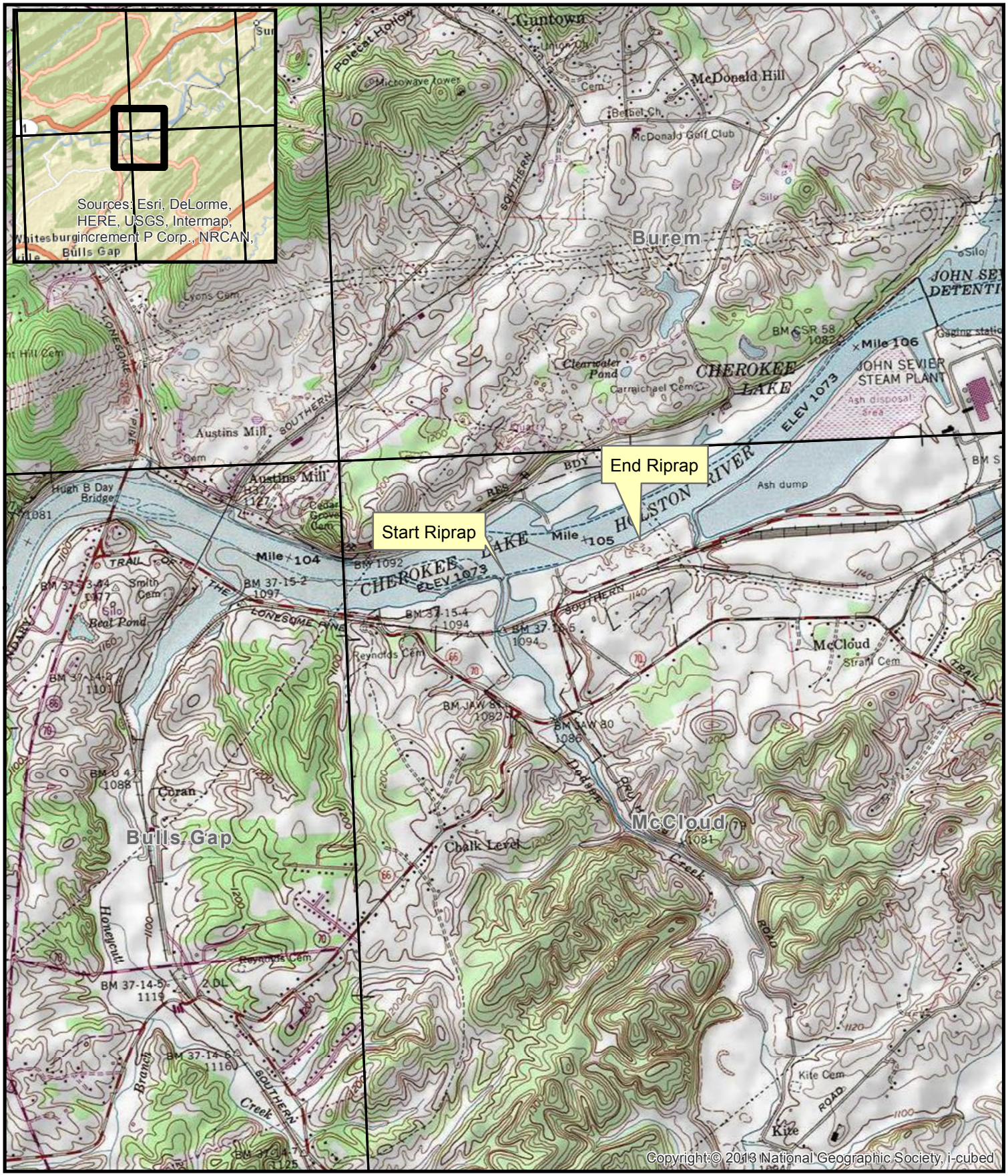
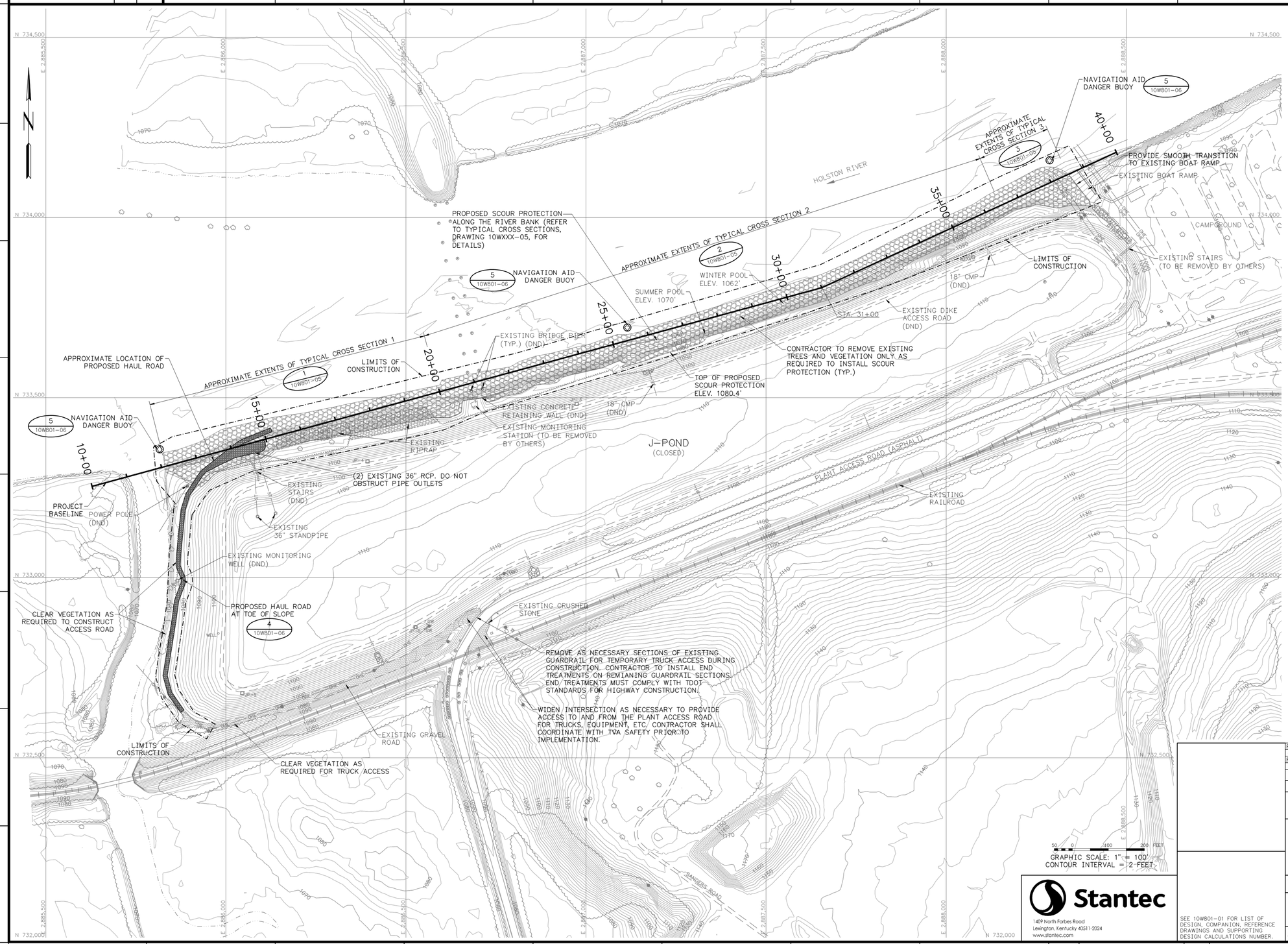


File No. LRN-0-4781800
Holston River Mile 104.8-105.2L
Hawkins County, TN Scale 1:24,000
Exhibit A

N



SURVEY CONTROL NOTE:

A GLOBAL POSITIONING SYSTEM (GPS) BASE STATION HAS BEEN ESTABLISHED AND TRANSFORMATION PARAMETERS DETERMINED BY TVA USING SELECTED SURVEY CONTROL MONUMENTS. CONTACT WITH TVA SURVEYING DEPARTMENT (423)751-8416 OR (423)751-2571 SHALL BE MADE BEFORE ANY SURVEY OR CONSTRUCTION WORK IS COMMENCED. BASE STATION FREQUENCIES AND TRANSFORMATION PARAMETERS WILL BE PROVIDED TO THE CONTRACTOR FOR USE IN CONSTRUCTION ACTIVITIES AT THE SITE. PREVIOUSLY USED OR ESTABLISHED CONTROL POINTS AND MONUMENTS SHALL NOT BE USED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL BY TVA SURVEYING DEPARTMENT.

File No. LRN-0-4781800
Exhibit B

TABLE OF BASELINE COORDINATES

STATION	NORTHING	EASTING
10+00.0	733,253.77	2,885,628.43
31+00.0	733,805.09	2,887,654.76
40+00.0	734,181.12	2,888,472.45

LEGEND

- ST — STORM PIPE
- OHE — OVERHEAD ELECTRIC LINE
- X — FENCE LINE
- EDGE OF EXISTING ROAD
- DITCH LINE/EDGE OF WATER
- RAILROAD TRACKS
- TREELINE
- GUARDRAIL
- EXISTING GRAVEL ROAD
- EXISTING RIPRAP
- LIGHT POLE
- POWER POLE
- GW — GUY WIRE
- SIGN
- EXISTING PIEZOMETER
- EXISTING MONITORING WELL
- DND — DO NOT DISTURB
- PROJECT BASELINE
- CONSTRUCTION LIMITS
- PROPOSED SCOUR PROTECTION
- PROPOSED HAUL ROAD
- NAVIGATION AID/DANGER BUOY

ISSUED FOR CONSTRUCTION

PLOT DATE: 08/14/2015 USER: ELLISON, DOC
U:\T2565SSA\ENVIRONMENTAL\DRAWING\SHEET_FILES\SFT\REVGVLEVEL_FTC\55024C-201-PLN-10W801.DWG

REV NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD
R –	–	–	–	–	–	–	–	–	–	–	–
R 0	08/14/15	PSS	BFS	MCV	DWF	SEB	MST	JCK	204021	–	–
ISSUED FOR CONSTRUCTION											

DISCIPLINE INTERFACE

SCALE: 1" = 100' EXCEPT AS NOTED

YARD
J-POND

SHORELINE PROTECTION PROJECT
SITE LAYOUT PLAN

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
P.S. SRIDHAR	B.F. SAMS	M.C. VAUGHAN	D.W. FULLER	S.E. BENNETT	M.S. TURNBOW	J.C. KAMMEYER

JOHN SEVIER FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R 2000 | DATE 08/14/15 | 41 | C | 10W801-03 | R 0

Stantec
1409 North Forbes Road
Lexington, Kentucky 40511-2024
www.stantec.com

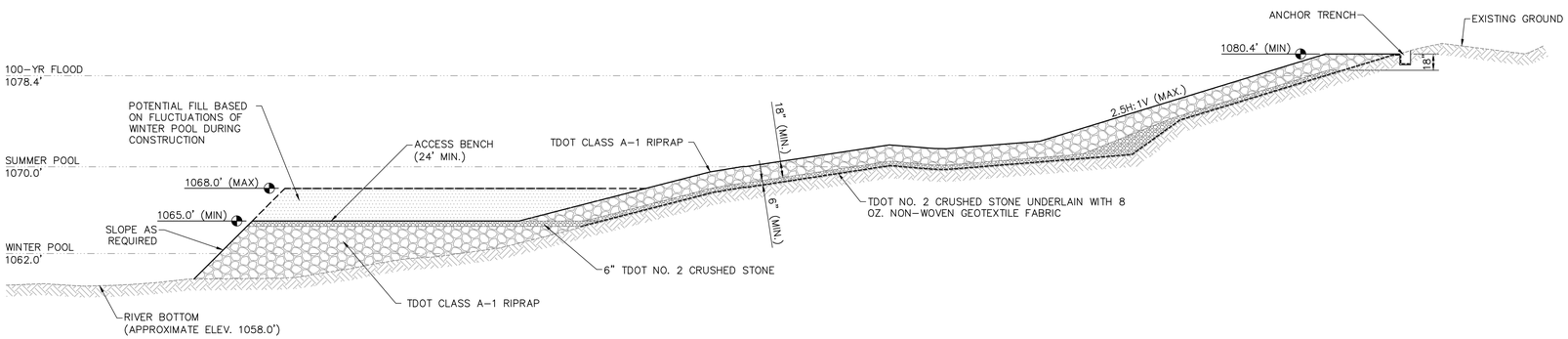
SEE 10W801-01 FOR LIST OF DESIGN, COMPANION, REFERENCE DRAWINGS AND SUPPORTING DESIGN CALCULATIONS NUMBER.

STANTEC	0
TASK COMPLETED BY:	REV NO.

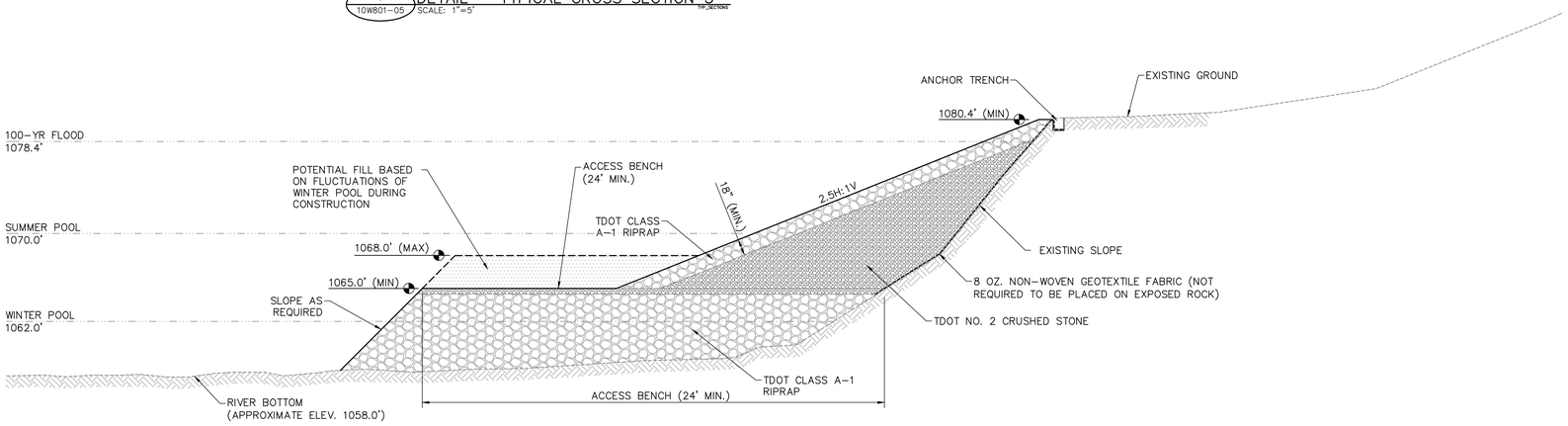
PLOT FACTOR:XX
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

File No. LRN-0-4781800
Exhibit C

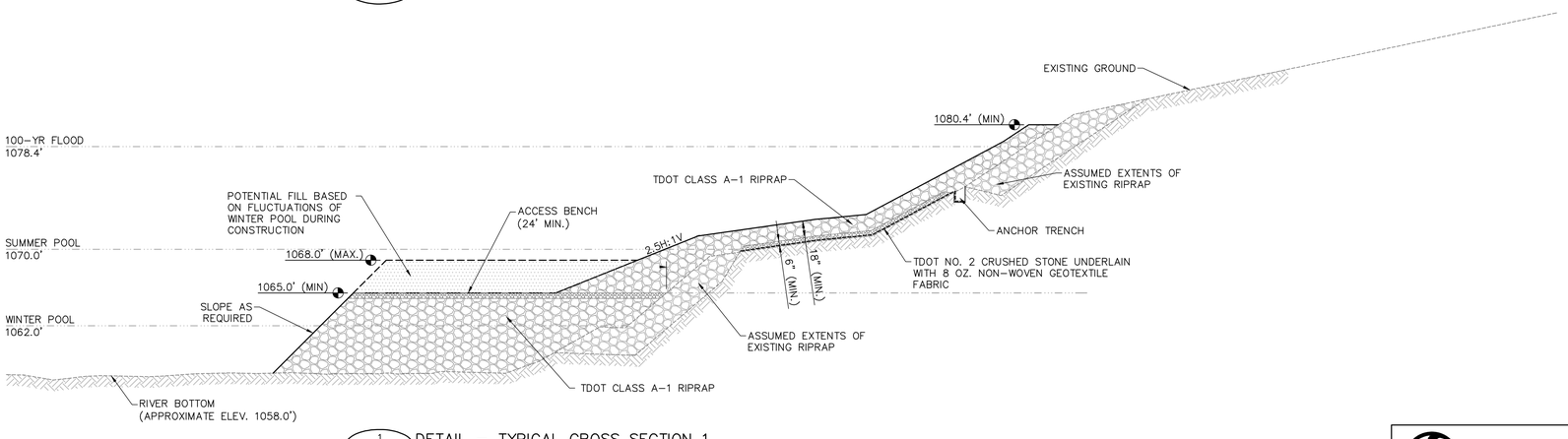


3 / 10W801-05 DETAIL – TYPICAL CROSS SECTION 3
SCALE: 1"=5'
TYP_SECTIONS



2 / 10W801-05 DETAIL – TYPICAL CROSS SECTION 2
SCALE: 1"=5'
TYP_SECTIONS

NOTE:
CONTRACTOR SHALL MAINTAIN CRUSHED STONE SURFACE OF THE ACCESS BENCH DURING CONSTRUCTION TO PROVIDE SAFE ACCESS FOR TRUCKS, EQUIPMENT, WORKERS, AND PROJECT PERSONNEL. IF A FLOOD EVENT WASHES AWAY SURFACE STONE, IT SHALL BE REPLACED BY THE CONTRACTOR AT ITS OWN EXPENSE.



1 / 10W801-05 DETAIL – TYPICAL CROSS SECTION 1
SCALE: 1"=5'
TYP_SECTIONS

ISSUED FOR REVIEW
NOT FOR CONSTRUCTION

PLOT DATE: 08/18/2015 USER: GRIVES, EMILY
\\US1242-F01\SHARED_PROJECTS\173455524\ENVIRONMENTAL\DESIGN\WORKING\GRIVES\PERMIT\PERMIT-TXS-1080.DWG

REV. NO.	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD
R –	–	–	–	–	–	–	–	–	–	–	–
R 0	08/14/15	PSS	BFS	MCV	DWF	SEB	MST	JCK	204021	–	–

ISSUED FOR CONSTRUCTION.

DISCIPLINE INTERFACE: 1 2 3 4 5

SCALE: 1" = 5' EXCEPT AS NOTED

YARD
J-POND

SHORELINE PROTECTION PROJECT
TYPICAL CROSS SECTIONS

DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
P.S. SRIDHAR	B.F. SAMS	M.C. VAUGHAN	D.W. FULLER	S.E. BENNETT	M.S. TURNBOW	J.C. KAMMEYER

JOHN SEVIER FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R 2000 | DATE 08/14/15 | 41 | C | 10W801-05 | R 0

Stantec
1409 North Forbes Road
Lexington, Kentucky 40511-2024
www.stantec.com

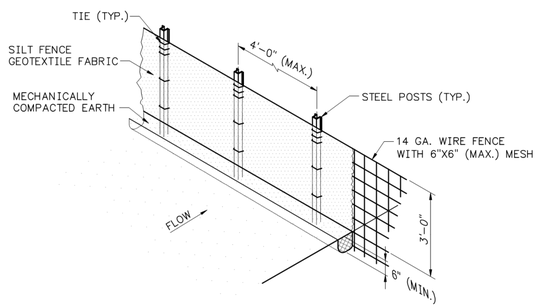
SEE 10W801-01 FOR LIST OF DESIGN, COMPANION, REFERENCE DRAWINGS AND SUPPORTING DESIGN CALCULATIONS NUMBER.

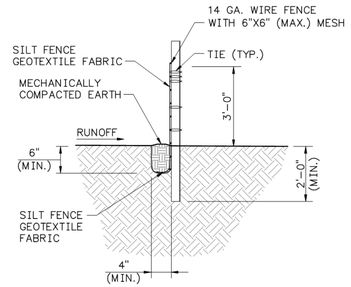
STANTEC | 0
TASK COMPLETED BY: | REV NO.

PLOT FACTOR:XX
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

File No. LRN-0-4781800
Exhibit D

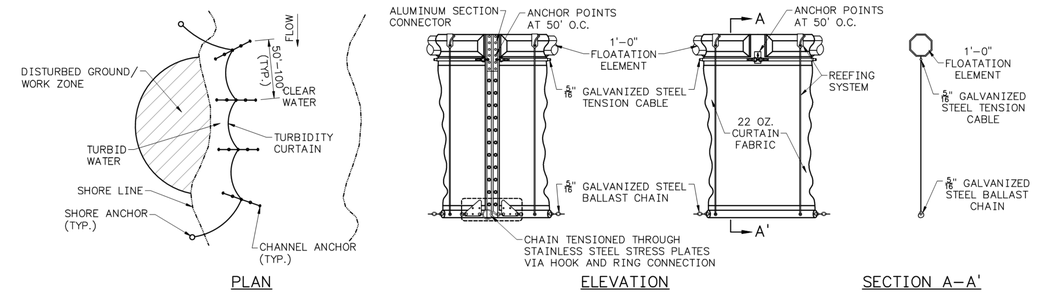




NOTES:

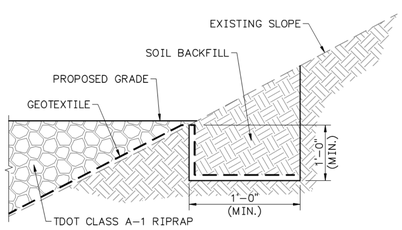
1. ATTACH FABRIC TO UPSTREAM SIDE OF POSTS USING WIRE TIES OR PLASTIC ZIP TIES. TIES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 50 LBS.
2. PROVIDE AT LEAST FIVE TIES PER POST. THREE TIES SHALL BE INSTALLED IN THE UPPER 8" TO PROVIDE TOP STRENGTH.
3. INSTALL TIES ON THE DIAGONAL, AS OPPOSED TO THE HORIZONTAL, TO GRAB MORE MESH STRANDS.

1 / 10W801-06 DETAIL – SILT FENCE
NOT TO SCALE



NOTE: REFER TO TDOT STANDARD DRAWING EC-STR-38 FOR ADDITIONAL DETAILS.

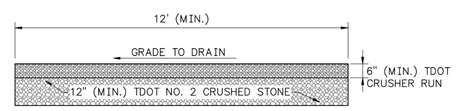
2 / 10W801-06 DETAIL – TURBIDITY CURTAIN
NOT TO SCALE



NOTES:

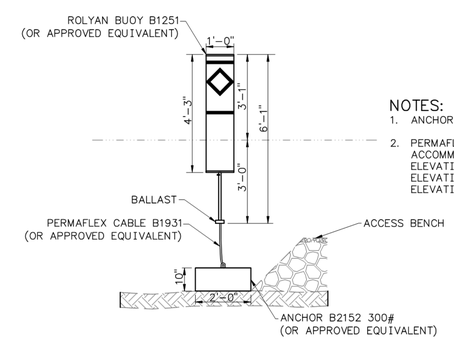
1. SOIL BACKFILL IN ANCHOR TRENCHES SHALL HAVE NO ROCK EXCEEDING 1 INCH MAXIMUM DIMENSION.
2. SOIL BACKFILL SHALL BE COMPACTED USING MANUALLY OPERATED TAMPERS.

3 / 10W801-06 DETAIL – ANCHOR TRENCH
SCALE: 1"=1'-0"



NOTE:
EXCAVATION AT THE TOE OF THE J-POND SLOPE IS NOT PERMITTED. CONTRACTOR SHALL PLACE CRUSHED STONE DIRECTLY ON EXISTING GROUND.

4 / 10W801-06 DETAIL – HAUL ROAD
SCALE: 1/2"=1'-0"



NOTES:

1. ANCHOR SHALL BE PLACED AT TOE OF THE ACCESS BENCH.
2. PERMAFLEX CABLE SHALL BE OF THE PROPER LENGTH TO ACCOMMODATE FLUCTUATIONS IN THE WATER SURFACE ELEVATION. THE HIGHEST DESIGN WATER SURFACE ELEVATION IS 1078.4, WHICH IS THE 100-YEAR FLOOD ELEVATION.

6 / 10W801-06 DETAIL – NAVIGATION AID/DANGER BUOY
SCALE: 1/2"=1'-0"

ISSUED FOR CONSTRUCTION

PLOT DATE: 08/14/2015 USER: ELLISON, DOC
U:\1756550\24\ENVIRONMENTAL\DRAWING\SHEET_FILES\SEP17\REV0\REV0_IFC\550240-501-01L.DWG

SECTION OR DETAIL NO.
DRAWING WHERE SHOWN
REFERENCE KEY

Stantec
1409 North Forbes Road
Lexington, Kentucky 40511-2024
www.stantec.com

SEE 10W801-01 FOR LIST OF DESIGN, COMPANION, REFERENCE DRAWINGS AND SUPPORTING DESIGN CALCULATIONS NUMBER.

REV NO	DATE	DSGN	DRWN	CHKD	SUPV	RVWD	APPD	ISSD	PROJECT ID	AS CONST	REV CD
R –	–	–	–	–	–	–	–	–	–	–	–
R 0	08/14/15	PSS	BFS	MCV	DWF	SEB	MST	JCK	204021	–	–

ISSUED FOR CONSTRUCTION

DISCIPLINE INTERFACE

SCALE: AS SHOWN — EXCEPT AS NOTED

YARD
J-POND

SHORELINE PROTECTION PROJECT
DETAILS

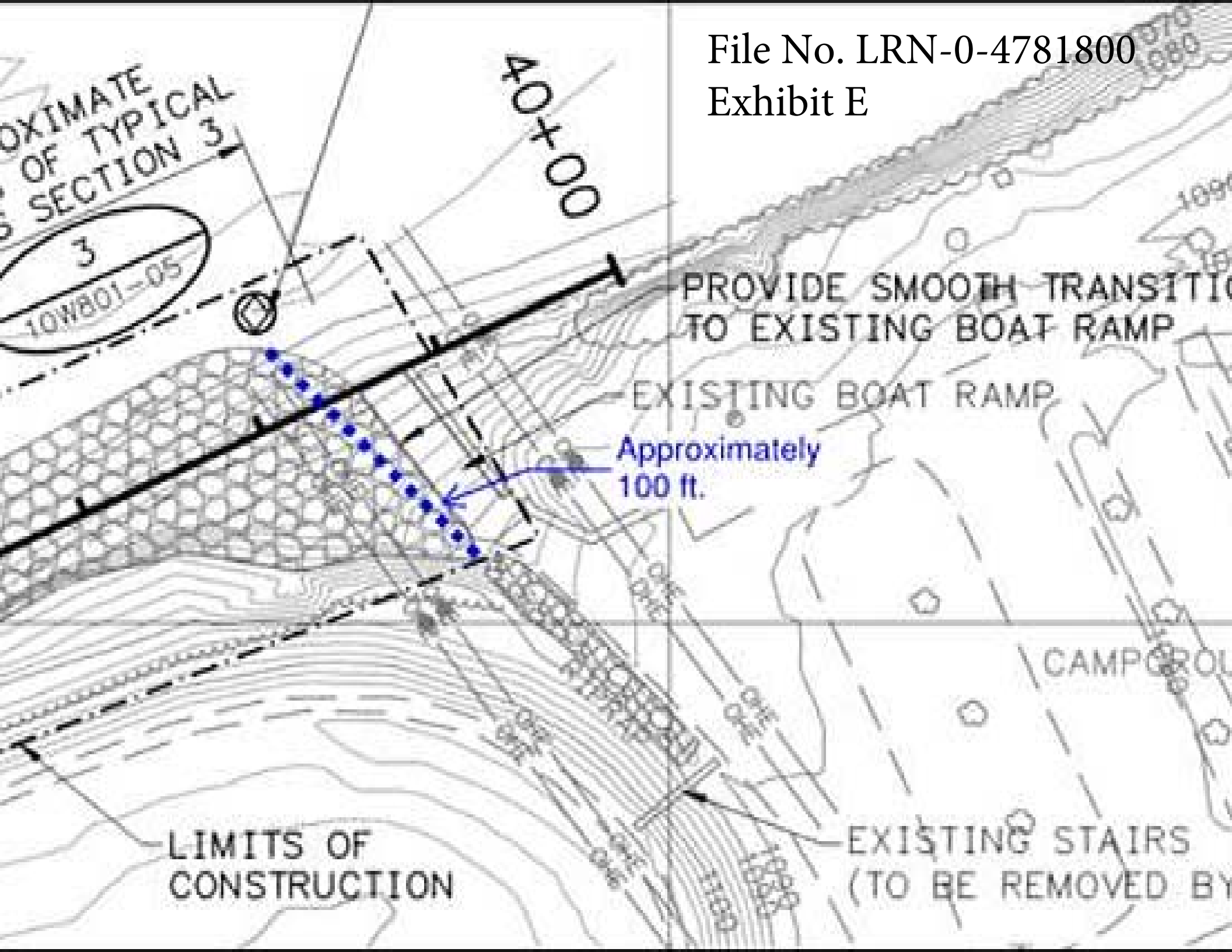
DESIGNED BY:	DRAWN BY:	CHECKED BY:	SUPERVISED BY:	REVIEWED BY:	APPROVED BY:	ISSUED BY:
P.S. SRIDHAR	B.F. SAMS	M.C. VAUGHAN	D.W. FULLER	S.E. BENNETT	M.S. TURNBOW	J.C. KAMMEYER

JOHN SEVIER FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY
FOSSIL AND HYDRO ENGINEERING

AUTOCAD R 2000 | DATE 08/14/15 | 41 | C | 10W801-06 | R 0

STANTEC | 0
TASK COMPLETED BY: | REV NO.

PLOT FACTOR:XX
W_TVA

C.A.D. DRAWING
DO NOT ALTER MANUALLY

File No. LRN-0-4781800
Exhibit E