

DESIGN NOTES:
 Design Storm Event: 25 Year 1-Hour storm
 2.3 Inches/Hour (0.1917 Ft./hr.)
 6'x10' Drainage Basin Capacity ±1,150 CF/Hour
 8'x12' Drainage Basin Capacity ±2,000 CF/Hour

Stormwater Contribution Area (SF):
 Adjacent buildings: 12,950
 Adjacent paved area: 22,300
 Locus building: 14,400
 Locus paved area: 15,450
 Total: 65,100

Infiltration required:
 65,100 SF * 0.1917 Ft./hr. = 12,480 CF/hr.

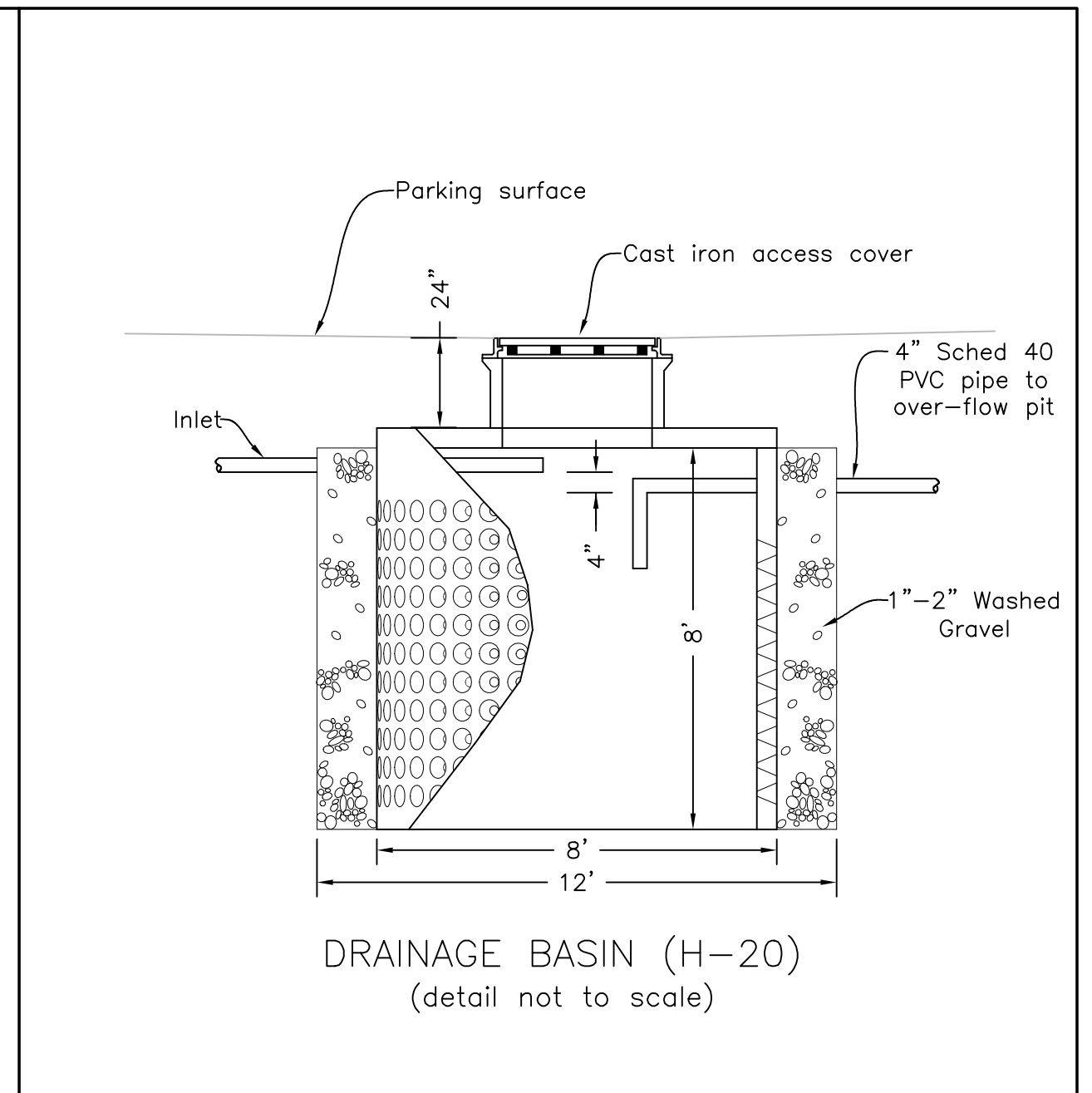
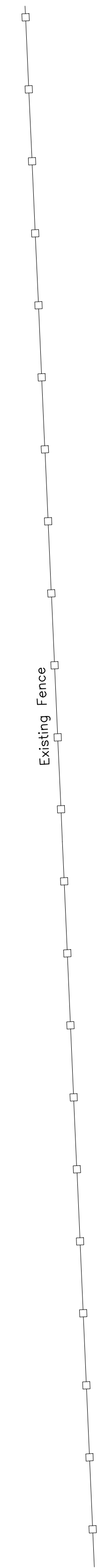
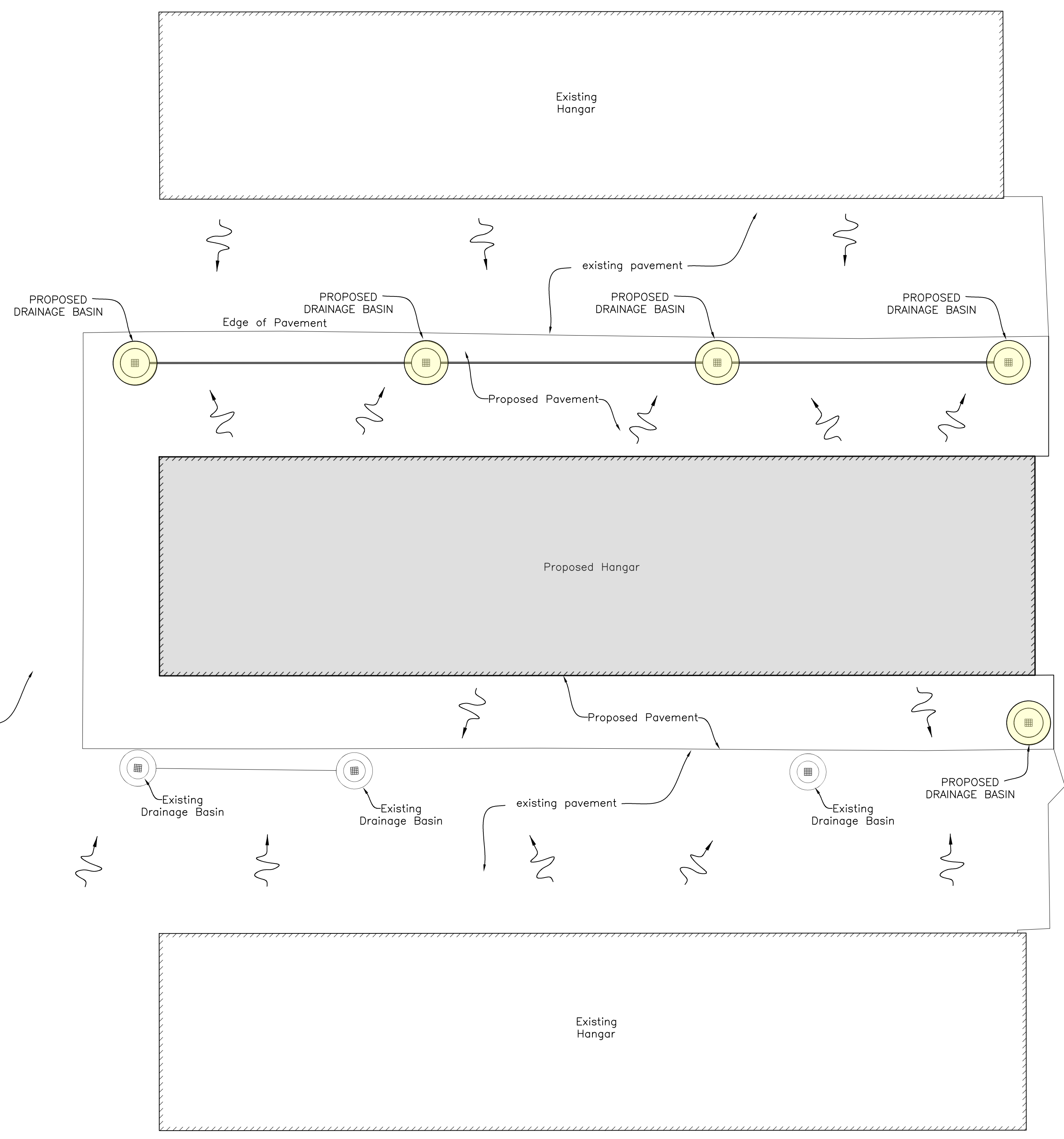
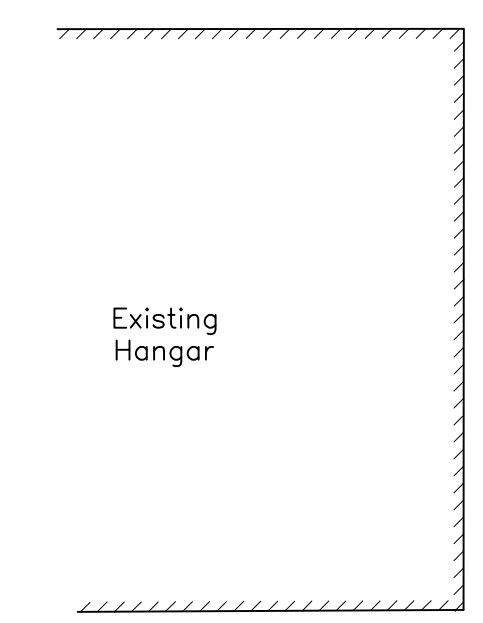
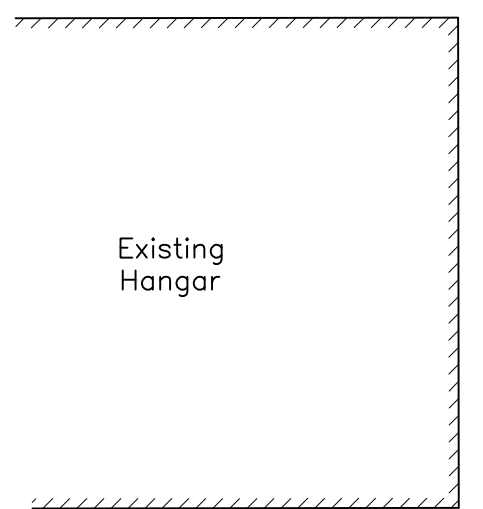
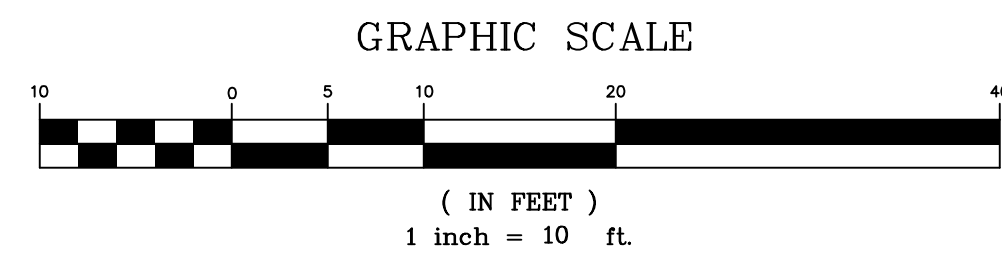
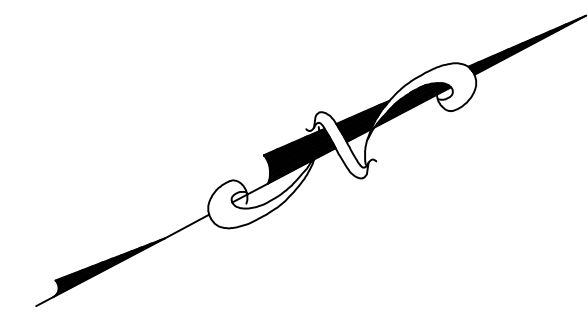
Infiltration provided:
 Existing pits: 3 * 1,150 CF/hr = 3,450 CF/hr
 Proposed pits 5 * 2,000 CF/hr. = 10,000 CF/hr.
 Total = 13,450 CF/hr.

- NOTES:**
1. This plan is intended for the purposes of design and location of a sub-surface drainage system to handle roof and parking area stormwater runoff.
 2. All asphalt aprons, taxiways and parking areas shall pitch at 1.5% toward drainage basin grates. The contractor and owner are responsible for ensuring positive pitch from the hangar slab to the drainage basins.
 3. Construction of the drainage system shall not occur during periods of rain or snow to avoid siltation.
 4. Gravel used shall for the Drainage structures shall be 1" - 2" washed stone unless otherwise specified.
 5. Drainage pits have to be designed for clean sands and gravel with a permeability of 50 ft per day or less. If soil conditions found during excavation differ from clean sand, the design engineer shall be notified before proceeding with the installation.
 6. There shall be no heavy machinery used within 3' above any leaching area, to avoid compaction.
 7. A 4" shed. 40 PVC solid pipe shall be installed level between the pits as shown to allow overflow distribution.
 8. Elevation Datum ±U.S.G.S.

LEGEND:
 x 51.0 Denotes Spot Elevation

Stormwater Drainage
 Plan in
 West Tisbury, Mass.
 Prepared for
 Gary Bendavid
 Scale 1" = 10' December 21, 2022

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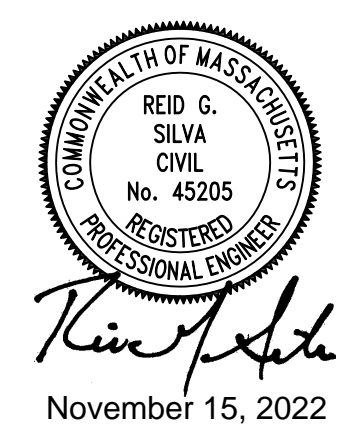
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Stormwater Drainage
Plan in
West Tisbury, Mass.
Prepared for
Gary Bendavid
Scale 1" = 10' November 14, 2022

