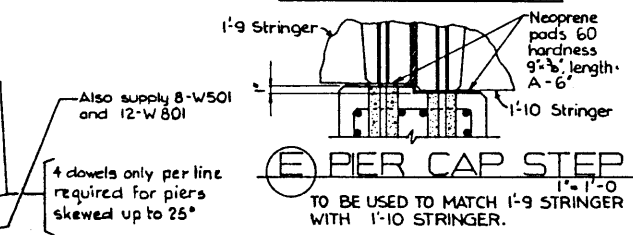


TABLE OF DIMENSIONS AND REINFORCEMENT

General	Skew	24' ROADWAY				27' ROADWAY				30' ROADWAY				33' ROADWAY				
		0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	0°	15°	30°	45°	
Overall Length	A	28'-0"	28'-11 3/4"	32'-4"	39'-7 1/8"	31'-0"	32'-1"	35'-9 1/2"	43'-10 1/8"	34'-0"	35'-2 1/4"	39'-3 1/8"	48'-1"	37'-0"	38'-3 1/2"	42'-8 3/4"	52'-4"	
Crown	B	3 3/8"	3 3/8"	3 3/8"	3 3/8"	3 3/4"	3 3/4"	3 3/4"	3 3/4"	4 1/16"	4 1/16"	4 1/16"	4 1/16"	4 7/16"	4 7/16"	4 7/16"	4 7/16"	
Differential for Roadway Grade of:	1%	C	0	0.08'	0.16'	0.28'	0	0.08'	0.18'	0.31'	0	0.09'	0.20'	0.34'	0	0.10'	0.21'	0.37'
	2%	C	0	0.15'	0.32'	0.56'	0	0.17'	0.36'	0.62'	0	0.18'	0.39'	0.68'	0	0.20'	0.43'	0.74'
	3%	C	0	0.23'	0.48'	0.84'	0	0.25'	0.54'	0.93'	0	0.27'	0.59'	1.02'	0	0.30'	0.64'	1.11'
Piles	Number	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	
	Spacing	D	5'-6"	5'-8 5/16"	6'-4 3/16"	7'-9 5/16"	6'-3"	6'-5 5/8"	7'-2 5/8"	8'-10 1/16"	5'-7 3/16"	5'-9 9/16"	6'-5 5/8"	7'-11 1/16"	6'-2 3/8"	6'-5"	7'-1 15/16"	8'-9 3/16"
	End Distance	E	3'-0"	3'-1 1/4"	3'-5 9/16"	4'-2 15/16"	3'-0"	3'-1 1/4"	3'-5 9/16"	4'-2 15/16"	3'-0"	3'-1 1/4"	3'-5 9/16"	4'-2 15/16"	3'-0"	3'-1 1/4"	3'-5 9/16"	4'-2 15/16"
Dowels	Number per line	9 ^a	9 ^a	9	9	10 ^a	10 ^a	10	10	11 ^a	11 ^a	11	11	12 ^a	12 ^a	12	12	
	Spacing	F	3'-0"	3'-1 1/4"	3'-5 9/16"	4'-2 15/16"	3'-0"	3'-1 1/4"	3'-5 9/16"	4'-2 15/16"	3'-0"	3'-1 1/4"	3'-5 9/16"	4'-2 15/16"	3'-0"	3'-1 1/4"	3'-5 9/16"	4'-2 15/16"
	End Distances	G	2'-6"	2'-7 1/16"	2'-10 5/8"	3'-6 7/16"	2'-6"	2'-7 1/16"	2'-10 5/8"	3'-6 7/16"	2'-6"	2'-7 1/16"	2'-10 5/8"	3'-6 7/16"	2'-6"	2'-7 1/16"	2'-10 5/8"	3'-6 7/16"
Abut. Wings	Wing Pile	H	4'-6"	4'-8"	5'-2"	6'-4"	4'-6"	4'-8"	5'-2"	6'-4"	4'-6"	4'-8"	5'-2"	6'-4"	4'-6"	4'-8"	5'-2"	6'-4"
	Wing Projection	J	4'-0"	4'-2"	4'-8"	5'-8"	4'-0"	4'-2"	4'-8"	5'-8"	4'-0"	4'-2"	4'-8"	5'-8"	4'-0"	4'-2"	4'-8"	5'-8"
Reinforcing - Abut.	Number of Dowels - D601	9	9	9	9	10	10	10	10	11	11	11	11	12	12	12	12	
	Number of Stirrups A401	38	39	44	53	42	43	48	59	46	48	53	65	50	52	58	70	
Reinforcing - One Pier	Length of Main Bars A701	K	27'-8"	28'-7"	32'-0"	39'-3"	30'-8"	31'-9"	35'-5"	43'-6"	33'-8"	34'-10"	38'-11"	47'-9"	36'-8"	37'-11"	42'-4"	52'-0"
	Number of Dowels - D601	18 ^a	18 ^a	18	18	20 ^a	20 ^a	20	20	22 ^a	22 ^a	22	22	24 ^a	24 ^a	24	24	
Reinforcing - One Pier	Number of Dowels - E701	30	30	30	30	30	30	30	30	36	36	36	36	36	36	36	36	
	Number of Stirrups P501	35	36	40	48	38	39	44	54	42	43	48	59	45	47	52	64	
Reinforcing - One Pier	Length of Main Bars A701	K	27'-8"	28'-7"	32'-0"	39'-3"	30'-8"	31'-9"	35'-5"	43'-6"	33'-8"	34'-10"	38'-11"	47'-9"	36'-8"	37'-11"	42'-4"	52'-0"
	Number of Stirrups P502	30	30	30	30	30	30	30	30	36	36	36	36	36	36	36	36	

Mark	Size	Type	Length	Type
A 401	4	A	6'-4"	
A 701	7	B	K+ 1'-8"	
W 501	5	Str.	40'-0"	
W 801	8	Str.	11'-0"	
P 501	5	C	6'-8"	
D 601	6	Str.	2'-6"	
E 701	7	Str.	3'-0"	
P 502	5	D	5'-7"	



- GENERAL NOTES**
- All reinforcement shall have a minimum clear concrete cover of 2".
 - All concrete to be Class B except pipe pile concrete.
 - All exposed corners to have 3/4" chamfer or fillet.
 - All exposed concrete shall be formed with oiled plywood or approved equivalent.
 - All surfaces except bearing surfaces and bottom and fill side of abutment to be given a Class 5 finish.
 - Pipe piles shall be given three (3) field coats of paint. Painting shall otherwise conform to the Bridge Branch Construction Specification for Painting Metal Structures.
 - Piles shall be driven to the following bearing values unless the required penetration is determined on the basis of a soil analysis:
 - Pier piles - 48 tons
 - Abutment piles - 36 tons
 - See Standard Drawing S-827 for Pipe Pile Splice Details.
 - For superstructure details not shown see Drawing S-860.
 - In using this plan the following limits shall not be exceeded:
 - Height of deck above streambed - 20 ft.
 - Top of fill to backwall - 5 ft.
 - Skew - 45°
 - Ice - usual ice load in small stream.

APPROVED

PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS AND TRANSPORT
BRIDGE BRANCH

CONCRETE SUBSTRUCTURE
FOR 33' & 38' VH BRIDGES
HS 25 TRUCK

DESIGNED J.C.Y.H. DRAWN BY I. STANLEY DATE JULY 1973 CHECKED BY DATE STREAM LOCATION HWY. NO. SCALE AS SHOWN FILE NO. SHEET 5-1089

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	SEPT 11 73	H PILES ALTERNATE ADDED	J.C.Y.
2	7-9-73	NAME CHANGED FROM "HC"	R.L.F.

NOTE: THIS DRAWING HAS BEEN REDUCED TO 22"X34" DO NOT SCALE