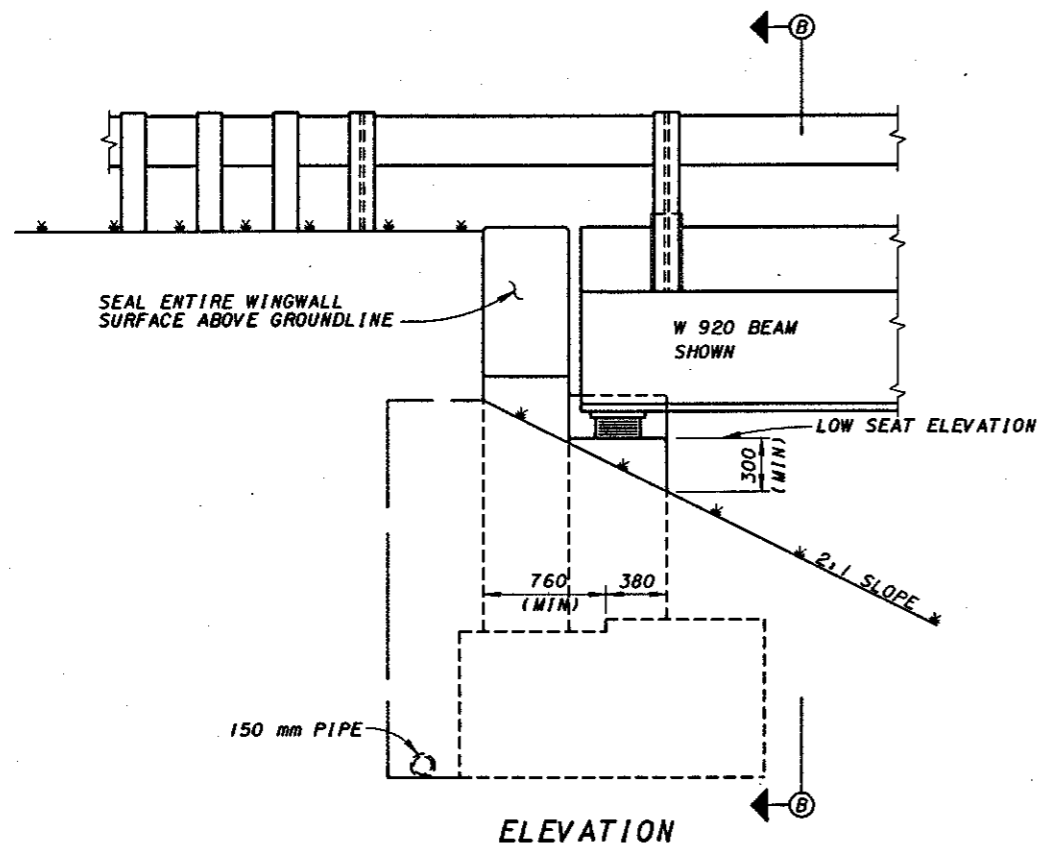
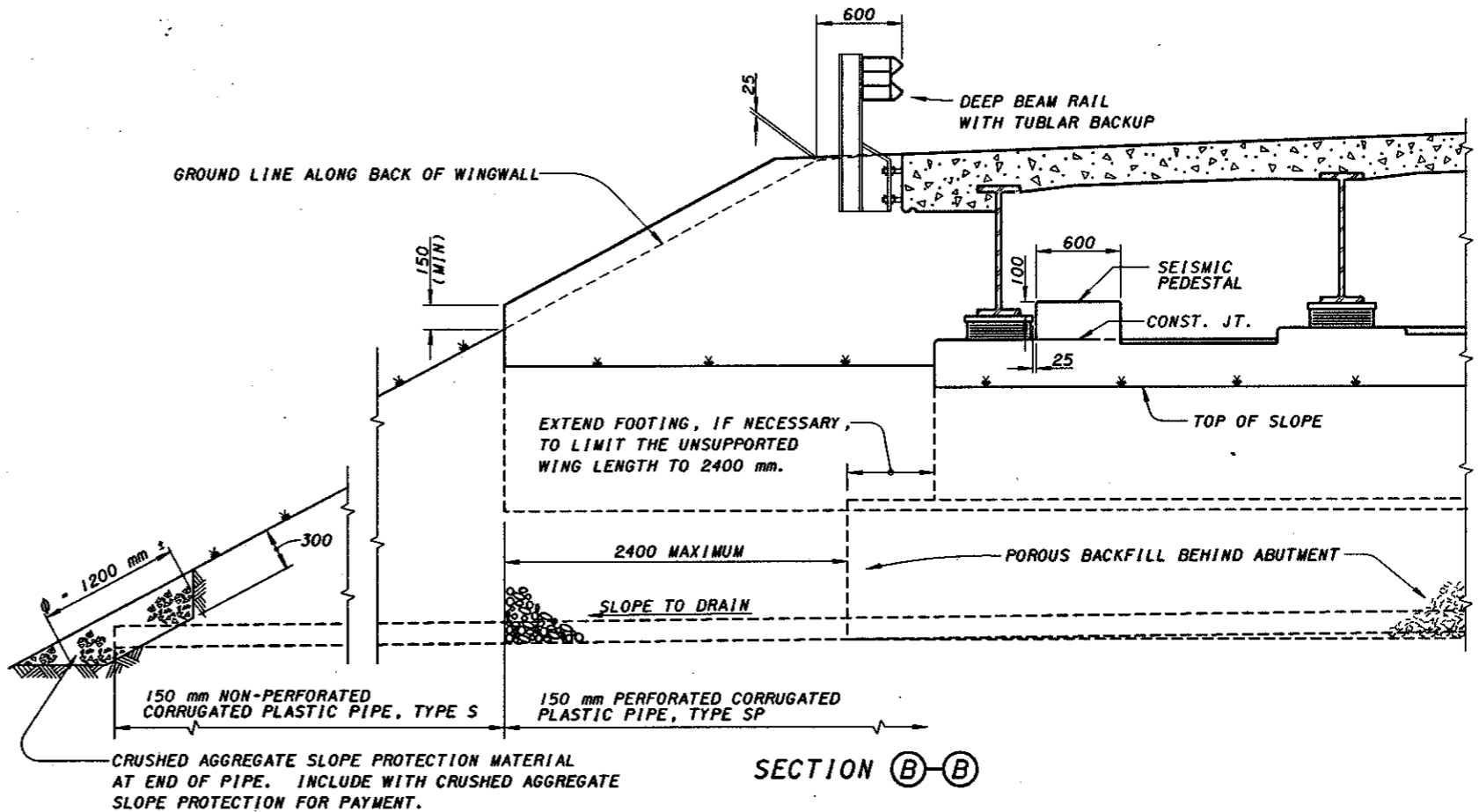


PART PLAN



ELEVATION

SEE SHEET 4/5 FOR SECTION A-A.
SEE SHEET 5/5 FOR PEDESTAL DETAILS.



SECTION B-B

GENERAL NOTES

GENERAL: THESE DRAWINGS PROVIDE INFORMATION FOR THE DESIGNER AND ARE NOT INTENDED FOR USE AS CONSTRUCTION DRAWINGS. THE PROJECT PLANS FOR EACH STRUCTURE WILL SHOW SPAN LENGTHS, ROADWAY WIDTHS, SKEW, CURVE, AND SUPERELEVATION (IF ANY), ELEVATIONS, SLAB REINFORCEMENT DETAILS IN PLAN AND CROSS SECTIONS, ESTIMATED QUANTITIES, REINFORCING STEEL LIST AND OTHER NECESSARY DETAILS AND SPECIAL NOTES.

THE DETAILS SHOWN ARE TYPICAL FOR THE AVERAGE STEEL BEAM AND SHALLOW STEEL GIRDER BRIDGE ABUTMENTS SUPPORTED ON PILES, ON NEWLY COMPACTED EMBANKMENT OR ON BEDROCK. (IF THE TOP SURFACE OF BEDROCK IS NEAR THE BRIDGE SEAT ELEVATION THESE DETAILS WILL NOT APPLY.)

FOR DEEP GIRDER BRIDGES OR SUPERELEVATED BEAM BRIDGES, THE BACKWALLS, WINGWALLS AND WINGWALL FOOTINGS MAY REQUIRE WIDENING AND/OR ADDITIONAL REINFORCING. WINGWALL FOOTINGS MAY REQUIRE AN ADDITIONAL ROW OF PILES.

DESIGN SPECIFICATIONS: THIS STANDARD DRAWING CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1992, INCLUDING THE 1993 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING: MS18 AND THE ALTERNATE MILITARY LOADING

DESIGN DATA:

CONCRETE CLASS C - COMPRESSIVE STRENGTH 28 MPa (SUBSTRUCTURE)

REINFORCING STEEL - ASTM A615M, A616M OR A617M GRADE 400, MINIMUM YIELD STRENGTH 400 MPa, AND SHALL BE EPOXY COATED.

SEALING OF CONCRETE SURFACES: AN EPOXY-URETHANE OR EPOXY SEALER SHALL BE APPLIED TO THE SURFACES SHOWN IN THESE DRAWINGS. THESE SEALING LIMITS SHALL BE SHOWN ON THE PROJECT PLANS.

METRIC DIMENSIONS: ALL DIMENSIONS GIVEN IN THIS STANDARD ARE IN MILLIMETERS.

POROUS BACKFILL: POROUS BACKFILL WITH FILTER FABRIC, 600 mm THICK SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE, TO 300 mm BELOW THE EMBANKMENT SURFACE, AND LATERALLY TO THE ENDS OF THE WINGWALLS. GEOTEXTILE FABRIC SHALL CONFORM WITH 712.09, TYPE A. THE BOTTOM OF THE POROUS BACKFILL SHALL BE SLOPED LATERALLY TO DRAIN. GEOTEXTILE FABRIC IS INCLUDED WITH POROUS BACKFILL FOR PAYMENT.

BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST LETTER IDENTIFIES THE BAR LOCATION. THE NEXT TWO DIGITS AND LETTER INDICATE THE METRIC BAR SIZE DESIGNATION, AND THE REMAINING DIGITS INDICATE THE SEQUENCE NUMBER.

EXAMPLE: A15M01
A.) A - LOCATION OF THE BAR IN THE STRUCTURE
B.) 15M - METRIC BAR SIZE DESIGNATION
C.) 01 - SEQUENCE NUMBER

SEISMIC PEDESTALS: TABLE A ON SHEET 5 OF 5 PROVIDES THE MAXIMUM ALLOWABLE SEISMIC LOAD PER PEDESTAL VERSUS PEDESTAL HEIGHT. ACTUAL SEISMIC LOAD (SHOWN AS V_u IN TABLE A) SHALL BE CALCULATED AS 0.2 TIMES THE TOTAL DEAD LOAD AT THE ABUTMENT. ACTUAL LOADS EXCEEDING THOSE SHOWN IN TABLE A WILL REQUIRE ADDITIONAL PEDESTALS.

PEDESTALS SHALL BE PLACED ON THE INSIDE OF EACH FASCIA BEAM. ANY ADDITIONAL PEDESTALS SHALL BE PLACED IN PAIRS IN ORDER TO RESIST LATERAL LOADS IN BOTH DIRECTIONS.

DESIGN MEMO
 BUREAU OF BRIDGES
 STRUCTURAL DESIGN
 STATE OF OHIO DEPARTMENT OF TRANSPORTATION
 Richard J. Engel
 ENGINEER OF BRIDGES
 3-20-95
 DATE
 REVISED
 CHECKED
 DESIGNED
 REVISIONS
 STANDARD
 STRAIGHT WING ABUTMENTS
 FOR BRIDGES WITH
 DEEP BEAM GUARD RAIL
 MPB/LAW
 MAA/JS
 CPD/SAM
 DMM
 NRB/SAM
 A-1-69M
 1/5