



BENCH MARK:- USGS BM "D-9, 1934"
B.P. in N.E. Corner N.Y.C. R.R. Station
55+50, 420 ft. Right. Elev. 655.76.

ESTIMATED QUANTITIES (RETAINING WALL "A"). TYPE CODE 7221			
ITEM	TOTAL	UNIT	DESCRIPTION
203	20	cu.yd.	Excavation of unsuitable material including replacement with granular material as per plan.
503	650	cu.yd.	Unclassified excavation
509	28,165	lb.	Reinforcing steel.
511	365	cu.yd.	Class "C" concrete, footings.
511	357	cu.yd.	Class "C" concrete, walls.
516	118	sq.ft.	1/2" Preformed expansion joint filler
512	143	lin.ft.	Premolded sealing strip.
516	84	sq.ft.	1" Preformed expansion joint filler
517	356.29	lin.ft.	Railing (concrete parapet with double pipe rail).
518	323	cu.yd.	Porous backfill

GENERAL NOTES
 REFERENCE shall be made to Standard Drawing BR-2-67 revised 1-1-71. and to Supplemental Specification Item 836 dated 1-1-71.
 DESIGN SPECIFICATIONS: This structure conforms to Standard Specifications for Highway Bridges adopted by the American Association of State Highway Officials, 1965 including the Ohio "Supplement" to these specifications.
 DESIGN DATA:
 Concrete Class "C" unit stress 1,333 psi.
 Reinforcing steel: ASTM A615, A616, A617 unit stress 20,000 p.s.i.
 FOUNDATION BEARING PRESSURE: Retaining wall footings are designed for a maximum bearing pressure of 1 1/2 tons per sq. ft.
 UTILITY LINES:- All expense involved in relocating (installing) the affected utility lines shall be borne by the Owner(s). The Contractor and Owner(s) are requested to cooperate by arranging their work in such a manner that inconvenience to either would be held to a minimum.

Stainless steel fasteners shall be properly passivated to remove surface impurities and shall be furnished with a lustrous finish.

UNSUITABLE FOUNDATION MATERIAL:- At the direction of the Engineer local soft unsuitable foundation areas within the limits of excavation shall be removed and replaced with granular material as described in 203.02. This additional excavation and subsequent replacement will be paid for at the unit cost bid for Item 203, "Excavation of unsuitable material including replacement with granular material, as per plan."

FOOTING KEYS:- The key for footings shall be placed in a carefully made trench against undisturbed earth.

BURGESS & NIPLE LIMITED — CONSULTING ENGINEERS
 COLUMBUS, OHIO

RETAINING WALL "A"
 GENERAL PLAN AND ELEVATION
 ESTIMATED QUANTITIES
 GENERAL NOTES

DESIGNED: K&B DRAWN: K&B TRACED: K&B CHECKED: AM
 REVIEWED DATE: JUN 26 1970

LAKE COUNTY STA. 58+25.00
 STA. 61+81.00