

**HYDRAULIC DATA**

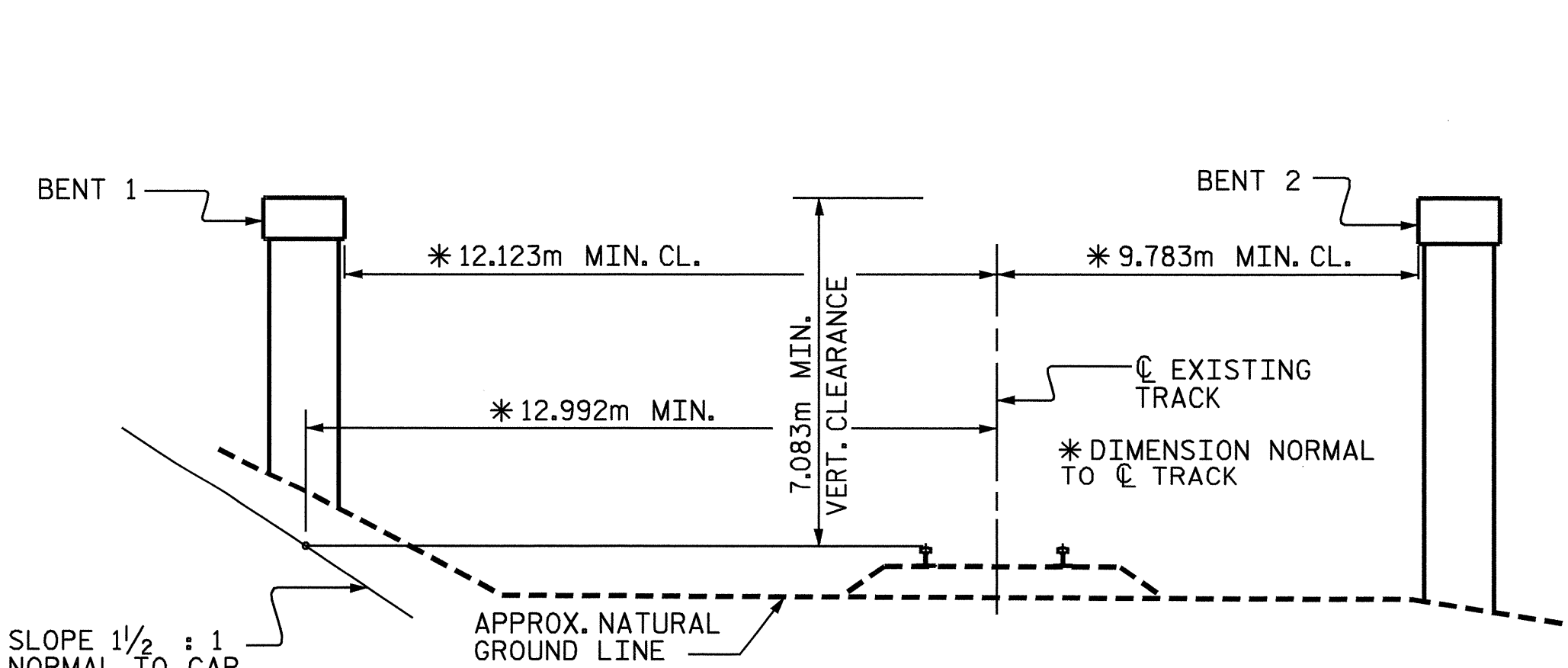
DESIGN DISCHARGE = 65.3 m<sup>3</sup>/S  
 FREQUENCY OF DESIGN FLOOD = 50 YR.  
 DESIGN HIGH WATER ELEVATION = 218.520  
 DRAINAGE AREA = 11.68 KM<sup>2</sup>  
 BASIC DISCHARGE (Q100) = 79.4 m<sup>3</sup>/S  
 BASIC HIGH WATER ELEVATION = 218.780

**OVERTOPPING FLOOD DATA**

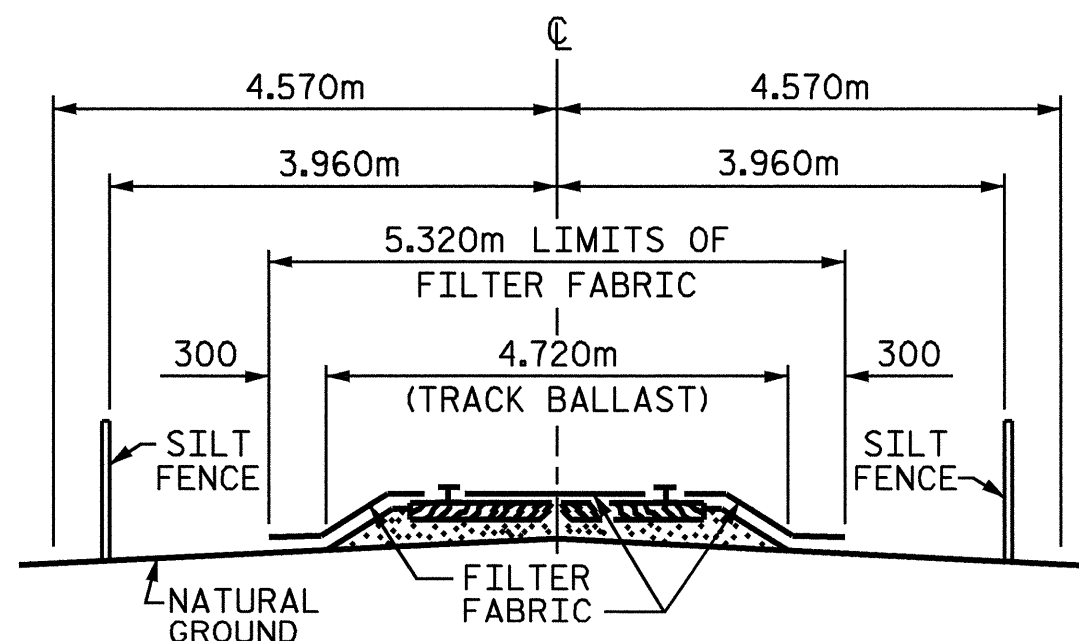
OVERTOPPING DISCHARGE = 500 YR.+  
 FREQUENCY OF OVERTOPPING FLOOD = 500 YR.+  
 OVERTOPPING FLOOD ELEVATION = 225.670

**TOTAL BILL OF MATERIAL**

	PILE EXCAVATION IN SOIL	PILE EXCAVATION NOT IN SOIL	1524mmØ DRILLED PIERS IN SOIL	1524mmØ DRILLED PIERS NOT IN SOIL	PERMANENT STEEL CASING FOR 1524mmØ DRILLED PIER	SID INSPECTION	SPT TESTING	CROSSHOLE SONIC LOGGING	CSL TUBES	UNCLASSIFIED STRUCTURE EXCAVATION	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	STRUCTURAL STEEL (APPROX.)	HP 310 x 79 STEEL PILES	STEEL PILE POINTS	CONCRETE BARRIER RAIL	100mm SLOPE PROTECTION	PLAIN RIP RAP CLASS II (600mm THICK)	FILTER FABRIC FOR DRAINAGE	POT BEARINGS	ELASTOMERIC BEARINGS	EVAZOTE JOINT SEAL	
	METERS	METERS	METERS	METERS	METERS	EACH	EACH	EACH	METERS	LUMP SUM	SQ. M.	SQ. M.	CU. M.	LUMP SUM	kg.	kg.	kg.	NO.	METERS	EACH	METERS	SQ. M.	MET. TONS	SQ. M.	LUMP SUM	LUMP SUM	LUMP SUM
SUPERSTRUCTURE											1943.5	1914.3		LUMP SUM			379600				313.724				LUMP SUM	LUMP SUM	LUMP SUM
END BENT NO.1	22.1	11.0											63.9		5474			11	39.0	11		297					
BENT NO.1			20.4	14.4				1	152.64				91.8		19290	3254											
BENT NO.2			20.4	14.0				1	151.20				117.4		22261	4010											
BENT NO.3			16.6	16.0	20.9	4	4	1	144.16				112.6		21193	3748											
END BENT NO.2													64.1		5914			13	176.0	13		914	933				
TOTAL	22.1	11.0	57.4	44.4	20.9	4	4	3	448.00	LUMP SUM	1943.5	1914.3	449.8	LUMP SUM	74132	11012	379600	24	215.0	24	313.724	297	914	933	LUMP SUM	LUMP SUM	LUMP SUM



**MINIMUM CLEARANCE - RAILROAD**  
 (LOOKING BACK STATION ALONG RAILROAD)  
 SPAN LENGTHS BASED ON THIS SECTION



**RAILROAD EROSION CONTROL PLAN**

NOTES: RAILROAD EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO PERFORMING ANY WORK IN THE RAILROAD RIGHT-OF-WAY.

ADDITIONAL EROSION CONTROL MEASURES FOR PROTECTION OF RAILROAD DITCHES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.

NO SEPARATE PAYMENT WILL BE MADE FOR RAILROAD EROSION CONTROL MEASURES.

LIMITS OF SILT FENCE AND FILTER FABRIC PARALLEL TO RAILROAD SHALL EXTEND A MINIMUM OF 3.000m OUTSIDE EDGE OF SUPERSTRUCTURE OR TOE OF SLOPE ON CONSTRUCTION. A GREATER LENGTH OF SILT FENCE OR FILTER FABRIC MAY BE REQUIRED IF SO DIRECTED BY THE ENGINEER.

FILTER FABRIC TO BE NAILED TO TIMBER RAIL TIES WITH PRIME SOURCE "GRIP CAP" OR EQUIVALENT. FILTER FABRIC ON SHOULDER TO BE SECURED AS DIRECTED BY THE ENGINEER AND RAILROAD.

PROJECT NO. R-2206B  
LINCOLN COUNTY  
 STATION: 123+38.105-L-  
14+35.584-Y8-  
 SHEET 5 OF 5

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**GENERAL DRAWING**  
 FOR BRIDGE ON  
 NC 16 BYPASS NORTHBOUND  
 OVER CSX RAILROAD  
 & FORNEY CREEK  
 BETWEEN NC 73 & SR 1380  
 ( RIGHT LANE )

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. **S-48**  
 TOTAL SHEETS **86**



DRAWN BY: W.R. BRILEY DATE: 4-17-01  
 CHECKED BY: E.G. ALLEN DATE: 6-8-01