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DRAINAGE SUMMARY SHEET

HNTB
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

DATE: JANUARY 19, 2015

PROJECT REFERENCE NO.	SHEET NO.
P-4900A	3A
R/W SHEET NO.	

RALD046

COMPUTED BY: JFW DATE: 9/23/14

CHECKED BY: BRC DATE: 9/26/14

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

LINE & STATION / SIZE / THICKNESS OR GAUGE	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
L 62+68.2	CL	R0801	OUT		156.27	155.26	
L 74+37.9	CL	R0901	OUT		158.07	157.71	0.5
L 81+02.2	CL	R0902	OUT		153.99	152.48	
L 102+72.4	CL	R1101	OUT		153.07	152.71	0.5
L 116+29.1	CL	R1201	OUT		152.81	149.65	
L 122+07.1	CL	R1202	OUT		156.42	156.10	0.5
L 125+04.6	51 RT	R1203	OUT		158.54	158.26	
L 22+45.0	102 RT	R0501	OUT		159.0	159.0	

R. C. PIPE CLASS III

LINE & STATION	12	15	18	24	30	36	42	48	54	60	66	72	78	84
L 62+68.2														
L 74+37.9														
L 81+02.2														
L 102+72.4														
L 116+29.1														
L 122+07.1														
L 125+04.6				32										
L 22+45.0														
SHEET TOTALS				32										
PROJECT TOTALS				32										

R. C. PIPE CLASS IV

LINE & STATION	12	15	18	24	30	36	42	48	54	60	66	72	78	84
L 62+68.2														
L 74+37.9														
L 81+02.2														
L 102+72.4														
L 116+29.1														
L 122+07.1														
L 125+04.6														
L 22+45.0														
SHEET TOTALS														
PROJECT TOTALS														

R. C. PIPE CLASS V (Under RR)

LINE & STATION	12	15	18	24	30	36	42	48	54	60	66	72	78	84
L 62+68.2							92							
L 74+37.9						72								
L 81+02.2						98								
L 102+72.4								68						
L 116+29.1						92								
L 122+07.1						64								
L 125+04.6														
L 22+45.0														
SHEET TOTALS						326	92	68						
PROJECT TOTALS						326	92	68						

LINE & STATION	36" WELDED STEEL PIPE 0.532" THICK, GRADE B (UNDER RR) (in soil)	36" WELDED STEEL PIPE 0.532" THICK, GRADE B (UNDER RR) (not in soil)	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 (UNLESS NOTED OTHERWISE) CY
L 62+68.2						9.000
L 74+37.9						6.800
L 81+02.2						6.800
L 102+72.4						12.000
L 116+29.1						6.800
L 122+07.1						6.800
L 125+04.6						
L 22+45.0	39	39				
SHEET TOTALS	39	39				48.200
PROJECT TOTALS	39	39				48.200

LINE & STATION	CONCRETE TRANSITIONAL SECTION: D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION: C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.2	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.2	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.2	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.2	PIPE REMOVAL LIN. FT.	REMARKS
L 62+68.2																			
L 74+37.9																			
L 81+02.2																			
L 102+72.4																			
L 116+29.1																			
L 122+07.1																			
L 125+04.6																			
L 22+45.0																			
SHEET TOTALS																			
PROJECT TOTALS																			

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.D.P.E.	HIGH DENSITY POLYETHYLENE
J.B.	JUNCTION BOX
M.H.	MANHOLE
N.S.	NARROW SLOT
P.V.C.	POLYVINYL CHLORIDE
R.C.	REINFORCED CONCRETE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX
W.S.	WIDE SLOT

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