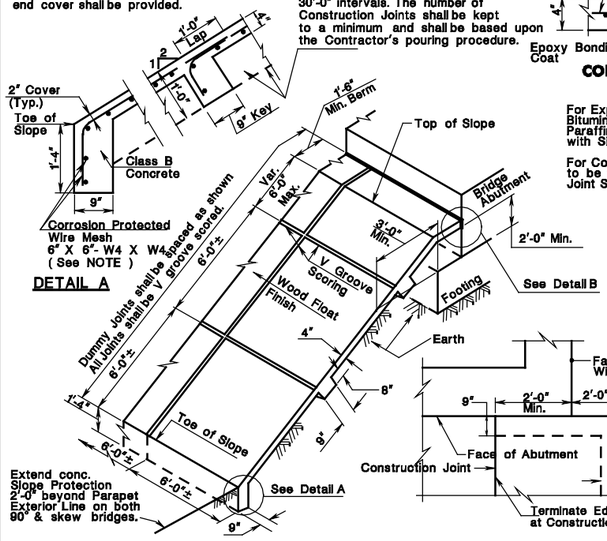
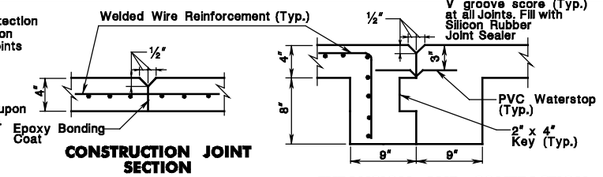
Welded wire fabric shall pass through construction joints. Splices where necessary, shall overlap a minimum of 1'-0". Reinforcement shall not pass through expansion and contraction joints and a minimum of 2" concrete end cover shall be provided.

Edge Beams required at Slope Protection limits & on both sides of Contraction and Expansion Joints. Expansion Joints required at 90'-0" intervals. Contraction Joints required at 30'-0" intervals. The number of Construction Joints shall be kept to a minimum and shall be based upon the Contractor's pouring procedure.



ISOMETRIC SLOPE SKETCH

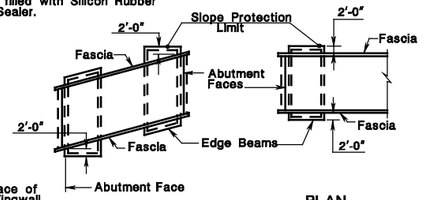


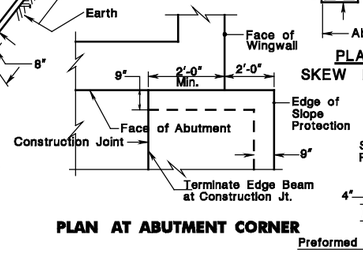
CONSTRUCTION JOINT SECTION

EXPANSION AND CONTRACTION JOINT SECTION

For Expansion Joints use ½" Preformed Bituminous Joint Filler. Contraction Joints Paraffin coated. Upper ½" to be filled with Silicon Rubber Joint Sealer.

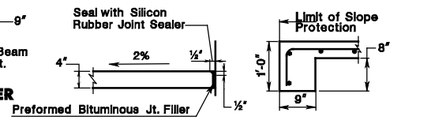
For Construction Joints V Groove to be filled with Silicon Rubber Joint Sealer.





SLOPE PROTECTION LIMITS

PLAN AT ABUTMENT CORNER

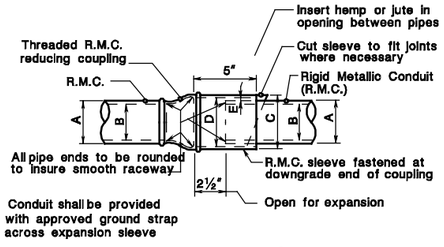


DETAIL B

SECTION – EDGE BEAM

DETAILS OF CONCRETE SLOPE PROTECTION

BCD-504-3.1



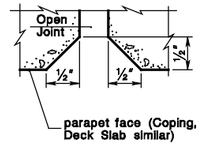
ELEVATION

R. M. C.			SLEEVE			Nominal Reducing Coupling	Clearance
Nom.Dia.	Ext.Dia. A	Int.Dia. B	Nom.Dia.	Ext.Dia. C	Int.Dia. D		E
1½"	1.900	1.610	2½"	2.875	2.469	2½" to 1½"	5/32"
2"	2.375	2.067	3"	3.500	3.068	3" to 2"	11/32"
3"	3.500	3.068	4"	4.500	4.026	4" to 3"	¼"
4"	4.500	4.026	5"	5.563	5.047	5" to 4"	¼"

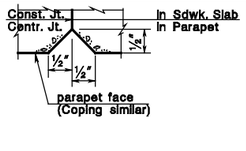
Expansion sleeves shall be installed at all Fixed and Expansion joints and elsewhere as shown or approved. R.M.C. and all fittings shall be hot-dip galvanized.

DETAILS OF R.M.C. EXPANSION SLEEVE

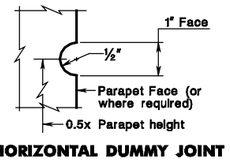
BCD-504-3.3



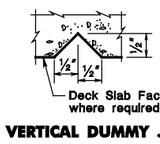
OPEN JOINT



CONTR. OR CONST. JOINT
(Contraction joint paraffin coated)



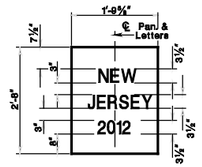
HORIZONTAL DUMMY JOINT



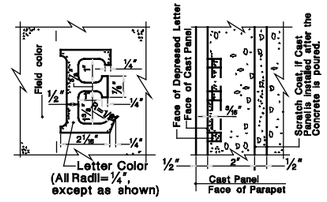
VERTICAL DUMMY JOINT

DETAILS OF PARAPET SCORING

BCD-504-3.4



DETAIL – CAST DATE PANEL (1'-9 5/8")
N.T.S.



ELEVATION SECTION

LETTERING DETAILS
N.T.S.

DATE PANEL NOTES:

Date panels to be cast in one piece with the exposed aggregate as per Specifications. Surface Finish for the Field to be a medium feature exposed aggregate with a reddish-brown coloration. Surface Finish for Letters and Numbers to be a light green crushed quartz. Take care to prevent mortar discoloration of exposed surfaces of the panel. Provide one date panel on right side of the parapet at the entrance end as directed by the RE.

Panel Date to be year of Bridge completion.

DATE PANEL

(TO BE USED ON BRIDGES WITH PYLON)

BCD-504-3.2

SECTION A–A ELEVATION

NUMERAL DETAILS

LEGEND				
YEAR	A (IN.)	B (IN.)	C (IN.)	D (IN.)
2011	1¼	1¼	11½	3¾
2012-2019	1¼	3	13¼	2⅝
2020	3	3	15	2
2022-2030, 2032-2040, 2042-2050	3	3	15	2
2021, 2031, 2041, 2051	3	1¼	13¼	2⅝

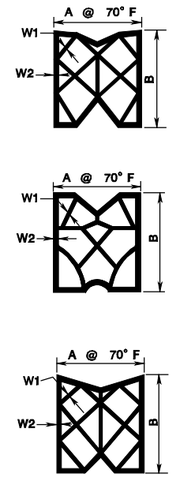
NOTES:

1. DATE to be Year of Completion of Structure.
2. NUMERALS proposed for use to be approved by the RE.
3. COST of the Panel to be included in the Price bid for Concrete containing the Panel.
4. Two (2) Panels required.
5. Provide one numeral panel on right side of the parapet at the entrance end as directed by the RE.

NUMERAL PANEL

(TO BE USED ON ALL OTHER BRIDGES)
N.T.S.

BCD-504-3.6



A = Compressed width of sealer at 70° F.
B = Compressed height of sealer at 70° F.
W1 = Interior membrane minimum thickness.
W2 = Exterior membrane minimum thickness.

PREFOR. ELASTOMERIC COMPRESSION SEALER NOMINAL SIZE (IN.)		A (IN.)	B (IN.)	W1 (min.) (IN.)	W2 (min.) (IN.)
1¾" X 1¾"	(1)	1	(2)	1/16	3/32
2½" X 2½"	(1)	1⅝	(2)	3/32	3/16
4" X 4"	(1)	2⅝	(2)	3/16	¼

Notes:

1. The nominal height of compression seals may vary based on manufacturers specifications. The height may exceed the nominal manufacturers sealer height by not more than ¼".
2. Dimension "B" varies depending on the joint manufacturer. The depth of embedment of the compression seal in the joint shall be set by the fabricator and is equal to the compressed seal height plus ½" (± ⅛").
3. All preformed elastomeric compression seals shall conform * to the material requirements of the NJDOT Standard Specifications for Road and Bridge Construction with current Supplemental Specifications, as modified by the Special Provisions.

* The note should be modified to reflect applicable year and updated Specifications.

DETAILS OF PREFORMED ELASTOMERIC JOINT SEALER

BCD-504-3.5

TYPICAL DETAILS NO. 1

N.T.S.

BCD-504-3

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

BRIDGE CONSTRUCTION DETAILS

BDCPD-01 REVISED BCD-504-3.2 & BCD-504-3.6
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