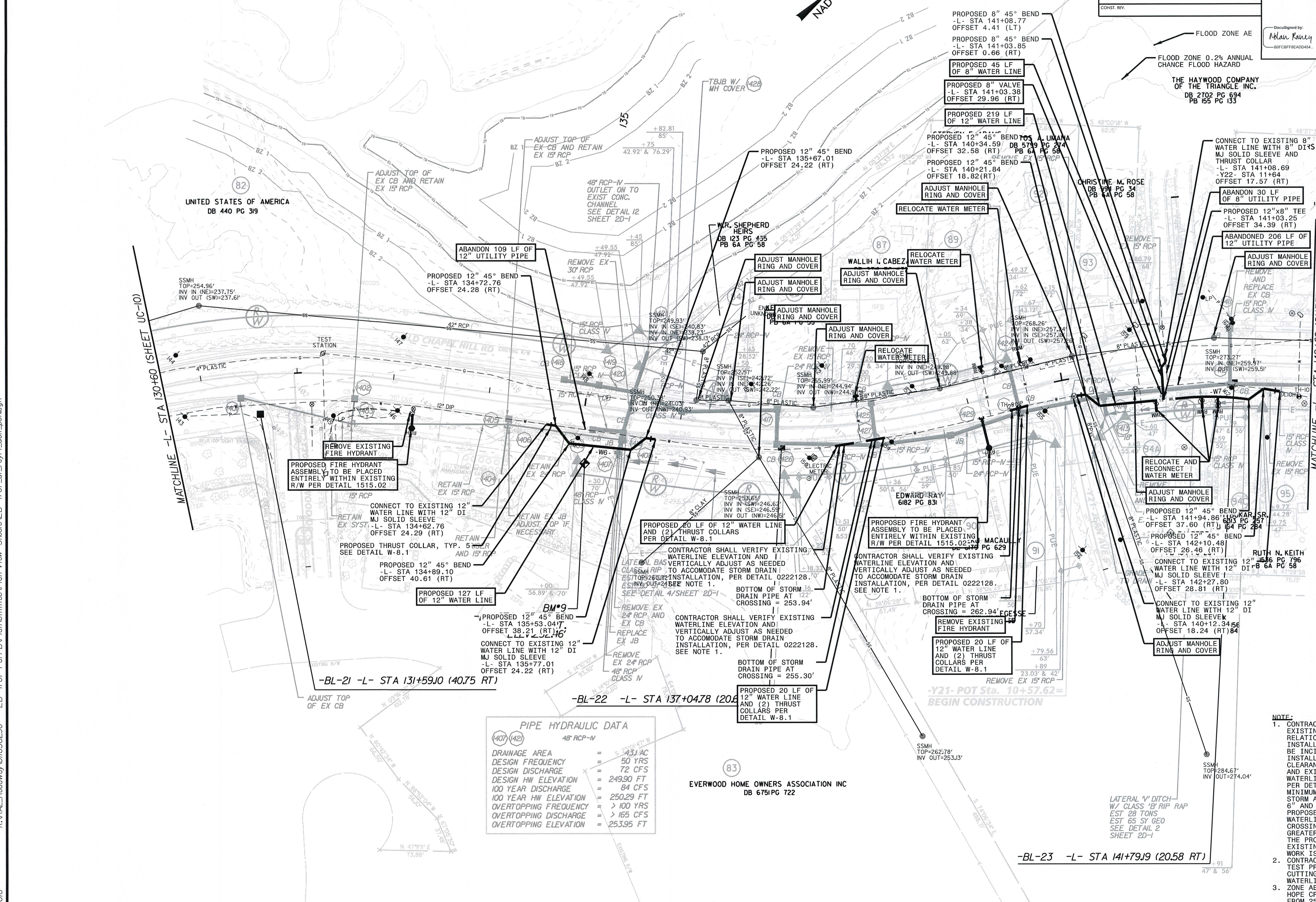


CITY OF DURHAM PUBLIC WORKS DEPARTMENT	
ENGINEERING	APPROVED
STORM WATER	DATE: 2/17/17
TRANSPORTATION	DATE:

Kimley»Horn

P.O. BOX 33068
RALEIGH, N.C. 27636-3068

PROJECT REFERENCE NO. EB-4707B	SHEET NO. UC-II
RW SHEET NO. UTILITY CONSTRUCTION ENGINEER	
NORTH CAROLINA PROFESSIONAL SEAL 037953 W. AND D. RAMEY	
DocuSigned by: M. Ramey 2/3/2017	



PIPE HYDRAULIC DATA

48" RCP-IV
DRAINAGE AREA = 43.1 AC
DESIGN FREQUENCY = 50 YRS
DESIGN DISCHARGE = 72 CFS
DESIGN HW ELEVATION = 249.90 FT
100 YEAR DISCHARGE = 84 CFS
100 YEAR HW ELEVATION = 250.29 FT
OVERTOPPING FREQUENCY = > 100 YRS
OVERTOPPING DISCHARGE = > 165 CFS
OVERTOPPING ELEVATION = 253.95 FT

NOTE:

- CONTRACTOR SHALL VERIFY EXISTING WATERLINE ELEVATION IN RELATION TO PROPOSED STORM PIPE INSTALLATION. INVESTIGATION SHALL BE INCIDENTAL TO STORM PIPE INSTALLATION. IF LESS THAN 6" CLEARANCE BETWEEN PROPOSED STORM AND EXISTING WATERLINE, RELOCATE WATERLINE AS SHOWN ON THE PLANS PER DETAIL 022211B AND PROVIDE 12" MINIMUM SEPARATION BETWEEN THE STORM AND WATERLINE. IF BETWEEN 6" AND 24" CLEARANCE BETWEEN THE PROPOSED STORM PIPE AND EXISTING WATERLINE, PROVIDE PIPELINE CROSSING PER DETAIL 022211B. IF GREATER THAN 24" CLEARANCE BETWEEN THE PROPOSED STORM PIPE AND EXISTING WATERLINE, NO ADDITIONAL WORK IS REQUIRED.
- CONTRACTOR SHALL INSTALL AND TEST PROPOSED WATERLINE PRIOR TO CUTTING AND CONNECTING TO EXISTING WATERLINE.
- ZONE AE FLOODPLAIN FOR NEW HOPE CREEK WITH BFES RANGING FROM 256.82 TO 255.81. 1% FUTURE CONDITIONS BFE RANGE FROM 257.79 TO 257.05.

K:\RAL_Roadway\01036290 - EB-4707 Part B\Plan\Utilities\Plan View Sheets\EB-4707_uc-ii_rdy\4_uc-ii_psh.dgn 12/14/2016