PROJECT REFERENCE NO.	SHEET NO.
HL-0025	3D-2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

DRAINAGE SUMMARY

Structure and elevation columns

STATION	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL
PLAN SHEET 5 (CONT.)							
-Y2- 13+53	RT	511		722.4			
-Y2- 13+53	LT/RT	511	510		719.4	719.0	
-Y2- 13+53	LT	510		722.3			
-Y2- 13+53	LT	510	509		719.0	718.7	
-Y2- 13+27	LT	509		721.7			
-Y2- 13+27	LT	509	508		718.5	718.4	
-Y2- 13+03	LT	508		721.1			
-Y2- 13+03	LT	508	507		718.3	713.1	
-Y2- 12+19	LT	507		716.7			
-Y2- 12+19	LT	507	506		713.5	713.1	
-Y2- 11+64	RT	505		715.8			
-Y2- 11+64	LT/RT	505	506		712.8	712.6	
-Y2- 11+65	LT	506		716.1			
-Y2- 11+65	LT	506	504		712.4	712.0	
-L- 21+48	LT	504		717.5			
-L- 21+48	LT/RT	504	503		711.8	711.7	
-L- 21+48	RT	503		717.5			
-L- 21+48	RT	503	502		711.5	711.1	
-L- 22+13	RT	502		714.9			
-L- 22+13	RT	502	501		709.0	708.8	
-L- 22+13	RT	512	502		709.4	709.3	
-L- 22+40	RT	512		714.9			
-L- 22+40	RT	513	512		709.9	709.6	
-L- 22+88	LT	514		714.4			
-L- 22+88	LT	514	513		710.3	710.1	
-L- 22+40	RT	513		714.6			
-L- 22+40	RT	515	513		710.4	710.1	
-L- 23+39	LT	516		713.7			
-L- 23+39	LT/RT	516	515		710.7	710.6	
-L- 23+50	RT	515		713.8			
-Y4- 11+25	RT						

Drainage pipe (RCP, CSP, CAAP, HDPE, or PVC), C.S. pipe, R.C. pipe Class III

(Size / thickness or gauge)

	DRAINAGE PIPE 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" .064	15" .064	18" .064	24" .064	30" .079	36" .079	42" .109	48" .109	R.C. PIPE CLASS III 12"	15"	18"	24"	30"	36"	42"	48"
SHEET 3D-2 TOTALS	0	0	0	0	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHEET 3D-1 TOTALS	0	0	47	0	0	0	0	0					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROJECT TOTALS	**0**	**0**	**47**	**0**	**0**	**0**	**0**	**0**					**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

R.C. pipe Class IV, endwalls, berm drainage outlet, quantities for drainage structures

STATION	FROM	TO	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	48"	** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	HEADWALL TRASH RACK EA C.S.P.	BERM DRAINAGE OUTLET SQ. YARDS STD. 850.10	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
-Y2- 13+53	511																			1		
-Y2- 13+53	511	510		25																		
-Y2- 13+53	510																			1		
-Y2- 13+53	510	509		28																		
-Y2- 13+27	509																			1		
-Y2- 13+27	509	508		23																		
-Y2- 13+03	508																			1		
-Y2- 13+03	508	507		92																		
-Y2- 12+19	507																			1		
-Y2- 12+19	507	506		51																		
-Y2- 11+64	505																			1		
-Y2- 11+64	505	506		25																		
-Y2- 11+65	506																			1		
-Y2- 11+65	506	504		78																		
-L- 21+48	504																			1		
-L- 21+48	504	503		33																		
-L- 21+48	503																			1	1.00	
-L- 21+48	503	502		70																		
-L- 22+13	502																			1	0.83	
-L- 22+13	502	501			104																	
-L- 22+13	512	502		25																		
-L- 22+40	512																			1	0.51	
-L- 22+40	513	512		54																		
-L- 22+88	514																			1		
-L- 22+88	514	513		32																		
-L- 22+40	513																			1		
-L- 22+40	515	513		58																		
-L- 23+39	516																			1		
-L- 23+39	516	515		32																		
-L- 23+50	515																			1		
SHEET 3D-2 TOTALS			0	626	104	0	0	0	0	0	0	0	0	0	0	0		0	0	15	2.34	
SHEET 3D-1 TOTALS			0	474	660	137	0	0	0	0	0	0	0	0	0	1.5		2	4.5	12	0	
PROJECT TOTALS			**0**	**1,100**	**764**	**137**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.5**		**2**	**4.5**	**27**	**2.34**	

Catch basins, frames and grates, drop inlets, junction boxes, pipe removal

STATION	FROM	TO	C.B. STD. 840.01 OR STD. 840.02	SPECIAL OFFSET CB (SEE SPECIAL DETAIL)	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME WITH TWO GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH GRATE STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. W/ M.H.STD. 840.31 OR 840.32	DRAINAGE PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-Y2- 13+53	511		1				1																	
-Y2- 13+53	510		1			1																		
-Y2- 13+27	509		1				1																	
-Y2- 13+03	508		1			1																		
-Y2- 12+19	507		1			1																		
-Y2- 11+64	505		1				1																	
-Y2- 11+65	506		1			1																		
-L- 21+48	504		1				1																	
-L- 21+48	503		1			1																		
-L- 22+13	502		1			1																		
-L- 22+40	512		1				1																	
-L- 22+88	514		1				1																	
-L- 22+40	513		1			1																		
-L- 23+39	516		1		1																			
-L- 23+50	515		1		1																			
-Y4- 11+25																							17	EXIST. 15" RCP
SHEET 3D-2 TOTALS			15	0	2	7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.0	
SHEET 3D-1 TOTALS			11	1	0	7	5	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	77.0	
PROJECT TOTALS			**26**	**1**	**2**	**14**	**11**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**0**	**0**	**94.0**	

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.)	(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

1/5/2026
X:\Raleigh\17-1112.013 - HL-0025 - Greylock Ridge Rd Ext\05-CAD\Greylock_Ridge_Ext\Hydraulics\CADD\PSH\Greylock_Hyd_psh03D.dgn
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