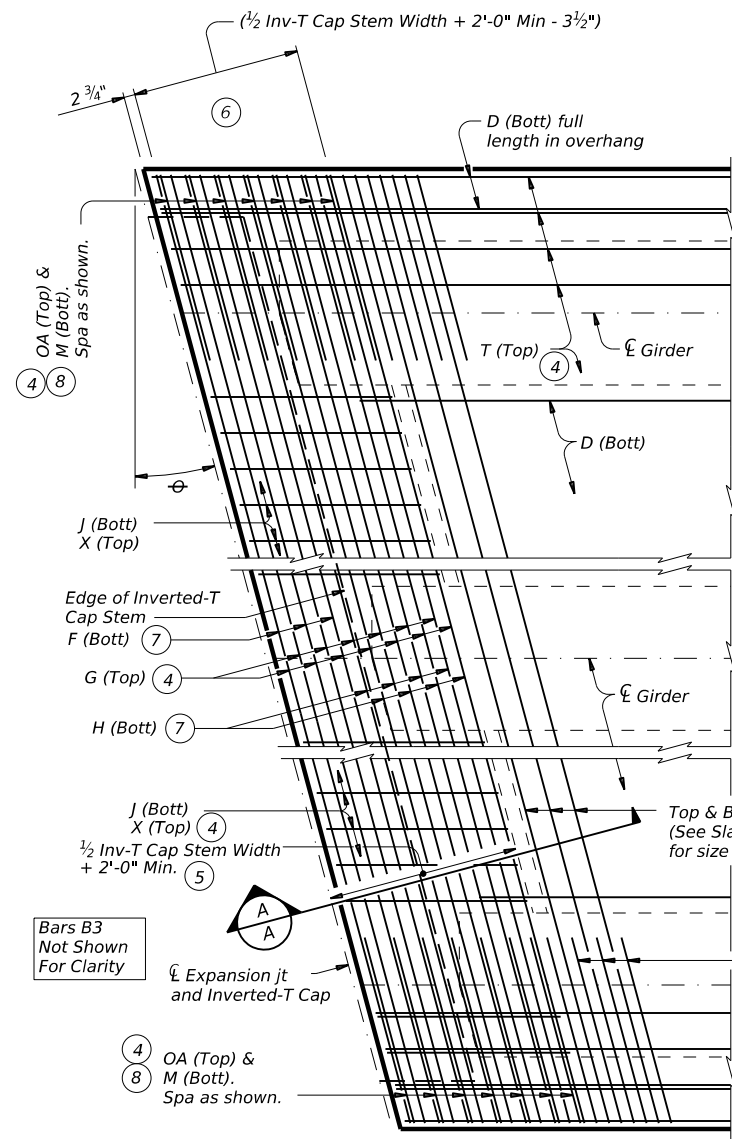
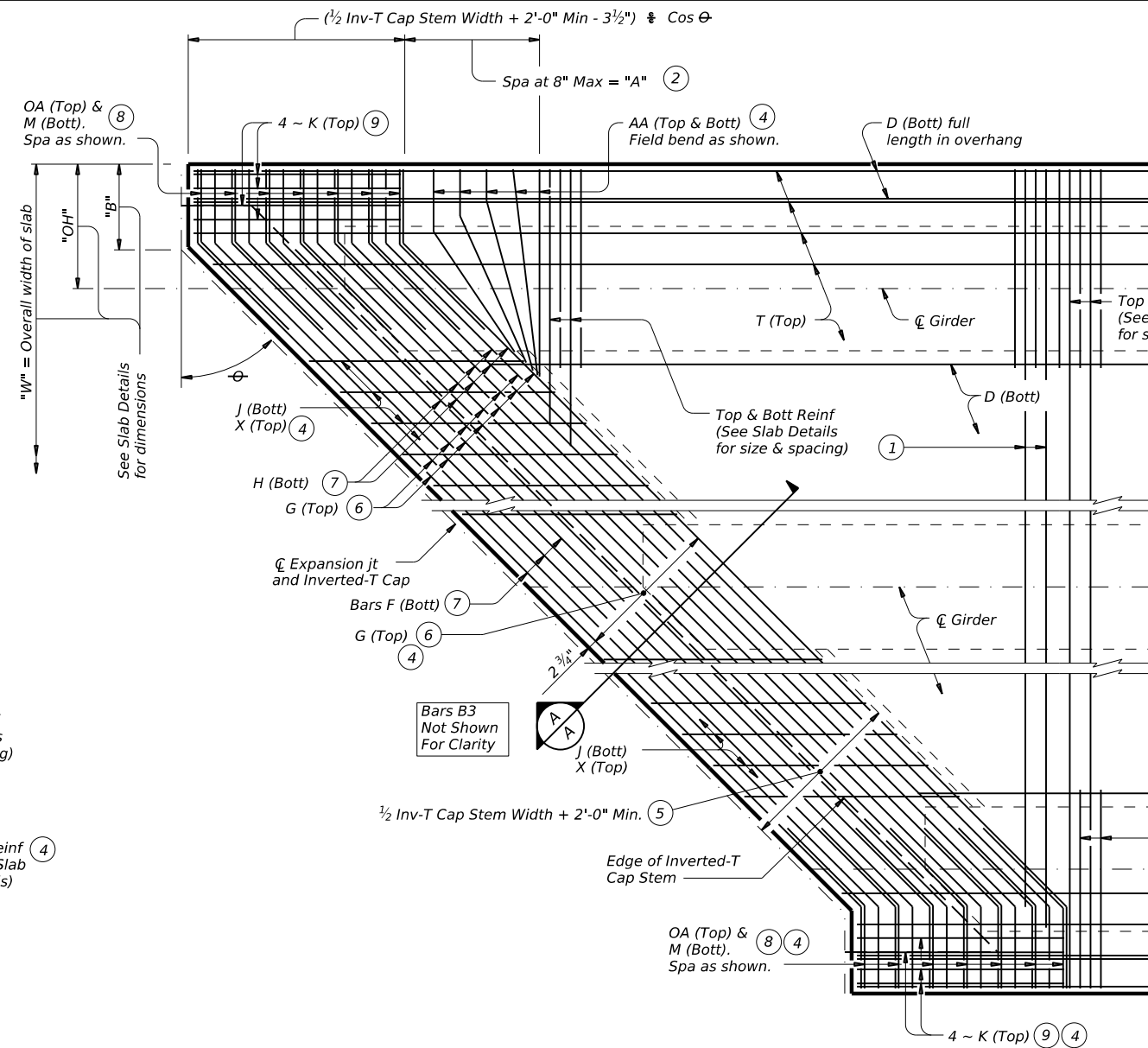


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PARTIAL PLAN FOR SLABS WITHOUT BREAKBACK
(At Inverted-T Cap Bents)



PARTIAL PLAN FOR SLABS WITH BREAKBACK
(At Inverted-T Cap Bents)

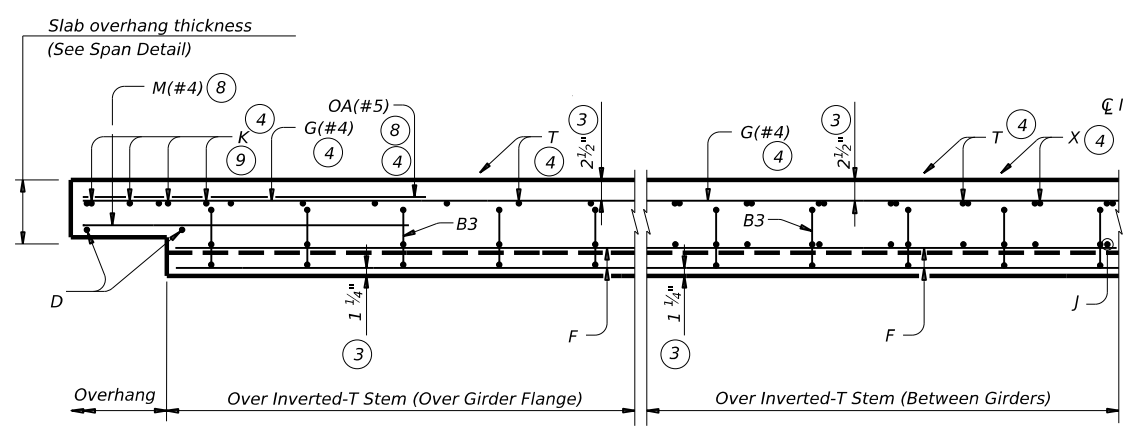
Refer to IGTS, or SGTS or SBMS if Applicable, For Bar Details.

- 1 End top transverse reinforcing steel at inside Bar G. End bottom transverse reinforcement steel 1'-0" beyond inside Bar G.
- 2 $A = ("OH" + 2.333 \cdot "B") \times \tan \theta$
- 3 Provide clear cover as indicated unless otherwise shown on Span Details.
- 4 Top mat bar orientation as shown maybe reversed. See General notes.
- 5 Thickened slab end dimensioned perpendicular to centerline of inverted-T stem.
- 6 Space Bars G at 3 1/2" max spacing.
- 7 Space Bars F over Inverted-T Cap at 12" max spacing. Space Bars H at 3 1/2" max spacing. Bars H may rest on top of girders.
- 8 Match every other Bar G
- 9 Provide only for slabs with breakback

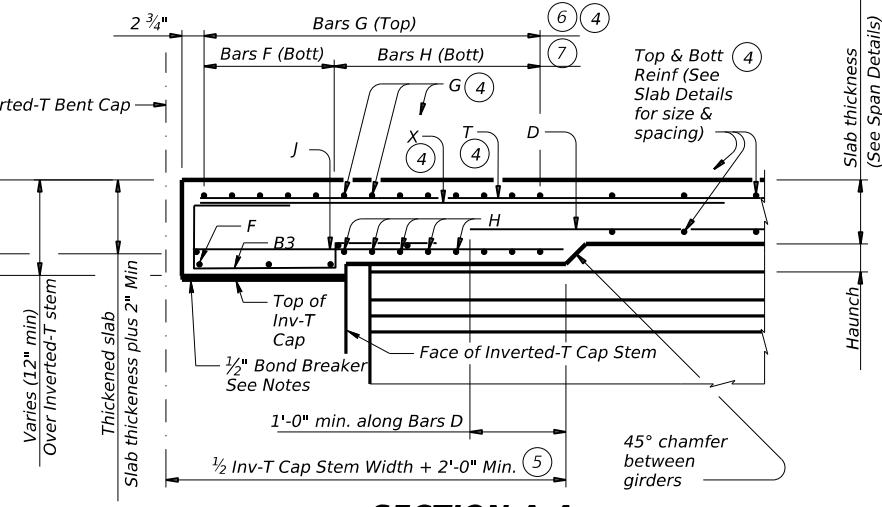
GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.
Details as shown on this standard are applicable only to Concrete I-Girder, Steel I-Girder, or Steel I-Beam bridges.
These details are to be used in conjunction with the Span Details and PCP standard (if prestressed concrete panels are used).
Option 2 from PCP standard is not permitted to be used with these details.
Refer to IGTS Standard, or SGTS or SBTS Standard if applicable, for reinforcing bar details not shown.
Orientation of top mat reinforcing steel (Bars A/T, G/T&X) including overhang bars (K, AA, OA) may be reversed from details shown. Match orientation as shown on bridge span details.
See General Notes on Sheet 2 of 2 for bond breaker requirements.

MATERIAL NOTES:
Provide Grade 60 reinforcing steel.
Provide bar laps, where required, as follows:
Uncoated ~ #4 = 1'-7"
Epoxy Coated ~ #4 = 2'-5"

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing bar dimensions shown are out-to-out of bar.



TRANSVERSE SECTION
(Showing Above Inverted-T Cap Stem)



SECTION A-A
(Showing with 2" and more of haunch)
(At Inverted-T Cap Bents)

HL93 LOADING SHEET 1 OF 2

Texas Department of Transportation
Bridge Houston District Standard

SINGLE SEALED EXP JOINT OVER INV-T BENT CAP

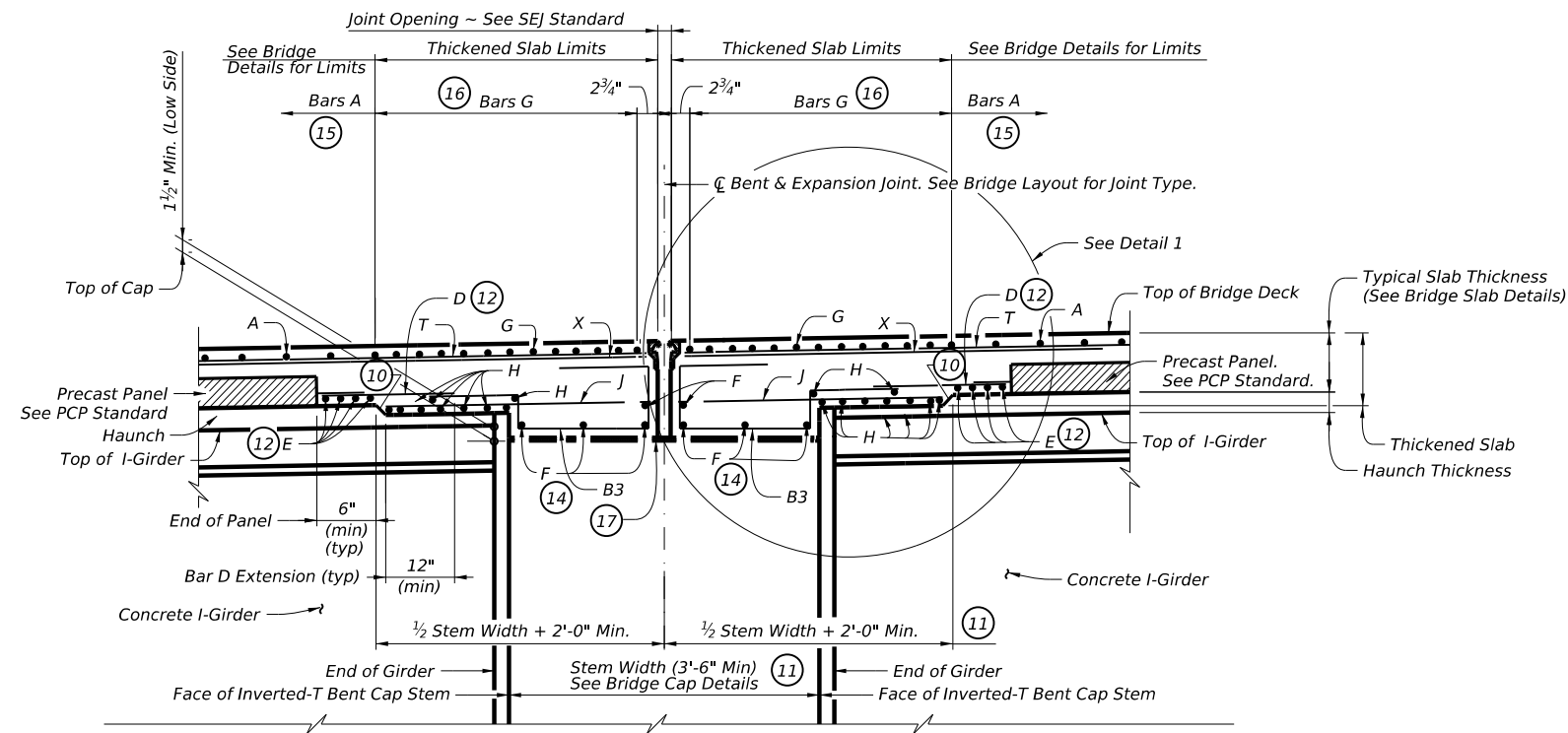
SSEJ-INV-T-25 (HOU)

FILE: SSEJ-INV-T-25(HOU).DGN	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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DIST	COUNTY			SHEET NO.

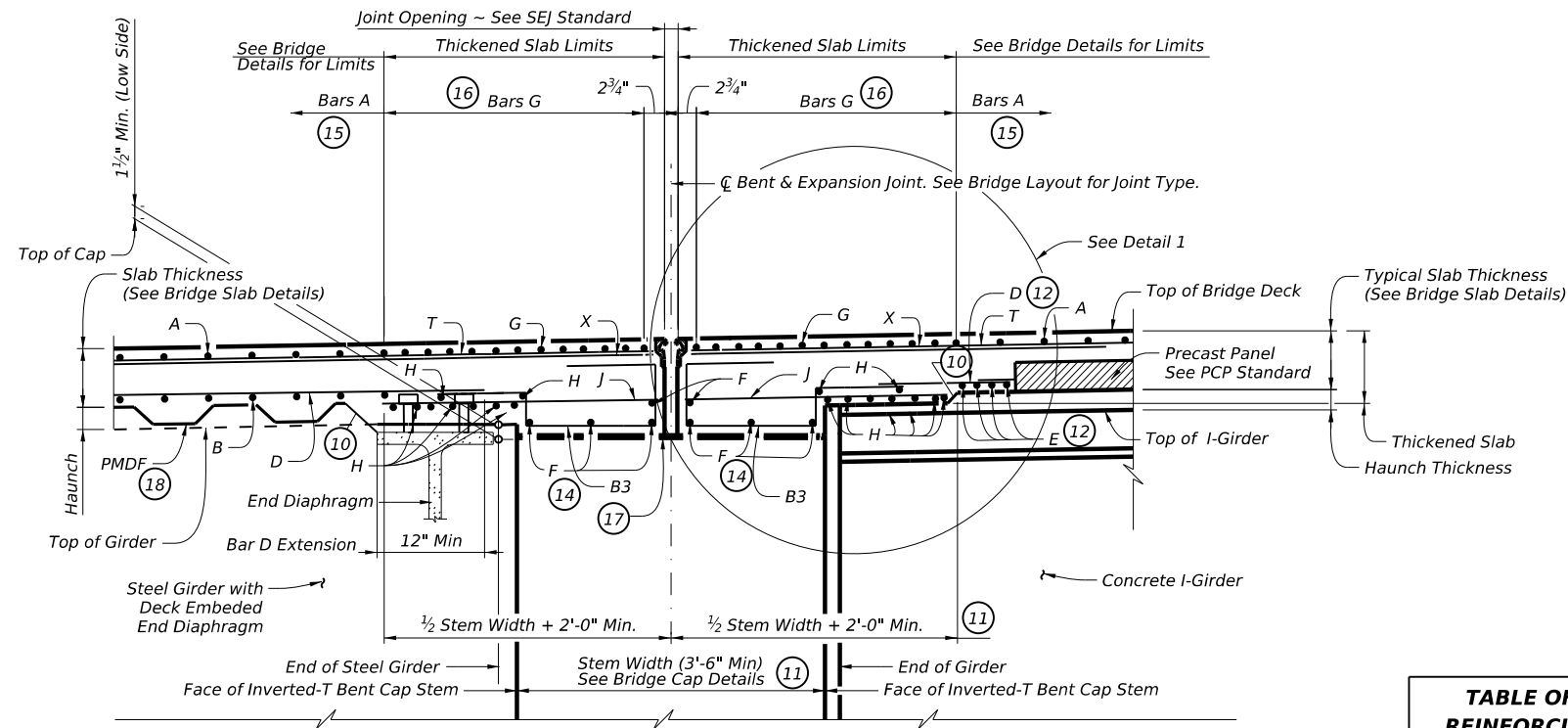
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**SHOWING EXPANSION JOINTS
CONCRETE I-GIRDER SPAN TO CONCRETE I-GIRDER SPAN**



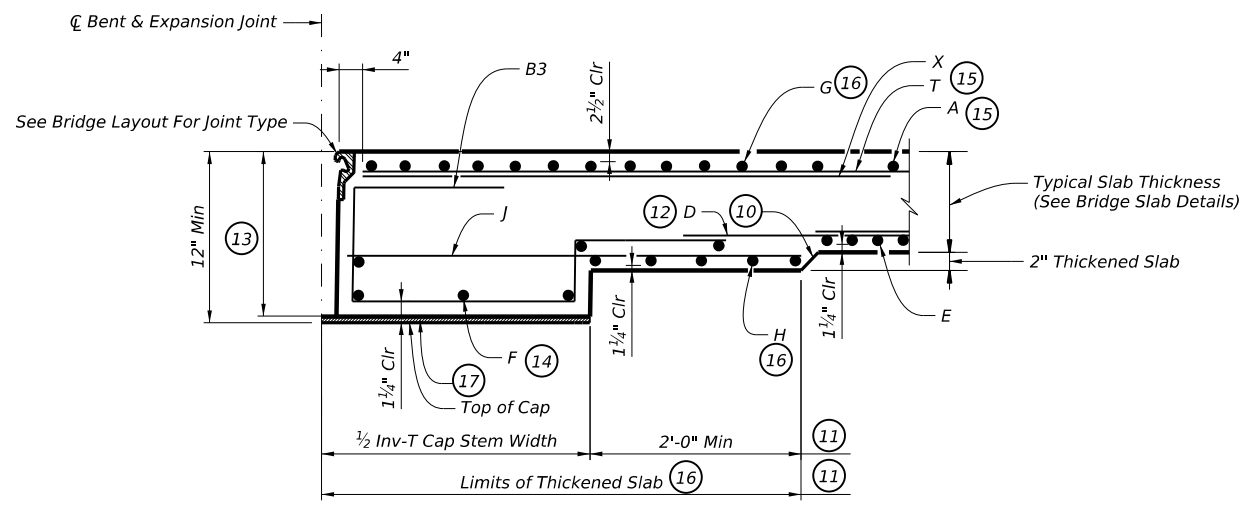
**SHOWING EXPANSION JOINTS
STEEL I-BEAM/GIRDER SPAN TO CONCRETE I-GIRDER SPAN**

REINFORCEMENT OVER INV-T BENTS

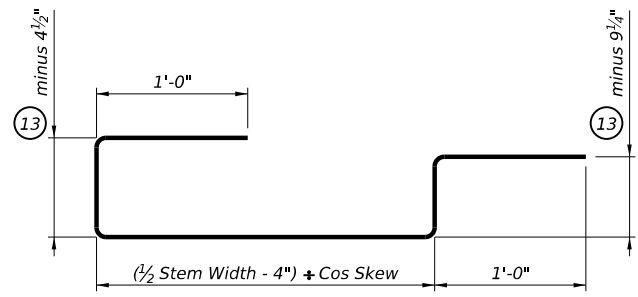
With a single SEJ at centerline
Refer to details shown on IGMS or SBMS/SGMS standards for details when two joints are required per plans.

TABLE OF REINFORCING STEEL		
BAR	SIZE	MAX SPA (IN)
B3	#5	12
F	#4	12
X	#5	9

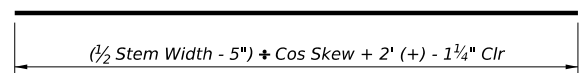
Max Spa as listed unless otherwise shown in plans.



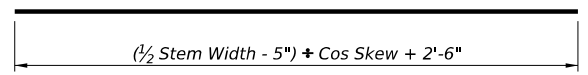
**DETAIL 1
Half section**



BARS B3
Orientation matches Bars D & J



BARS J
Orientation matches Bars D & T



BARS X
Lap with Bars T

- 10 Provide 45° chamfer between girders (typ).
- 11 Dimensioned perpendicular to centerline of inverted-T cap.
- 12 See PCP Standard for bar details.
- 13 Dimension varies based on girder haunch. Adjust Bars B3 dimensions to maintain clearance between bar and top of cap.
- 14 Provide additional Bars F for caps wider than 4ft. Space Bars F at 12" max.
- 15 Refer to Bridge Slab Details for Bars A and T spacing. Refer to Bridge Slab Details if top reinforcing steel mat orientation differs than as shown.
- 16 See IGTS, or SBTS or SGTS if applicable, for bar details and spacing. Adjust number of Bars G to maintain spacing in limits shown.
- 17 1/2" thick asphaltic fiber board bond breaker. See General Notes.
- 18 Showing PMDF. PCP Panels maybe substituted throughout span if allowed on bridge details. PCP Option 2 is not permitted for this detail.

GENERAL NOTES:

- Provide details as shown on this standard when referenced on Bridge Details Slab Plan Sheets. Reference IGMS and IGTS standards with modifications shown on these sheets. Reference SGMS and SGTS or SBMS and SBTS standards with modifications shown on these sheets if applicable.
- Details as shown on this standard are applicable only to Concrete I-Girder, Steel I-Girder, or Steel I-Beam bridges.
- See Slab Details for sizing and spacing of Bars A & T.
- See IGTS, or SGTS or SBTS if applicable, standard for sizing and spacing of Bars G, H, J, M, P, T, & OA.
- See PCP Standard for sizing and spacing of Bars D & E and for panel placement.
- Use of PCP Option 2 is not allowed in locations using this detail.
- Place Bars F oriented parallel to the centerline bent. Bars F shall be the same length as Bars H.
- Place Bars B3 oriented parallel to the girders and to Bars D.
- Place Bars J and X between girder flanges only.
- Bars RD as shown on CRJ-ITB standard maybe omitted in concrete rails at locations with a single expansion joint.
- Provide asphaltic fiberboard bond breaker for full area on top of cap stem. Seal all board joints with flashing or tape compatible with board and concrete pour. Penetrations through bond breaker material are not permitted. Contractor may adhere bond breaker board to top of cap with compatible adhesive. Contractor must ensure bond breaker material is free of defects, including but not limited to warping, splintering, gaps, or holes up until deck pour is completed.
- Payment for additional materials and placement as shown on these details, as well as thickened slab details shown in IGTS SBTS, and SGTS, are subsidiary to payment item 422.
- Sealed Expansion Joint is paid for via item 454.



**SINGLE SEALED EXP JOINT
OVER INV-T BENT CAP**

SSEJ-INV-T-25 (HOU)

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