

**HYDROLOGIC DATA**

DRAINAGE AREA= 72.5 SQUARE KILOMETERS  
CHARACTER OF TERRAIN: URBAN  
CHARACTER & TYPE OF STREAM: STEEP GRADIENT, CHANNEL DEFINED BY RETAINING WALLS  
NATURE OF STREAMBED: VARIABLE SLOPE

Q2.33=	050=	96
Q10=	0100=	224
Q25=	0500=	348

DATE OF FLOOD OF RECORD: JULY 1, 1973  
WATER SURFACE ELEV.: UNKNOWN ESTIMATED DISCHARGE: UNKNOWN  
NATURAL STREAM VELOCITY @ 0.25 =  
ICE CONDITIONS: MODERATE DEBRIS: LIGHT  
DOES THE STREAM REACH MAXIMUM HIGHWATER ELEVATION RAPIDLY? YES  
IS ORDINARY RISE RAPID? YES  
IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? YES  
IF YES, DESCRIBE. STAGE AFFECTED BY FALLS APPROXIMATELY 200 METERS DOWNSTREAM

WATERSHED STORAGE HEADWATERS: UNIFORM THROUGHOUT WATERSHED IMMEDIATELY ABOVE SITE

**PROPOSED STRUCTURE**

STRUCTURE TYPE: NEW SUPERSTRUCTURE TO BE PLACED BEHIND EXISTING RETAINING WALLS  
CLEAR SPAN (NORMAL TO STREAM): 18.887 m  
VERTICAL CLEARANCE ABOVE STREAMBED:  
WATERWAY OF FULL OPENING:

WATER SURFACE ELEV. @ Q2.33=	VELOCITY=
Q10=	76 m
Q25=	m
Q50=	77 m
Q100=	77 m

IS THE ROADWAY OVERTOPPED BELOW THE Q100? NO FREQUENCY: N/A  
RELIEF ELEVATION: DISCHARGE OVER ROAD @ Q100:  
AVERAGE LOW ELEVATION OF SUPERSTRUCTURE:  
VERTICAL CLEARANCE @ Q25:  
SCOUR:  
REQUIRED CHANNEL PROTECTION:

**ADDITIONAL COMMENTS**

HYDROLOGIC AND HYDRAULIC DATA WAS OBTAINED FROM THE FLOOD INSURANCE STUDY, TOWN OF BRATTLEBORO, VERMONT, WINDHAM COUNTY, DECEMBER 4, 1985 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (COMMUNITY NUMBER - 500126).

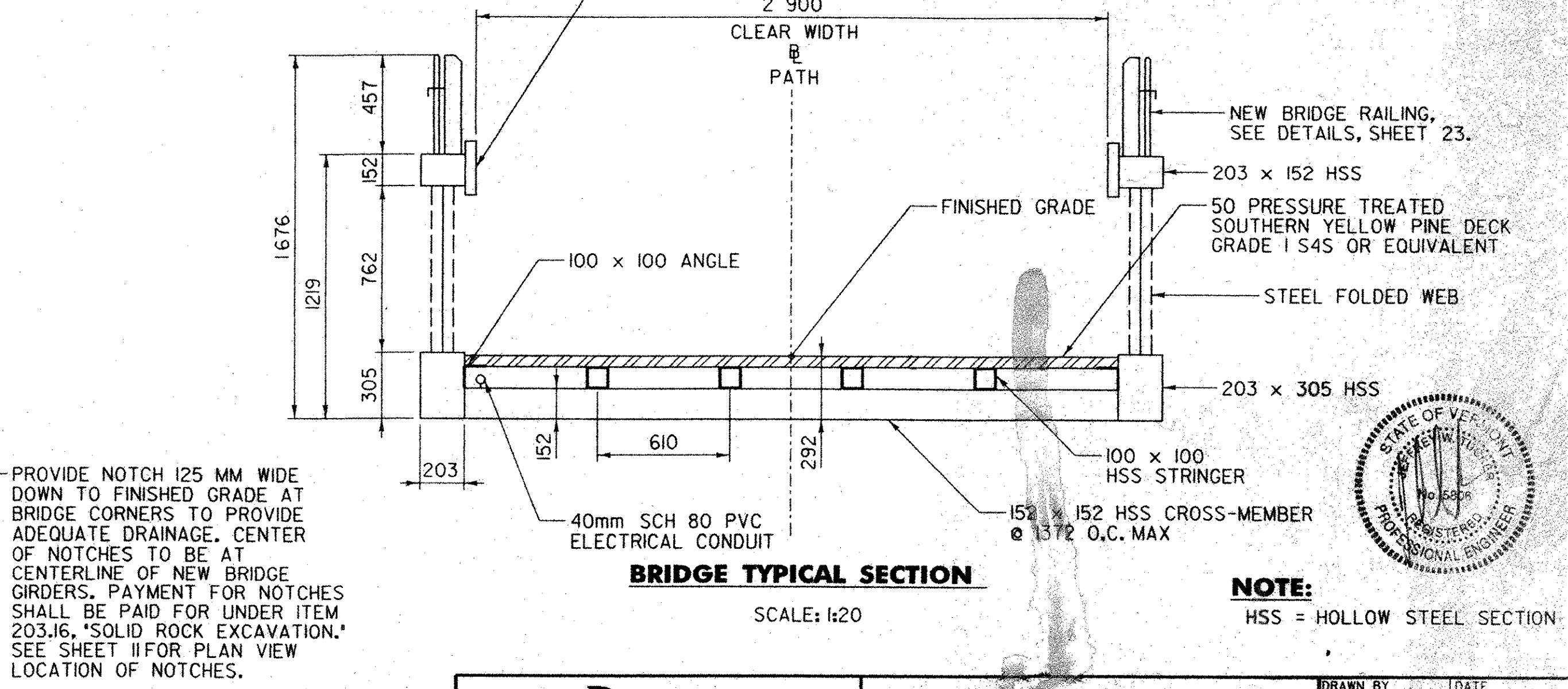
**PERMIT INFORMATION**

AVERAGE DAILY FLOW: DEPTH:  
ORDINARY LOW WATER: DEPTH:  
ORDINARY HIGH WATER: DEPTH:

- DESIGN CRITERIA:**
- DESIGN LIVE LOAD AASHTO 4 KPa, M9 VEHICLE (85 PEDESTRIAN LIVE LOAD, H10 20,000 lbs VEHICLE LIVE LOAD)
  - DESIGN SPAN 27.242 METERS - CENTERLINE OF BEARING
  - ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 190 KPa ON LEDGE N/A
  - ALLOWABLE LOAD FOR PILING N/A TYPE ESTIMATED LENGTH
  - STRUCTURAL STEEL AASHTO M 270/M 270 GRADE 345
  - REINFORCING STEEL GRADE 420
  - CONCRETE, HIGH PERFORMANCE CLASS B (MOD. - FLY ASH)  $f_c$  25 MPa
- TRAFFIC MAINTENANCE:**
1. IS TRAFFIC TO BE MAINTAINED? YES IF YES, ON EXISTING STRUCTURE NO OR ON TEMPORARY BRIDGE NO  
WITHIN EXISTING PARKING LOTS
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 OF FULL OPENING: N/A  
ARE SIDEWALKS REQUIRED? N/A IF SO, ON WHAT SIDE? N/A  
STRUCTURE TYPE: N/A

**MATERIALS TOLERANCE TABLE**

MATERIAL ITEM	TOLERANCE
BITUMINOUS CONCRETE SIDEWALK (MOD. - TEXTURED)**	+ 3mm
BITUMINOUS CONCRETE PAVEMENT	+ 5mm
SUBBASE OF CRUSHED GRAVEL (FINE GRADED)	+ 30mm



**NOTE:**  
ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN MILLIMETERS.

**DuBois & King inc.**  
engineering planning management development

TOWN OF BRATTLEBORO  
BRATTLEBORO, VERMONT  
WHEISTONE BROOK PATHWAY PROJECT  
STP BINE (27) S  
PRELIMINARY INFORMATION SHEET

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