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ELEVATION AT EXPANSION JOINTS

FIXED END

(TYPE II - 26 REQ'D)

ELASTOMERIC BEARING DETAIL

ELASTOMER IN ALL BEARINGS SHALL BE 60 DUROMETER HARDNESS.

BOX BEAM UNITS REQUIRED

	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR B.B.	2	85'-0"	170'-0"
INTERIOR B.B.	11	85'-0"	935'-0"
TOTAL	13	———	1105'-0"

BILL OF MATERIAL FOR CONCRETE WEARING SURFACE

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✳R1	340	#3	STR	18'-9"	2397
✳R2	219	#3	STR	29'-2"	2402
✳EPOXY COATED REINFORCING STEEL				LBS.	4799
CONCRETE WEARING SURFACE				SQ.FT.	3103.0

GROOVING BRIDGE FLOORS

APPROACH SLABS	748	SQ.FT.
BRIDGE DECK	2836	SQ.FT.
TOTAL	3584	SQ.FT.

SPLICE LENGTH CHART

BAR SIZE	EPOXY COATED
#3	1'-3"

REINFORCING FOR CONCRETE WEARING SURFACE

✳✳ BASED ON PREDICTED FINAL CAMBER AND THEORETICAL GRADE LINE ELEVATIONS

PLAN SHOWING CONCRETE WEARING SURFACE REINFORCING STEEL

V&M
Vaughn & Melton
Consulting Engineers
Raleigh, North Carolina
919-977-9455
Asheville, NC 828-253-2796
Charlotte, NC 704-357-0488
Boone, NC 828-355-9933
Tri-Cities, TN 423-467-8401
Knoxville, TN 865-546-5800
Spartanburg, SC 864-574-4775
Charleston, SC 843-974-5650
Middlesboro, KY 606-248-6600
Atlanta, GA 770-627-3509
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PROJECT NO. 17BP.1.R.78

GATES COUNTY

STATION: 18+41.00 -L-

SHEET 5 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD
3'-0" X 2'-9"
PRESTRESSED CONCRETE
BOX BEAM UNIT DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 18090 ENGINEER THOMAS PAUL CARRETTE
DocuSigned by: Thomas P. Carrette
5/23/2018 8:00:55 AM PDT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ASSEMBLED BY : FRJ		DATE : 1/18	
CHECKED BY : RTS		DATE : 1/18	
DRAWN BY : TLA 5/05	REV. 10/12	MAA/GM	
CHECKED BY : GM 6/05	REV. 6/13	MAA/GM	
	REV. 1/15	RWW/TMG	

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-8
1			3			TOTAL SHEETS
2			4			19

5/3/2018
$$$$$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$$
User:wdcrutcher

(SHT 3A) STD. NO. PCBB8