

DESIGNED BY: DR. D.M. APPROVED: [Signature]  
 DATE: 26th Dec. 1987  
 REVISIONS: [Table with 2 columns: No., Description]

COMPUTED SOIL PRESSURE K/2d Ft.

Bestial Load	22 K/2d Ft.
Live Load	08 K/2d Ft.
D.L. + Earth Pressure	48 K/2d Ft.

- NOTES:
- See general plan and layout sheet for exact location.
  - With type of arch used.
  - Number of window joints, holes and bays will vary.
  - Window joints for window bays to be incorporated in reinforcement bars and bays.
  - Window joints may be drilled into footing after the bars into windows. As an alternative 2" dia. by 10" dia. holes x 10" deep for 1" dia. by 1.6" long deformed horizontal joint to have 1/2"x9" bit felt for C-I-P option.
  - Vertical joint to have bond breaker and and arch section. May be poured integrally with footing.
  - Concrete to be accurately placed in notch and cured.
  - As an option the contractor may use a C-I-P precast slab.
  - Provide tapered shims, remove prior to grouting notch as directed by Engineer.
  - Remove precast arch slab option only.
  - Drill 5/8" dia. holes at assembly for precast arch bays.
  - Layout arch sections and headwalls on concrete footings. Adjust locations and joints as necessary. Mark locations on concrete footing after adjustments have been made.

See Bridge Design Manual for Bearing Pad Standards Design Tables.

STRUCTURE CONC. 3443

Reinforcement Bars	38,930 Pounds
Structure Excavation	1 (2.35M)
Elastomeric Bearing Pad (1"x13"x13")	30 Each

BILL OF REINFORCEMENT FOR FOOTINGS

BAR NO.	LENGTH	SHAPE	LOCATION
A201	10'-4"	Bent	CAP
A202	9'-7"	Bent	CAP
A203	4'-3"	Bent	CAP
A204	10'-11"	Bent	CAP @ ENDS
A205	10'-5"	Bent	Bottom Window Flg. - TRANSV.
A206	7'-8"	Straight	Top Window Flg. - TRANSV.
A207	5'-9"	Straight	TOP WINDOW FLG. - LONG.
A208	12'-0"	Straight	BOT WINDOW FLG. - LONG.
A209	15'-5"	"	BOT WINDOW FLG. - LONG.
A210	5'-10"	BENT	BOT WINDOW FLG. - LONG.
A211	5'-5"	STRT.	BOT WINDOW FLG. - LONG.
A212	30'-3"	"	TOP BOT ARCH FTG.
A213	38'-4"	"	TOP BOT ARCH FTG.
A214	4'-5"	STRT.	TOP ARCH FTG. - TRANSV.
A215	13'-4"	BENT	BOT ARCH FTG. - TRANSV.
A216	4'-5"	STRT.	TOP ARCH FTG. - LONG.
A217	5'-5"	BENT	TOP ARCH FTG. - LONG.
A218	15'-10"	"	CAP @ ENDS
A219	30'-3"	STRT.	TOP ARCH FTG. - LONG.
A220	35'-5"	STRT.	BOT ARCH FTG. - LONG.

