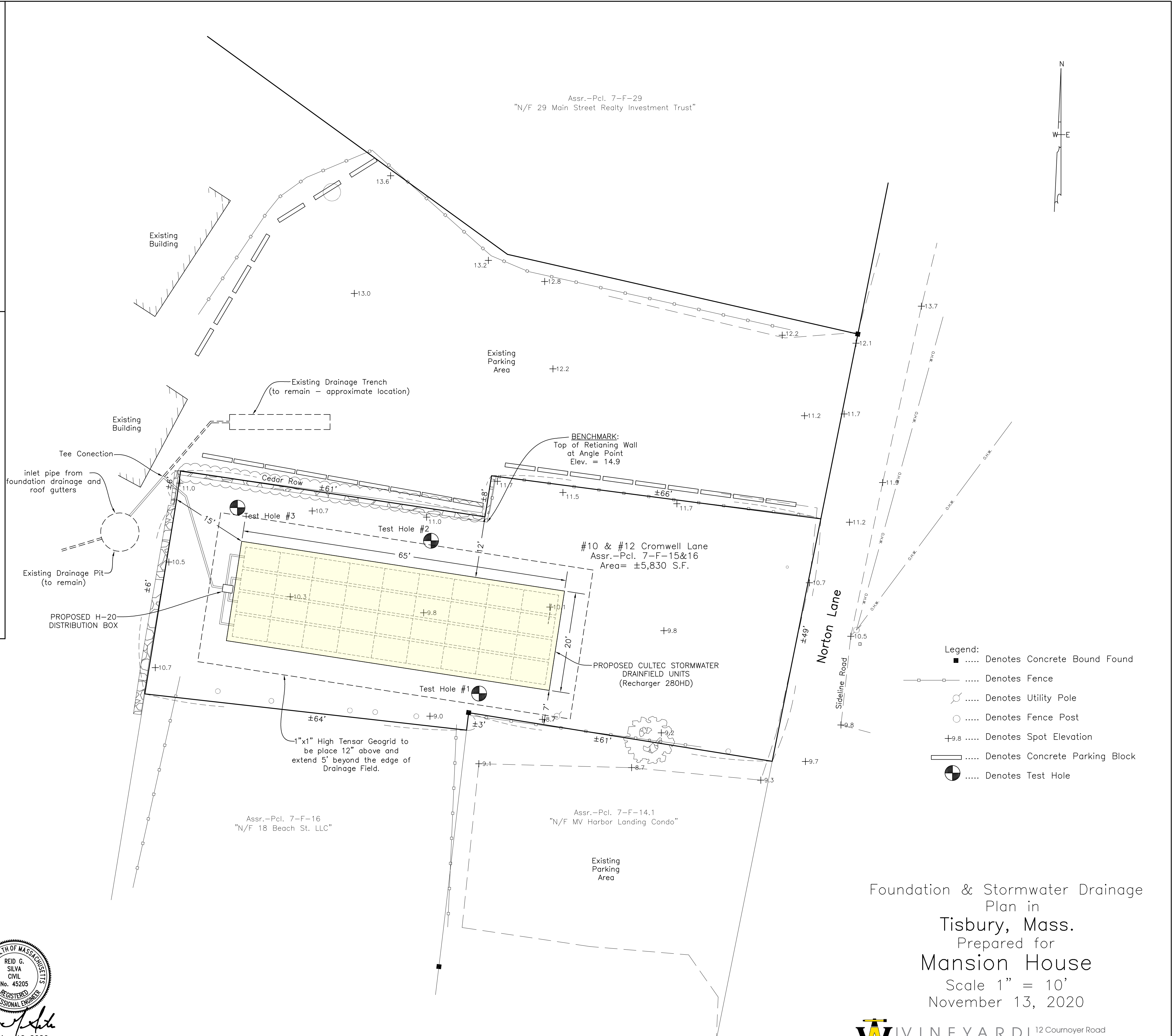
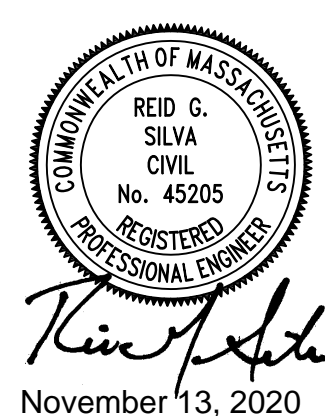


**FLOW CALCULATIONS:**  
 foundation sump drainage contribution: 25,000 GPD (see note 13)  
 Stormwater roof runoff contribution: 9,400 GPD (see note 14)  
 Total: 35,400 GPD

**Drainfield Capacity:**  
 Field size: 20' x 65' = 1,300 SF  
 Soil permeability: K = 5 ft/day  
 Capacity: 1,300 SF x 5 ft/day x 7.48 gal/ft<sup>3</sup> = 48,600 GPD

- NOTES:**
- This plan is intended for the purposes of design and location of a sub-surface drainage system to handle stormwater roof, foundation and parking area runoff.
  - Construction of the Cultec Drainfield shall not occur during periods of rain or snow to avoid siltation.
  - Installation of the Cultec Recharger Drainfield shall conform to all applicable Cultec installation specifications.
  - Gravel used shall for the Drainage structures shall be 1" - 2" washed stone unless otherwise specified.
  - Cultec Drainfield has been designed for clean sands with a permeability of 5 ft per day or less as per soil testing performed by VLSE. If soil conditions found during excavation differ from clean sand, the design engineer shall be notified before proceeding with the installation.
  - There shall be no heavy machinery used within 3' above any leaching area, to avoid compaction.
  - The down spout drain line shall consist of 4" shed. 40 PVC solid pipe and have a negative pitch to the leaching area of 2% minimum.
  - Cultec rows shall be interconnected with feed connectors if needed.
  - Elevation Datum ±U.S.G.S.
  - Estimated flow contribution from foundation drainage obtained from Tisbury DPW estimates.
  - Roof runoff calculation is based on assumed roof contribution area of 2,500 SF and a 25 year, 24 hour storm event
  - The drainfield has been over-sized to accommodate future parking area improvements.



- Legend:**
- ..... Denotes Concrete Bound Found
  - Denotes Fence
  - Denotes Utility Pole
  - Denotes Fence Post
  - +9.8 ..... Denotes Spot Elevation
  - ▭ ..... Denotes Concrete Parking Block
  - ⊙ Denotes Test Hole

Foundation & Stormwater Drainage  
 Plan in  
 Tisbury, Mass.  
 Prepared for  
 Mansion House  
 Scale 1" = 10'  
 November 13, 2020

