSON, W.D. HALL

DATE: 3/8/08

SCALE: 3/8" = 1'-0"

EXCEPT AS NOTED

REVISIONS:

NO.	DATE	BY	CHKD BY	APPV BY	DESCRIPTION
1					AS SHOWN

EXCEPT AS NOTED

PLANNING & DESIGN DIVISION

DATE: 3/8/08

SCALE: 3/8" = 1'-0"

EXCEPT AS NOTED

41-SZ7M01 0 9E

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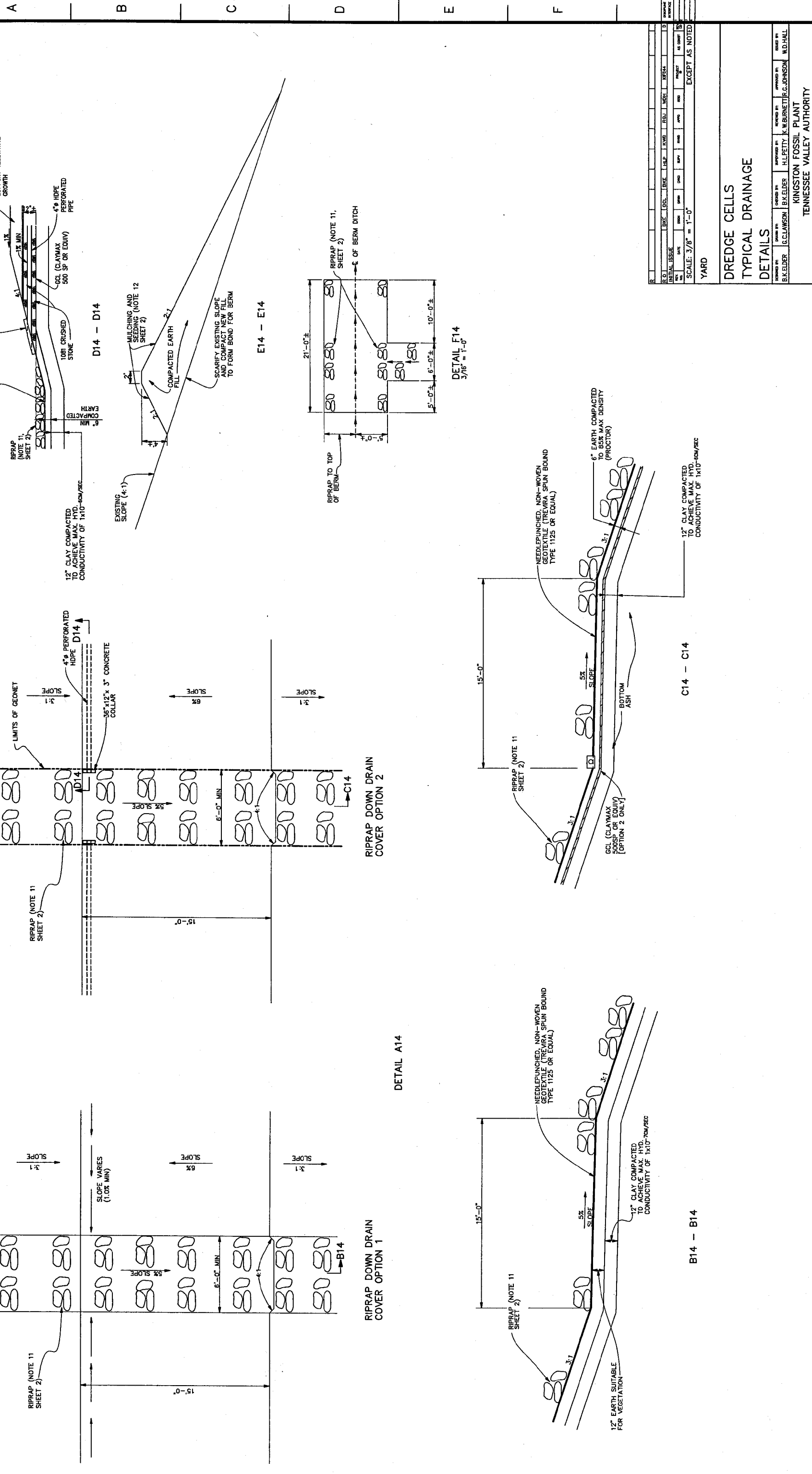
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NO.	DATE	BY	CHKD	APPD	PROJECT	AS SHOWN	EXCEPT AS NOTED
INITIAL ISSUE							
DATE							
SCALE:	3/8" = 1'-0"						
YARD							

**DREDGE CELLS
TYPICAL DRAINAGE
DETAILS**

DESIGNED BY: B. ELDER
CHECKED BY: S. CLAWSON
APPROVED BY: K. W. BURRITT
PROJECT: KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE: 36 C 10W425-14 PLOT FACTOR: 1:1
MVA
C.A.D. DRAWING
DO NOT ALTER MANUALLY

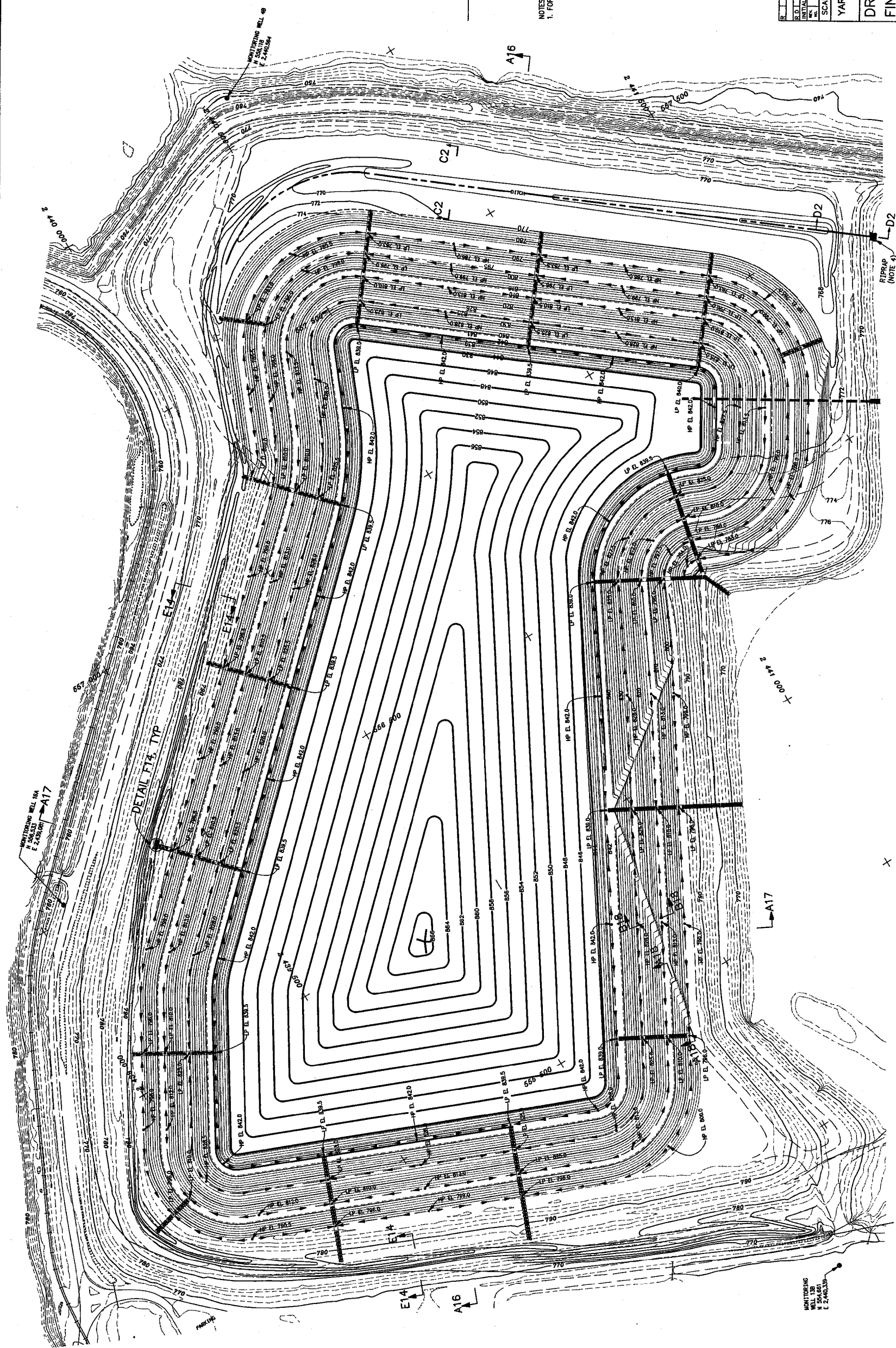
10425-16 1 2 3 4 5 6 7 8 9 10 11 12

TASK COMPLETED BY: _____ REV. NO. _____

S1-CZ7M01 C 36

12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F



— LIMITS OF FINAL COVER

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

NO.	DATE	BY	CHKD	APPD	DESC	REVISION
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

SCALE: 1"=100'

EXCEPT AS NOTED

**DREDGE CELLS
FINAL CLOSURE
CONTOURS**

DESIGNED BY: B. KLEIDER
 CHECKED BY: E.C. LANSON
 APPROVED BY: H. PETTY
 KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14
 DATE: 36 C
 PLOT FACTOR: 1=1
 W.TVA
 10W425-15
 R 0

TASK COMPLETED BY: _____

REV. NO. _____

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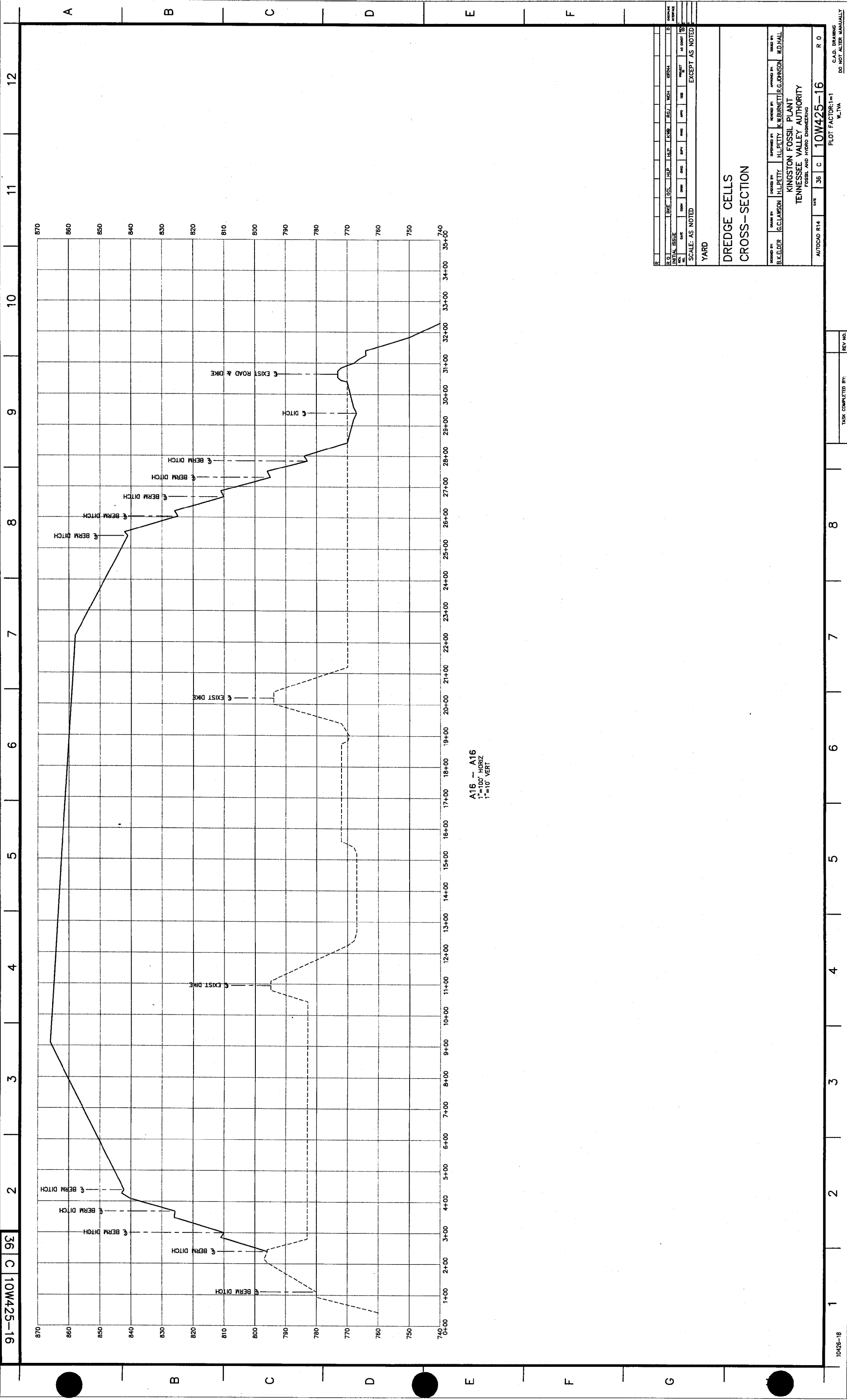
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10425-17

C.A.D. DRAWING
DO NOT ALTER MANUALLY



36 C 10W425-16

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	
BY	BY	BY	BY	BY	BY	BY	BY	BY	BY	BY	BY	
SCALE: AS NOTED	EXCEPT AS NOTED											
YARD												
DREDGE CELLS CROSS-SECTION												
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	APPROVED BY								
B.K. EIDER	G. CLAWSON	H.L. PETTY	H.L. PETTY	K. WILBURNETT	G.G. JOHNSON	W.D. HALL						
KINGSTON FOSSIL PLANT TENNESSEE VALLEY AUTHORITY FOSSIL AND HYDRO ENGINEERING												
AUTOCAD R14	DATE	36	C	10W425-16								R O

10425-19 36 C 10W425-17

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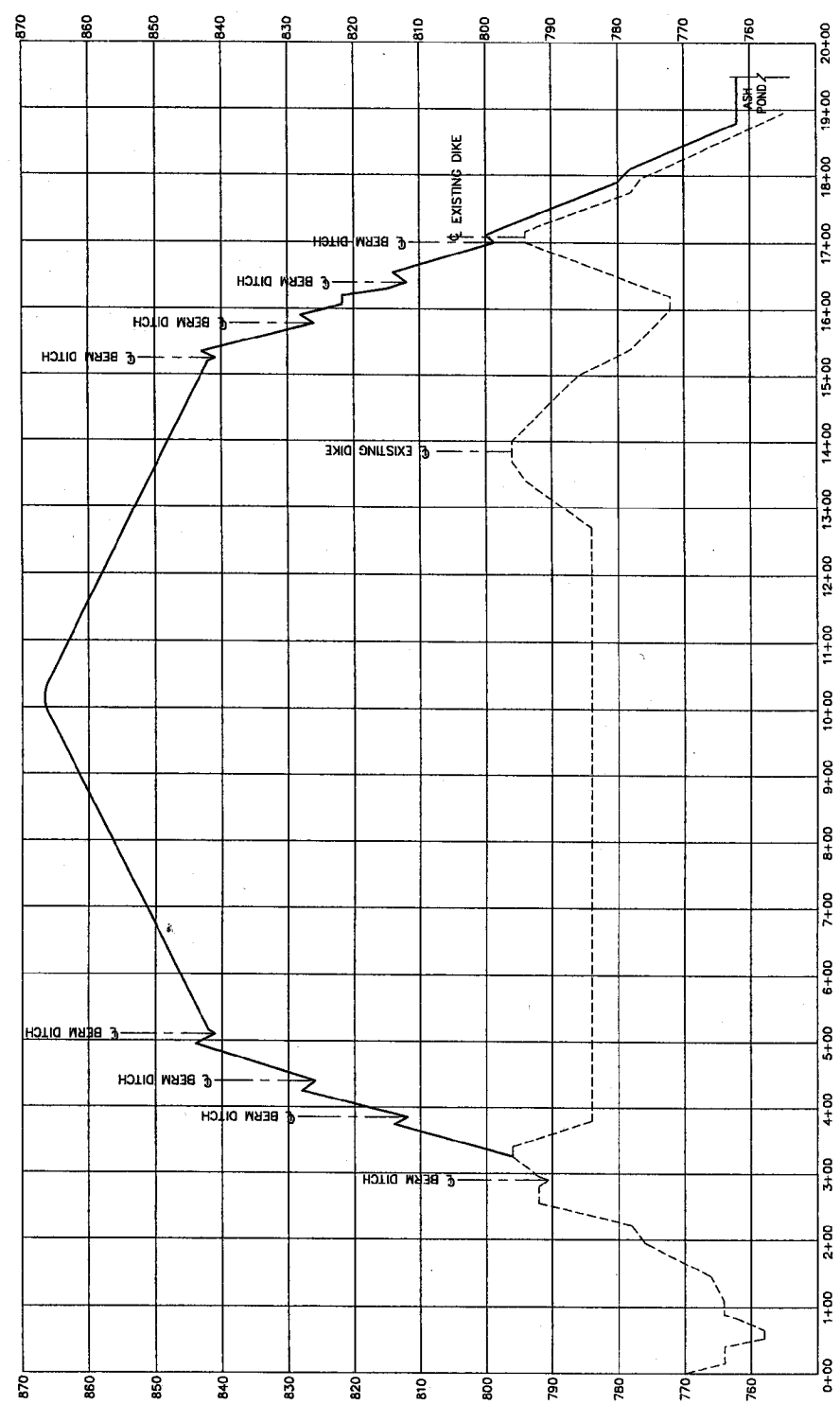
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A17 - A17
 1"=100' HORIZ
 1"=10' VERT

A

B

C

D

E

F

G

B

C

D

E

F

DATE	ISSUE	BY	CHKD BY	DATE	ISSUE	BY	CHKD BY

SCALE: AS NOTED
 YARD

**DREDGE CELLS
 CROSS-SECTION**

DESIGNED BY: G. CLAWSON
 CHECKED BY: H.L. PETTY
 DRAWN BY: K. BURNETT
 APPROVED BY: R.G. JOHNSON
 M.D. HALL
 KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE: 3/30/93
 PLOT FACTOR: 1=1
 W.TVA
 10W425-17
 R.O.

TASK COMPLETED BY: REV. NO.

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81-SZ4M01 C 9C 36 10W425-18

2 3 4 5 6 7 8 9 10 11 12

A

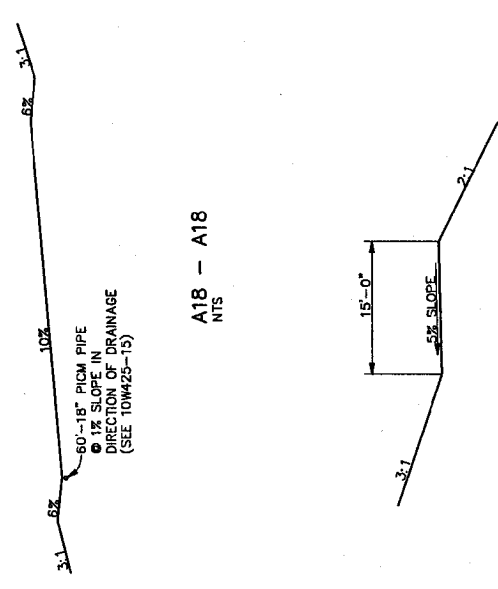
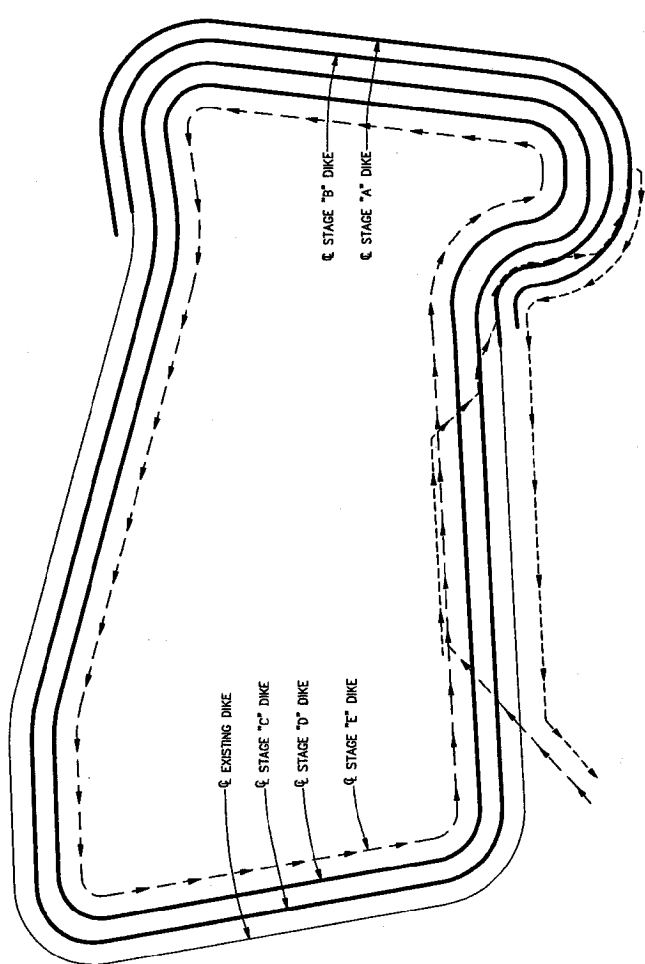
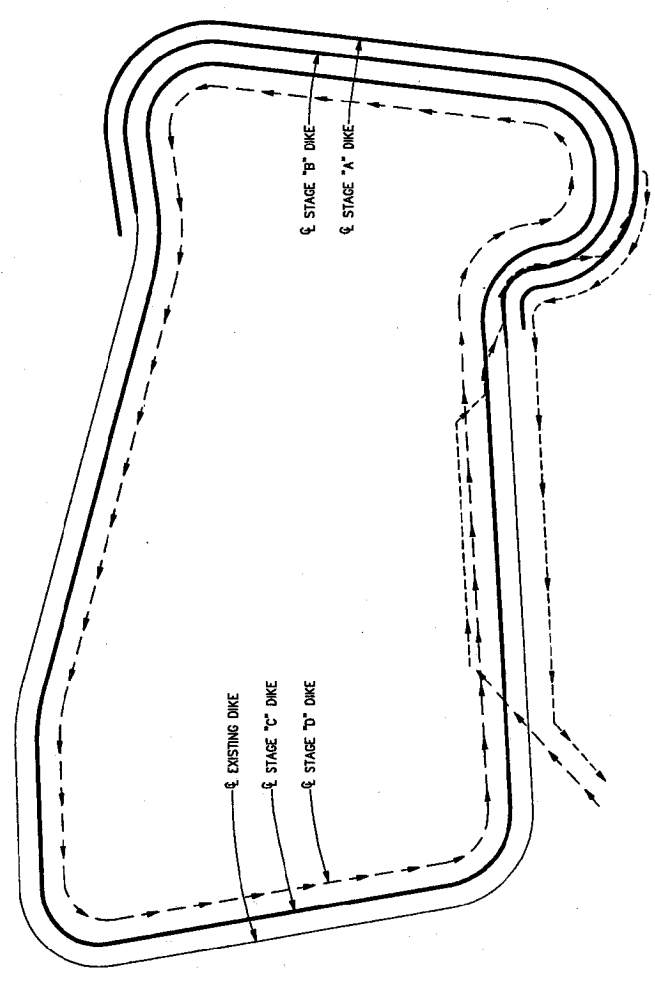
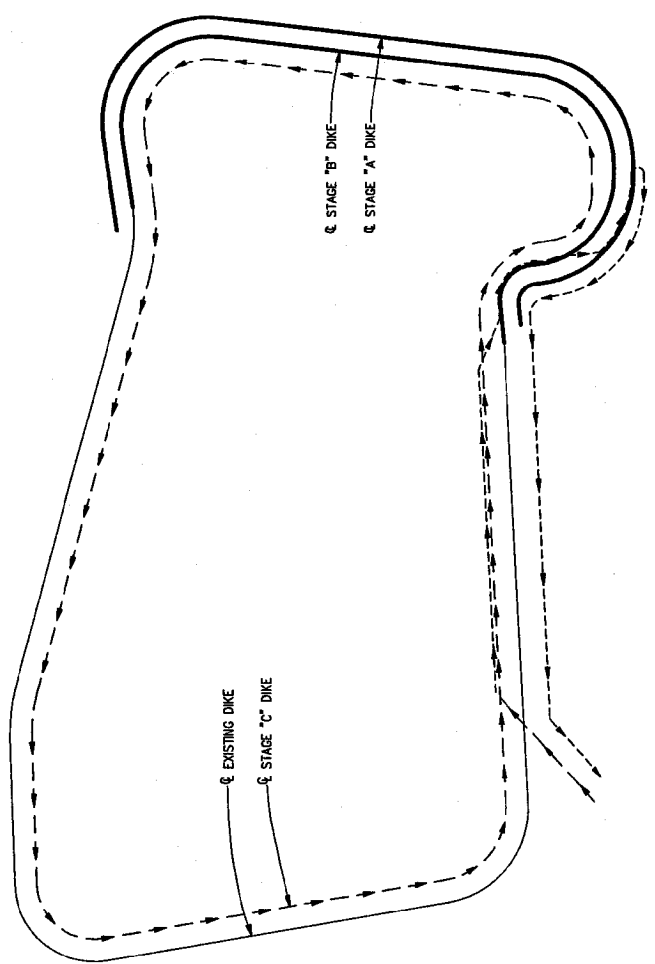
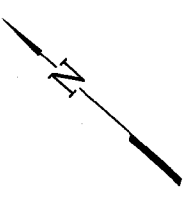
B

C

D

E

F



NO.	DATE	BY	CHKD	APP'D	REV
1	10/25/20	B.K. ELDER	G. CLAWSON	H.L. PETTY	K. W. BURNETT
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

SCALE: 1"=200'

YARD

DREDGE CELLS
EQUIPMENT ROUTING AND
HAUL ROAD DETAILS

DESIGNED BY: B.K. ELDER
CHECKED BY: G. CLAWSON
APPROVED BY: H.L. PETTY
DATE: 10/25/20

DESIGNED BY: K. W. BURNETT
CHECKED BY: J. G. JOHNSON
APPROVED BY: W.D. HALL
DATE: 10/25/20

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE: 38 | C | 10W425-18

PLOT FACTOR: 1=1
W.L.T.M.

R D

10/25-20 1 2 3 4 5 6 7 8 9 10 11 12

TASK COMPLETED BY: _____ REV. NO. _____

C.A.G. DRAWING
DO NOT ALTER MANUALLY

DRAWING INDEX

DRAWING NO.	DRAWING TITLE
10W425-20	DREDGE CELL LATERAL EXPANSION INDEX AND LEGEND
10W425-21	DREDGE CELL LATERAL EXPANSION SITE LOCATION PLAN
10W425-22	DREDGE CELL LATERAL EXPANSION PHASING SHEET 1
10W425-23	DREDGE CELL LATERAL EXPANSION PHASING SHEET 2
10W425-24	PHASE 1 DREDGE CELL LATERAL EXPANSION LAYOUT PLAN SHEET 1
10W425-25	PHASE 2 DREDGE CELL LATERAL EXPANSION LAYOUT PLAN SHEET 2
10W425-26	DREDGE CELL EXISTING CONDITIONS AND DRAINAGE LAYER SHEET 1
10W425-27	DREDGE CELL EXISTING CONDITIONS AND DRAINAGE LAYER SHEET 2
10W425-28	DREDGE CELL EXISTING CONDITIONS AND DRAINAGE LAYER SHEET 3
10W425-29	DREDGE CELL EXISTING CONDITIONS AND DRAINAGE LAYER SHEET 4
10W425-30	DREDGE CELL EXISTING CONDITIONS AND DRAINAGE LAYER SHEET 5
10W425-31	DREDGE CELL EXISTING CONDITIONS AND DRAINAGE LAYER SHEET 6
10W425-32	DREDGE CELL EXISTING CONDITIONS AND DRAINAGE LAYER SHEET 7
10W425-33	DREDGE CELL EXISTING CONDITIONS AND DRAINAGE LAYER SHEET 8
10W425-34	DREDGE CELL LATERAL EXPANSION STAGE 1 SHEET 1 (685-780)
10W425-35	DREDGE CELL LATERAL EXPANSION STAGE 1 SHEET 2
10W425-36	DREDGE CELL LATERAL EXPANSION STAGE 1 SHEET 3
10W425-37	DREDGE CELL LATERAL EXPANSION STAGE 1 SHEET 4
10W425-38	DREDGE CELL LATERAL EXPANSION STAGE 2 SHEET 1 (780-810)
10W425-39	DREDGE CELL LATERAL EXPANSION STAGE 2 SHEET 2
10W425-40	DREDGE CELL LATERAL EXPANSION STAGE 2 SHEET 3
10W425-41	DREDGE CELL LATERAL EXPANSION STAGE 2 SHEET 4
10W425-42	EXISTING DREDGE CELL STAGE 3 SHEET 1 (810-840)
10W425-43	EXISTING DREDGE CELL STAGE 3 SHEET 2 (810-840)
10W425-44	DREDGE CELL LATERAL EXPANSION STAGE 3 SHEET 1 (810-840)
10W425-45	DREDGE CELL LATERAL EXPANSION STAGE 3 SHEET 2 (810-840)
10W425-46	DREDGE CELL LATERAL EXPANSION STAGE 3 SHEET 3 (810-840)
10W425-47	DREDGE CELL LATERAL EXPANSION STAGE 3 SHEET 4 (810-840)
10W425-48	EXISTING DREDGE CELL STAGE 4 SHEET 1 (840-888)
10W425-49	EXISTING DREDGE CELL STAGE 4 SHEET 2
10W425-50	DREDGE CELL LATERAL EXPANSION STAGE 4 SHEET 3 (840-870)
10W425-51	DREDGE CELL LATERAL EXPANSION STAGE 4 SHEET 4 (840-870)
10W425-52	DREDGE CELL LATERAL EXPANSION STAGE 4 SHEET 5
10W425-53	DREDGE CELL LATERAL EXPANSION STAGE 4 SHEET 6
10W425-54	DREDGE CELL LATERAL EXPANSION STAGE 5 SHEET 1 (EL 870-900)
10W425-55	DREDGE CELL LATERAL EXPANSION STAGE 5 SHEET 2 (EL 870-900)
10W425-56	DREDGE CELL LATERAL EXPANSION STAGE 5 SHEET 3
10W425-57	DREDGE CELL LATERAL EXPANSION STAGE 5 SHEET 4
10W425-58	DREDGE CELL LATERAL EXPANSION STAGE 6 SHEET 1 (900-960)
10W425-59	DREDGE CELL LATERAL EXPANSION STAGE 6 SHEET 2
10W425-60	DREDGE CELL LATERAL EXPANSION STAGE 6 SHEET 3
10W425-61	DREDGE CELL LATERAL EXPANSION STAGE 6 SHEET 4
10W425-62	DREDGE CELL LATERAL EXPANSION SECTIONS SHEET 1
10W425-63	DREDGE CELL DREDGED FLY ASH/DRY FLY ASH DISPOSAL OPTION SECTIONS SHEET 2
10W425-64	DREDGE CELL EXPANSION DREDGED FLY ASH/DRY FLY ASH DISPOSAL OPTION SHEET 1
10W425-65	DREDGE CELL LATERAL EXPANSION PHASE 2/3 TYPICAL CROSS SECTION & DETAILS
10W425-66	DREDGE CELL LATERAL EXPANSION DETAILS SHEET 1
10W425-67	DREDGE CELL LATERAL EXPANSION METAL SPILLWAY DETAILS SHEET 2
10W425-68	DREDGE CELL LATERAL EXPANSION PHASE 2/3 TYPICAL CROSS SECTION & DETAILS
10W425-69	DREDGE CELL LATERAL EXPANSION DETAILS MET CAST GYPSUM DIKE RAISING SHEET 4
10W425-70	ASH DISPOSAL AREA LATERAL EXPANSION WEIR & SKIMMER DETAILS
10W425-71	LATERAL EXPANSION DITCH DETAILS & MISC DETAILS SHEET 1
10W425-72	DREDGE CELL EXPANSION TYPICAL EXPANSION TYPICAL SECTIONS - FLY ASH OPTION STAGES 1-5
10W425-73	EXISTING DREDGE CELL UNDERDRAIN INSTALLATION ON EXISTING SLOPE EL 780-795
10W425-74	DREDGE CELL LATERAL EXPANSION COMPACTED CLAY DETAILS FINAL COVER
10W425-75	DREDGE CELL LATERAL EXPANSION GEOCOMPOSITE FINAL COVER DETAILS
10W425-76	DREDGE CELL LATERAL EXPANSION FINAL COVER DRAINAGE PLAN AND SCHEDULE
10W425-77	DREDGE CELL LATERAL EXPANSION WEIR REPLACEMENT OVERALL PLAN
10W425-78	DREDGE CELL LATERAL EXPANSION WEIR REPLACEMENT INITIAL DIKE LAYOUT
10W425-79	DREDGE CELL LATERAL EXPANSION WEIR REPLACEMENT FINAL DIKE & WEIR LAYOUT
10W425-80	DREDGE CELL LATERAL EXPANSION WEIR REPLACEMENT CROSS SECTION & DETAILS
10W425-81	INLET WATER CONTROL STRUCTURE DETAIL

BENCH MARKS

STATION	NORTHING	EASTING	ELEVATION
ASH-10	N 555847.26	E 2440155.92	795.44
ASH-25	N 554992.49	E 2440317.38	795.07
ASH-26	N 556411.74	E 2440890.62	794.13
ASH-27	N 555650.29	E 2442863.70	783.48
ASH-28	N 553804.15	E 2441106.67	765.01
ASH-29	N 554404.56	E 2441901.54	763.58
ASH-3	N 554059.57	E 2442837.34	785.03
ASH-30	N 555663.76	E 2440392.74	804.90
ASH-4	N 555226.29	E 2442833.17	764.73
BM-3	N 554448.02	E 2441855.56	764.54

SOIL BORING NEW

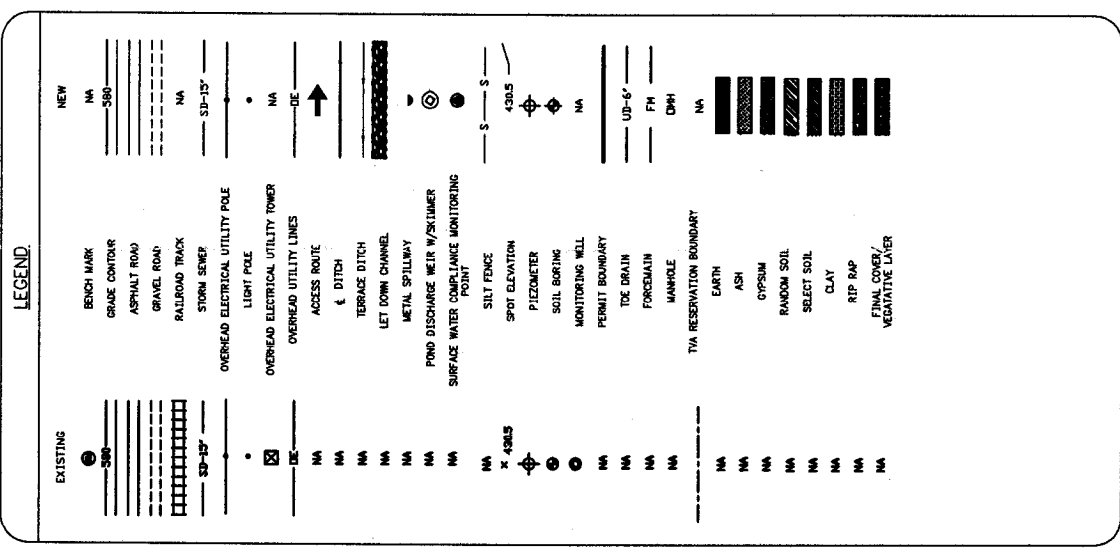
STATION	NORTHING	EASTING	ELEVATION
B1	N 556952.5	E 2439763.5	781.8
B2	N 556902.7	E 2439813.7	795.3
B-3	N 556658.8	E 2439865.4	810.8
B-4	N 556619.1	E 2440896.8	810.6
B-5	N 55593.8	E 2440245.5	810.2
B-5A	N 55596.7	E 2440246.9	810.2
B-6	N 555292.2	E 2439807.6	809.3
B-8A	N 554787.1	E 2440526.3	773.9
B-9	N 554857.6	E 2442197.4	764.4
B-10	N 554428.1	E 2441665.3	782.6
B-11	N 554780.7	E 2442843.6	765.0
B-12	N 556266.2	E 2442463.6	763.9

MONITORING WELLS

STATION	NORTHING	EASTING
6A	N 554403	E 2442881
4B	N 558118	E 2440584
16A	N 556533	E 2439081
13B	N 554657	E 2440311

SOIL BORING EXISTING

STATION	NORTHING	EASTING	ELEVATION
SS-35	N 554375	E 2442873	795.44
SS-36	N 554516	E 2442871	795.07
SS-37	N 554271	E 2442874	794.13
SS-38	N 554439	E 2442892	763.48
AH-1	N 554084	E 2442869	765.01
AH-2	N 554714	E 2442873	763.58
AH-3	N 554917	E 442874	785.03
AH-4	N 555118	E 2442875	804.90
AH-5	N 555226	E 2442882	764.73
AH-6	N 555906	E 2442732	784.54
AH-7	N 555985	E 2442599	785.44
AH-8	N 556364	E 2442464	795.07
AH-9	N 556743	E 2442328	794.13
AH-10	N 557082	E 2441985	763.48
AH-11	N 557335	E 2441532	765.01
AH-12	N 557808	E 2440750	763.58
AH-13	N 553906	E 2442640	785.03
AH-14	N 553673	E 2441862	804.90



DREDGE CELL LATERAL EXPANSION INDEX AND LEGEND

DESIGNED BY: D.E. SMITH
 CHECKED BY: B.S. BERT
 DRAWN BY: R.P. TAYLOR
 REVISIONS BY: H.L. PERRY, E.E. PURKEY, D.L. LUNDY
 APPROVED BY: KINGSTON FOSSIL PLANT, TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14
 SCALE: NONE
 YARD
 EXCEPT AS NOTED

TASK COMPLETED BY: PARSONS
 REV. NO. 0

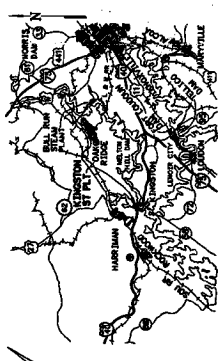
PLOT FACTOR: 1
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 10W425-20
 R 0
 S.A.S. DRAWINGS
 DO NOT ALTER MANUALLY

36 C 10W425-21

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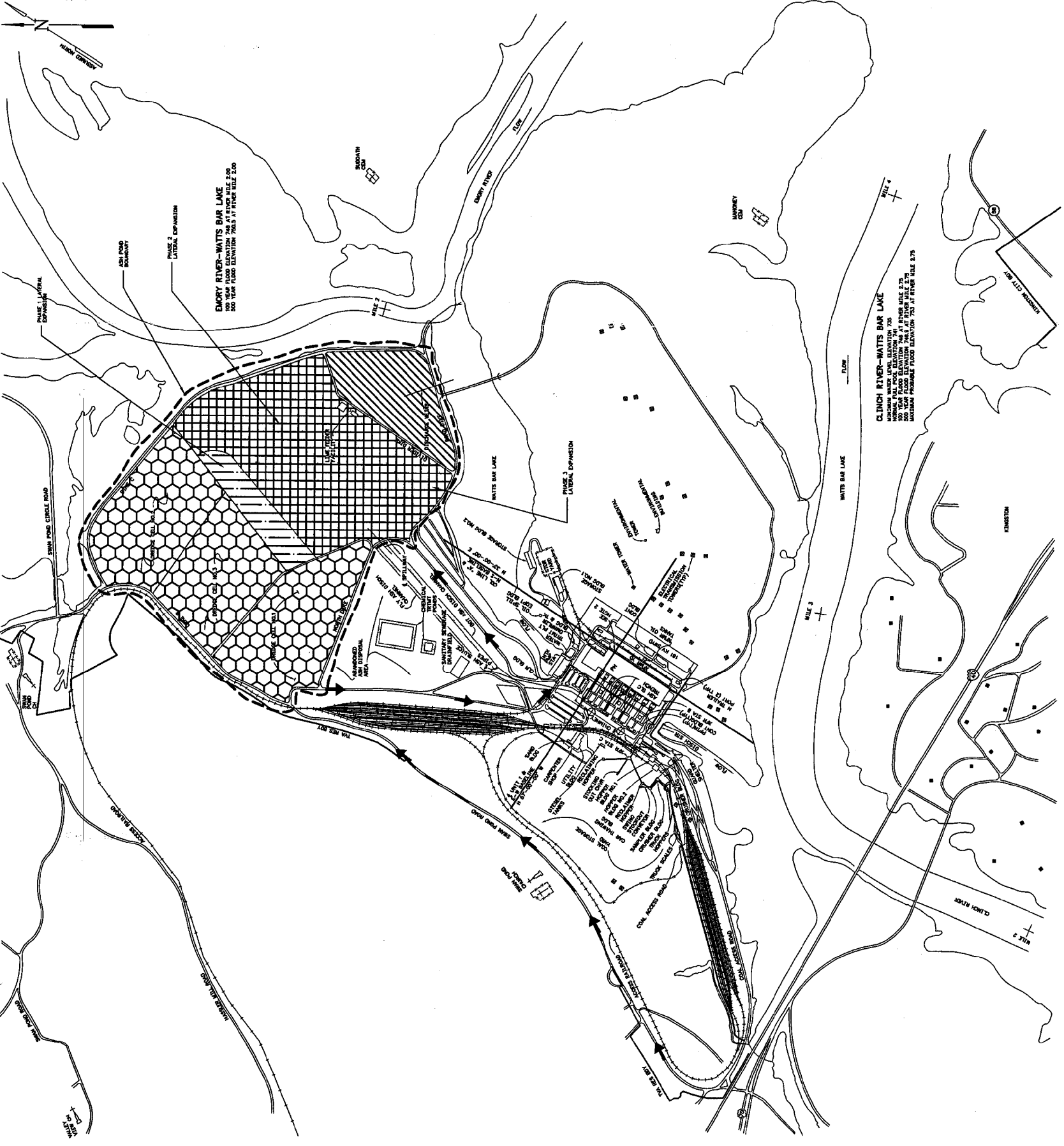
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LEGEND

	EXISTING DREDGE CELLS
	PHASE 1 LATERAL EXPANSION
	STILLING BASIN
	DREDGE CELL LATERAL EXPANSION PHASE 2



SITE PLAN - KINGSTON FOSSIL PLANT

DESIGNED BY	D.S. SMITH	CHECKED BY	H.L. PETTY	DATE	10/28/81
DESIGNED FOR	FOR DREDGE CELL EXPANSION	APPROVED BY	R.E. FERREY	DATE	10/28/81
SCALE	1"=100'	APPROVED BY	J.E. MAIER	DATE	10/28/81
EXCEPT AS NOTED					
YARD					
DREDGE CELL LATERAL EXPANSION SITE LOCATION PLAN					
KINGSTON FOSSIL PLANT TENNESSEE VALLEY AUTHORITY FOSSIL AND HYDRO ENGINEERING					
AUTOCAD FILE	04/28/81	36	C	10W425-21	R 0
PLOT FACTOR: 1200 W.TVA					
THIS DRAWING HAS BEEN DEVELOPED FROM: (10W200-01 R4)					
TASK COMPLETED BY:	PARSONS	REV. NO.	0		

TOPOGRAPHY TRACED BY W.P. TERRY 1/29/78

22-527M01 C 96

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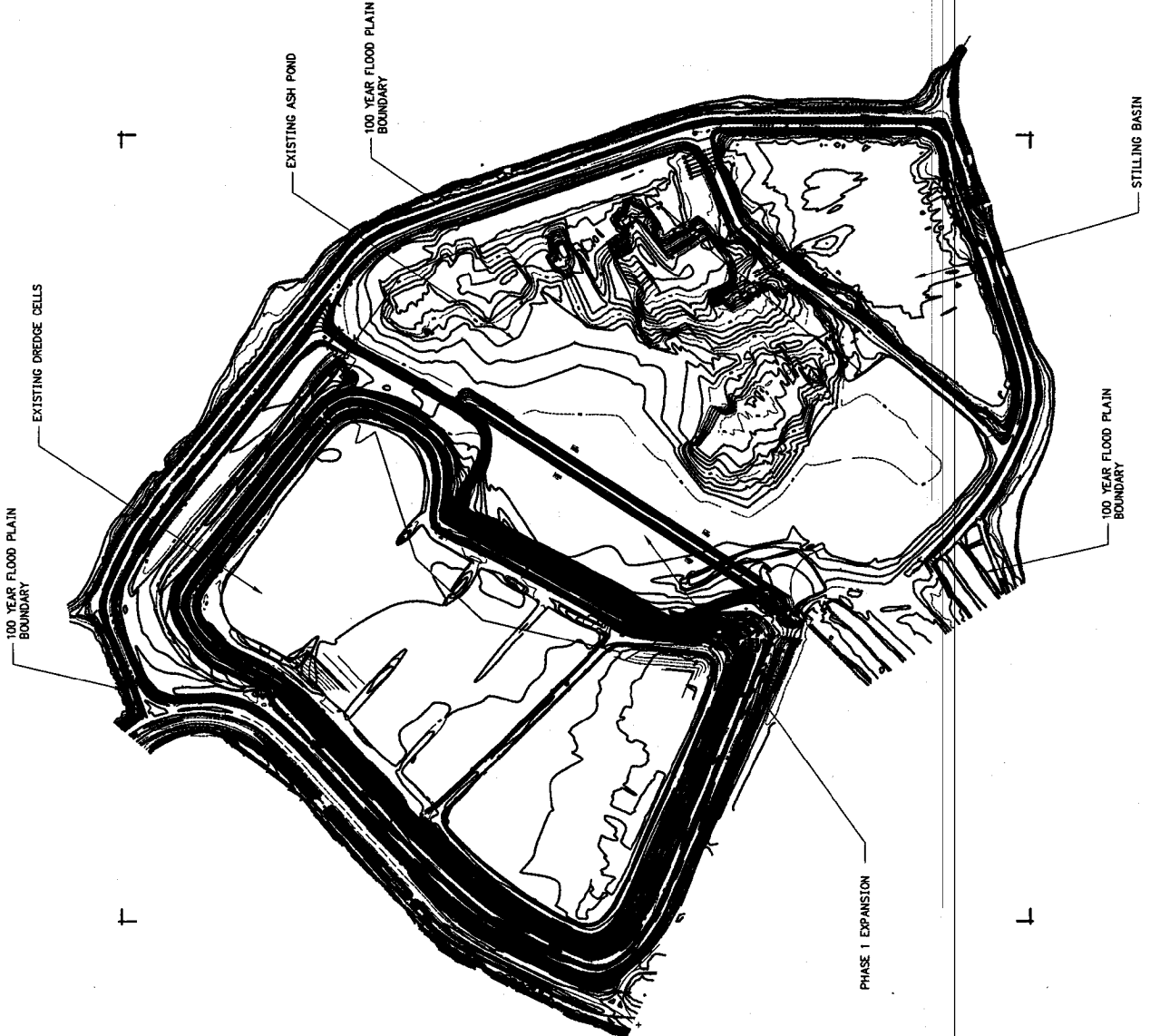
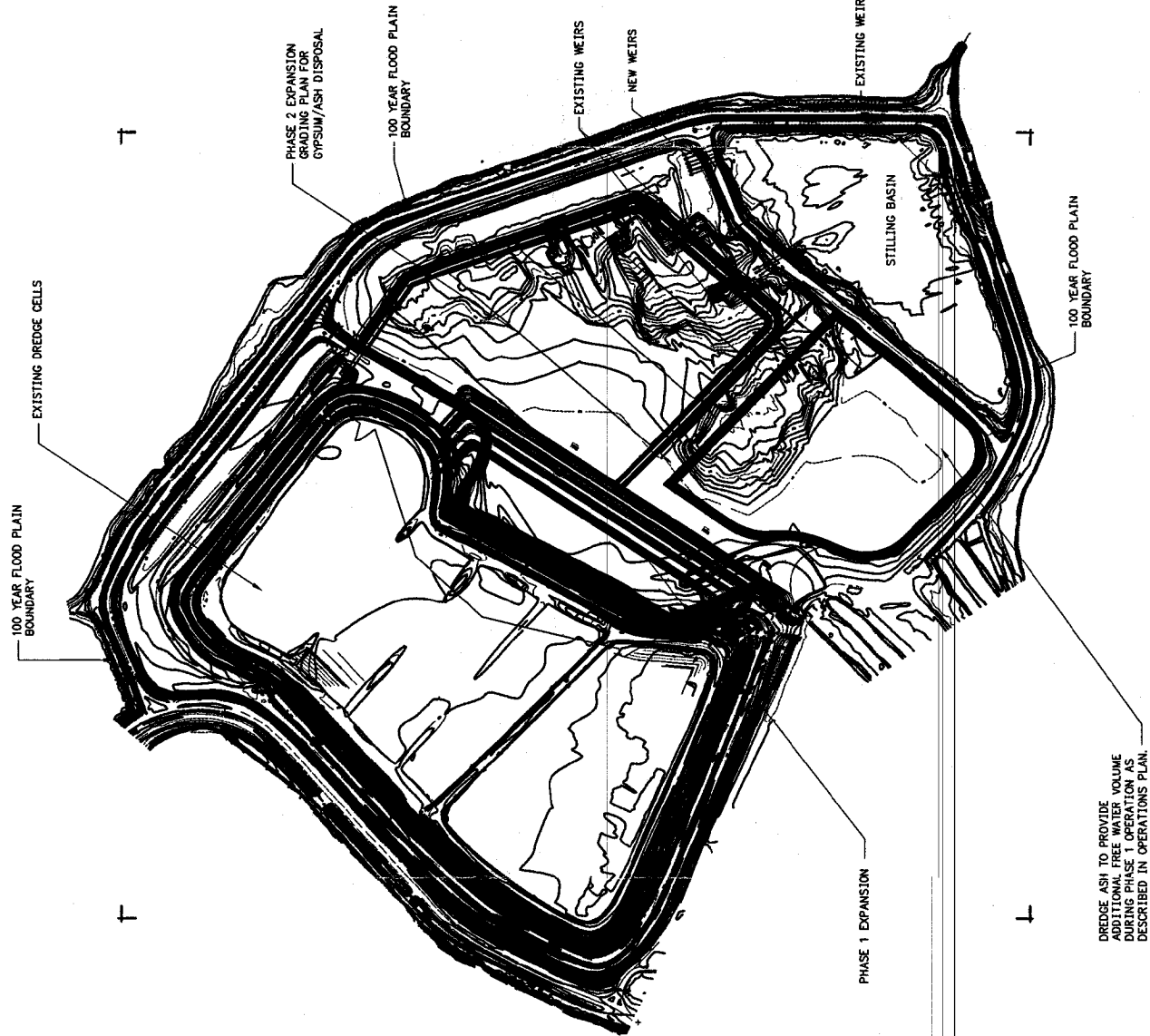
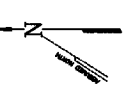
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DREDGE ASH TO PROVIDE ADDITIONAL FREE WATER DURING PHASE 1 OPERATION AS DESCRIBED IN OPERATIONS PLAN.

NOTES:

- FOR DRAWING INDEX AND LEGEND, SEE DRAWING 10W425-20.
- DRAWINGS 10W425-22 AND -23 DEPICT PHASING OF EXPANSION CONSTRUCTION. CONSTRUCTION DRAWINGS BEGIN WITH 10W425-26.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

DESIGNED BY	D.E. SMITH	CHECKED BY	B.F. TAYLOR	INVESTIGATED BY	J.L. HANER	DATE	10/11/04
ISSUED FOR	DREDGE CELL EXPANSION	DATE	10/11/04	SCALE	1"=300'	EXCEPT AS NOTED	

DREDGE CELL
LATERAL EXPANSION
PHASING SHEET 1

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE 36 C 10W425-22 R 0

PHASE 2 EXPANSION

EXISTING CONDITIONS 2004

PLOT FACTOR: 300 W_TVA

PARSONS TASK COMPLETED BY: 0 REV. NO.

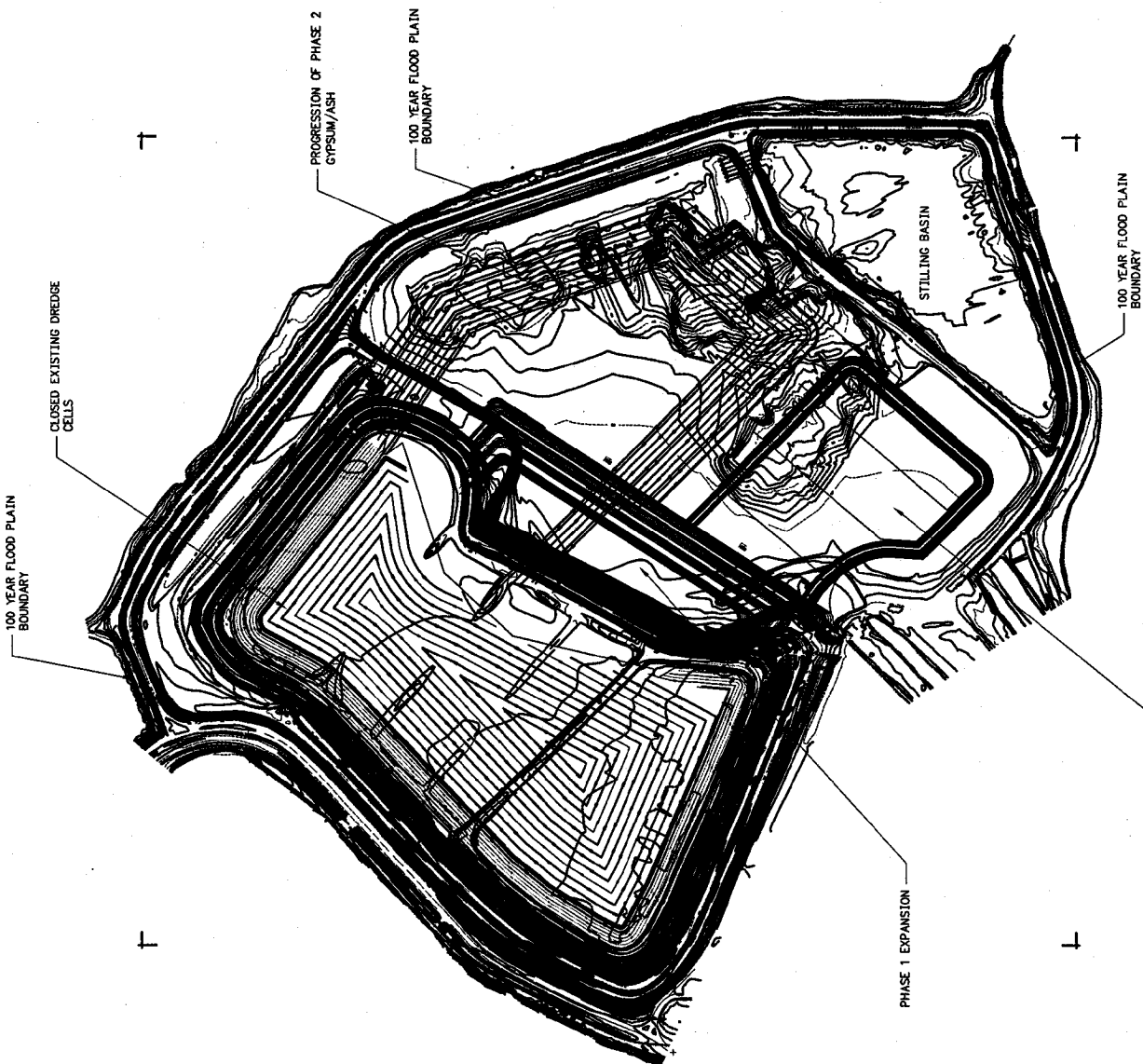
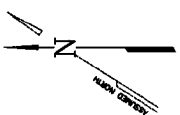
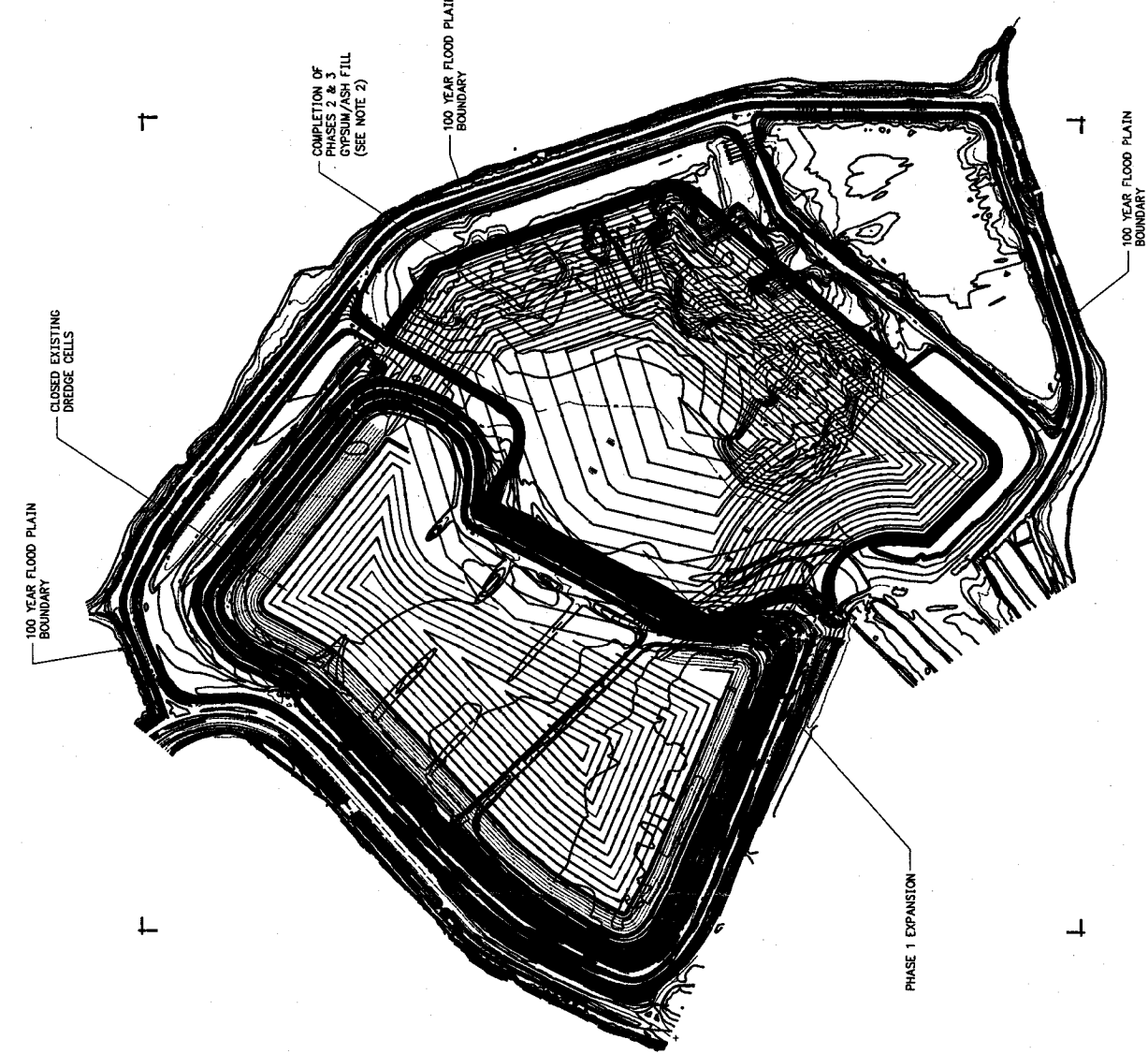
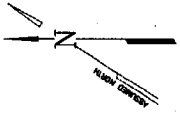
1 2 3 4 5 6 7 8

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C.A.D. DRAWING DO NOT ALTER MANUALLY

NOTES:
 1. FOR NOTES SEE 10W425-22.
 2. PHASE 2/3 CAN BE FILLED WITH DREDGED FLY ASH AND DRY FLY ASH. SEE 10W425-64 FOR A CROSS SECTION DEPICTING FLY ASH PLACEMENT.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



DESIGNED BY	DATE	CHKD BY	DATE	APP'D BY	DATE	PROJECT	AS NOTED
D.L. SMITH	08/08/00	M.P. TAYLOR	08/08/00	R.E. PARKER	08/08/00	EMORY RIVER WATTS BAR LAKE	EXCEPT AS NOTED
SCALE: 1"=300'							
YARD							

**DREDGE CELL
 LATERAL EXPANSION
 PHASING SHEET 2**

DESIGNED BY: D.L. SMITH
 CHECKED BY: M.P. TAYLOR
 APPROVED BY: R.E. PARKER
 KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE: 08/08/00
 PLOT FACTOR: 300
 W_LVA
 10W425-23
 R O

PROPOSED FINAL GRADE OF
 LATERAL EXPANSION

PHASE 2 - START OF PHASE 3
 EXPANSION

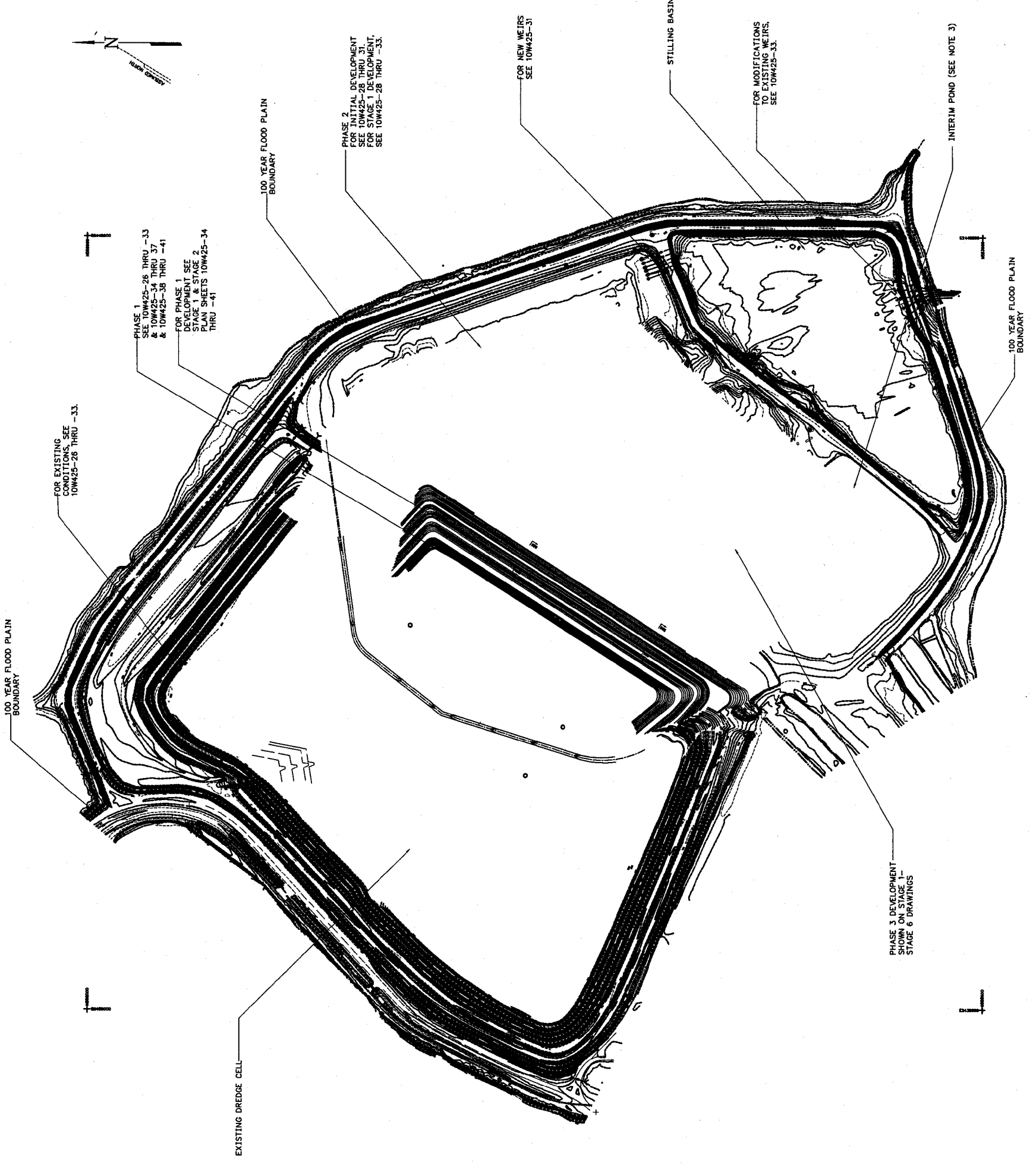
PARSONS	0
TASK COMPLETED BY:	REV. NO.

PLOT FACTOR: 300
 W_LVA
 10W425-23
 R O
 C.A.D. DRAWING
 DO NOT ALTER MANUALLY

36 C 10W425-24

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NOTES:

1. FOR DRAWING INDEX AND LEGEND, SEE DRAWING 10W425-20.
2. DRAWINGS 10W425-24 AND -25 DEPICT PHASED CONSTRUCTION INFORMATION. INITIAL CONSTRUCTION DRAWINGS BEGIN WITH 10W425-26.
3. FOR INTERIM POND DEVELOPMENT, SEE NOTE 3 ON 10W425-28.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

NO.	DATE	BY	CHKD	APPD	PROJCT	AS CORRD
1	08/11/00	D.E. SMITH	B.S. BRET	R.F. TAYLOR	H.L. PETTY	J.G. ADAIR

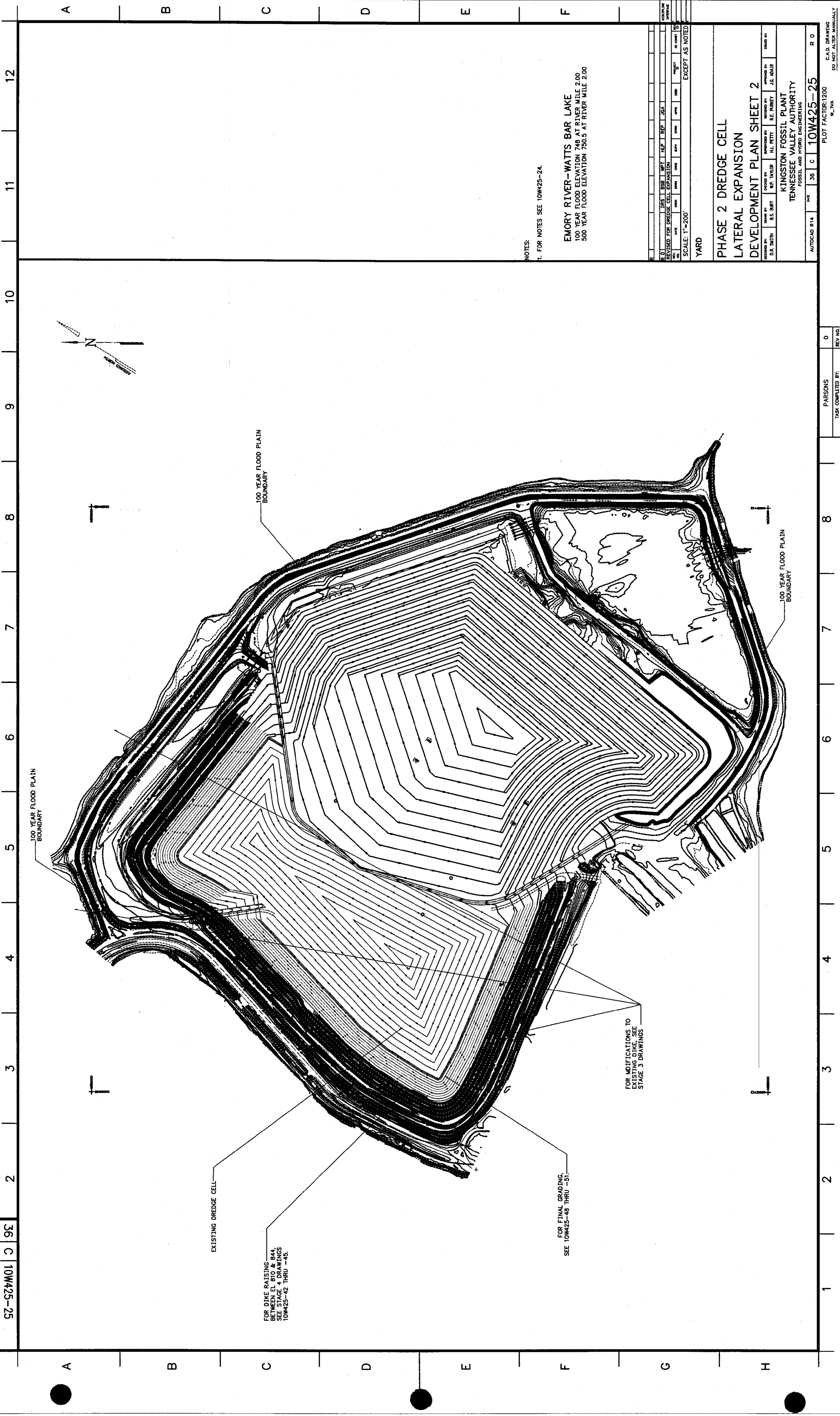
SCALE: 1"=200'
 YARD
 EXCEPT AS NOTED

**PHASE 1 DREDGE CELL
 LATERAL EXPANSION
 DEVELOPMENT PLAN SHEET 1**

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14
 W.TVA
 PLOT FACTOR: 1200
 10W425-24
 R.D.

TASK COMPLETED BY:	PARSONS	REV. NO.
	0	



57-527M01 C 9C

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NOTES:
1. FOR NOTES SEE 10W425-24.

EMORY RIVER-WATTS BAR LAKE
100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

DATE	BY	CHKD	APPD	REVISION
10/15/83	J.E. PETTY	J.C. ANUR		REVISED FOR DREDGE CELL EXPANSION
08/15/83	J.E. PETTY	J.C. ANUR		DESIGNED
08/15/83	J.E. PETTY	J.C. ANUR		DRAWN
08/15/83	J.E. PETTY	J.C. ANUR		CHECKED
08/15/83	J.E. PETTY	J.C. ANUR		APPROVED

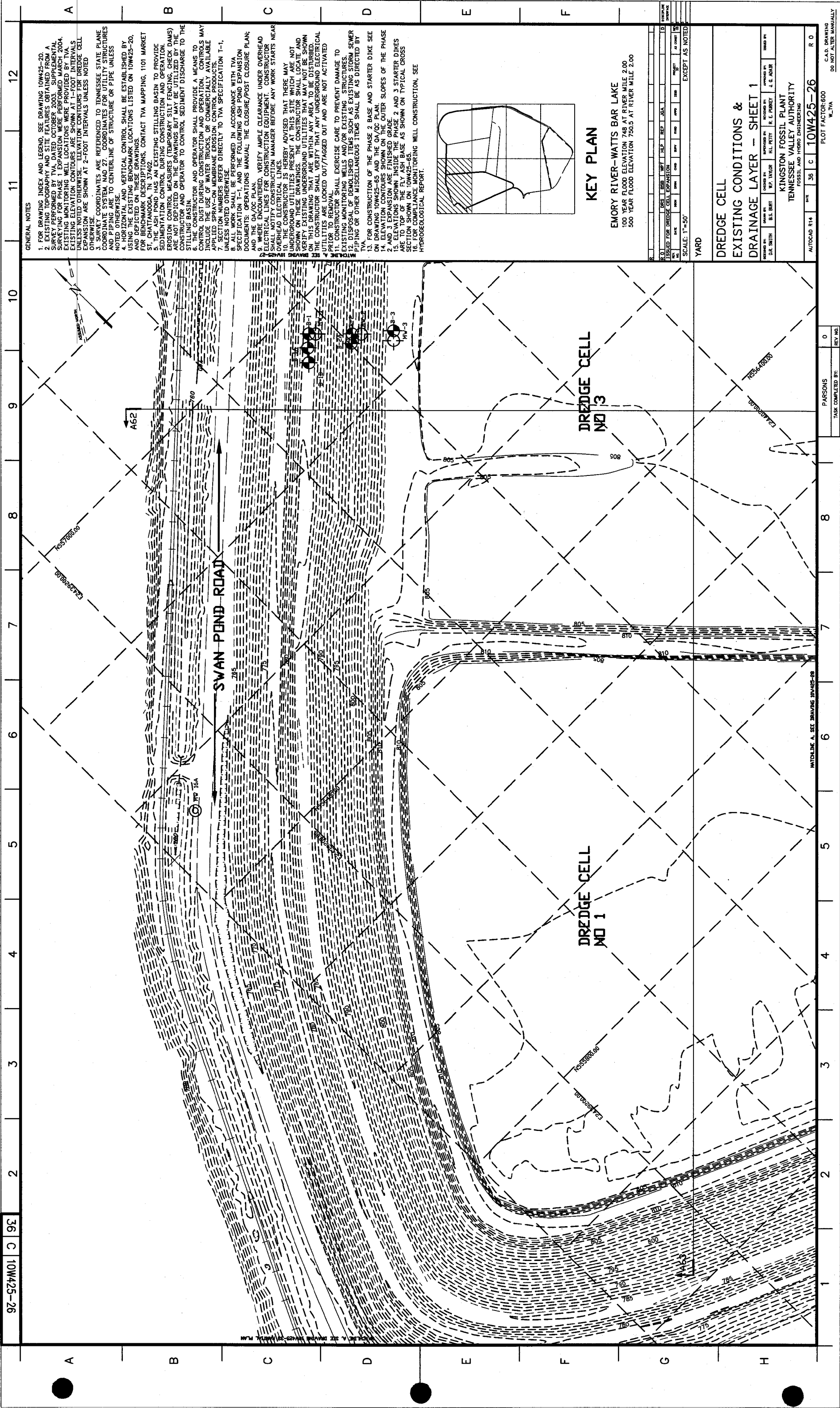
SCALE: 1"=200'
YARD
EXCEPT AS NOTED

PHASE 2 DREDGE CELL
LATERAL EXPANSION
DEVELOPMENT PLAN SHEET 2

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

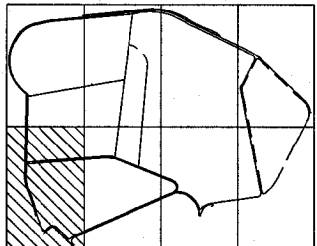
AUTOCAD R14
PLOT FACTOR: 1200
10W425-25
R 0

PARSONS
TASK COMPLETED BY: 0
REV NO.



GENERAL NOTES

- FOR DRAWING INDEX AND LEGEND, SEE DRAWING 10W425-20.
- EXISTING TOPOGRAPHY AND SITE FEATURES OBTAINED FROM A SURVEY PERFORMED BY TVA, DATED OCTOBER 2003. SUPPLEMENTAL SURVEYING FOR PHASE 1 EXPANSION WERE PERFORMED MARCH 2004. EXISTING MONITORING WELL LOCATIONS WERE PROVIDED BY TVA. EXISTING ELEVATION CONTOURS ARE SHOWN AT 1-FOOT INTERVALS UNLESS NOTED OTHERWISE. ELEVATION CONTOURS FOR DREDGE CELL EXPANSION ARE SHOWN AT 2-FOOT INTERVALS UNLESS NOTED OTHERWISE.
- SURVEY COORDINATES ARE REFERENCED TO TENNESSEE STATE PLANE COORDINATE SYSTEM, NAD 27. COORDINATES FOR UTILITY STRUCTURES AND PIPING ARE TO CENTERLINE OF STRUCTURE OR PIPE UNLESS NOTED OTHERWISE.
- HORIZONTAL AND VERTICAL CONTROL SHALL BE ESTABLISHED BY THE CONSTRUCTOR. CONTROL POINTS SHALL BE LISTED ON 10W425-20, AND BE IDENTIFIED ON THESE DRAWINGS.
- FOR BENCHMARK DESCRIPTIONS, CONTACT TVA MAPPING, 1101 MARKET ST., CHATTANOOGA, TN 37402.
- THE ASH POND HAS AN EXISTING STILLING BASIN TO PROVIDE SEDIMENTATION CONTROL DURING CONSTRUCTION AND OPERATION. EROSION CONTROL MEASURES (TEMPORARY SILT FENCING, CHECK DAMS) SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE PROJECT. THE CONSTRUCTOR AND OPERATOR TO CONTROL SEDIMENT DISCHARGE TO THE STILLING BASIN.
- THE CONSTRUCTOR AND OPERATOR SHALL PROVIDE A MEANS TO CONTROL DUST DURING CONSTRUCTION AND OPERATION. CONTROLS MAY INCLUDE THE USE OF WATER TRUCKS, OR COMMERCIALLY AVAILABLE APPLIED SPRAY-ON MEMBRANE EROSION CONTROL PRODUCTS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH TVA SPECIFICATION T-1, AND THE FOLLOWING ASH POND EXPANSION DOCUMENTS: OPERATIONS MANUAL; THE CLOSURE/POST CLOSURE PLAN; AND THE O&C PLAN.
- WHERE ENCOUNTERED, VERIFY AMPLE CLEARANCE UNDER OVERHEAD ELECTRICAL LINES FOR CONSTRUCTION EQUIPMENT. CONSTRUCTOR SHALL VERIFY CLEARANCE UNDER OVERHEAD ELECTRICAL LINES BEFORE ANY WORK STARTS NEAR THESE LINES.
- THE CONSTRUCTOR IS HEREBY ADVISED THAT THERE MAY BE UNDERGROUND UTILITIES PRESENT AT THIS SITE WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONSTRUCTOR SHALL LOCATE AND VERIFY EXISTING UNDERGROUND UTILITIES THAT MAY NOT BE SHOWN ON THESE DRAWINGS. UTILITIES THAT ARE THIN AND/OR DISPERSED UTILITIES ARE LOCKED OUT/TAGGED OUT AND ARE NOT ACTIVATED PRIOR TO REMOVAL.
- CONSTRUCTOR SHALL EXERCISE CARE TO PREVENT DAMAGE TO EXISTING MONITORING WELLS AND/OR EXISTING STRUCTURES.
- DISPOSAL OF DEMOLISHED ITEMS SUCH AS EXISTING STORM SEWER PIPING OR OTHER MISCELLANEOUS ITEMS SHALL BE AS DIRECTED BY THE CONSTRUCTOR.
- FOR CONSTRUCTION OF THE PHASE 2 BASE AND STARTER DIKE SEE DRAWING 10W425-85 AND THE O&C PLAN.
- ELEVATION CONTOURS SHOWN ON THE OUTER SLOPES OF THE PHASE 2 AND 3 EXPANSION ARE FINISHED GRADE.
- ELEVATIONS SHOWN INSIDE THE PHASE 2 AND 3 STARTER DIKES ARE TO TOP OF THE FLY ASH BASE AS SHOWN ON TYPICAL CROSS SECTION SHOWN ON 10W425-85.
- FOR MONITORING WELL CONSTRUCTION, SEE HYDROGEOLOGICAL REPORT.



EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

NO.	DATE	BY	CHKD	APPD	REVISION
1	03/04	D.E. SMITH	B.S. BREY	H.L. PERRY	ISSUED FOR DREDGE CELL EXPANSION
2	03/04	H.L. PERRY	R.E. FURBER	J.G. ADOR	AS CORRECTED

SCALE: 1"=50'

YARD

DREDGE CELL
EXISTING CONDITIONS & DRAINAGE LAYER - SHEET 1

DESIGNED BY: B.S. BREY
 CHECKED BY: H.L. PERRY
 APPROVED BY: R.E. FURBER
 DRAWN BY: D.E. SMITH

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE: 3/6 C. 10W425-26 PLOT FACTOR: 800 W.TVA
 R.O. C.A.D. DRAWING DO NOT ALTER MANUALLY

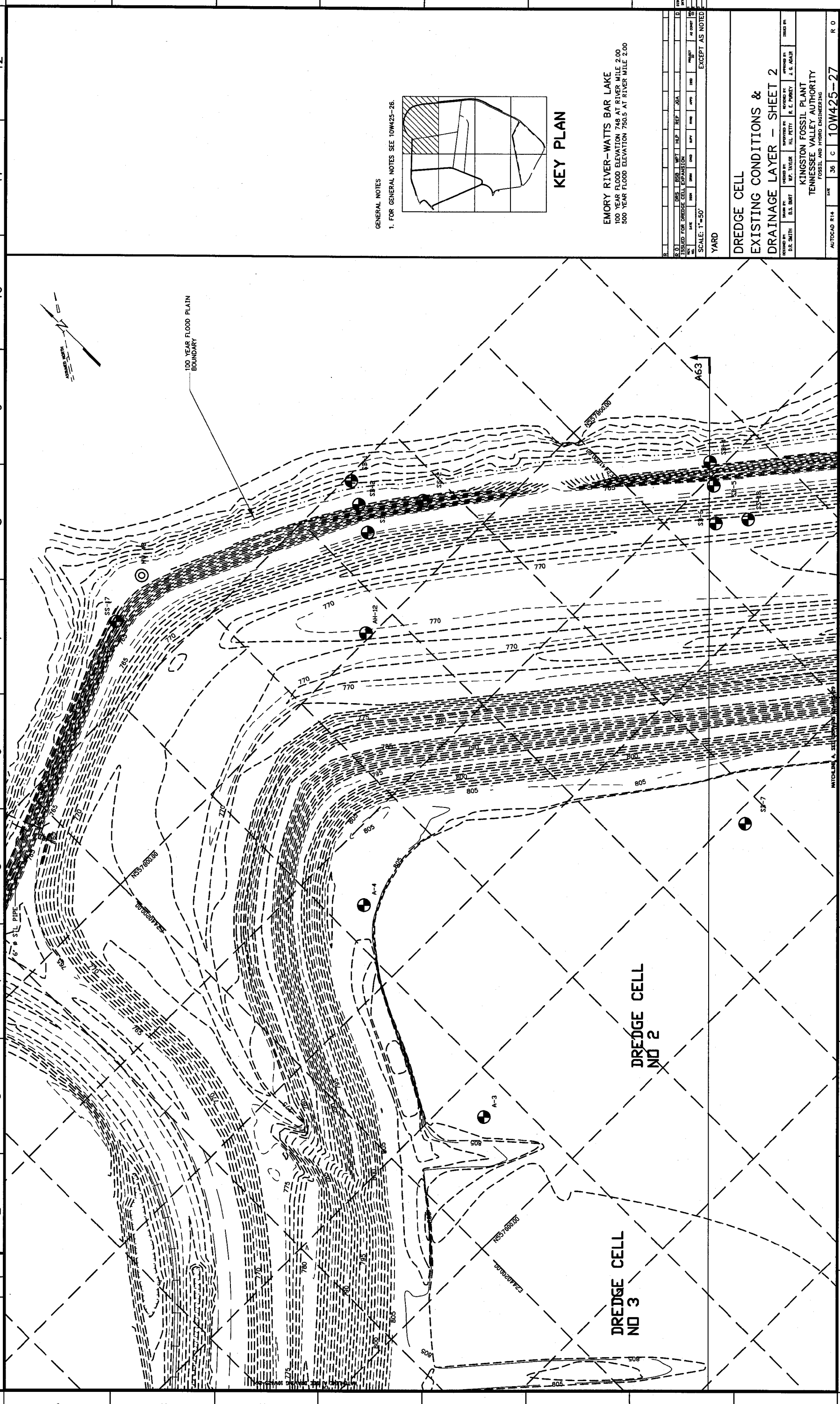
36 C 10W425-26

TASK COMPLETED BY:	PARSONS	REV. NO.	0
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LZ-527M01 C 93

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A B C D E F G H



GENERAL NOTES
1. FOR GENERAL NOTES SEE 10W425-26.



KEY PLAN

EMORY RIVER-WATTS BAR LAKE
100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

REV.	DATE	BY	CHKD.	APP'D.	PROJECT	SCALE
1						EXCEPT AS NOTED

YARD

DREDGE CELL

EXISTING CONDITIONS & DRAINAGE LAYER - SHEET 2

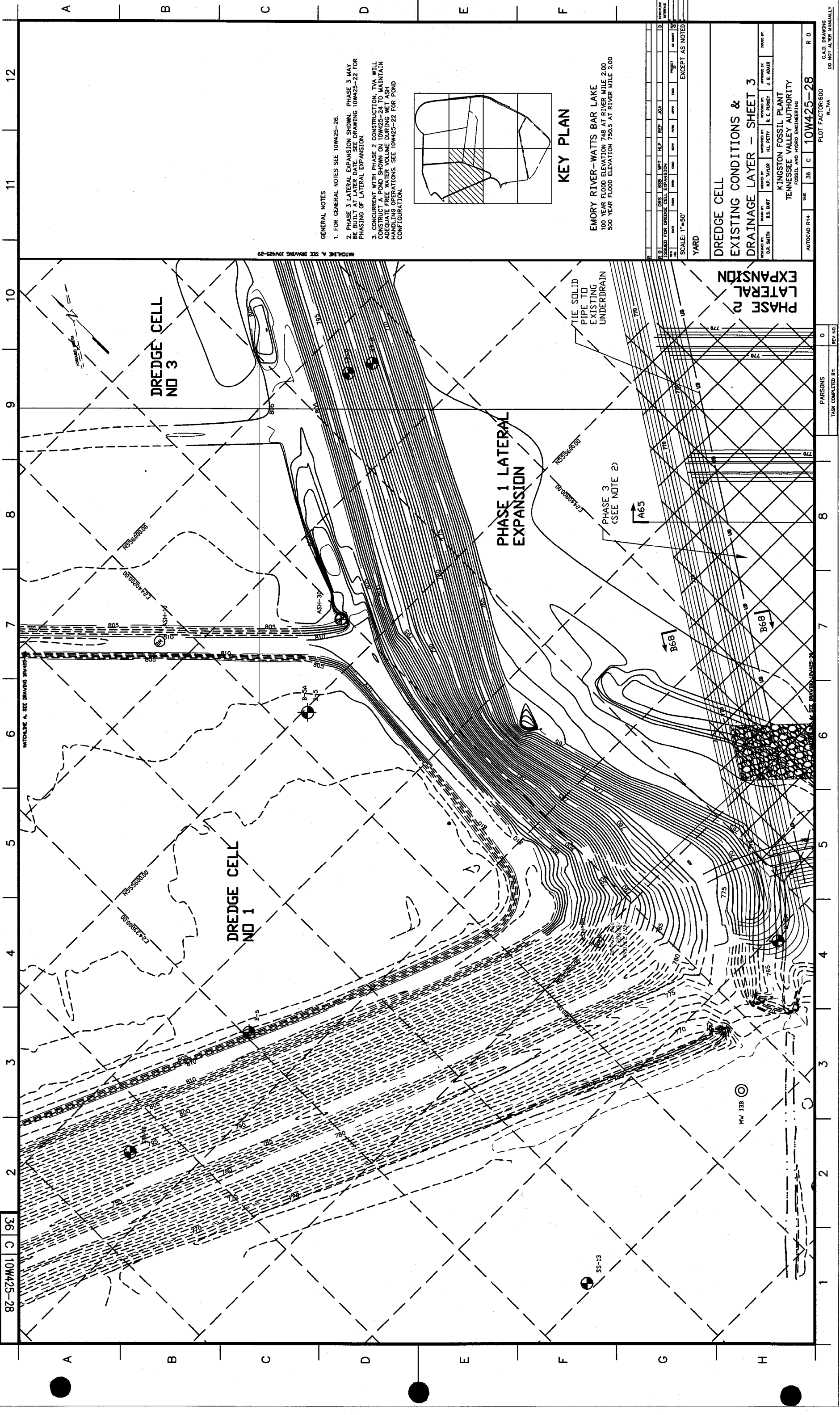
DESIGNED BY: D.A. SMITH
 CHECKED BY: M.P. TAYLOR
 DRAWN BY: M.P. TAYLOR
 REVISIONS BY: K.E. PARSONS, J.G. ADAIR

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14
 PLOT FACTOR: 600
 W_L_TVA
 10W425-27
 R.O.

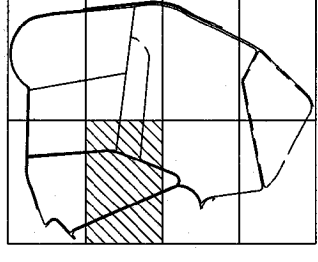
C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY:	REV. NO.
PARSONS	0



36 C 10W425-28

GENERAL NOTES
 1. FOR GENERAL NOTES SEE 10W425-26.
 2. PHASE 3 LATERAL EXPANSION SHOWN. PHASE 3 MAY BE PHASING OF LATERAL EXPANSION.
 3. CONCURRENT WITH PHASE 2 CONSTRUCTION, TVA WILL CONSTRUCT A POND SHOWN ON 10W425-24 TO MAINTAIN ADEQUATE FREE WATER VOLUME DURING WET ASH HANDLING OPERATIONS. SEE 10W425-22 FOR POND CONFIGURATION.



EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

DATE	ISSUED FOR	BY	APP'D	SCALE
08/20/88	DRS BSB	REP. J.A.	REP. J.A.	1"=50'
08/20/88	ISSUED FOR	BY	APP'D	SCALE
08/20/88	DRS BSB	REP. J.A.	REP. J.A.	1"=50'

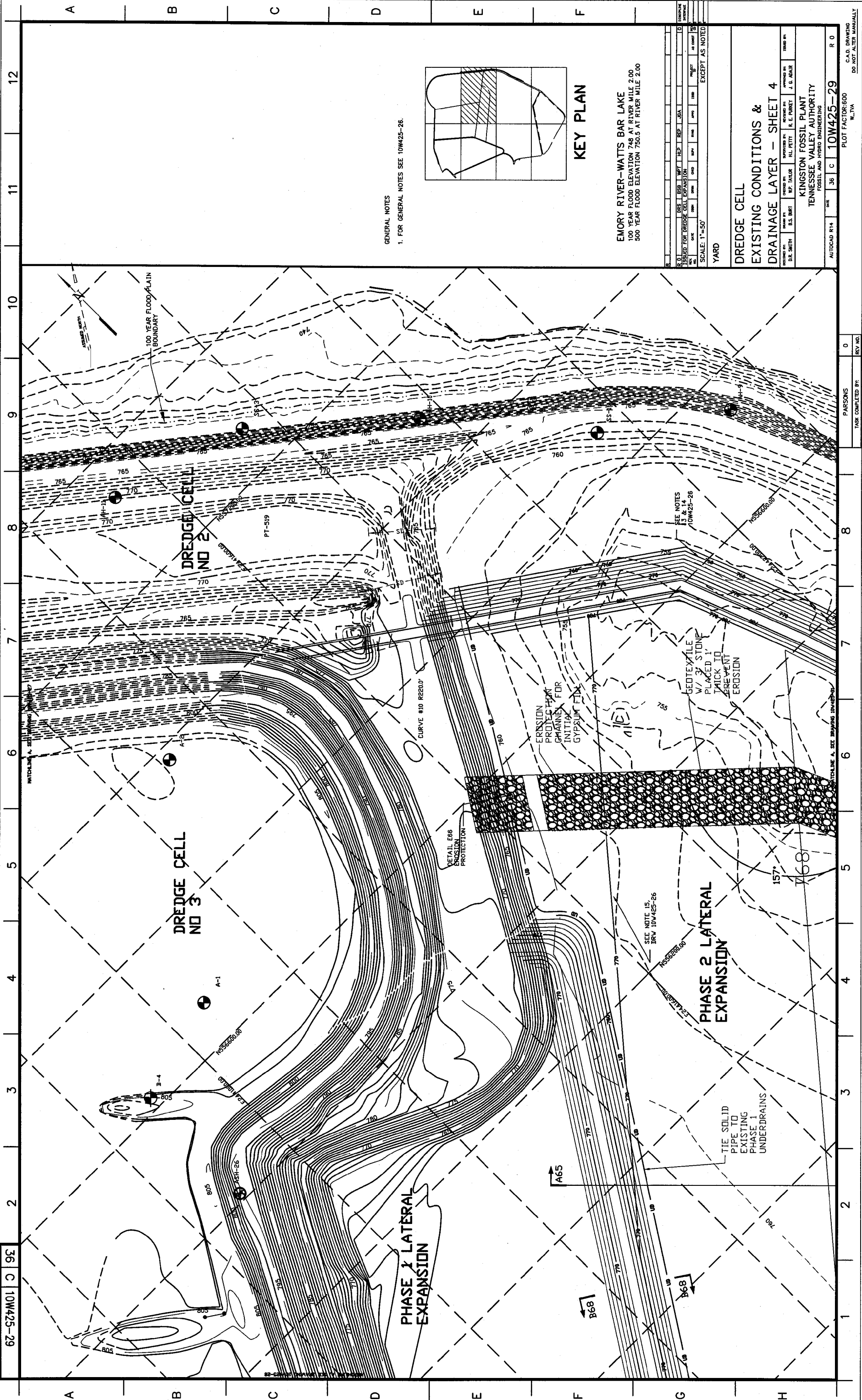
SCALE: 1"=50'

DREDGE CELL EXISTING CONDITIONS & DRAINAGE LAYER - SHEET 3

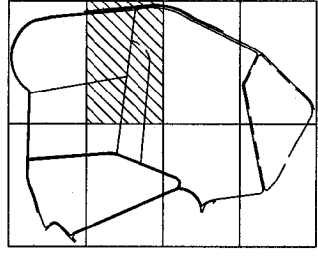
DESIGNED BY: D.L. SMITH
 CHECKED BY: H.L. PETTY
 SUPERVISOR: J.E. PURDY
 KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

PROJECT NO: 10W425-28
 SHEET NO: 36 C
 PLOT FACTOR: 500
 W.T.V.A.
 R.O. DO NOT ALTER MANUALLY

PARSONS
 TASK COMPLETED BY: 0
 REV. NO.



GENERAL NOTES
1. FOR GENERAL NOTES SEE 10W425-26.



EMORY RIVER-WATTS BAR LAKE
100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

NO.	DATE	BY	CHKD	APPD	PROJECT	SCALE
1	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
2	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
3	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
4	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
5	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
6	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
7	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
8	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
9	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
10	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
11	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'
12	08/11/03	W.P. TAYLOR	J.E. PARSONS	J.G. ADAIR	EMORY RIVER-WATTS BAR LAKE	1"=50'

SCALE: 1"=50'
YARD

**DREDGE CELL
EXISTING CONDITIONS &
DRAINAGE LAYER - SHEET 4**

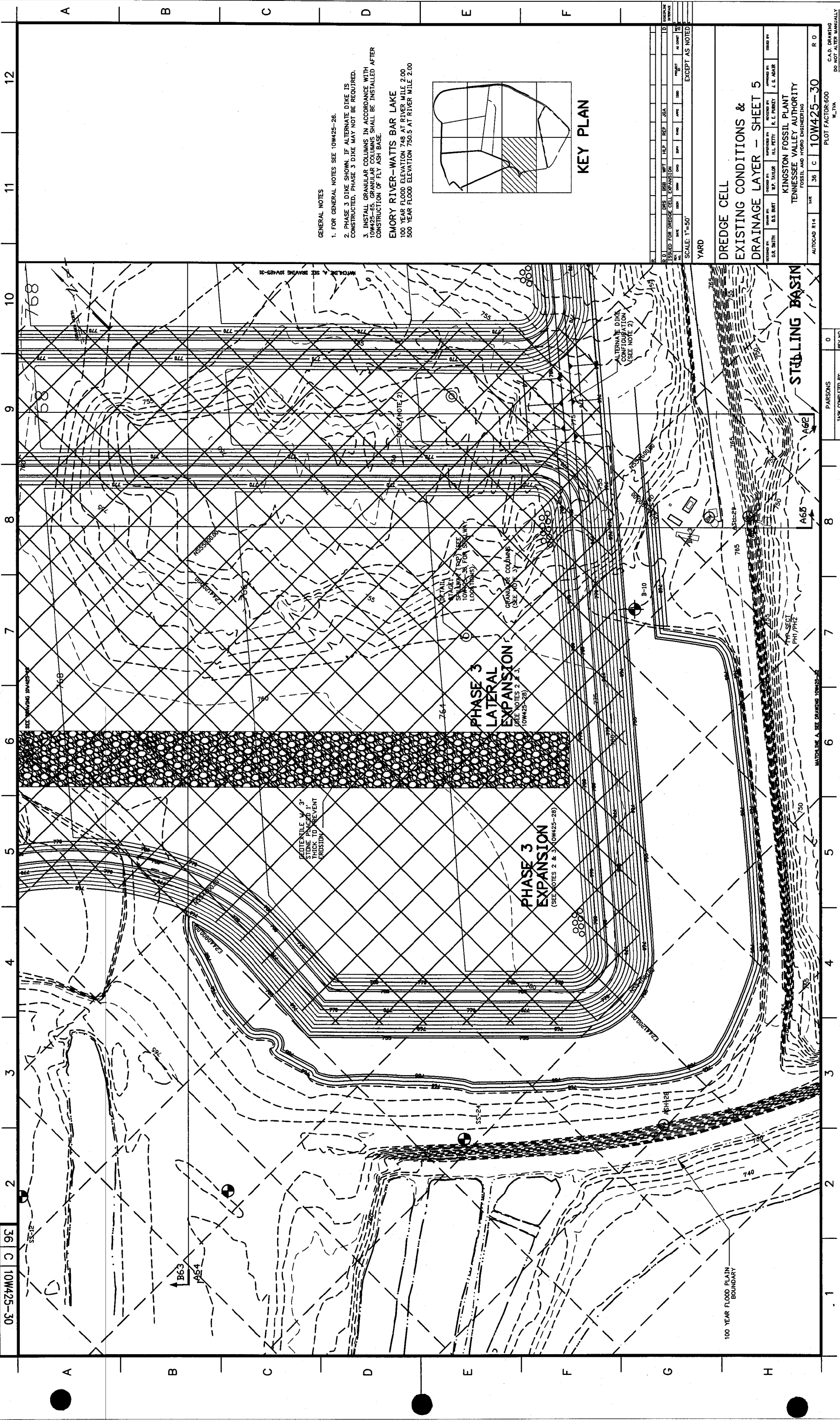
DESIGNED BY: W.P. TAYLOR
CHECKED BY: J.E. PARSONS
APPROVED BY: J.G. ADAIR

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

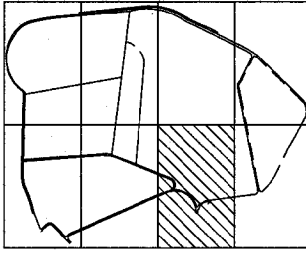
AUTOCAD R14
DATE: 08/11/03
SHEET: 36
PROJECT: C 10W425-29
PLOT FACTOR: 600
W.L.TVA
R.O.
C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY:	PARSONS	REV. NO.
	0	

67-SZM01 C 9C



- GENERAL NOTES
- FOR GENERAL NOTES SEE 10W425-26.
 - PHASE 3 DIKE SHOWN, IF ALTERNATE DIKE IS CONSTRUCTED, PHASE 3 DIKE MAY NOT BE REQUIRED.
 - INSTALL GRANULAR COLUMNS IN ACCORDANCE WITH 10W425-85. GRANULAR COLUMNS SHALL BE INSTALLED AFTER CONSTRUCTION OF FLY ASH BASE.
- EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



NO.	DATE	BY	CHKD	APPD	PROJECT	AT CONCT

SCALE: 1"=50'

YARD

DREDGE CELL
 EXISTING CONDITIONS &
 DRAINAGE LAYER - SHEET 5

DESIGNED BY: B.E. SMITH
 CHECKED BY: W.P. TAYLOR
 SUPERVISOR: H.L. PETTY
 APPROVED BY: R.E. PARKER, J.E. ADAIR

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

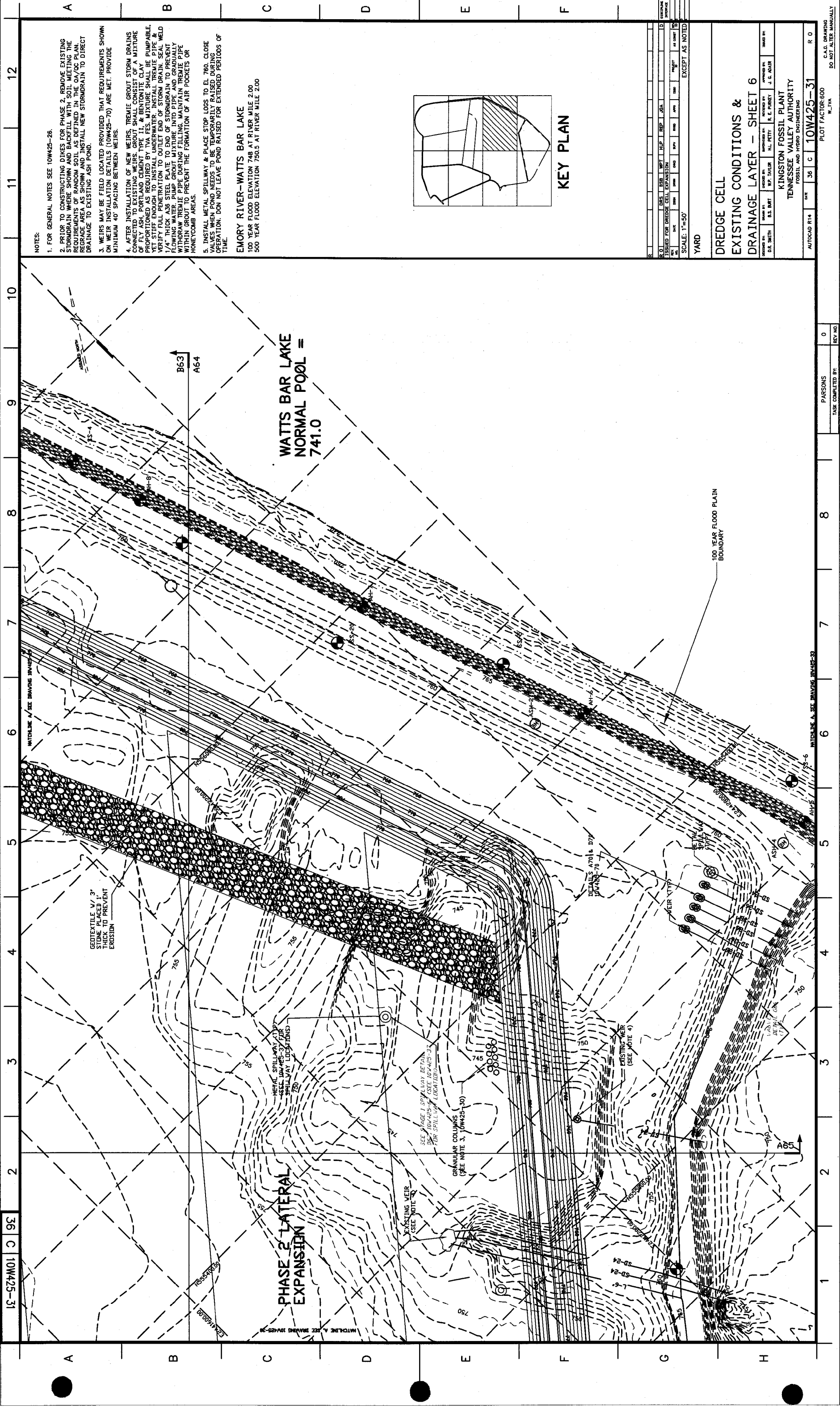
AUTOCAD R14
 DATE: 3/86
 SHEET: C 10W425-30
 R.O.

PLOT FACTOR: 600
 W_LIWA
 C.A.D. DRAWING
 DO NOT ALTER MANUALLY

TASK COMPLETED BY:	REV. NO.
	0

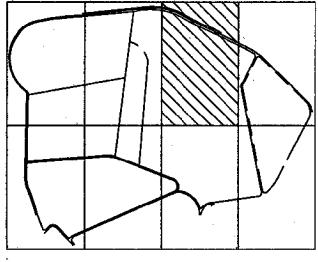
03-C74M01 C 36

100 YEAR FLOOD PLAIN BOUNDARY



- NOTES:
- FOR GENERAL NOTES SEE 10W425-26.
 - PRIOR TO CONSTRUCTING DIKES FOR PHASE 2, REMOVE EXISTING STORMDRAIN WHERE SHOWN AND BACKFILL WITH SOIL MEETING THE REQUIREMENTS OF RANDOM SOIL AS DEFINED IN THE 0A/0C PLAN. REGRADE AREA AS SHOWN AND INSTALL NEW STORMDRAIN TO DIRECT DRAINAGE TO EXISTING ASH POND.
 - WEIRS MAY BE FIELD LOCATED PROVIDED THAT REQUIREMENTS SHOWN ON WEIR INSTALLATION DETAILS (10W425-70) ARE MET. PROVIDE MINIMUM 40' SPACING BETWEEN WEIRS.
 - AFTER INSTALLATION OF NEW WEIRS, TREMIE GROUT STORM DRAINS CONNECTED TO EXISTING WEIRS. GROUT SHALL CONSIST OF A MIXTURE OF FLY ASH, PORTLAND CEMENT TYPE II, & BENTONITE CLAY PROPORTIONED AS REQUIRED BY TVA FES. MIXTURE SHALL BE PUMPABLE, YET STIFF ENOUGH TO INSTALL UNDERWATER. INSTALL TREMIE PIPE & FILL WITH STEEL PLATE TO END OF STORMDRAIN. SEAL WEIR WITH 1/2" THICK 1/8" STEEL PLATE TO END OF STORMDRAIN. PREPARE FLOWING WATER PUMP GROUT MIXTURE INTO PIPE AND GRADUALLY WITHDRAW TREMIE PIPE DURING FILLING. MAINTAIN TREMIE PIPE WITHIN GROUT TO PREVENT THE FORMATION OF AIR POCKETS OR HONEYCOMB AREAS.
 - INSTALL METAL SPILLWAY & RAISE STOP LOGS TO EL 760. CLOSE VALVES WHEN POND NEEDS TO BE TEMPORARILY RAISED DURING OPERATION. DO NOT LEAVE POND RAISED FOR EXTENDED PERIODS OF TIME.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



KEY PLAN

NO.	DATE	BY	CHKD	APPD	SCALE	AS NOTED
1					1"=50'	EXCEPT AS NOTED

**DREDGE CELL
 EXISTING CONDITIONS &
 DRAINAGE LAYER - SHEET 6**

DESIGNED BY: D.R. SMITH
 CHECKED BY: W.P. TAYLOR
 APPROVED BY: R.E. PIRREY
 DRAWN BY: J.G. ADAMS

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE: 03/35/01 C 10W425-31 R 0

PLOT FACTOR: 600
 W.TVA
 C.A.D. DRAWING
 DO NOT ALTER MANUALLY

10W425-31 C 36

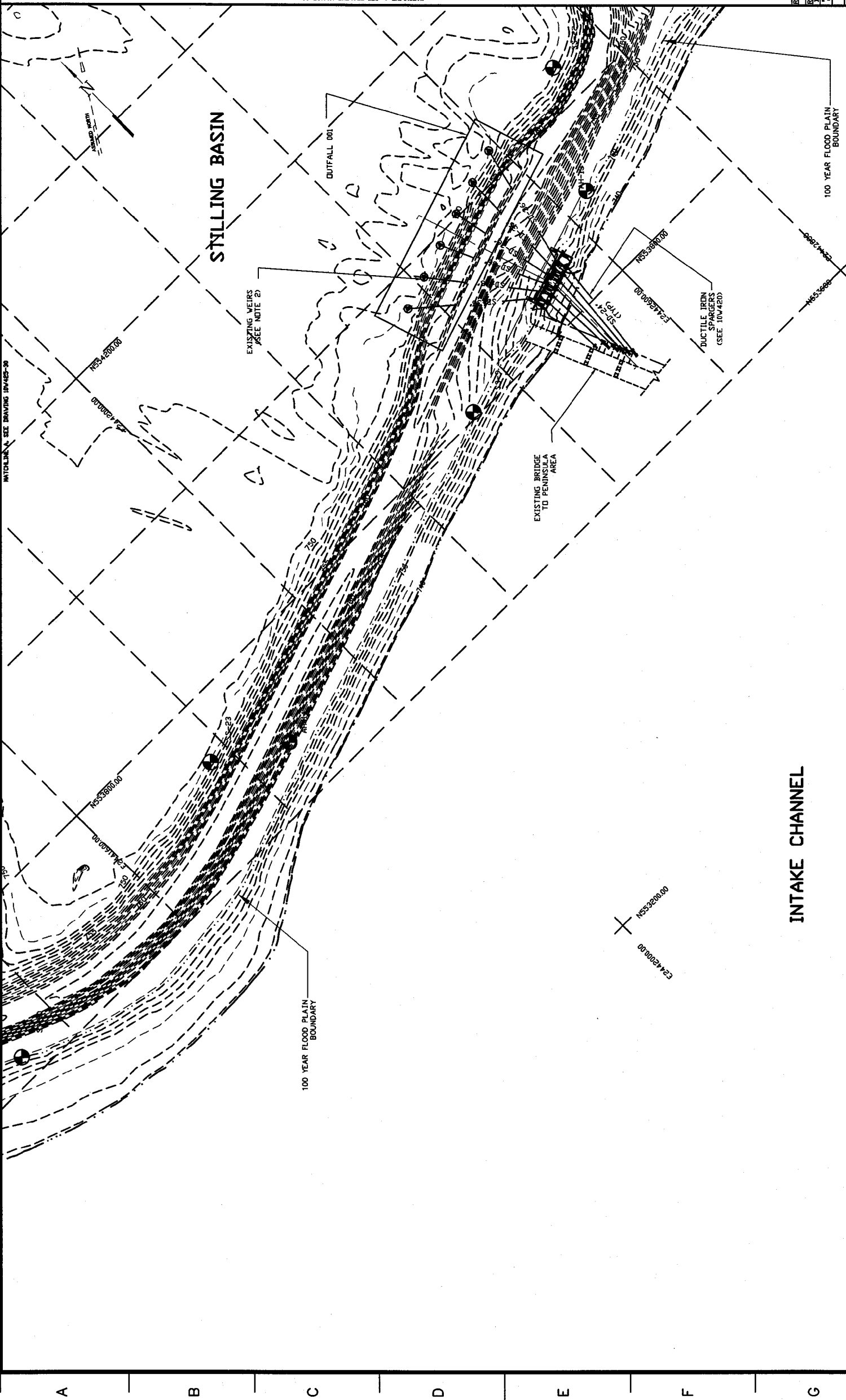
PARSONS
 DATE COMPLETED BY: 0
 REV NO:

WATTS BAR LAKE SEE DRAWING 10W425-26

WATTS BAR LAKE SEE DRAWING 10W425-26

36 C 10W425-32

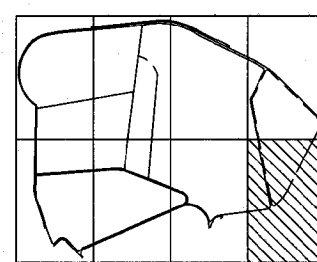
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NOTES:
 1. FOR GENERAL NOTES SEE 10W425-26.
 2. PRIOR TO CONSTRUCTING DIKES FOR PHASE 2, RAISE EXISTING WEIRS TO ELEVATION 757.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

MATCHLINE A, SEE DRAWING 10W425-33



KEY PLAN

INTAKE CHANNEL

**DREDGE CELL
 EXISTING CONDITIONS &
 DRAINAGE LAYER - SHEET 7**

DESIGNED BY: D.E. SMITH
 CHECKED BY: W.P. TAYLOR
 SUPERVISED BY: H.L. PETTY
 APPROVED BY: R.E. PARREY
 DRAWN BY: J.G. ADLER

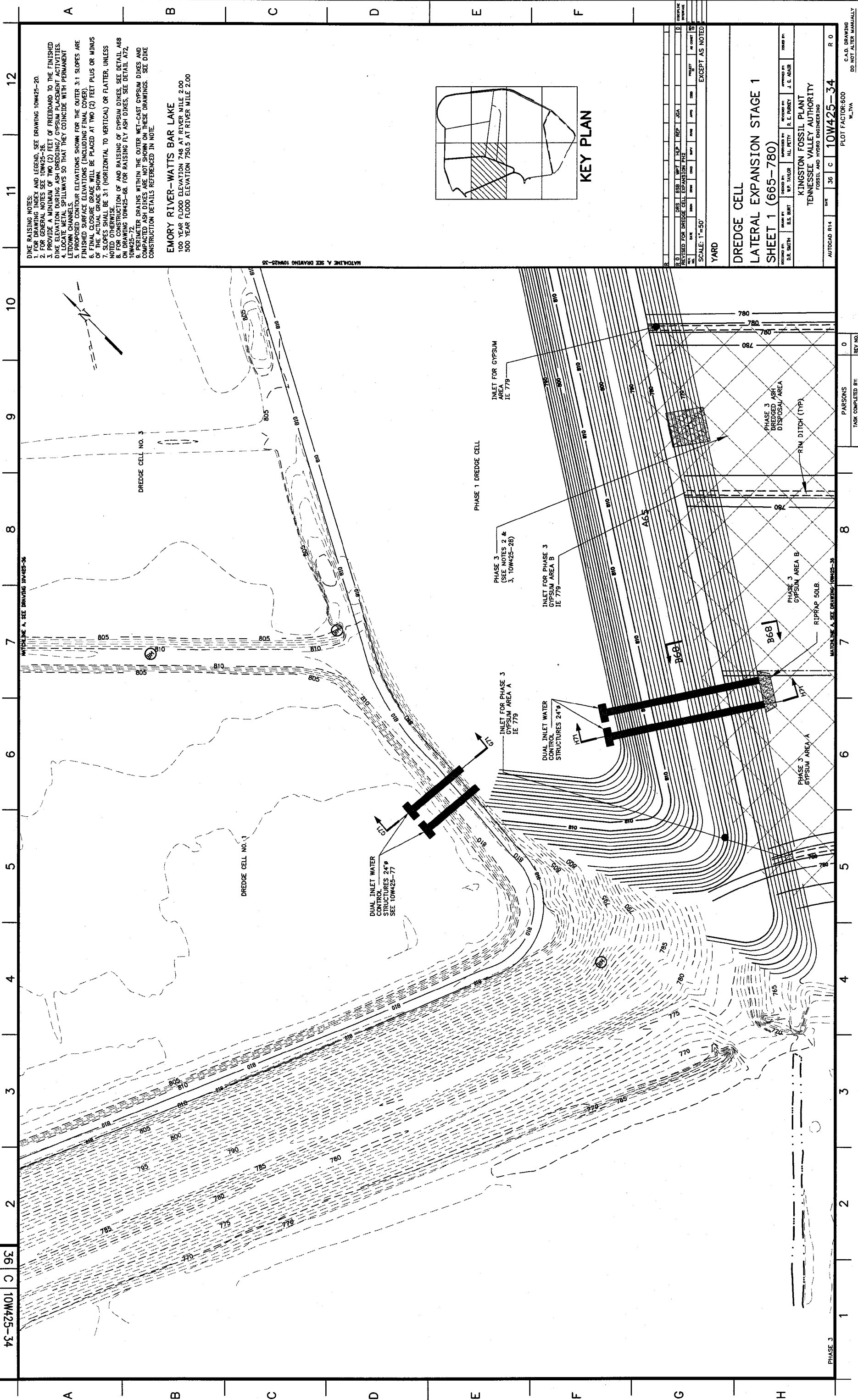
KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE: 3/6/80 PLOT FACTOR: 800
 10W425-32 R 0

PARSONS
 TASK COMPLETED BY: 0
 REV. NO.

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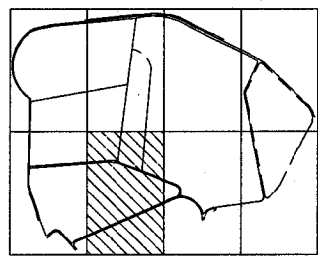
A B C D E F G H



36 C 10W425-34

DIKE RAISING NOTES:
 1. FOR DRAWING INDEX AND LEGEND, SEE DRAWING 10W425-20.
 2. FOR GENERAL NOTES SEE 10W425-26.
 3. PROVIDE A MINIMUM OF TWO (2) FEET OF FREEBOARD TO THE FINISHED DIKE TOP SURFACE.
 4. LOCATE METAL SPILLWAYS SO THAT THEY COINCIDE WITH PERMANENT LETDOWN CHANNELS.
 5. PROPOSED CONTOUR ELEVATIONS SHOWN FOR THE OUTER 3:1 SLOPES ARE FINISHED SURFACE ELEVATIONS (INCLUDING FINAL COVER).
 6. FINAL CLOSURE GRADE WILL BE PLACED AT TWO (2) FEET PLUS OR MINUS OF THE ACTUAL GRADE SHOWN.
 7. SLOPES SHALL BE 3:1 (HORIZONTAL TO VERTICAL) OR FLATTER, UNLESS NOTED OTHERWISE.
 8. FOR RAISING OF AND RAISING OF GYPSUM DIKES, SEE DETAIL A68 ON DRAWING 10W425-68. FOR RAISING FLY ASH DIKES, SEE DETAIL A72, 10W425-72.
 9. PERIMETER DRAINS WITHIN THE OUTER MET-CAST GYPSUM DIKES AND COMPACTED ASH DIKES ARE NOT SHOWN ON THESE DRAWINGS. SEE DIKE CONSTRUCTION DETAILS REFERENCED IN NOTE.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 746 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



KEY PLAN

DESIGNED BY	DATE	SCALE	PROJECT	NO.
REVISED FOR DREDGE CELL EXPANSION PHASE 3	10/11/00	1"=50'	EMORY RIVER WATTS BAR LAKE	36
BY	CHKD	APP'D	DRWN	DATE
J.E. SMITH	J.E. SMITH	J.E. SMITH	J.E. SMITH	10/11/00

DREDGE CELL LATERAL EXPANSION STAGE 1 SHEET 1 (665-780)

YARD

SCALE: 1"=50'

EXCEPT AS NOTED

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

APPROVED BY: J. E. SMITH
 CHECKED BY: J. E. SMITH
 DESIGNED BY: J. E. SMITH
 DRAWN BY: J. E. SMITH

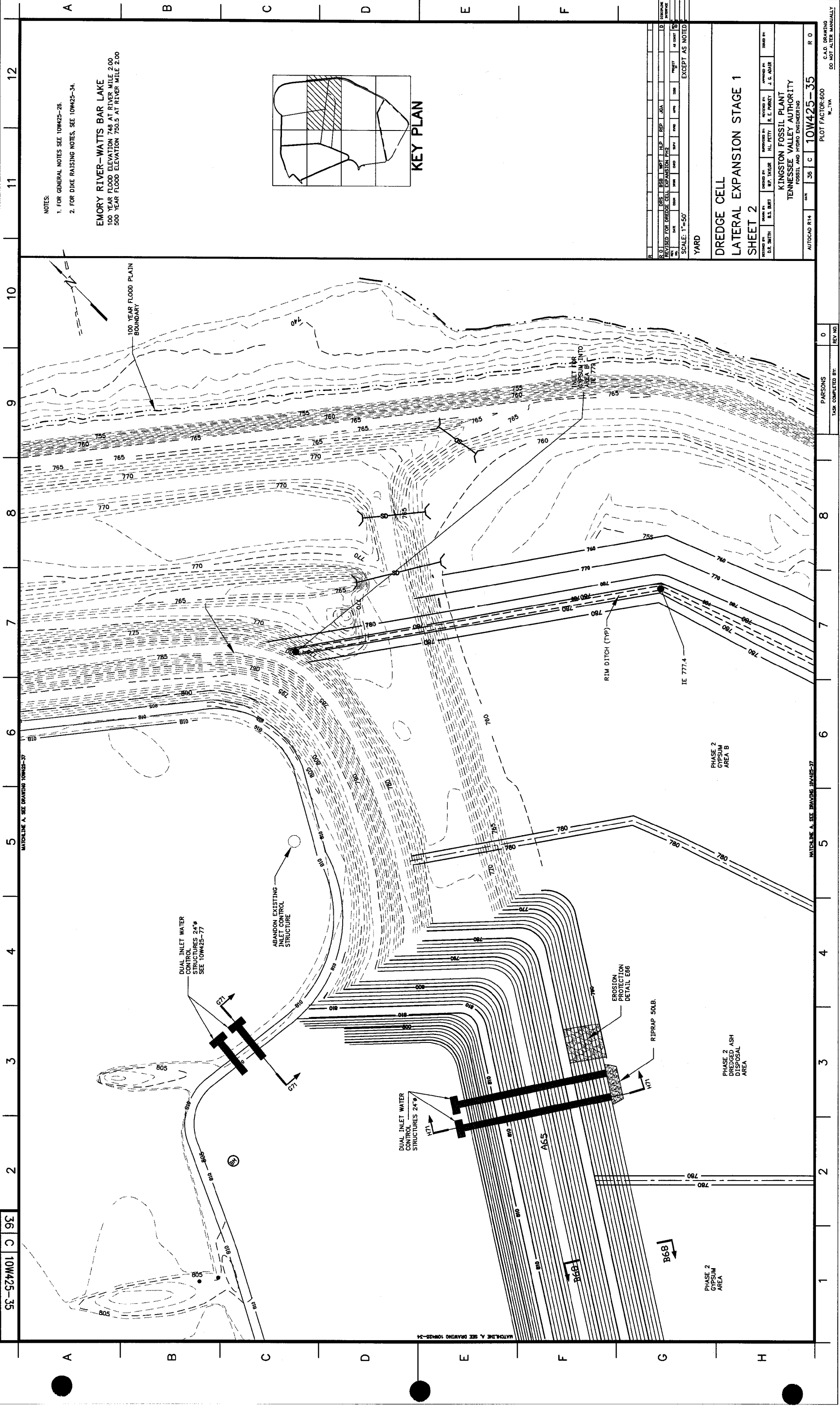
AUTOCAD R14

PLOT FACTOR: 600

W_TVA

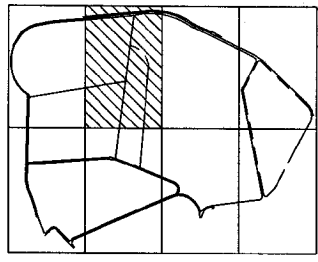
CAD DRAWING
 DO NOT ALTER MANUALLY

REV NO.	0
TASK COMPLETED BY:	PARSONS
DATE	10/11/00



NOTES:
 1. FOR GENERAL NOTES SEE 10W425-26.
 2. FOR DIKE RAISING NOTES, SEE 10W425-34.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



KEY PLAN

REVISED FOR DREDGE CELL EXPANSION PHASE 2	DATE	BY	CHKD	APPD	PROJECT	AS CONTD
1	08/11/00	W.P. TAYLOR	H.L. PETTY	R.E. PARSONS	J.C. ADAMS	
SCALE: 1"=50'						
YARD						
EXCEPT AS NOTED						

DREDGE CELL
 LATERAL EXPANSION STAGE 1
 SHEET 2

DESIGNED BY: D.R. SMITH
 CHECKED BY: W.P. TAYLOR
 APPROVED BY: H.L. PETTY
 KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14
 DATE: 08/11/00
 SHEET: 36 C
 PROJECT: 10W425-35
 R.O.

PARSONS
 TASK COMPLETED BY: 0
 REV NO:

PLOT FACTOR: 600
 W_TVA
 DO NOT ALTER MANUALLY

MATCHLINE A SEE DRAWING 10W425-37

MATCHLINE A SEE DRAWING 10W425-37

36 C 10W425-35

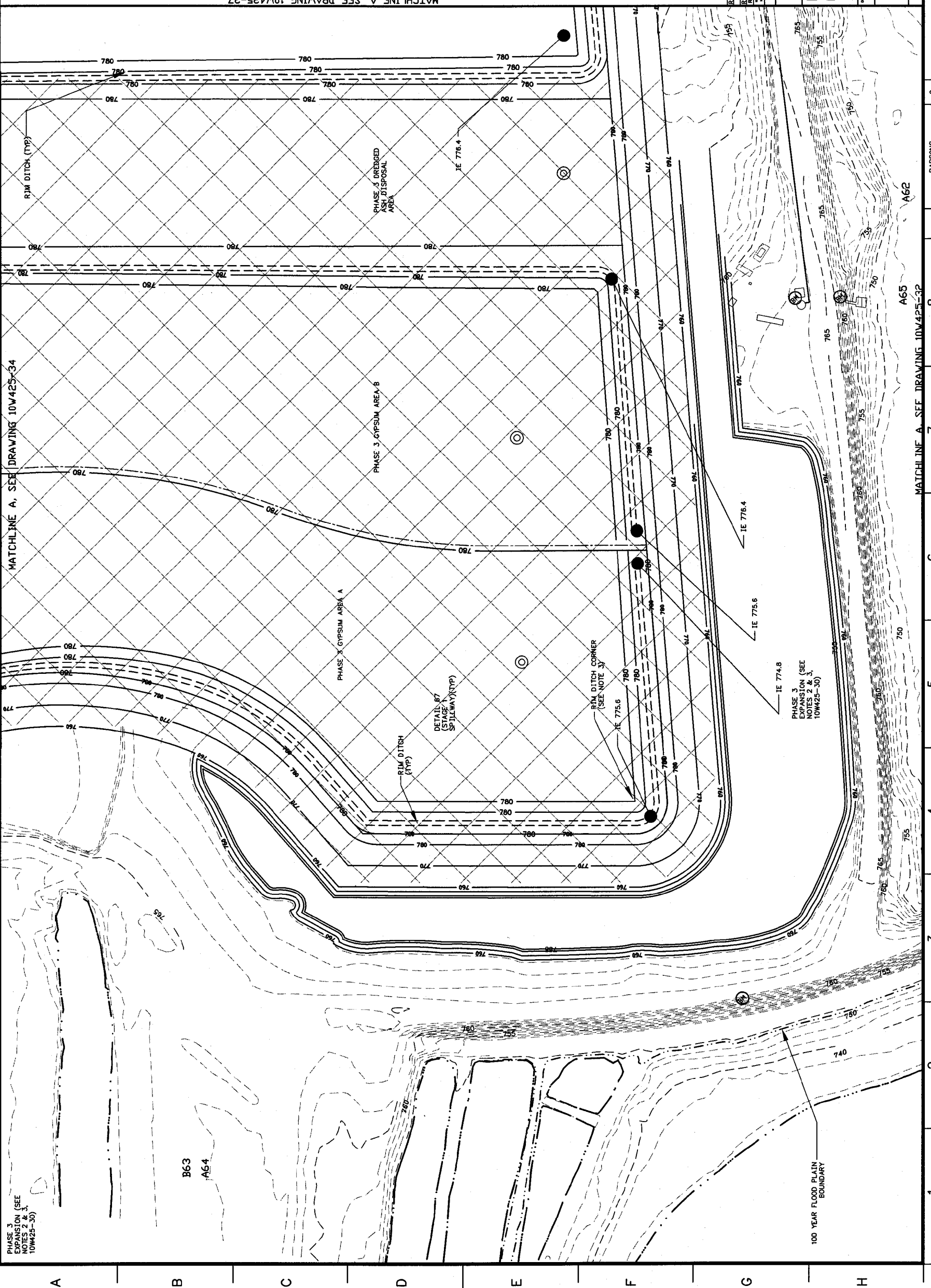
9C-SZM01 C 9C

PHASE 3 EXPANSION (SEE 10W425-30)

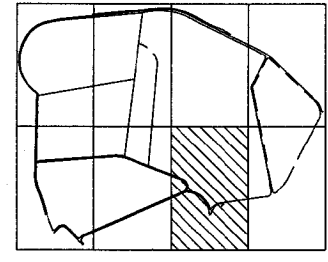
B63 A64

12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H



- NOTES:
1. FOR GENERAL NOTES SEE 10W425-26.
 2. FOR DIKE RAISING NOTES, SEE 10W425-34.
 3. WHERE RIM DITCHES HAVE SHARP TURNS, WIDEN DITCH IN THE TURN TO 10 FT.



KEY PLAN

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

DATE	BY	CHKD	APP'D	REVISION
10/11/01	J.E. SMITH	J.E. SMITH	J.E. SMITH	1. INITIAL DESIGN
10/11/01	J.E. SMITH	J.E. SMITH	J.E. SMITH	2. REVISED FOR DREDGE CELL EXPANSION PHASE
10/11/01	J.E. SMITH	J.E. SMITH	J.E. SMITH	3. REVISED FOR DREDGE CELL EXPANSION PHASE
10/11/01	J.E. SMITH	J.E. SMITH	J.E. SMITH	4. REVISED FOR DREDGE CELL EXPANSION PHASE
10/11/01	J.E. SMITH	J.E. SMITH	J.E. SMITH	5. REVISED FOR DREDGE CELL EXPANSION PHASE
10/11/01	J.E. SMITH	J.E. SMITH	J.E. SMITH	6. REVISED FOR DREDGE CELL EXPANSION PHASE
10/11/01	J.E. SMITH	J.E. SMITH	J.E. SMITH	7. REVISED FOR DREDGE CELL EXPANSION PHASE
10/11/01	J.E. SMITH	J.E. SMITH	J.E. SMITH	8. REVISED FOR DREDGE CELL EXPANSION PHASE
10/11/01	J.E. SMITH	J.E. SMITH	J.E. SMITH	9. REVISED FOR DREDGE CELL EXPANSION PHASE
10/11/01	J.E. SMITH	J.E. SMITH	J.E. SMITH	10. REVISED FOR DREDGE CELL EXPANSION PHASE

SCALE: 1"=50'
 YARD

DREDGE CELL
 LATERAL EXPANSION STAGE 1
 SHEET 3

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSEL AND HYDRO ENGINEERING

AUTOCAD R14 DATE 36 C 10W425-36 R 0
 PLOT FACTOR: 600 W, NVA

PARSONS
 TASK COMPLETED BY: 0 REV NO.

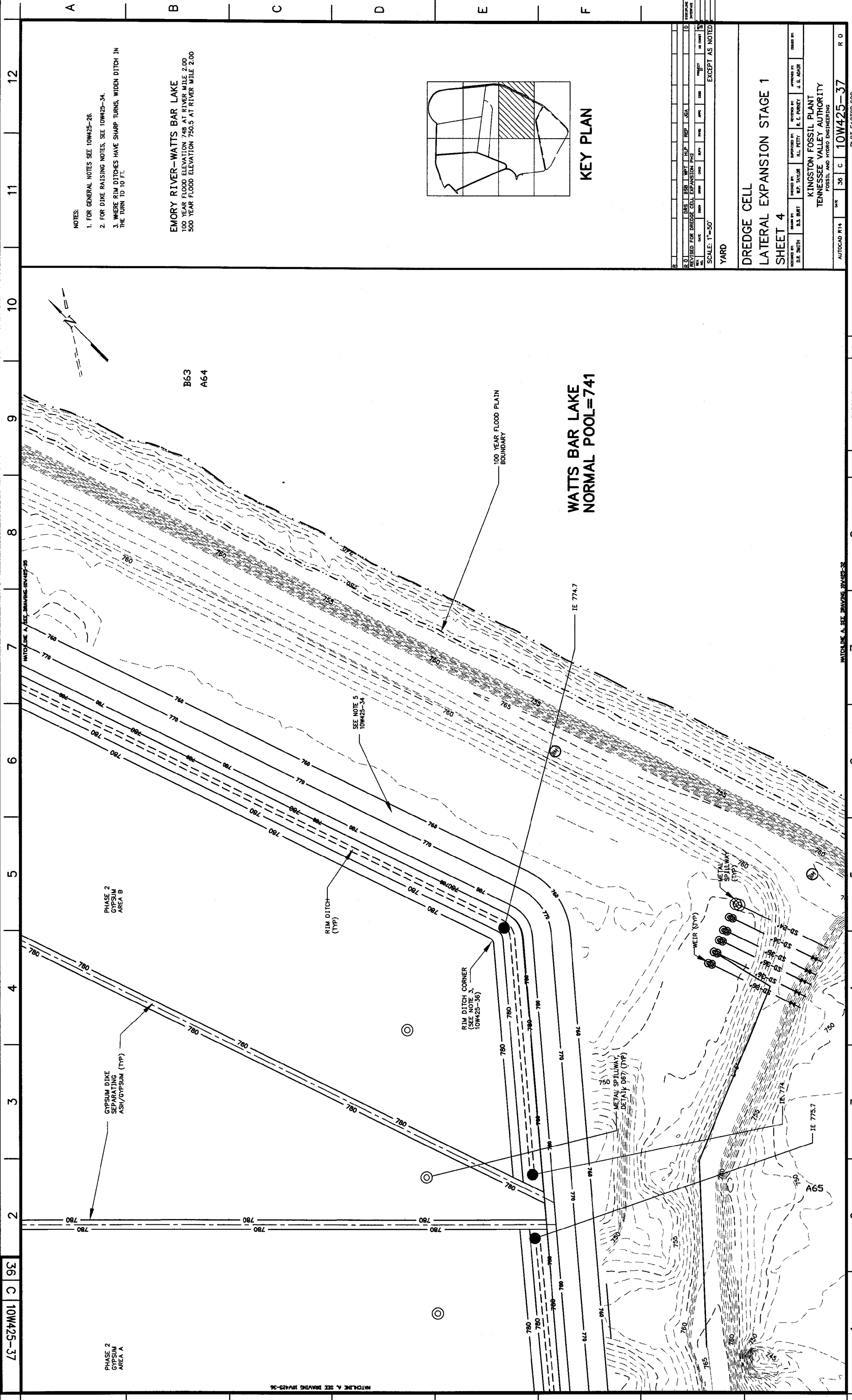
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MATCHLINE A. SEE DRAWING 10W425-32

MATCHLINE A. SEE DRAWING 10W425-32

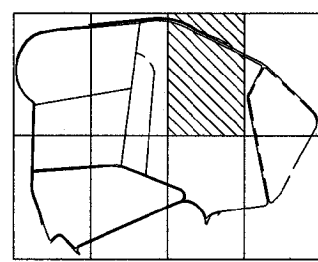
MATCHLINE A. SEE DRAWING 10W425-32

C.A.D. DRAWING
 DO NOT ALTER MANUALLY



NOTES:
 1. FOR GENERAL NOTES SEE 10W425-26.
 2. FOR DIKE RAISING NOTES, SEE 10W425-34.
 3. WHERE RIM DITCHES HAVE SHARP TURNS, WIDEN DITCH IN THE TURN TO 10 FT.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



KEY PLAN

REVISED FOR DREDGE CELL EXPANSION PHASE 2	DATE	BY	CHKD	APP'D	PROJECT	AS SHOWN
SCALE: 1"=50'						

YARD

DREDGE CELL LATERAL EXPANSION STAGE 1 SHEET 4

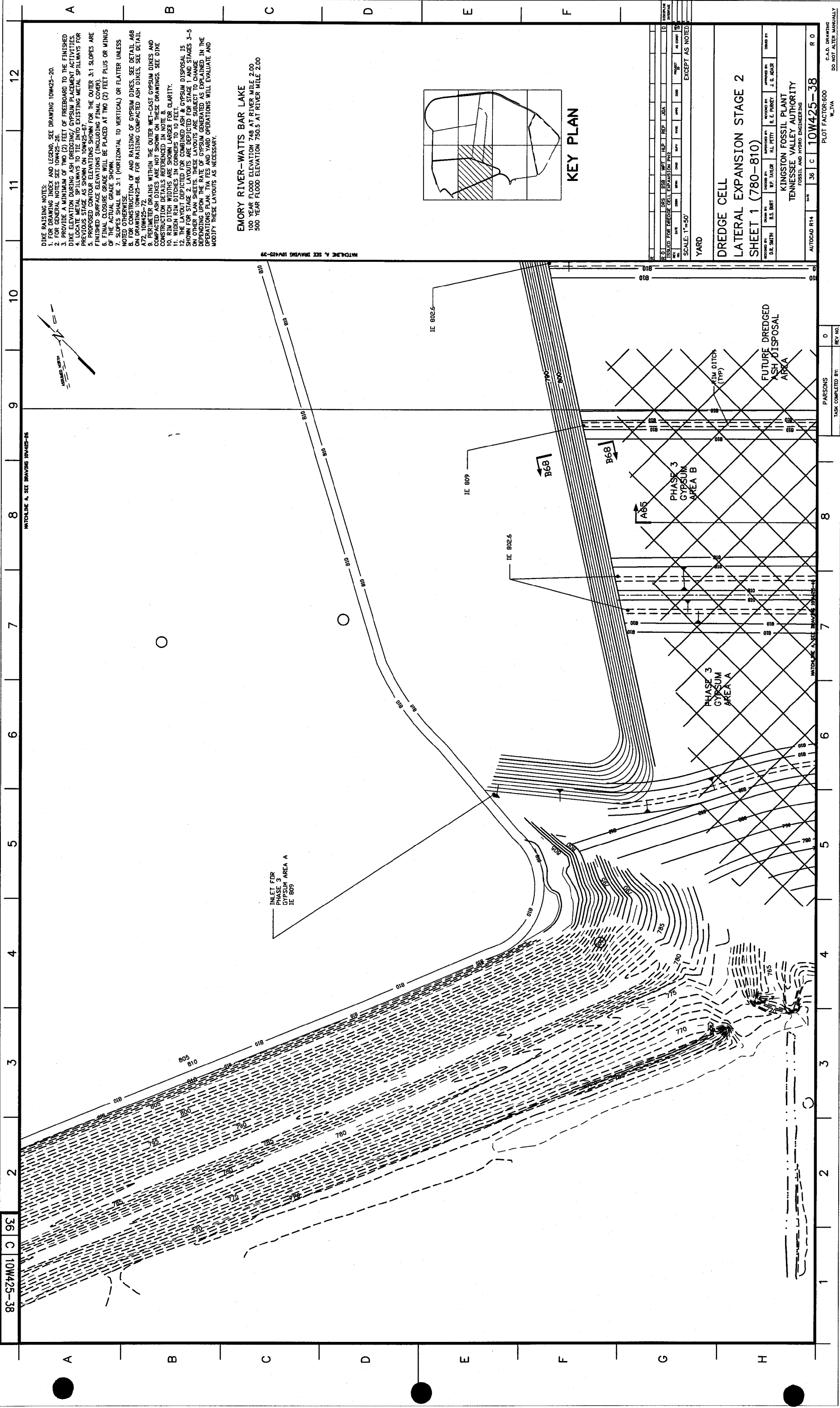
DESIGNED BY: D.R. SMITH
 CHECKED BY: W.P. TAYLOR
 SUPERVISOR: H.L. PETTY
 REVIEWED BY: R.E. PURNEY
 APPROVED BY: J.G. ADAIR

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
 FOSSIL AND PIERCE ENGINEERING

AUTOCAD R14 DATE: 06/30/00 SHEET: C 10W425-37 R.O.

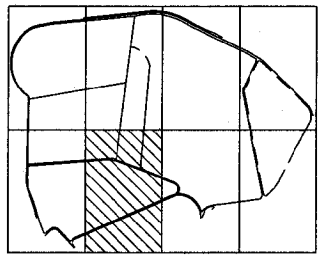
PARSONS	0
TASK COMPLETED BY:	REV NO.
DATE	REV NO.

36 C 10W425-37



- DIKE RAISING NOTES:**
1. FOR DRAWING INDEX AND LEGEND, SEE DRAWING 10W425-20.
 2. FOR GENERAL NOTES SEE 10W425-26.
 3. PROVIDE A MINIMUM OF TWO (2) FEET OF FREEBOARD TO THE FINISHED DIKE ELEVATION DURING ASH DREDGING/ GYPSUM PLACEMENT ACTIVITIES.
 4. THE FINISHED DIKE ELEVATION SHALL BE THE SAME AS THE FINISHED ELEVATION OF THE EXISTING METAL SPILLWAYS FOR PREVIOUS STAGE AS SHOWN ON 10W425-27.
 5. PROPOSED CONTOUR ELEVATIONS SHOWN FOR THE OUTER 3:1 SLOPES ARE FINISHED SURFACE ELEVATIONS (INCLUDING FINAL COVER).
 6. FINAL CLOSURE GRADE WILL BE PLACED AT TWO (2) FEET PLUS OR MINUS OF THE ACTUAL GRADE SHOWN.
 7. SLOPES SHALL BE 3:1 (HORIZONTAL TO VERTICAL) OR FLATTER UNLESS NOTED OTHERWISE.
 8. FOR CONSTRUCTION OF AND RAISING OF GYPSUM DIKES, SEE DETAIL A68 ON DRAWING 10W425-26. FOR RAISING COMPACTED ASH DIKES, SEE DETAIL A72, 10W425-27.
 9. PERIMETER DRAINS WITHIN THE OUTER WET-CAST GYPSUM DIKES AND COMPACTED ASH DIKES ARE NOT SHOWN ON THESE DRAWINGS. SEE DIKE CONSTRUCTION DETAILS REFERENCED IN NOTE 8.
 10. RIM DITCH WIDTHS ARE SHOWN LARGER FOR CLARITY.
 11. THE LAYOUT DEPICTED FOR COMBINED GYPSUM DISPOSAL IS SHOWN FOR STAGE 2. LAYOUTS ARE DEPICTED FOR STAGE 1 AND STAGES 3-5 ON OTHER PLAN SHEETS. THESE LAYOUTS ARE SUBJECT TO CHANGE DEPENDING UPON THE RATE OF GYPSUM GENERATED AS EXPLAINED IN THE OPERATIONS PLAN. TMA FES AND YARD OPERATIONS WILL EVALUATE AND MODIFY THESE LAYOUTS AS NECESSARY.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



KEY PLAN

DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE
ISSUED FOR DREDGING	10/15/01	ISSUED FOR DREDGING	10/15/01	ISSUED FOR DREDGING	10/15/01	ISSUED FOR DREDGING	10/15/01	ISSUED FOR DREDGING	10/15/01	ISSUED FOR DREDGING	10/15/01	ISSUED FOR DREDGING	10/15/01	ISSUED FOR DREDGING	10/15/01
SCALE: 1"=50'															
YARD															
EXCEPT AS NOTED															
DREDGE CELL															
LATERAL EXPANSION STAGE 2															
SHEET 1 (780-810)															
DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE	DESIGNED BY	DATE
D.E. SMITH	10/15/01	R.P. TAYLOR	10/15/01	R.E. PERRY	10/15/01	J.G. ADAIR	10/15/01								
KINGSTON FOSSIL PLANT															
TENNESSEE VALLEY AUTHORITY															
FOSSIL AND HYDRO ENGINEERING															
AUTOCAD R14	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
	10/15/01														
PLOT FACTOR: 600															
W.TVA															
10W425-38															
R O															
DO NOT ALTER MANUALLY															

TASK COMPLETED BY	REV. NO.
PARSONS	0

65-527401 C 9C 10W425-39

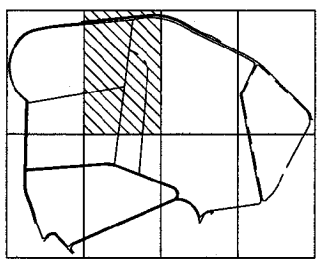
11 12

NOTES:

- 1. FOR GENERAL NOTES SEE 10W425-26.
- 2. FOR DIKE RAISING NOTES, SEE 10W425-38.
- 3. EXISTING DREDGE CELL SHOWN TO ELEVATION 810. TVA MAY RAISE EXISTING DREDGE CELL TO ELEVATION 840 OR HIGHER PRIOR TO DEVELOPING PHASE 2 TO ELEVATION 810.

EMORY RIVER-WATTS BAR LAKE

100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



KEY PLAN

DATE	ISSUED FOR	BY	DATE	ISSUED FOR	BY
01/15/03	ISSUED FOR	W.P. HAYES	01/15/03	ISSUED FOR	W.P. HAYES
01/15/03	ISSUED FOR	W.P. HAYES	01/15/03	ISSUED FOR	W.P. HAYES
01/15/03	ISSUED FOR	W.P. HAYES	01/15/03	ISSUED FOR	W.P. HAYES
01/15/03	ISSUED FOR	W.P. HAYES	01/15/03	ISSUED FOR	W.P. HAYES
01/15/03	ISSUED FOR	W.P. HAYES	01/15/03	ISSUED FOR	W.P. HAYES
01/15/03	ISSUED FOR	W.P. HAYES	01/15/03	ISSUED FOR	W.P. HAYES
01/15/03	ISSUED FOR	W.P. HAYES	01/15/03	ISSUED FOR	W.P. HAYES
01/15/03	ISSUED FOR	W.P. HAYES	01/15/03	ISSUED FOR	W.P. HAYES
01/15/03	ISSUED FOR	W.P. HAYES	01/15/03	ISSUED FOR	W.P. HAYES

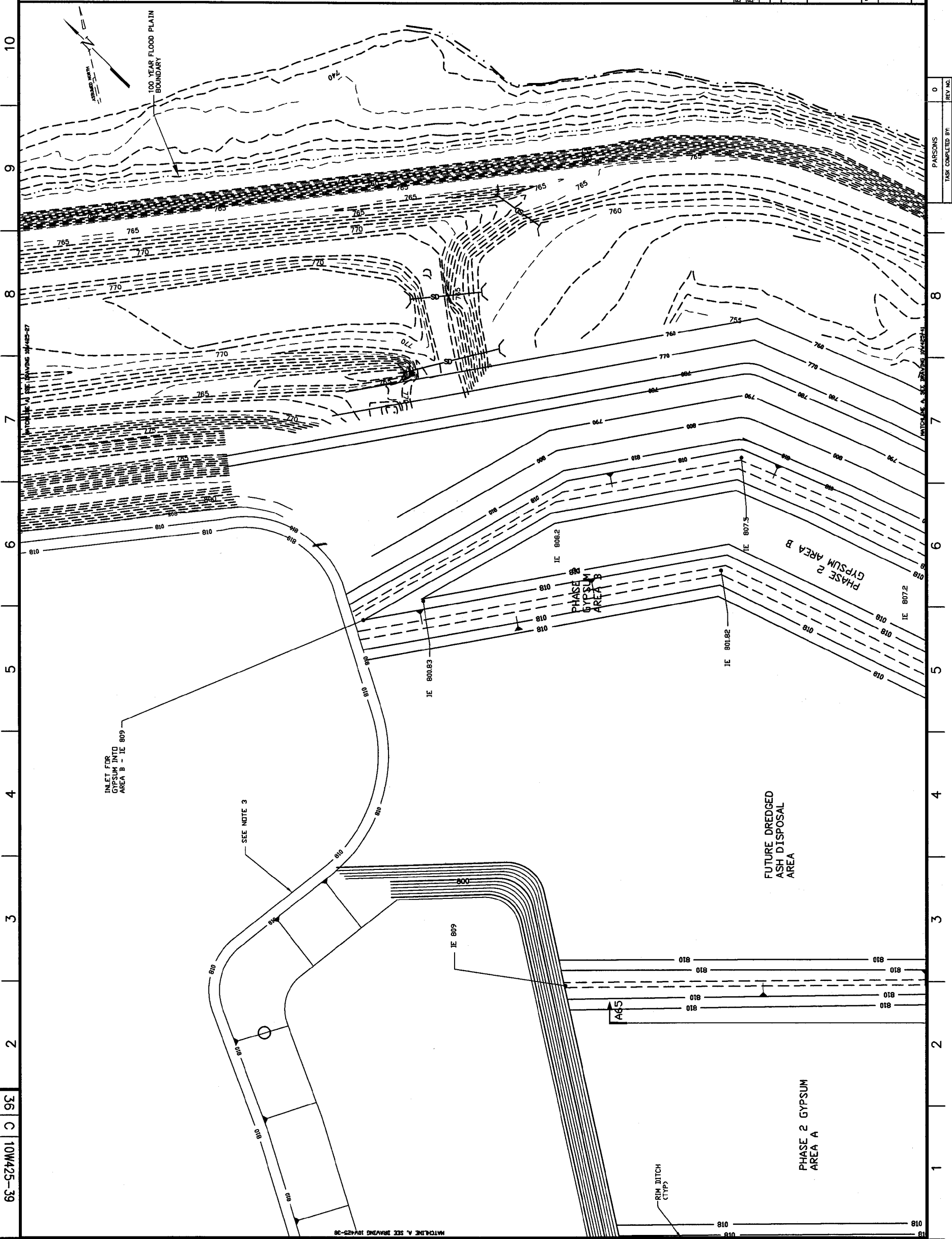
SCALE: 1"=50'
 YARD

DREDGE CELL
 LATERAL EXPANSION STAGE 2
 SHEET 2

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE 36 C 10W425-39 PLOT FACTOR:600 W.TVA

C.A.D. DRAWING DO NOT ALTER MANUALLY



TASK COMPLETED BY: PARSONS

REV. NO. 0

DATE 01/15/03

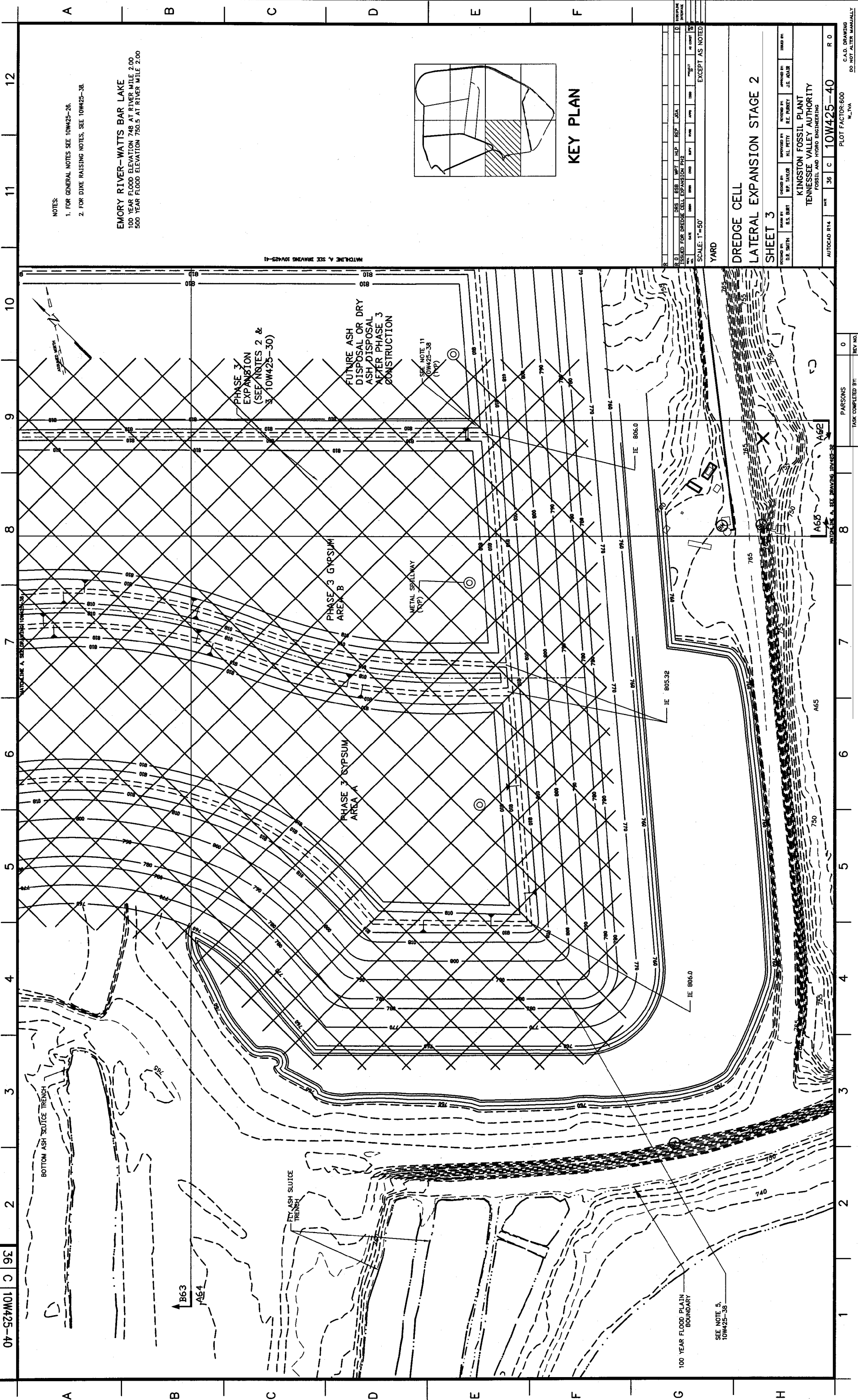
BY W.P. HAYES

DATE 01/15/03

BY W.P. HAYES

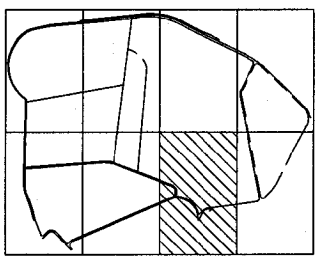
DATE 01/15/03

BY W.P. HAYES



NOTES:
 1. FOR GENERAL NOTES SEE 10W425-26.
 2. FOR DIME RAISING NOTES, SEE 10W425-38.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



DESIGNED BY	DATE	SCALE	BY	DATE	BY	DATE	BY	DATE	BY	DATE
DRS	ESB	WPT	MLP	REP	ASA					
CHECKED FOR DREDGE CELL EXPANSION PH2										
SCALE: 1"=50'										
EXCEPT AS NOTED										

YARD

DREDGE CELL LATERAL EXPANSION STAGE 2 SHEET 3

DESIGNED BY: J.E. SMITH
 CHECKED BY: J.E. SMITH
 APPROVED BY: J.E. SMITH
 APPROVED BY: J.E. SMITH

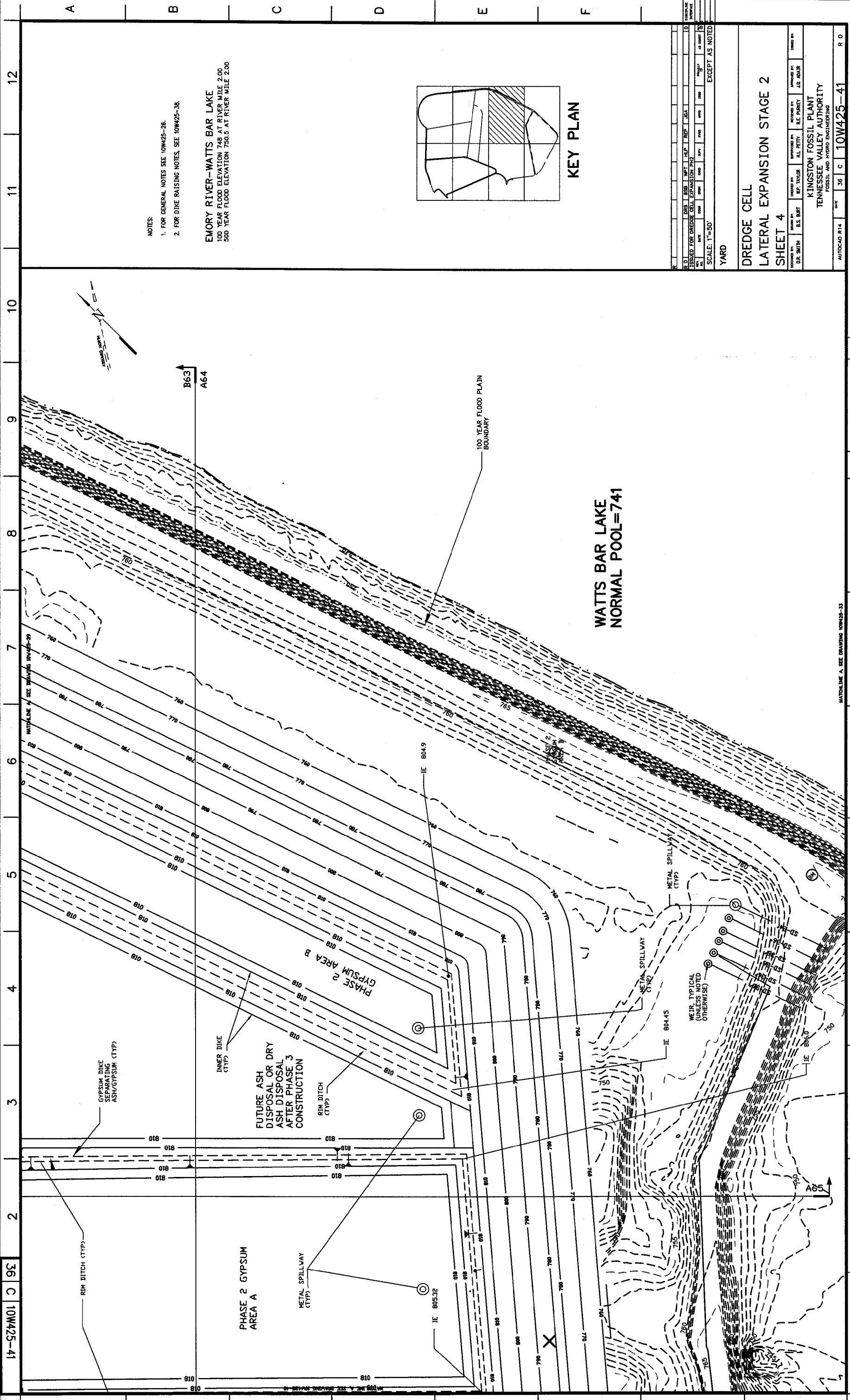
KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE: 36 C 10W425-40 R 0

PLOT FACTOR: 600
 W. IVA
 C.A.D. DRAWING
 DO NOT ALTER MANUALLY

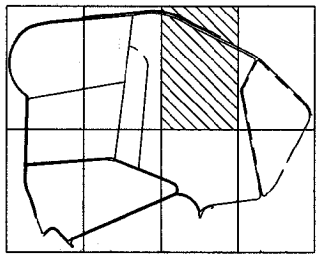
36 C 10W425-40

PARSONS
 TASK COMPLETED BY: 0
 REV NO.



NOTES:
 1. FOR GENERAL NOTES SEE 10W425-26.
 2. FOR DIKE RAISING NOTES, SEE 10W425-38.

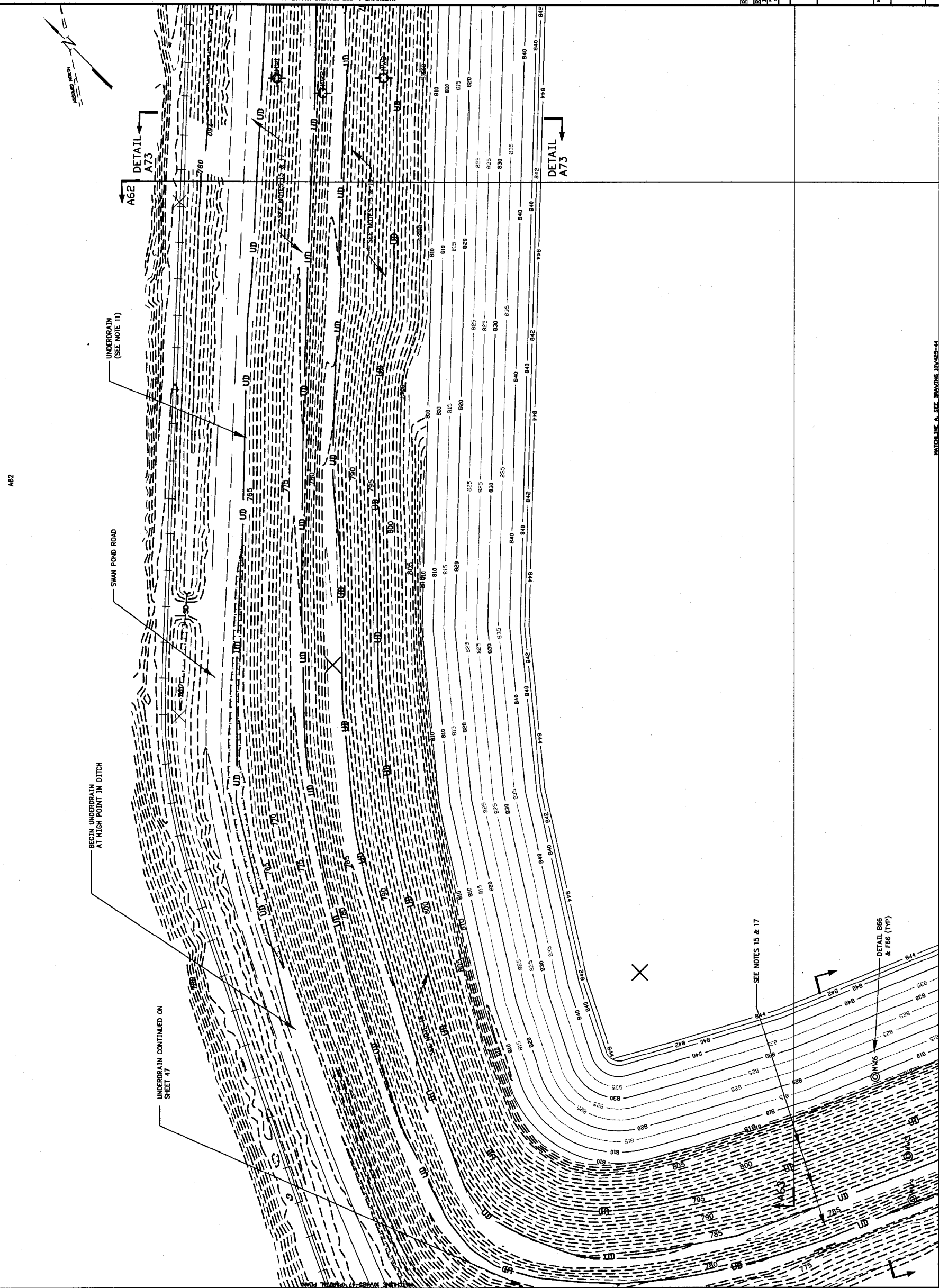
EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



WATTS BAR LAKE NORMAL POOL=741

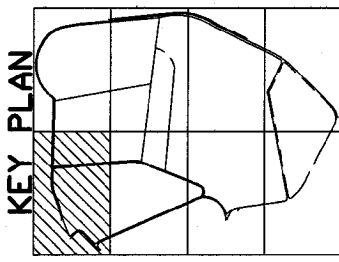
PROJECT NO.		DRAWING NO.		DATE	
10W425-41		36 C		10W425-41	
DESIGNED BY	DATE	CHECKED BY	DATE	ISSUED BY	DATE
D.P. SMITH		A.L. PETTY		J.E. JAMES	
DRAWN BY	DATE	APPROVED BY	DATE	PROJECT NO.	
				10W425-41	
SCALE: 1"=50'					
EXCEPT AS NOTED					
DREDGE CELL LATERAL EXPANSION PHASE 2					
SHEET 4 OF 4					
KINGSTON FOSSIL PLANT					
TENNESSEE VALLEY AUTHORITY					
FOSSIL AND HYDRO ENGINEERING					

MATCHLINE A, SEE DRAWING 10W425-33
 MATCHLINE H, SEE DRAWING 10W425-38
 W.A. PARSONS
 TASK COMPLETED BY: 0
 REV. NO.: 0
 PLOT FACTOR: 800
 W. VA.
 C.A.D. DRAWING
 DO NOT ALTER MANUALLY



- DIKE RAISING NOTES:**
1. FOR DRAWING INDEX AND LEGEND, SEE DRAWING 10W425-20.
 2. FOR GENERAL NOTES SEE 10W425-26.
 3. PROVIDE A MINIMUM OF TWO (2) FEET OF FREEBOARD TO THE FINISHED DIKE ELEVATION DURING ASH DREDGING/ GYPSUM PLACEMENT ACTIVITIES.
 4. LOCATE METAL SPILLWAYS TO TIE INTO EXISTING METAL SPILLWAYS FOR PREVIOUS STAGE AS SHOWN ON 10W425-67.
 5. PROPOSED CONTOUR ELEVATIONS SHOWN FOR THE OUTER 3:1 SLOPES ARE FINISHED SURFACE ELEVATIONS (INCLUDING FINAL COVER).
 6. FINAL COVER SHALL BE PLACED AT TWO (2) FEET PLUS OR MINUS ONE (1) FOOT ABOVE FINISHED SURFACE.
 7. SLOPES SHALL BE 3:1 (HORIZONTAL TO VERTICAL) OR FLATTER, UNLESS NOTED OTHERWISE.
 8. FOR CONSTRUCTION OF AND RAISING OF WET CAST GYPSUM DIKES, SEE DETAIL A68 ON DRAWING 10W425-68. FOR CONSTRUCTION OF AND RAISING OF COMPACTED ASH DIKES, SEE DETAIL A72 ON DRAWING 10W425-72.
 9. PERIMETER DRAINS WITHIN THE OUTER WET-CAST GYPSUM DIKES AND ASH DIKES ARE NOT SHOWN ON THESE DRAWINGS. SEE DETAILS REFERENCED IN NOTE 4.
 10. INSTALL UNDERDRAINS FOR EXISTING DREDGE CELL PRIOR TO RAISING DIKES ABOVE EL. 810, AND PRIOR TO RESUMPTION OF DREDGING OPERATIONS.
 11. NOTIFY TENNESSEE ONE CALL (800) 351-1111 PRIOR TO EXCAVATING FOR INSTALLATION TO RESUMPTION OF DREDGING OPERATIONS. INSTALL MW-4 THRU MW-9.
 12. WHEN DREDGING OPERATIONS RESUME, MONITOR WATER SURFACE ELEVATION AT MW 1-9 ON A WEEKLY BASIS WHILE DREDGE POND IS BEING FILLED. REPORT OBSERVATIONS TO TVA FOSSIL ENGINEERING SERVICE (FES). FES WILL NOTIFY WHEN TO INCREASE FREQUENCY OF, OR SUSPEND MONITORING.
 13. IMMEDIATELY TO TVA FES ANY SIGNS OF SEEPAGE THRU THE DIKE OR IF SATURATED GROUND CONDITIONS DEVELOP.
 14. INSTALL UNDER DRAIN AS SHOWN ON DETAIL A73 ON 10W425-73. SLOPE UNDERDRAIN 1% MIN SLOPE & PROVIDE OUTLET PIPE ON APPROXIMATE 200 FT SPACING. PLACE OUTLETS AT LOW POINTS OF ELEVATION.
 15. TERRACE AT EL. 795 NOT SHOWN. INSTALL UNDERDRAIN AT THIS TERRACE.
 16. PRIOR TO FINAL CLOSURE, STRIP EXISTING COVER SOIL AND VEGETATION FROM UNDERDRAIN LINES TO EXPOSE UNDERDRAIN. COVER WITH PERMEABLE CLAY LAYER OR GEOMEMBRANE, AS SHOWN ON FINAL COVER DETAILS.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 9.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



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SCALE: 1"=50'
 YARD
 EXISTING DREDGE CELL
 STAGE 3
 SHEET 1 (810-840)
 KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING
 AUTOCAD R14 DATE 36 10W425-42
 PLOT FACTOR: 800
 W. TVA
 C.A.D. DRAWING
 DO NOT ALTER MANUALLY

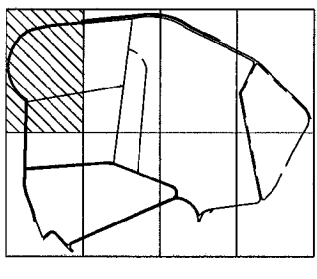
WATCHLINE A, SEE DRAWING 10W425-44
 PARSONS
 TASK COMPLETED BY: 0
 REV NO.

36 | C | 10W425-43 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12

NOTES:
 1. FOR GENERAL NOTES SEE 10W425-26.
 2. REVISIONS TO THIS DRAWING ARE SHOWN AS SHOWN PRIOR TO RAISING EXISTING DREDGE CELL FROM 810-840.
 3. REGRADE DITCH AS SHOWN PRIOR TO RAISING EXISTING DREDGE CELL FROM 810-840.
 4. INSTALL UNDERDRAIN AND FORCE MAIN PRIOR TO RAISING DIKES FROM 810-840. LOCATION AND CONFIGURATION OF UNDERDRAIN SYSTEM, FORCE MAIN, AND MANHOLES/PUMPS WILL BE PROVIDED LATER.
 5. TERRACE AT ELEV. 785 NOT SHOWN. LAKE AREA DURING UNDERDRAIN CONSTRUCTION AND FINAL CLOSURE. STORMWATER POLLUTION PLAN (SWPPP) INSTALLATION AND FINAL CLOSURE. STORMWATER POLLUTION PLAN (SWPPP) TO BE PREPARED BY TVA FES (LATER).

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

KEY PLAN

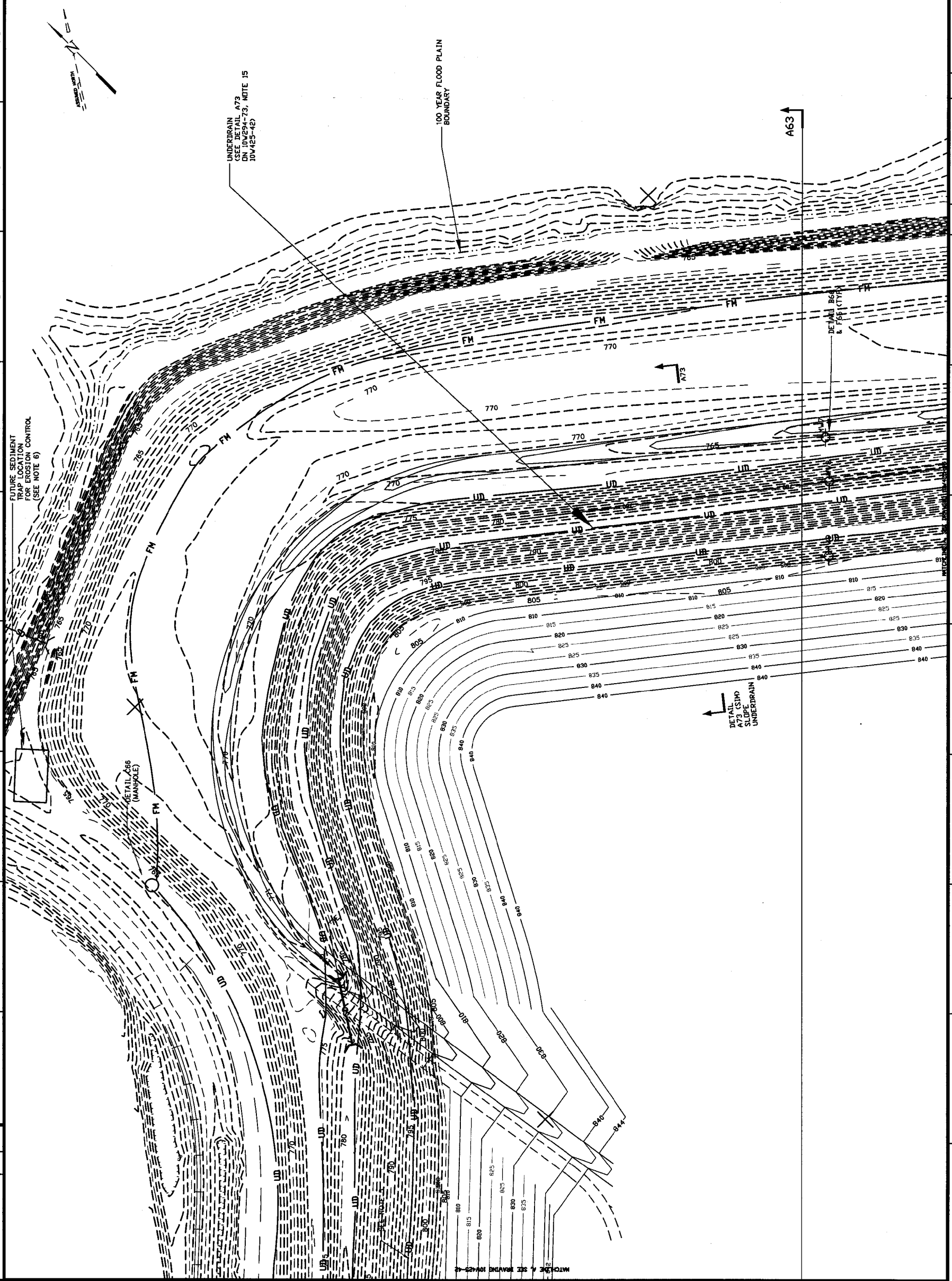


DATE	ISSUED FOR	BY	DATE	BY	DATE	BY
10/15/83	DESIGN	J.P. TAYLOR	10/15/83	DESIGN	J.P. TAYLOR	10/15/83
10/15/83	CHECKED	J.L. PETTY	10/15/83	CHECKED	J.L. PETTY	10/15/83
10/15/83	APPROVED	J.E. ADAM	10/15/83	APPROVED	J.E. ADAM	10/15/83

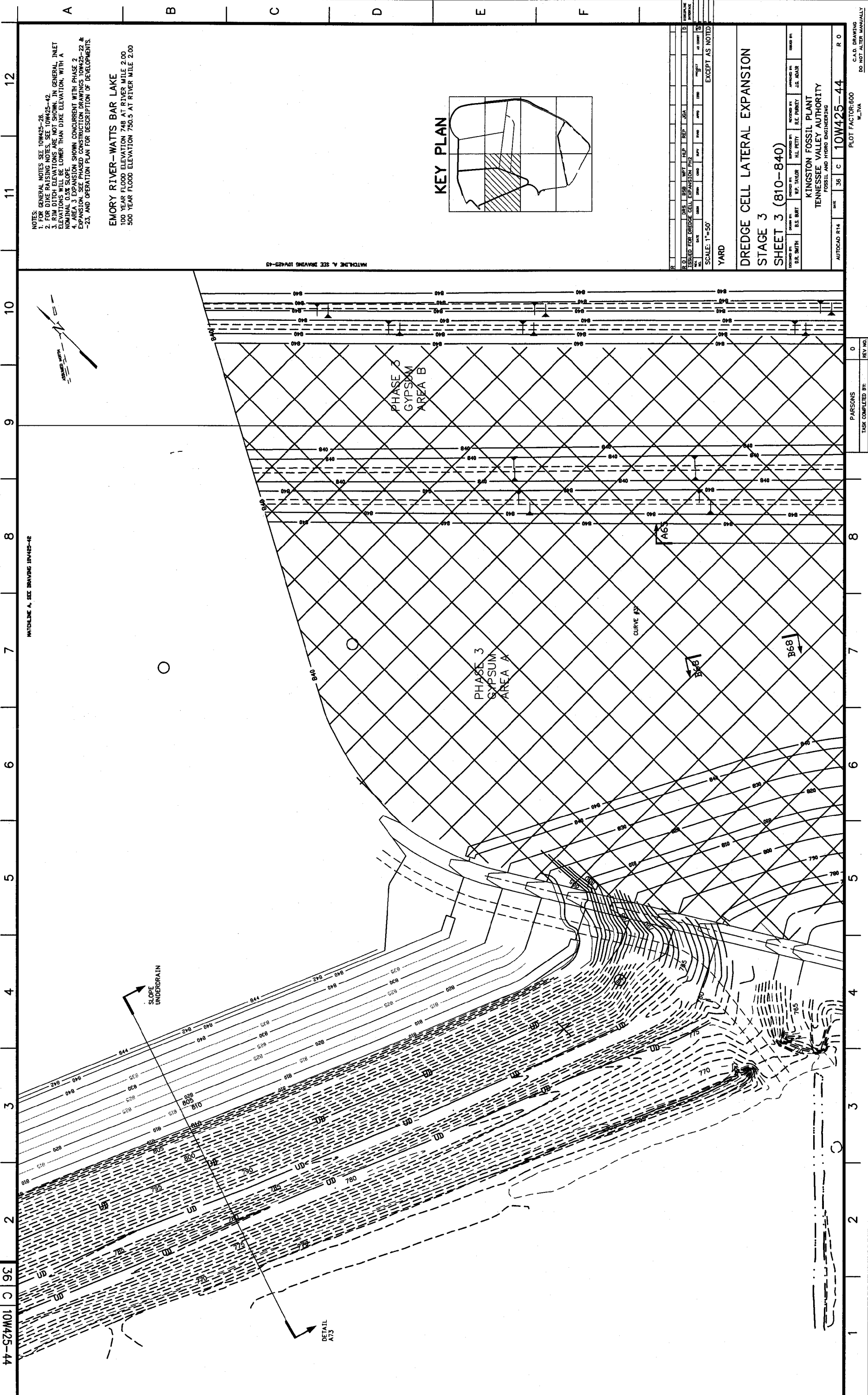
SCALE: 1"=50'
 YARD
 EXCEPT AS NOTED

EXISTING DREDGE CELL
 STAGE 3
 SHEET 2 (810-840)

DESIGNED BY: J.E. SMITH
 DRAWN BY: J.P. TAYLOR
 CHECKED BY: J.L. PETTY
 APPROVED BY: J.E. ADAM
 KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING
 AUTOCAD R14 DATE: 36 | C | 10W425-43 PLOT FACTOR: 800 WVA DO NOT ALTER MANUALLY

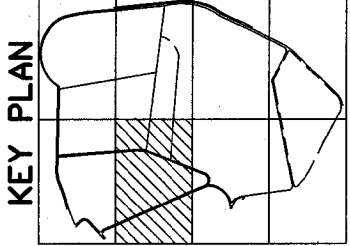


PARSONS
 TASK COMPLETED BY: 0 REV NO.



NOTES:
 1. FOR GENERAL NOTES SEE 10W425-26
 2. FOR DIKE RAISING NOTES SEE 10W425-42
 3. RIM DITCH ELEVATIONS ARE NOT SHOWN. IN GENERAL, INLET ELEVATIONS WILL BE LOWER THAN DIKE ELEVATION, WITH A NOMINAL 0.5% SLOPE.
 4. AREA 3 EXPANSION SHOWN CONCURRENT WITH PHASE 2 EXPANSION. THIS AREA IS NOT TO BE CONSIDERED FOR PHASE 2, 2A, AND OPERATION PLAN FOR DESCRIPTION OF DEVELOPMENTS.

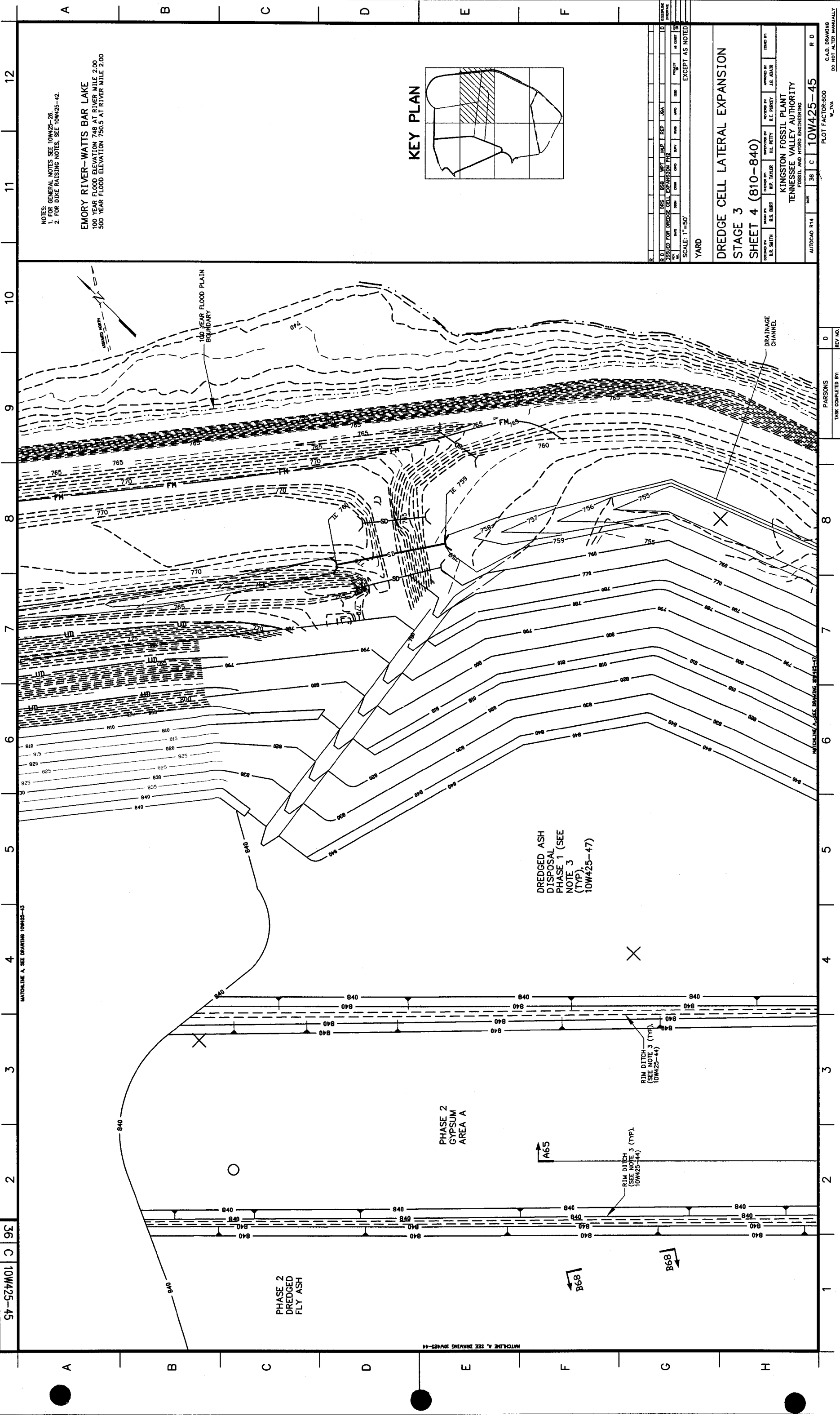
EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



DATE	BY	CHKD BY	APP'D BY	SCALE	EXCEPT AS NOTED
10/11/80	J.S. SMITH	J.E. PERRY	J.E. PERRY	1"=50'	
DREDGE CELL LATERAL EXPANSION STAGE 3 SHEET 3 (810-840)					
KINGSTON FOSSIL PLANT TENNESSEE VALLEY AUTHORITY FOSSIL AND HYDRO ENGINEERING					
AUTOCAD R14 DATE 36 C 10W425-44 PLOT FACTOR:800 W:1VA					

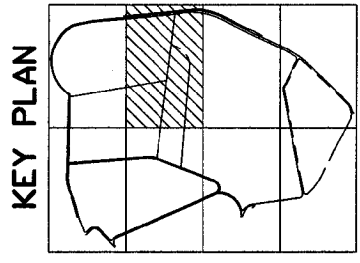
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36 C 10W425-44

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 PARSONS
 TASK COMPLETED BY: _____
 REV NO. _____
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NOTES:
 1. FOR GENERAL NOTES SEE 10W425-26.
 2. FOR DIKE RAISING NOTES, SEE 10W425-42.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.3 AT RIVER MILE 2.00



DATE	BY	CHKD	APPD	SCALE	EXCEPT AS NOTED
ISSUED FOR DREDGE CELL EXPANSION PHS	DATE	BY	CHKD	APPD	SCALE
SCALE: 1"=50'					
YARD					
DREDGE CELL LATERAL EXPANSION					
STAGE 3					
SHEET 4 (810-840)					
DESIGNED BY	CHECKED BY	APPROVED BY	DATE		
E.L. SMITH	J.L. PETTY	J.E. FISHER	J.E. JARVIS		
KINGSTON FOSSIL PLANT					
TENNESSEE VALLEY AUTHORITY					
FOSSIL AND HYDRO ENGINEERING					
AUTOCAD R14	DATE	BY	CHKD	APPD	REV NO.
	01/26/00	J.E. JARVIS	J.E. FISHER	J.E. JARVIS	0
PLOT FACTOR: 600					
C.A.D. DRAWING					
DO NOT ALTER MANUALLY					

36 C 10W425-45

DREDGED ASH DISPOSAL PHASE 1 (SEE NOTE 3 (TYP), 10W425-47)

PHASE 2 GYPSUM AREA A

PHASE 2 DREDGED FLY ASH

RIM DITCH (SEE NOTE 3 (TYP), 10W425-44)

RIM DITCH (SEE NOTE 3 (TYP), 10W425-44)

A65

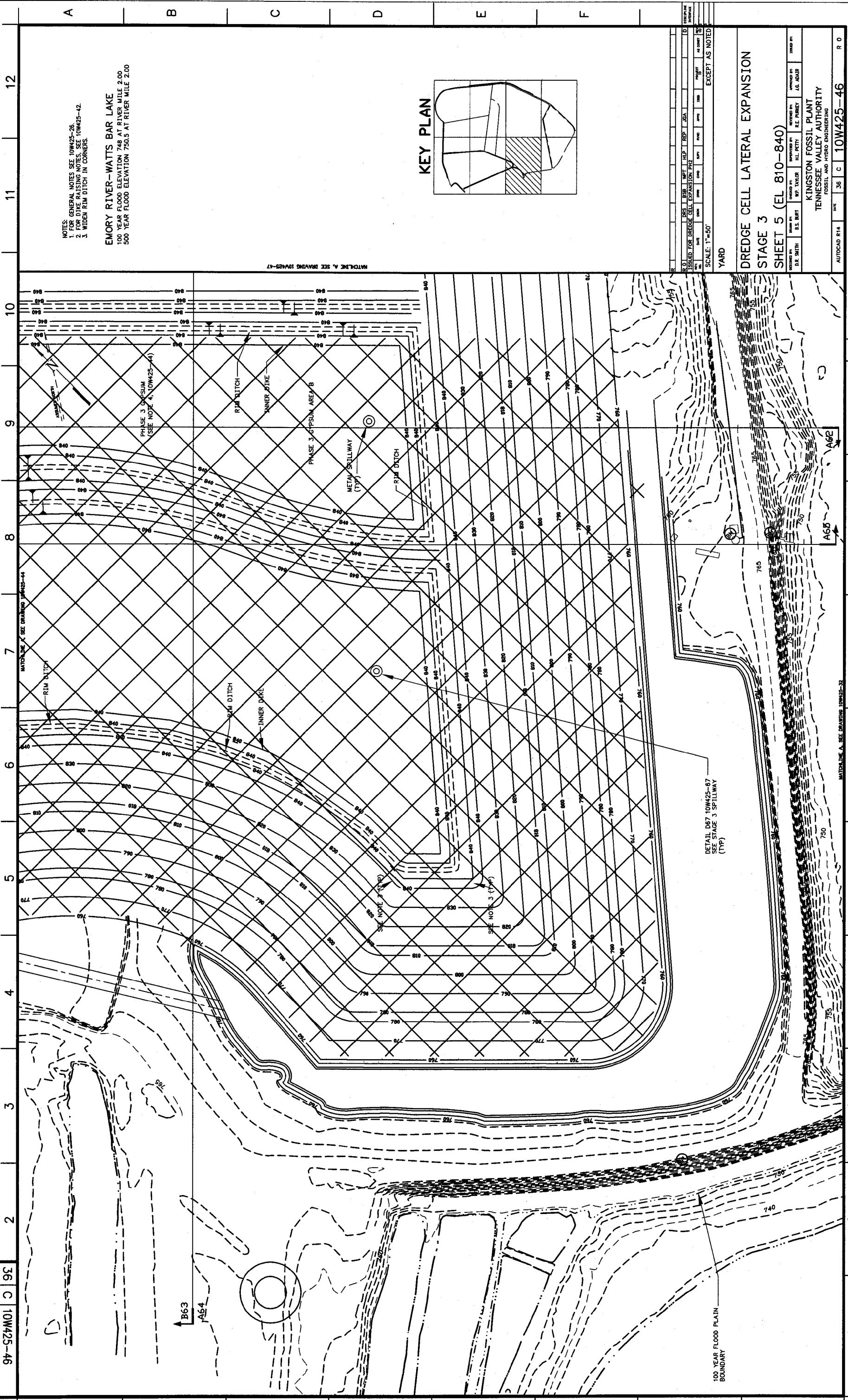
B6B

B6B

MATCHLINE A, SEE DRAWING 10W425-43

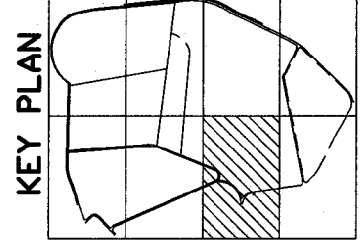
MATCHLINE A, SEE DRAWING 10W425-44

PARSONS
 TASK COMPLETED BY: _____
 REV NO. 0



NOTES:
 1. FOR GENERAL NOTES SEE 10W425-26
 2. FOR DIKE RAISING NOTES, SEE 10W425-42
 3. WIDEN RIM DITCH IN CORNERS.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00



DATE	BY	CHKD	APPD	SCALE	EXCEPT AS NOTED
ISSUED FOR DREDGE CELL EXPANSION PHASE 3	DATE	DATE	DATE	1"=50'	
YARD					
DREDGE CELL LATERAL EXPANSION					
STAGE 3					
SHEET 5 (EL 810-840)					
DESIGNED BY D.E. SMITH	CHECKED BY R.P. TAYLOR	APPROVED BY J.E. FURNEY	DATE 11/15/78	SCALE 1"=50'	EXCEPT AS NOTED
KINGSTON FOSSIL PLANT TENNESSEE VALLEY AUTHORITY FOSSIL AND HYDRO ENGINEERING					
AUTOCAD R14	DATE	36	C	10W425-46	R 0

36 C 10W425-46

PARSONS TASK COMPLETED BY: 0

REVISION NO. 0

SCALE: 1"=50'

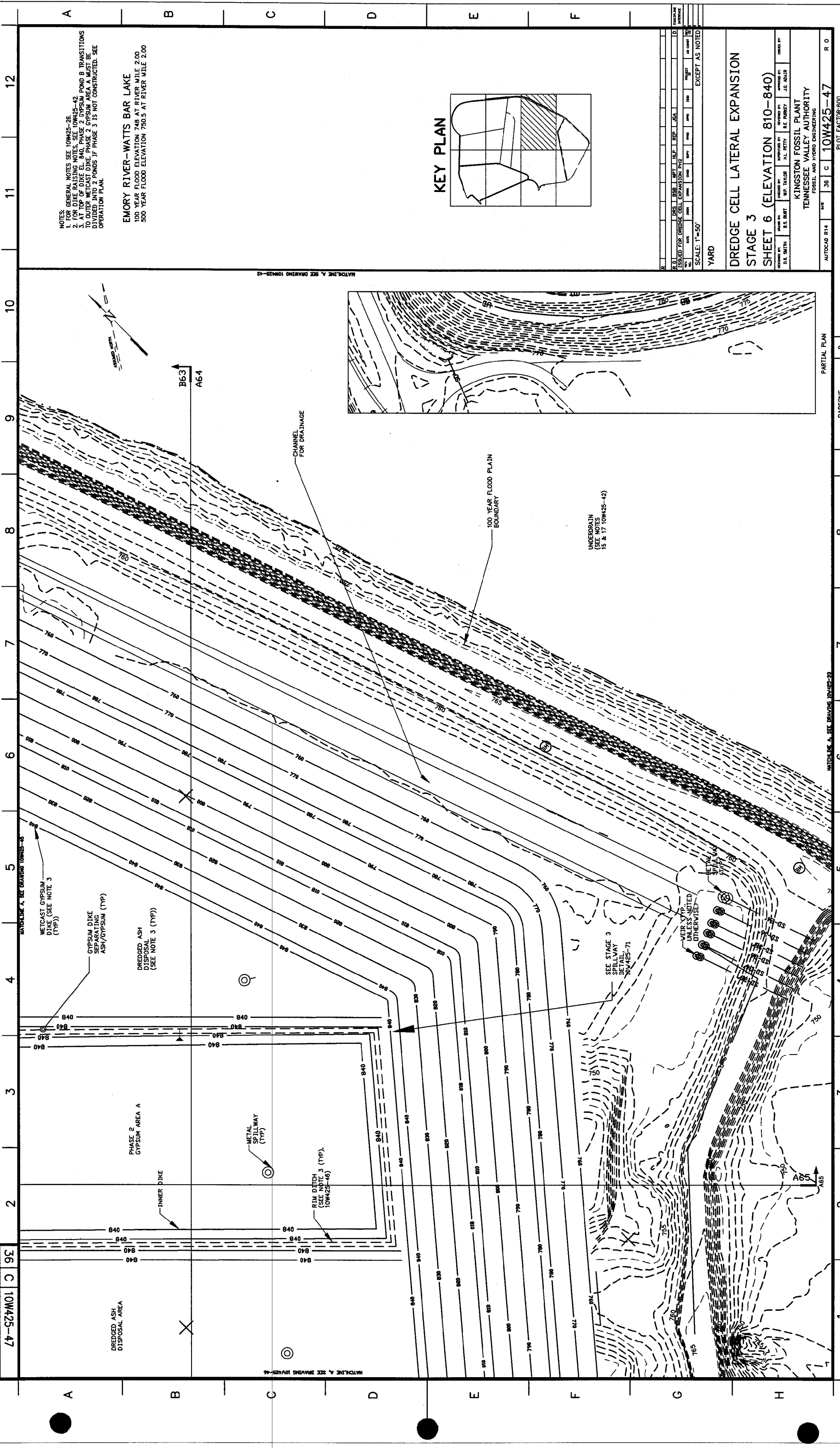
EXCEPT AS NOTED

PLOT FACTOR: 600

W.L.T.V.A

C.A.D. DRAWING

DO NOT ALTER MANUALLY

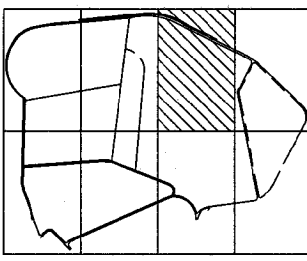


36 C 10W425-47

NOTES:
 1. FOR GENERAL NOTES SEE 10W425-28.
 2. FOR DIKE RAISING NOTES, SEE 10W425-42.
 3. AT TOP OF DIKE EL. 840, PHASE 2 GYPSUM POND B TRANSITIONS TO PHASE 3 GYPSUM AREA. PHASE 2 GYPSUM AREA MUST BE DIVIDED INTO POND B AND PHASE 3 IS NOT CONSTRUCTED. SEE OPERATION PLAN.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

KEY PLAN



DATE	BY	CHKD	APPD	REV	AS SHOWN
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	1	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	2	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	3	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	4	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	5	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	6	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	7	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	8	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	9	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	10	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	11	
10/15/00	J.E. JONES	J.E. JONES	J.E. JONES	12	

SCALE: 1"=50'

YARD

EXCEPT AS NOTED

DREDGE CELL LATERAL EXPANSION
STAGE 3
SHEET 6 (ELEVATION 810-840)

DESIGNED BY: J.E. JONES
 CHECKED BY: J.E. JONES
 DRAWN BY: J.E. JONES
 APPROVED BY: J.E. JONES

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14
 SHEET NO. 36 C 10W425-47
 PLOT FACTOR: 600
 W.T.V.A.
 C.A.D. DRAWING
 DO NOT ALTER MANUALLY

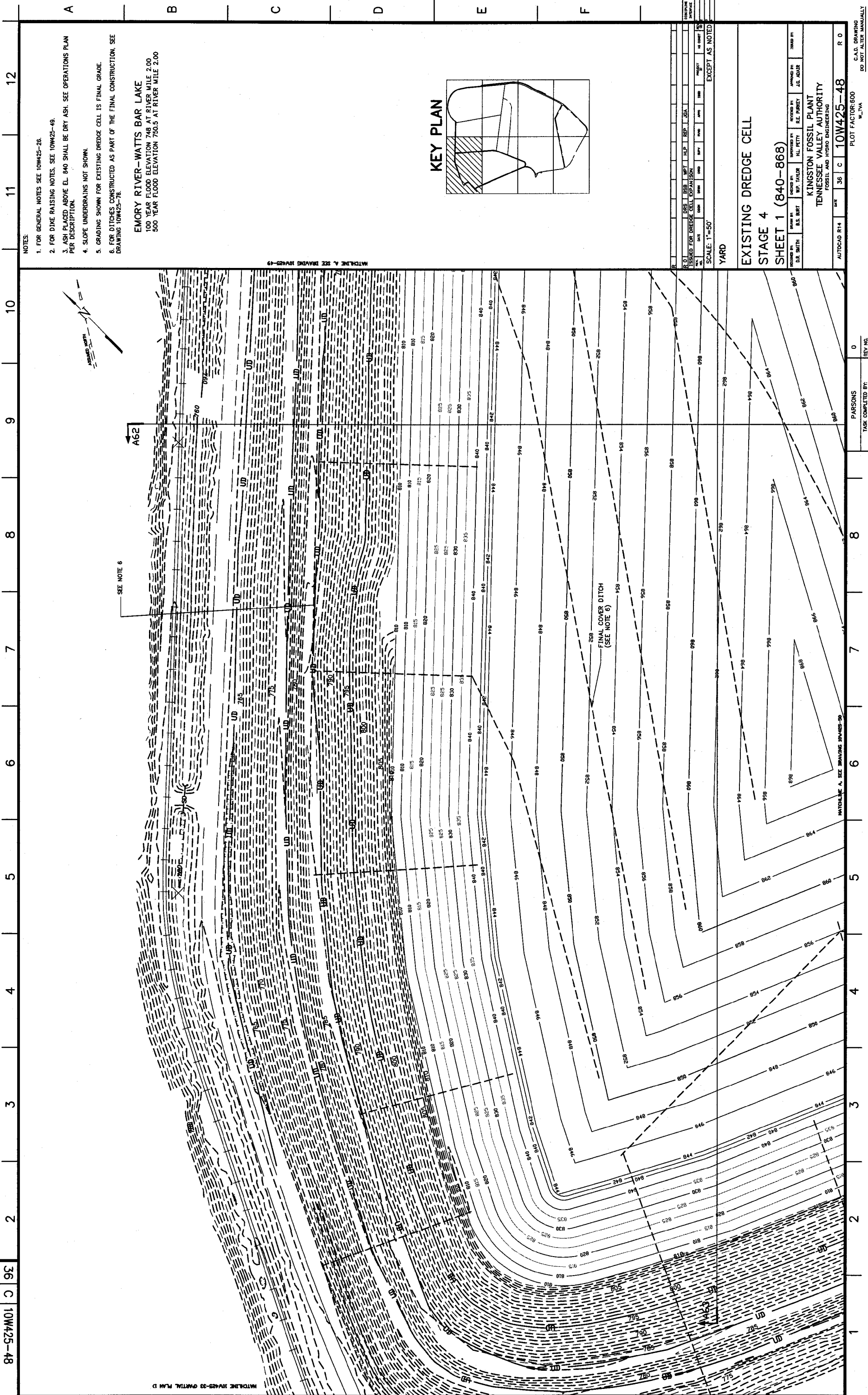
MATCHLINE A, SEE DRAWING 10W425-46

MATCHLINE A, SEE DRAWING 10W425-42

MATCHLINE A, SEE DRAWING 10W425-33

PARTIAL PLAN

PARSONS
 TASK COMPLETED BY: 0
 REV. NO.

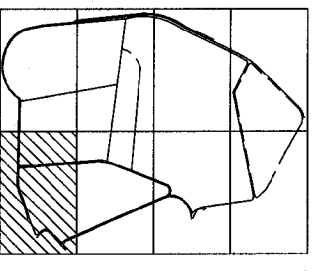


NOTES

- 1. FOR GENERAL NOTES SEE 10W425-26.
- 2. FOR DIME RAISING NOTES, SEE 10W425-49.
- 3. ASH PLACED ABOVE EL. 840 SHALL BE DRY ASH. SEE OPERATIONS PLAN PER DESCRIPTION.
- 4. SLOPE UNDERDRAINS NOT SHOWN.
- 5. GRADING SHOWN FOR EXISTING DREDGE CELL IS FINAL GRADE.
- 6. FOR DITCHES CONSTRUCTED AS PART OF THE FINAL CONSTRUCTION, SEE DRAWING 10W425-76.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

KEY PLAN



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SCALE: 1"=50'

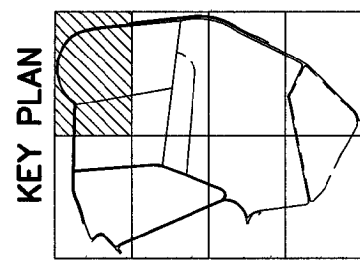
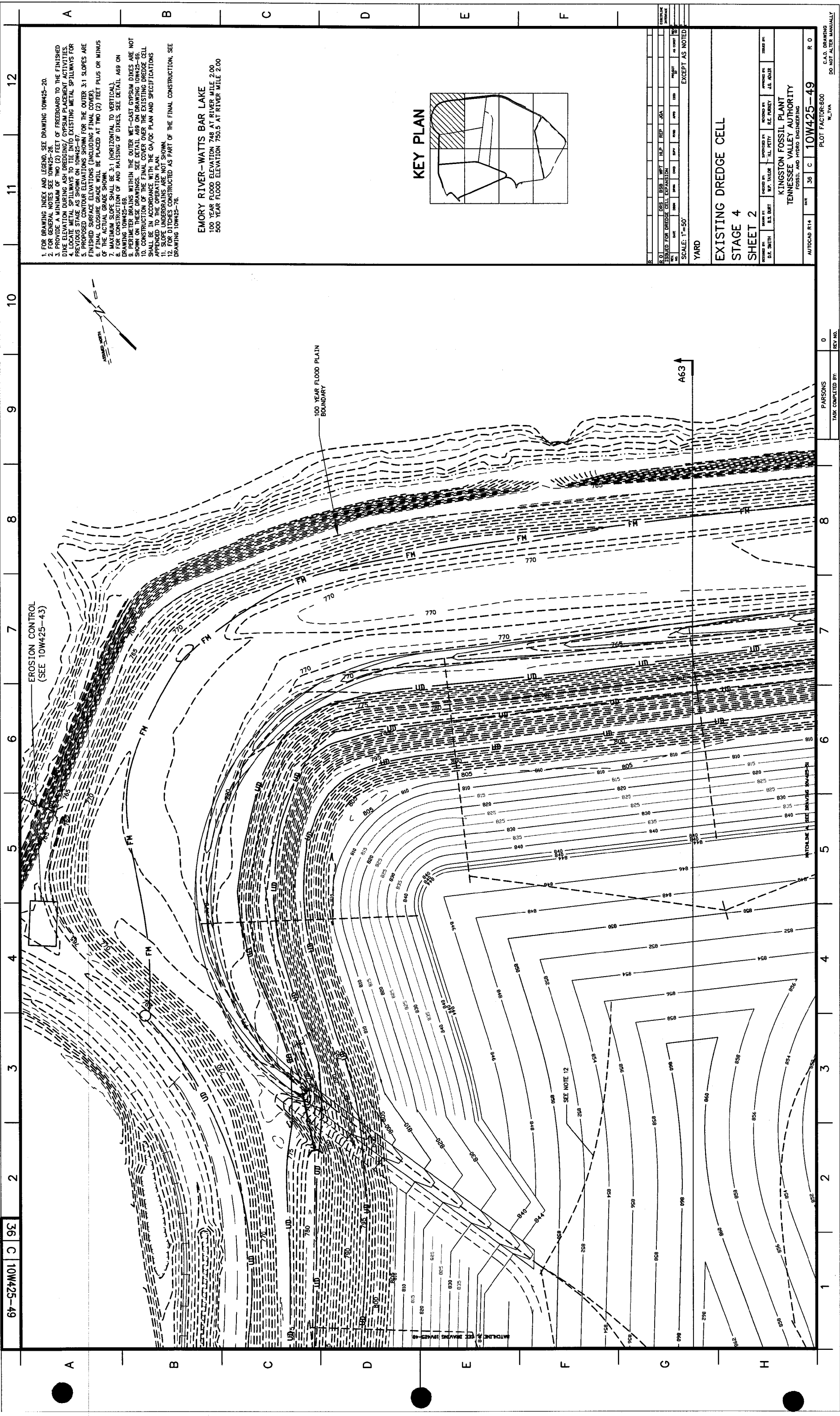
EXISTING DREDGE CELL
STAGE 4
SHEET 1 (840-868)

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14 DATE 36 C 10W425-48 PLOT FACTOR: 800 W. YVA R 0 C.A.D. DRAWING DO NOT ALTER MANUALLY

PARSONS
 TASK COMPLETED BY: 0
 REV. NO.

36 C 10W425-48



1. FOR DRAWING INDEX AND LEGEND, SEE DRAWING 10W425-20.
2. FOR GENERAL NOTES SEE 10W425-28.
3. PROVIDE A MINIMUM OF TWO (2) FEET OF FREEBOARD TO THE FINISHED DIKE ELEVATION DURING ASH DREDGING/ CYPSUM PLACEMENT ACTIVITIES. EXISTING DIKE ELEVATIONS ARE SHOWN ON THIS DRAWING.
4. PROPOSED CONTOUR ELEVATIONS SHOWN FOR THE OUTER 3:1 SLOPES ARE FINISHED SURFACE ELEVATIONS (INCLUDING FINAL COVER).
5. FINAL CLOSURE GRADE WILL BE PLACED AT TWO (2) FEET PLUS OR MINUS OF THE ACTUAL GRADE SHOWN.
6. MAXIMUM SLOPE SHALL BE 3:1 (HORIZONTAL TO VERTICAL).
7. FOR CONSTRUCTION OF AND RAISING OF DIKES, SEE DETAIL A69 ON DRAWING 10W425-68.
8. WITHIN THE OUTER WET-CAST CYPSUM DIKES ARE NOT SHOWN ON THESE DRAWINGS. SEE DETAIL A69 ON DRAWING 10W425-68.
9. CONSTRUCTION OF THE FINAL COVER OVER THE EXISTING DREDGE CELL SHALL BE IN ACCORDANCE WITH THE O&O/C PLAN AND SPECIFICATIONS APPENDED TO THE OPERATION PLAN.
10. SLOPE UNDERDRAINS ARE NOT SHOWN.
11. FOR DITCHES CONSTRUCTED AS PART OF THE FINAL CONSTRUCTION, SEE DRAWING 10W425-76.

EMORY RIVER-WATTS BAR LAKE
 100 YEAR FLOOD ELEVATION 748 AT RIVER MILE 2.00
 500 YEAR FLOOD ELEVATION 750.5 AT RIVER MILE 2.00

DESIGNER	ISSUED FOR	DATE	BY	SCALE	EXCEPT AS NOTED
DRE	DRE	11/11/11	DRE	1"=50'	

YARD

EXISTING DREDGE CELL

STAGE 4

SHEET 2

DESIGNED BY: D.E. SMITH
 CHECKED BY: W.P. TAYLOR
 APPROVED BY: J.L. PETTY
 KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14: 36 C 10W425-49 R 0

PLOT FACTOR: 800
 W.TVA
 C.A.D. DRAWING
 DO NOT ALTER MANUALLY

64-574W01 C 36

TASK COMPLETED BY: PARSONS
 REV. NO. 0