COMPUTED BY: PPS DATE: 9-19-17
CHECKED BY: AMH DATE: 9-19-17

PROJECT REFERENCE NO.	SHEET NO.
W-5704A&B	3D-1

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUB-REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE 12"	15"	18"	24"	36"	42"	48"	R.C. PIPE (CLASS IV) (FT.) 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS V) (FT.) 12"	15"	18"	24"	30"	36"	42"	48"
W-5704B																				.064	.064	.064	.064	.079	.109	.109															
16+90 -L-	LT	0402			282.1																																				
		0402	0403		282.1	281.7																													28						
17+15 -L-	LT	0403		285.4	281.3																																				
		0403	0405		281.3	280.9																													12						
17+15 -L-	RT	0405		286.1	280.9																																				
19+25 -L-	CL	0409		282.9	279.4																																				
		0409	0406		279.4	279.0																													24						
19+47 -L-	CL	0406		282.5	279.0																																				
		0406	0407		279.0	274.5																													208						
21+53 -L-	CL	0407		277.3	274.5																																				
27+45 -L-	LT	0509		270.9	266.4																																				
		0509	0501		266.4	266.0																				24															
27+67 -L-	LT	0501		270.5	266.0																																				
		0501	0502		266.0	265.0																				40															
28+00 -L-	RT	0502		269.5	265.0																																				
		0502	0505		265.0	263.5																				80															
29+62 -L-	LT	0503		267.7	263.2																																				
		0503	0504		263.2	261.1																				136															
30+97 -L-	CL	0504		265.6	261.1																																				
		0504	0506		261.1	259.7																													116						
32+12 -L-	CL	0506		262.6	259.7																																				
60+00 -L-	CL	0601		261.6	256.8																																				
		0601	0610		256.8	256.0																					148														
58+55 -L-	CL	0610		260.5	256.0																																				
62+00 -L-	LT	0613		263.2	259.7																																				
		0613	0608		259.7	259.5	X																												36						
61+64 -L-	LT	0608		263.1	259.5																																				
		0608	0609		259.5	259.5	X																												8						
61+64 -L-	CL	0609		264.3	259.5																																				
		0609	0606		259.5	258.9	X																												116						
66+00 -L-	CL	0602		265.4	260.9																																				
		0602	0604		260.9	260.4	X																			100															
65+00 -L-	RT	0604		264.9	260.4																																				
		0604	0603		260.4	260.0	X																			76															
64+24 -L-	RT	0603		265.4	260.0																																				
		0603	0605		260.0	259.7																				32															
64+00 -L-	LT	0605		264.2	259.7																																				
		0605	0607		259.7	259.2																				100															
63+00 -L-	LT	0607		263.7	258.9																																				
		0607	0606		258.9	258.7																					32														
62+76 -L-	RT	0606		264.7	255.8																																				
W-5704B PROJ. TOTALS																										588	180								548						

STATION	STRUCTURE NO. FROM	STRUCTURE NO. TO	**" R. C. PIPE (CLASS V)	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	**" R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. *FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G		CONCRETE TRANSITIONAL SECTION CATCH BASIN	DROP INLET		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME WITH TWO GRATES STD. 840.16	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. FRAME WITH TWO GRATES STD. 840.22		T.B.J.B. STD. 840.34	M.H. FRAME & COVER STD. 840.54	CONC. COLLARS CL. "B" C.Y. STD 840.72		PIPE REMOVAL LIN.FT.	REMARKS
16+90 -L-	0402																										0.399			COLLAR AND EXTEND EXISTING 15" RCP
	0402	0403																												REMOVE EXISTING 15" RCP
17+15 -L-	0403									1									1		1	1									REMOVE AND REPLACE EXISTING DI
	0403	0405																												REMOVE EXISTING 15" RCP
17+15 -L-	0405									1									1		1	1									
19+25 -L-	0409									1									1		1	1									
	0409	0406																												
19+47 -L-	0406									1									1		1	1									
	0406	0407																												
21+53 -L-	0407									1													1	1							REMOVE AND REPLACE EXISTING DI
27+45 -L-	0509									1									1		1	1									
	0509	0501																												
27+67 -L-	0501									1									1		1	1									
	0501	0502																												
28+00 -L-	0502									1											1	1									MONOLITHIC ISLAND SHOULD ACCEPT DRAINAGE FROM BOTH SIDES OF PROPOSED DROP INLET
	0502	0505																											68	REMOVE EXISTING 18" RCP
29+62 -L-	0503									1											1	1									MONOLITHIC ISLAND SHOULD ACCEPT DRAINAGE FROM BOTH SIDES OF PROPOSED DROP INLET
	0503	0504																												
30+97 -L-	0504									1									1		1	1									
	0504	0506																												
32+12 -L-	0506									1													1	1							REMOVE AND REPLACE EXISTING DI
60+00 -L-	0601									1													1	1							
	0601	0610																												
58+55 -L-	0610									1													1	1							REMOVE AND REPLACE EXISTING DI
62+00 -L-	0613									1											1	1									MONOLITHIC ISLAND SHOULD ACCEPT DRAINAGE FROM BOTH SIDES OF PROPOSED DROP INLET
	0613	0608																												MINIMUM PIPE GRADE=0.50%
61+64 -L-	0608									1									1		1	1									
	0608	0609																												MINIMUM PIPE GRADE=0.30%
61+64 -L-	0609									1									1		1	1									
	0609	0606																											40	REMOVED EXISTING 15" RCP MINIMUM PIPE GRADE=0.50%
66+00 -L-	0602									1													1	1							
	0602	0604																												MINIMUM PIPE GRADE=0.50%
65+00 -L-	0604									1											1	1									MONOLITHIC ISLAND SHOULD ACCEPT DRAINAGE FROM BOTH SIDES OF PROPOSED DROP INLET
	0604	0603																												MINIMUM PIPE GRADE=0.50%
64+24 -L-	0603									1	0.4								1		1	1									
	0603	0605																												
64+00 -L-	0605									1									1		1	1									
	0605	0607																											155	REMOVE EXISTING 15" RCP
63+00 -L-	0607									1									1		1	1									
	0607	0606																												
62+76 -L-	0606									1	3.9								1		1	1									
																														TIE TO EXISTING 18" RCP
W-5704B PROJ. TOTALS										22	4.3								13		17	17	5	5				0.399		263	W-5704B PROJ. TOTALS

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

4/04/06
10/3/2017 ...\Final\W-5704_HYD_DSS.dgn USER:...