

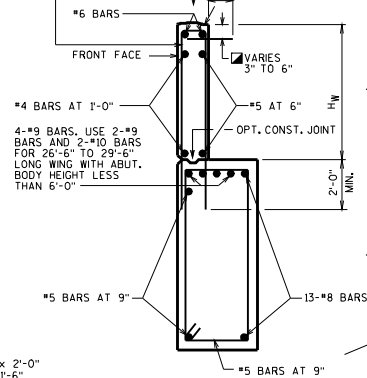
WING ELEVATION
WING LENGTH TO 26'-6"

MAINTAIN 2" CLEAR FROM SLOPING UNDERSIDE OF DECK OVERHANG. PROVIDE TOP OF SIDE WALL ELEVATION ON PLAN. SLOPE TOP IF NECESSARY FOR WIDE-FLANGED GIRDERS.

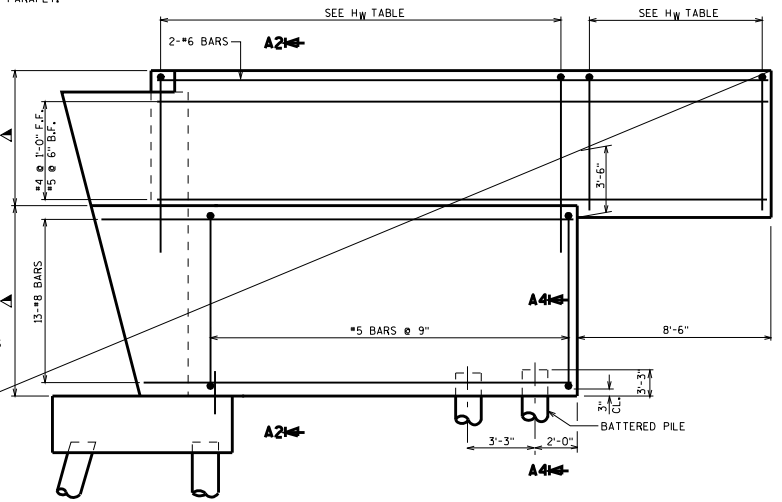
H _w	STEEL RAIL	CONC. RAIL
≤ 7'-0"	#6 @ 9"	#5 @ 1'-0"
7'-0"-9'-0"	#6 @ 9"	#5 @ 6"

DETAIL FOR TYPE "LF", "HF", "PF", OR "5F" PARAPET SHOWN. SEE STD. 12.02 "TOP OF WING DETAILS" FOR OTHER RAILING & PARAPET TREATMENTS.

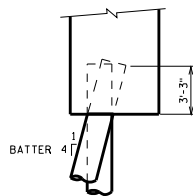
FINISH HORIZONTAL SURFACES NOT COVERED BY PARAPET.



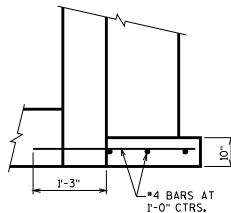
SECTION A2
ALL WING LENGTHS



WING ELEVATION
WING LENGTH OVER 26'-6" TO 29'-6"



SECTION A4



SECTION A5

DESIGNER NOTES

BODY IS DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 40 P.S.F., 1'-6" SURCHARGE AND SUPERSTRUCTURE REACTIONS "P".

WINGS ARE DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 35 P.S.F. AND A 2'-0" SURCHARGE. A 5 KIP LATERAL RESISTANCE IS USED FOR EACH WING PILE.

FRONT ROW PILES ARE DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 40 P.S.F. WITH $\gamma_{DEH} = 1.50$, AND SUPERSTRUCTURE REACTIONS "P". BACK ROW PILE DESIGN IS BASED ON AN EQUIVALENT FLUID PRESSURE OF 20 P.S.F. WITH $\gamma_{DEH_{MIN}} = 0.90$, AND "P".

UNIT WEIGHT OF SOIL IS ASSUMED AS 120 P.C.F.

BRIDGE SEATS BETWEEN BEARINGS SHALL SLOPE 1" FROM FRONT FACE OF BACKWALL.

PAY LIMITS FOR EXCAVATION FOR STRUCTURES & GRANULAR BACKFILL IS SHOWN IN CHAPTER 12 OF THE BRIDGE MANUAL.

ALL WING BARS SHALL BE EPOXY COATED.

WHEN TYPE "F", "W" OR "M" RAILING IS USED, LOCATE NAME PLATE ON FIRST RIGHT WING TRAVELING UP STATION.

FOR MODULAR EXPANSION JOINTS W/CONC. DIAPH. RUNNING TO EDGE OF DECK: IF SIDEWALL IS USED, FORM SIDEWALL 2" BELOW CONC. DIAPH.

■ #4 DOWELS (COATED), 2'-0" LG. AT 1'-0" CTRS. FROM WING TIP TO PAVING NOTCH, PLACE IN WING ADJACENT TO SURFACE DRAIN APRON ONLY.

▲ DIMENSIONS TO BE CONSTANT.

LRFD DESIGN LOADS

LIVE LOAD
 BODY = 1'-6" SURCHARGE
 WINGS = 2'-0" SURCHARGE
 HORIZ. EARTH LOAD (EQUIV. FLUID PRESSURE)
 BODY = 40 P.S.F.
 WINGS = 35 P.S.F.
 LOAD FACTORS:
 $\gamma_{DDC} = 1.25$
 $\gamma_{DOW} = 1.50$
 $\gamma_{DEH} = 1.50$
 $\gamma_{DEH_{MIN}} = 0.90$
 $\gamma_{DEV} = 1.35$
 $\gamma_{LL} = 1.75$
 EXPOSURE CLASS 2, $\gamma_{E} = 0.75$
 $f_y = 60,000$ P.S.I.
 $f'_c = 3,500$ P.S.I.

**ABUTMENT A4
PILE FOOTING**

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 STRUCTURES DEVELOPMENT SECTION

APPROVED: Scot Becker

DATE:
1-09