DRAINAGE CALCULATIONS:

EXISTING MAIN HOUSE = 503.25 S.F. $(16.5' \times 30.5')$ = 195.75 S.F. (14.5' X 13.5') REAR SHACK SHACK ENTRANCE = 30.25 S.F. (5.5' X 5.5')

= 81.00 S.F. (6.75' X 12.0') PORCH

TOTAL EXISTING ROOF = 810.25 S.F. DEMOLISHED ROOF = 307.00 S.F.

= 503.25 S.F.REMAINING ROOF

PROPOSED FLAT ROOF = 745.00 S.F.

NET INCREASE IN ROOF = 438.00 S.F.

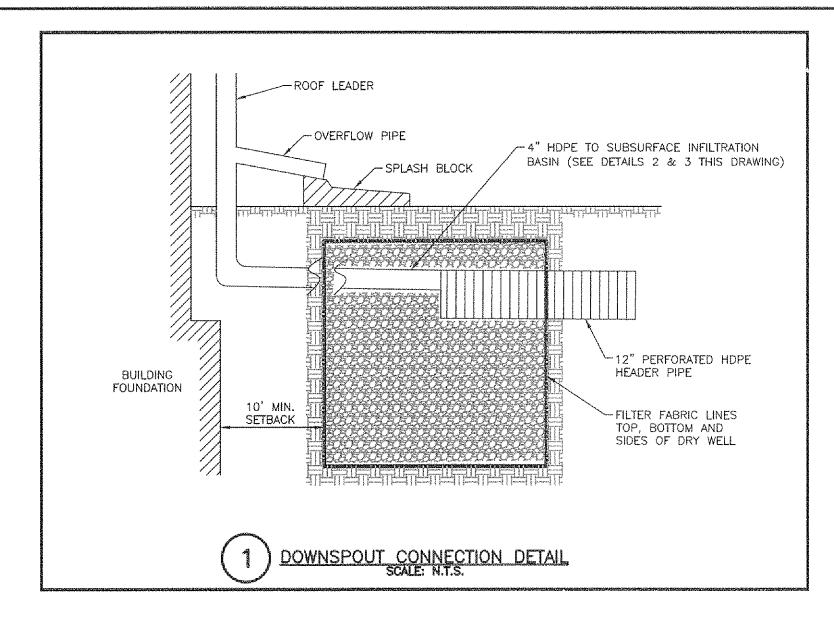
TOTAL PROPOSED ROOF = 1,248.25 S.F.

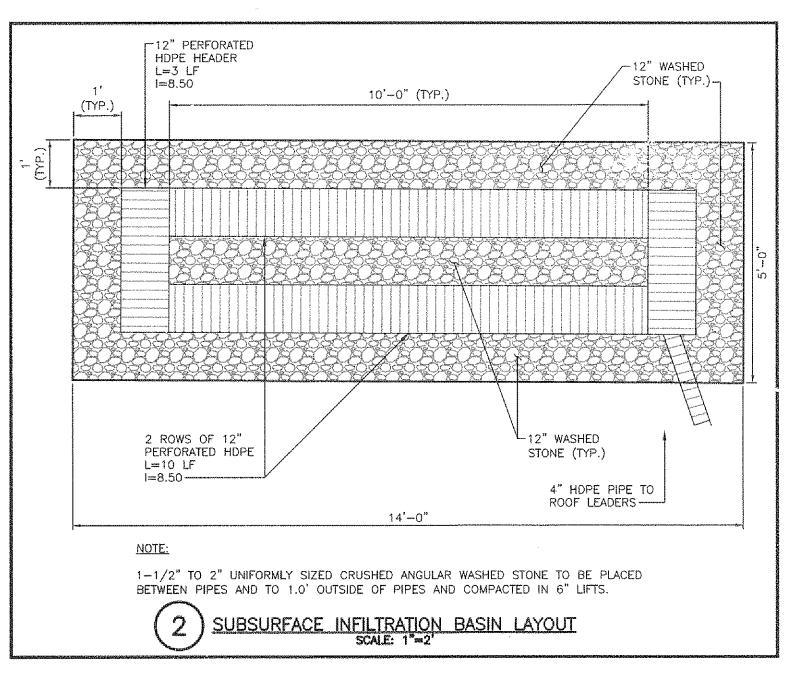
SUBSURFACE INFILTRATION BASIN (SIB):

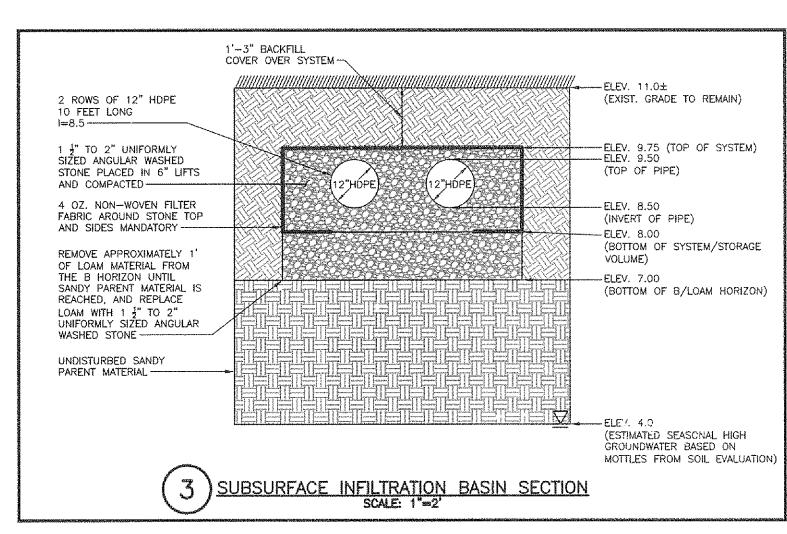
PROPOSED ROOF FLOWING TO SIB = 358.00 S.F.

ADDITIONAL EXISTING ROOF AREA DRAINING ONTO PROPOSED ADDITION= 252.00 S.F.

TOTAL ROOF AREA FLOWING TO SIBI = 610.00 S.F.

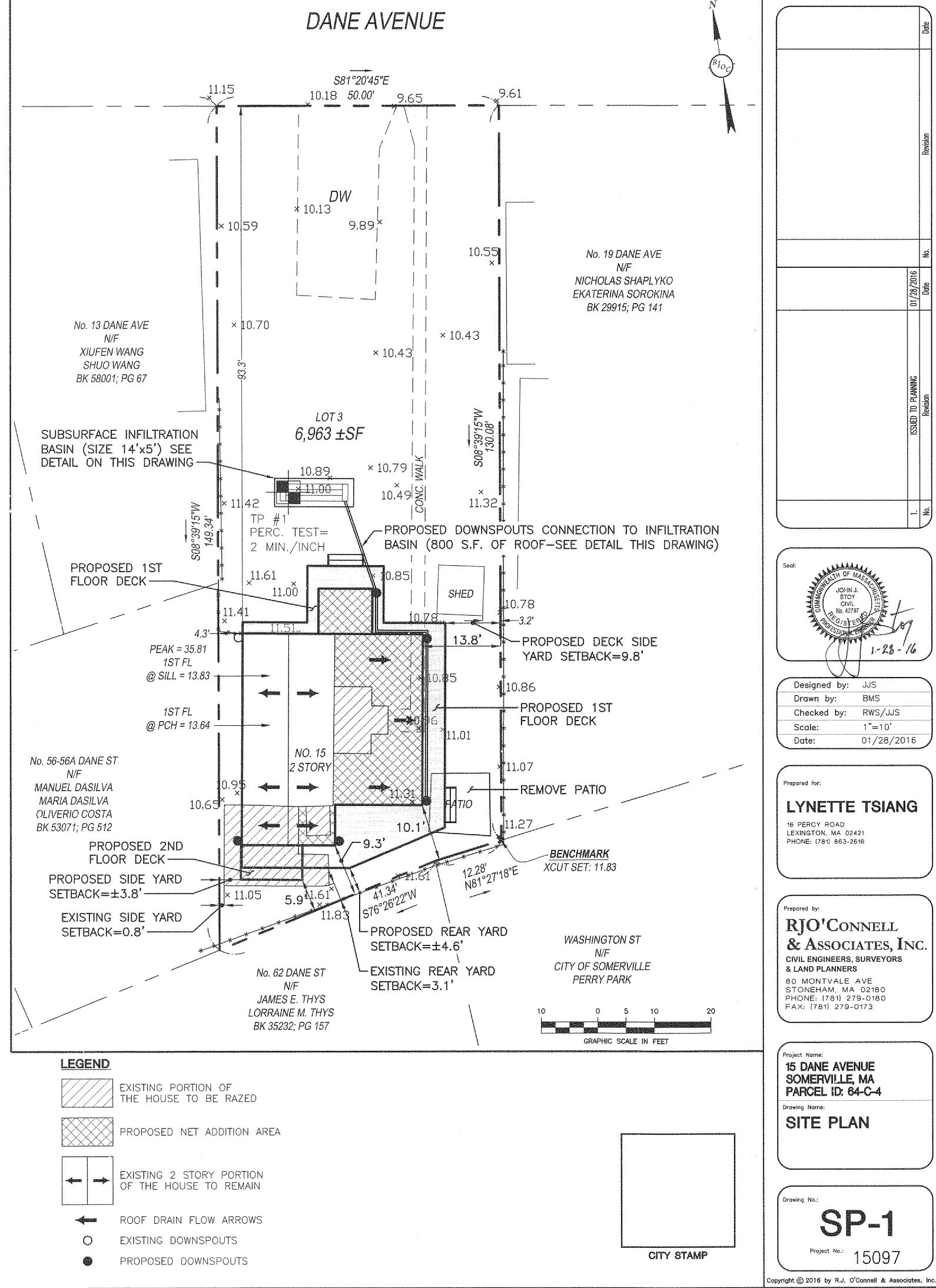






GENERAL NOTES:

- 1. CONTRACTOR TO CONTACT THE CITY OF SOMERVILLE ENGINEERING DEPARTMENT TO SCHEDULE INSPECTIONS BY A REPRESENTATIVE OF THE ENGINEERING DEPARTMENT BEFORE, DURING, AND AFTER CONSTRUCTION OF THE SUBSURFACE INFILTRATION BASIN.
- 2. SWING TIES LOCATING THE AS-BUILT SUBSURFACE INFILTRATION BASIN COMPONENTS AND LIMITS ARE REQUIRED BY THE CITY OF SOMERVILLE ENGINEERING DEPARTMENT PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- 3. EXISTING SPOT GRADES TO BE MAINTAINED.
- 4. EXISTING CONDITIONS TAKEN FROM A CERTIFIED PLOT PLAN SURVEY PREPARED BY BOSTON SURVEY, INC. DATED OCTOBER 27, 2105.
- 5. REFER TO DRAWINGS PREPARED BY DAVID DE SOLA OF 3IVE LLC FOR ARCHITECTURAL DETAILS.



RWS/JJS

1"=10"

01/28/2016