85 C 10N700

ASSUMED NORTH

BASE LINE N 01°00'00" W

ACCESS RAILROAD

END PROJECT 85-101
BEGIN MAIN PLANT TRACK

6" STRAINER
INV. EL 726.0

(SEE DWG. 85 HP 5 10N200 BACK)

ERCW MAINT. RD.
SEE DWG. 10W247

P.S. No. 8 TO. STA. 10+95.21 MAIN PLANT TRACK =
STA. 0+00 REACTOR BLDG. TRACK =
STA. 68+38.85 ACCESS RAILROAD.

STA. 3+38.81 REACTOR BLDG. TRACK
STA. 16+34.34 PERIMETER ROAD

N 443,656.59
E 2,360,467.89

302°50'50"E

P.C. INV. EL. 725.7

FILL WITH TOP BALLAST
TO EL 727.75±

6" STRAINER
INV. EL. 725.7

RIGHT-HAND DERAIL, MODEL
EB SIZE 6 WITH ENCLOSURE BOX
(SEE DWG. 10H707) LOCATED 9'±
INSIDE FENCE.

36"-6" UD
CL. JT.

6" TEE
INV. EL. 725.0

ADDITIONAL
DIESEL
GENERATOR
BUILDING

DIESEL
GENERATOR
BUILDING
UNITS 1-4

STORAGE &
TEMPORARY
OFFICE
BLDG.

℄ UNIT 1 REACTOR BUILDING

℄ UNIT 2 REACTOR BUILDING

STA. 7+13.34 REACTOR BLDG. TRK. & RD.
STA. 1+52.00 PUMPING STA. ROAD

FIRE EQUIP. HSE.

AUX. BLDG. ADD. UNIT

CNDS. DMNRLZR WASTE EVAP. BUILDING

ROCKER BEAM
SEE DWG. 411318-3

LAYUP WATER TANK
TOP OF CONC. EL 726.0 (IN397-2)
FROM DISCH. CWFL STR.

℄ PRIMARY WATER TANK

℄ REFUELING WATER TANK

N 443,669.09
E 359,490.00

AUX. BLDG. ADD. UNIT

TOP OF CONC.
EL 726.0

REACTOR BUILDINGS

S 80°00'00" W

360.00'

N 80°00'00" E BASE LINE
℄ REACTORS

GASOLINE PUMPS

FIRE EQUIP. HSE.

AUXILIARY BUILDING

CONTROL BUILDING

FIRE EQUIP. HSE.
CO_2 STORAGE VAULT

SERVICE BUILDING

OFFICE BUILDING

CENTRAL ALM STA

EMPLOYEE PARKING

2657

WATERHOUSE

TURBINE BUILDING COL. LINE ⑦

TURBINE BUILDING

ROCKER BEAM
SEE DWG. 411243-1

6" STRAINER
INV. EL. 721.2

DETAIL A (10N702)

CONDENSATE STORAGE TANKS

HYDROGEN TRENCH

380°00'00" W

37.5'

D 95'

CCW PUMPING STATION

302°50'50"E

N 442,873.63
E 2,360,604.92

STA. 3+38.40 TURBINE BLDG. TRK.
STA. 23+15.32 PERIMETER RD.

STA. 1+05.16 TURBINE BLDG. TRACK
STA. 0+94.08 HYPOCHLORITE BLDG. RD.

INV. EL. 721.0

6" STRAINER INV. EL. 725.7
SEC. BACKUP POWER BLDG.

PULL OFF TOWER

SUB SURFACE SAND FILTER

ACID STORAGE

INSULATING OIL TANKS

12" OPEN JT. CONC. PIPE
SEE 10N237

TRANSFORMER YARD

FIRE EQUIP. HSE.
STA. 11+63.34

DETAIL A1 (10N702)

380°00'00" W

FIRE EQUIP. HSE.

15" CLASS III CONC. PIPE
SEE DWG. 10N237

STA. 4+71.69

205.50'

800 KV SWD.

8" U.D.

E CONDENSER TUBE ACCESS TRACK

CAR STOP
STA. 14+55

FIRE EQUIP. HSE.

6" OPEN JT. CONC. PIPE
SEE DWG. 10N237

P.C. STA. 13+03.91 TURBINE BLDG. TRK. & RD.
P.C. STA. 13+70.91 TRANS. YD. ROAD

STA. 13+58.09 TRANS. YD. TRACK
STA. 1+68.75 ACID STORAGE ROAD

STA. 7+61.84 TURBINE BLDG. TRACK
STA. 7+82.84 PUMPING STA. ROAD

P.T. 6+62.31 TURBINE BLDG. TRACK
P.C. 6+62.31 TURBINE BLDG. ROAD

P.T. 6+62.31 TRANS. YARD TRACK
P.C. 6+62.31 TURBINE BLDG. ROAD

STA. 3+38.40 TRANS. YD. TRACK
STA. 24+85.67 PERIMETER ROAD

710.01'

6" U.D.

GATE

HYDROGEN TRAILER PORT

DETAIL A (10N702)

CAR STOP
STA. 0+00

H.P. INV. EL. 725.00

6" TEE
INV. EL. 721.00

6" STRAINER
INV. EL. 725.70

S 80°00'00" W

STA. 13+50.20

STA. 6+48.78 CONDENSER TUBE TRACK
STA. 33+77.50 PERIMETER ROAD

FUTURE SHUNT REACTOR YARD

℄ TRANSMISSION LINE END TOWERS

6" TEE
INV. EL. 724.50

CAR STOP
STA. 13+43.34

℄ TRANSMISSION LINE END TOWERS

STA. 4+18.90 CONDENSER TUBE TRK.
STA. 31+48.10 PERIMETER ROAD

TEMP. CONST. CHEM. CLEANING HOLDUP PONDS
SEE DWG. 10W250

FIRE EQUIP. HSE.

FUEL OIL TANKS

LUBE OIL TANKS

90° ELBOW
INV. EL. 725.0

N 443,045.03
E 2,360,376.73

H.P. INV. EL. 725.7

COOLING TOWER

6" STRAINER
INV. EL. 725.1

STA. 17+67.18 MAIN PLANT TRK.
STA. 1+05.44 HYPOCHLORITE BLDG. RD.

8" TEE
INV. EL. 725.26

P.S. No. 8 TO. STA. 18+23.96 MAIN PLANT TRACK
STA. 0+00 TRANS. YARD TRACK

H.P. INV. EL. 725.7

HYPOCHLORITE BLDG.

℄ COOLING TOWER RAMP

562.75'

M 20

6" TEE
INV. EL. 725.1

N 442,628.51
E 2,360,596.51

COOLING TOWER

P.S. No. 8 TO. STA. 23+35.00 MAIN PLANT TRACK
STA. 0+00 CONDENSER TUBE TRACK

N 442,468.30
E 2,360,825.64

6" STRAINER
INV. EL. 722.5

N 443,376.35
E 2,360,693.66

FIRE EQUIP. HSE.

20'6"UD
CL. JT.

6" TEE

6"x 18" TEE

STORAGE YARD

EXCESS SOLID WASTE STORAGE AREA

CAR STOP
STA. 28+48

COOLING TOWER DESILTING BASIN

ERCW MAINT. RD.
SEE DWG. 10W247

N 441,759.76
E 2,360,724.33

6" STRAINER
INV. EL. 721.70

FUTURE 161 KV SWITCHYARD

REFERENCE DRAWING
10BM700 : BILL OF MATERIAL

SCALE: 1" = 100'

DIVISION OF RESERVOIR PROPERTIES

COMPANION DRAWINGS: 10N701, 702, 237, 238, 239
10H703, 704, 707

INSPECTED AND APPROVED FOR ISSUE

DESIGN PROJECT MANAGER

CURVE DATA

1 (REACTOR BLDG. TRK.)	2 (TURBINE BLDG. TRK.)	3 (TRANS. YARD TRK.)
P.I. 4+47.04	P.I. 4+47.04	P.I. 4+47.04
Δ = 82°30'50"	Δ = 82°30'50"	Δ = 82°30'50"
D = 15°00'00"	D = 15°00'00"	D = 15°00'00"
R = 381.97'	R = 381.97'	R = 381.97'
T = 337.04'	T = 337.04'	T = 337.04'
L = 552.31'	L = 552.31'	L = 552.31'
P.C. 1+10.00	P.C. 1+10.00	P.C. 1+10.00
P.T. 6+62.31	P.T. 6+62.31	P.T. 6+62.31

5 (CONDENSER TUBE TRK.)
P.I. 6+47.55
Δ = 82°30'50"
D = 15°00'00"
R = 409.26'
T = 361.11'
L = 591.77'
P.C. 2+86.44
P.T. 8+78.21

FIGURE Q371.29-3
SHEET 1 OF 3

NOTES:
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE TVA SPECIFICATIONS, EXCEPT AS NOTED.
2. SEE DRAWING 10H704 FOR MISCELLANEOUS TRACK DETAILS.
3. ALL UNDERDRAINS TO BE CONCRETE PIPE LAID WITH OPEN JOINTS, PERFORATED CORRUGATED METAL PIPE, OR PERFORATED PLASTIC PIPE, EXCEPT WHERE NOTED.
4. FOR TRACK SECTIONS AND DETAILS SEE DWGS. 10N701 & 702.

REV	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECM	APPR
16	11474	6-4-73	TCH	TCH	HWH	WHH					
15	11397	5-14-73	TCH	TCH	HWH	WHH					
14	11243	4-11-73	TCH	TCH	HWH	WHH					
13	11231	4-5-73	CAR	TCH	HWH	WHH					
12	11028	3-12-73	TCH	TCH	HWH	WHH					
11	10988	2-14-73	TCH	TCH	HWH	WHH					

ADD TEMP. CONST. CHEM. CLEANING HOLDUP PONDS, PUMPS, & PIPING; ADD SECURITY FENCE; ADD 6" U.D. REACTOR BLDG. MAIN TRK.; REVISE OBSERVATION BLDG. TRACK & SECTION B-B; ADD U.D. TURBINE BLDG. TRK.; REVISE TURBINE BLDG. TRACK & SECTION A-A; ADD U.D. TURBINE BLDG. ROAD & SECTION C-C; REVISE TURBINE BLDG. TRACK & SECTION D-D; ADD U.D. TRANS. YARD TRACK & SECTION E-E; ADD U.D. TRANS. YARD ROAD & SECTION F-F; REVISE ACCESS RAILROAD; ADD U.D. ACCESS RAILROAD & SECTION G-G; REVISE ACCESS RAILROAD & SECTION H-H; ADD U.D. ACCESS RAILROAD & SECTION J-J; ADD U.D. ACCESS RAILROAD & SECTION K-K; ADD U.D. CENTRAL ALM STA.

REV	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECM	APPR
10	11028	3-12-73	CAR	CAR	HWH	WHH					
9	10-7	12-14-72	CAR	CAR	HWH	WHH					
8	11465	2-20-73	CAR	CAR	HWH	WHH					

ADD SECT Q-Q PER FCR F-63BR1
ADDED COMPANION DWG, REVISED DETAIL

REV	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECM	APPR
12	2766-2857	11-30-72	BRD	BRD	HWH	WHH					
11	2351	11-22-72	TCH	TCH	HWH	WHH					

REVISED TRANSFORMER YARD FENCE ALIGNMENT, GATEHOUSE
ADDED ADDITIONAL OR SEC. GEN. BLDG.
ADDED SECURITY BACKUP POWER BLDG.

REV	ECN NO.	DATE	DSGN	DRWN	CHKD	SUPV	ENGR	INSP	SUBM	RECM	APPR

PRINTS NEED-D 12 BY OF PROJ.	DWG	SIZE F	SIZE H
ME	1		1
CE	2		2
AD	1	1	
CD	2	2	
EG	1	3	
MD	2	4	
SF			
SW			
BL			
PA			

MAIN PLANT

MAIN PLANT TRACKS PLAN
SHEET 1

TERA APERTURE CARD

WATTS BAR NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED	RECOMMENDED	APPROVED
J. M. Kleinsasser	H. D. Thompson	W. W. Goodpasture

KNOXVILLE 9-6-73 85 C 10N700R12

RECORD DRAWING

8112230396