

GRADE 270 STRA	ANDS
	1/₂″Ø L.R.
AREA (SQUARE INCHES)	0.153
ULTIMATE STRENGTH (LBS.PER STRAND)	41,300
APPLIED PRESTRESS (LBS.PER STRAND)	30,980

	BILL		MATE SLAB	RIAL IN	FOR SPAN	ONE A	CORED	
		·	I	NTERIOR			EXTERIO	R
BAR	SIZE	TYPE	NO	LENGTH	WEIGHT	NO	LENGTH	WEIGHT
B1	4	STR	4	22'-8"	61	4	22'-8"	61
S1	4	3	8	4'-3"	23	8	4'-3"	23
S2	4	3	86	5'-4"	306	86	5′-4″	306
* S3	5	1				45	5′-5″	254
REINFO	RCING S	STEEL	LB.		390			390
* EPOXY COATED REINF. STEEL LB.								254
5000 PSI CONCRETE CU. YDS. 6.0						6.0		
1/2″Ø	L.R. ST	RANDS	NO.		18			18

E	BILL	OF MA	ATERI 3 IN	IAL F SPA	OR 01 N B 8	NE CC	RED	
			II	NTERIOR			EXTERIO	₹
BAR	SIZE	TYPE	NO	LENGTH	WEIGHT	NO	LENGTH	WEIGHT
B2	4	STR	4	25′-8″	69	4	25′-8″	69
S1	. 4	3	8	4'-3"	23	8	4'-3"	23
S2	4	3	98	5′-4″	349	98	5′-4″	349
* S3	5	1				51	5′-5″	288
REINFO	RCING :	STEEL I	_B .		441			441
* EPOXY COATED REINF. STEEL LB. 288								288
5000 PSI CONCRETE CU. YDS. 6.8 6.8								
1/2″Ø	L.R. ST	RANDS	NO.		23			23

	BILL OF MATERIAL FOR ONE CORED SLAB IN SPAN D								
			II	NTERIOR			EXTERIO	R	
BAR	SIZE	TYPE	NO	LENGTH	WEIGHT	NO	LENGTH	WEIGHT	
В3	4	STR	4	17′-8″	47	4	17′-8″	47	
S1	4	3	8	4′-3″	23	8	4'-3"	23	
S2	4	3	66	5′-4″	235	66	5'-4"	235	
* S3	5	1				35	5′-5″	198	
REINFO	RCING S	STEEL I	_B .		305			305	
* EPOX	Y COATE	D REIN			198				
5000 P	5000 PSI CONCRETE CU. YDS. 4.6 4.6							4.6	
1/2″Ø	L.R. ST	RANDS	NO.		12			12	

DEAD LOAD DEFLECTION A	AND	CAMBER (SPAN	A)
CAMBER (SLAB ALONE IN PLACE)	A	1.370	
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	0.202		
FINAL CAMBER	A	11/8"	

			نت ندر صحصوص	
**	INCLUDES	FUTURE	WEARING	SURFACE

DEAD LOAD DEFLECTION AND	CAN	MBER	(SPANS	В	&	C)
CAMBER (SLAB ALONE IN PLACE)	A		2.090			
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	\		0.344			
FINAL CAMBER	À		13/4"			

**	TNCI	UDES	FIITI	IRF	WEARING	SURFACE

DEAD LOAD DEFLECTION AND	CAMBER (SPAN D)		
CAMBER (SLAB ALONE IN PLACE)	0.543		
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	0.070		
FINAL CAMBER	/2"		
* TNCLLIDES FUTURE WEARTNE SURFACE			

**	INCLUDES	FUTURE	WEARING	SURFACE

CORED :	SLABS RE	QUIRED	(SPAN A)
UNIT TYPE	NUMBER	LENGTH	TOTAL LENGTH
INTERIOR	10	43′-9¾″	438'-11/2"
EXTERIOR	2	43'-93/4"	87'-71/2"
TOTAL	12	43'-93/4"	525′-9″

CORED SLA	BS REQU	IRED (SPA	NS B & C)
UNIT TYPE	NUMBER	LENGTH	TOTAL LENGTH
INTERIOR	20	49'-101/2"	997′-6″
EXTERIOR	4	49'-101/2"	199′-6″
TOTAL NUMBER	24	49'-10 /2"	1197′-0″

CORED SLABS REQUIRED (SPAN D)								
UNIT TYPE	NUMBER	LENGTH	TOTAL LENGTH					
INTERIOR	10	33′-9¾ ″	338′-11/2″					
EXTERIOR	2	33′-9¾″	67'-71/2"					
TOTAL NUMBER	12	33′-9¾″	405′-9″					

						ВА	RRIE	R RAI	L BILL	OF MA	TERIAL						
SPAN A				SPANS B & C					SPAN D								
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
₩ B4	28	5	STR	21′-7″	630	★ B5	56	5	STR	24'-7"	1436	 ₩B6	28	5	STR	16′-7″	484
* \$4	90	5	2	5′-8″	532	 ★ S4	102	5	2	5′-8″	602	* S4	70	5	2	5′-8″	414
*EPOXY	*EPOXY COATED REINF. STEEL LB. = 1162 **EPOXY COATED REINF. STEEL LB. = 2038								*EPOXY COATED REINF. STEEL LB. = 898								
CLASS AA CONCRETE CU.YDS. = 10.0 CLASS AA CONCRETE CU.YDS. = 22.8						CLASS AA CONCRETE CU. YDS. = 7.7											
*TOTAL EPOXY COATED REINF. STEEL LB =4098																	
TOTAL CLASS AA CONCRETE CU. YDS. =40.5																	
TOTAL CONCRETE BARRIER RAIL (FT) =355.8																	

PROJECT N	NOB-4139
H	ARNETT COUNTY
	17+68.00 -L-

SHEET 7 OF 7

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION
RALEIGH 3'-0" X 1'- 9"
PRESTRESSED
CONCRETE CORED
SLAB UNIT

	REVI	SHEET NO.			
':	DATE:	NO.	BY:	DATE:	S-10
	,	3			TOTAL SHEETS
		4			1 22

ASSEMBLED BY: S.M. RASHIDI DATE: 4/14/03 CHECKED BY: N. TRAN DATE: 10/31/03 DRAWN BY: WJH 4/89 REV.8/16/99 RWW/LES REV.10/17/00 RWW/LES REV.7/10/01R RWW/LES