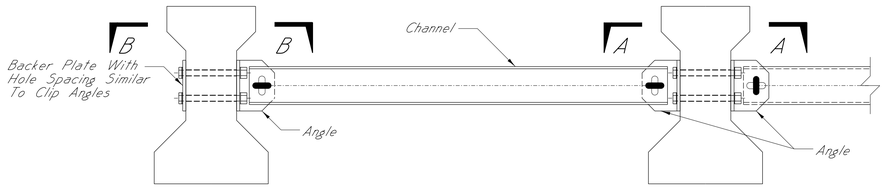
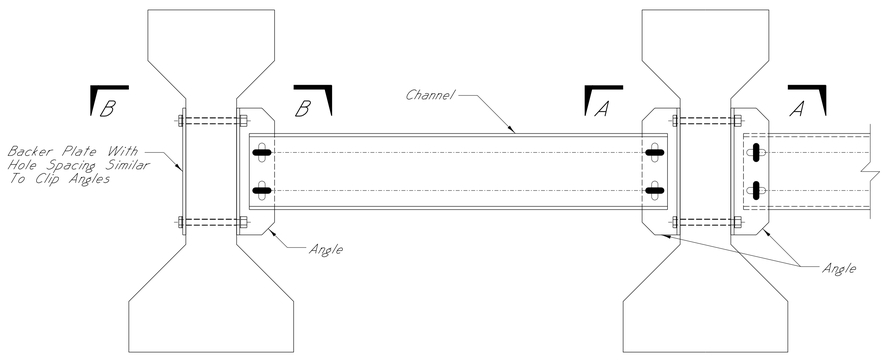
STATE	PROJECT NO.
MISS.	



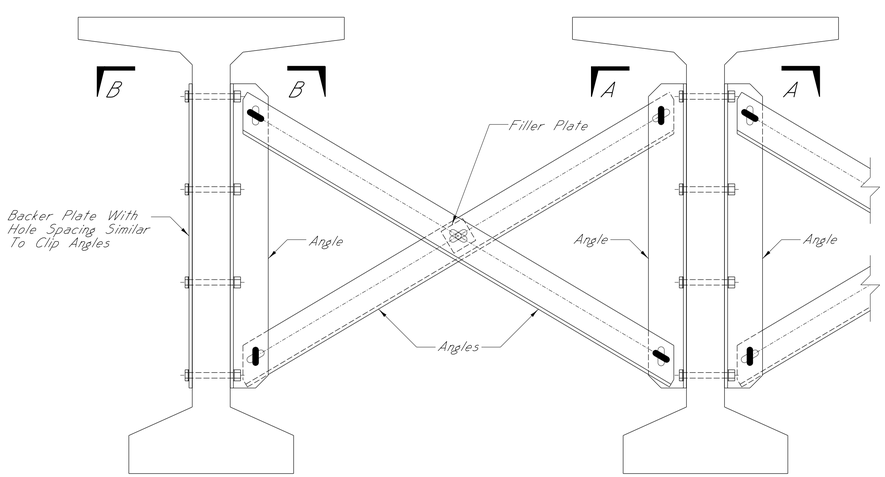
TEMPORARY STEEL BRACING DETAILS

AASHTO Type-I+2, Type-II, & Type-II+2 Beams



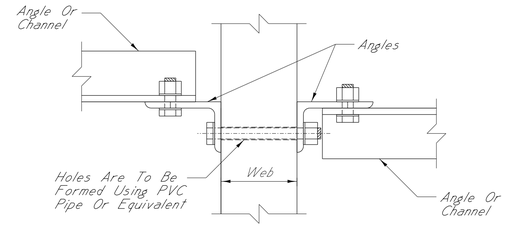
TEMPORARY STEEL BRACING DETAILS

AASHTO Type-III & Type-IV Beams

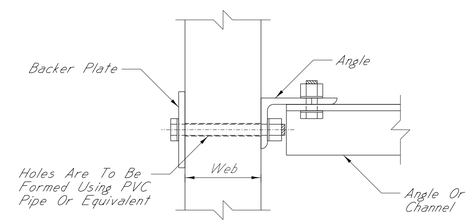


TEMPORARY STEEL BRACING DETAILS

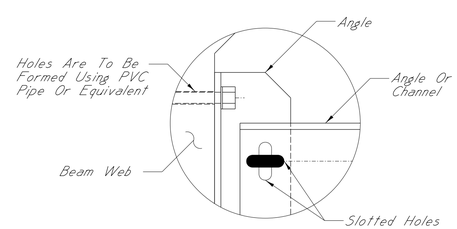
Bulb-T Beams



SECTION A-A



SECTION B-B



CONNECTION DETAIL

NOTE TO CONTRACTOR:

The Contractor Shall Employ The Service Of A MS Registered Professional Engineer Who Is Knowledgeable And Proficient In The Field Of Bridge Design.

Temporary Bracing System Shall Be Designed To Prevent Beam Tipping Due To Construction Loading And Overturning Due To Accidental Impact.

The Design Must Insure That The Locations Of The Temporary Bracing Systems Do Not Interfere With Diaphragms, Prestressing Strands, Or Reinforcing. These Locations Along With The Blockout Holes Shall Be Shown In The Precast Beam Shop Drawings.

Alternate Temporary Bracing Systems May Be Used.

Use Of The Temporary Bracing Systems And/Or Details Shown On This Sheet Are For Information Only And Do Not Relieve The Contractor Of The Responsibility For The Adequacy Of The Bracing And The Safety Of The Structure.

The Contractor's Engineer Shall Determine The Number And Location Of The Temporary Bracing Systems. Each Beam Shall Have A Minimum Of Two (2) Seperate Temporary Bracing Locations.

A Complete Set Of Temporary Bracing Detail Drawings And Design Calculations, Bearing The Design Engineers Seal, Shall Be Submitted To The Project Engineer And Director Of Structures, State Bridge Engineer For Review. The Submittal Shall Specify The Number, Location, And Configuration Of The Temporary Bracing.

After Temporary Bracing System Installation And Prior To Commencing Any Other Work On The Bridge, The Contractor Shall Provide MDOT Written Certification From The Design Engineer That Installation Of The Temporary Bracing Was In Full Accordance With The Design Plans.

GRADE SEPARATION BRIDGES GENERAL NOTES:

Specifications: MISSISSIPPI Standard Specifications For Road And Bridge Construction, 2004.

Temporary Bracing Systems On Spans Over Traffic And Railways Shall Consist Of Steel Members Only. Temporary Bracing Systems On All Other Spans Shall Conform To The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN And May Consist Of Material Other Than Steel. Although Contractor May Elect To Use Temporary Steel Bracing Systems On All Spans.

Temporary Steel Bracing System Shall Be Designed And Furnished By The Contractor (See NOTE TO CONTRACTOR).

Temporary Steel Bracing Shall Be Installed Progressively With The Erection Of Beams. Temporary Steel Bracing Shall Be Installed Immediately After Erection Of Initial Adjacent Beams. Successive Temporary Steel Bracing Shall Be Installed Immediately After Erection Of Each Additional Beam.

Temporary Steel Bracing Shall Be Installed At The Locations Detailed In The Contractor's Temporary Steel Bracing Plans And Remain In Place Until Permanent Diaphragms As Per The Contract Plans Are In Place. Permanent Bracing May Include Intermediate Diaphragms But Not End Diaphragms. In Spans With No Intermediate Diaphragms, Temporary Steel Bracing Shall Remain In Place Until The Deck Is Poured.

Bulb Tee Beams Shall Be Cross Braced. A Single Temporary Bracing Member May Be Used As Shown For AASHTO Beams.

Temporary Steel Bracing Shall Be Perpendicular To The Beams And Not Skewed.

Temporary Steel Bracing May Be Discontinuous Or Continuous Across The Width Of The Bridge.

Backer Plates Are Required At All Discontinuous Bracing Locations.

Temporary Steel Bracing System Shall Be Constructed Of New Or Used Steel That Conforms To ASTM A36 Or Higher. Used Steel Shall Be In Good, Sound Condition.

Steel May Be Unpainted.

Bolts Shall Be ASTM A325 With Heavy Hex Nuts And Hardened Steel Washers That Meets The Requirements Of ASTM A563 And A436, Respectively. Washers Shall Be Large Enough To Completely Cover The PVC Blockouts.

PVC Blockout Diameter Shall Be No Larger Than ¼" Greater Than The Bolt Diameter And Shall Be Fully Grouted With An Approved Non-Shrink Grout After Removal Of Temporary Bracing.

Design Of Reusable Temporary Steel Bracing Systems Comprised Of Members With Slotted Holes May Be Used.

All Material Furnished By The Contractor And Used In Construction Of The Temporary Steel Bracing System Shall Remain The Property Of The Contractor And Shall Be Removed From The Site.

There Will Not Be A Separate Pay Item For The Temporary Steel Bracing System. Payment For The Temporary Steel Bracing System Will Be Absorbed In The Prestress Beam Pay Items.

HYDRAULIC BRIDGES GENERAL NOTES:

Temporary Bracing Systems On Hydraulic Bridges Shall Conform To The BRIDGE SUPERSTRUCTURE CONSTRUCTION PLAN And May Consist Of Material Other Than Steel. Although Contractor May Elect To Use Temporary Steel Bracing Systems.

REVISIONS	BY	DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

TEMPORARY STEEL BRACING

PROJECT

COUNTY

WORKING NUMBER

SHEET NUMBER

DESIGNED ____ DETAILED ____ TRACED ____

CHECKED ____ ISSUED ____ DATE ____