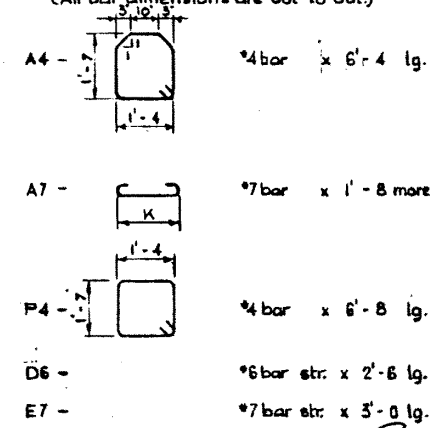


TABLE OF DIMENSIONS AND REINFORCEMENT

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'-6"	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 off	12	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'
	24	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'
	36	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	D	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'-3 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"
Details	Number per line	F	9*	9*	9	9	10*	10*	10	10	11*	11*	11	11	12*	12*	12	12
	Spacing	F	3'-0"	3'-1 1/4"	3'-9 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 Distance	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"
Dist. Wings	T.T. Pile Location	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"
	Plank 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	Number of Dowels - D6	I	9	9	9	9	10	10	10	11	11	11	11	12	12	12	12	
	Number of Stirrups A4	I	35	36	40	48	38	39	44	54	42	43	48	59	45	47	52	64
	Length of Main Bars A7	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 - E7	L	18*	18*	18	18	20*	20*	20	20	22*	22*	22	22	24*	24*	24	24
Reinforcing One Pier	Number of Dowels - E7	M	30	30	30	30	30	30	30	36	36	36	36	36	36	36	36	
	Number of Stirrups P4	M	35	36	40	48	38	39	44	54	42	43	48	59	45	47	52	64
	Length of Main Bars A7	N	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"

BAR TYPES (All bar dimensions are out to out)



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 1/4" chamfer or fillet.
- All exposed concrete shall be formed with oiled plywood or approved equivalent.
- Pier caps shall 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 - 40 tons.
  - Abutment piles - 30 tons.
- See Sbd. Drawing 5-827 for Pipe Pile Splice Details.
- For superstructure details not shown see Dwg 5-860.
- 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

**SUPERSEDED**

NO.	DATE	DESCRIPTION	BY

CONCRETE SUBSTRUCTURE FOR 33' & 38' HC BRIDGES

GOVERNMENT OF THE PROVINCE OF ALBERTA  
DEPARTMENT OF HIGHWAYS AND TRANSPORT  
BRIDGE BRANCH, EDMONTON

FILE NO. \_\_\_\_\_ HWY. NO. \_\_\_\_\_ DWS. NO. \_\_\_\_\_  
LOCATION \_\_\_\_\_ SCALE \_\_\_\_\_ SHOWN \_\_\_\_\_  
STREAM \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_

APPROVED: *[Signature]* Dec 3, 1970

DESIGNED BY: C.W. Karmelisen  
 DRAWN BY: P. J. ...  
 CHECKED BY: ...  
 DATE: ...