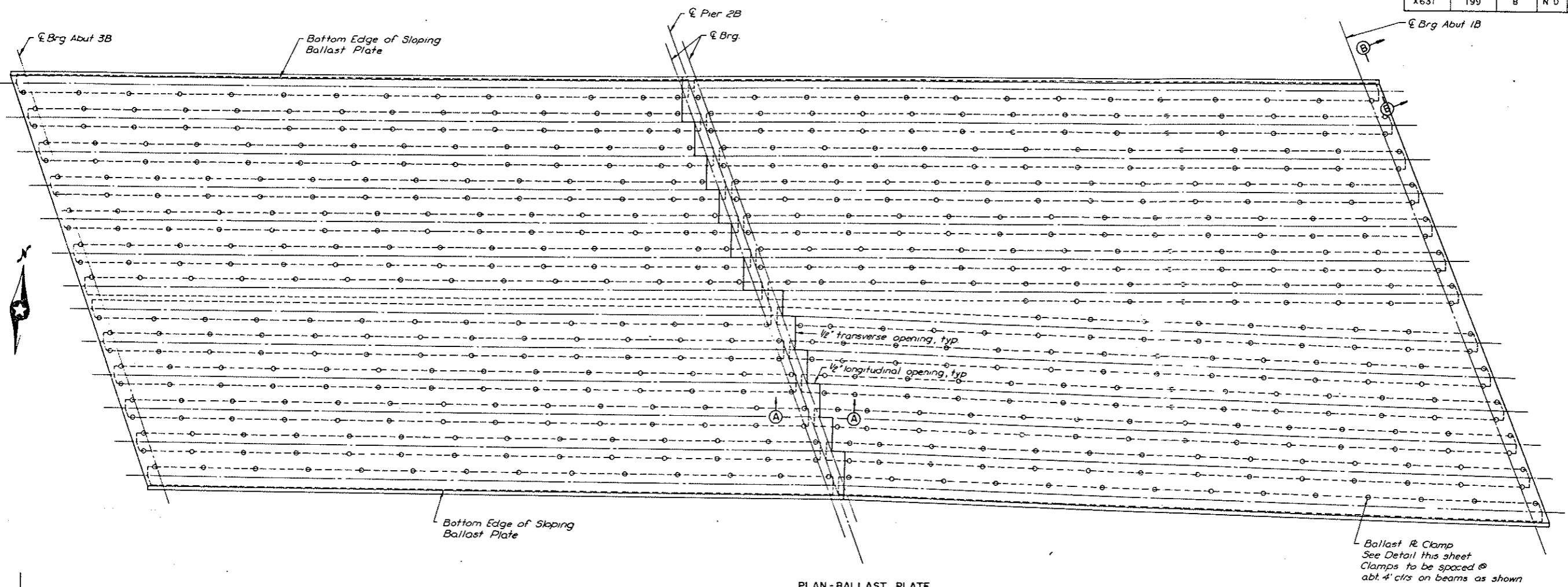
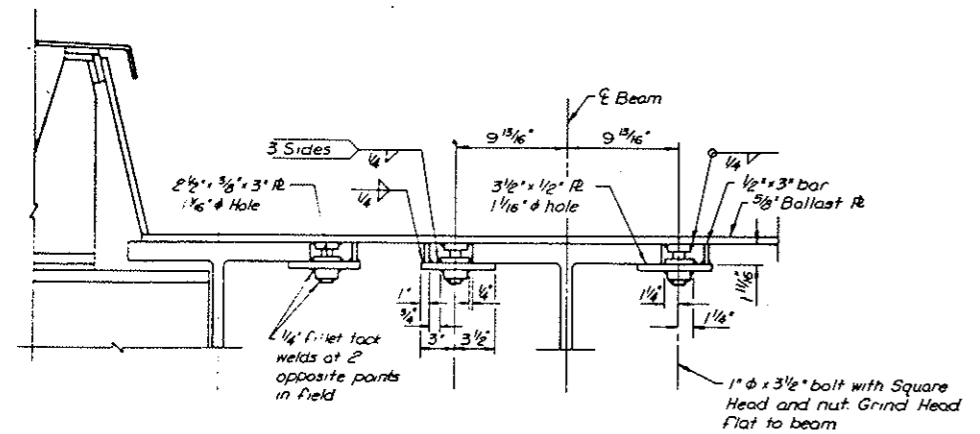


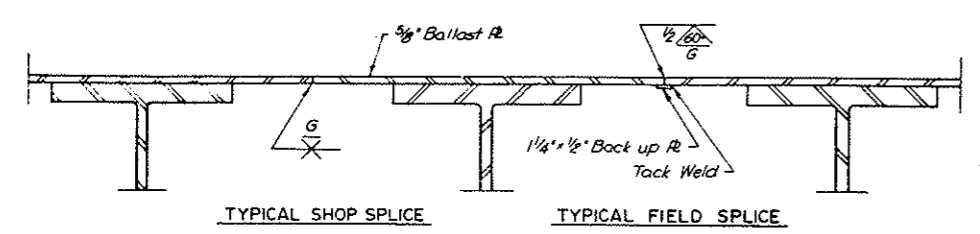
BRIDGE CODE	R.R. BRIDGE NO.	FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
X631	199	B	N D	MS-1-010 (05) 917		50	



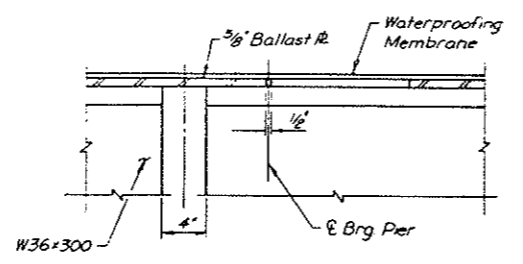
PLAN-BALLAST PLATE
Scale 1/4"=1'-0"



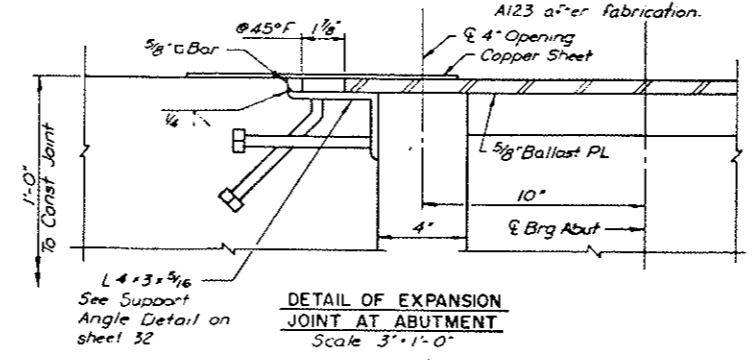
BALLAST PLATE CLAMPS
AT BEAMS
No Scale



BALLAST PLATE SPLICES
No Scale

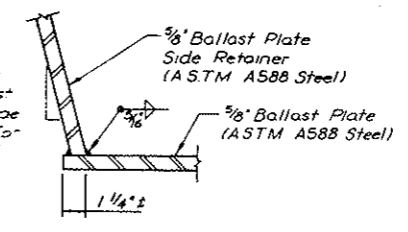


SECTION A-A
Scale 1/2"=1'-0"



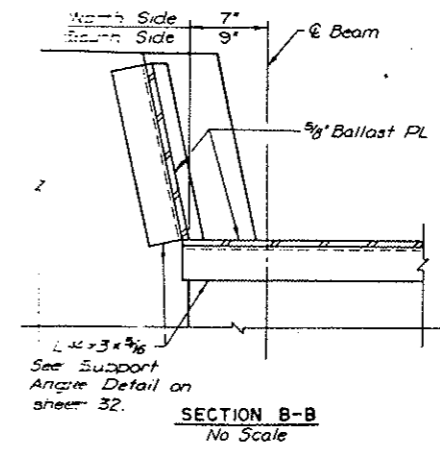
DETAIL OF EXPANSION
JOINT AT ABUTMENT
Scale 3"=1'-0"

Note:
At abutments grind
outside edge of ballast
plate flush with outside
face of side retainer - 2"
4 inches from ends of
ballast plates



SIDE RETAINER WELD DETAIL
Scale 3"=1'-0"

Note:
After final assembly of the
ballast plate, the support angles
of abutment expansion joints shall
be positioned for a snug fit against
the ballast plate and ballast plate
side retainers before placing of
abutment backwall concrete.
Expansion joint material in-
cluding support angle and copper sheet
and ballast plate clamps are included
in weight and paid for as Structural
Carbon Steel (A36).
The vertical sections of the ex-
pansion device are separate pieces.
The expansion joint device shall
be positioned snug against the ballast
plate and ballast plate side retainers
before pouring concrete in the cross-
hatched portion of the abutments as
shown on sheets 19 and 21.



SECTION B-B
No Scale

QUANTITIES	
High Strength Low Alloy	
Structural Steel (A588)	94,409 lbs
Structural Carbon Steel (A36)	4,570 lbs

BALLAST PLATE DETAILS
BRIDGE B
BURLINGTON NORTHERN, INC.
RAILWAY UNDERPASSES

U.S. HIGHWAY NO. 10
MORTON COUNTY