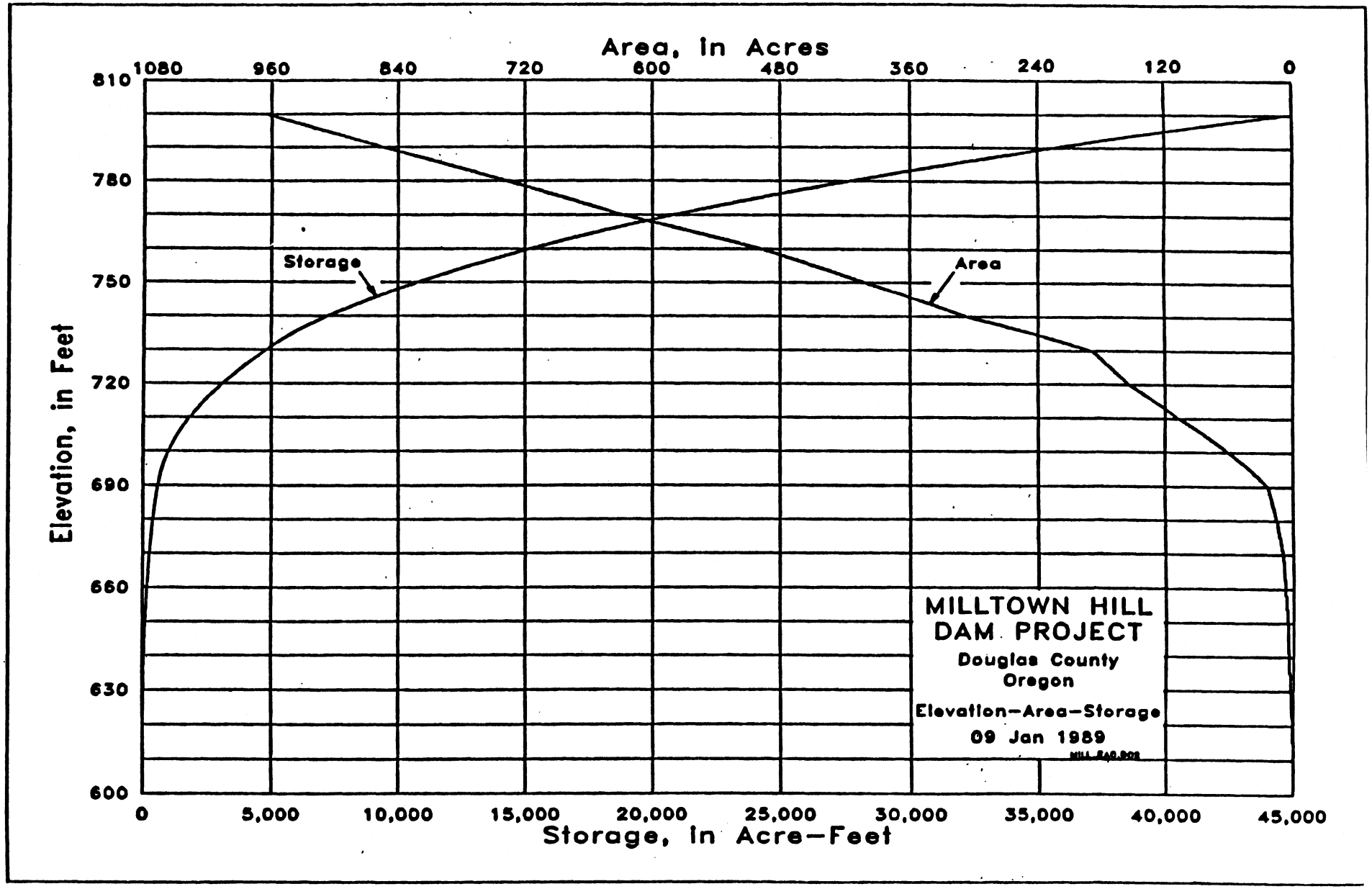
Appendix A

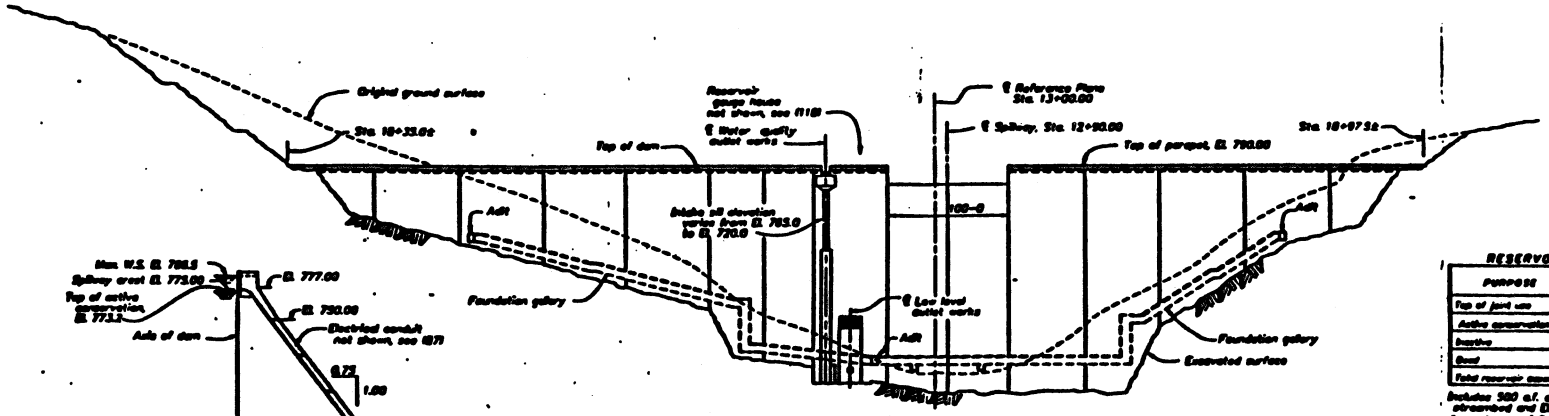
General Plan
Profiles and Details

Reservoir Area - Capacity Curve

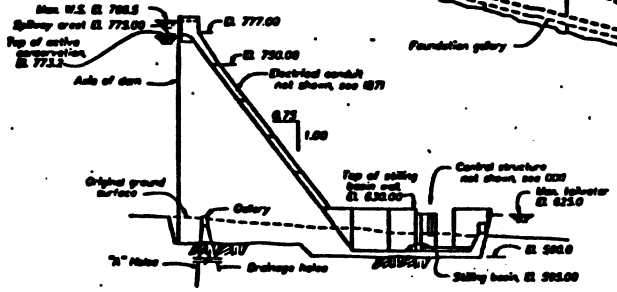


Milltown Hill reservoir storage capacity, and reservoir water surface area, versus reservoir pool.

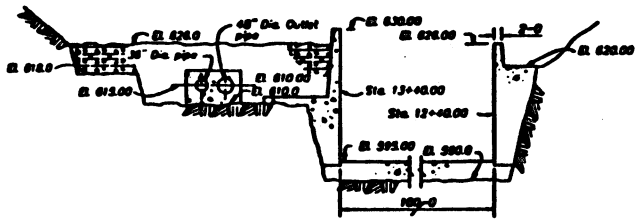
Source: Milltown Hill Project, Hydrology Appendix. Chapter 5, page 196.



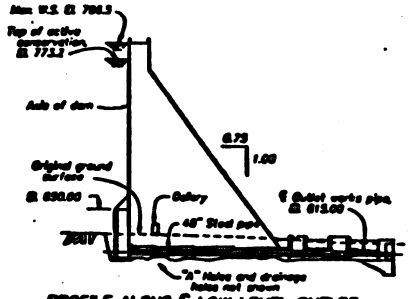
PROFILE ALONG AXIS OF DAM



PROFILE ALONG ℄ SPILLWAY



TYPICAL SECTION THRU STILLING BASIN
(UPSTREAM OF VALVE STRUCTURES)



PROFILE ALONG ℄ LOW LEVEL OUTLET

RESERVOIR CAPACITY ALLOCATIONS

PURPOSE	ELEVATION	CAPACITY (ACRE-FEET)
Top of joint use	772.3 to 775.0	1200
Active conservation	688.3 to 772.3	22443
Inactive	650.0 to 688.3	393
Dead	Streambed to 650.0	107
Total reservoir capacity		24143

Includes 500 a.f. allowance for 100 year sediment deposition between streambed and El. 688.3, of which 393 a.f. is above El. 650.
A surcharge of 8,974 acre-feet in combination with a spillway discharge of 13,215 c.f.s. is provided to protect against the inflow design flood (IDF), having a peak of 30,394 c.f.s. and a 7.5-day volume of 41,000 acre-feet.

NOTES

For notes and reference drawings, see 1 10 1.

ALWAYS THINK SAFETY

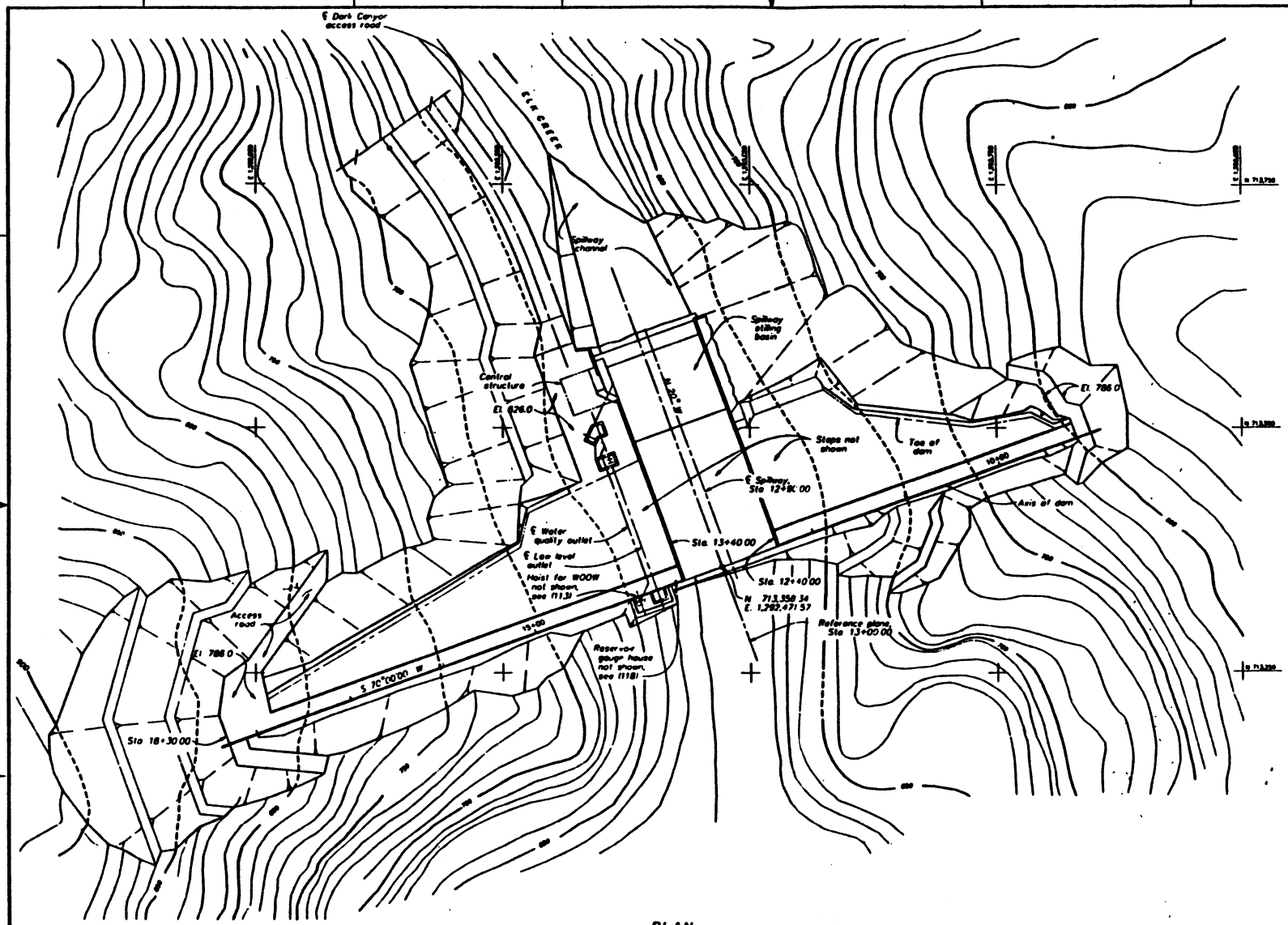
DOUGLAS COUNTY SYSTEM
WATER PROJECT

MILLTOWN HILL DAM
GENERAL PLAN
PROFILES AND DETAILS

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

DESIGNED DH DATE — REGIONAL APPROVAL AT REGIONAL
DRAWN DH DATE — SUBMITTED
CHECKED E KEEFE — APPROVED

SCALE AS INDICATED — DATE 1 OF 1 — DWG. CALCULATION — 1570-D-11



NOTES

Spwy is an abbreviation for Spillway
WOOW is an abbreviation for Water Quality Outlet Works
LLOW is an abbreviation for Low Level Outlet Works

REFERENCE DRAWINGS

FOUNDATION EXCAVATION	1570-D-1
LEVELING CONCRETE RCC AND FACING ELEMENTS	1570-D-26
DAM JOINTS	1570-D-2[illegible]
TOP OF DAM	1570-D-3
GALLERY AND ADITS	1570-D-[illegible]
SPILLWAY	1570-D-[illegible]
OUTLET WORKS	1570-D-[illegible]

ALWAYS THINK SAFETY

DOUGLAS COUNTY GREEN UNIPLAN PROJECT

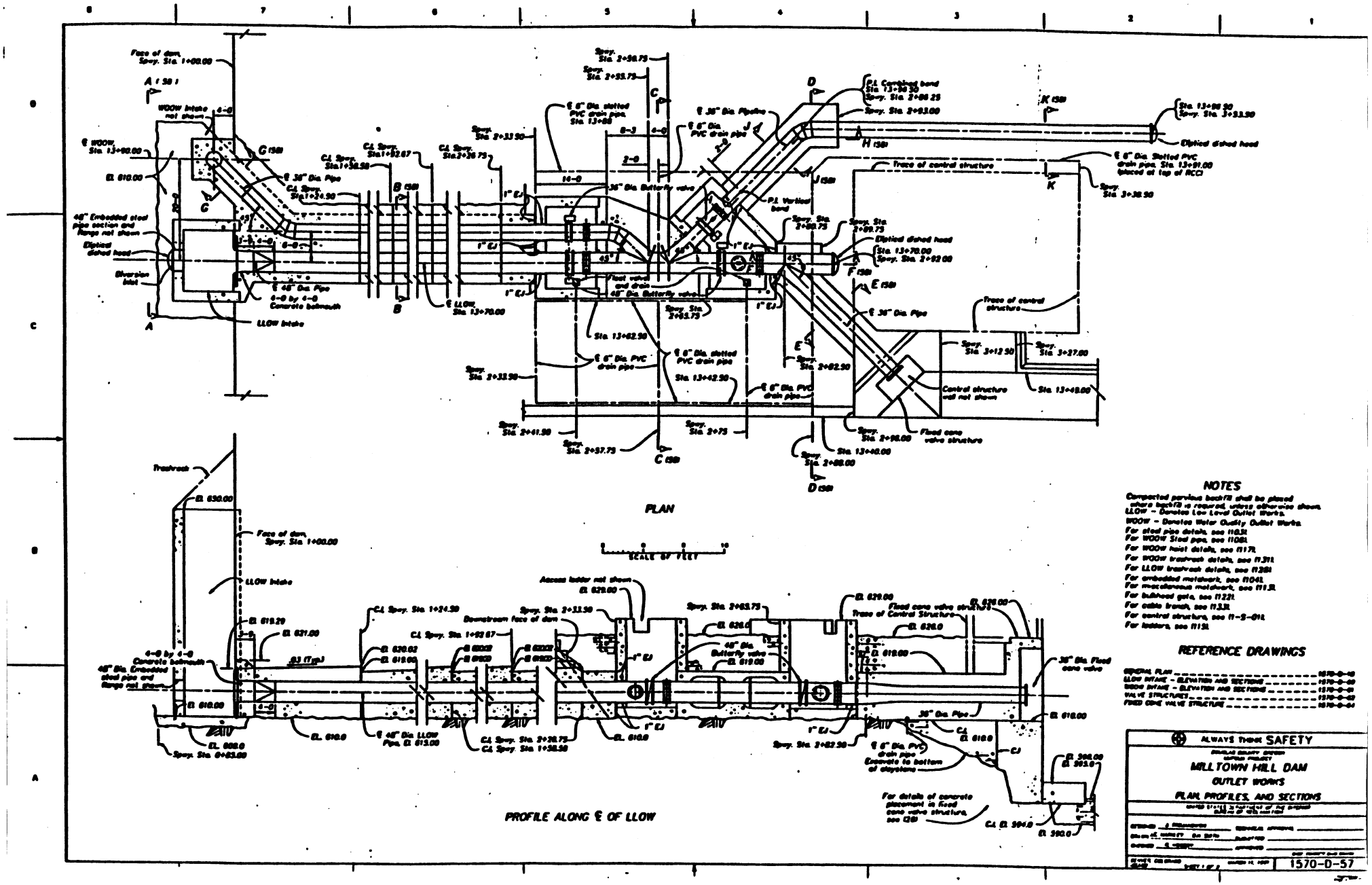
MILLTOWN HILL DAM
GENERAL PLAN
PROFILES AND DETAILS

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

DESIGNED: [illegible] TECHNICAL APPROVAL: [illegible]
DRAWN: [illegible] SUBMITTED:
CHECKED: [illegible] APPROVED:

DENVER, COLORADO — MAR 07 1980 — SHEET 1 OF 1

1570-D-1[illegible]



NOTES

Compacted pervious backfill shall be placed where backfill is required, unless otherwise shown.
LLOW – Denotes Low Level Outlet Works.
WOOW – Denotes Water Quality Outlet Works.
For steel pipe details, see 11031.
For WOOW Steel pipe, see 11061.
For WOOW hoist details, see 11171.
For WOOW trashrack details, see 11311.
For LLOW trashrack details, see 11301.
For embedded metalwork, see 11041.
For miscellaneous metalwork, see 11131.
For bulkhead gate, see 11221.
For cable trench, see 11331.
For control structure, see 11-2-011.
For ladders, see 11151.

REFERENCE DRAWINGS

GENERAL PLAN	1570-0-10
LLOW INTAKE – ELEVATION AND SECTIONS	1570-0-20
WOOW INTAKE – ELEVATION AND SECTIONS	1570-0-21
VALVE STRUCTURE	1570-0-22
FIXED CONE VALVE STRUCTURE	1570-0-24

ALWAYS THINK SAFETY

DOUGLAS COUNTY DIVISION
CAPITAL PROJECT

MILLTOWN HILL DAM

OUTLET WORKS

PLAN, PROFILES, AND SECTIONS

DRAWN: J. STRAUSBERGER
DESIGNED: J. HUNSICKER
CHECKED: S. HERSEY
APPROVED:

DOUGLAS COUNTY PUBLIC WORKS

SCALE: 1" = 10'
SHEET 1 OF 3
DATE: MARCH 14, 1989

1570-D-57