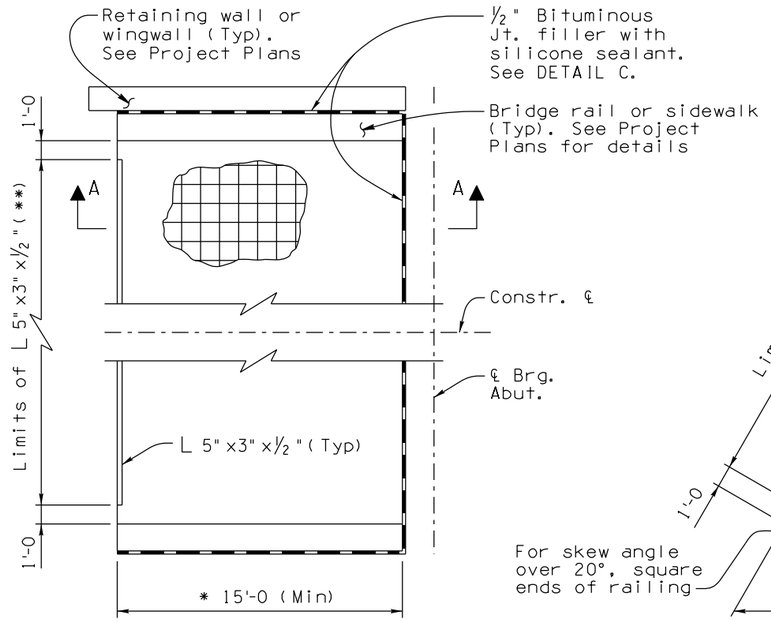
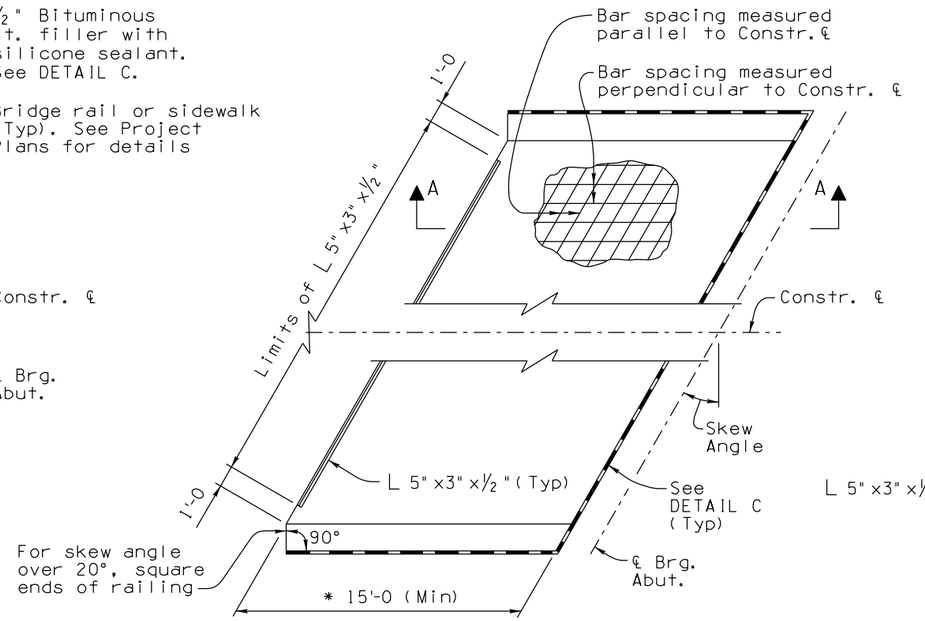


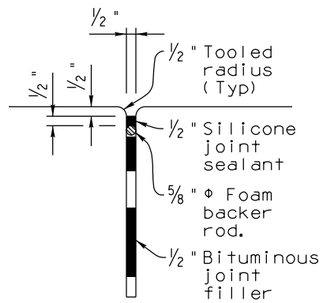
PLAN A

Right Angle Bridge

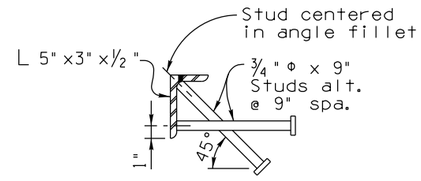


PLAN B

Skewed Bridge Without Anchor Slab
Skew Angle ≤ 45°



DETAIL C



ALTERNATE ANCHOR DETAIL

GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.

Design Specifications - AASHTO LRFD Bridge Design Specifications, 8th Edition 2017.

All Concrete shall be Class "S" (f'c = 4000 psi).

Reinforcing steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60. All reinforcing shall be epoxy coated at locations above 4000 foot elevation or as specified in the project plans.

All bends and hooks shall meet the requirements of AASHTO Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars.

All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.

All reinforcing steel shall have 2 inch clear cover unless noted otherwise.

Structural steel shall conform to ASTM specification A588 Grade 50 or A709 Grade 50W.

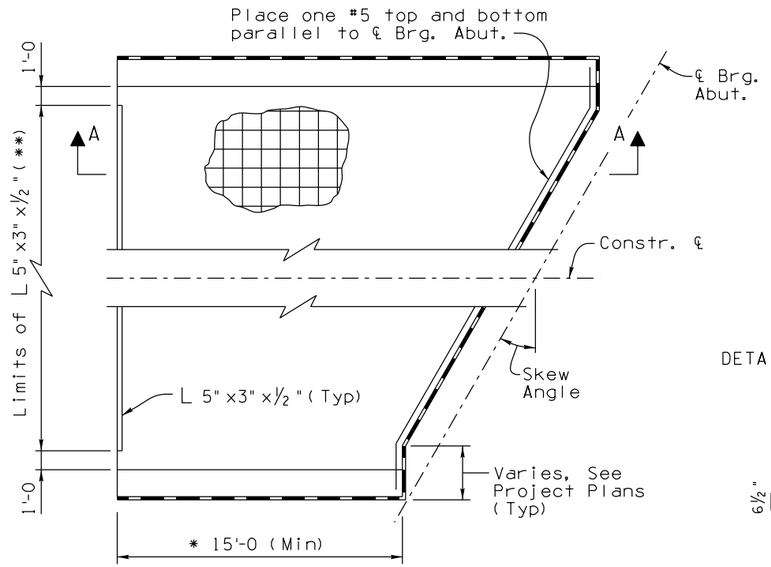
All welding shall conform to the requirements of the American Welding Society, ANSI/AASHTO/AWS D1.5 Bridge Welding Code, latest Edition.

Dimensions shall not be scaled from drawings.

Item	APPROACH SLAB
Item No.	6011371
Measurement	Square Foot

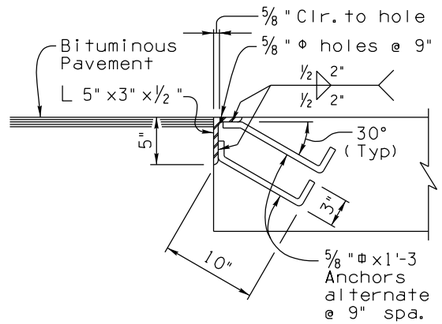
JOINT NOTE:

½"Silicone joint sealant shall be ASTM D5893 Type NS. 2" Silicone joint sealant shall be rapid-cure, self leveling, two-part silicone rubber sealant designed for expansion joints. Prime coat concrete sides of joint. Do not prime coat the backer rod. Backer rod shall be closed cell polyethylene foam.



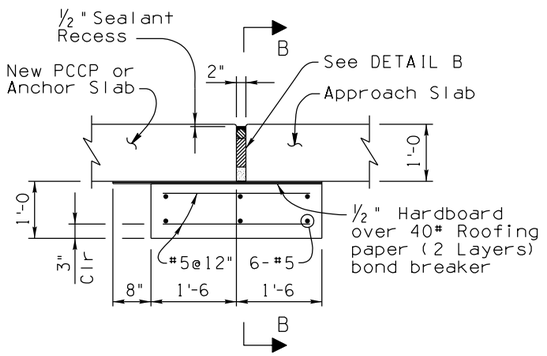
PLAN C

Skewed Bridge
Skew Angle > 45°



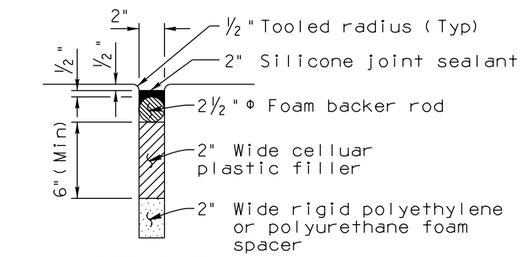
DETAIL A

Bituminous Pavement Alternate
(See Project Plans for joint detail when an integral abutment is used)

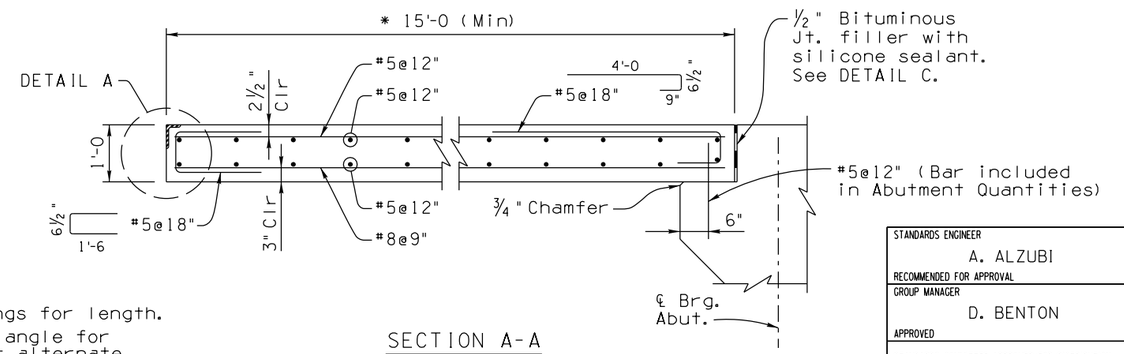


DETAIL A

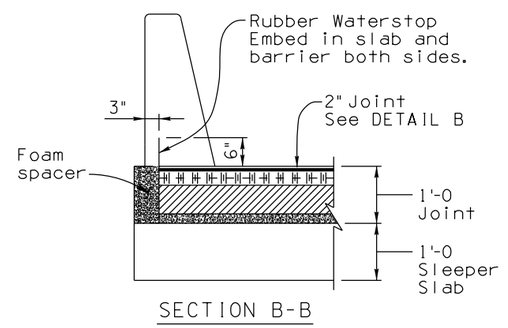
Concrete Pavement Alternate



DETAIL B



SECTION A-A



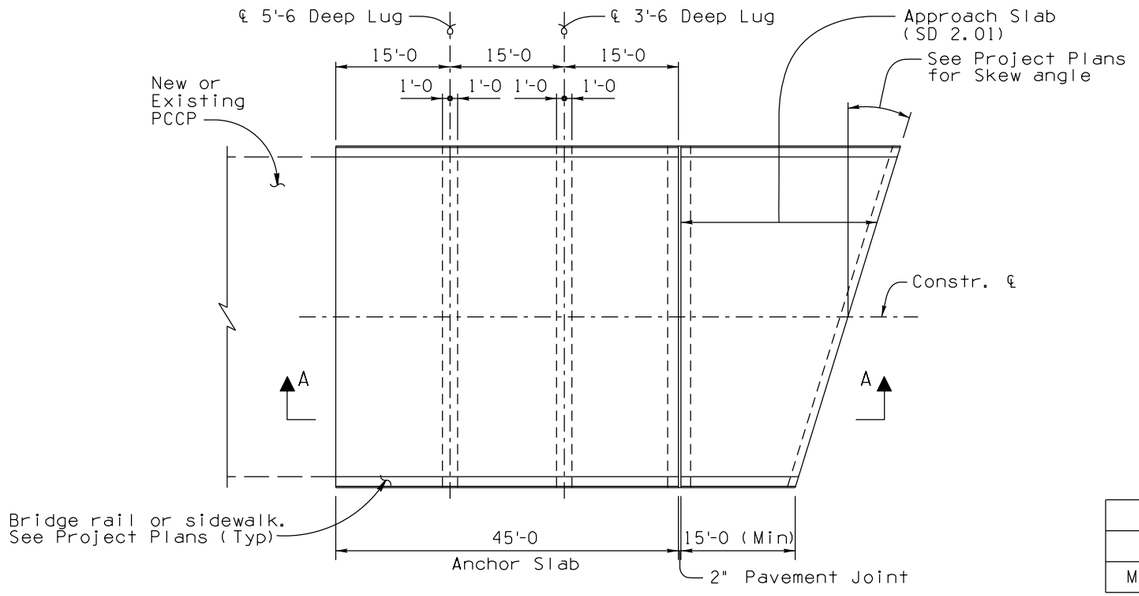
SECTION B-B

* See Bridge drawings for length.

** Omit total guard angle for concrete pavement alternate.

STANDARDS ENGINEER	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION **BRIDGE GROUP STANDARD DRAWING**	
A. ALZUBI RECOMMENDED FOR APPROVAL		
GROUP MANAGER D. BENTON APPROVED	APPROACH SLAB DETAILS	DRAWING NO. SD 2.01
STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION 08/23 DATE		

PRIOR DISTRIBUTION DATE 12/07



PLAN - TYPE 1 ANCHOR SLAB

(For Pavement greater than 700 Feet in length)

Item	ANCHOR SLAB - TYPE 1
Item No.	6011372
Measurement	Square Foot

GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.

Design Specifications - AASHTO LRFD Bridge Design Specifications, 8th Edition 2017.

All Concrete shall be Class "S" (f'c = 4000 psi).

Reinforcing steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60. All reinforcing shall be epoxy coated at locations above 4000 foot elevation or as specified in the project plans.

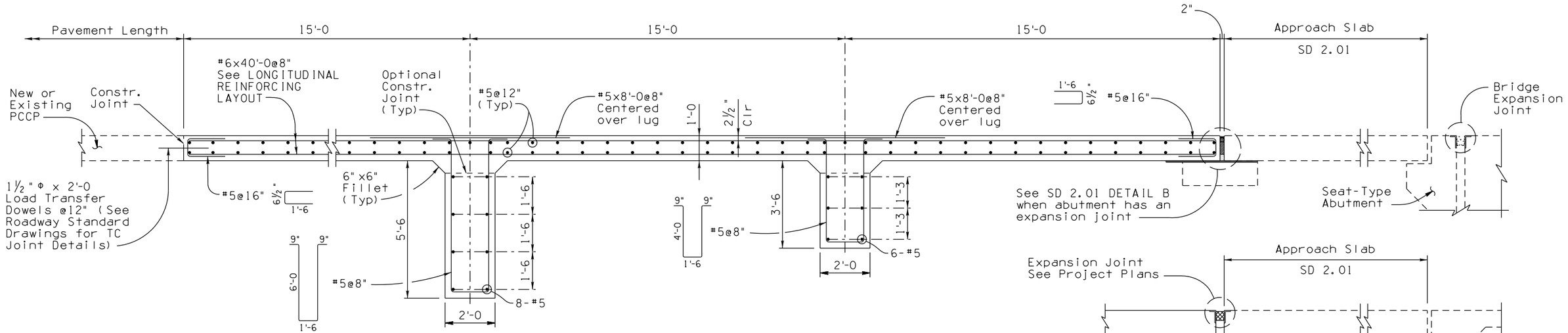
All bends and hooks shall meet the requirements of AASHTO Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars.

All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.

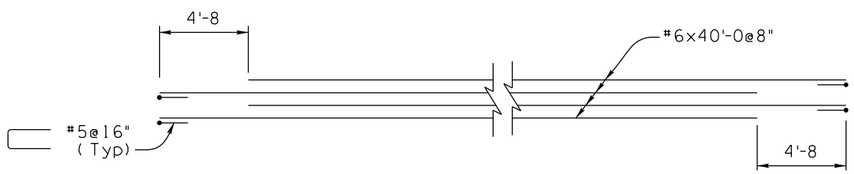
All reinforcing steel shall have 3 inch clear cover unless noted otherwise.

Anchor lugs shall be cast in precompacted roadway embankment or cast in forms and soil compacted to embankment requirements around lugs prior to casting the Anchor Slab.

Dimensions shall not be scaled from drawings.



SECTION A-A

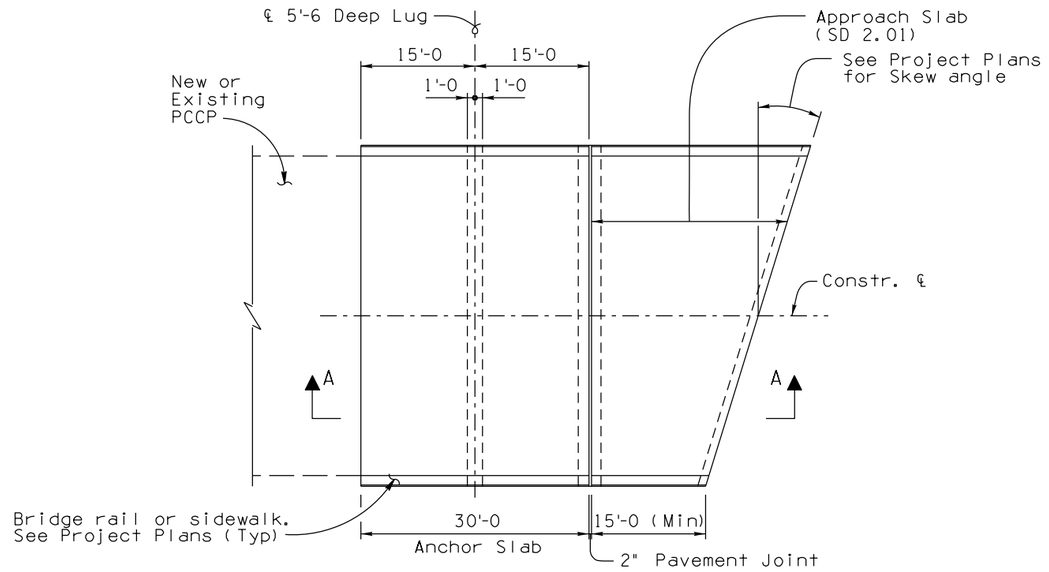


LONGITUDINAL REINFORCING LAYOUT

Note to Designer:
The information presented in this Standard Drawing has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

PRIOR DISTRIBUTION DATE	12/07

STANDARDS ENGINEER A. ALZUBI RECOMMENDED FOR APPROVAL	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION **BRIDGE GROUP STANDARD DRAWING**
GROUP MANAGER D. BENTON APPROVED	TYPE 1 ANCHOR SLAB DETAILS — DRAWING NO. SD 2.02
STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION 08/23 DATE	



PLAN - TYPE 2 ANCHOR SLAB

(For Pavement 300 Feet to 700 Feet in length)

Item	ANCHOR SLAB - TYPE 2
Item No.	6011373
Measurement	Square Foot

GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.

Design Specifications - AASHTO LRFD Bridge Design Specifications, 8th Edition 2017.

All Concrete shall be Class "S" (f'c = 4000 psi).

Reinforcing steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60. All reinforcing shall be epoxy coated at locations above 4000 foot elevation or as specified in the project plans.

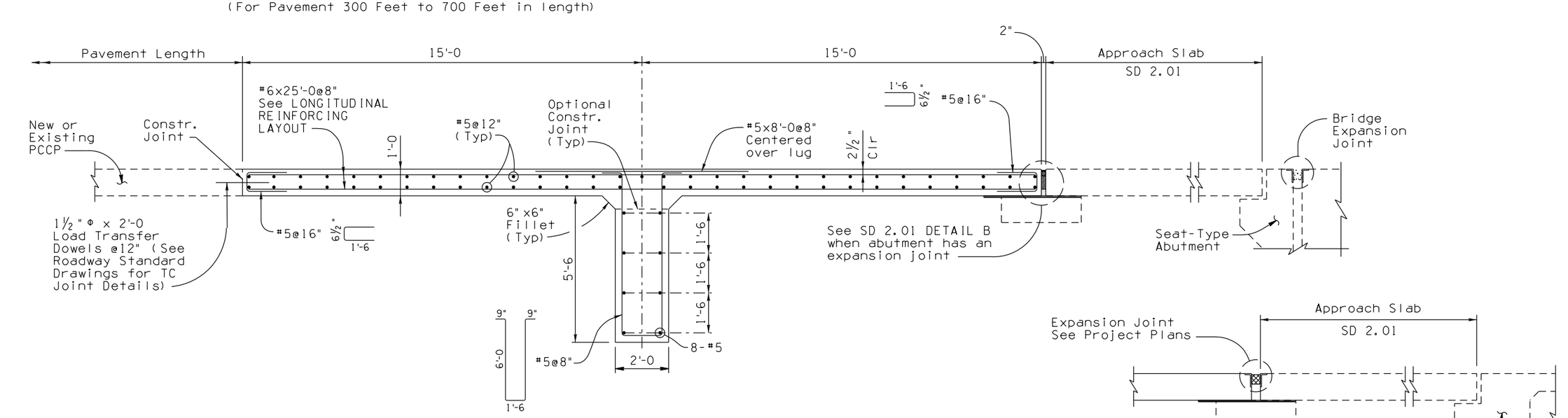
All bends and hooks shall meet the requirements of AASHTO Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars.

All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.

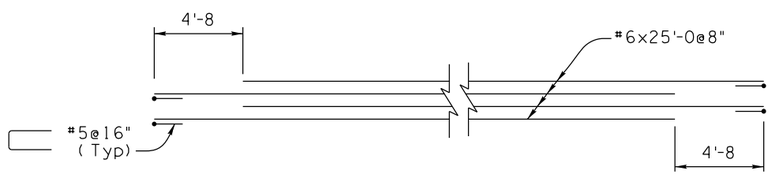
All reinforcing steel shall have 3 inch clear cover unless noted otherwise.

Anchor lugs shall be cast in precompacted roadway embankment or cast in forms and soil compacted to embankment requirements around lugs prior to casting the Anchor Slab.

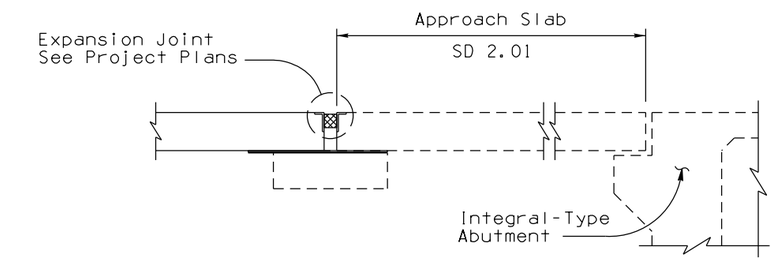
Dimensions shall not be scaled from drawings.



SECTION A-A



LONGITUDINAL REINFORCING LAYOUT



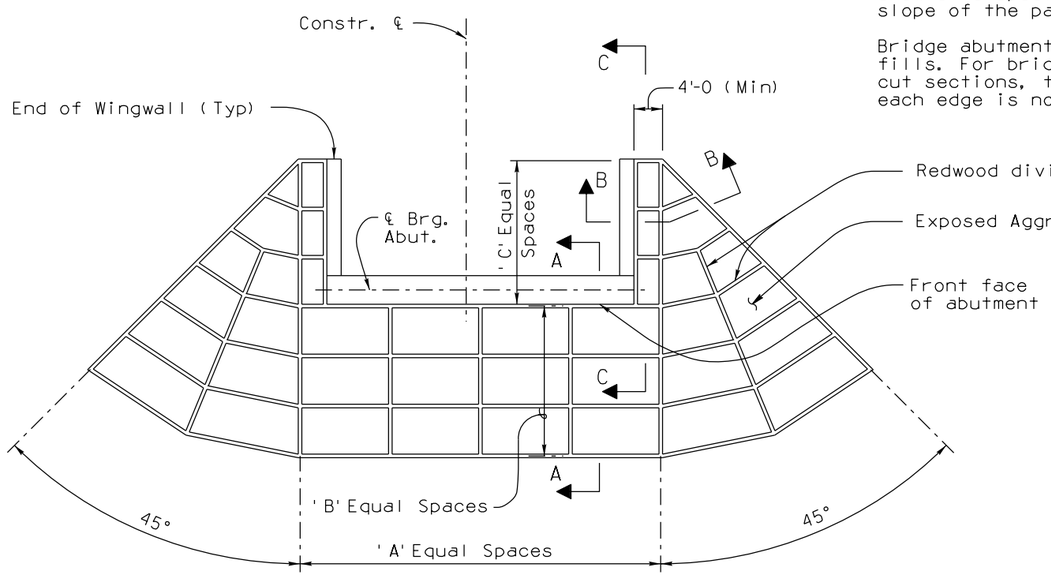
STANDARDS ENGINEER A. ALZUBI RECOMMENDED FOR APPROVAL	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION **BRIDGE GROUP STANDARD DRAWING**
GROUP MANAGER D. BENTON APPROVED	TYPE 2 ANCHOR SLAB DETAILS — DRAWING NO. SD 2.03
STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION 08/23 DATE	

PRIOR DISTRIBUTION DATE 12/07

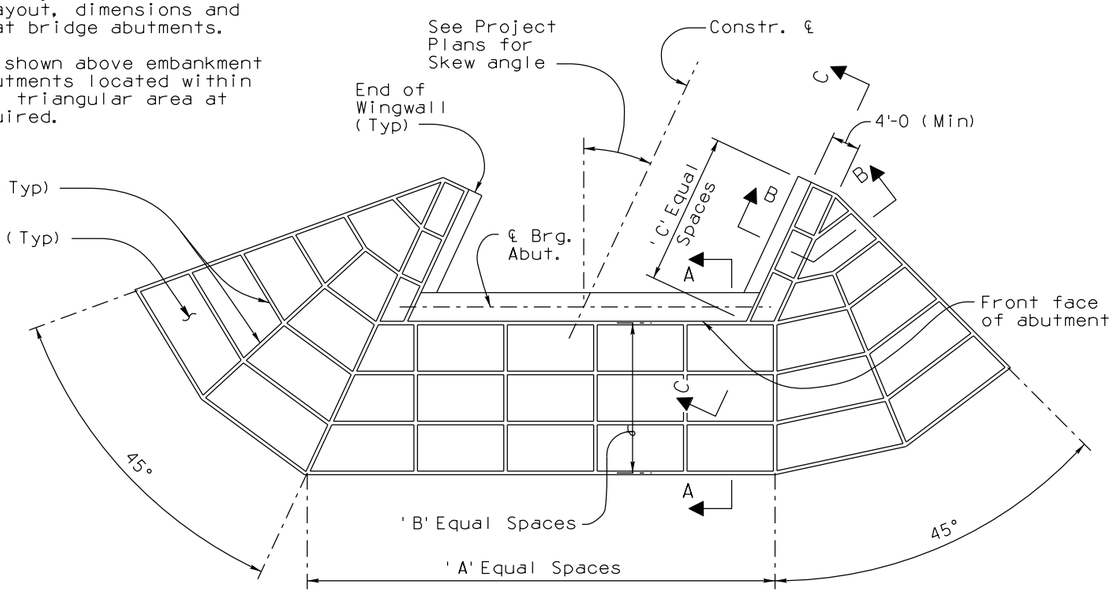
NOTES:

A, B, C and D equal spaces are measured along slope (8 feet maximum vertical and 15 feet maximum horizontal). Project Plans shall show site specific layout, dimensions and slope of the paving at bridge abutments.

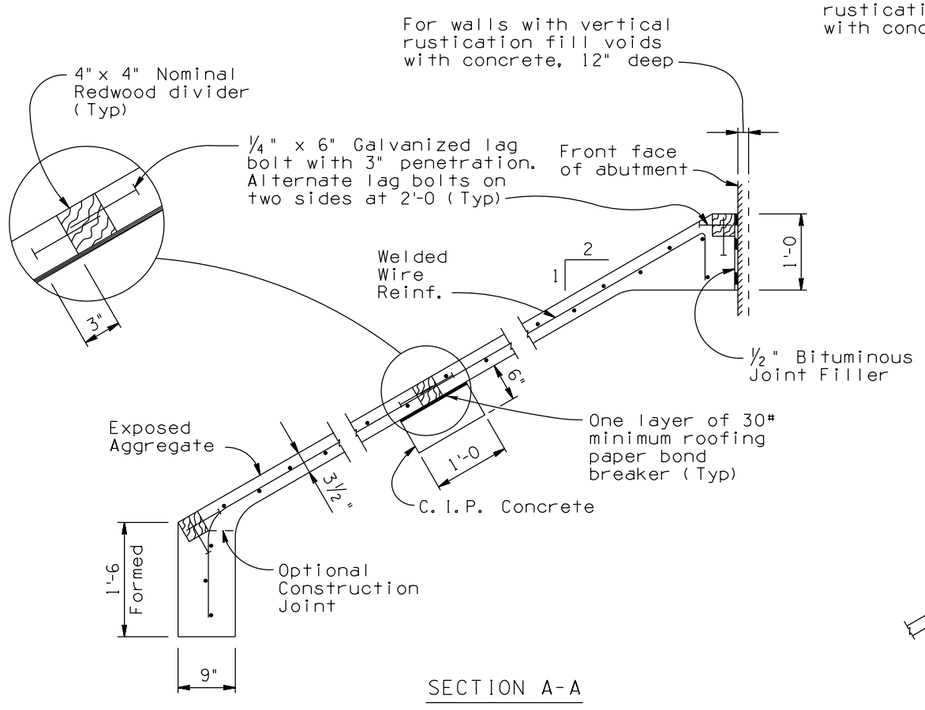
Bridge abutments are shown above embankment fills. For bridge abutments located within cut sections, the 45° triangular area at each edge is not required.



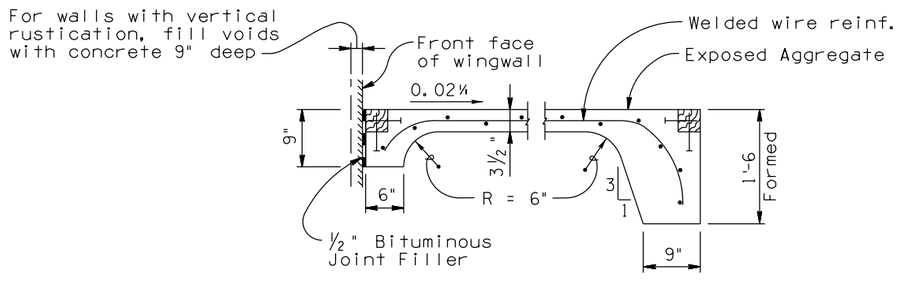
PLAN - RIGHT ANGLE BRIDGE



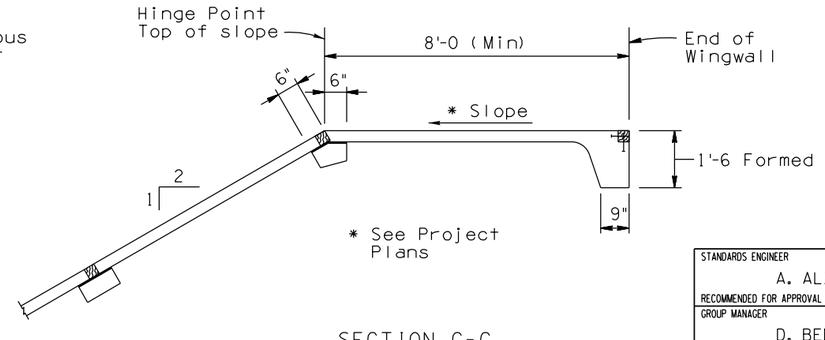
PLAN - SKEW BRIDGE



SECTION A-A



SECTION B-B



SECTION C-C

GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition.

Design Specifications - AASHTO LRFD Bridge Design Specifications, 8th Edition 2017.

Concrete for slope paving shall be Class "S", (f'c = 3000 psi) with exposed aggregate surface. Maximum size coarse aggregate shall be ¾ inch.

Shotcreting shall not be allowed.

Welded Wire Reinforcement 6 x 6 - W2.5 x W2.5 shall conform to ASTM A1064.

Slope paving is shown for 2:1 slopes. Slope paving may not be required for slopes less than 3:1 (See Project Plans).

Slope Paving work will be paid for under its respective Contract Item.

PRIOR DISTRIBUTION DATE	12/07

STANDARDS ENGINEER A. ALZUBI RECOMMENDED FOR APPROVAL	ARIZONA DEPARTMENT OF TRANSPORTATION INFRASTRUCTURE DELIVERY AND OPERATIONS DIVISION **BRIDGE GROUP STANDARD DRAWING**
GROUP MANAGER D. BENTON APPROVED	SLOPE PAVING DETAILS — DRAWING NO. SD 2.04
STANDARDS COMMITTEE APPROVED FOR DISTRIBUTION 08/23 DATE	