

HYDRAULIC DATA

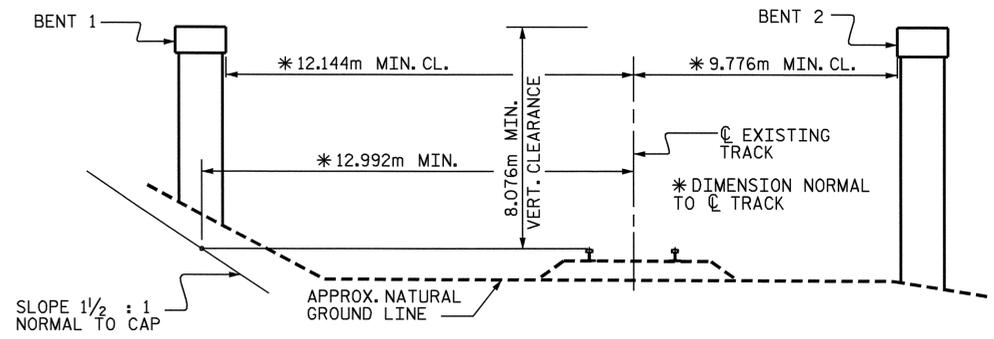
DESIGN DISCHARGE	=	65.3 m <sup>3</sup> /S
FREQUENCY OF DESIGN FLOOD	=	50 YR.
DESIGN HIGH WATER ELEVATION	=	218.520
DRAINAGE AREA	=	11.68 KM <sup>2</sup>
BASIC DISCHARGE (Q100)	=	79.4 m <sup>3</sup> /S
BASIC HIGH WATER ELEVATION	=	218.780

OVERTOPPING FLOOD DATA

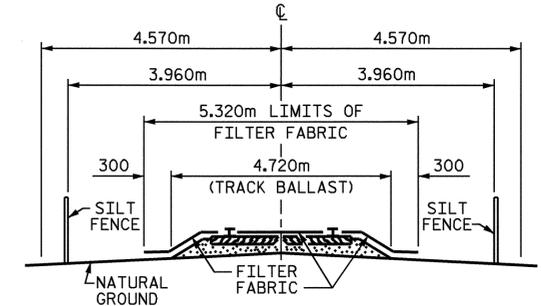
OVERTOPPING DISCHARGE	=	GREATER THAN 500 YR.
FREQUENCY OF OVERTOPPING FLOOD	=	GREATER THAN 500 YR.
OVERTOPPING FLOOD ELEVATION	=	225.670

LOCATION SKETCH

NO KNOWN UTILITY CONFLICTS.



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.

TOTAL BILL OF MATERIAL

	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	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL
	METERS	METERS	METERS	EACH	EACH	EACH	METERS	SQ. M	SQ. M	CU. M	LUMP SUM	kg.	kg.
SUPERSTRUCTURE								1943.5	1914.3		LUMP SUM		
END BENT NO.1										55.1		4835	
BENT NO.1	6.4	16.4				1	104.8			92.8		17062	2757
BENT NO.2	17.7	19.6				1	162.72			95.2		20320	3542
BENT NO.3	28.1	20.0	29.2	4	4	1	205.92			122.7		25927	5032
END BENT NO.2										56.8		5300	
TOTAL	52.2	56.0	29.2	4	4	3	473.44	1943.5	1914.3	422.6	LUMP SUM	73444	11331

TOTAL BILL OF MATERIAL CONTINUED

	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	
	kg.	NO.	METERS	EACH	METERS	SQ. M	METRIC TONS	SQ. M	LUMP SUM	LUMP SUM	LUMP SUM
SUPERSTRUCTURE	379600			313.724					LUMP SUM	LUMP SUM	LUMP SUM
END BENT NO.1		11	80.0	11		325					
BENT NO.1											
BENT NO.2											
BENT NO.3											
END BENT NO.2		13	140.0	13		867	885				
TOTAL	379600	24	220.0	24	313.724	325	867	885	LUMP SUM	LUMP SUM	LUMP SUM

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



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 SOUTHBOUND  
OVER CSX RAILROAD  
& FORNEY CREEK  
BETWEEN NC 73 & SR 1380  
(LEFT LANE)

REVISIONS						TOTAL SHEETS
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			86
2			4			