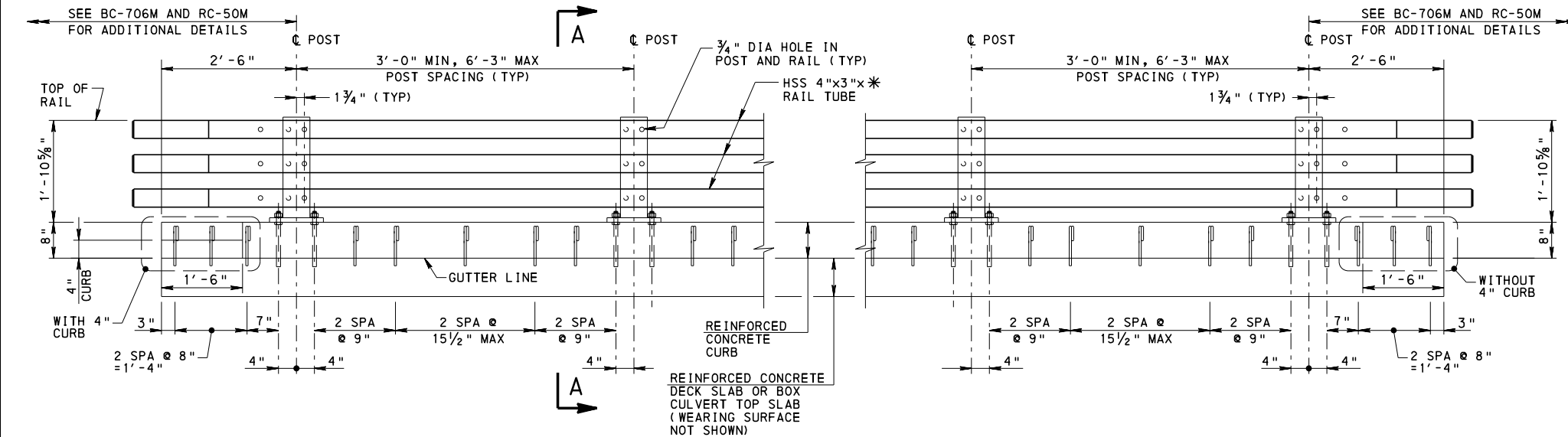
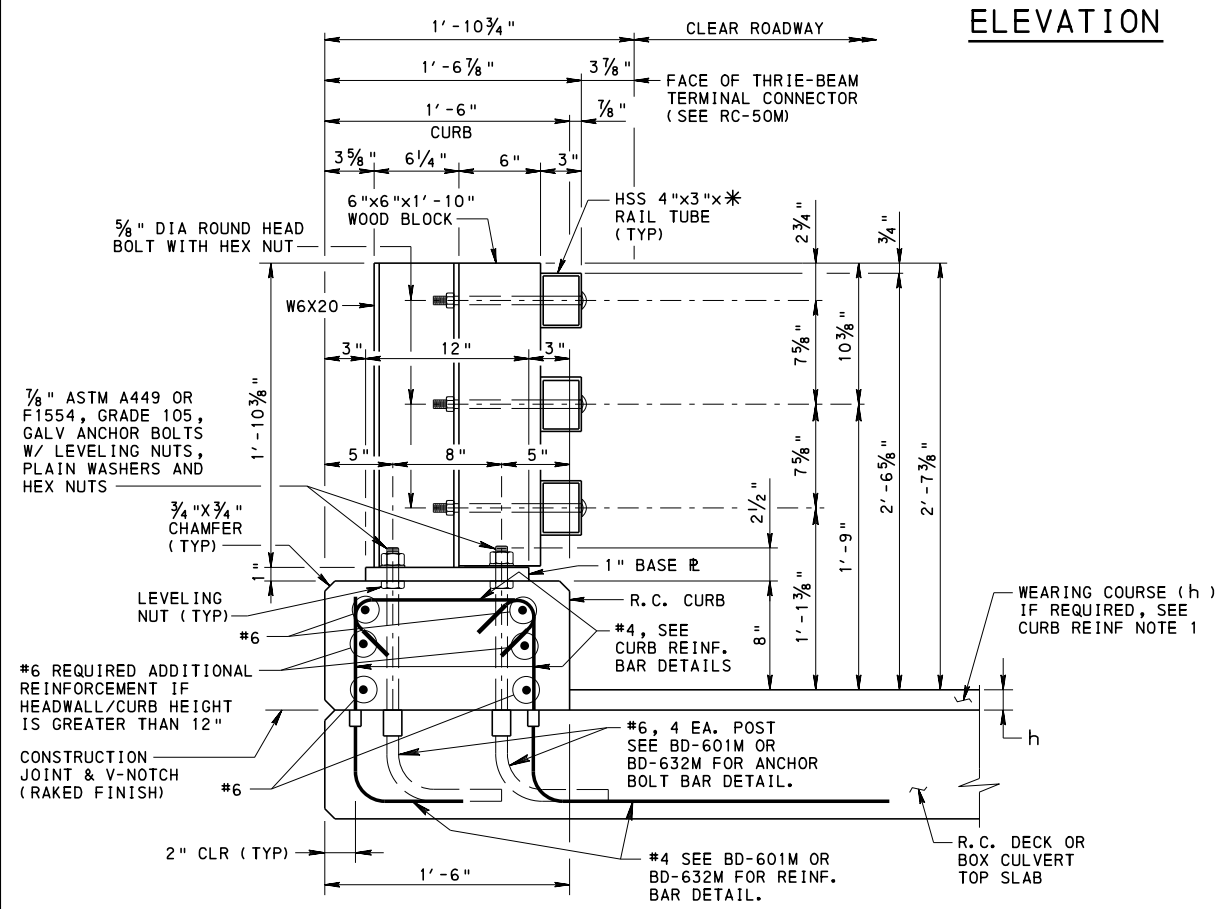


PLAN



ELEVATION

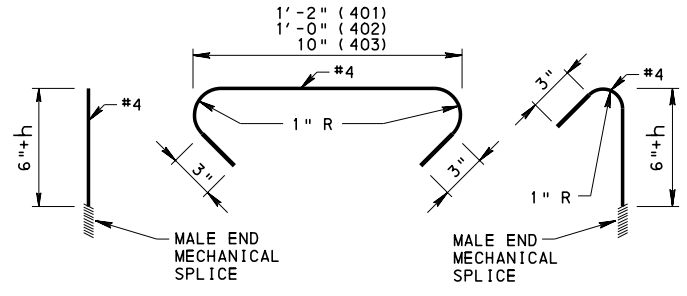


SECTION A-A

NOTE:
PRIOR TO CONSTRUCTING CURB AND DECK, ANCHOR BOLTS SHALL BE INSTALLED WITH EITHER A TEMPLATE OR ACTUAL POST W/ BASEPLATE INSTALLED TO ENSURE PROPER ANCHOR BOLT ALIGNMENT & PLACEMENT.

DECK REINFORCEMENT NOT SHOWN FOR CLARITY

* FOR TUBE THICKNESS, SEE TUBE RAIL SPECIFICATIONS TABLE ON BC-706M.



CURB REINFORCEMENT BAR DETAILS

1. 2 1/2" MIN, 11" MAX COMBINATION FILL AND OVERLAY TOTAL WEARING COURSE THICKNESS (h)

CURB REINFORCEMENT BAR DETAILS

MECHANICAL SPLICES PRECAST INTO DECK OR TOP SLAB. MECHANICAL SPLICES AS LISTED IN BULLETIN 15

RC-50M	GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS
BD-601M	CONCRETE DECK SLAB
BD-632M	R. C. BOX CULVERT
BC-706M	PA 3-RAIL BRIDGE BARRIER
BC-734M	ANCHOR SYSTEMS

REFERENCE DRAWINGS

NOTES:

1. THE PA 3-RAIL BRIDGE BARRIER IS DESIGNATED AS MASH TL-3.
2. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH PUBLICATION 408.
3. LOCATE RAIL SPLICES AT EXPANSION JOINTS AND AT OTHER LOCATIONS WHERE NECESSARY. PROVIDE RAILS AS LONG AS PRACTICAL, WITH A MINIMUM OF THREE POSTS BETWEEN SPLICES, UNLESS OTHERWISE REQUIRED FOR EXPANSION. SEE BC-706M FOR RAILING JOINT DETAILS.
4. PROVIDE RAIL TUBES CONTINUOUS OVER NOT LESS THAN TWO RAILING POSTS. NO WELDED BUTT SPLICES WILL BE ALLOWED IN THE RAIL TUBE SECTIONS.
5. LOCATE CENTERLINE OF POST 1'-0" MINIMUM FROM AN EXPANSION JOINT.
6. LOCATE A SCUPPER OR METAL DRAIN 2'-6" MINIMUM FROM CENTER LINE OF POST.
7. PROVIDE A MINIMUM OF TWO RAILING POSTS.
8. USE $f'c = 3.5$ KSI CLASS AA CEMENT CONCRETE IN THE CURB.
9. PLACE POST AND POST ANCHOR BOLTS NORMAL TO GRADE AND RAILS PARALLEL TO GRADE.
10. COAT ALL SURFACES OF THE BASE PLATE IN CONTACT WITH CONCRETE WITH CAULKING COMPOUND PRIOR TO ERECTION. AFTER ERECTION AND ALIGNMENT, SEAL OPENINGS BETWEEN METAL SURFACES AND THE CONCRETE WITH CAULKING COMPOUND MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 705.7(b).
11. DO NOT USE DEFLECTION JOINTS IN THE CURB WITH PA 3-RAIL BRIDGE BARRIERS.
12. PROVIDE POST SPACINGS ON THE PLANS.
13. FOR LOCATION OF DRAIN HOLES IN RAIL TUBES, SEE BC-706M.
14. THE MAXIMUM JOINT MOVEMENT FOR THE PA 3-RAIL BRIDGE BARRIER IS 9".
15. CALCULATE THE DEAD LOAD (LB/FT) OF THE PA 3-RAIL BRIDGE BARRIER USING THE FOLLOWING FORMULA:
 $WEIGHT = (110 \text{ LBS/AVERAGE POST SPACING}) + 25 \text{ LBS (RAIL TUBE WEIGHT)} + (\text{CURB WEIGHT})$
 - THE 110 LBS INCLUDES THE WEIGHT OF THE POST, WOOD BLOCK AND TUBE-TO-POST BOLTS.
 - THE RAIL TUBE WEIGHT IS BASED ON 3 RAILS WITH A 3/16" WALL THICKNESS (3x8.15 LBS/FT).

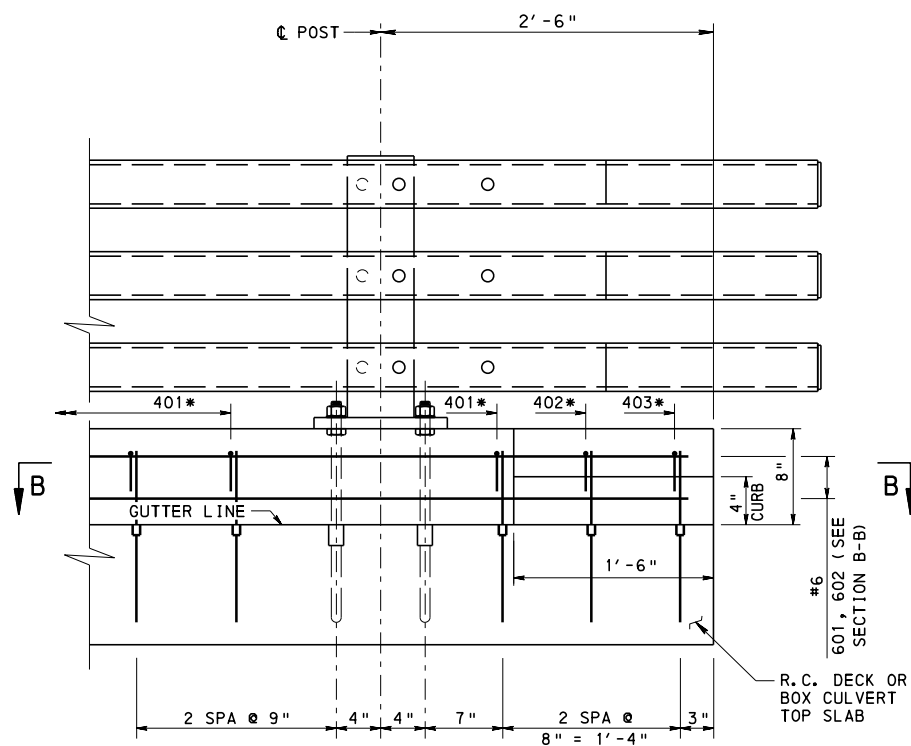
CHANGE 6

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGE

STANDARD

PA 3-RAIL BRIDGE BARRIER
BARRIER DETAILS - 1

RECOMMENDED FEB. 14, 2023
 CHIEF BRIDGE ENGINEER
 RECOMMENDED FEB. 14, 2023
 CHIEF ENGINEER, HIGHWAY ADMIN
 SHEET 1 OF 2
 BD-609M



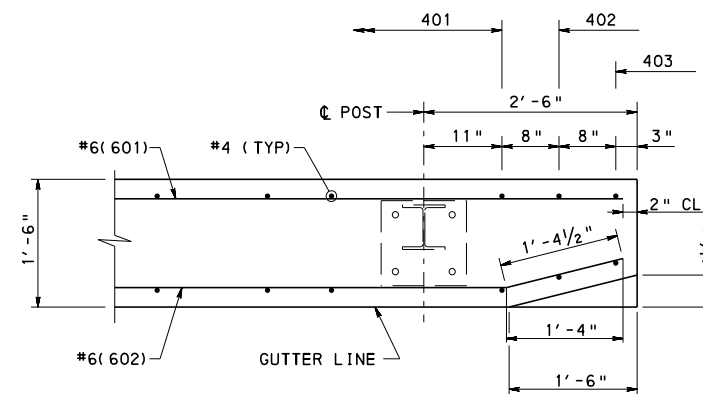
* SEE CURB REINFORCEMENT BAR DETAILS, SHEET 1.

ELEVATION

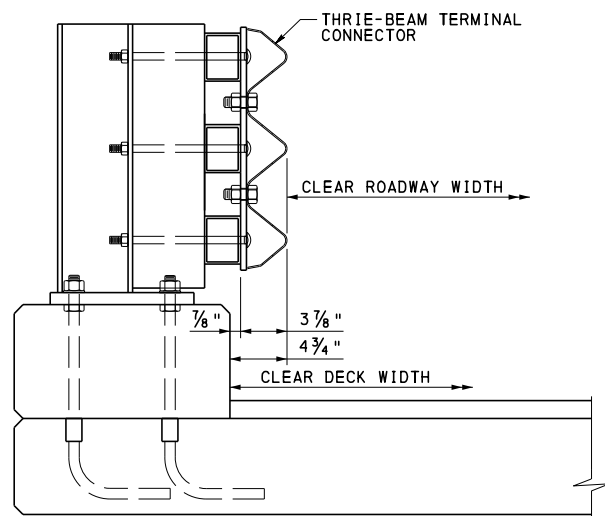
(WEARING COURSE NOT SHOWN)

PA 3-RAIL BRIDGE BARRIER END TRANSITION

(WITH CURB SHOWN, WITHOUT CURB SIMILAR)
(GUIDE RAIL, CONNECTION PLATE AND
BOLTS OMITTED FOR CLARITY)



SECTION B-B



CLEAR ROADWAY WIDTH DETAIL

CLEAR DECK WIDTH INCLUDES CLEAR ROADWAY WIDTH PLUS 4 3/4" ON BOTH SIDES AT THE BARRIER FOR THRIE-BEAM TERMINAL CONNECTOR WIDTH.

NOTES:

1. FOR ADDITIONAL REINFORCEMENT DETAILS, SEE SHEET 1.
2. DIMENSIONS ALONG BARS ARE MEASURED ALONG THE OUTSIDE EDGE.
3. FOR ADDITIONAL NOTES, SEE SHEET 1.

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF BRIDGE**

STANDARD

**PA 3-RAIL BRIDGE BARRIER
BARRIER DETAILS - 2**

RECOMMENDED FEB. 14, 2023
L. W. [Signature]
CHIEF BRIDGE ENGINEER

RECOMMENDED FEB. 14, 2023
Gavin E. Gray
CHIEF ENGINEER, HIGHWAY ADMIN.

SHEET 2 OF 2
BD-609M