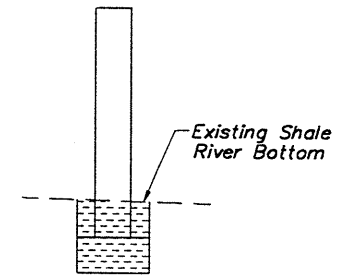


ESTIMATED QUANTITIES

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	GENERAL	ABUT.	PIER	SUPER.	AS PER PLAN REFERENCE SHEET NO.
202	11203	Lump Sum		Portions of Structure Removed, Over 20 Foot Span, As Per Plan #	Lump				2/19
503	11100	Lump Sum		Cofferdams, Cribbs and Sheeting	Lump				
503	21301	Lump Sum		Unclassified Excavation, As Per Plan	Lump				3/19
503	31120	70	Cu.Yd.	Shale Excavation			70		
503	41101	14	Cu.Yd.	Backfill, As Per Plan			14		3/19
503	41101	62	Cu.Yd.	Backfill, As Per Plan (Forward Abutment)		62			6/19
505	11100	Lump Sum		Pile Driving Equipment Mobilization	Lump				
507	00100	240	Lin.Ft.	Steel Piles HP10x42, Furnished		240			
507	00150	240	Lin.Ft.	Steel Piles HP10x42, Driven		240			
507	50500	8 ▲	Each	Steel Pile Splices		8 ▲			
511	31500	219	Cu.Yd.	Class S Concrete, Superstructure				219	
511	40500	162	Cu.Yd.	Class C Concrete, Pier Above Footings			162		
511	44101	38	Cu.Yd.	Class C Concrete, Abutment Not Including Footing, As Per Plan		38			5/19, 6/19
511	46500	79	Cu.Yd.	Class C Concrete, Footing		40	39		
SPECIAL	51267500	413	Sq.Yd.	Sealing of Concrete Surfaces (See Proposal Note)				413	
SPECIAL	51267510	81	Sq.Yd.	Sealing of Concrete Surfaces (Epoxy-Urethane) (See Proposal Note)		39		42	
516	44001	5	Each	Elastomeric Bearing With Internal Laminates And Load Plate, As Per Plan (9"x15"x1?" Neoprene)				5	
516	44000	5	Each	Elastomeric Bearing With Internal Laminates And Load Plate (9"x16"x1?" Neoprene)				5	
517	75120	262	Lin.Ft.	Railing (Concrete Parapet with Twin Steel Tube Railing)				262	
518	21200	47	Cu.Yd.	Porous Backfill With Filter Fabric		47			
518	40000	120	Lin.Ft.	6" Perforated Corrugated Plastic Pipe		120			
518	40010	44	Lin.Ft.	6" Non-Perforated Corrugated Plastic Pipe, Including Specials		44			
601	20000	30	Sq.Yd.	Crushed Aggregate Slope Protection		30			
601	34401	700*	Cu.Yd.	Rock Channel Protection, Grouted in Place, As Per Plan (Type A With Filter)		700*			2/19
863	10001	Lump Sum		Structural Steel Members, Miscellaneous Level Fabrication, A709, Grade 36, As Per Plan			Lump		8/19, 9/19
863	10240	76,800	Pound	Structural Steel Members, Level Two (2) Fabrication, A709, Grade 50W				76,800	
863	20000	1,520	Each	Welded Stud Shear Connectors				1,520	
863	50000	20	Each	Structural Steel, Misc.: 1?" Dia. Bolts				20	
863	50100	Lump Sum		Structural Steel, Misc.: East Ohio Gas Line Support Brackets And 8?" O.D. Steel Sleeve Pipes (See Note 5)	Lump				



PIER EXCAVATION DIAGRAM
(Not To Scale)

LEGEND:

- Indicates Area Included With Item 503- Shale Excavation.

- NOTES: 1. Epoxy Coated Reinforcing Steel, Grade 60 Shall be Incidental in the Price Bid for Structural Concrete.
2. # - The Estimated Removal Quantities Given in the General Note on Sheet 2/19 are Given for Information Only. The Contractor Shall Obtain His Own Quantities to be Used as a Basis for Determining His Bid Price for Item 202-Portions of Structure Removed, Over 20 Foot Span, As Per Plan.
3. ▲ - Indicates To Be Used as Directed By the Engineer.
4. * - Includes 115 Cu.Yd. Contingency To Be Used As Directed By the Engineer.
5. To Be Paid 100% By The East Ohio Gas Company to the City of Kirtland. Estimated Bracket Material Weight = 220 Pounds. Estimated Sleeve Pipe Length = 48 Lin. Ft.

CT Consultants, Inc.
 Engineers · Architects · Planners
 10000 · 10000 · 10000 · 10000 · 10000

DATE: 1/03/00
 REVIEWED: J.E.A.
 DRAWN: I.A.S.
 DESIGNED: I.A.S.
 CHECKED: J.P.R.

ESTIMATED QUANTITIES
 BRIDGE NO. LAK-615-0029
 OVER EAST BRANCH CHAGRIN RIVER

LAK-615-0.00