



SPANDREL TO COLUMN CONNECTION

DESIGN

- Resists Torsional Forces Induced By Double Tee Loading
- Horizontal Vehicle Impact Force
- Allows Thermal Moment

PRODUCTION

- Simple
- Adequate Tolerance is Provided by Oversized Sleeve Through Column

ERECTION

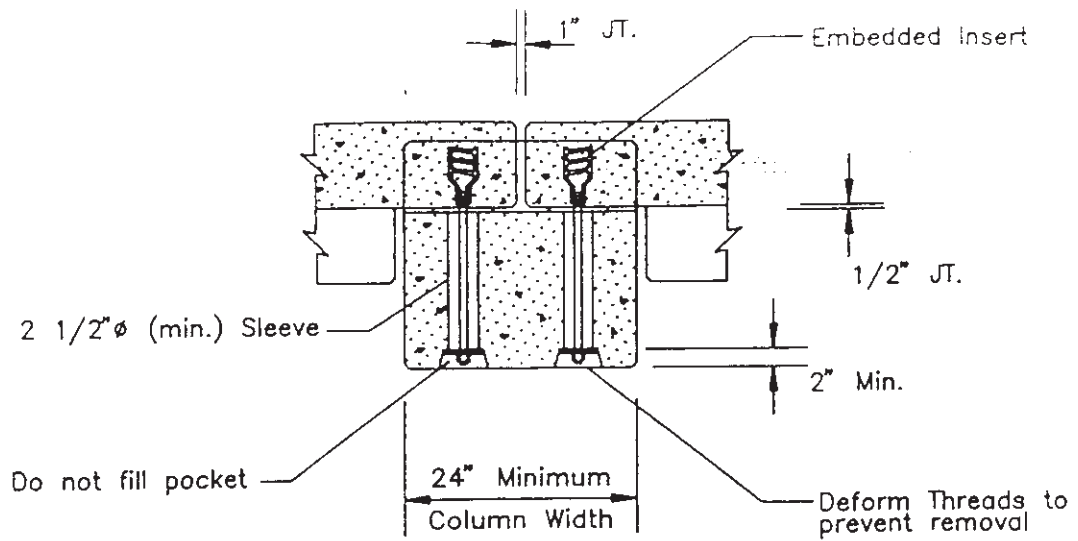
- Quick
- No Welding Required
- Minimal Panel Alignment

DURABILITY

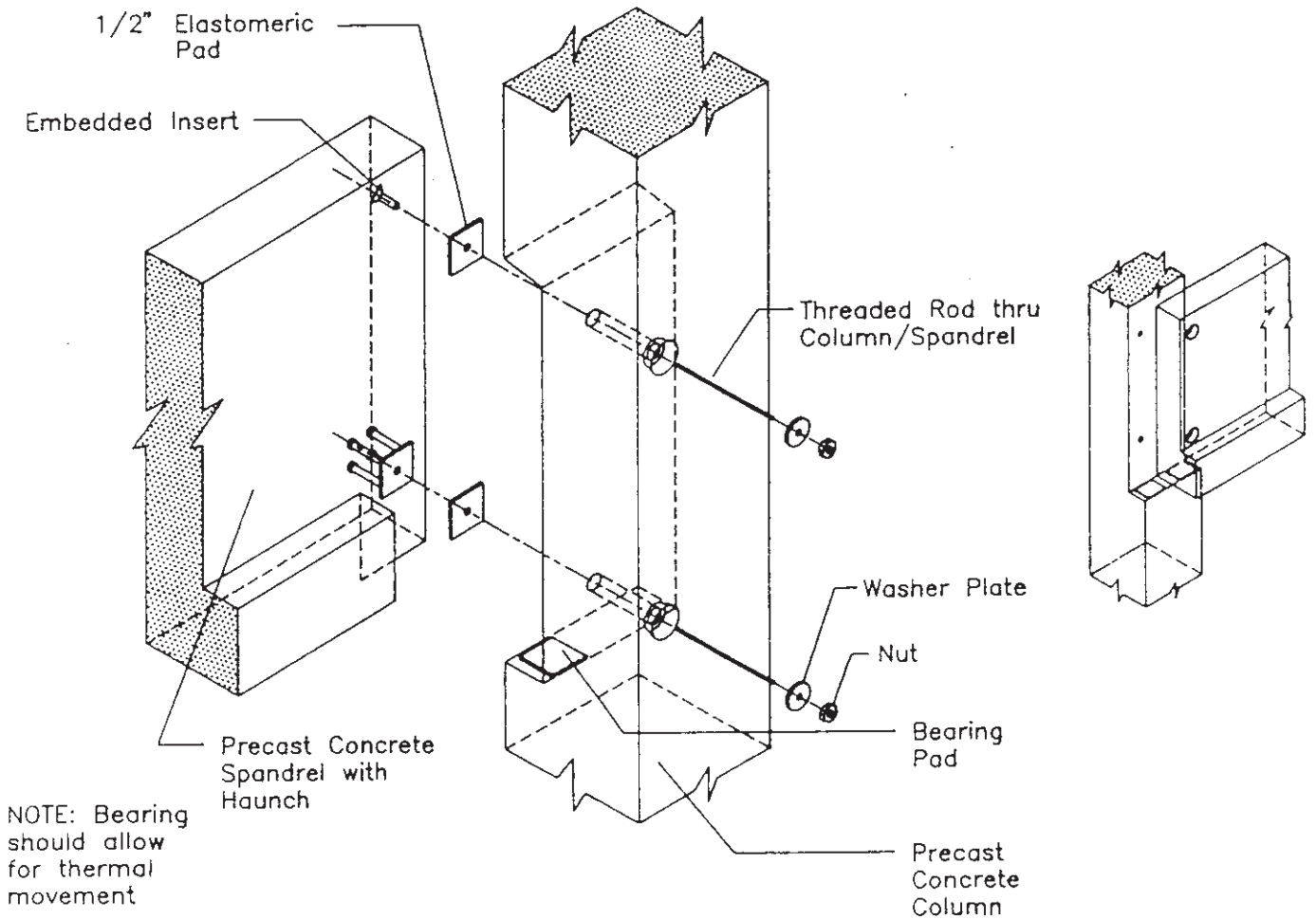
- Connection Is Recessed
- Connection is Galvanized

VARIATIONS

- Angle or Plate Connection With Bolts
- Angle or Plate Connection With Welds



Plan Section



Spandrel to Column Connection



DOUBLE TEE TO SPANDREL BEAM

DESIGN

- Wind and Earthquake Loads Transferred Into Lateral Load Resisting System
- Transfer Of Vertical Loads Into Load Bearing System
- Provides Lateral Support To Framing System
- Transfers Vehicle Impact To Floor System

PRODUCTION

- Simple
- Adequate Tolerance Is Provided By Plates

ERECTION

- Quick
- Welding Of Plates Can Be Accomplished After Member Is Set
- Double Tee Alignment After Release From Crane But Prior To Welding

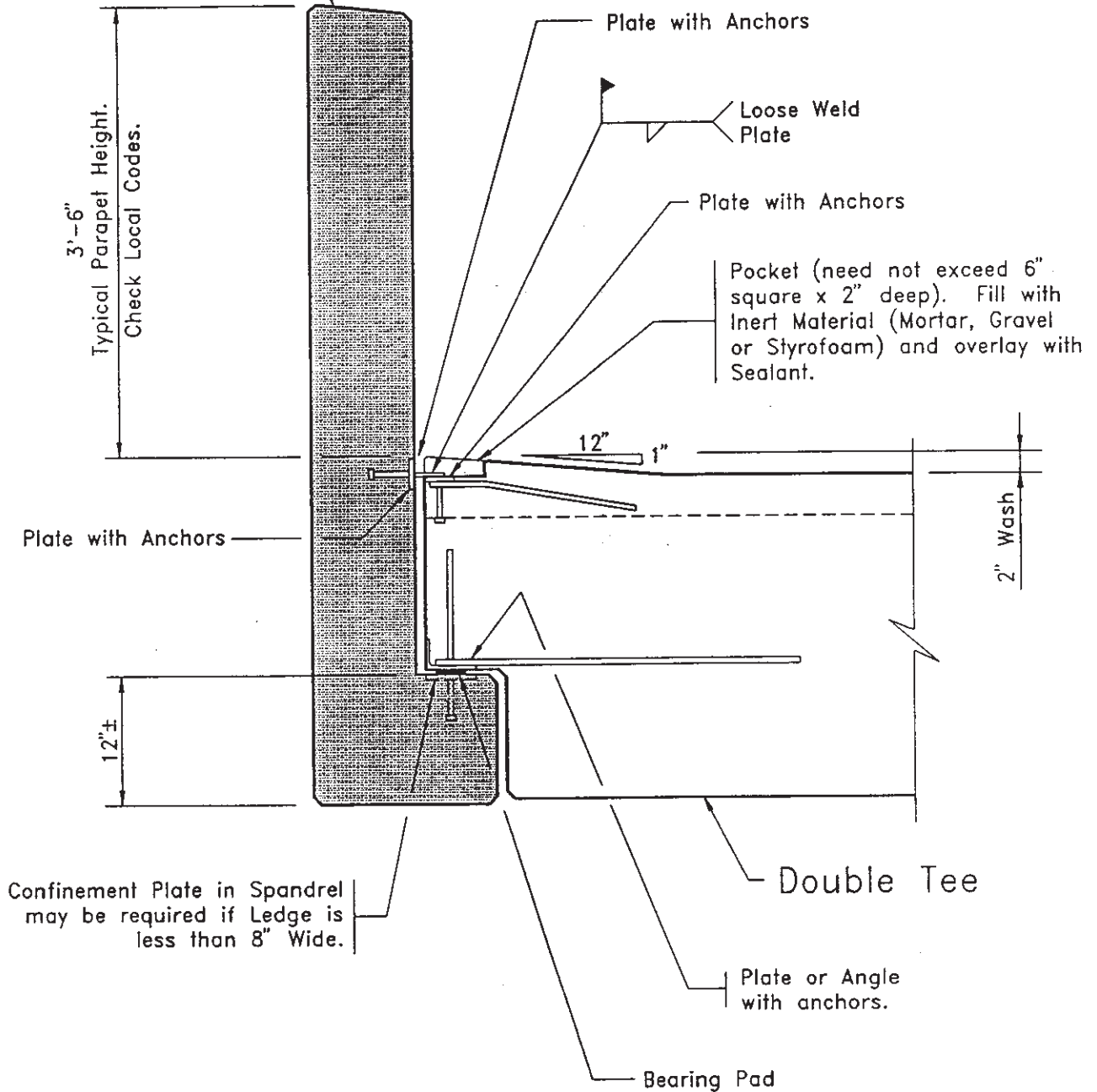
DURABILITY

- Wash Directs Water Away From Connection
- Connection Pocket Is Filled With Sealant
- Connection Is Covered by C.I.P. Swale or Curb

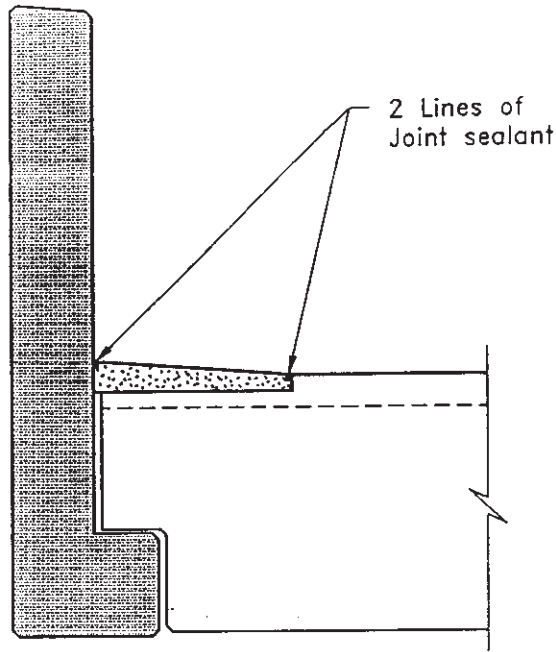
VARIATIONS

- Connection is Covered by C.I.P. Wash or Curb
- Pocketed Spandrel

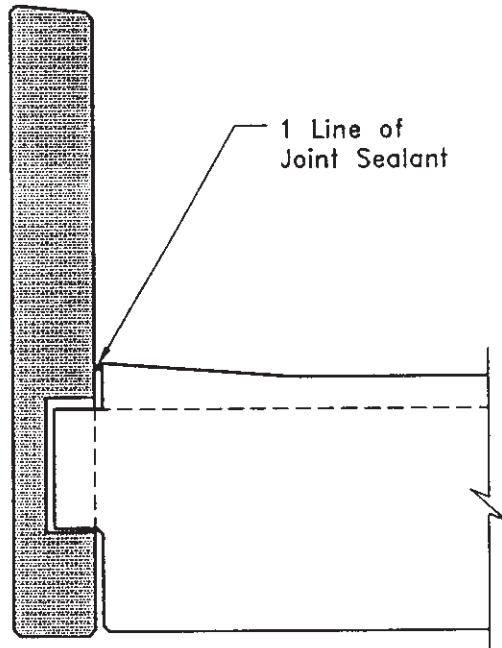
Spandrel Beam



Double Tee to Spandrel Beam Connection



① C.I.P. WASH OVER DOUBLE TEE



② POCKETED SPANDREL



DOUBLE TEE FLANGE TO SPANDREL OR SHEER WALL

DESIGN

- Transfer In-Plan Deck Forces
- Resists Horizontal Vehicle Impact Force
- Provides Load Stability to Unbraced Element
- Plate Thickness Should Accommodate Vertical Deflection

PRODUCTION

- Adequate Tolerance Provided By Plates

ERECTION

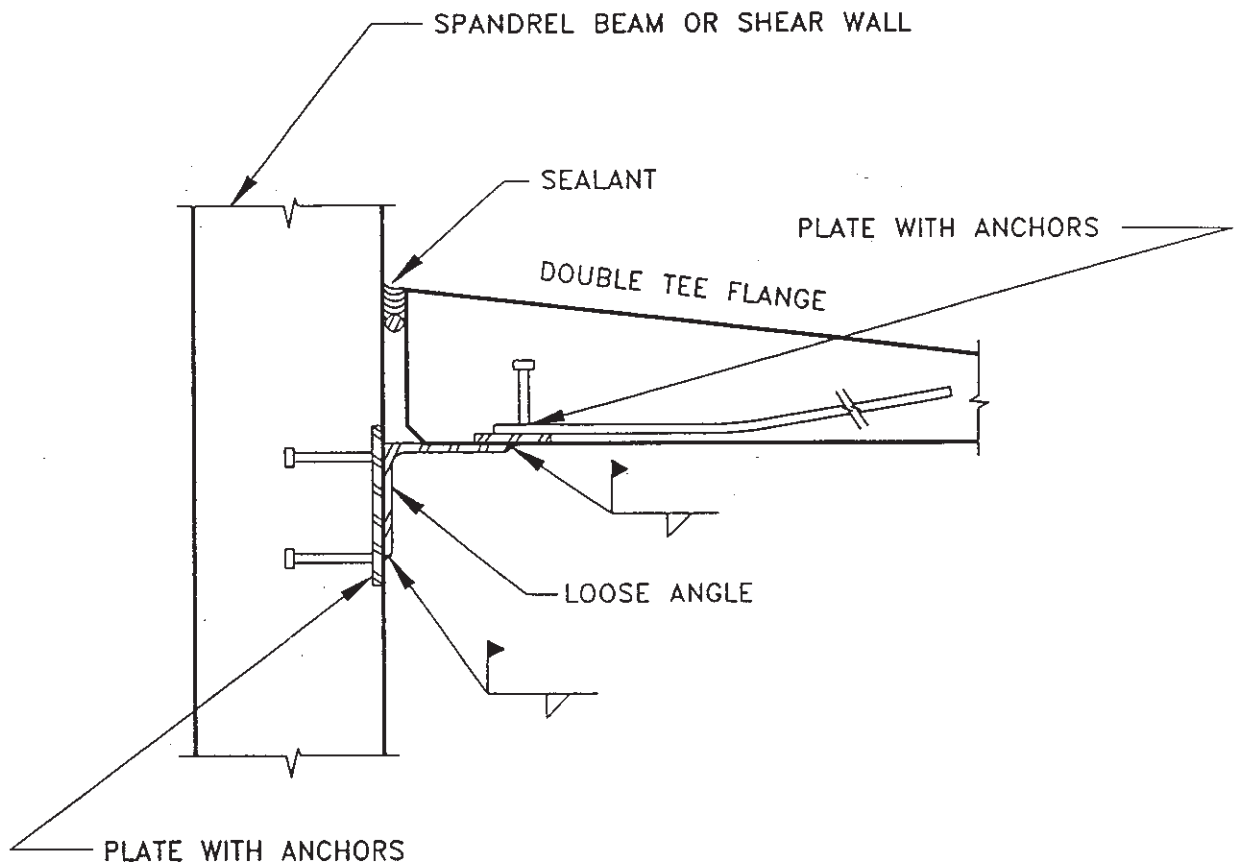
- Connection Is Made After Installation
- Ease Of Welding In The Horizontal Position

DURABILITY

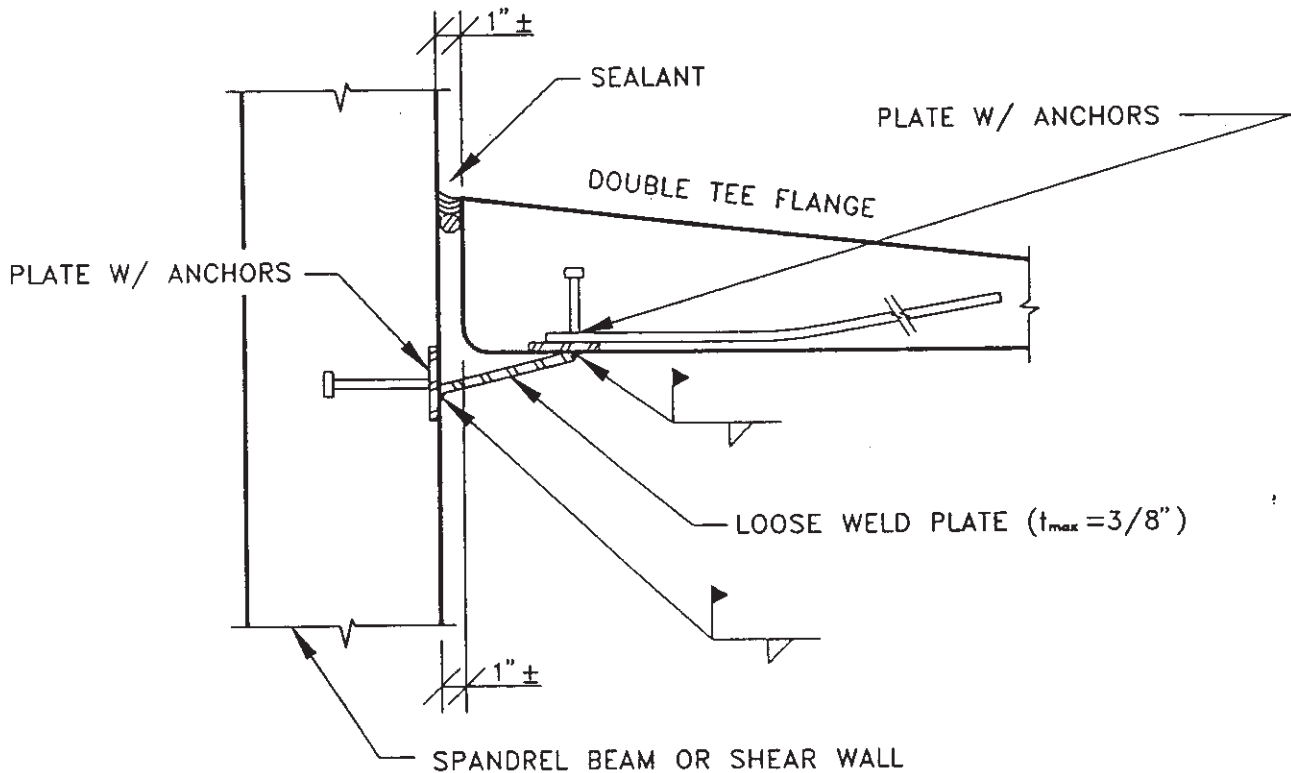
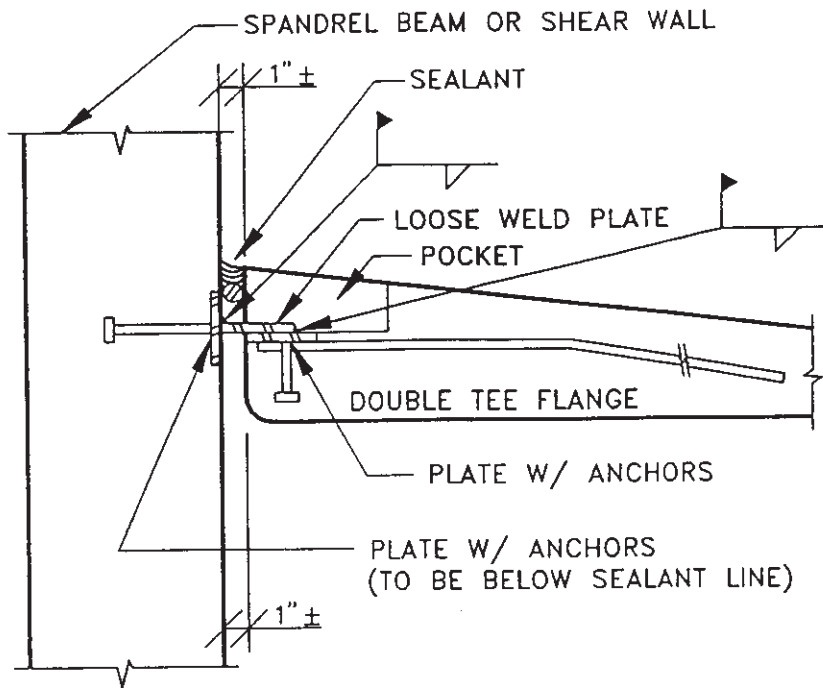
- Connecticut Pocket Filled With Sealant
- Double Tee Wash Directs Water Away From Connection

VARIATIONS

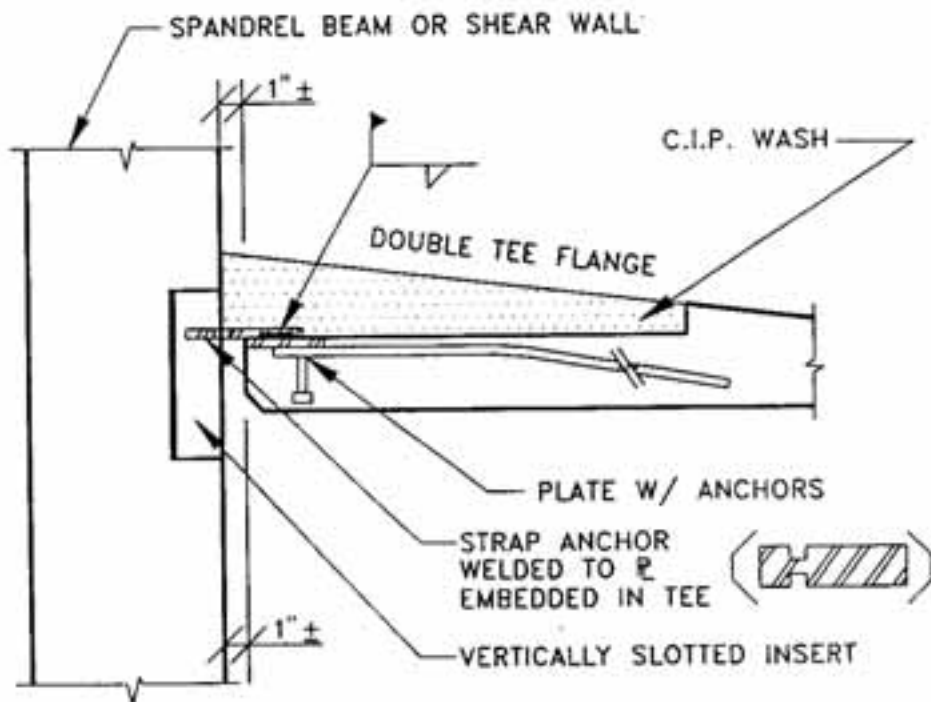
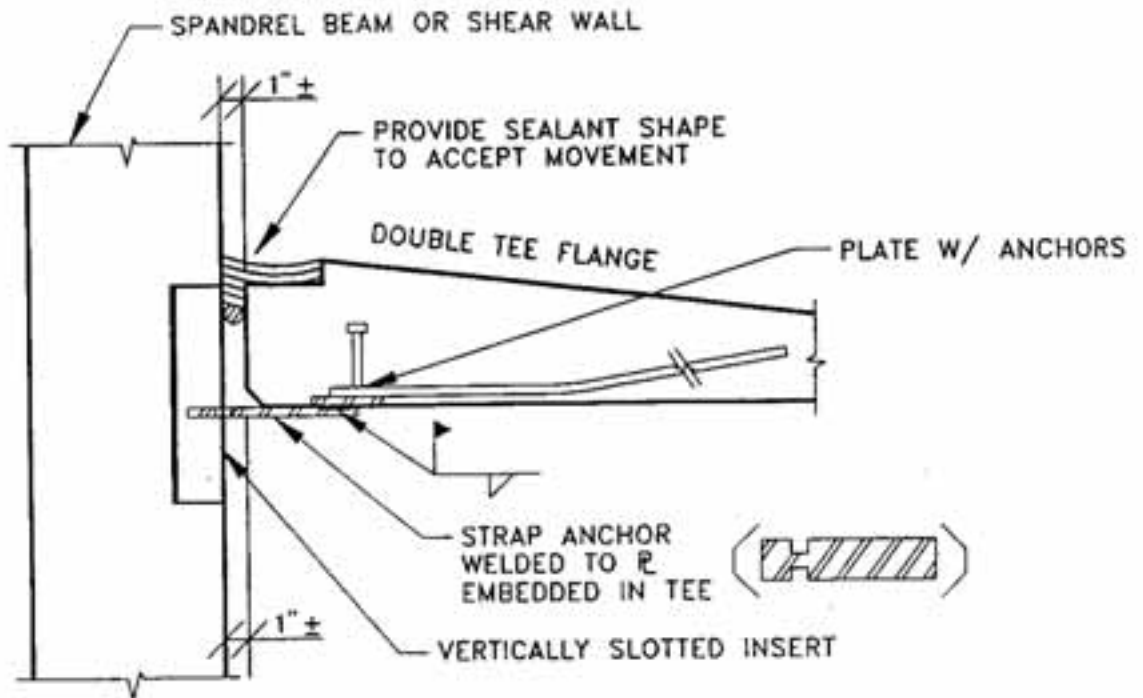
- Slotted Insert For Areas Requiring Large Vertical Movements (i.e. roof)
- Tipped Connection Plate Allows Vertical Movement
- Angle Or Plate Connection On Bottom Of Flange



Double Tee Flange to Spandrel or Shear Wall



Double Tee Flange to Spandrel or Shear Wall



pci

Double Tee Flange to Spandrel or Shear Wall

DRAWN BY W.A.

2/91 Sheet No. 4



FLANGE TO FLANGE CONNECTION

DESIGN

- Vertical Load Transfer
- Longitudinal Load Transfer Available
- Load Transfer Transversely is Created

PRODUCTION

- Adequate Tolerance provided by Plates

ERECTION

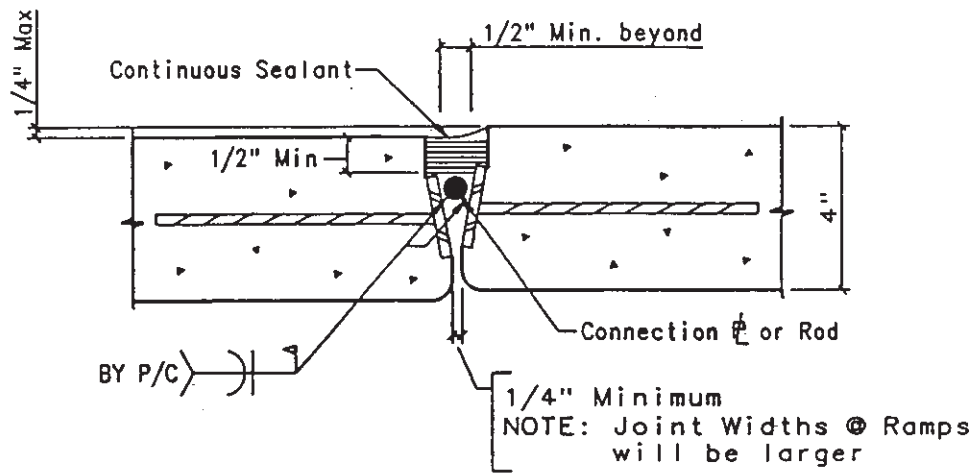
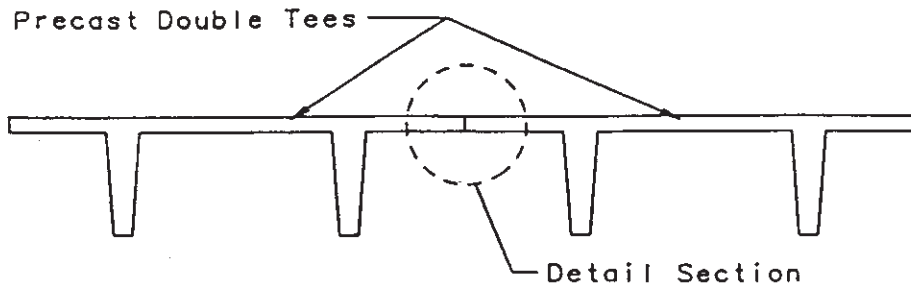
- Differential Camber Levelled in Excess of 1/4"
- Connection is Made After Release From Crane

DURABILITY

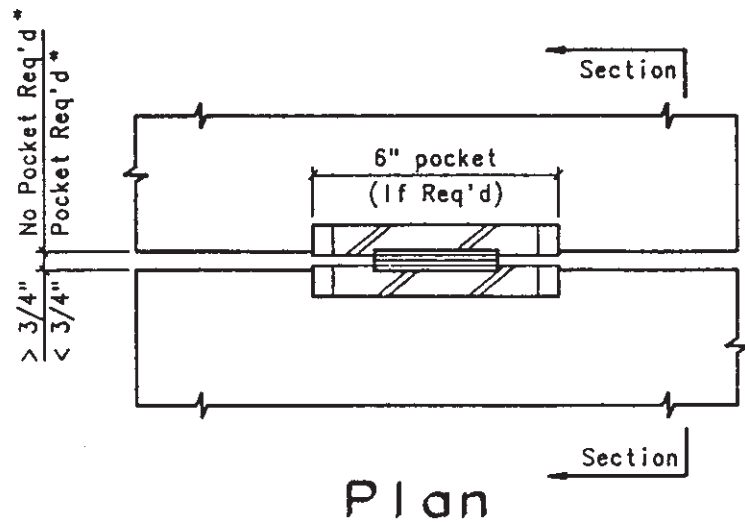
- Plates can be Stainless Steel
- Connection is Recessed and Filled with Sealant
- Top Edge of Plate Free to Prevent Spalling

VARIATIONS

- Angled Plates
- Joint/Pocket Width



Section



* Consult Producer



DT Flange to Flange Connection



INVERTED TEE BEAM TO COLUMN CONNECTION

DESIGN

- Unbalanced Loads From Double Tees
- Braces The Column
- Carries No End-Movements And Vertical Shears
- Does Not Restrain The Beam From Thermal Movements

PRODUCTION

- Adequate Tolerance Provided By Plates

ERECTION

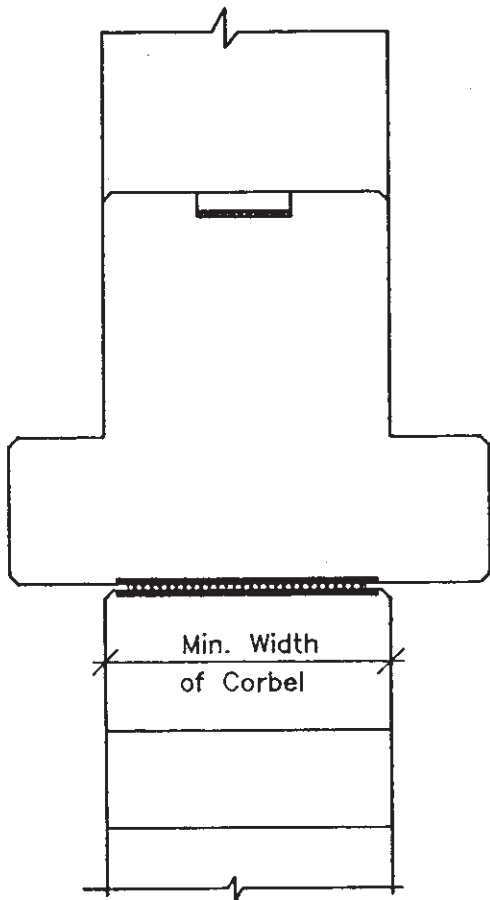
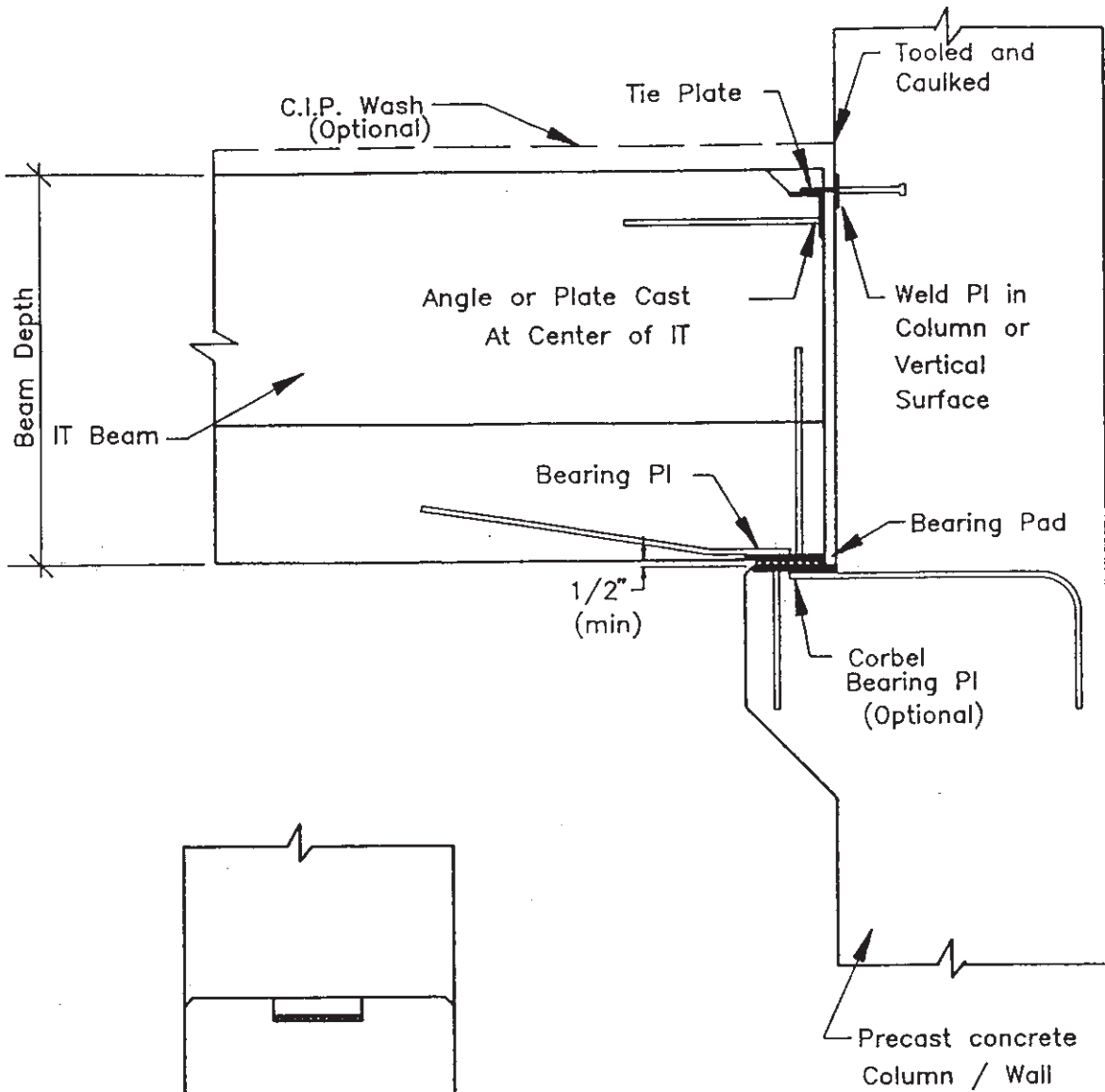
- Connection Is Made After Release From Crane Due To Double Tee Erection
- Braces Column

DURABILITY

- Connection Pocket Is Filled With Grout

VARIATIONS

- Pin Connection At Bottom
- Dowels Thru Column And Beam



Inverted Tee Beam To Column



DOUBLE TEE TO INVERTED TEE BEAM

DESIGN

- Vertical Load Transfer Into Load Bearing System
- Preserves Integrity of Floor Diaphragm
- Prevents Movement Between Inverted Tee Beam and Double Tee

PRODUCTION

- Adequate Tolerances Provided by Plates

ERECTION

- Connection Can be Made After Release From Crane

DURABILITY

- Connection is Recessed and Protected with CIP
- Joints are Caulked

VARIATIONS

- All Precast - Note: Joint Size May Vary
- CIP Over DT Only
- CIP Over DT and Beam

C.I.P. Pour Strip Directly over the Inverted Tee Beam. Finish to Match Surface of Double Tee.

Plate with Anchors.

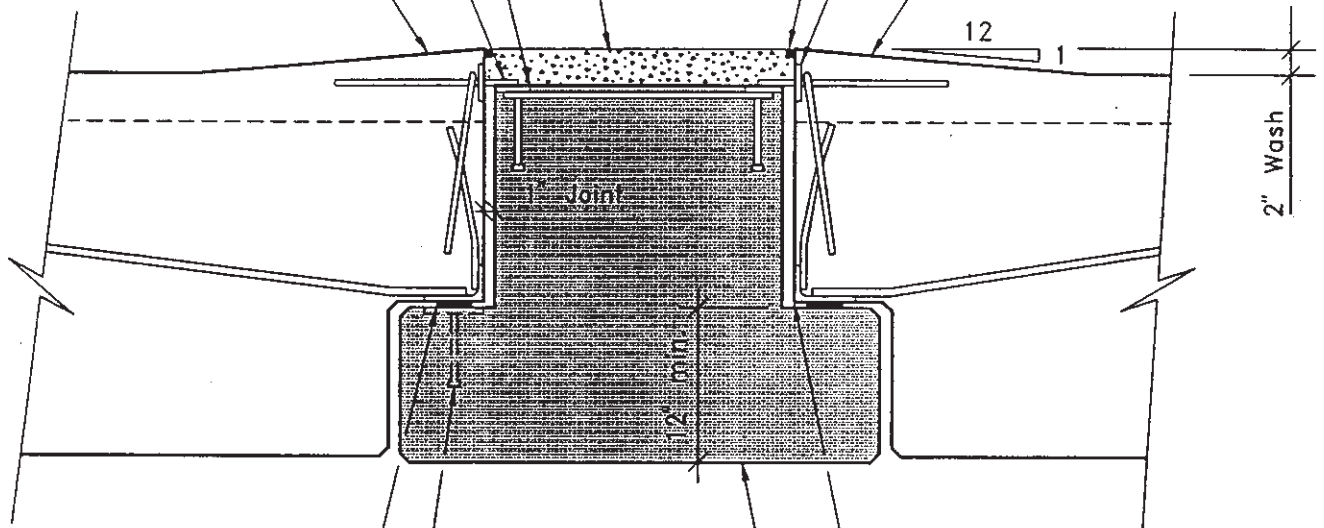
Loose Weld Plate

Tooled Joint for Sealant where C.I.P. Concrete Pour Strip meets Precast.

Plate with Anchors

Double Tee

Double Tee



Bearing Pad

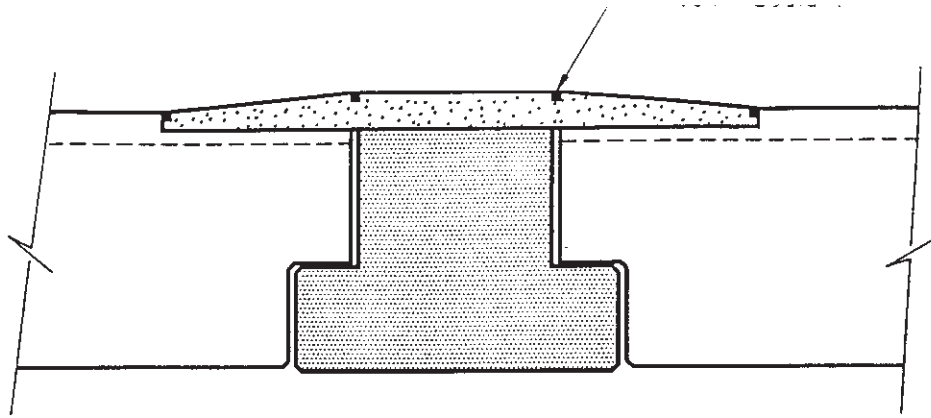
Plate or Angle with Anchors.

Confinement Plate in Inverted Tee Beam may be required if Ledge is less than 8" Wide.

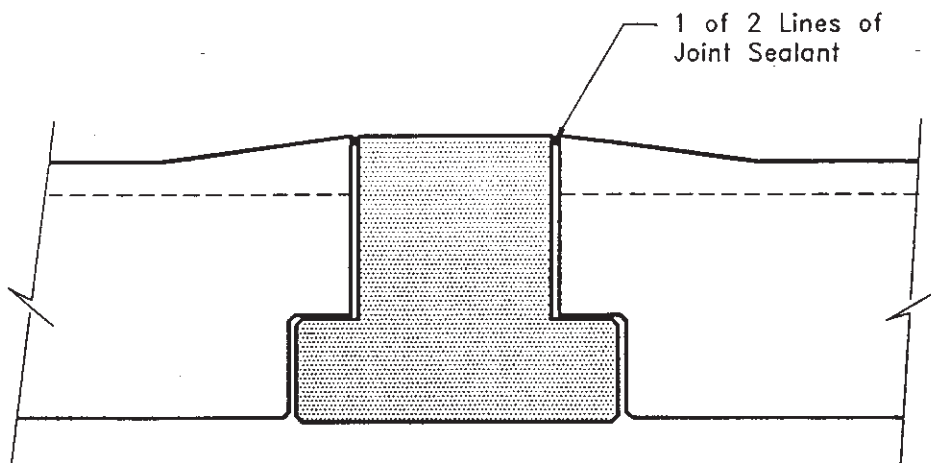
Inverted Tee Beam



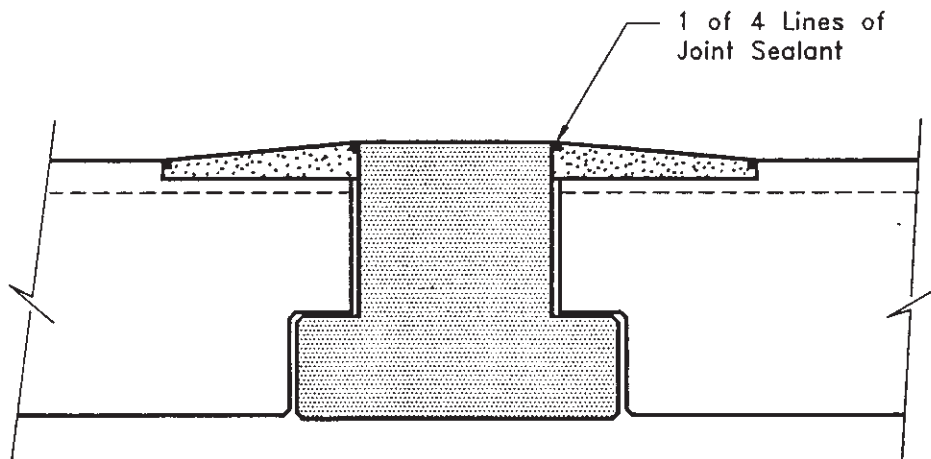
Double Tee to Inverted Tee Beam Connection



① C.I.P. OVER DOUBLE TEE AND BEAM



② ALL PRECAST



③ C.I.P. OVER DOUBLE TEE ONLY