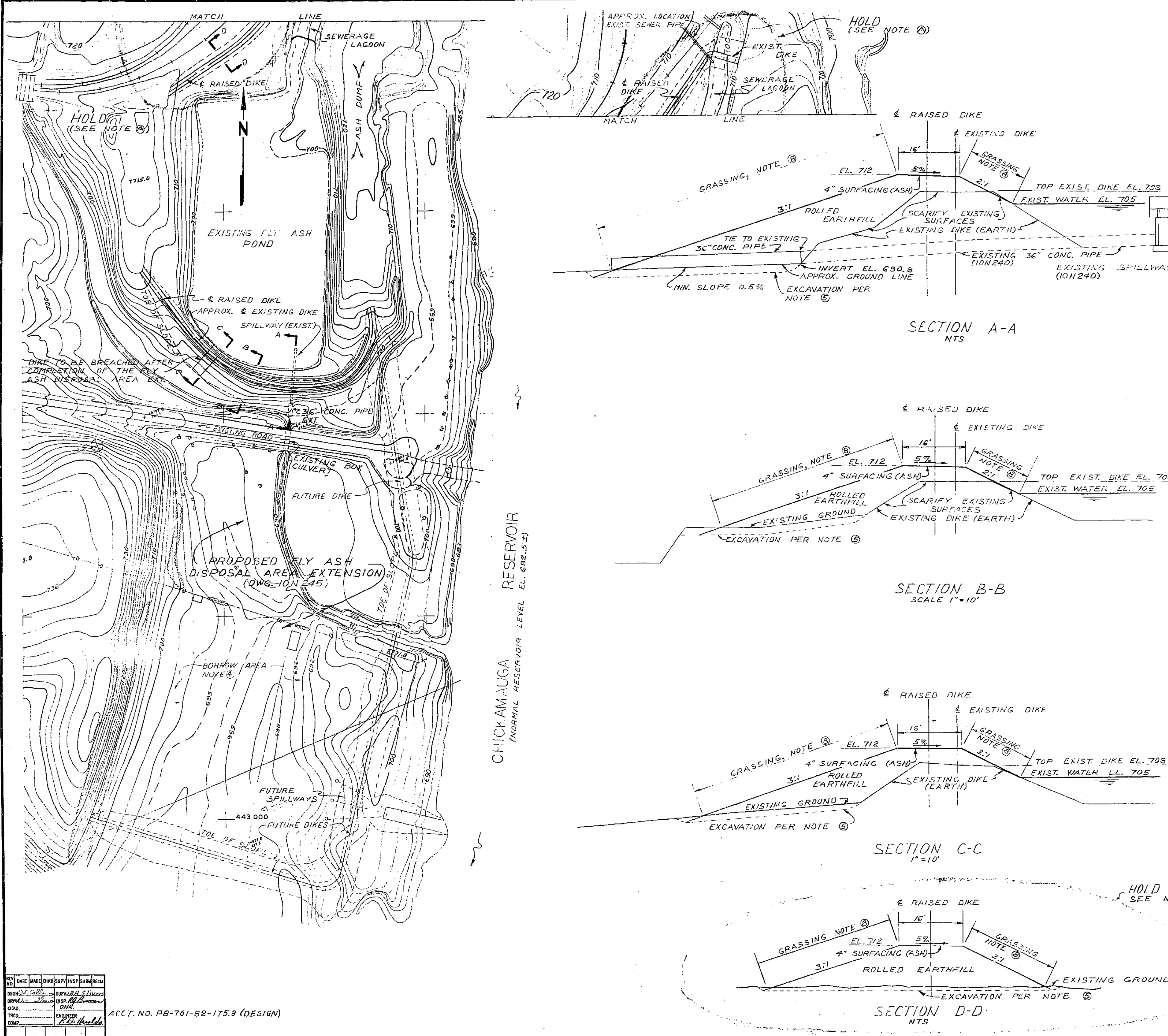

SUMMARY OF QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
101	CLEARING AND GRUBBING	1.3	ACRES
123	EARTH BORROW	11,000	C.Y.
180-182	SEEDING AND MULCHING	4,800	S.Y.
602	CLASS III "O"RING CONC PIPE	48	LIN. FT.
	ASH SURFACING (4")	220	TONS

NOTES:

① STABILITY ANALYSIS SAFETY FACTOR FOR THE EXTERIOR DIKE SLOPE WITH 3:1 SLOPE AND DIKE TOP RAISED TO EL. 712 IS A MINIMUM OF 1.5. SOILS EXPLORATION AND TESTING OF FOUNDATION AND BORROW FOR THE DIKE OF THE PROPOSED EXTENSION OF THE FLY ASH DISPOSAL AREA IS RECORDED IN MEMORANDUM REPORT GENE FARMER TO R. G. DOMER DATED JULY 18, 1973. DIKE RAISING SHOWN ON THIS DWG. WILL USE THE SAME BORROW FROM INSIDE THE PROPOSED AREA. THE STABILITY ANALYSIS SAFETY FACTOR IS THAT CALCULATED FOR THE EXTENSION DIKE WITH MAXIMUM HEIGHT AND POOREST FOUNDATION FOUND IN THE EXPLORATION.

② DIKE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PORTIONS OF GENERAL CONSTRUCTION SPECIFICATION NO. G-9 FOR ROLLED EARTHFILL FOR DAMS AND POWER PLANTS. FILL COMPACTION SHALL BE AT LEAST 95% OF STANDARD MAXIMUM DENSITY AND FILL MOISTURE CONTENT SHALL NOT BE MORE THAN 3% ABOVE OPTIMUM, AS DETERMINED BY THE CENTRAL SOILS LABORATORY.

③ ALL OTHER CONSTRUCTION SHALL BE IN ACCORDANCE WITH HIGHWAY SPECIFICATIONS NO. T-1.

④ EARTHFILL FOR THE DIKE CONSTRUCTION SHALL CONSIST OF MATERIAL EXCAVATED FROM INSIDE THE PROPOSED FLY ASH DISPOSAL AREA EXTENSION AND SOUTH OF THE EXISTING ROAD THAT CROSSES THE EXTENSION AREA. CUT SLOPES FOR BORROW MATERIAL ADJACENT TO THE PROPOSED DIKES OF THE FLY ASH DISPOSAL AREA EXTENSION SHALL NOT BE EXCAVATED STEEPER THAN 3:1 AND TOP OF CUT SHALL BE A MINIMUM OF 20' FROM THE TOE OF ANY SLOPE.

⑤ DIKE FOUNDATION UNDER NEW FILL SHALL HAVE ALL WEAK SURFACE SOILS REMOVED TO A DEPTH THAT WILL SUPPORT HEAVY EARTHMOVING EQUIPMENT WITHOUT RUTTING OR HEAVING. CARE SHALL BE TAKEN TO PREVENT UNDERMINING THE EXISTING DIKE DURING THIS EXCAVATION.

⑥ EXISTING DIKE SURFACE. TO BE COVERED BY NEW FILL IS TO BE STRIPPED OF ALL VEGETATION AND ASH, SCARIFIED TO A MINIMUM DEPTH OF 4", AND COMPACTED SO AS TO FORM A BOND WITH THE NEW FILL.

⑦ SURFACING SHALL CONSIST OF 4" OF COMPACTED BOTTOM ASH PLACED OVER THE ENTIRE WIDTH OF THE TOP OF THE DIKE.

⑧ ALL CUT AND FILL SLOPES AND OTHER DISTURBED AREAS SHALL BE SEEDED WITH TYPE 7 MIXTURE, FERTILIZED, AND MULCHED IN ACCORDANCE WITH SECTIONS 180 AND 182 OF THE T-1 SPECIFICATIONS.

NOTE Ⓐ: DIKE PARALLEL TO RAILROAD (SECTION D-D) NOT TO BE CONSTRUCTED UNLESS DIRECTED BY DIVISION OF ENGINEERING DESIGN.

REFERENCE DWG. 10N240

SCALE 1"=100' EXCEPT AS NOTED

ACCT. NO. P8-761-82-175.9 (DESIGN)

INSPECTED AND APPROVED FOR ISSUE
R. M. Pierce
DESIGN PROJECT MANAGER

MAIN PLANT

FLY ASH DISPOSAL AREA – GENERAL PLAN AND SECTIONS FOR RAISING DIKE

WATTS BAR STEAM PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED	RECOMMENDED	APPROVED
J. M. Nelson	F. D. Stansbury	W. W. Engle

KNOXVILLE 10-2-73 | 14 | C | 10W243 R0

RECORD DRAWING AS CONSTRUCTED