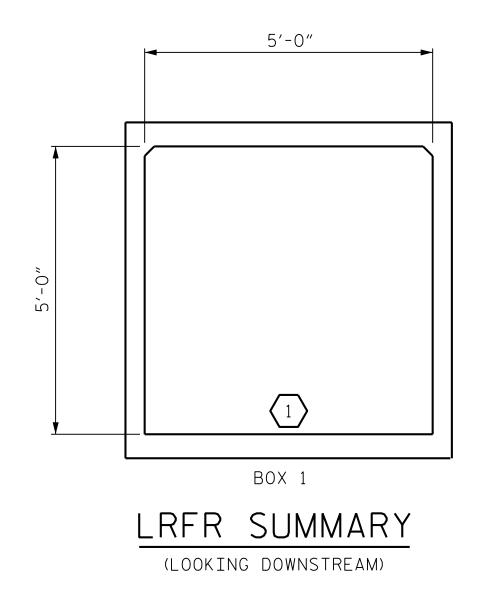
LOAD AND RESISTANCE FACTOR RATING (LRFR) SUMMARY FOR REINFORCED CONCRETE BOX CULVERTS										
			STRENGTH I LIMIT STATE							
			MOMENT				SHEAR			
	CONTROLLING LOAD RATING	MINIMUM RATING FACTOR (RF)	RATING FACTOR	BOX NO.	ELEMENT TYPE	DISTANCE FROM LEFT END OF ELEMENT (ft)	RATING FACTOR	BOX NO.	ELEMENT TYPE	DISTANCE FROM LEFT END OF ELEMENT (ft)
PERMANENT LOAD RATING	1	2.08	2.08	1	BOTTOM SLAB	2.5	3.11	1	BOTTOM SLAB	0.1



DRAWN BY: __T.K.BOYD CHECKED BY: B.D.KLAPPENBACH DESIGN ENGINEER OF RECORD: O.J.PAITEL DATE: NOV 2023
DATE: NOV 2023
DATE: NOV 2023

PERMANENT LOAD FACTORS:

LOAD TYPE	MAX FACTOR	MIN FACTOR		
DC	1.25	0.90		
DW	1.50	0.65		
EV	1.30	0.90		
EH	1.35	0.90		
ES	1.35	0.90		
WA	1.00			

NOTES:

RATING FACTORS ARE BASED ON THE STRENGTH I LIMIT STATE.

THE EFFECTS OF LIVE LOAD ON DESIGN AND LOAD RATING MAY BE NEGLECTED FOR CULVERTS WITH CERTAIN FILL DEPTHS DESCRIBED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

CULVERTS WITH NEGLIGIBLE LIVE LOAD SHOULD BE LOAD RATED FOR PERMANENT LOADS ONLY IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION.

PROJECT NO. R-2577A

FORSYTH

COUNTY

STATION: 229+09.00 -L2-

SHEET 2 OF 14

CULVERT NO.2 SEAL

Docusignates 50

Chaire Paitel

Chaire Paitel P: (919) 878-9560 8601 Six Forks Road, Forum 1 Suite 700 Raleigh, North Carolina 27615 | NC License No. F-0112 Engineers | Construction Managers | Planners | Scientists

RKX

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

STANDARD

LRFR SUMMARY FOR REINFORCED CONCRETE BOX CULVERT (DEEP FILLS)

s Construction Managers Planners Scientists	11/10/2023		REVISIONS						SHEET NO.	
e People Creative Solutions		NO.	BY:	DATE:	NO.	BY:	DATE:	CU_2-2		
DOCUMENT NOT CONSIDERED FINAL				3			TOTAL SHEETS			
UNLESS ALL SIGNATURES COMPLETED					4			14		