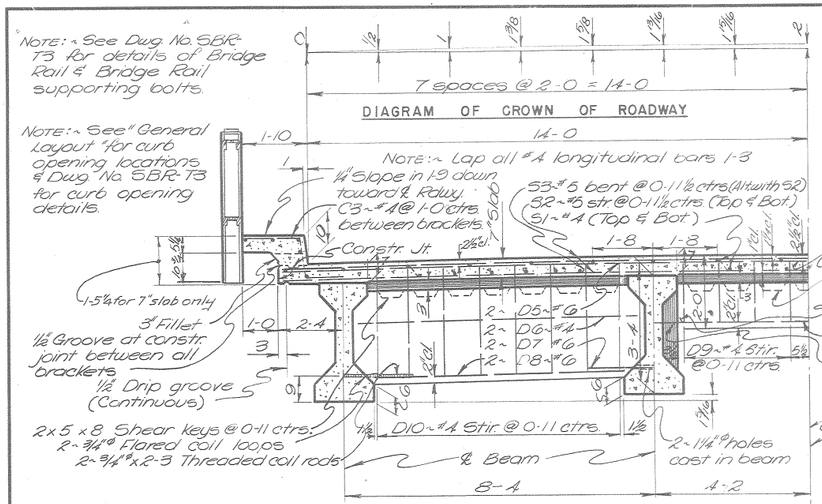
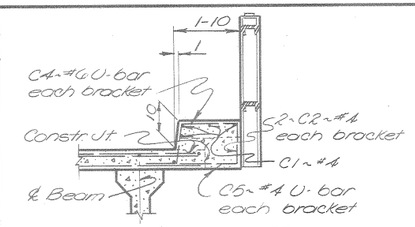
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.		SHEET NO.	TOTAL SHEETS
8	MONT.				

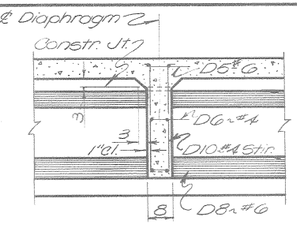


TYPICAL ROADWAY SECTION 30 THRU. 50 FT. SPANS

I-10 CURB & STANDARD STEEL BRIDGE RAIL TYPE NO. 3

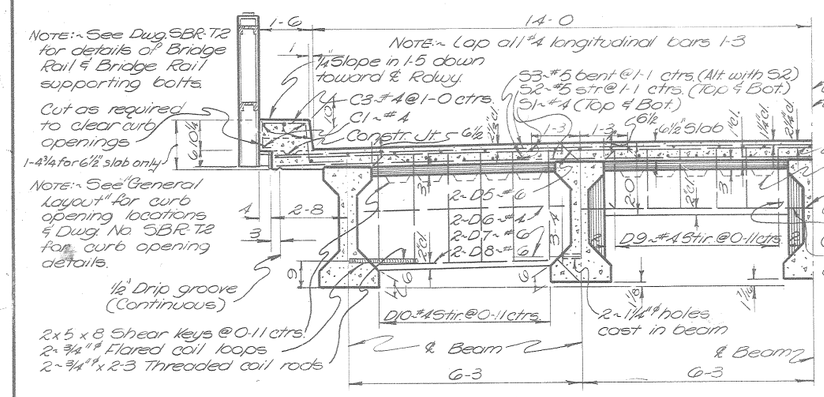


SECTION THRU. BRACKET



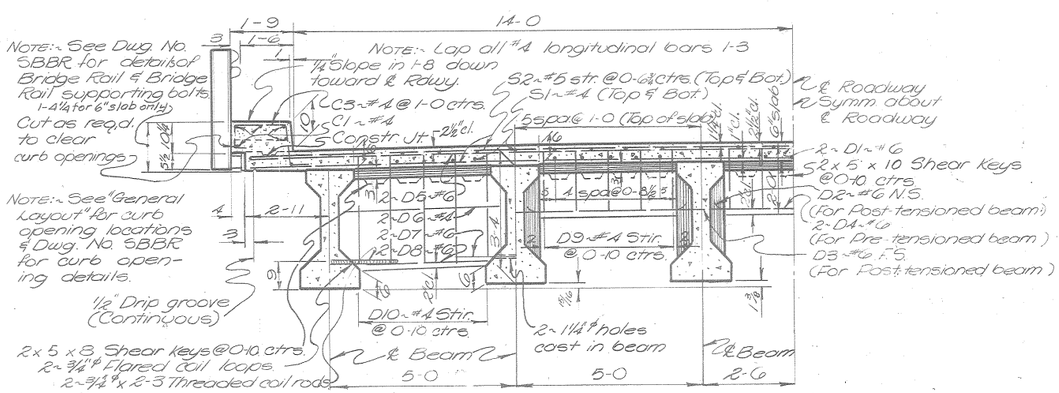
SECTION THRU. INTERMEDIATE DIAPHRAGM
(Cast in place)

NOTE:- Provide one intermediate diaphragm at ℄ of beam for all beams 60 ft or less in length. Provide two intermediate diaphragms for beams over 60 ft in length.



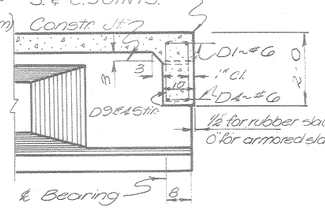
TYPICAL ROADWAY SECTION 55 & 60 FT. SPANS

I-6 CURB & STANDARD STEEL BRIDGE RAIL TYPE NO. 2



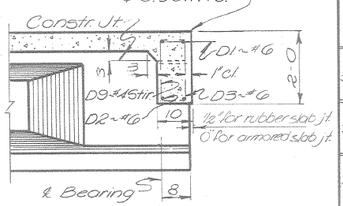
TYPICAL ROADWAY SECTION 65 & 70 FT. SPANS

I-6 CURB & STEEL BEAM BRIDGE RAIL



SECTION THRU END DIAPHRAGM FOR PRE-TENSIONED BEAM AT INTER. BENT OR PIER

NOTE:- See End Bent drawing for details at End Bent.

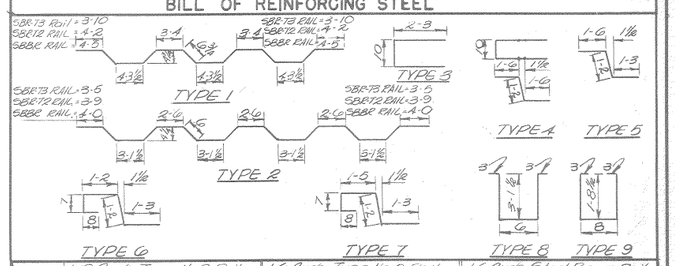


SECTION THRU. END DIAPHRAGM FOR POST-TENSIONED BEAM AT INTER. BENT OR PIER

NOTE: For details of Prestressed Concrete Beams and for other notes & details see Dwgs. No. PRES.-BEAM STD. No. 1 & No. PRES.-S. & C. JOINTS.

NOTE: Concrete curb shall not be poured on spans over 60 ft. in length for at least 72 hrs. after concrete in slab has taken initial set.

BILL OF REINFORCING STEEL



SPAN	I-10 Curb-Type No. 3 Rail					I-6 Curb-Type No. 2 Rail					I-6 Curb-Steel Beam Rail				
	Mark	Size	No.	Type	Length	Mark	Size	No.	Type	Length	Mark	Size	No.	Type	Length
30 thru 70	C2	#4	Varies	Str.	1'-2"	C3	#4	Varies	6	4'-10"	C5	#4	Varies	7	5'-1"
	C3	4	Varies	5	3-11										
	C4	6	Varies	4	9-2										
	C5	4	Varies	3	5-4										
30-0	S1	4	76	Str.	16-2	S1	4	76	Str.	16-2	S1	4	76	Str.	16-2
	S2	5	60	Str.	29-4	S2	5	60	Str.	30-0	S2	5	60	Str.	30-6
	S3	5	30	1	30-4	S3	5	30	1	31-0	S3	5	30	1	31-6
	C1	4	16	Str.	16-2	C1	4	20	Str.	16-2	C1	4	20	Str.	16-2
35-0	S1	4	76	Str.	18-8	S1	4	76	Str.	18-8	S1	4	76	Str.	18-8
	S2	5	72	Str.	29-4	S2	5	72	Str.	30-0	S2	5	72	Str.	30-6
	S3	5	36	1	30-4	S3	5	36	1	31-0	S3	5	30	1	31-6
	C1	4	16	Str.	18-8	C1	4	20	Str.	18-8	C1	4	20	Str.	18-8
40-0	S1	4	76	Str.	21-2	S1	4	76	Str.	21-2	S1	4	76	Str.	21-2
	S2	5	84	Str.	29-4	S2	5	84	Str.	30-0	S2	5	84	Str.	30-6
	S3	5	40	1	30-4	S3	5	40	1	31-0	S3	5	40	1	31-6
	C1	4	16	Str.	21-2	C1	4	20	Str.	21-2	C1	4	20	Str.	21-2
45-0	S1	4	76	Str.	23-8	S1	4	76	Str.	23-8	S1	4	76	Str.	23-8
	S2	5	92	Str.	29-4	S2	5	92	Str.	30-0	S2	5	92	Str.	30-6
	S3	5	46	1	30-4	S3	5	46	1	31-0	S3	5	46	1	31-6
	C1	4	16	Str.	23-8	C1	4	20	Str.	23-8	C1	4	20	Str.	23-8
50-0	S1	4	76	Str.	26-2	S1	4	76	Str.	26-2	S1	4	76	Str.	26-2
	S2	5	104	Str.	29-4	S2	5	104	Str.	30-0	S2	5	104	Str.	30-6
	S3	5	50	1	30-4	S3	5	50	1	31-0	S3	5	50	1	31-6
	C1	4	16	Str.	26-2	C1	4	20	Str.	26-2	C1	4	20	Str.	26-2
55-0	S1	4	90	Str.	28-8	S1	4	90	Str.	28-8	S1	4	90	Str.	28-8
	S2	5	100	Str.	29-4	S2	5	100	Str.	30-0	S2	5	100	Str.	30-6
	S3	5	60	2	30-6	S3	5	60	2	31-2	S3	5	60	2	31-8
	C1	4	16	Str.	28-8	C1	4	20	Str.	28-8	C1	4	20	Str.	28-8
60-0	S1	4	90	Str.	31-2	S1	4	90	Str.	31-2	S1	4	90	Str.	31-2
	S2	5	112	Str.	29-4	S2	5	112	Str.	30-0	S2	5	112	Str.	30-6
	S3	5	54	2	30-6	S3	5	54	2	31-2	S3	5	54	2	31-8
	C1	4	16	Str.	31-2	C1	4	20	Str.	31-2	C1	4	20	Str.	31-2
65-0	S1	4	110	Str.	33-8	S1	4	110	Str.	33-8	S1	4	110	Str.	33-8
	S2	5	228	Str.	29-4	S2	5	228	Str.	30-0	S2	5	228	Str.	30-6
	C1	4	16	Str.	33-8	C1	4	20	Str.	33-8	C1	4	20	Str.	33-8
70-0	S1	4	110	Str.	36-2	S1	4	110	Str.	36-2	S1	4	110	Str.	36-2
	S2	5	246	Str.	29-4	S2	5	246	Str.	30-0	S2	5	246	Str.	30-6
	C1	#4	16	Str.	36-2	C1	#4	20	Str.	36-2	C1	#4	20	Str.	36-2

INTER. DIAPHRAGM & END DIAPHRAGM BARS	30 THRU 50 FT. SPANS					55 & 60 FT. SPANS					65 & 70 FT. SPANS				
	D1	#6	4	Str.	20'-4"	D1	#6	4	Str.	20'-4"	D1	#6	4	Str.	20'-4"
	D2	6	6		6'-11	D2	6	8		4-10	D2	6	10		3-7
	D3	6	2		26-0	D3	6	2		26-0	D3	6	2		26-0
	D4	6	4		26-0	D4	6	4		26-0	D4	6	4		26-0
	D5	6	2		29-4	D5	6	2		29-4	D5	6	4		29-4
	D6	4	6		7-8	D6	4	8		5-7	D6	4	20		4-4
	D7	6	4		4-10	D7	6	6		4-10	D7	6	16		4-2
	D8	6	6	Str.	6-10	D8	6	8	Str.	4-9	D8	6	20	Str.	3-6
	D9	4	48	9	4-7	D9	4	48	9	4-7	D9	4	50	9	4-7
	D10	#4	24	8	7-3	D10	#4	24	8	7-3	D10	4	20	8	7-3

NOTE: Eliminate one-half of all D1, D2, D3, D4 and D9 end diaphragm bars for end span. Eliminate all D1, D2, D3, D4 and D9 end diaphragm bars for single span. See End Bent for additional details of end span.

NOTE: For "Detail of Curb at End Bent" & End Bent details, see End Bent Drawing.

NOTE: D2 & D3 bars to be used with Post-tensioned beams only. D4 bars to be used with Pretensioned beams only.

*NOTE: For number of C2, C3, C4 and C5 bars that are required for completed structure, see "Partial Bill of Reinforcing Steel" on "General Layout."

STATE OF MONTANA
STATE HIGHWAY COMMISSION

STANDARD SLAB, CURB & DIAPHRAGM FOR PRESTRESSED CONCRETE BEAMS
30 THRU 70 FT. SPANS — 28 FT. ROADWAY

H20-S16 OR ALTERNATE LOADING

I-10 CURB & STD. STEEL BRIDGE RAIL-TYPE NO. 3
I-6 CURB & STD. STEEL BRIDGE RAIL-TYPE NO. 2
I-6 CURB & STEEL BEAM BRIDGE RAIL

Scale: 1/4" = 1'-0"

DESIGNED	J.C.B.	10-30-58
DRAWN	H.K.L.	11-26-58
TRACED	K.L.F.	12-8-58
CHECKED	H.E.S.	2-19-59
REVISED		
REVISED		

APPROVED BY ____ BRIDGE ENGINEER

DRAWING NO. SLAB-30 to 70-R28-LIS