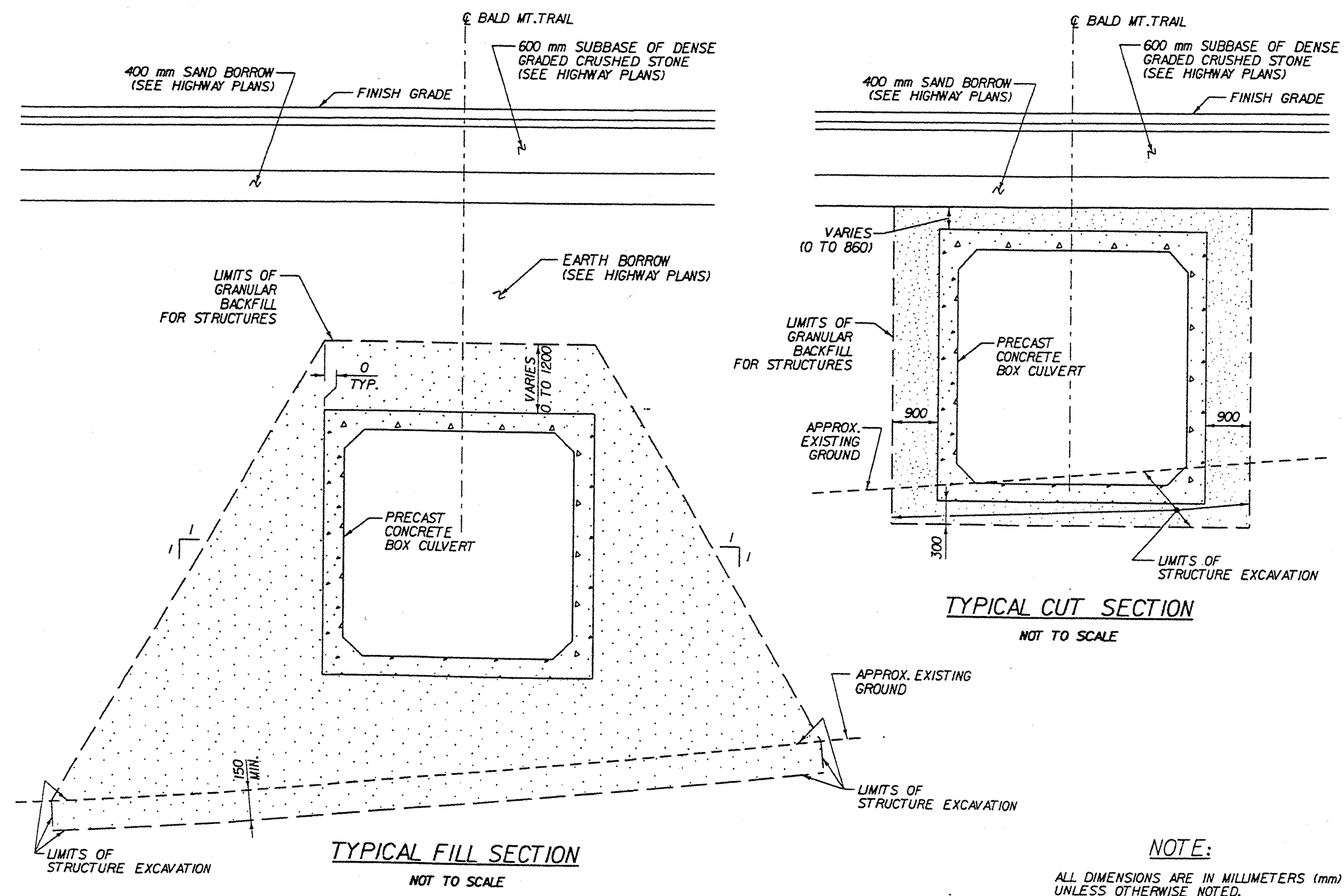


PRECAST CONCRETE BOX CULVERT TYPICAL SECTION
SCALE = 1:20

INDEX OF SHEETS

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



TYPICAL CUT SECTION
NOT TO SCALE

TYPICAL FILL SECTION
NOT TO SCALE

NOTE:
ALL DIMENSIONS ARE IN MILLIMETERS (mm)
UNLESS OTHERWISE NOTED.

FINAL HYDRAULICS REPORT **Metric**

HYDROLOGIC DATA

DRAINAGE AREA: _____
 CHARACTER OF TERRAIN: _____
 CHARACTER & TYPE OF STREAM: _____
 NATURE OF STREAMBED: _____
 Q2.33= _____ cms Q50= _____ cms
 Q10= _____ cms Q100= _____ cms
 Q25= _____ cms Q500= _____ cms
 DATE OF FLOOD OF RECORD: _____
 WATER SURFACE ELEV.: _____ ESTIMATED DISCHARGE: _____
 NATURAL STREAM VELOCITY @ Q50 = _____ 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. @ Q2.33= _____ VELOCITY= _____ mps
 Q10= _____ mps
 Q25= _____ mps
 Q50= _____ mps
 Q100= _____ mps
 IS THE ROADWAY OVERTOPPED BELOW THE Q100? N/A FREQUENCY: N/A
 RELIEF ELEVATION: N/A DISCHARGE OVER ROAD @ Q100: N/A
 AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: _____
 VERTICAL CLEARANCE @ D 100 = _____ 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. @ Q2.33= _____ VELOCITY= _____ mps
 Q10= _____ mps
 Q25= _____ mps
 Q50= _____ mps
 Q100= _____ mps
 LONG TERM STREAM BED CHANGES: N/A
 IS THE ROADWAY OVERTOPPED BELOW THE Q100? N/A FREQUENCY: N/A
 RELIEF ELEVATION: N/A DISCHARGE OVER ROAD @ Q100: 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:

1. DESIGN LIVE LOAD AASHTO MS-22.5
2. DESIGN SPAN 3 METERS
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 290 kPa ON LEDGE N/A
4. ALLOWABLE LOAD FOR PILING N/A TYPE N/A ESTIMATED LENGTH N/A
5. STRUCTURAL STEEL AASHTO GRADE N/A
6. REINFORCING STEEL GRADE 420
7. CONCRETE, HIGH PERFORMANCE CLASS A $f'_c = 30$ MPA
CONCRETE, HIGH PERFORMANCE CLASS B $f'_c = 25$ MPA

TRAFFIC MAINTENANCE:

1. IS TRAFFIC TO BE MAINTAINED? NO IF YES, ON EXISTING STRUCTURE N/A OR ON TEMPORARY BRIDGE N/A
2. 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

LOAD RATING (TONS)

LOADING LEVELS (LOAD FACTOR)	TRUCK				
	H	HS	3S2	6 AXLE	3A, STR. 4A, STR. 5A, SEMI
INVENTORY A = 2.17					
POSTED A = 1.55					
OPERATING A = 1.30					

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 F019-115**
 DH CAD Drawing Name: ... \PlotFiles\BM\BM-Planm.def: 11/12/2004
 Bridge Sheet No. BR300 Shee 22 of 112