

LOT 3 - CULVERT DESIGN
 PINE GROVE SUBDIVISION
 OLD COLCHESTER ROAD
 MONTVILLE, CONN.

(SEE ATTACHED DRAINAGE AREA MAP)

AREA = 3.4 AC.

0.25 AC @ 0.9 (BIT/ROOF)

1.00 AC @ 0.35 (LAWN)

2.15 AC @ 0.25 (WOODS)

TOT A.C. = 1.1

$T_c \rightarrow$ 455' @ 8.0% - WOODED

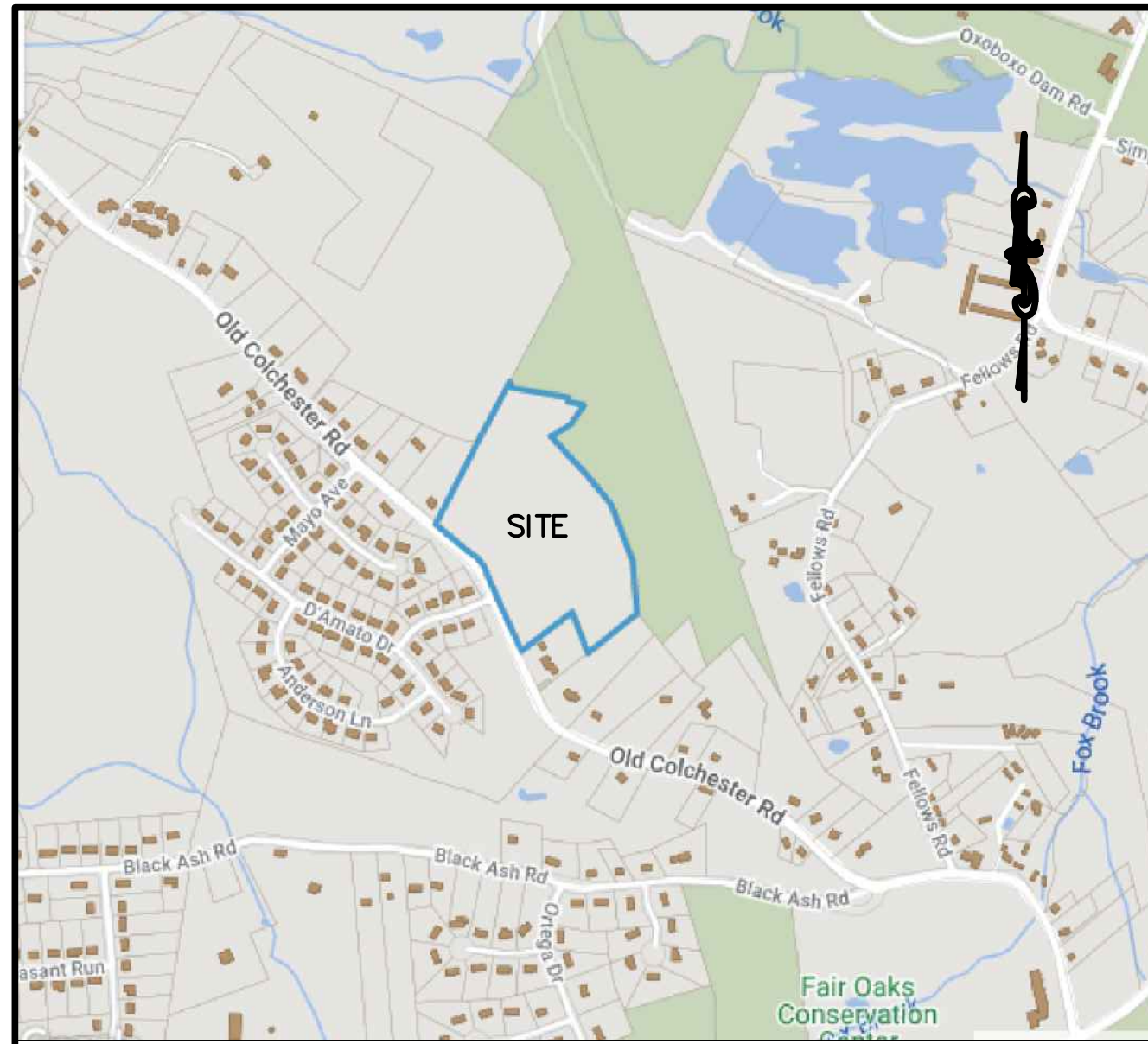
$T_c = 18$ MIN

$Q = C_i A \rightarrow$ 25 YR DESIGN

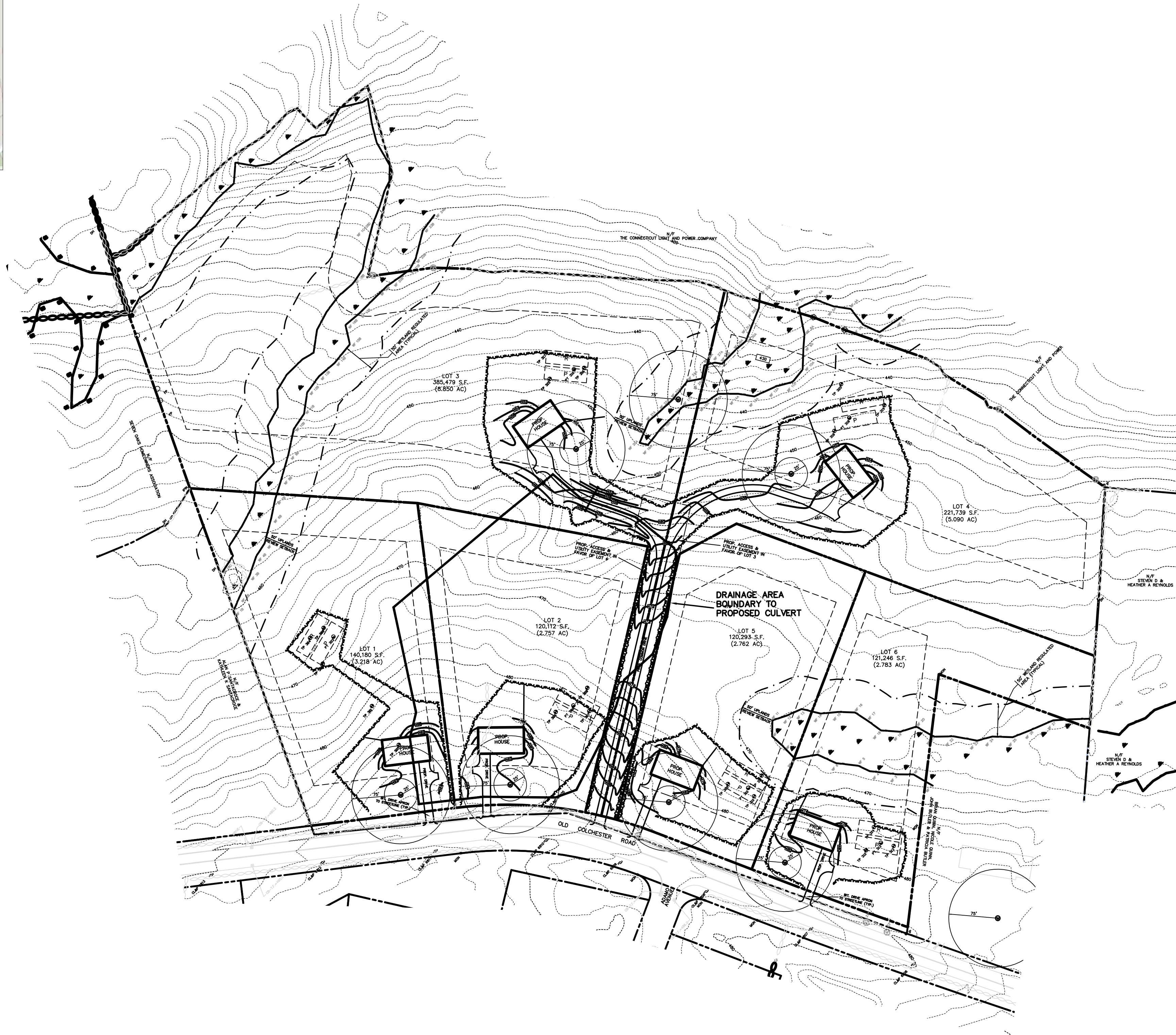
$Q = (1.1)(4.4 \text{ IN/HR}) = 4.8 \text{ CFS}$

$Q_{\text{MAX}} 15" \text{ CULVERT} = 5.9 \text{ CFS} \checkmark$

USE FLARED ENDS @ INLET & OUTLET
 W/ MOD RIP RAP APRONS.



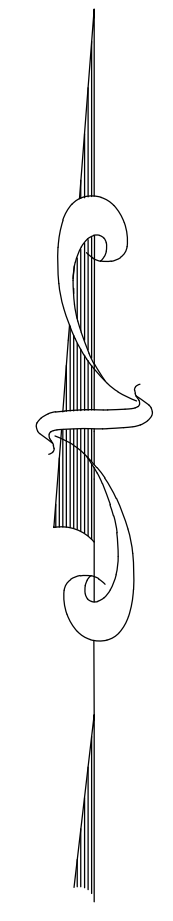
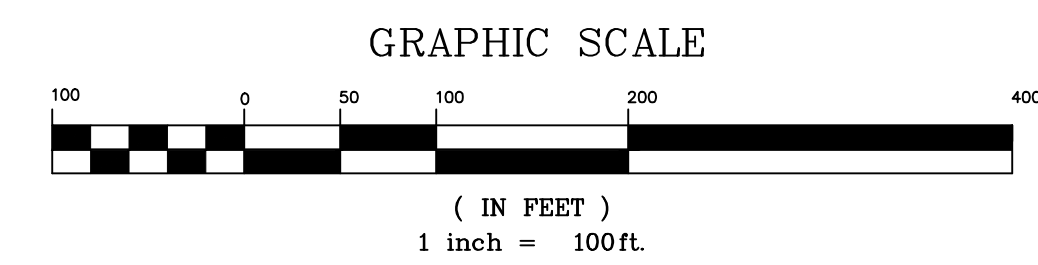
KEY MAP
SCALE : 1"=1000'



APPROVED
MONTVILLE PLANNING & ZONING COMMISSION

CHAIRMAN/SECRETARY _____	DATE _____
CHAIRMAN, INLAND WETLANDS AND WATERCOURSE COMMISSION _____	DATE _____
HEALTH DISTRICT _____	DATE _____

- LEGEND**
- PROPOSED IRON PIN ●
 - WETLAND UPLAND REVIEW LIMIT - - - - -
 - PROPERTY LINE = = = = =
 - BUILDING SETBACK LINE - - - - -
 - STONEWALL = = = = =
 - FENCE x x x x x
 - EXISTING CONTOUR - - - - -
 - NRCS SOIL SURVEY BOUNDARY - - - - -



I HEREBY DECLARE TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAN IS SUBSTANTIALLY CORRECT.

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DRAINAGE PLAN - PROPOSED CULVERT
PINE GROVE SUBDIVISION
PREPARED FOR
D'AMATO BROTHERS BUILDERS
OLD COLCHESTER ROAD
MONTVILLE, CONNECTICUT

DATE: 11-16-22
SCALE: 1"=100'
SHEET 4 OF 8
MAP NO. 22-013-10C