

PLAN FOR TYPE A1 ABUTMENT

(SEE STD. 12.01 FOR ABUTMENT BODY DETAILS)

2'-0" MIN. > A₩ 2-#4 BARS - NAME PLATE (ONLY FOR TYPE "W", "M", NY3&4 OR TIMBER RAIL AS SHOWN ON STANDARD 30.24), LOCATE NAME PLATE ON FIRST RIGHT WING TRAVELING UP STATION. - ½" FILLER, SEALER & 18" RUBBERIZED MEMBRANE WATERPROOFING #4 BARS @ 1'-0" --WT BARS #5 BARS @ 1'-0" F.F. WBARS B.F. A₩ BAR SIZE DISTANCE 1'-9" 5 0.6 WING LENGTH 2'-1" 6 WING PILE REQ'D. FOR WINGS OVER 16'-6" ONLY 2'-9" 3'-8" WING ELEVATION 4'-7" (A1 ABUTMENT)

DESIGNER NOTES

THIS TYPE OF WING SHOULD BE USED WHEN POSSIBLE IN LIEU OF WINGS PARALLEL TO THE ROADWAY. DO NOT USE FOR STREAM CROSSINGS WHERE HIGH WATER ELEVATION IS ABOVE THE BOTTOM OF ABUTMENT.

*USE 2½:1 FOR THE UNSTABLE CLAYS WHICH ARE SOMETIMES ENCOUNTERED IN NORTHWEST WISC. (SUPERIOR AREA)

WHEN TIMBER RAILING IS USED AS PER STANDARD 30.24, WHEN TIMBER AND THE SKEW IS > 0°, THIS CONSTRUCTION JOINT SHALL BE MANDATORY. THE WING CONCRETE SHALL BE PLACED ABOVE CONSTR. JT. AFTER THE TIMBER END POSTS ARE IN PLACE.

ALL WING BARS SHALL BE EPOXY COATED.

SHOW ALL LONGITUDINAL BARS FOR CLARITY.

LRFD DESIGN LOADS (WINGS)

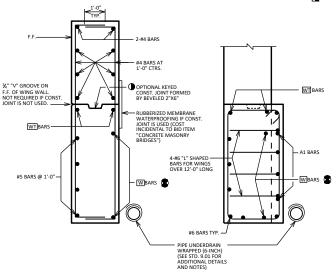
LIVE LOAD = 1:0° SURCHARGE
LOAD FACTORS:

\$ poc = 1.25
\$ pic = 1.25
\$

TABLE A

WING	WING HEIGHT				
LENGTH	8'-6"	10'-0"	11'-6"	13'-0"	BARS
10'-0"	5-#5'S	5-#5'S	6-#5'S	X	W
	2-#5'S	2-#5'S	2-#5'S	${}$	WT
	4-#6'S	4-#6'S	5-#6'S	X	A1
12'-0"	X	5-#6'S	5-#7'S	6-#7'S	W
	X	2-#7'S	2-#7'S	2-#8'S	WT
	X	5-#6'S	6-#6'S	6-#7'S	A1
16'-0"	${}$	5-#8'S	6-#8'S	5-#9'S	W
	\times	2-#8'S	2-#8'S	2-#9'S	WT
	X	5-#8'S	6-#8'S	7-#8'S	A1
20'-0"	${}$	> <	8-#8'S	8-#9'S	W
	\times	$>\!\!<$	2-#8'S	2-#9'S	WT
	\mathbb{N}	$\overline{}$	7-#9'S	8-#9'S	A1

▲ WING PILE REQUIRED



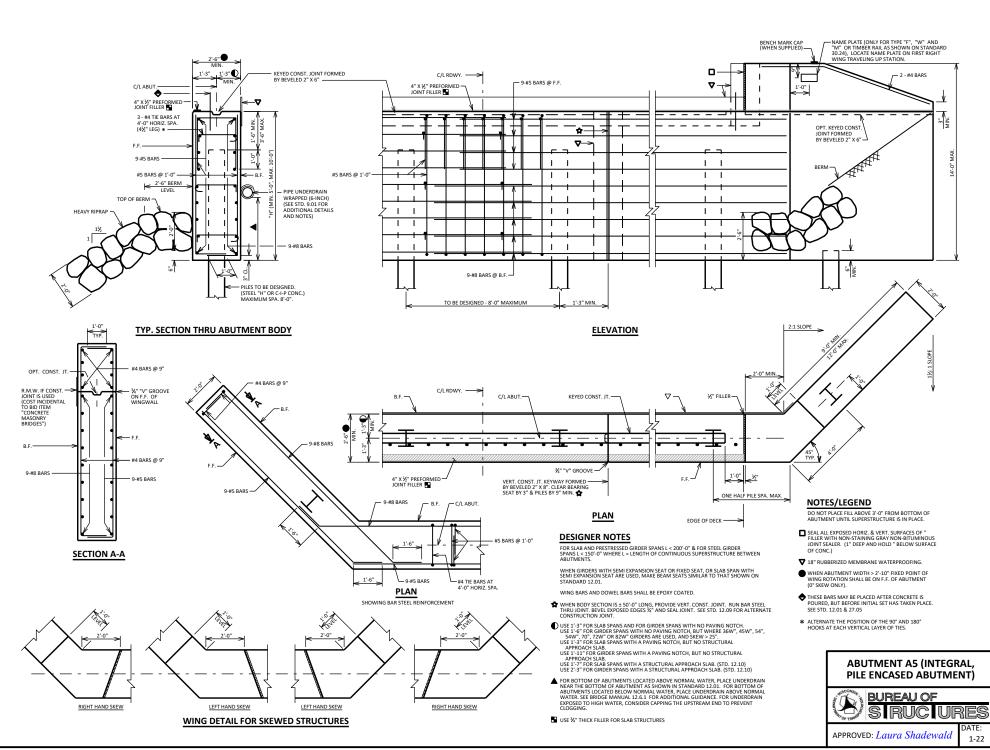
SECTION A-A

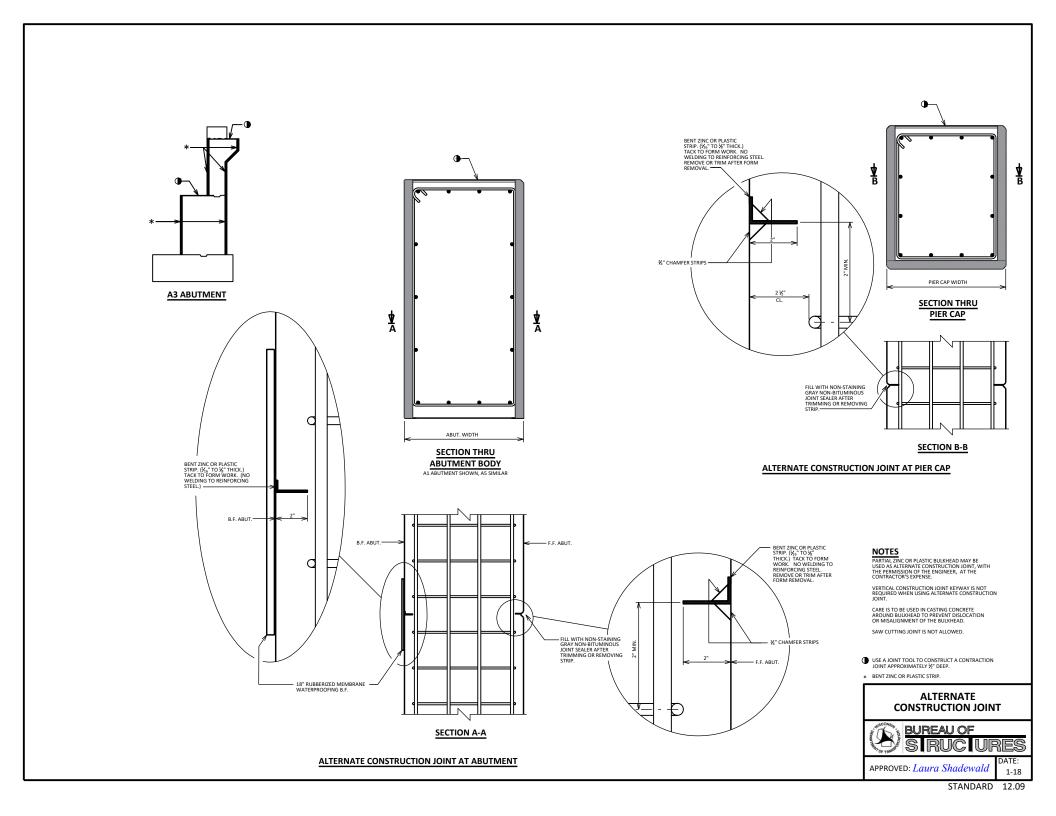
SECTION B-B SEE STD. 12.01 & 12.02 FOR NOTES & DETAILS **DETAILS FOR WINGS PARALLEL** TO A1 ABUTMENT CENTERLINE

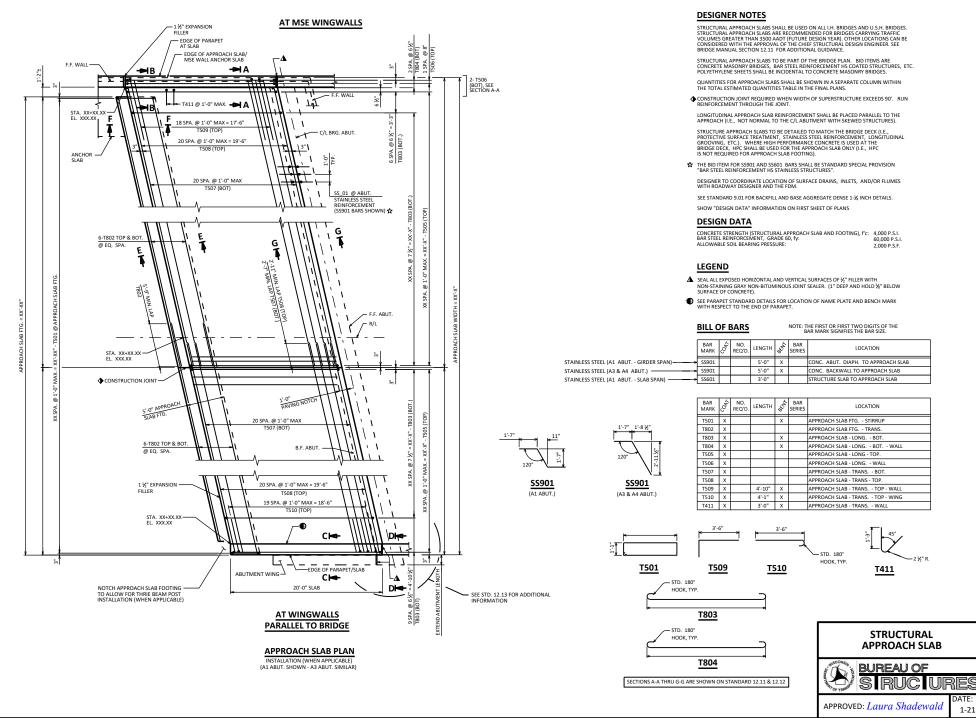


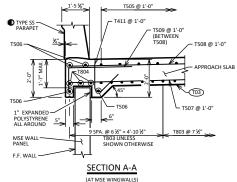
APPROVED: Laura Shadewald

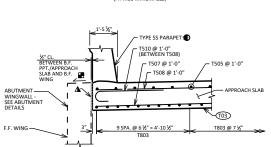
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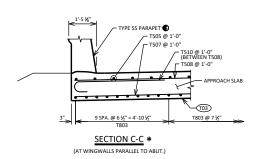


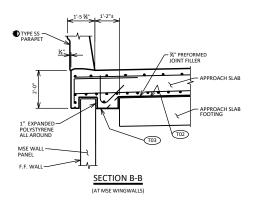


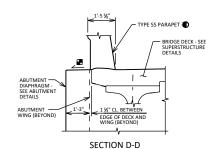


SECTION C-C

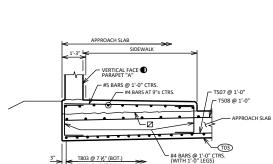
(AT WINGWALLS PARALLEL TO BRIDGE)







(AT WINGWALLS PARALLEL TO BRIDGE - A1 ABUT.)

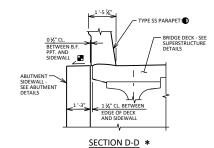


SECTION C-C *

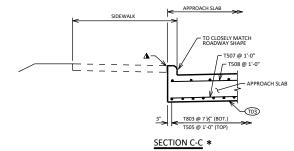
(AT WINGWALLS PARALLEL TO ABUT.)

LEGEND

- T02 STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING.
- T03 PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE BENEATH SLAB.
- ▲ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ¾" BELOW SURFACE OF CONCRETE).
- SEE PARAPET STANDARD DETAILS FOR REINFORCEMENT, LOCATION OF NAME PLATE AND BENCH MARK WITH RESPECT TO THE END OF PARAPET, ETC.
- CONST. JOINT-STRIKE OFF AS SHOWN AND LEAVE ROUGH. FOR DECK POUR MATCH BRIDGE X-SLOPE.
- SLOPE TO DRAIN
- * SECTION REPRESENTATIVE OF SIMILAR LOCATION AS SHOWN ON STANDARD 12.10 FOR DIFFERENT APPLICATION.



(AT WINGWALLS PARALLEL TO BRIDGE - A3 ABUT.)



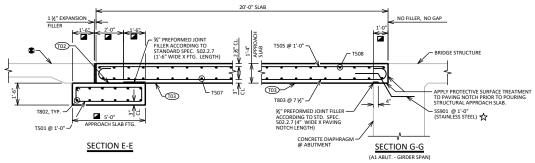
(AT WINGWALLS PARALLEL TO ABUT.)



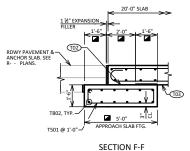


SECTIONS A-A THRU G-G ARE FROM STANDARD 12.10

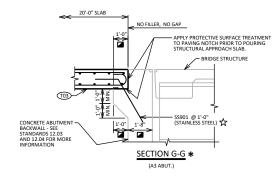
APPROVED: Laura Shadewald 1-20

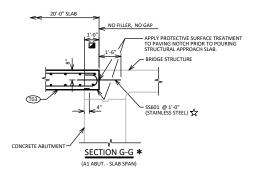


SECTION THRU APPROACH SLAB



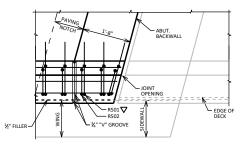
(AT MSE WINGWALLS WITH ANCHOR SLAB)





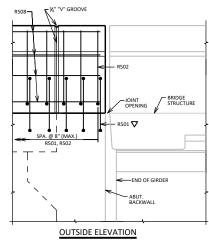
LEGEND

- TO2 STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING.
- TO3 PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE BENEATH SLAB.
- MEASURED NORMAL TO ABUTMENT
- FOLLOW FDM 14-10-25 REQUIREMENTS FOR ROADWAY APPROACH PAVEMENT.
- * SECTION REPRESENTATIVE OF SIMILAR LOCATION AS SHOWN ON STANDARD 12.10 FOR DIFFERENT APPLICATION.
- THE BID ITEM FOR SS901 AND SS601 BARS SHALL BE STANDARD SPECIAL PROVISION "BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES".
- ▼ R501 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL AND ABUT. STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.



PLAN

(PARAPET ON STRUCTURAL APPROACH SLAB AT A3 ABUT.)



(PARAPET ON STRUCTURAL APPROACH SLAB AT A3 ABUT.)
(WING NOT SHOWN FOR CLARITY)

DESIGNER NOTES

SEE CHAPTER 30 FOR PARAPETS ON STRUCTURAL APPROACH SLAB DETAILS.

SECTIONS A-A THRU G-G ARE FROM STANDARD 12.10

STRUCTURAL APPROACH SLAB DETAILS 2



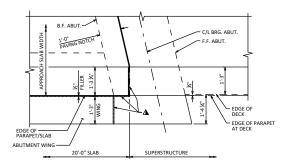
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B.F. ABUT. C/L BRG. ABUT. - EDGE OF SLAB - EDGE OF PARAPET AT SLAB ABUTMENT WING 20'-0" SLAB SUPERSTRUCTURE

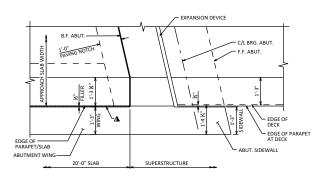
APPROACH SLAB PARTIAL PLAN

(AT WINGWALLS PARALLEL TO BRIDGE - A1 ABUT. - SLAB SPAN)



APPROACH SLAB PARTIAL PLAN

(AT WINGWALLS PARALLEL TO BRIDGE - A1 ABUT. - GIRDER SPAN)

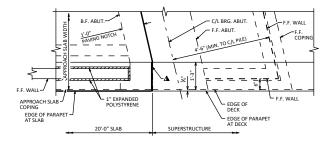


APPROACH SLAB PARTIAL PLAN *

(AT WINGWALLS PARALLEL TO BRIDGE - A3 ABUT. - GIRDER SPAN)

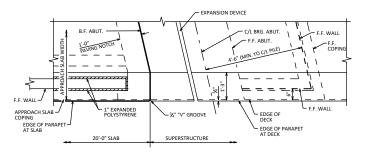
LEGEND

- SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 'X" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 'X" BELOW SURFACE OF CONCRETE).
- PARTIAL PLAN REPRESENTATIVE OF SIMILAR LOCATION AS SHOWN ON STANDARD 12.10 FOR DIFFERENT APPLICATION.



APPROACH SLAB PARTIAL PLAN *

(AT WINGWALLS PARALLEL TO BRIDGE - A1 ABUT. AT MSE WINGWALLS - GIRDER SPAN)



APPROACH SLAB PARTIAL PLAN *

(AT WINGWALLS PARALLEL TO BRIDGE - A3 ABUT. AT MSE WINGWALLS - GIRDER SPAN)

PARTIAL PLANS SHOWN HERE ARE FROM STANDARD 12.10

STRUCTURAL APPROACH **SLAB DETAILS 3**



APPROVED: Laura Shadewald

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STANDARD 12.13