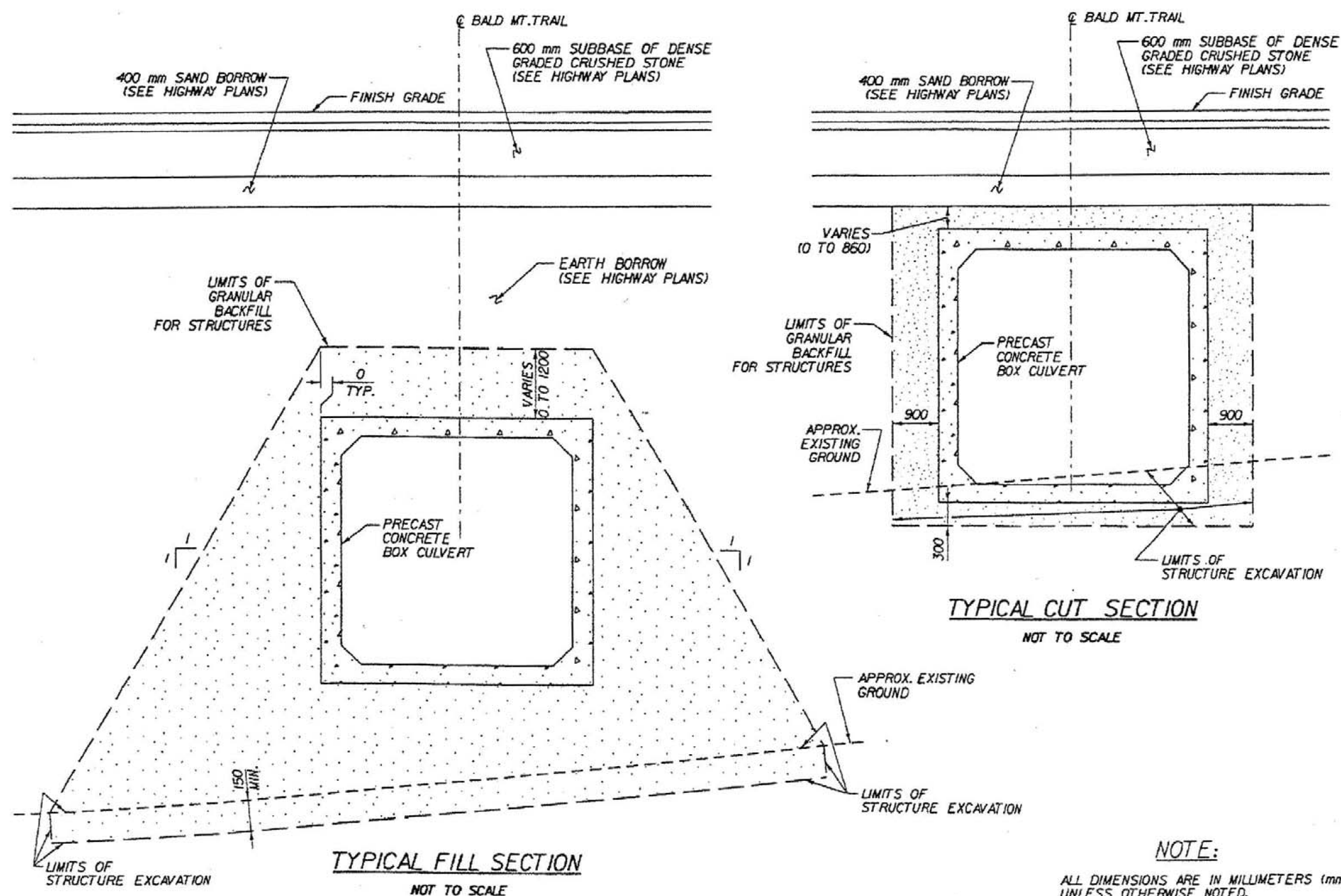


PRECAST CONCRETE BOX CULVERT TYPICAL SECTION
SCALE = 1/20



INDEX OF SHEETS

- BR300 PRELIMINARY INFORMATION SHEET
- BR301 PLAN AND PROFILE
- BR302-303 BORING INFORMATION SHEETS
- BR304-305 BORING LOGS

HYDROLOGIC DATA

DRAINAGE AREA: _____
 CHARACTER OF TERRAIN: _____
 CHARACTER & TYPE OF STREAM: _____
 NATURE OF STREAMBED: _____

02.33= _____ CMS 050= _____ CMS
 010= _____ CMS 0100= _____ CMS
 025= _____ CMS 0500= _____ CMS

DATE OF FLOOD OF RECORD: _____
 WATER SURFACE ELEV.: _____ ESTIMATED DISCHARGE: _____
 NATURAL STREAM VELOCITY @ 050 = _____ mps
 ICE CONDITIONS: _____ DEBRIS: _____
 DOES THE STREAM REACH MAXIMUM HIGHWATER ELEVATION RAPIDLY? _____
 IS ORDINARY BASE RAPID? _____
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? _____
 IF YES, DESCRIBE: _____

WATERSHED STORAGE: _____ HEADWATERS: _____ UNIFORM THROUGHOUT WATERSHED _____
 IMMEDIATELY ABOVE SITE _____

PROPOSED STRUCTURE

STRUCTURE TYPE: Precast concrete box underpass

CLEAR SPAN (NORMAL TO STREAM): N/A
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY OF FULL OPENING: N/A

WATER SURFACE ELEV. @ 02.33= _____ VELOCITY: _____ mps
 010= _____ " " " " _____ mps
 025= _____ " " " " _____ mps
 050= _____ " " " " _____ mps
 0100= _____ " " " " _____ mps

IS THE ROADWAY OVERTOPPED BELOW THE 0100? N/A FREQUENCY: N/A
 RELIEF ELEVATION: N/A DISCHARGE OVER ROAD @ 0100: N/A

AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: _____
 VERTICAL CLEARANCE @ 0100 = _____ m

SCOUR: Channel = N/A
 REQUIRED CHANNEL PROTECTION: N/A

EXISTING STRUCTURE

STRUCTURE TYPE: N/A YEAR BUILT: N/A
 CLEAR SPAN (NORMAL TO STREAM): N/A
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY OF FULL OPENING: N/A
 DISPOSITION OF STRUCTURE: N/A

TYPE OF MATERIAL UNDER SUBSTRUCTURE: N/A

WATER SURFACE ELEV. @ 02.33= _____ VELOCITY: _____ mps
 010= _____ " " " " _____ mps
 025= _____ " " " " _____ mps
 050= _____ " " " " _____ mps
 0100= _____ " " " " _____ mps

LONG TERM STREAM BED CHANGES: N/A

IS THE ROADWAY OVERTOPPED BELOW THE 0100? N/A FREQUENCY: N/A
 RELIEF ELEVATION: N/A DISCHARGE OVER ROAD @ 0100: N/A

UPSTREAM STRUCTURE: TOWN: N/A DISTANCE: _____
 HIGHWAY NO.: _____ STRUCTURE NO.: _____
 STRUCTURE TYPE: _____
 CLEAR SPAN: _____ CLEAR HEIGHT: _____
 YEAR BUILT: _____ FULL WATERWAY: _____

DOWNSTREAM STRUCTURE: TOWN: N/A DISTANCE: _____
 HIGHWAY NO.: _____ STRUCTURE NO.: _____
 STRUCTURE TYPE: _____
 CLEAR SPAN: _____ CLEAR HEIGHT: _____
 YEAR BUILT: _____ FULL WATERWAY: _____

(COMPLETE INFORMATION WILL BE PROVIDED ON FINAL PLANS)

PERMIT INFORMATION

AVERAGE DAILY FLOW: N/A
 ORDINARY LOW WATER: _____ CMS _____ ELEV.: _____
 ORDINARY HIGH WATER: _____ CMS _____ ELEV.: _____

TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: N/A
 CLEAR SPAN (NORMAL TO STREAM): N/A
 VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY OF FULL OPENING: N/A

DESIGN CRITERIA:

- DESIGN LIVE LOAD AASHTO MS-22.5
- DESIGN SPAN 3 METERS
- ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 290 kPa ON LEDGE N/A
- ALLOWABLE LOAD FOR PILING N/A TYPE N/A ESTIMATED LENGTH N/A
- STRUCTURAL STEEL AASHTO GRADE N/A
- REINFORCING STEEL GRADE 420
- CONCRETE, HIGH PERFORMANCE CLASS A $f_c \geq 30$ MPA
 CONCRETE, HIGH PERFORMANCE CLASS B $f_c \geq 25$ MPA

TRAFFIC MAINTENANCE:

- IS TRAFFIC TO BE MAINTAINED? NO IF YES, ON EXISTING STRUCTURE N/A OR ON TEMPORARY BRIDGE N/A
- TEMPORARY BRIDGE REQUIREMENTS: ONE OR TWO WAY N/A TRAFFIC CONTROL SIGNALS REQUIRED N/A
 MINIMUM CLEAR SPAN (NORMAL TO STREAM): N/A VERTICAL CLEARANCE ABOVE STREAMBED: N/A
 WATERWAY AT FULL OPENING: N/A
 ARE SIDEWALKS REQUIRED? N/A IF SO, ON WHAT SIDE? N/A

LOADING LEVELS (LOAD FACTOR)	LOAD RATING (TONS)					
	H	HS	352	6 AXLE	3A. STR.	4A. STR. 5A. SEVI
INVENTORY A = 2.17						
POSTED A = 1.55						
OPERATING A = 1.30						

RF = $\frac{M}{L} - 1.3 M$
 $A \times M_{LL+1}$

STATE OF VERMONT AGENCY OF TRANSPORTATION

Town Of BENNINGTON Bridge No. _____
 Highway No. _____ Log Sta. _____
 Surv. Sta. _____

VT ROUTE 279 OVER BALD MT. TRAIL

PRELIMINARY INFORMATION SHEET

Designed By S. BURBANK Drawn By S. BURBANK
 Checked By M. CHENETTE Date 11/04 Bridge Design Supervisor G. BOGUE Date _____

PROJECT BENNINGTON PROJECT NO. NH FOIS-115
 DH CAD Drawing Name: ...PlotFiles\BM\BM-FRAME.dwg Date: 11/12/2004
 Bridge Sheet No. BR300 Sheet 22 of 112