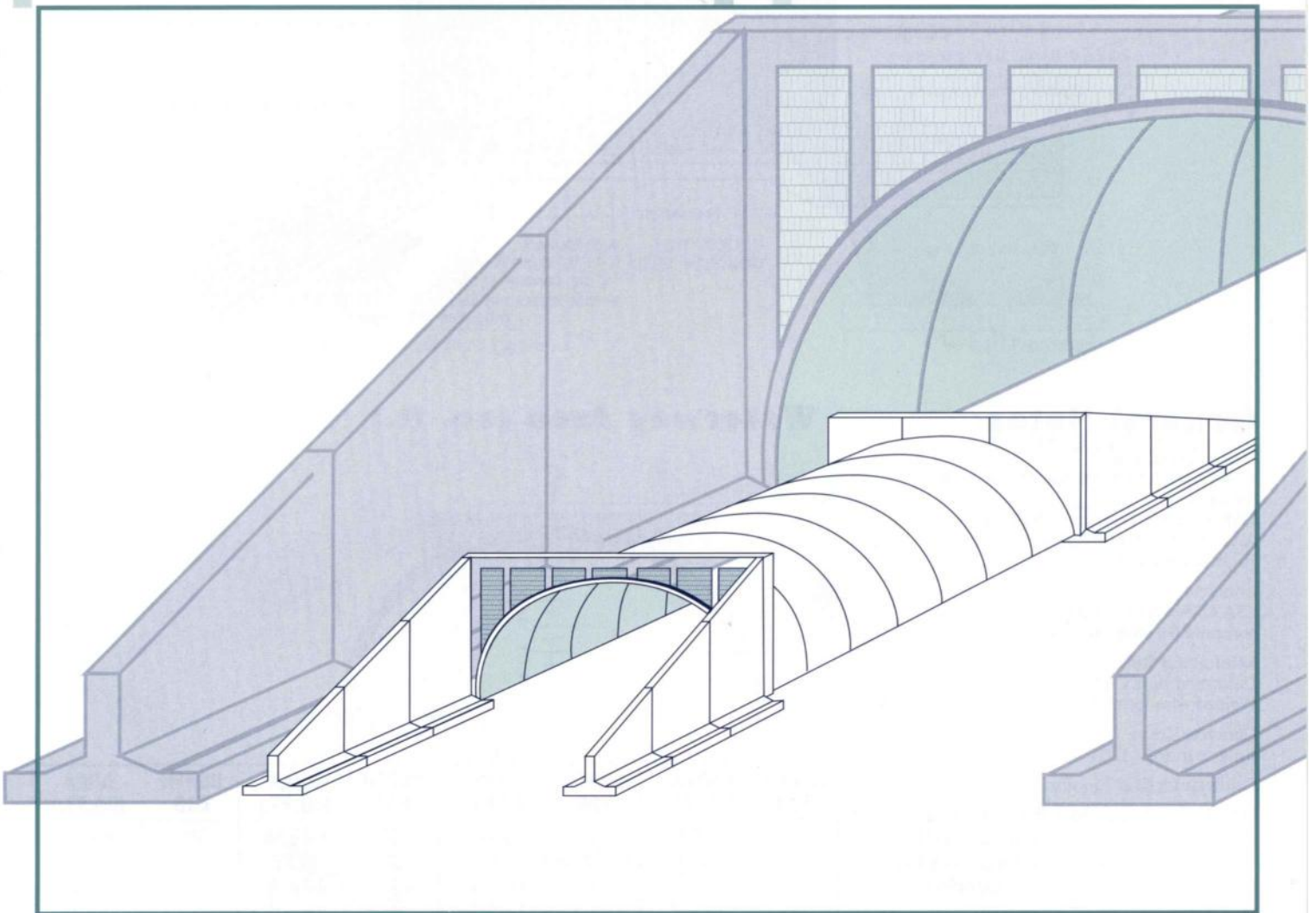


TYPE E30, E36, E42, E48

TYPE E30, E36, E42, E48

BEBO ARCH SYSTEM

... The Economical Solution



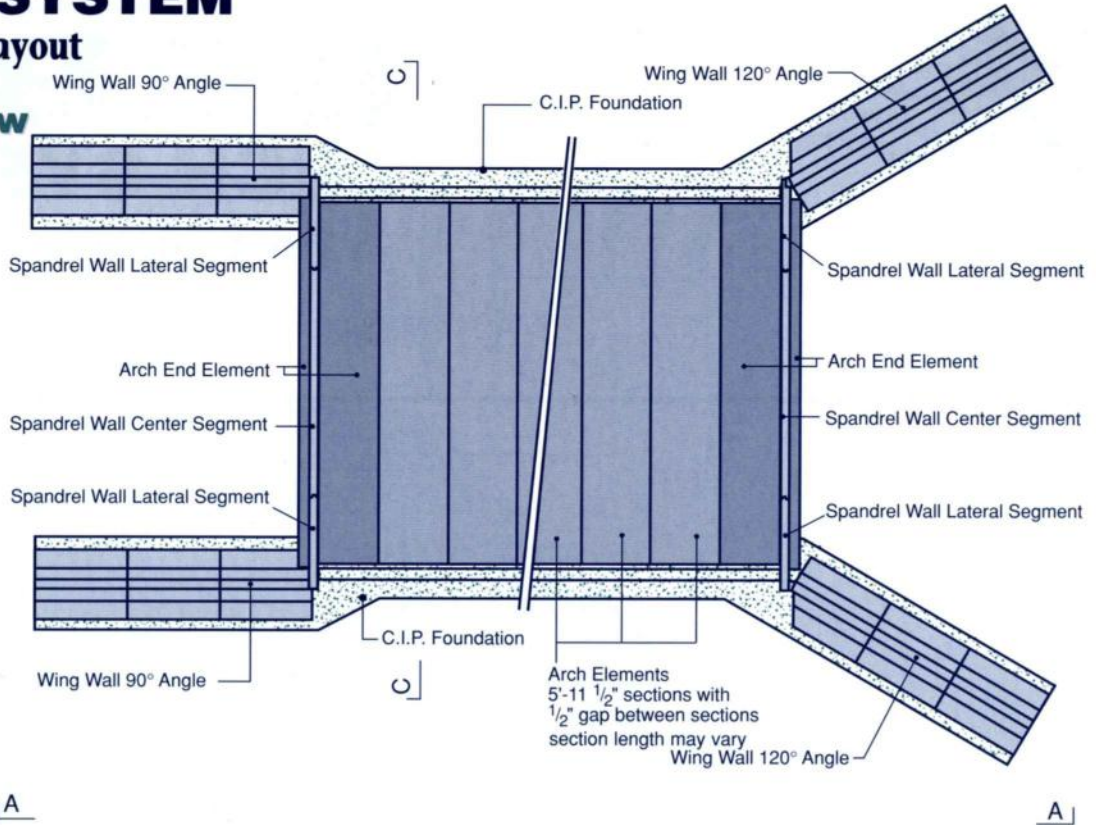
SHAW
PIPE

TYPE E30, 36, E42, E48

BEBO ARCH SYSTEM

Standard Layout

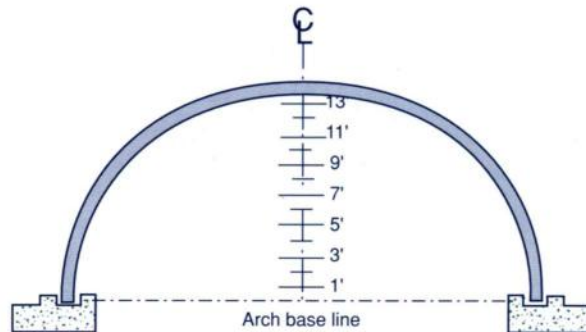
Plan View



General Notes:

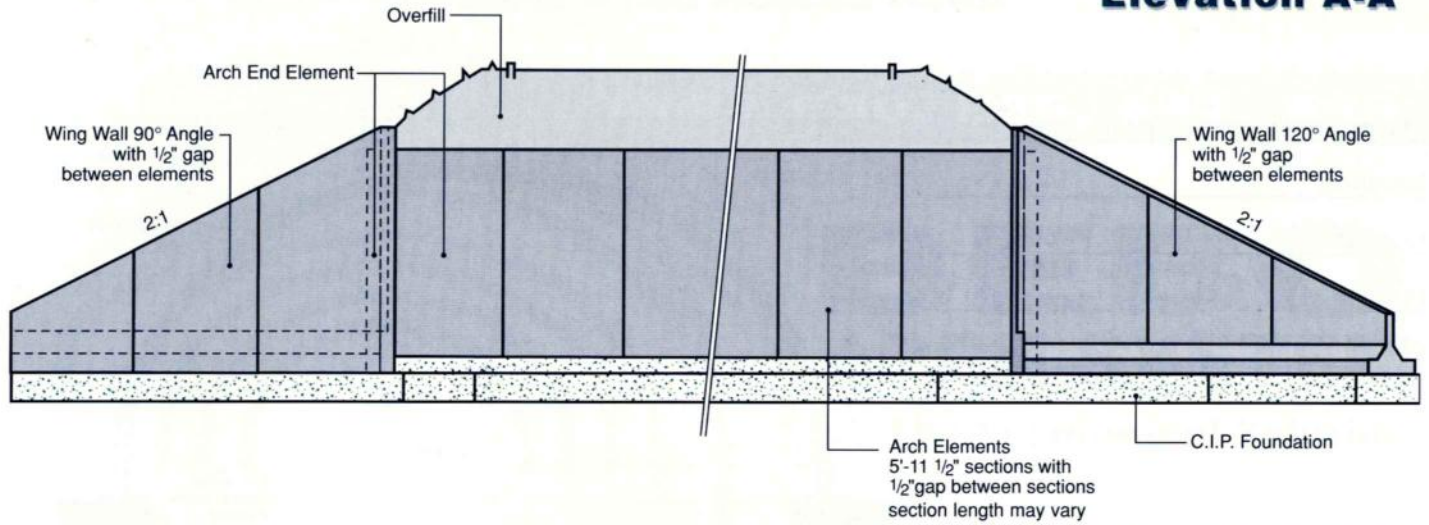
- Design Standards:
 - CSA CANS-A23.3 "Design of Concrete Structures"
 - CAN/CSA-S6 "Design of Highway Bridges"
 - AASHTO "Standard Specifications for Highway Bridges"
- Concrete:
 - CSA CAN3-A23.1 5,000 psi compressive strength (28 days)
- Reinforcing Steel:
 - Deformed bars CAN/CSA G30.12 Grade 400
 - Welded wire fabric CAN/CSA G30.5 Grade 450
- Concrete Cover:
 - Inner surfaces 1 1/2"
 - Outer surfaces 2" (against fill)
- Finish all exposed edges with 3/4" bevel
- Foundation:
 - To be designed according to local conditions (Precast footing options also available.)
- Design Loads:
 - CS-600 Truckload
- Earth Cover:
 - Min. 1 1/2 ft (including pavement) Max. 15 ft (Larger overfill heights can be accommodated if further analysis is undertaken and additional reinforcement used)

Waterway Area (sq. ft.)

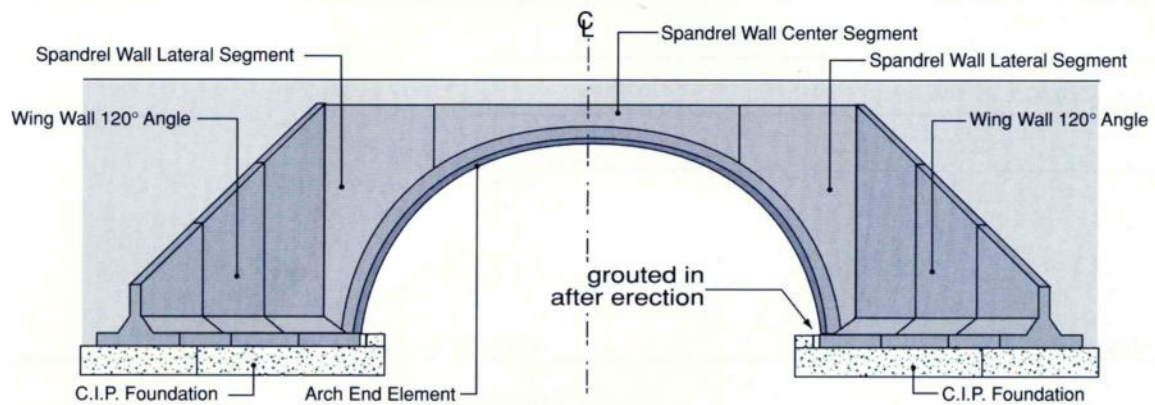


DEPTH	AREA	DEPTH	AREA	DEPTH	AREA	DEPTH	AREA
E30	(SQ.FT.)	E36	(SQ.FT.)	E42	(SQ.FT.)	E30	(SQ.FT.)
1'	30.0	1'	36.0	1'	41.9	1'	47.6
2'	60.0	2'	71.9	2'	83.5	2'	94.6
3'	90.0	3'	107.5	3'	124.5	3'	140.8
4'	119.7	4'	142.5	4'	164.8	4'	185.9
5'	149.0	5'	176.8	5'	204.0	5'	229.7
6'	177.5	6'	210.0	6'	241.9	6'	271.9
7'	205.1	7'	241.8	7'	278.0	7'	312.1
8'	231.5	8'	271.9	8'	312.2	8'	349.9
9'	256.2	9'	299.9	9'	343.9	9'	384.8
10'	278.9	10'	325.4	10'	372.7	10'	416.4
11'	299.1	11'	347.6	11'	397.7	11'	443.7
12'	315.9	12'	365.4	12'	417.8	12'	465.4
13'	328.0	13'	376.7	13'	430.5	13'	478.3
13'6"	330.9	13'2"	377.3	13'2"	431.2	13'1"	478.6

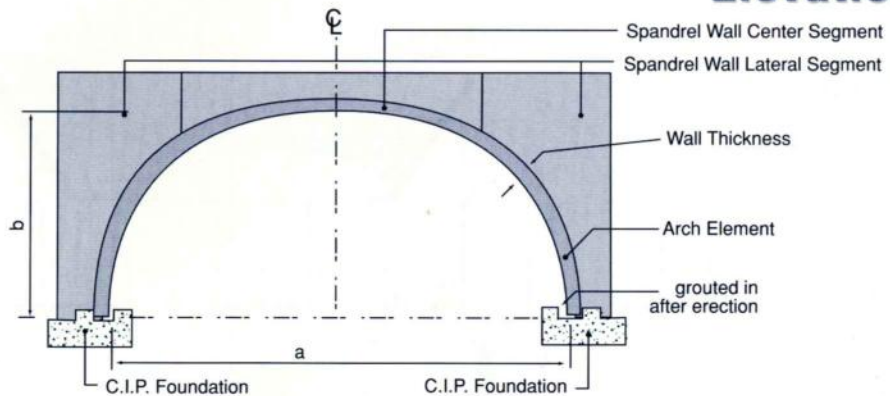
Elevation A-A



Elevation B-B



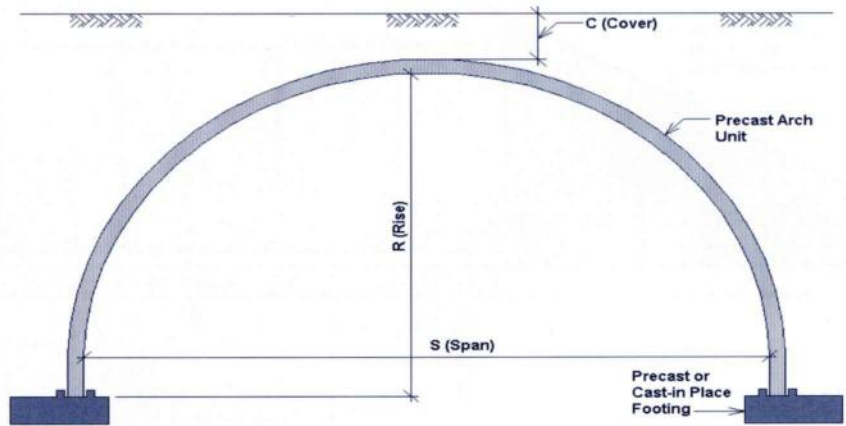
Elevation C-C



TYPE	A-SPAN (FT.)	B-RISE (FT.)	WEIGHT (LBS.)	WALL THICKNESS	TYPE	A-SPAN (FT.)	B-RISE (FT.)	WEIGHT (LBS.)	WALL THICKNESS
E30/0	28'11 1/2"	8'6"	27300	10"	E42/0	40'8 13/32"	10'2"	36430	10"
E30/1	29'6 17/32"	9'6"	28930	10"	E42/1	41'4 13/32"	11'2"	38070	10"
E30/2	29'10 5/8"	10'6"	30500	10"	E42/2	41'9 17/32"	12'2"	39660	10"
E30/3	30'	11'6"	32060	10"	E42/3	41'11 27/32"	13'2"	41230	10"
E30/4	30'	12'6"	33550	10"					
E30/4	30'	13'6"	35040	10"	E48/0	47'3 15/16"	12'1"	47200	11"
E36/0	34'8 11/32"	9'2"	31570	10"	E48/1	47'9 1/4"	13'1"	48960	11"
E36/1	35'4 13/32"	10'2"	33210	10"					
E36/2	35'9 17/32"	11'2"	34800	10"					
E36/3	35'11 27/32"	12'2"	36370	10"					
E36/4	36'	13'2"	37880	10"					

ARCH DESIGN DATA SHEET

Project Title: _____
 Location: _____
 Contact: _____
 Phone: _____
 Fax: _____



Geometry

Span (S): _____
 Width of Bridge (W): _____
 Rise (R): _____

Loads

Minimum Cover (C^{min}): _____ Maximum Cover (C^{max}): _____
 Specified Live Load: _____ Other Loads: _____
 Allowable Bearing Pressure: _____ Backfill Density: _____

