AHEAD
ON STATIONING

θ_1

¢ BEARING RECESS   ¢ BEARING RECESS

¢ GIRDER

θ_2

P_1 L_L P_2 L_T

PLAN LENGTH
(ALONG GIRDER GRADE)

END 1   END 2

GIRDER SCHEDULE LEGEND

L_L AND L_T ARE SHIPPING SUPPORT LOCATIONS AT
LEADING AND TRAILING ENDS, RESPECTIVELY.

¢ GIRDER

2"   4" (MIN.)

TOP OF GIRDER

F_0

C.G. TOTAL
HARPED STRANDS

1 2
3 4
5 6
7 8
9 10
11

2" (TYP.)

ODD STRAND (MAY
BE ADJUSTED TO
EITHER SIDE OF WEB)

STRAND PATTERN
AT GIRDER END

HARPED STRAND LOCATION SEQUENCE
SHALL BE AS SHOWN ①, ② ETC.

¢ GIRDER

C.G. TOTAL
STRAIGHT
STRANDS

HARPED STRAND
BUNDLES (TYP.)

C.G. TOTAL
HARPED STRANDS

2 SPA. @ 2" = 4"

E

F¢

2"   4 SPA @ 2" = 8"   5"   4 SPA @ 2" = 8"   2"

STRAND PATTERN
AT ¢ SPAN

STRAIGHT STRAND LOCATION SEQUENCE
SHALL BE AS SHOWN ①, ② ETC.

G3 #4 @ 9" MAX. AND
G12 #6 @ 5" MAX. EXT. GIRDERS OR G13 #6 @ 8" MAX. INT. GIRDERS

1'-0" MIN.   2B (5'-0" MAX)   WELD TIE SPACING
3'-6" MAX.   (TYP.)

PROVIDE 6"∅ HOLE THROUGH
FLANGE FOR DIAPHRAGM
PLACEMENT. ADJUST REINF.
STEEL AS REQUIRED.

END OF TOP FLANGE

¢ GIR. 1½" CLR.

END OF WEB
AND BOTTOM
FLANGE

3⅛"

5'-0"

C   D

1" (TYP.)
4" (TYP.)

1'-0" (TYP.)

¢ DIAPHRAGM

DIAPHRAGM

GIRDER PLAN

SPLAY G3 #4 AND
G12 #6 OR G13 #6

END TYPE A SHOWN, END TYPE B SIMILAR.
OTHER REINFORCEMENT NOT SHOWN FOR CLARITY.

OMIT WELD TIES AND
6"∅ HOLE ON EXTERIOR
SIDE OF EXTERIOR GIRDER

SYMM. ABT. ¢ JOINT

2³⁄₁₆"   ³⁄₁₆" TO ¼"

2"∅ x 4"
SMOOTH BAR

2⅛" 2⅝"   2⅛"

¼ (⅛)

2 ~ ½"∅ x 6" WELDED
SHEAR STUD

BAR 3 x ½ x 0'-6

¢ STUD
INTERSECTION
WITH ¢ BAR

FILL KEYWAY
WITH GROUT

ALTERNATE 1

SYMM. ABT. ¢ JOINT

½" 2½" ³⁄₁₆" TO ¼"

BAR 1½ x 1 x 0'-4

FILL KEYWAY
WITH GROUT

¼

2"

2 ~ ½"∅ x 5" WELDED
SHEAR STUD OR
#4 x 2'-0" MIN. REBAR

∟ 2 x 2 x ¼ x 0'-6"

¼ 1½ TYP.

ALTERNATE 2

SECTION C
WELD TIE

SYMM. ABT. ¢ JOINT

³⁄₁₆" TO ¼"
⅞"
1¼"
1"

2⅛" 3⅝"

FILL KEYWAY
WITH GROUT

FOAM BACKER
ROD

ALTERNATE 1

SYMM. ABT. ¢ JOINT

³⁄₁₆" TO ¼"
½"
2"
1"

2" 2"   2"

FILL KEYWAY
WITH GROUT
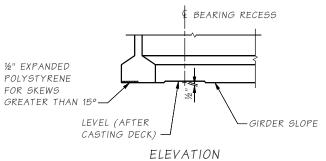
FOAM BACKER
ROD

ALTERNATE 2

SECTION D
KEYWAY

¾" CHAMFER ON
FLANGE FOR SKEWS
GREATER THAN 15°

½" EXPANDED
POLYSTYRENE
FOR SKEWS
GREATER THAN 15°

¾" CHAMFER ON
WEB FOR SKEWS
GREATER THAN 15°

¢ BEARING RECESS

90°

¢ GIRDER

BEARING WIDTH + 2" - SEE
"MISC. BRG. DETAILS" SHEET

PLAN

¢ BEARING RECESS

½" EXPANDED
POLYSTYRENE
FOR SKEWS
GREATER THAN 15°

LEVEL (AFTER
CASTING DECK)

GIRDER SLOPE

ELEVATION

BEARING RECESS AND BOTTOM
FLANGE SPALL PROTECTION
DETAIL

M:\STANDARDS\Girders\Deck Bulb Tee\DBT DETAILS 2 OF 2.MAN

Bridge Design Engr.
Supervisor
Designed By
Checked By
Detailed By
Bridge Projects Engr.
Prelim. Plan By
Architect/Specialist

REGION NO.   STATE
10   WASH.

FED. AID PROJ. NO.   SHEET NO.   TOTAL SHEETS

JOB NUMBER

DATE   REVISION   BY   APPD

BRIDGE
AND
STRUCTURES
OFFICE

Washington State
Department of Transportation

STANDARD
PRESTRESSED CONCRETE GIRDERS

DECK BULB TEE GIRDER
DETAILS 2 OF 2

Fri Jul 10 14:10:36 2020