



ROADWAY SLAB SHALL BE PLACED IN SECTIONS AND IN SEQUENCE INDICATED. ALTERNATE PROCEDURES FOR PLACING SLAB CONCRETE MAY BE SUBMITTED FOR APPROVAL TOGETHER WITH A STATEMENT OF THE PROPOSED METHOD AND EVIDENCE THAT THE CONTRACTOR POSSESSES THE NECESSARY EQUIPMENT AND FACILITIES TO ACCOMPLISH THE REQUIRED RESULT.

(SUPERSTRUCTURE PLUS TWO INTEGRAL ABUTMENTS)

LOCATION	SECTION 3 SLAB, WINGWALLS, ABUTMENT DIAPHRAGM, AND MASKWALL					
	£-£ ABUTMENT BEARING	222'-0	232'-0	242'-0	252'-0	262'-0
	BEAM SERIES	BD1010	BD1015	BD1020	BD1025	BD1030
SECTION 1 SLAB, WINGWALLS, ABUTMENT DIAPHRAGM, AND MASKWALL	(B)	106.9	110.5	114.2	117.8	121.5
SECTION 2 SLAB, WINGWALLS, ABUTMENT DIAPHRAGM, AND MASKWALL	(B)	106.9	110.5	114.2	117.8	121.5
SECTION 3 SLAB AND PIER DIAPHRAGM	(B)	34.4	35.4	36.6	37.5	38.5
ABUTMENT WINGS		7.3	7.3	7.3	7.3	7.3
ABUTMENT FOOTINGS		35.0	35.0	35.0	35.0	35.0
TOTAL		290.5	298.7	307.2	315.4	323.5

(SUPERSTRUCTURE PLUS TWO INTEGRAL ABUTMENTS)

ITEM	ℓ-ℓ ABUTMENT BEARING	222'-0	232'-0	242'-0	252'-0	262'-0
	BEAM SERIES	BD101I	BD101I5	BD102I	BD102I5	BD103I
EXCAVATION, CLASS 20	CY	109	109	109	109	109
STRUCTURAL CONCRETE (BRIDGE)	CY (B)	290.5	298.7	307.2	315.4	323.5
REINFORCING STEEL	LB	6,045	6,045	6,062	6,062	6,062
REINFORCING STEEL, EPOXY COATED	LB	73,053	76,080	79,045	83,392	86,421
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D110	EACH	8				
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D115	EACH		8			
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D120	EACH			8		
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D125	EACH				8	
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D130	EACH					8
STRUCTURAL STEEL	LB	3,680	3,680	3,680	11,042	11,042
NUMBER OF PILES, DRIVE STEEL BEARING, HP 10 X 57 (A)		20	22	22	22	22
NUMBER OF PILES, FURNISH STEEL BEARING, HP 10 X 57 (A)		20	20	22	22	22
PREFRIGED HOLES	LF	200.0	200.0	220.0	220.0	220.0

2.2. IDENTIFYING PROBLEMS

LOCATION	C-C ABUTMENT BEARING		222'-0	232'-0	242'-0	252'-0	262'-0
	BEAM	SERIES	BD1010	BD1115	BD1220	BD1225	BD1330
END DISTANCE ON 601 BARS (TOP)	"A"	5	4	7	5		
NO. OF SPACES FOR 601 BARS (TOP)	"B"	283	296	308	321	334	
NO. OF SPACES FOR 601 BARS (BOTTOM) AND 511 BARS (TOP)	"C"	282	295	307	320	333	
OUT TO OUT OF SLAB	"D"	225'-0	235'-0	245'-0	255'-0	265'-0	
SLAB TRANSVERSE CONSTR. JT. DISTANCE FROM C/L PIER	"X"	13'-11	14'-6	15'-2	15'-9	16'-5	

- (A) THIS QUANTITY REPRESENTS THE NUMBER OF PILES.
PILE LENGTH SHALL BE DETERMINED BASED ON SOIL
INFORMATION AND TO BE INCLUDED ON THE "ESTIMATED
PROJECT QUANTITIES" SHEET.
- (B) DOES NOT INCLUDE HAUNCH QUANTITIES.
SEE "GENERAL ELEVATION DATA" SHEET FOR
HAUNCH QUANTITIES.

SEE BT30-SAG-04 FOR SUPERSTRUCTURE BAR LISTS.

SEE "SITUATION PLAN" FOR NORTH ARROW.

LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER <i>Thomas E. McQuinn</i>	 Iowa Department of Transportation Highway Division	
	STANDARD DESIGN - 30' ROADWAY, 2 SPAN BRIDGES PRETENSIONED PRESTRESSED BULB TEE CONCRETE BEAM BRIDGES ALL SPANS	
	SUPERSTRUCTURE DETAILS 5° SKFW	BT30-SA2-04