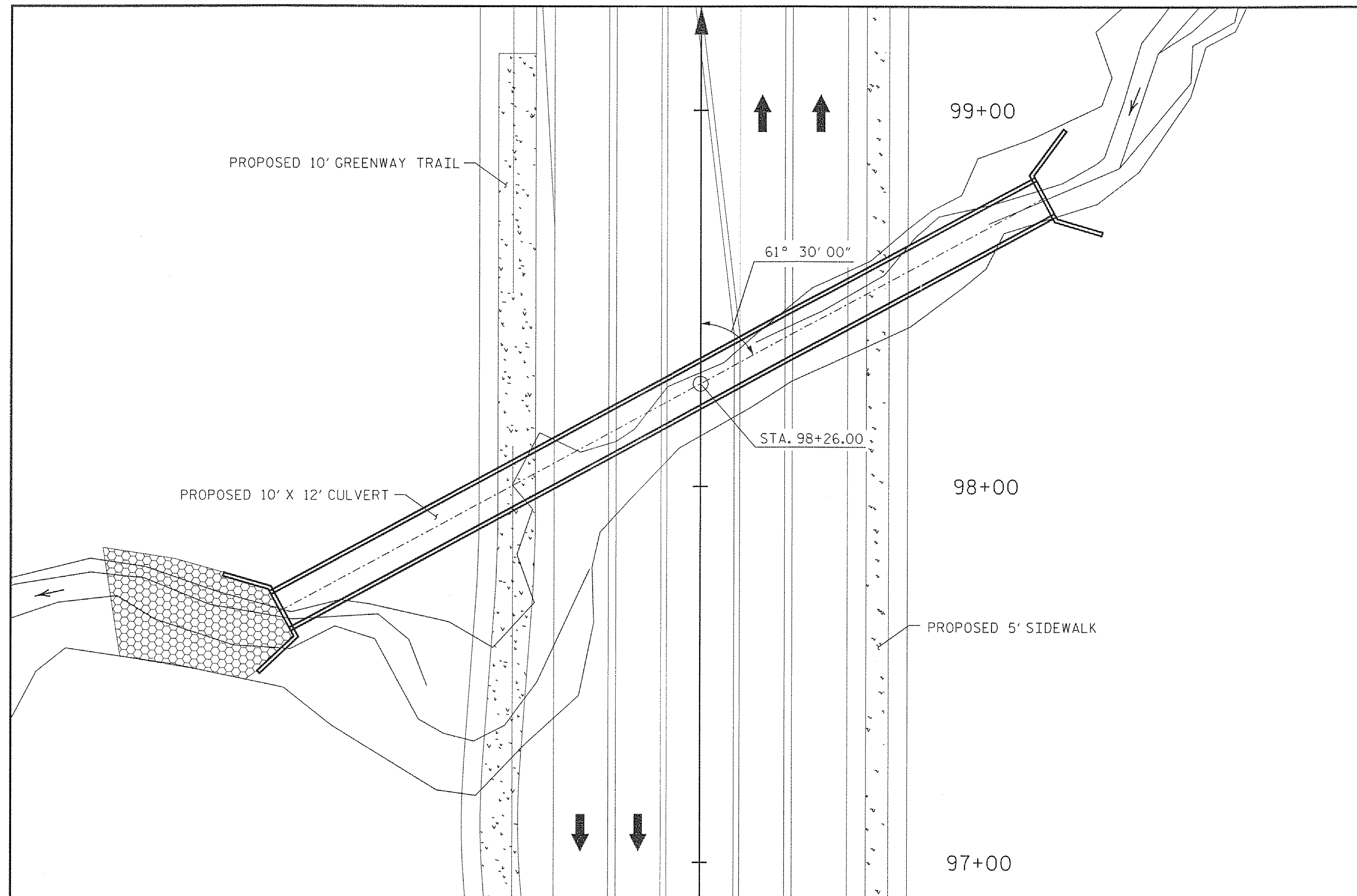


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LOCATION SKETCH

NOTES

ASSUMED LIVE LOAD -----HS20-44 OR ALTERNATE LOADING.

DESIGN FILL----- 24.75'

FOR OTHER DESIGN DATA AND NOTES SEE SHEET S7.0.

3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE IN THE CULVERT IS TO BE POURED IN THE FOLLOWING ORDER:

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF ALL VERTICAL WALLS.
2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.

THE PROJECT ENGINEER SHALL CHECK THE LENGTH OF THE CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON SHEETS S3.0 AND S4.0.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 70 FT. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE PROJECT ENGINEER.

AT THE CONTRACTORS OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

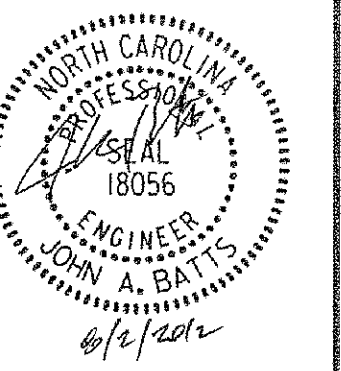
AN ALLOWABLE SOIL BEARING PRESSURE OF 4000 PSF WAS USED IN THE DESIGN OF THE WING WALL FOOTINGS. A GEOTECHNICAL ENGINEER SHALL VERIFY THE ACTUAL SOIL BEARING PRESSURE IN THE FIELD.

TOTAL STRUCTURE QUANTITIES	
3000 PSI CONCRETE	
BARREL @ 1.761 CY/FT	406.8 C.Y.
4 WINGS & 2 HEADWALLS	66.3 C.Y.
TOTAL	473.1 C.Y.
REINFORCING STEEL	
BARREL & 2 HEADWALLS	97,453 LBS.
4 WINGS	7,778 LBS.
TOTAL	105,231 LBS.
FOUNDATION CONDITIONING MATERIAL	195 TONS
STRUCTURE EXCAVATION	982 C.Y.

PLANS PREPARED BY:

SIMPSON
ENGINEERS
& ASSOCIATES
5520 Dillard Drive
Suite 120
Cary, NC 27518
(919) 852-0468
(919) 852-0598 (Fax)
www.simpsonnc.com
License No. C2521

SEALS



REVISIONS

DATE	COMMENTS

CONSTRUCTION DOCUMENT

HIGHCROFT VILLAGE
PHASE 5
10' X 12' CULVERT AT STA. 98+26
CARY WAKE COUNTY NORTH CAROLINA

REVIEWED BY:	MAA
DESIGNED BY:	JAB
DRAWN BY:	DGV
DATE:	5-8-12
PROJECT NUMBER:	

LOCATION SKETCH

S 1.0

MAY 2012

Cary Project Number (10-SB-004-B)
Cary HTE Number (12-1085)
Approved by the Town of Cary
Development Review Committee

Planner KAH Date 8/24/2012