COMPUTED BY: VT DATE: 3–15–11
CHECKED BY: LJ DATE: 3–15–11

PROJECT REFERENCE NO.: W-560IN | SHEET NO.: 3A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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".

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

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

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
–L– 10+62.28	RT	1		56.13	52.38														
–L– 11+50.00	RT	2		55.92	52.67														
–L– 11+50.00	LT	3		56.68	53.68														
–Y– 11+72.87	LT	4		55.92	52.78														
–L– 12+64.55	LT	5		56.10	53.10														
–Y– 11+72.87	RT	6		55.93	52.93														
–L– 14+02.58	RT	7		56.38	53.38														
–L– 15+00.00	LT	8		56.03	52.75														
–L– 14+02.58	LT	9		56.08	52.95														
–Y– 13+10.88	RT	10		56.08	53.08														
–L– 10+83.60	LT	IN	1		52.75	52.38													
–L– 11+50.00	RT	2	1		52.67	52.38													
–L– 11+50.00	LT	3	2		53.68	52.67													
–Y– 11+72.87	LT	4	OUT		52.78	52.70													
–L– 12+64.55	LT	5	4		53.10	52.78													
–Y– 11+72.87	RT	6	4		52.93	52.78													
–Y– 11+50.00	RT	IN	6		54.72	52.93													
–L– 14+02.58	RT	7	6		53.38	52.93													
–L– 15+00.00	LT	8	OUT		52.75	52.56													
–L– 14+02.58	LT	9	8		52.95	52.75													
–Y– 13+10.88	RT	10	9		53.08	52.95													
–Y– 13+58.52	RT	IN	10		53.80	53.08													
–L– 10+82.92	CL																		
–L– 12+79.50	RT																		
TOTALS																			

STATION	CORRUGATED ALUMINUM PIPE 12" (.064)	15" (.064)	18" (.064)	24" (.064)	36" (.079)	42" (.109)	48" (.109)	R.C. PIPE (CLASS III) 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS IV) 12"	15"	18"	24"	30"	36"	42"	48"
–L– 10+62.28																						
–L– 11+50.00																						
–L– 11+50.00																						
–Y– 11+72.87																						
–L– 12+64.55																						
–Y– 11+72.87																						
–L– 14+02.58																						
–L– 15+00.00																						
–L– 14+02.58																						
–Y– 13+10.88																						
–L– 10+83.60																		56				
–L– 11+50.00																	86					
–L– 11+50.00																44						
–Y– 11+72.87																	36					
–L– 12+64.55																98						
–Y– 11+72.87																68						
–Y– 11+50.00																20						
–L– 14+02.58																72						
–L– 15+00.00																	96					
–L– 14+02.58																	96					
–Y– 13+10.88																64						
–Y– 13+58.52																52						
–L– 10+82.92																						
–L– 12+79.50																						
TOTALS																418	314	56				

STATION	**" 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
–L– 10+62.28								1			
–L– 11+50.00								1			
–L– 11+50.00								1			
–Y– 11+72.87								1			
–L– 12+64.55								1			
–Y– 11+72.87								1			
–L– 14+02.58								1			
–L– 15+00.00								1			
–L– 14+02.58								1			
–Y– 13+10.88								1			
–L– 10+83.60											
–L– 11+50.00											
–L– 11+50.00											
–Y– 11+72.87											
–L– 12+64.55											
–Y– 11+72.87											
–Y– 11+50.00											
–L– 14+02.58											
–L– 15+00.00											
–L– 14+02.58											
–Y– 13+10.88											
–Y– 13+58.52											
–L– 10+82.92											
–L– 12+79.50											
TOTALS								10			

STATION	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G		CONCRETE TRANSITIONAL SECTION CATCH BASIN	DROP INLET		G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.29	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	D.I. STD. 840.14	C.B. STD. 840.02	CONC. JUNCTION BOX WITH MANHOLE STD. 840.31	MANHOLE FRAME AND COVER STD. 840.54	PIPE REMOVAL LIN.FT.	REMARKS
–L– 10+62.28														1	1		PROP. JUNCTION BOX WITH MANHOLE
–L– 11+50.00	1												1				PROP. CATCH BASIN
–L– 11+50.00			1										1				PROP. CATCH BASIN
–Y– 11+72.87	1												1				PROP. CATCH BASIN
–L– 12+64.55	1												1				PROP. CATCH BASIN
–Y– 11+72.87	1												1				PROP. CATCH BASIN
–L– 14+02.58			1										1				PROP. CATCH BASIN
–L– 15+00.00	1												1				PROP. CATCH BASIN
–L– 14+02.58	1												1				PROP. CATCH BASIN
–Y– 13+10.88	1												1				PROP. CATCH BASIN
–L– 10+83.60																	PROP. 24" RCP
–L– 11+50.00																	PROP. 18" RCP
–L– 11+50.00																	PROP. 15" RCP
–Y– 11+72.87																	PROP. 18" RCP
–L– 12+64.55																	PROP. 15" RCP
–Y– 11+72.87																	PROP. 15" RCP
–Y– 11+50.00																	PROP. 15" RCP
–L– 14+02.58																	PROP. 15" RCP
–L– 15+00.00																	PROP. 18" RCP
–L– 14+02.58																	PROP. 18" RCP
–Y– 13+10.88																	PROP. 15" RCP
–Y– 13+58.52																	PROP. 15" RCP
–L– 10+82.92																44	PIPE REMOVAL
–L– 12+79.50																54	PIPE REMOVAL
TOTALS	7		2										9	1	1	98	

SUMMARY OF EARTHWORK
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
–L– 10+50.00 – 12+64.55	181	0	304	123	0
–L– 14+02.58 – 16+00.00	108	0	310	202	0
–Y– 11+00.00 – 11+72.87	63	0	76	13	0
–Y– 13+10.88 – 14+50.00	92	0	126	34	0
–R– 10+00.00 – 14+33.54	134	0	1,206	1,072	0
UNDERCUT (CONTINGENCY)		200	240	240	200
SUB TOTAL	578	200	2,262	1,684	200
SAY	580	200	2,270	1,690	200

PAVEMENT REMOVAL SUMMARY
IN SQUARE YARDS

LINE	STATION – STATION	LOCATION	REMOVAL (SY)
–L–	10+61.00 – 15+50.00	CL	2,258
–Y–	11+00.00 – 14+50.00	CL	
TOTAL			2,258
		SAY	2,300

NOTE:

APPROXIMATE QUANTITIES ONLY, UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING."

4/04/06
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