

KINGSTON FOSSIL PLANT

REPLACE KENNEDY WEIR



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
KNOXVILLE ENVIRONMENTAL FIELD OFFICE

2700 MIDDLEBROOK PIKE, SUITE 220
KNOXVILLE, TENNESSEE 37921-5602
PHONE (865) 594-6035 STATEWIDE 1-888-891-8332 FAX (865) 594-6105

February 22, 2005

Mr. Gordon G. Park, Manager of Permitted Programs
Tennessee Valley Authority
1101 Market Street
Chattanooga, Tennessee 37402-2801


RE: Proposed modification to approved construction and operation plans-TVA Kingston
Fossil Plant Landfill IDL 73-0094

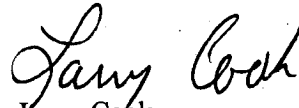
Dear Mr. Park:

The revised plan for the Tennessee Valley Authority's Kingston Fossil Plant Landfill submitted on February 18, 2005, has been reviewed in accordance with Rule Chapter 1200-1-7, Solid Waste Processing and Disposal. This modification consists of a new outfall structure to enhance water movement from the ash pond to the stilling basin. We find that the revised plan meets the regulatory requirements, and we agree that this revision should be considered a minor modification. We are therefore approving the plan as submitted. In all aspects of construction and operation affected by the modification, this plan will replace and supercede the original plan.

An approved copy of the modified plan is enclosed for your use. If you have any questions concerning this matter, do not hesitate to contact me.

Yours truly,


Paula Plont
Environmental Protection Specialist
Division of Solid Waste Management


Larry Cook
Environmental Field Office Manager
Division of Solid Waste Mangement

PJP\TVKingoutfall.doc

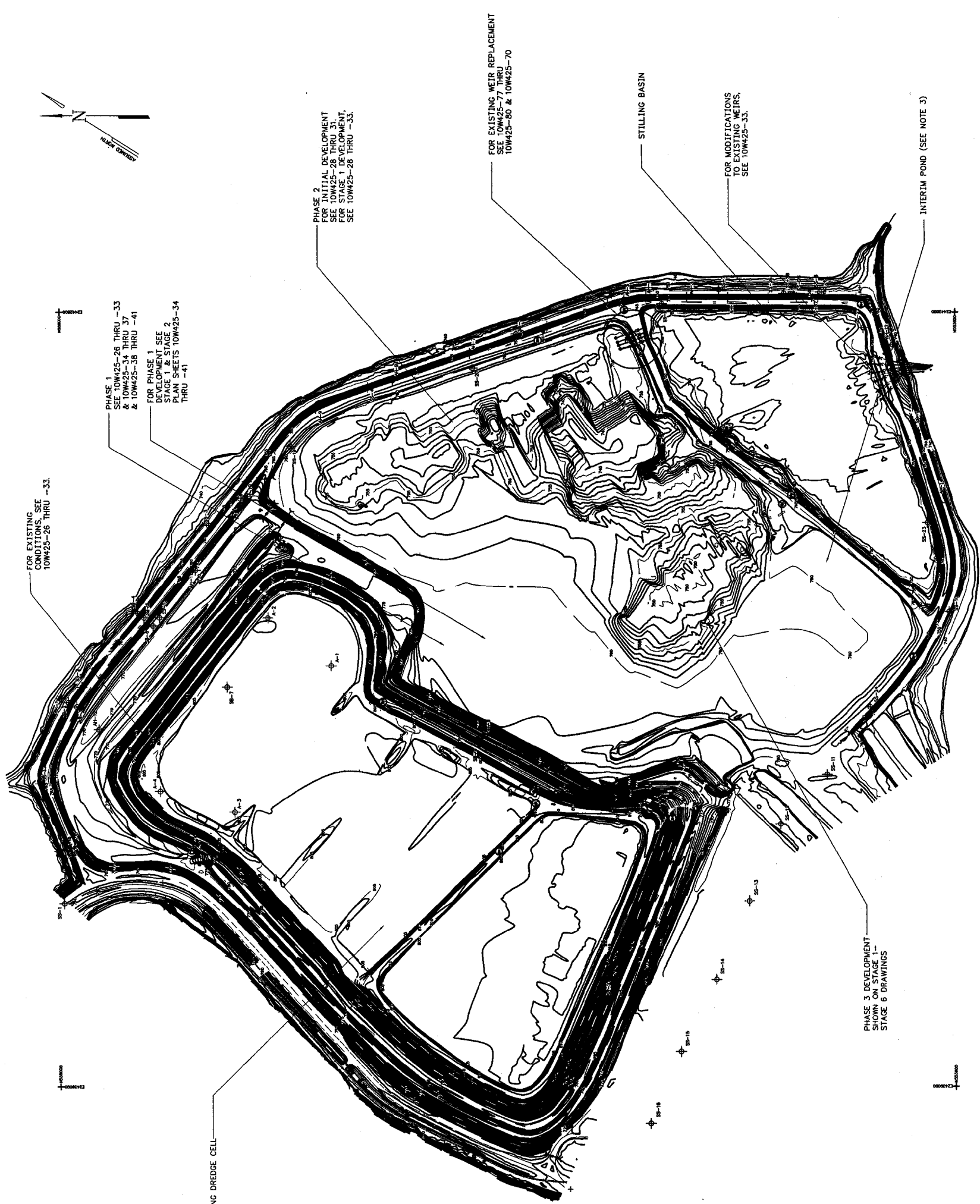
cc: DSWM, Nashville

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

A B C D E F

A B C D E F G H

36 C 10W425-24



- 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 10W425-28.
 3. FOR INTERIM POND DEVELOPMENT, SEE NOTE 3 ON 10W425-28.

| NO. | DATE | BY | CHKD BY | DESCRIPTION |
|-----|----------|----|---------|-------------|
| 1 | 05/11/00 | DL | DL | PREP |
| 2 | 05/11/00 | DL | DL | REVISE |
| 3 | 05/11/00 | DL | DL | REVISE |
| 4 | 05/11/00 | DL | DL | REVISE |
| 5 | 05/11/00 | DL | DL | REVISE |
| 6 | 05/11/00 | DL | DL | REVISE |
| 7 | 05/11/00 | DL | DL | REVISE |
| 8 | 05/11/00 | DL | DL | REVISE |
| 9 | 05/11/00 | DL | DL | REVISE |
| 10 | 05/11/00 | DL | DL | REVISE |
| 11 | 05/11/00 | DL | DL | REVISE |
| 12 | 05/11/00 | DL | DL | REVISE |

SCALE: 1" = 200'

YARD

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

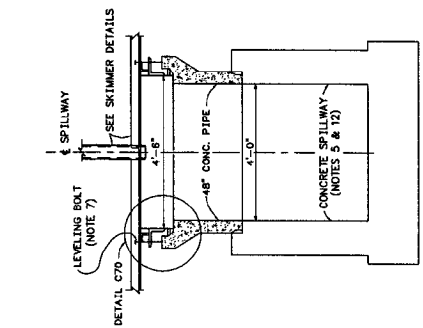
DESIGNED BY: H.L. PETTY
CHECKED BY: G.R. DOBSON
DRAWN BY: R.E. PURKEY
APPROVED BY: S.R. CANNON
REVISIONS BY: J.L. PEDERSON
DATE: 05/11/00

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

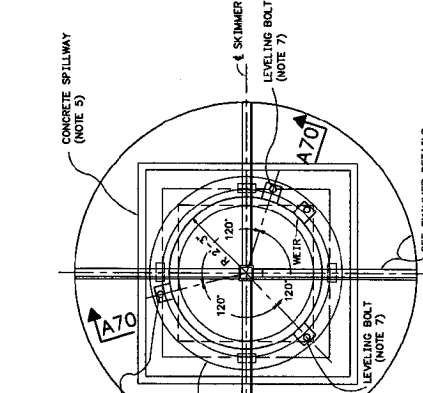
AUTOCAD R. 14 DATE 36 C 10W425-24 R 0

PLOT FACTOR: 200 W. T/A DO NOT ALTER MANUALLY

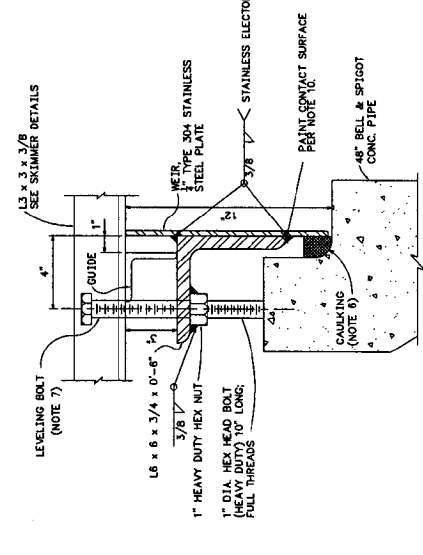
TASK COMPLETED BY: _____ REV NO. _____



SECTION A70



DETAIL B70 WEIR DETAILS



DETAIL C70 3 REQUIRED 3'-1'-0"

| WEIR DISCHARGE * IN CUBIC FEET PER SECOND | | BILL OF MATERIAL | |
|---|-----------|------------------|---|
| WEIR IN FEET | DISCHARGE | ITEM | DESCRIPTION |
| 0.0 | 0.0 | WEIR | 6 x 6 x 3/4 x 0-8" ANGLE WITH NUT |
| 0.1 | 0.4 | PL | 1/4x12 x 14-2" TYPE 304 STAINLESS |
| 0.2 | 1.54 | SKIMMER | 120"x12 GAGE CORRUGATED METAL PIPE (NOTE 4) |
| 0.3 | 4.41 | PL | 1/2"x10-1 1/2 GALVANIZED |
| 0.4 | 7.47 | PL | 1/8" METAL COVER (BY FIELD SEE DETAILS) |
| 0.5 | 11.50 | ANGLE | 2 1/2 x 3/8 |
| 0.6 | 16.10 | ANGLE | 3 x 3 x 3/8 |
| 0.7 | 21.70 | ANGLE | 4 x 4 x 3/8 |
| 0.8 | 28.70 | | |
| 0.9 | 36.90 | | |
| 1.0 | 46.90 | | |

| BENT BAR LIST | |
|---------------|--------------------|
| BAR MARK | BENDING DIMENSIONS |
| 4L6-3 | 10 4-4 EX |
| 4T20-6 | 1 5-0 5-0 EX |
| 4U14-9 | 1 5-0 5-0 EX |
| 4L2-6 | 4 1-3 EX |

TYPE A SPILLWAYS

| BENT BAR LIST | |
|---------------|--------------------|
| BAR MARK | BENDING DIMENSIONS |
| 4L6-3 | 18 4-4 EX |
| 4T20-6 | 1 5-0 5-0 EX |
| 4U14-9 | 3 5-0 5-0 EX |

TYPE B SPILLWAYS

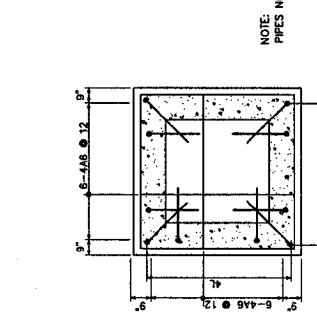
| BILL OF MATERIAL | |
|------------------|--|
| ITEM | DESCRIPTION |
| 402 | CLASS X CONCRETE |
| 418 | REINFORCING STEEL |
| 603 | 18" D REINFORCED CONCRETE PIPE-CLASS II |
| | 38" D REINFORCED CONCRETE PIPE-CLASS III |
| | 48" D REINFORCED CONCRETE PIPE-CLASS IV |

NOTES:

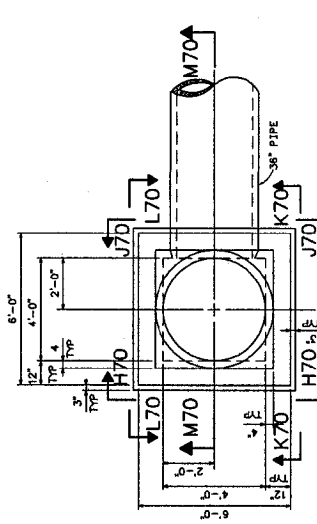
- A SECTION OF 120" DIA. CORRUGATED METAL PIPE FULLY COATED, SHALL BE USED FOR THE SKIMMER DEVICE. FABRICATION OF THE PIPE SHALL BE COMPLETE PRIOR TO COATING.
- ONE SECTION OF 48" PIPE SHALL BE INSTALLED DURING INITIAL CONSTRUCTION.
- AS ADDITIONAL SECTIONS OF 48" PIPE ARE ADDED, GROUT THE JOINT TO FORM A STABLE AND WATER TIGHT CONNECTION.
- ALL CONNECTIONS TO BE WELDED.
- FOR SPILLWAY DETAILS SEE STD. DWS. SD-C11.1.
- CAULKING SHALL EXTEND COMPLETELY AROUND THE WEIR AND FORM A WATER TIGHT SEAL.
- WHEN THE WEIR IS INSTALLED THE TOP SHALL BE LEVELED WITH THE USE OF LEVELING BOLTS.
- ALL WELDS BY TWA FIELD SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH TWA CONSTRUCTION SPECIFICATION G29C.
- ALL WELDS BY TWA TO HAVE VISUAL INSPECTION.
- ALL SURFACES OF FABRICATED STEEL ITEMS SHALL BE PAINTED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION G14, PART XIX.
- DEWATER AREA WHERE METRS ARE TO BE INSTALLED BY CONSTRUCTING ASH DIKES OR INSTALLING SHEET PILE AND REMOVING WATER FROM THE INSTALLATION AREA. DESIGN OF ASH DIKES AND/OR SHEET PILE BY TWA FES.
- PROVIDE ADEQUATE FIRM BASE FOR INSTALLATION OF CONCRETE SPILLWAY BY INSTALLING ROCK BASE OR TENSAR GEOGRID. SELECTION OF TENSAR GEOGRID, SELECTION OF TENSAR GEOGRID BY TWA FES.

NOTES:

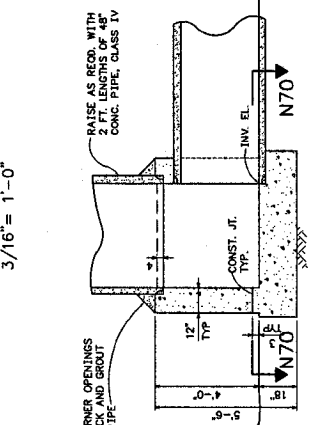
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE T-1 SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- ALL CONCRETE SHALL BE CLASS "X" IN ACCORDANCE WITH SECTION 400.
- ALL REINFORCEMENT SHALL CONFORM TO ASTM SPECIFICATION A615 GRADE 60, DEFORMED.
- DIMENSIONS SHOWN ARE TO THE CENTERLINE OF REINFORCING BARS, UNLESS OTHERWISE NOTED.
- CONCRETE CLEAR COVER DIMENSIONS ARE AS FOLLOWS:
3 INCHES FOR FACES CAST AGAINST EARTH OR ROCK;
2 INCHES FOR ALL OTHER FACES.



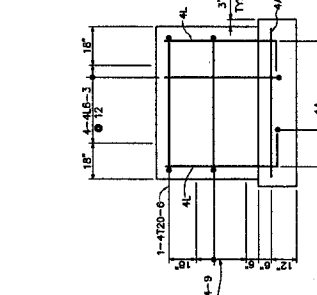
SECTION N70 (TYPE A & B)



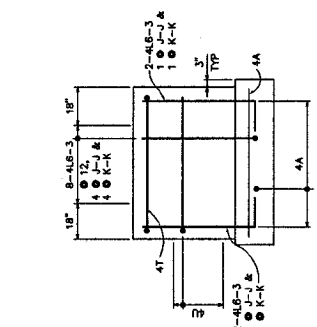
DETAIL G70 PLAN-SPILLWAY TYPE B



SECTION M70



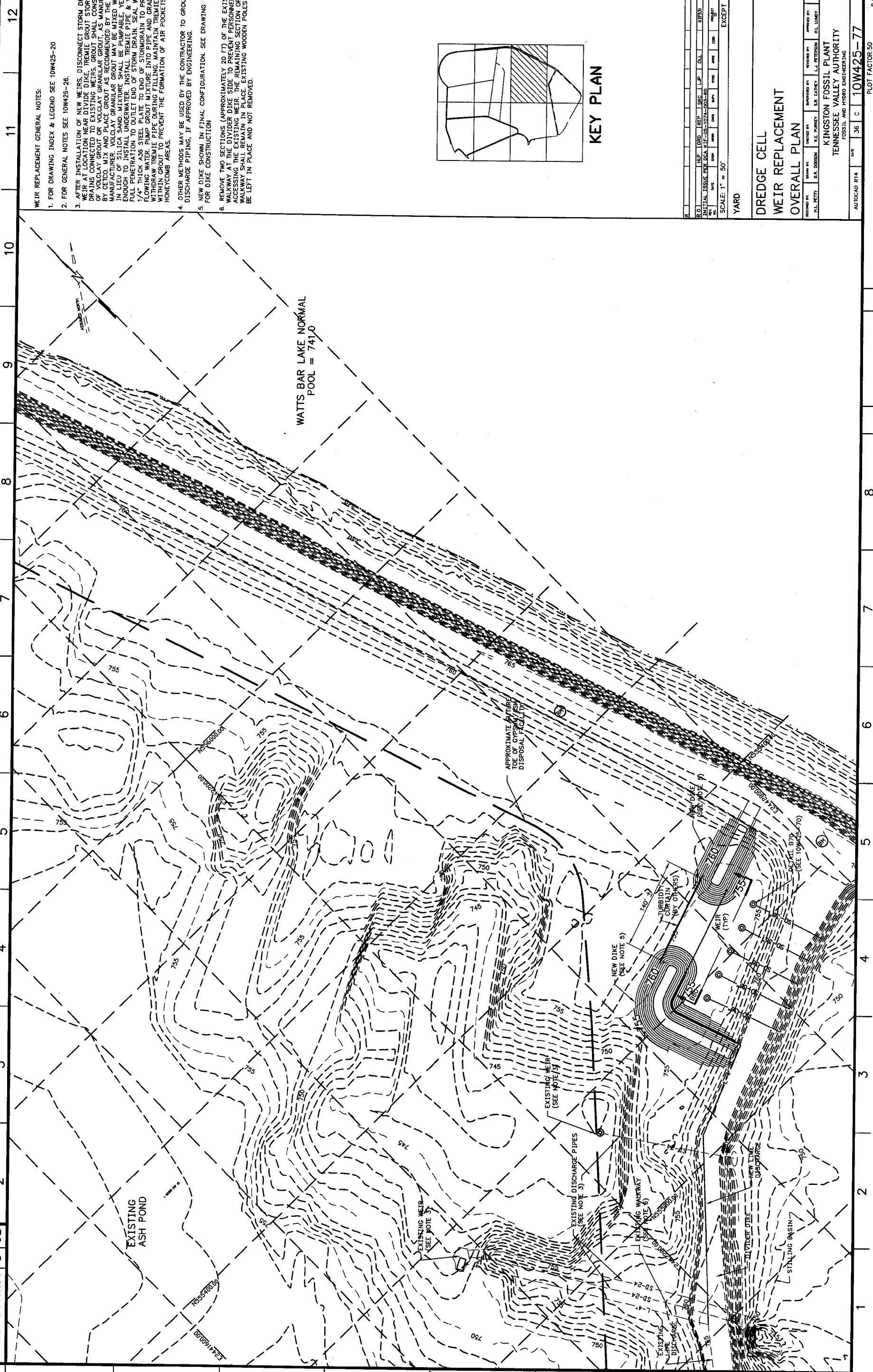
SECTION H70 SECTION J70 (OPPOSITE HAND)



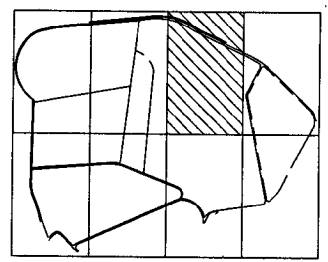
SECTION K70 SECTION L70 (OPPOSITE HAND)

| | | | |
|-------------|---------------|--------------|--|
| DATE | 3/16/12 | SCALE | NONE |
| DESIGNED BY | J.L. PETTY | CHECKED BY | J.L. PETTY |
| DRAWN BY | J.L. PETTY | APPROVED BY | J.L. PETTY |
| PROJECT NO. | 10W425-70 | PROJECT NAME | ASH DISPOSAL AREA LATERAL EXPANSION WEIR & SKIMMER DETAILS |
| CAD FILE | 10W425-70.dwg | SCALE | NONE |
| DATE | 3/16/12 | SCALE | NONE |
| PROJECT NO. | 10W425-70 | PROJECT NAME | ASH DISPOSAL AREA LATERAL EXPANSION WEIR & SKIMMER DETAILS |
| CAD FILE | 10W425-70.dwg | SCALE | NONE |
| DATE | 3/16/12 | SCALE | NONE |

36 C 93 10W425-77



- WEIR REPLACEMENT GENERAL NOTES:**
1. FOR DRAWING INDEX & LEGEND SEE 10W425-20
 2. FOR GENERAL NOTES SEE 10W425-26.
 3. AFTER INSTALLATION OF NEW WEIRS, DISCONNECT STORM DRAIN FROM WEIR AT LOCATION NEAR DRAIN. REPAIR GROUT STORM DRAIN. DRAINS CONNECTED TO EXISTING WEIRS. GROUT SHALL BE MANUFACTURED BY CETO, MIX AND PLACE GROUT AS RECOMMENDED BY THE MANUFACTURER. VOLCLAY GRANULAR GROUT MAY BE MIXED WITH FLYASH ENRICHED OF SILICA SAND. MIXTURE SHALL BE PUMPABLE, YET STIFF ENOUGH TO SET TO SOLID STATE. STORM DRAIN SHALL BE FULLY PENETRATED TO GROUT. INSTALL TREMIE PIPE & VERIFY FULL PENETRATION TO GROUT. STORM DRAIN SHALL BE WITHDRAWN TREMIE PIPE DURING FILLING. MAINTAIN TREMIE PIPE WITHIN GROUT TO PREVENT THE FORMATION OF AIR POCKETS OR HONEYCOMB AREAS.
 4. OTHER METHODS MAY BE USED BY THE CONTRACTOR TO GROUT WEIR DISCHARGE PIPING, IF APPROVED BY ENGINEERING.
 5. NEW DIKE SHOWN IN FINAL CONFIGURATION. SEE DRAWING 10W425-78 FOR DIKE CONSTRUCTION
 6. REMOVE TWO SECTIONS (APPROXIMATELY 20 FT) OF THE EXISTING WALKWAY TO THE EAST SIDE TO PREVENT PERSONNEL FROM ACCESSING THE EXISTING WEIR. REMAINING SECTION OF THE WALKWAY SHALL REMAIN IN PLACE. EXISTING WOODEN POLES SHALL BE LEFT IN PLACE AND NOT REMOVED.



KEY PLAN

| NO. | DATE | ISSUE | BY | CHKD. | APPD. | SCALE | AS NOTED |
|-----|----------|----------|--------|--------|--------|----------|-----------------|
| 1 | 10/20/77 | ISSUE | J.L.P. | J.L.P. | J.L.P. | 1" = 50' | EXCEPT AS NOTED |
| 2 | 11/15/77 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |
| 3 | 12/15/77 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |
| 4 | 01/15/78 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |
| 5 | 02/15/78 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |
| 6 | 03/15/78 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |
| 7 | 04/15/78 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |
| 8 | 05/15/78 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |
| 9 | 06/15/78 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |
| 10 | 07/15/78 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |
| 11 | 08/15/78 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |
| 12 | 09/15/78 | REVISION | J.L.P. | J.L.P. | J.L.P. | | |

SCALE: 1" = 50'
YARD

**DREDGE CELL
WEIR REPLACEMENT
OVERALL PLAN**

DESIGNED BY: H.L. PETTY
CHECKED BY: B.R. DOSSON
APPROVED BY: R.E. PURNEY, S.E. CATNEY, J.L. PETERSON, D.L. LUNDY

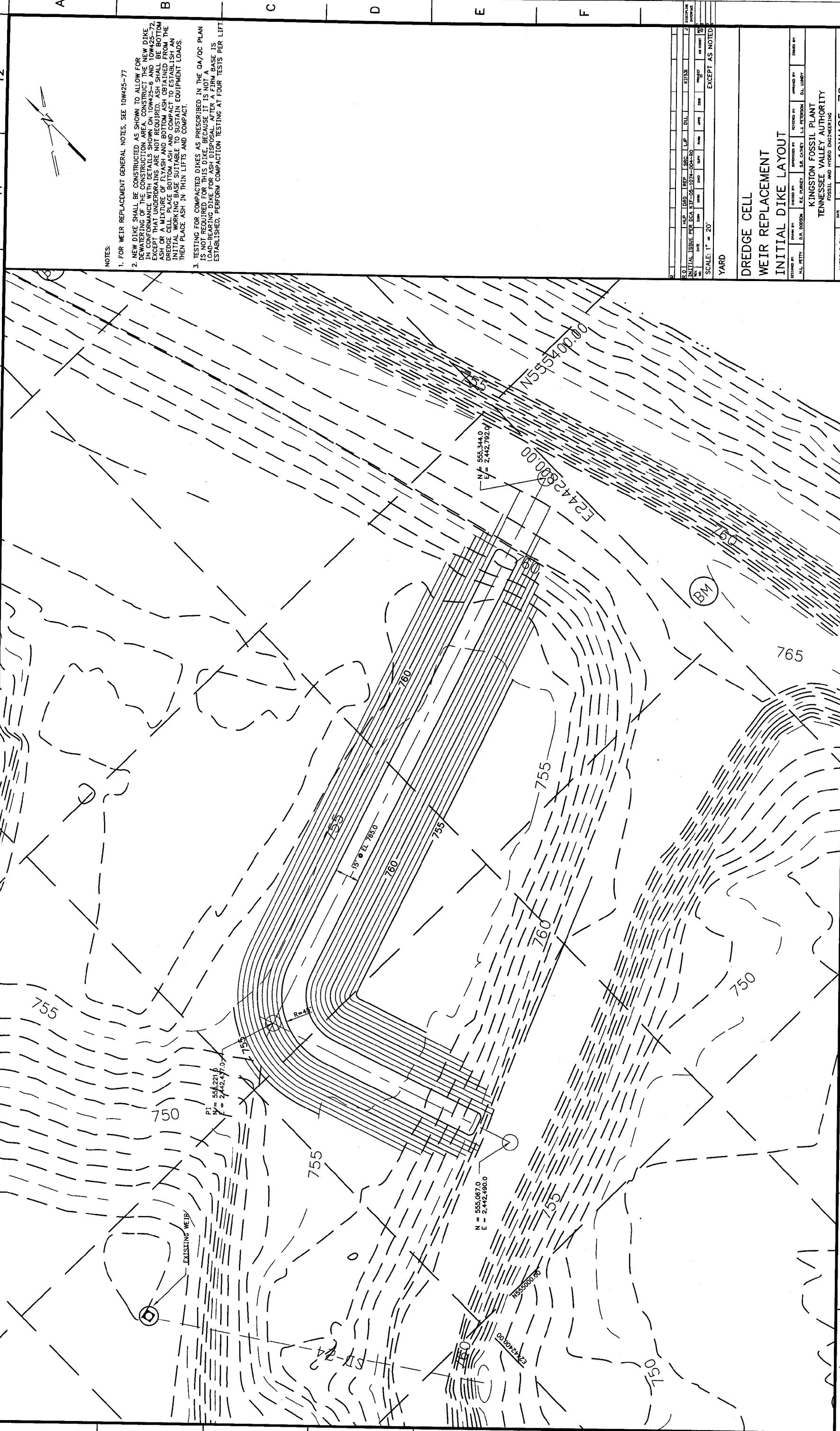
KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14
PLOT FACTOR: 50
W.TWA
10W425-77
R.0
C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: REV. NO.

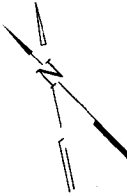
36 C 10W425-78

2 3 4 5 6 7 8 9 10 11 12



NOTES:

1. FOR WEIR REPLACEMENT GENERAL NOTES, SEE 10W425-77
2. NEW DIKE SHALL BE CONSTRUCTED AS SHOWN TO ALLOW FOR DEWATERING OF THE CONSTRUCTION AREA. CONSTRUCT THE NEW DIKE IN CONFORMANCE WITH DETAILS SHOWN ON 10W425-6 AND 10W425-72 EXCEPT THAT UNDERDRAINS ARE NOT REQUIRED. ASH SHALL BE BOTTOM ASH OR MIXTURE OF FLYASH AND BOTTOM ASH OBTAINED FROM THE DREDGE. COMPACT ASH TO FIRM BASE AND COMPACT TO ESTABLISH AN INITIAL WORKING BASH SUITABLE FOR PLACING AND COMPACTING EQUIPMENT LOADS. THEN PLACE ASH IN THIN LIFTS AND COMPACT.
3. TESTING FOR COMPACTED DIKES AS PRESCRIBED IN THE 0A/QC PLAN IS NOT REQUIRED FOR THIS DIKE, BECAUSE IT IS NOT A LOAD-BEARING DIKE FOR ASH DISPOSAL. AFTER A FIRM BASE IS ESTABLISHED, PERFORM COMPACTION TESTING AT FOUR TESTS PER LIFT.



| | | | | | |
|----------|-------------|-------------|-------------|---------------|------------|
| DATE | BY | CHKD | APPD | PROJECT | AS COMPT |
| 11/11/78 | D.L. DODSON | E.E. PURNEY | S.E. CAINBY | L.L. PETERSON | D.L. LUNDY |

SCALE: 1" = 20'
YARD
EXCEPT AS NOTED

**DREDGE CELL
WEIR REPLACEMENT
INITIAL DIKE LAYOUT**

DESIGNED BY: H.L. PETTY
CHECKED BY: D.L. DODSON
APPROVED BY: S.E. CAINBY
DRAWN BY: L.L. PETERSON
DATE: 11/11/78
PROJECT: KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

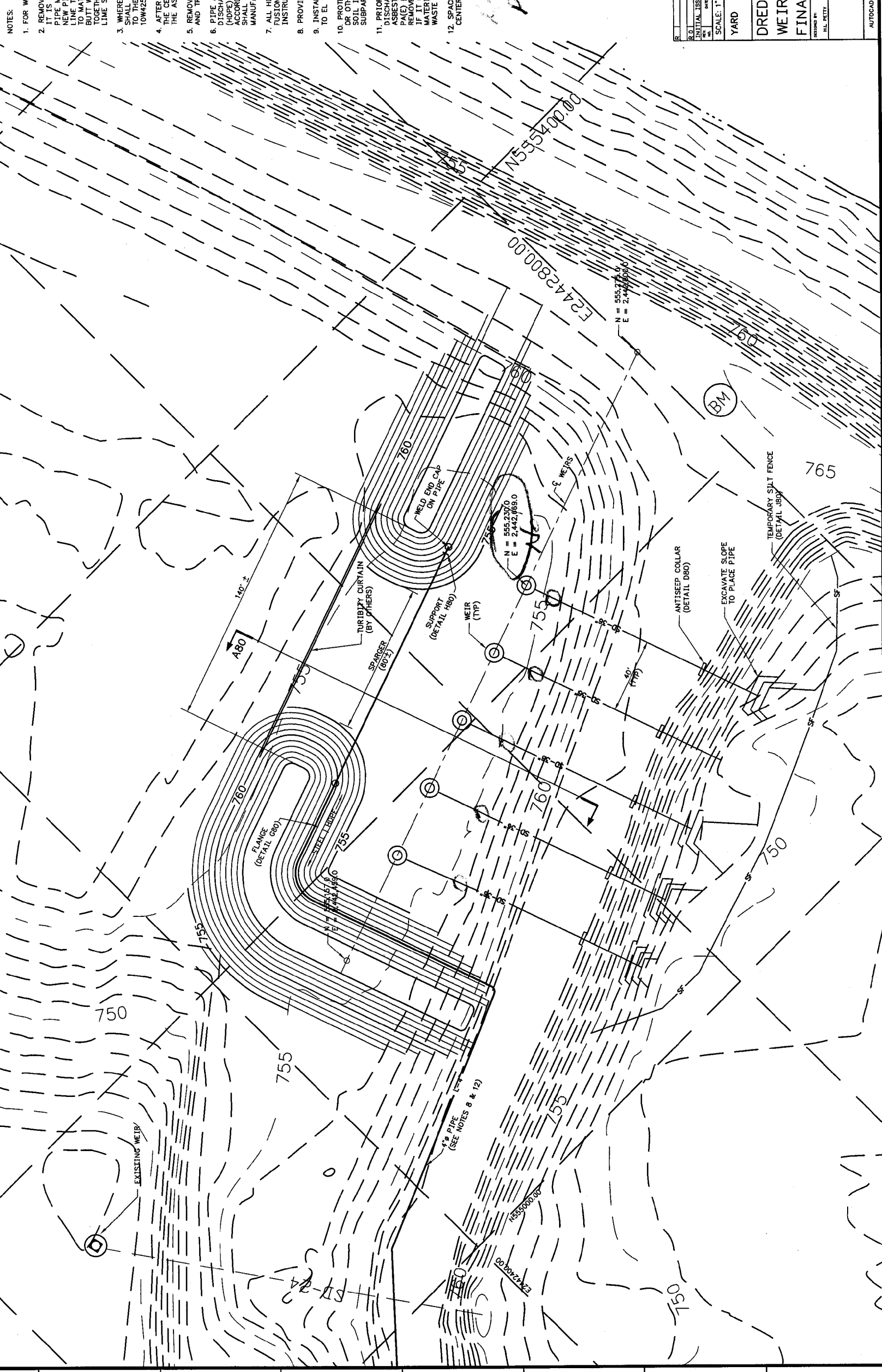
AUTOCAD R14
SHEET 36 C
PLOT FACTOR: 20
10W425-78
R 0
C.A.D. DRAWING
DO NOT ALTER MANUALLY

TASK COMPLETED BY: _____
REV. NO. _____

67-5249010 C 36

2 3 4 5 6 7 8 9 10 11 12

A B C D E F G H



NOTES:

1. FOR WEIR REPLACEMENT GENERAL NOTES, SEE 10W425-77.
2. REMOVE EXISTING LIME SLUDGE DISCHARGE LINE WHERE IT IS ROUTED FROM THE BANK TO THE EXISTING WEIR. NEW PIPE TO BE REUSED AT CONSTRUCTOR'S OPTION, OR A NEW PIPE USED TO REROUTE THE LIME SLUDGE DISCHARGE LINE TO THE NEW WEIRS. NEW PIPE SHALL BE STEEL PIPE WITH WELDED OR USE FLANGE CONNECTION TO SPlice THE PIPE TOGETHER WHERE IT IS REROUTED TO THE NEW WEIR. INSTALL LIME SLUDGE DISCHARGE LINE TO THE NEW WEIRS AS SHOWN.
3. WHERE DISCHARGE PIPE IS TO BE SUBMERGED, PIPING SHALL BE HDPE, SDR 11, WELD STEEL FLANGE ADAPTOR SHALL BE FABRICATED AS A SPARGER. SEE DETAILS ON 10W425-80.
4. AFTER COMPLETION OF WEIR INSTALLATION, EXCAVATE THE CENTER SECTION FROM THE DIKE AS SHOWN, TO ALLOW THE ASH POND TO DISCHARGE TO THE STILLING BASIN.
5. REMOVE SECTIONS OF DISCHARGE FROM EXISTING WEIRS AND TREATIE GROUT AS DISCUSSED IN NOTE 3 ON 10W425-77.
6. PIPE AND FITTING USED TO CONSTRUCT HDPE LIME SLUDGE DISCHARGE PIPING SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE) PE 3408 PIPE. CELL CLASSIFICATIONS 345444C IN ACCORDANCE WITH ASTM D 3350. FITTING AND JOINTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. ALL HDPE PIPING AND FITTINGS SHALL BE JOINED BY BUTT FUSION WELDING, IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
8. PROVIDE MINIMUM 0.5% SLOPE ON LIME SLURRY PIPE.
9. INSTALL WEIR AT EL. 760 AS SHOWN. WEIR WILL BE LOWERED TO EL. 758 PRIOR TO GYPSUM/ASH DISPOSAL FACILITY CONSTRUCTION.
10. PROTECT EXCAVATIONS BY SHORING, BRACING, SHEET PILING, OR OTHER METHODS AS REQUIRED TO PREVENT CAVE-IN OF LOOSE SOILS INTO EXCAVATION IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P - EXCAVATION.
11. PRIOR TO REMOVING INSULATION FROM EXISTING LIME SLURRY DISCHARGE PIPE, DETERMINE WHETHER INSULATION CONTAINS ASBESTOS. CONTACT KIF ENVIRONMENTAL PROGRAM ADMINISTRATOR (LINDA CAMPBELL) PRIOR TO REMOVING INSULATION. REMOVE INSULATION IN ACCORDANCE WITH THE ASBESTOS-CONTAINING MATERIALS DISPOSAL REQUIREMENTS OF ASBESTOS-CONTAINING MATERIALS IN ACCORDANCE WITH STATE OF TENNESSEE SOLID WASTE REQUIREMENTS.
12. SPACE SUPPORTS FOR 4" LIME SLURRY PIPING ON 10' CENTER TO CENTER. SEE PIPE SUPPORT DETAIL H80 ON 10W425-80.

REVISED 10/74
 PIC 05-1091
 AM-11

| NO. | DATE | BY | DESCRIPTION |
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| 1 | | | PREPARED |
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| 3 | | | DESIGNED |
| 4 | | | AS NOTED |

SCALE: 1" = 20'

YARD

**DREDGE CELL
 WEIR REPLACEMENT
 FINAL DIKE & WEIR LAYOUT**

DESIGNED BY: H.L. KELTY
 CHECKED BY: S.E. PURNEY
 ORDER NO.: 67-5249010
 DATE: 10/74

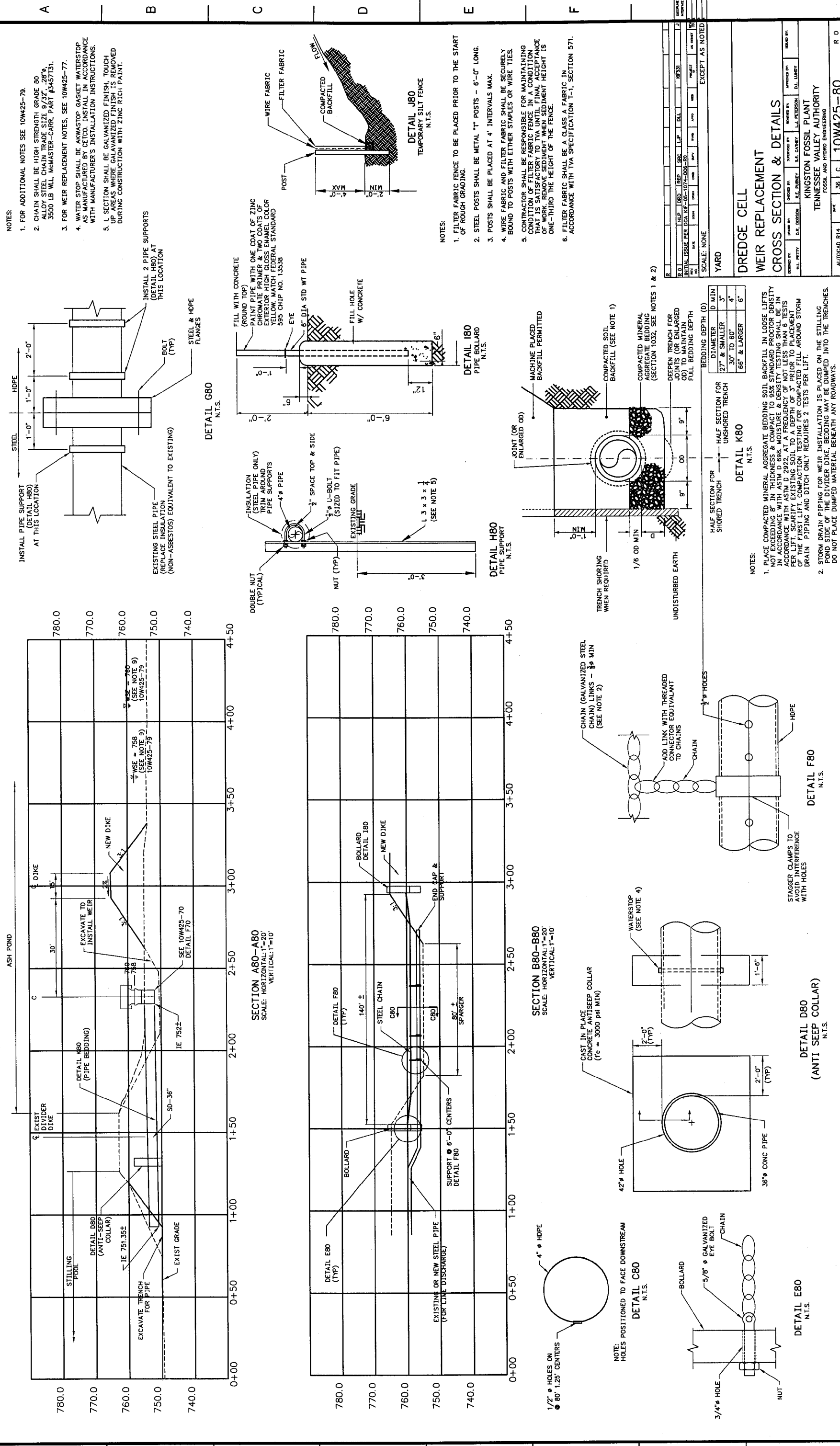
APPROVED BY: L.L. PETERSON
 DATE: 10/74

KINGSTON FOSSIL PLANT
 TENNESSEE VALLEY AUTHORITY
 FOSSIL AND HYDRO ENGINEERING

AUTOCAD R14
 SHEET: 36 C 10W425-79
 PLOT FACTOR: 20
 R.O.

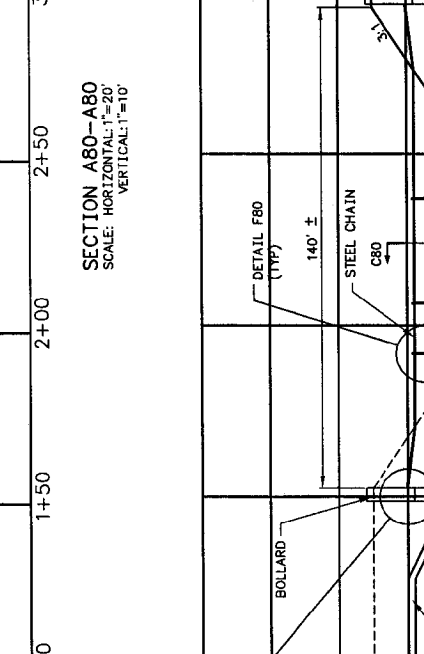
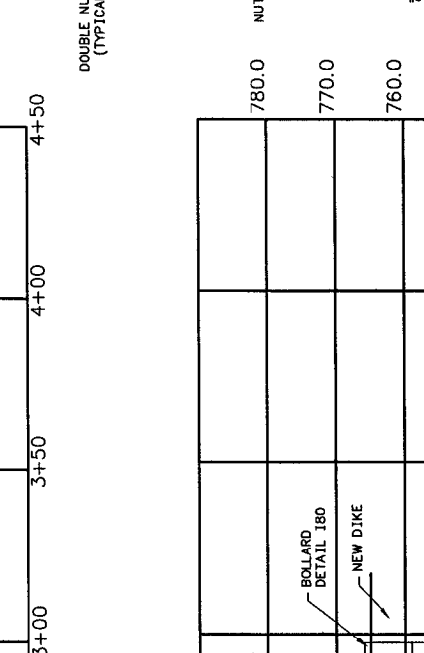
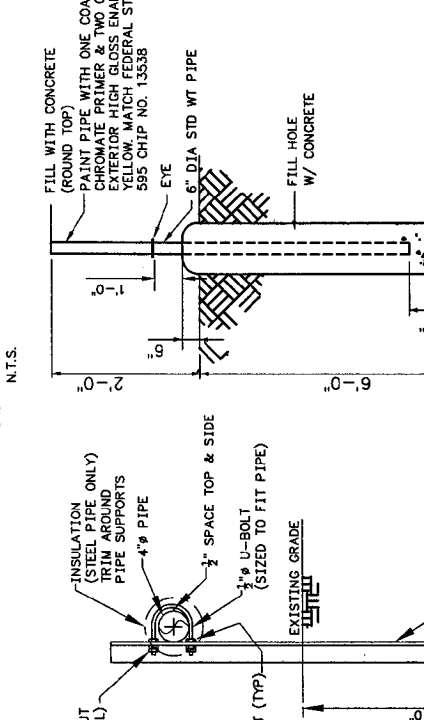
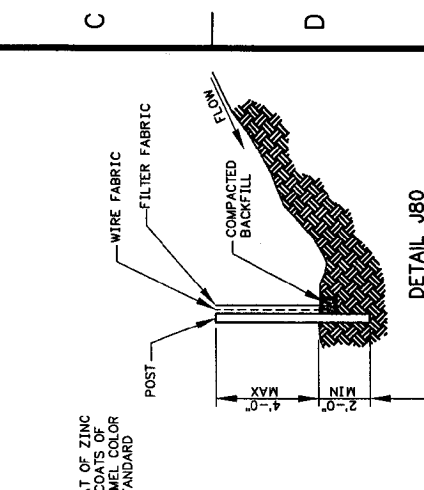
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DO NOT ALTER MANUALLY



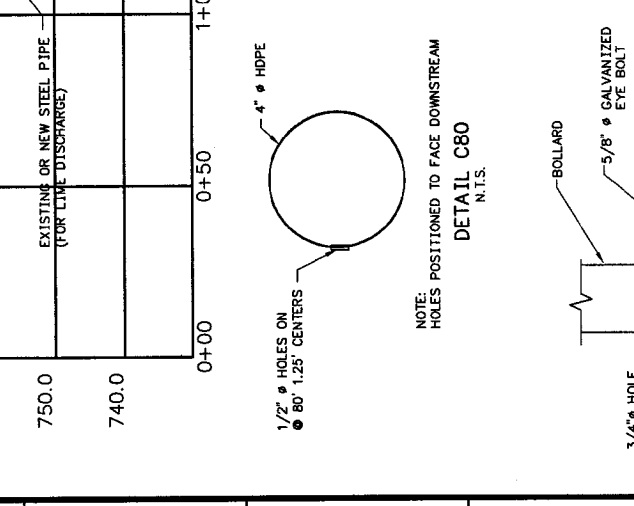
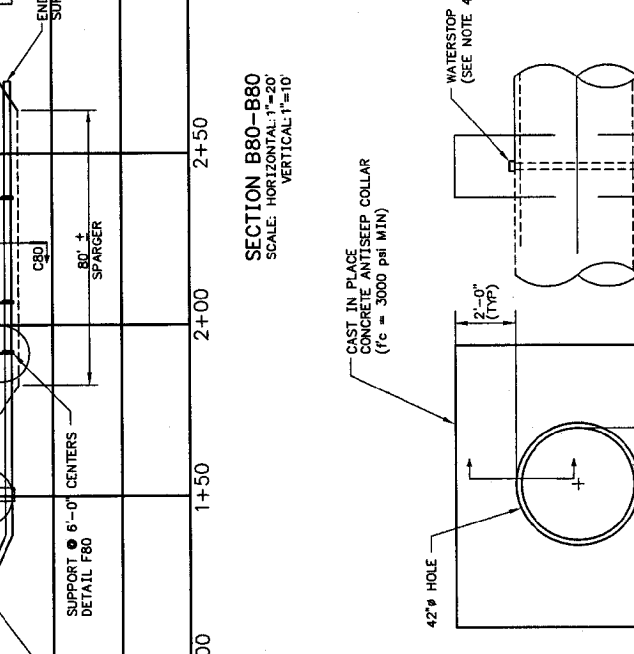
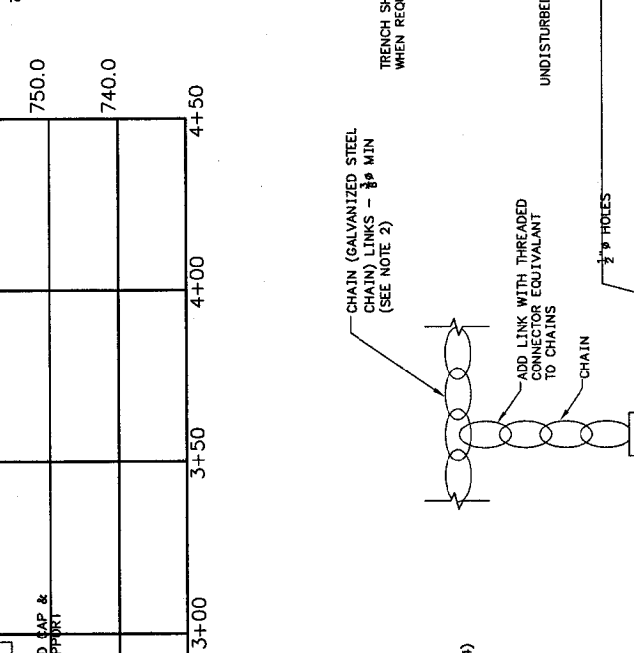
NOTES:

- FOR ADDITIONAL NOTES SEE 10W425-79.
- CHAIN SHALL BE HIGH STRENGTH GRADE 80 ALLOY STEEL CHAIN TRADE SIZE 9/32" - 28# 3500 LB WLL, MCMASTER-CARR, PART #3457751.
- FOR WEIR REPLACEMENT NOTES, SEE 10W425-77.
- WATER STOP SHALL BE AKWASTOP GASKET WATERSTOP AS MANUFACTURED BY CETCO. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- L SECTION SHALL BE GALVANIZED FINISH. TOUCH UP AREAS WHERE GALVANIZED FINISH IS REMOVED DURING CONSTRUCTION WITH ZINC RICH PAINT.



SECTION A80-A80
SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=10'

SECTION B80-B80
SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=10'



DETAIL G80
N.T.S.

DETAIL H80
N.T.S.

DETAIL I80
N.T.S.

DETAIL J80
N.T.S.

DETAIL K80
N.T.S.

| | | | | | |
|-----|------|----|---------|----------|----------|
| NO. | DATE | BY | CHKD BY | APP'D BY | REVISION |
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| 12 | | | | | |

YARD

SCALE: NONE

EXCEPT AS NOTED

DREDGE CELL WEIR REPLACEMENT CROSS SECTION & DETAILS

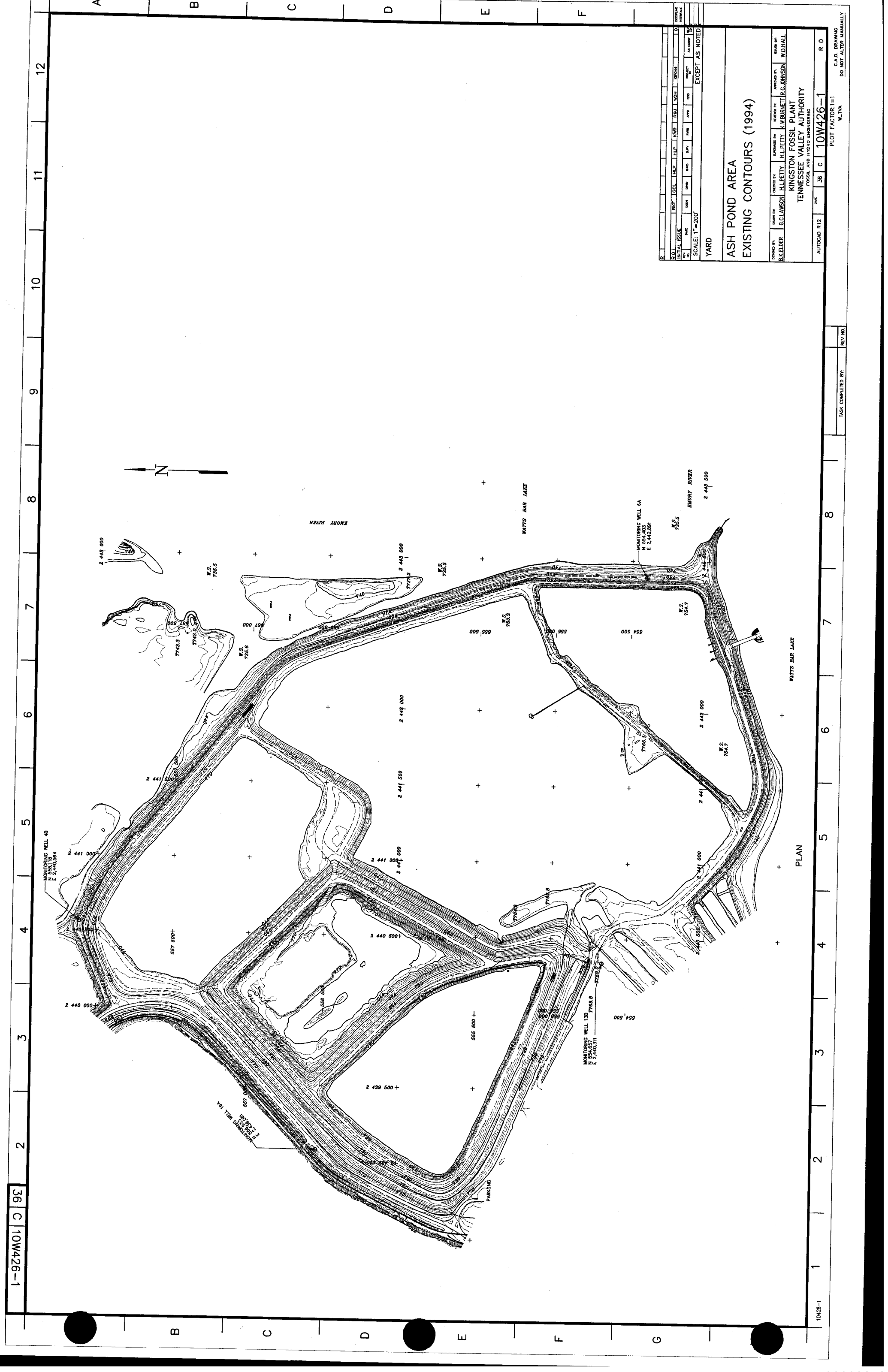
DESIGNED BY: J.L. PETTY
CHECKED BY: J.E. JOHNSON
SCALE: NONE

APPROVED BY: J.L. JOHNSON
DATE: 10/15/2010

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

DATE: 10/15/2010
PLOT FACTOR: 20
W.TVA
DO NOT ALTER MANUALLY

AUTOCAD R14
REV. NO.
TASK COMPLETED BY:
REV. NO.



1-92W01 C 36 C 10W426-1

10426-1

| NO. | DATE | BY | CHKD BY | APP'D BY | REVISION |
|-----|------|----|---------|----------|------------------------|
| 1 | | | | | ISSUE FOR CONSTRUCTION |
| 2 | | | | | ISSUE FOR PERMITS |
| 3 | | | | | ISSUE FOR RECORD |

SCALE: 1"=200'

YARD

**ASH POND AREA
EXISTING CONTOURS (1994)**

DESIGNED BY: G. CLANSON
CHECKED BY: H. L. PERRY
DRAWN BY: K. BURNETT
APPROVED BY: R. G. JOHNSON
SCALE: 1"=200'

DATE: 3/8/94
PROJECT: 10W426-1
SHEET: 36 C

PROJECT: KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

REVISION BY: W. D. HALL

AUTOCAD: R12
PLOT FACTOR: 1=1
W. VA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

| TASK COMPLETED BY: | REV. NO. |
|--------------------|----------|
| | |

PLAN

10426-1
36 C 10W426-1
R 0

ADVANCE AUTHORIZATION FORM

| | | |
|-------|-----------------------------|---|
| AA-01 | Parent DCN: KIF - 05 - 1093 | FTS: |
| | Parent PIC: KIF - 05 - 1093 | Responsible Design Engineer/ORG/Phone: Mike Hughes /(423)751-2783 |

Requested Change or Problem:

1. Relocate weirs closer to existing divider dike so that there are not pipe joints in the 36 in dia RCP between the divider dike and the concrete spillway. The other alternative is to place additional concrete on the pipe to provide adequate ballast.

Suggested Solution (not required):

See attached sketches (Attachment 1 and 2) to this AA.

Approved Change

| | | | | | |
|-----------------|-----------|------|-------|-----------|------|
| Resp. Engineer: | Signature | Date | Supv. | Signature | Date |
|-----------------|-----------|------|-------|-----------|------|

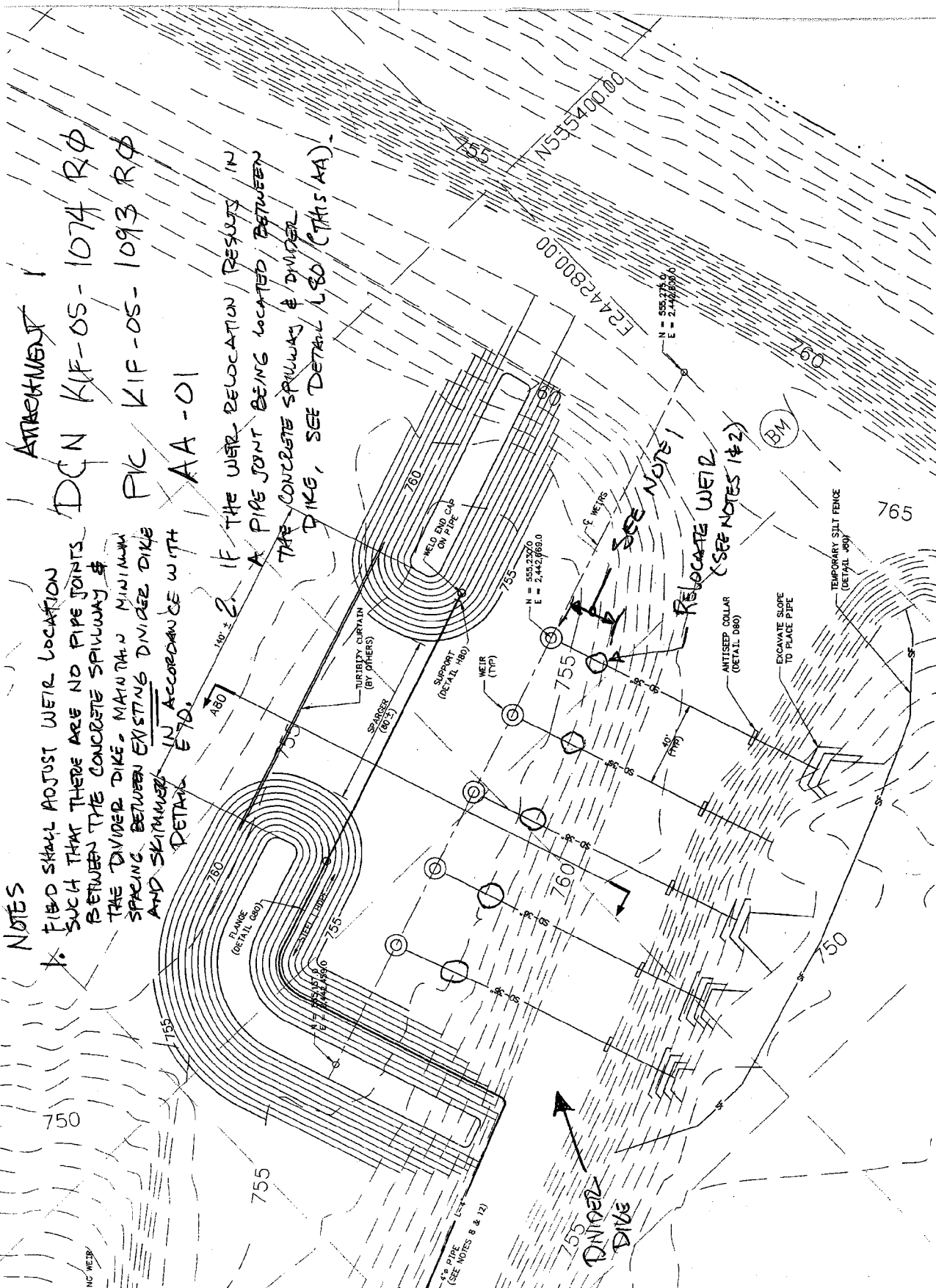
NOTES

* FIELD SHALL ADJUST WEIR LOCATION SUCH THAT THERE ARE NO PIPE JOINTS BETWEEN THE CONCRETE SPILLWAY & THE DIVIDER DIKE. MAINTAIN MINIMUM SPACING BETWEEN EXISTING DIVIDER DIKE AND SKIMMER IN ACCORDANCE WITH DETAIL E70.

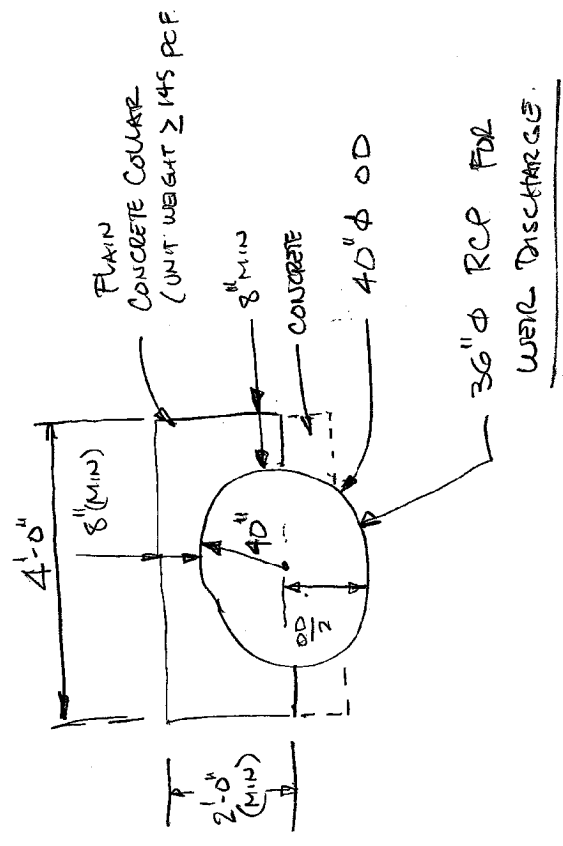
ATTACHMENT 1

DCN KIF-05-1074 RΦ
 PK KIF-05-1093 RΦ
 AA-01

IF THE WEIR RELOCATION RESULTS IN A PIPE JOINT BEING LOCATED BETWEEN THE CONCRETE SPILLWAY & DIVIDER DIKE, SEE DETAIL L80 (THIS AA).



ATTACHMENT 2
 DCN KIF-05-1074 RØ
 PIC KIF-05-1093 RØ
 AA-01



DETAIL 1 & D
 (NEW)
 (10W425-80)

TVA Kingston Fossil - KIF

Initiation Date: 7/27/05

Page 1 of 1

ADVANCE AUTHORIZATION FORM

AA-02

Parent DCN: KIF - 05 - 1074

FTS:

Parent PIC: KIF - 05 - 1093

Responsible Design Engineer/ORG/Phone: Mike Hughes / (423)751-2783


Requested Change or Problem:

1. Provide riprap surfacing to the outer face of the new dike (constructed for the new weir installation) for slope protection, as shown on the attached sketch.

Suggested Solution (not required):

1. See attached sketches to this AA.

Approved Change

| | | | | | | |
|-----------------|--|---------|------|-------|-----------|------|
| Resp. Engineer: |  Signature | 7/27/05 | Date | Supv. | Signature | Date |
|-----------------|--|---------|------|-------|-----------|------|

FORM G – ADVANCE AUTHORIZED TRACKING SHEET

Parent DCN Number KIF - 05 - 1074

PIC Number KIF - 05 - 1093 (Enter one number per sheet)

| | | | | |
|------------------|-------|-----------|-----------|-------|
| AA-01 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-02 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-03 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-04 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-05 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-06 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-07 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-08 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-09 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-10 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-11 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-12 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-13 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |
| AA-14 Issue Date | _____ | Initiator | _____ | _____ |
| | | | Signature | Date |

NOTE: If additional AAs are needed, additional tracking sheets may be added with the AA level numbers above increased accordingly. Any unused AA lines should be lined through with a diagonal line and marked "N/A."

Last AA issued before requesting final approval _____

Final approval requested _____

| | | | |
|------|-----------|-----------|-------|
| Date | Initiator | _____ | _____ |
| | | Signature | Date |

FORM G – ADVANCE AUTHORIZED TRACKING SHEET

AA- 02 PIC# KIF - 05 - 1093 Page _____ of _____

Block 6 - Requested Change

Provide riprap surfacing to the outer face of the new dike (constructed for the new weir installation) for slope protection, as shown on the attached sketch.

Block 11 - Approved Change

See attached sketches to this AA.

Supv/Prin Egnr: _____ Signature _____ Date _____ RE: _____ Signature _____ Date _____

PIC KIF - 1093

7

6

5

4

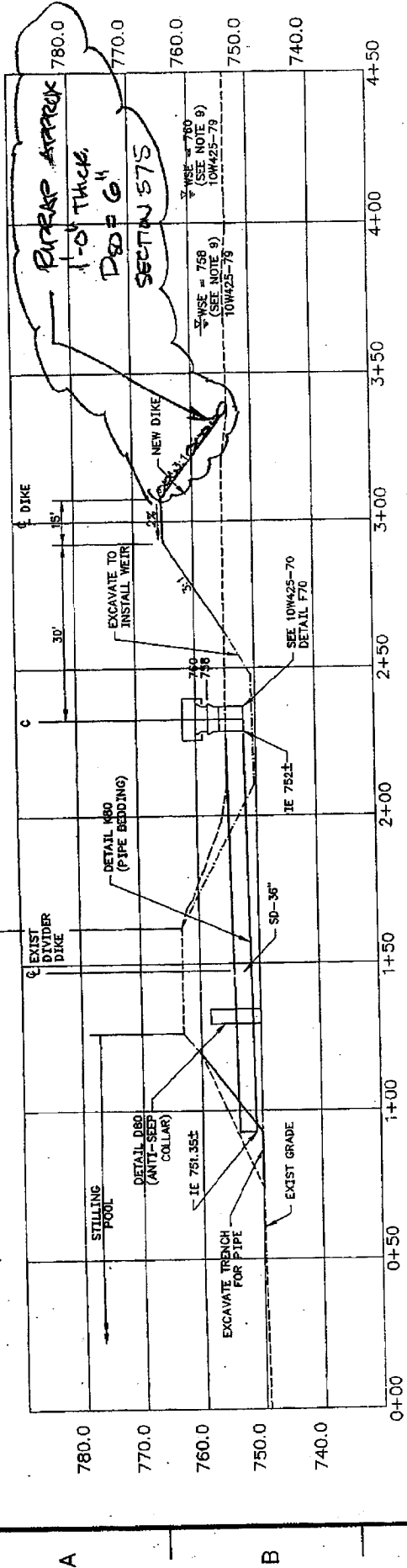
3

2

1

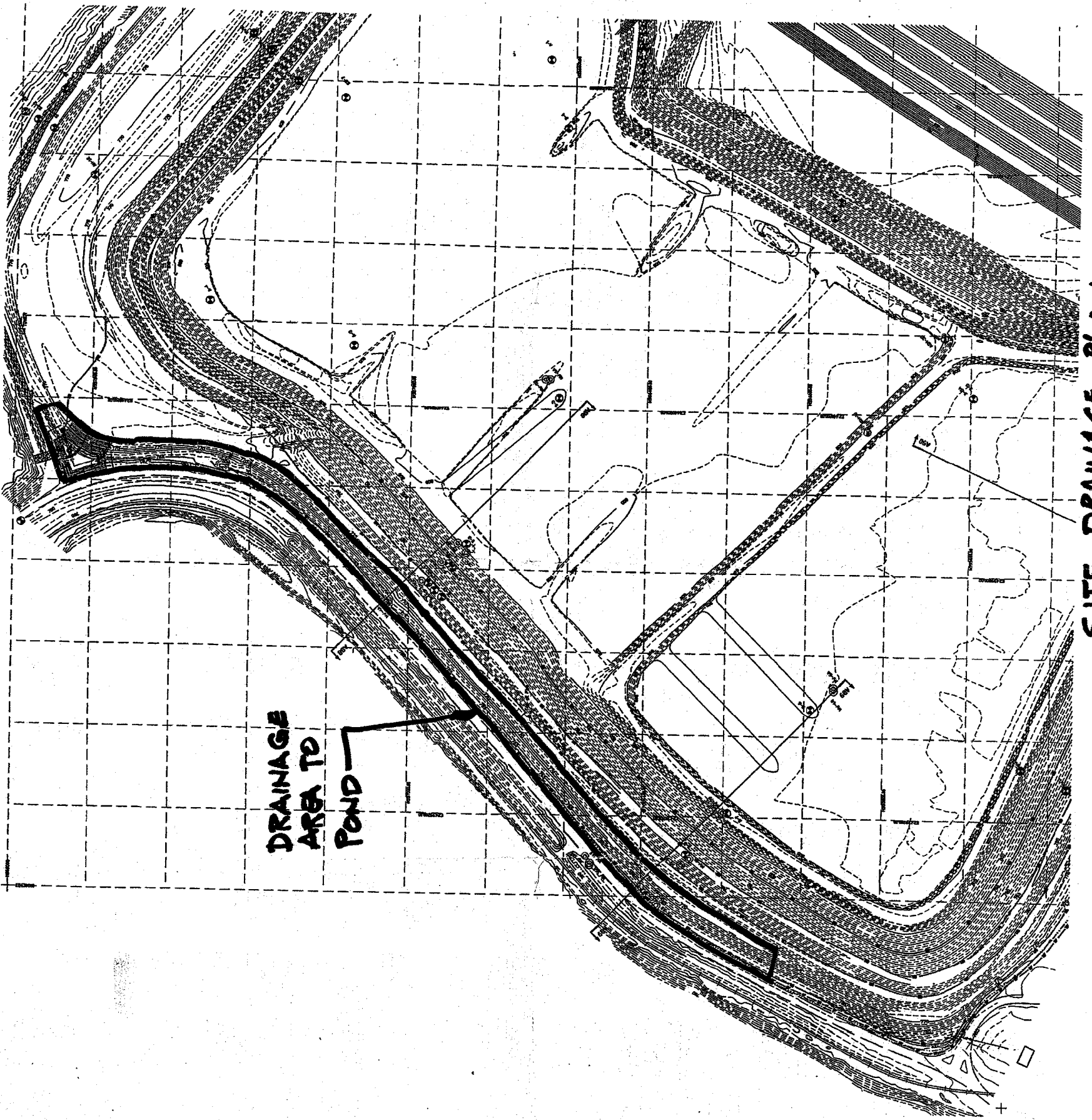
DRAWING CHANGE AUTHORIZATION

ASH POND



SECTION A80-A80
SCALE: HORIZONTAL: 1"=20'
VERTICAL: 1"=10'

DRAWING # 10W425-80
 DCN: KIF-05-1074
 PIC: KIF-05-1093
 AA# 02



1" = 200'

SITE DRAINAGE PLAN

**DRAINAGE
AREA TO
POND**

04/26/2005 05:43:36 PM, p0085704