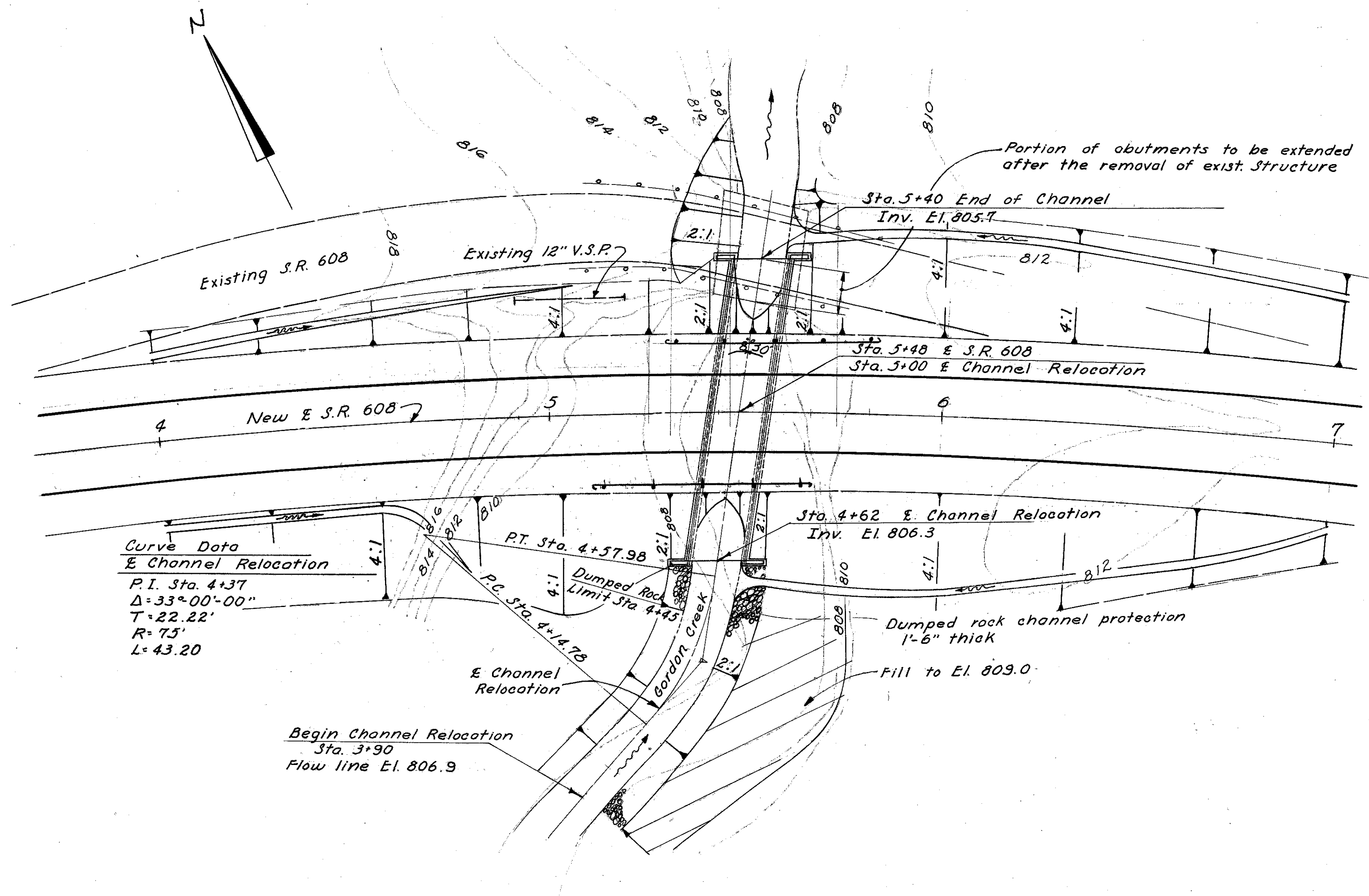
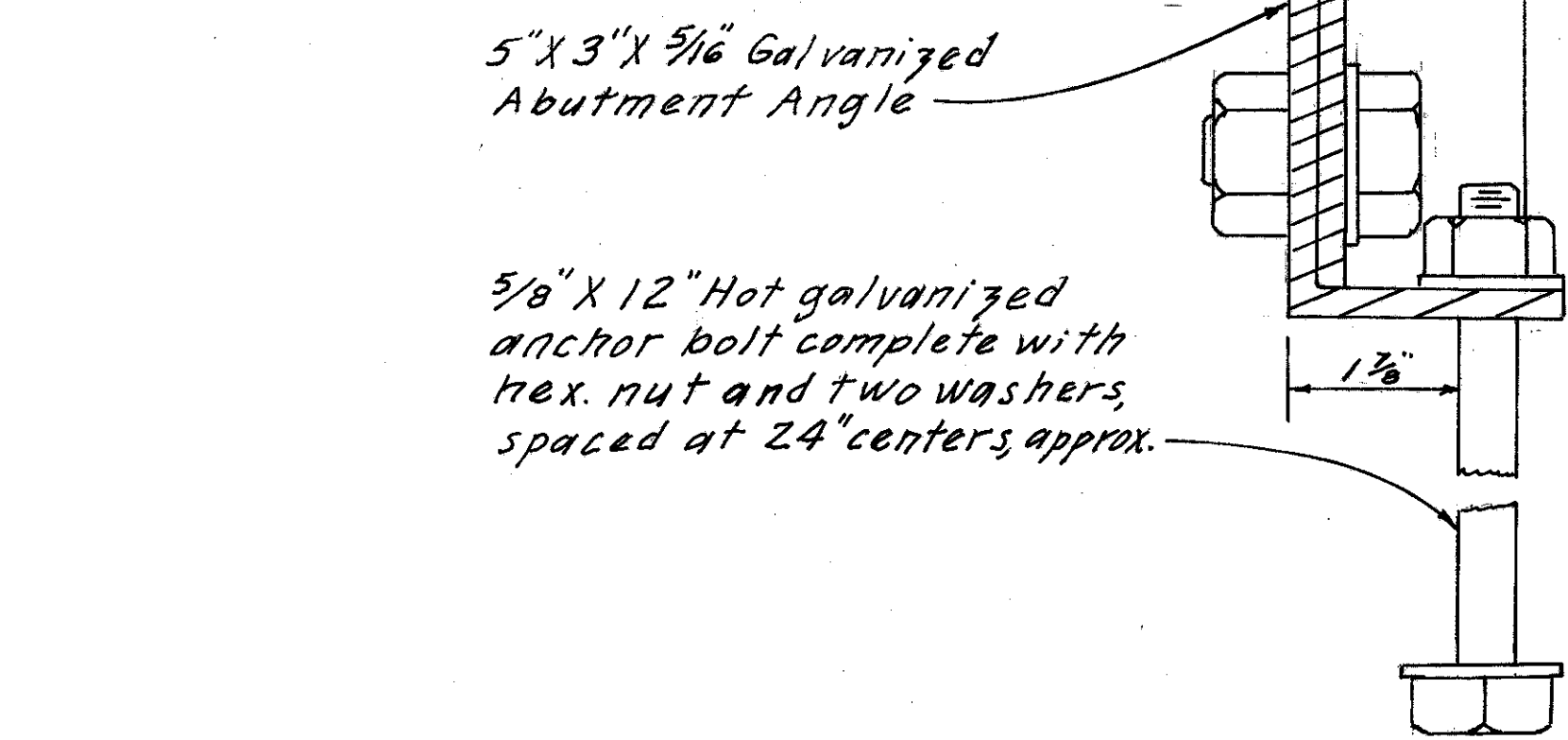


LAKE COUNTY
LAK-608-295



Curve Data
E Channel Relocation
P.I. Sta. 4+37
Δ=33°00'-00"
T=22.22'
R=75'
L=43.20

Curve Data
E.S.R. 608
P.I. Sta. 5+00.00
Δ=32°08'-55"
D=4°00'-00"
Ls=150
Cs=3°00'
x=149.96 y=2.62
Ts=487.93
Es=59.4

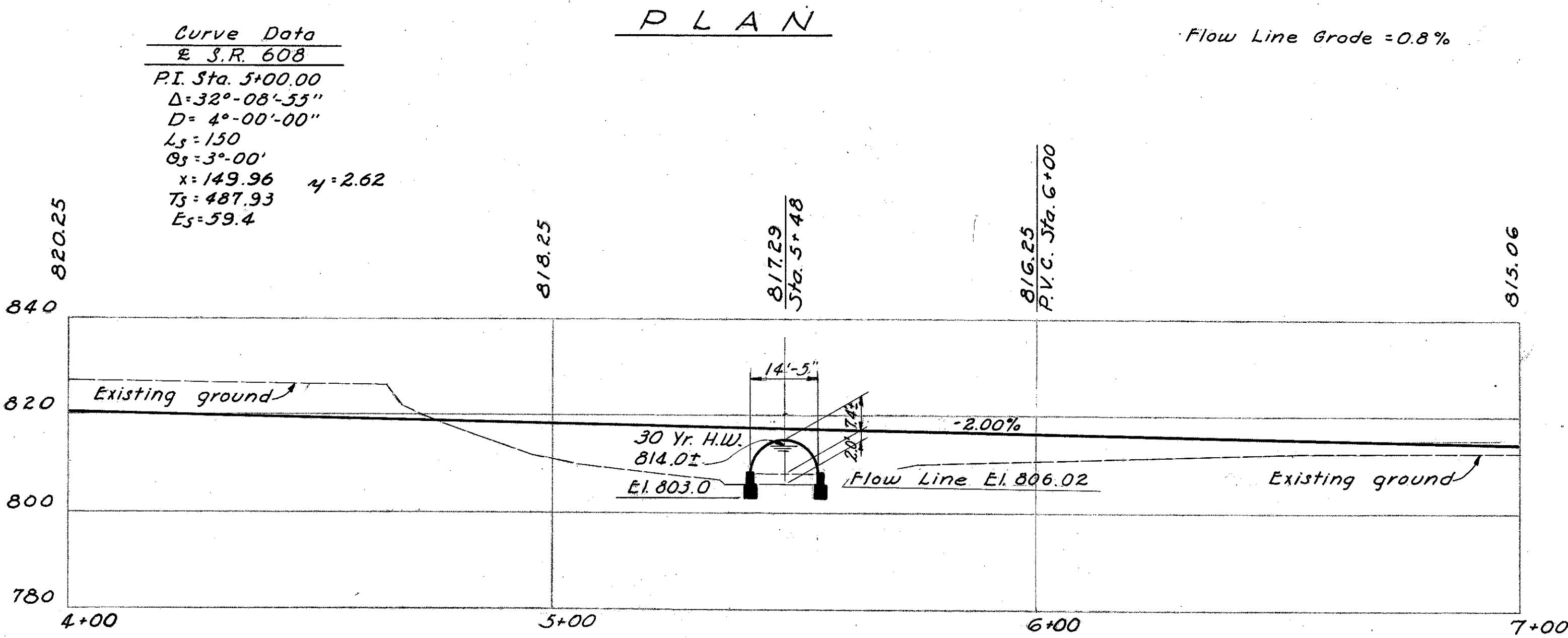


ALTERNATE
"Section D-D"

EXISTING STRUCTURE
Type : Stone Arch
Span : 11'-6"
Rise : 6'-9"
Loading : H-15
Skew : None

GENERAL SUMMARY			
DRAINAGE (Cont'd)			
ITEM	TOTAL	UNIT	DESCRIPTION
E-2	11	cu. yds.	Unclassified Excavation
E-2	54	cu. yds.	Shale Excavation
E-3	48	cu. yds.	Channel Excavation
S-1	54	cu. yds.	Class "E" Concrete, abutments
S-1	10	cu. yds.	Class "E" Concrete, apron
S-4	2,367	lbs.	Reinforcing Steel
S-24	Lump	sum	Removal of Existing Structure
S-28	78	lin. ft.	14'-0" x 7'-3" Sectional Corrugated Metal Arch Structure, Sec. M-6.4(g) 5 gage
I-10	25	cu. yds.	Dumped Rock Channel Protection

PROPOSED STRUCTURE
Type : Sectional Corrugated Arch
Span : 14'-0"
Rise : 7'-3"
Height of Cover : 2'-6" max., 1'-6" min.
Loading : H-15
Skew : 8°-30' Lt. Forward



PROFILE ON E.S.R. 608

P.V.I. Sta. 7+50
300' V.C.
El. 813.25
Corr. 1.83
P.G. El. 813.08
G₁ = -2.00% G₂ = +2.88%

GENERAL NOTE
Construction Procedure: The proposed arch shall be constructed in two stages to facilitate the maintenance of traffic. The first stage consists of the construction of the proposed arch to the existing stone arch and the construction of the embankment and pavement on relocated S.R. 608. Temporary slopes of 1:1 shall be constructed in the first stage north of the proposed pavement in the vicinity of the existing stone arch. After relocated S.R. 608 is opened to traffic the final stage shall be constructed. The final stage includes the removal of the existing stone arch, the extension of the proposed arch and the completion of the proposed slopes as shown on the site plan.

Waterway Opening = 107 sq. ft.
Drainage Area = 2640 Acres
Frequency = 10 years
Q = 920 cfs.

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SITE PLAN

Bridge No. LAK-608-0303
S.R. 608 over GORDON CREEK

LAKE COUNTY STA. 5+48+00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.C.	R.C.	E.M.	J.V.C.		FEB 3	1961