DESCRIPTION:

ASPHALTIC PLUG EXP. JOINT - DECK PANEL, STEEL GIRDER

DATE REVISED:

11/14/18

1½” WEARING COURSE (ROADWAY ITEM)

PAY LIMITS ITEM 538.6

PAY LIMITS ITEM 403.911 (END OF DECK)

SAWN BITUMINOUS PAVEMENT

ITEM 559.4, ASPHALTIC PLUG EXPANSION JOINT (F)

1½” x 3” x 1’-4” DEPRESSION

CONCRETE

BRIDGE DECK

PARTIAL DEPTH

PRECAST DECK PANEL

1½” x 1” DEEP ASPHALTIC BINDER

2” @ HIGH TEMP. HEAT RESISTANT BACKER ROD

3” @ SPILL PVC SCH 40 DRAIN PIPE

@ 6'-0” O.C. AND AT LOW POINTS.

ITEM 514.5 (RECESS INTO BACKWALL & DECK)

1½” CLOSED CELL EXPANSION MATERIAL

COST SUBSIDIARY TO ITEM 559.4 (SEE SUPPLEMENTAL SPECIFICATION 559) REMOVE 1½” X 3” DEEP OF MATERIAL AFTER ASPHALT PAVEMENT SUPPLEMENTAL SPECIFICATION 559) REMOVE 1½” X 3” DEEP OF MATERIAL AFTER ASPHALT PAVEMENT AND BARRIER MEMBRANE HAVE BEEN REMOVED; INSTALL BACKER ROD AND SEAL OPENING WITH ASPHALTIC BINDER MATERIAL; ALL COSTS SUBSIDIARY TO ITEM 559.4

A = DECK THICKNESS + HAUNCH + FLANGE + 1”

MODIFY TO FIT PROJECT

ASPHALTIC PLUG EXPANSION JOINT
(APPROACH SLAB - EXPANSION END)

NOT TO SCALE

BEARING STRIP DETAIL

NOT TO SCALE
DESCRIPTION:
ASPHALTIC PLUG EXP.
JOINT - STEEL GIRDER

DATE REVISED:
2/8/16

1/4" WEARING COURSE (ROADWAY ITEM)

PAY LIMITS ITEM 538.6

PAY LIMITS ITEM 403.911
(END OF DECK)

SPOILED BITUMINOUS PAVEMENT

1/2" x 3" x 1'-4" DEPRESSION

2" 6" 6" 2" 2"

ITEM 559.4, ASPHALTIC
PLUG EXPANSION JOINT (F)

© BEARING

3/8" x 1" DEEP
ASPHALTIC BINDER

3" Ø SPLIT PVC SDW 40 DRAIN PIPE
ø 6"-Ø7 D.C. AND AT LOW POINTS.
(SUBS. TO ITEM 520.0302)

1/2" CLOSED CELL EXPANSION MATERIAL
(COST SUBSIDIARY TO ITEM 559.4) (SEE
SUPPLEMENTAL SPECIFICATION 559) REMOVE 1/2" x
3" DEEP OF MATERIAL AFTER ASPHALT PAVEMENT
AND BARRIER MEMBRANE HAVE BEEN REMOVED. INSTALL
BACKER ROD AND SEAL OPENING WITH ASPHALTIC BINDER
MATERIAL. ALL COSTS SUBSIDIARY TO ITEM 559.4

A = DECK THICKNESS + HAUNCH + FLANGE + 1"

ASPHALTIC PLUG EXPANSION JOINT
(APPROACH SLAB - EXPANSION END)
NOT TO SCALE

MODIFY TO FIT PROJECT

BEARING STRIP DETAIL
NOT TO SCALE
NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:

ASPHALTIC PLUG EXP.

JOINT - CONCRETE GIRDER

DATE REVISED:

2/8/16

1½" WEARING COURSE (ROADWAY ITEM)

PAY LIMITS ITEM 538.6

ITEM 520.0102 ASPHALTIC BINDER 1½" x 1" DEEP (INCLUDED IN ITEM 559.4)

ITEM 520.0302 APPROACH SLAB

CONCRETE BEAM PRESTRESSED FINISHED GRADE

PAY LIMITS ITEM 403.911 (END OF DECK)

ITEM 559.4 ASPHALTIC PLUG EXPANSION JOINT (F)

GALVANIZED PLATE 1½" x 8" WITH LOCATING PIN (INCLUDED IN ITEM 559.4)

3" @ 6'-0" O.C. AND AT LOW POINTS

3" SPLIT PVC SCH 40 DRAIN PIPE # 6 - 0" D.C. AND AT LOW POINTS.

1½" CLOSED CELL EXPANSION MATERIAL (CONTINUOUS) (SUBSIDIARY TO ITEM 520.0302)

3" x 3½" CLOSED CELL EXPANSION MATERIAL (CONTINUOUS) (SUBSIDIARY TO ITEM 520.0302)

MODIFY TO FIT PROJECT
DESCRIPTION: ASPHALTIC PLUG EXP. JOINT - JOINT REHAB

DATE REVISED: 11/14/18

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGE DESIGN

PAY LIMITS ITEM 538.6
PAY LIMITS ITEM 403.911

ITEM 559.4. ASPHALTIC PLUG EXPANSION JOINT (F)
WITH 3/4" x 8" GALVANIZED PLATE, LOCATING PIN AND 2" Ø HIGH TEMPERATURE HEAT RESISTANCE BACKER ROD

ITEM 541.5 (RECESS INTO BACKWALL & DECK)
1/4" x 3" x 1"-6" DEPRESSION

RECONSTRUCTED DECK END HAUNCH
(PAID UNDER ITEM 520.0201)

1'-0" WEARING COURSE (ROADWAY ITEM)

SAVED BITUMINOUS PAVEMENT

ITEM 559.4, ASPHALTIC PLUG EXPANSION JOINT (F)

WITH 3/4" x 8" GALVANIZED PLATE, LOCATING PIN AND 2" Ø HIGH TEMPERATURE HEAT RESISTANCE BACKER ROD

PROPOSED STUB BACKWALL PAID UNDER ITEM 520.0201
STUB BACKWALL MUST BE AT SAME PROFILE GRADE AND FLUSH (HEIGHT) WITH DECK TO ALLOW FOR 1/2" x 8" GALVANIZED PLATE TO SIT EVENLY.

VARIES IN THICKNESS
(SEE ROADWAY PLANS)

PAY LIMITS, ITEM 304.1
(2" MIN. - 3" MAX. BEHIND STUBWALL)

ITEM 304.3 CONSTRUCTED IN 8" MAX. LAYERS
COMPACT TO 100%

3" Ø SPLIT PVC SCH 40 DRAIN PIPE @ 6'-0" O.C. AND AT LOW POINTS.

SUBS. TO ITEM 520.0201

EXISTING STRINGER OR GIRDER

EXISTING DECK

EXISTING BRIDGE HAUNCH

REMOVAL (SEE ABUTMENT LIMITS FOR BACKWALL)

LIMITS FOR BACKWALL REMOVAL (SEE ABUTMENT SHEETS)

SEE BEARING STRIP DETAIL

ASPHALTIC PLUG EXPANSION JOINT
(STUB WALL - EXPANSION END)

3 - 1" Ø PVC DRAINS AT LOW END ONLY
(TYPICAL BOTH CURB LINES). SET PIPES TO DISCHARGE AWAY FROM GIRDERS AND ABUTMENT SEAT. PROVIDE BREAKS THROUGH MEMBRANE AND SEAL. ATTACH DRAIN PIPES TO THE BOTTOM FLANGE OF GIRDERS WITH CLIPS AND EXTEND 6" MINIMUM BELOW THE BOTTOM OF STRUCTURAL STEEL. ALL COSTS SUBSIDIARY TO ITEM 520.0201.

3 - 1"-6" PVC DRAINS AT LOW END ONLY
(TYPICAL BOTH CURB LINES). SET PIPES TO DISCHARGE AWAY FROM GIRDERS AND ABUTMENT SEAT. PROVIDE BREAKS THROUGH MEMBRANE AND SEAL. ATTACH DRAIN PIPES TO THE BOTTOM FLANGE OF GIRDERS WITH CLIPS AND EXTEND 6" MINIMUM BELOW THE BOTTOM OF STRUCTURAL STEEL. ALL COSTS SUBSIDIARY TO ITEM 520.0201.

ITEM 520.0201, CONCRETE CLASS AA
ABOVE FOOTINGS (REFER TO ABUTMENT SHEETS FOR REMOVAL AND RECONSTRUCTION)

A = DECK THICKNESS + HAUNCH + FLANGE + 1"

ASPHALTIC PLUG EXPANSION JOINT
(STUB WALL - EXPANSION END)

1/16" CLOSED CELL EXPANSION MATERIAL
(COST SUBSIDARY TO ITEM 559.4)

SEE SUPPLEMENTAL SPECIFICATION 559) REMOVE 1/2" x 3" DEEP OF MATERIAL AFTER ASPHALT PAVEMENT AND BARRIER MEMBRANE HAVE BEEN REMOVED. INSTALL BACKER ROD AND SEAL OPENING WITH ASPHALTIC BINDER MATERIAL. ALL COSTS SUBSIDIARY TO ITEM 559.4.

BEARING STRIP DETAIL

BEARING STRIPS
(RUBBER BACKED UHMW-PE, 3/4" THICK MIN. 1/2" MAX.)
(SEE QUALIFIED PRODUCTS LIST, SECTION 520 FOR MATERIALS & BONDING AGENT) (ALL COSTS SUBSIDIARY TO ITEM 520.70XX)

BOND RUBBER BACKED SIDE TO TOP OF DECK STRIP FOR FULL LENGTH OF DECK STRIP SECTION

DECK HAUNCH STRIP:
BOND RUBBER BACKED SIDE TO TOP OF DECK STRIP FOR FULL LENGTH OF DECK STRIP SECTION

DECK STRIP:
EMBED "D" WIDE SECTION (RUBBER SIDE UP) INTO DECK HAUNCH FOR THE ENTIRE WIDTH OF DECK

BACKWALL STRIP:
GRIND TOP OF BACKWALL TO A SMOOTH FLAT SURFACE AND BOND RUBBER BACKED SIDE OF "B" WIDE SECTION TO TOP OF BACKWALL FOR THE ENTIRE LENGTH OF DECK AND BACKWALL CONTACT AREA

BEARING STRIPS
(SEE QUALIFIED PRODUCTS LIST, SECTION 520 FOR MATERIALS & BONDING AGENT) (ALL COSTS SUBSIDIARY TO ITEM 520.70XX)

RUBBER BACKED UHMW-PE, 3/4" THICK MIN. 1/2" MAX.
(SEE QUALIFIED PRODUCTS LIST, SECTION 520)

ITEM 520.0201, CONCRETE CLASS AA
ABOVE FOOTINGS (REFER TO ABUTMENT SHEETS FOR REMOVAL AND RECONSTRUCTION)

A = DECK THICKNESS + HAUNCH + FLANGE + 1"

MODIFY TO FIT PROJECT
DESCRIPTION:
ASPHALTIC PLUG EXP.
JOINT - CURB DETAIL

DATE REVISED:
2/8/16

SECTION A-A

ASPHALTIC PLUG EXPANSION JOINT (F)
ITEM 559.4 (CURB DETAIL)

MOODIFY TO FIT PROJECT

SECTION A-A

ASPHALTIC PLUG EXPANSION JOINT (F)
ITEM 559.4 (U-BACK WINGWALL CURB DETAIL)