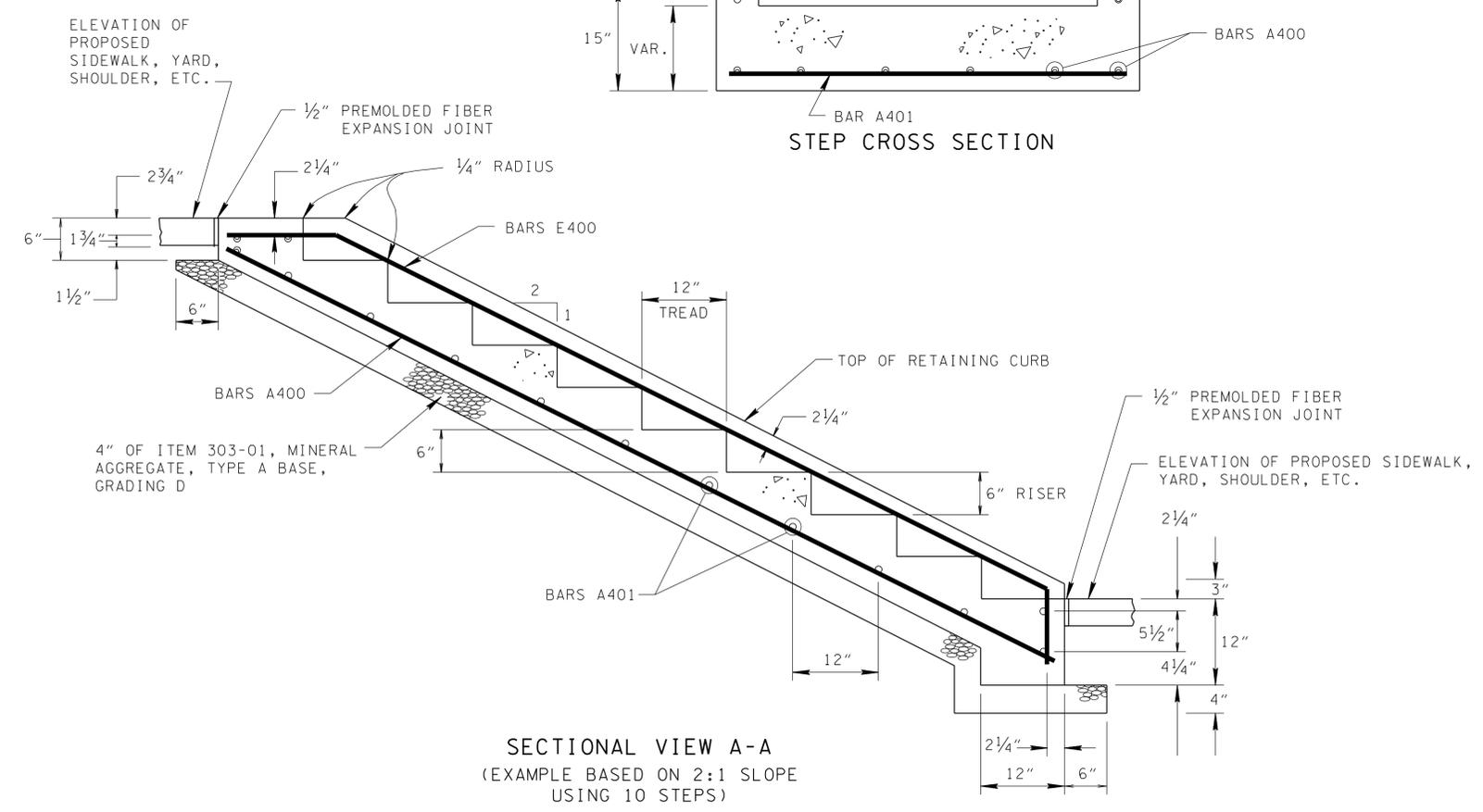
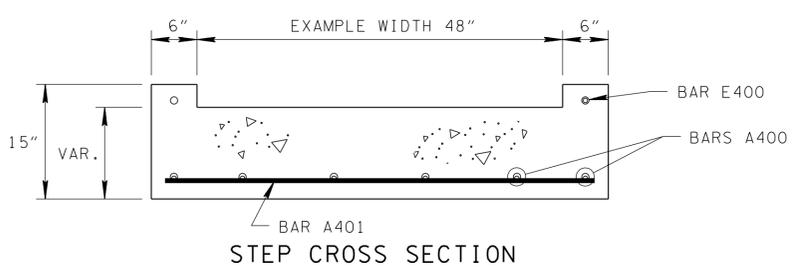
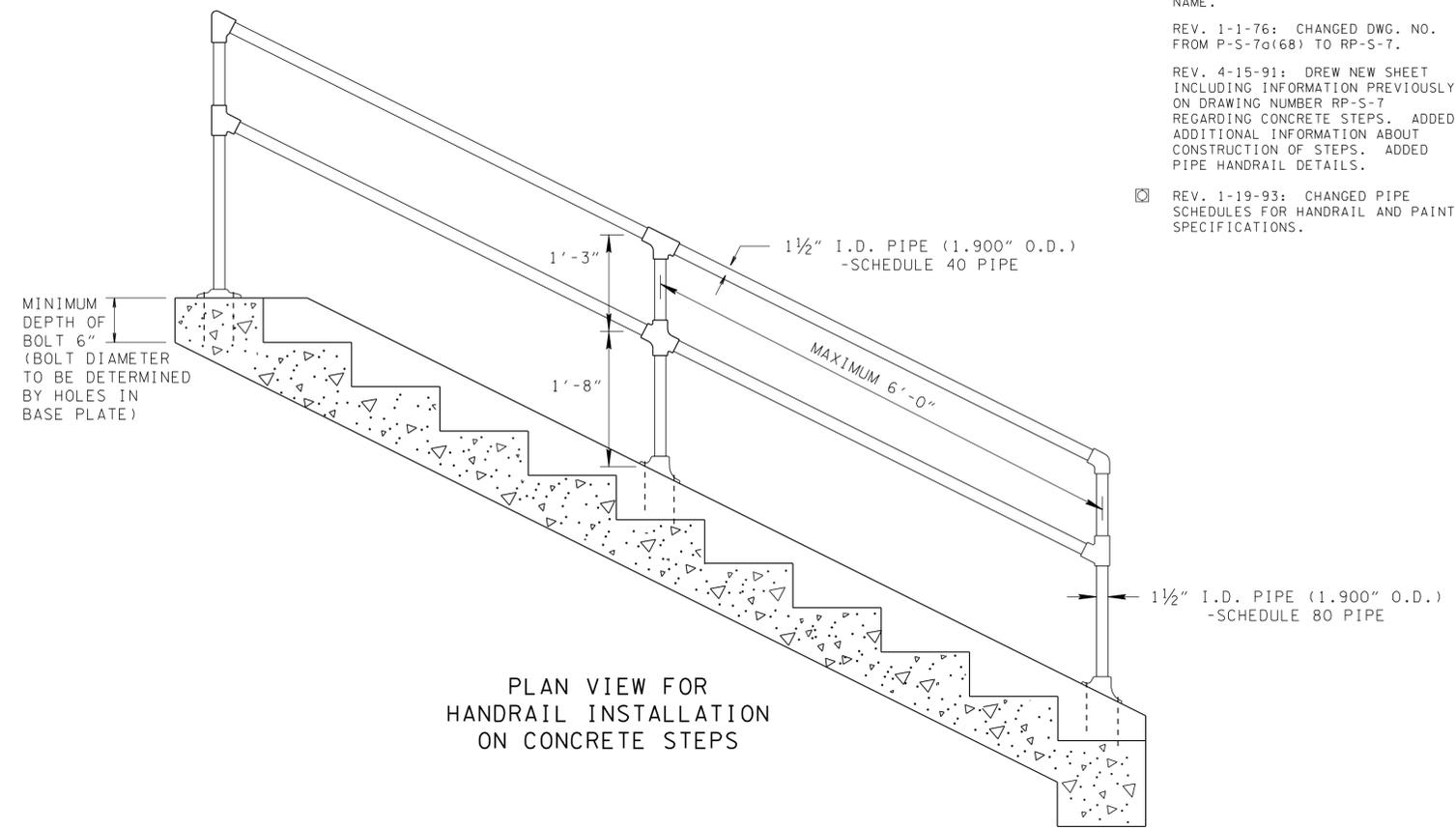
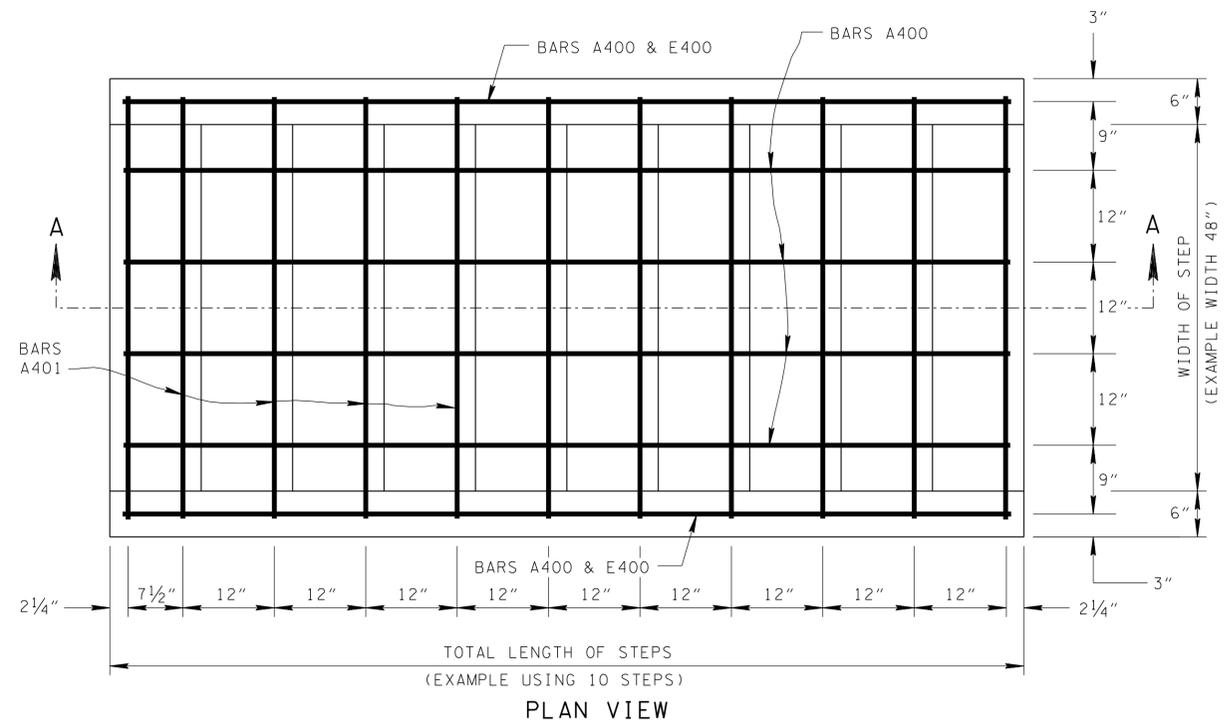


REV. 7-1-72: CHANGED DEPARTMENT NAME.
 REV. 1-1-76: CHANGED DWG. NO. FROM P-S-7a(68) TO RP-S-7.
 REV. 4-15-91: DREW NEW SHEET INCLUDING INFORMATION PREVIOUSLY ON DRAWING NUMBER RP-S-7 REGARDING CONCRETE STEPS. ADDED ADDITIONAL INFORMATION ABOUT CONSTRUCTION OF STEPS. ADDED PIPE HANDRAIL DETAILS.
 REV. 1-19-93: CHANGED PIPE SCHEDULES FOR HANDRAIL AND PAINT SPECIFICATIONS.



- HANDRAIL GENERAL NOTES**
- (H1) PIPE CROSS MEMBERS ARE TO ADHERE TO SPECIFICATION ASTM A 53 TYPE E OR S-GRADE A OR B.
 - (H2) PIPE HANDRAIL IS TO BE PAINTED BLACK IN COLOR AND ADHERE TO FEDERAL SPECIFICATION TT-E-489H.
 - (H3) THIS PIPE HANDRAIL IS TO BE USED ONLY AS A PROTECTION FOR PEDESTRIANS AND SHOULD NOT BE PLACED IN ANY LOCATION WHERE IT MIGHT BE SUBJECT TO VEHICULAR IMPACT. FOR VEHICULAR PROTECTION STANDARD GUARD RAIL SHOULD BE USED.
 - (H4) THE PIPE HANDRAIL IS TO BE PAID FOR UNDER ITEM NO. 604-01.04, 1 1/2" STEEL PIPE HANDRAIL PER LINEAR FEET.
 - (H5) THE PIPE HANDRAIL SHALL BE REQUIRED WITH FIVE OR MORE STEPS AND WILL MEET THE FOLLOWING CONDITIONS:
 - ① ON STEPS LESS THAN 44 INCHES WIDE HAVING BOTH SIDES ENCLOSED, AT LEAST ONE HANDRAIL PREFERABLY ON THE RIGHT SIDE DESCENDING.
 - ② ON STEPS LESS THAN 44 INCHES WIDE HAVING ONE SIDE OPEN, ONE HANDRAIL ON EACH SIDE.
 - ③ ON STEPS LESS THAN 44 INCHES WIDE HAVING BOTH SIDES OPEN, ONE HANDRAIL ON EACH SIDE.
 - ④ ON STEPS MORE THAN 44 INCHES WIDE BUT LESS THAN 88 INCHES WIDE, ONE HANDRAIL ON EACH SIDE.
 - ⑤ ON STEPS 88 OR MORE INCHES WIDE, ONE HANDRAIL ON EACH SIDE, AND ONE INTERMEDIATE HANDRAIL LOCATED APPROXIMATELY MIDWAY OF THE WIDTH.

- CONCRETE STEP GENERAL NOTES**
- (C1) FOR SPECIFICATIONS SEE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION.
 - (C2) CONCRETE STEPS MAY BE CAST IN PLACE OR PRECAST. ALL CONCRETE CAST IN PLACE TO BE CLASS "A". ALL PRECAST TO BE 4000 POUNDS PER SQUARE INCH.
 - (C3) ALL EXPOSED EDGES ARE TO BE ROUNDED USING A QUARTER INCH RADIUS.
 - (C4) THE TREAD IS TO BE TWELVE INCHES DEEP. THE RISER HEIGHT IS TO BE VARIED SO AS TO CONFORM TO THE PROPOSED SLOPE. A MAXIMUM RISER HEIGHT OF NINE INCHES IS NOT TO BE EXCEEDED.
 - (C5) CONCRETE JOINT MATERIAL TO BE 1/2" PREMOLDED FIBER IN ACCORDANCE WITH SECTION 905 OF THE STANDARD SPECIFICATIONS. COST OF JOINT MATERIAL WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
 - (C6) ALL REINFORCING STEEL TO ADHERE TO SPECIFICATION ASTM A 615. ALL REINFORCING STEEL TO BE NO. 4 BARS.
 - (C7) THE COST OF EXCAVATION BELOW LEVEL ON PROPOSED SLOPE TO BE INCLUDED IN THE COST OF OTHER ITEMS.
 - (C8) PAYMENT FOR CONCRETE STEPS WILL BE MADE AS FOLLOWS:
 - ITEM NO. 604-01.01, CLASS "A" CONCRETE (ROADWAY) PER CUBIC YARD.
 - ITEM NO. 604-01.02, STEEL BAR REINFORCEMENT (ROADWAY) PER POUND.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.