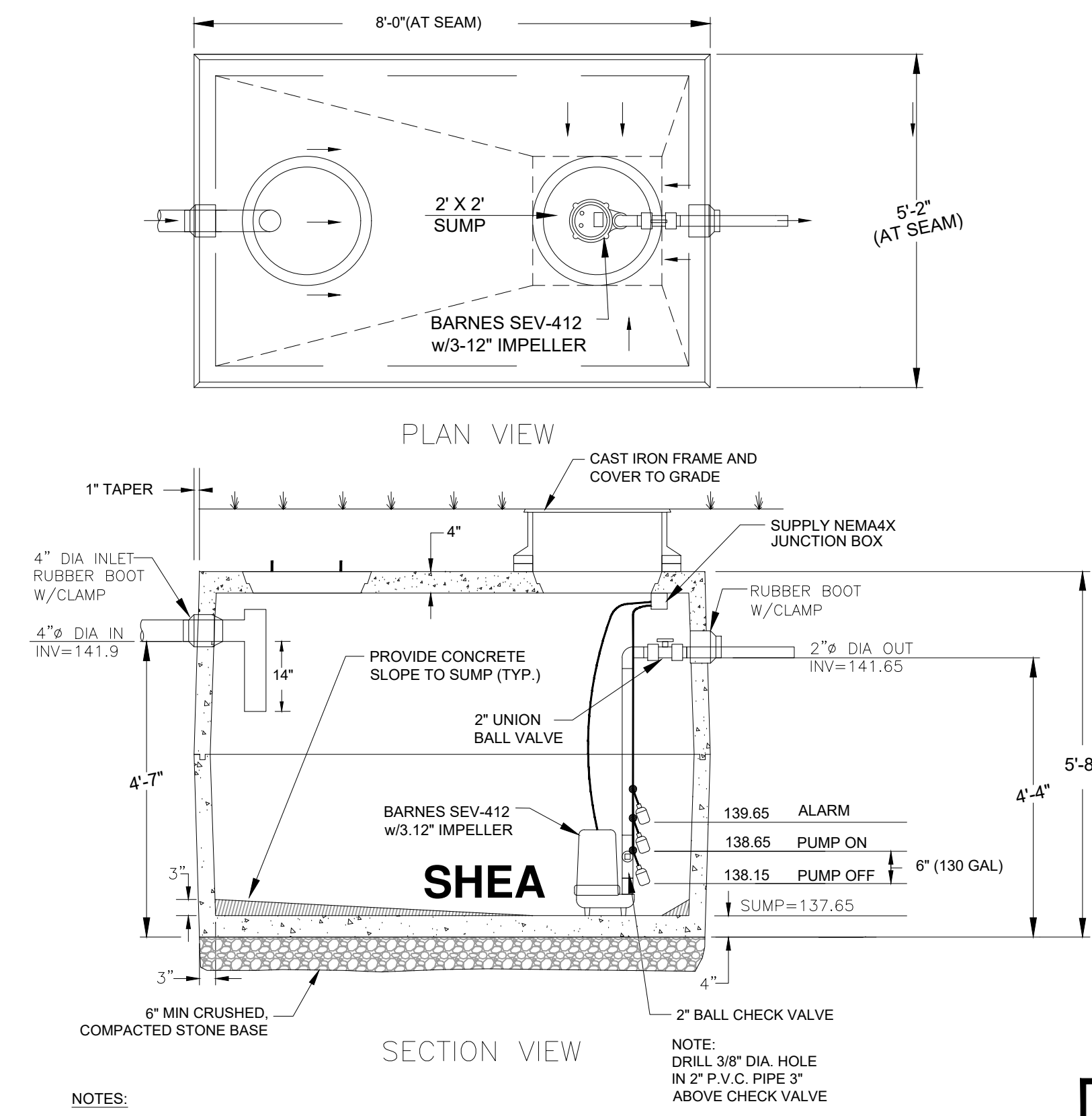
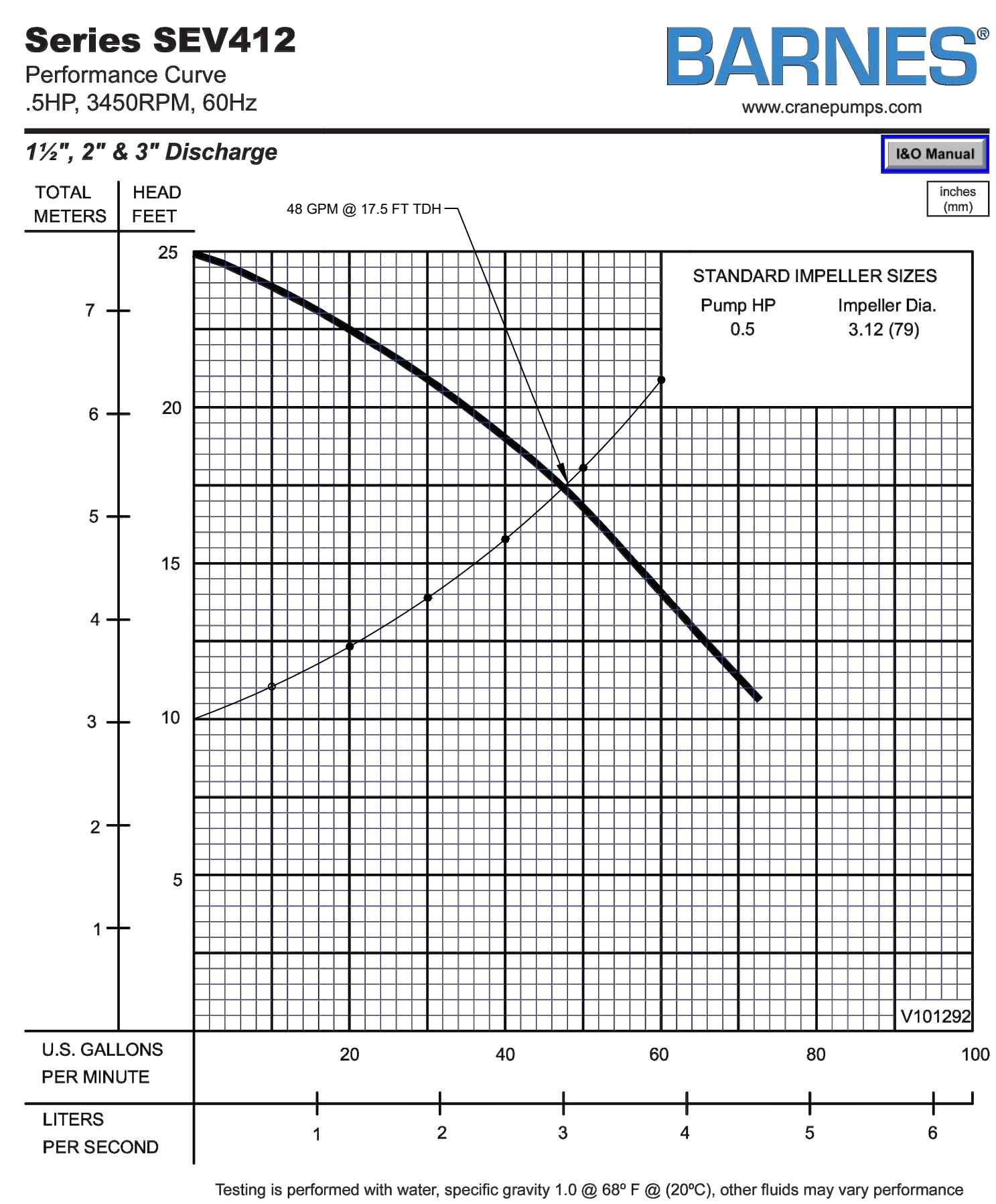
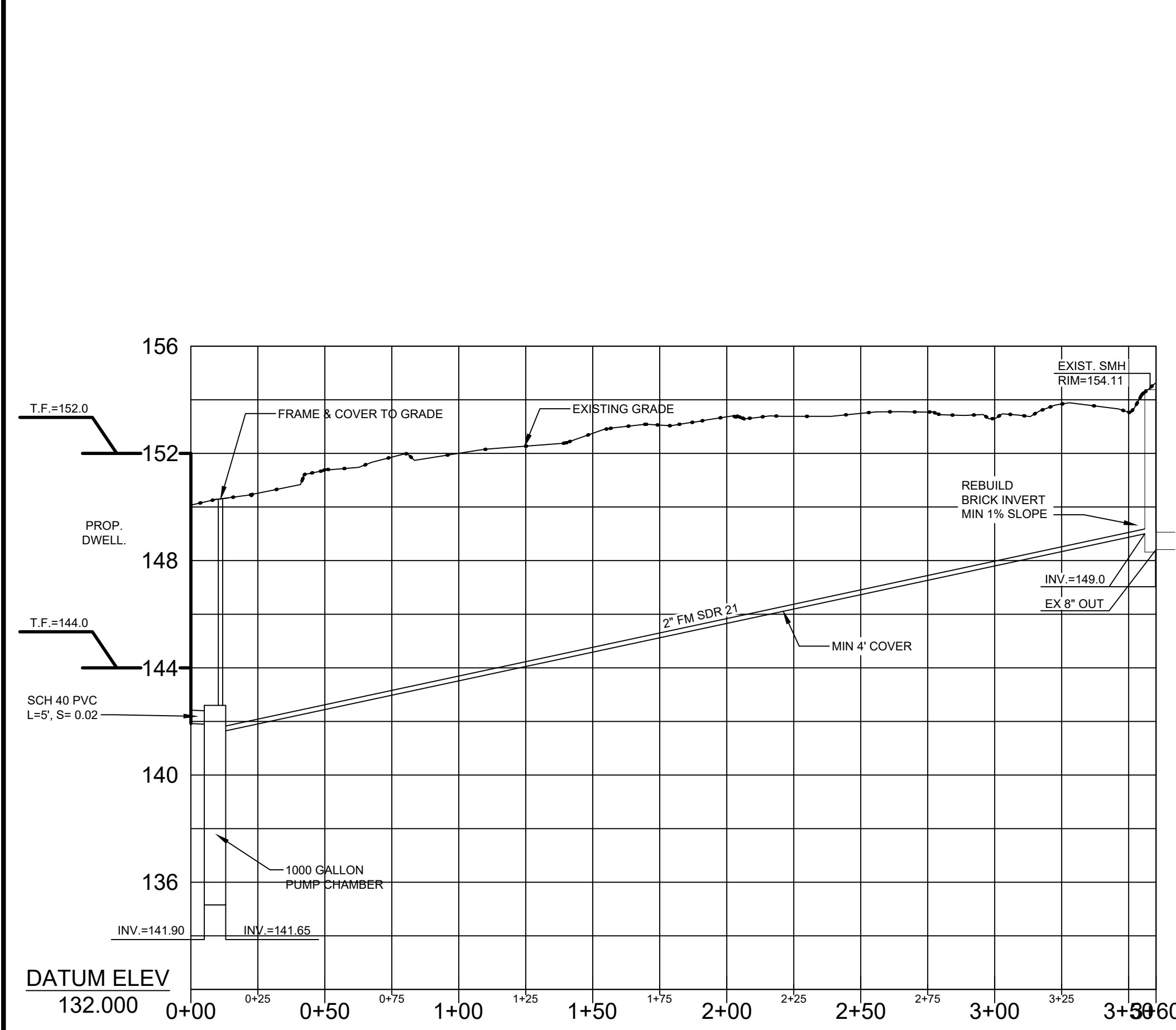
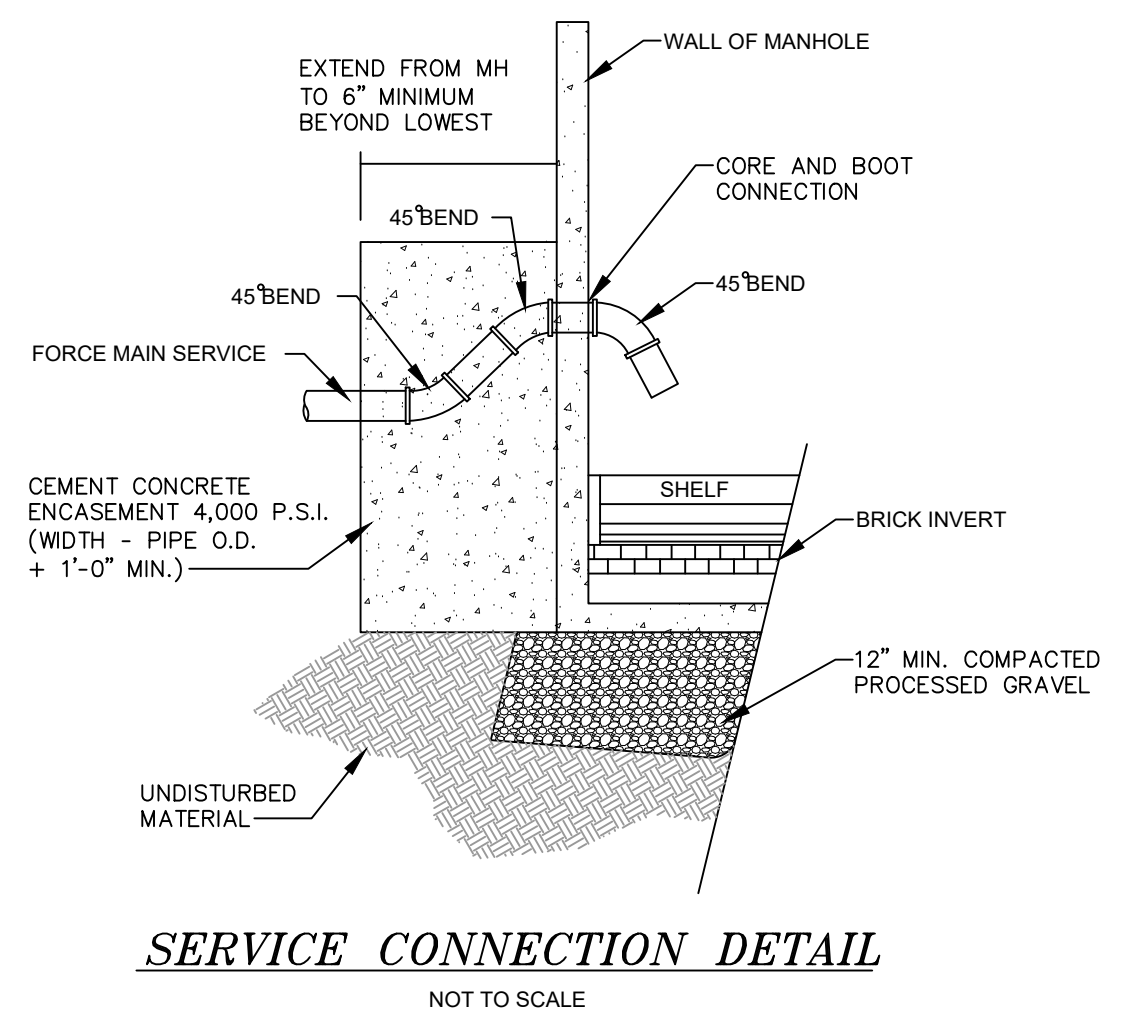
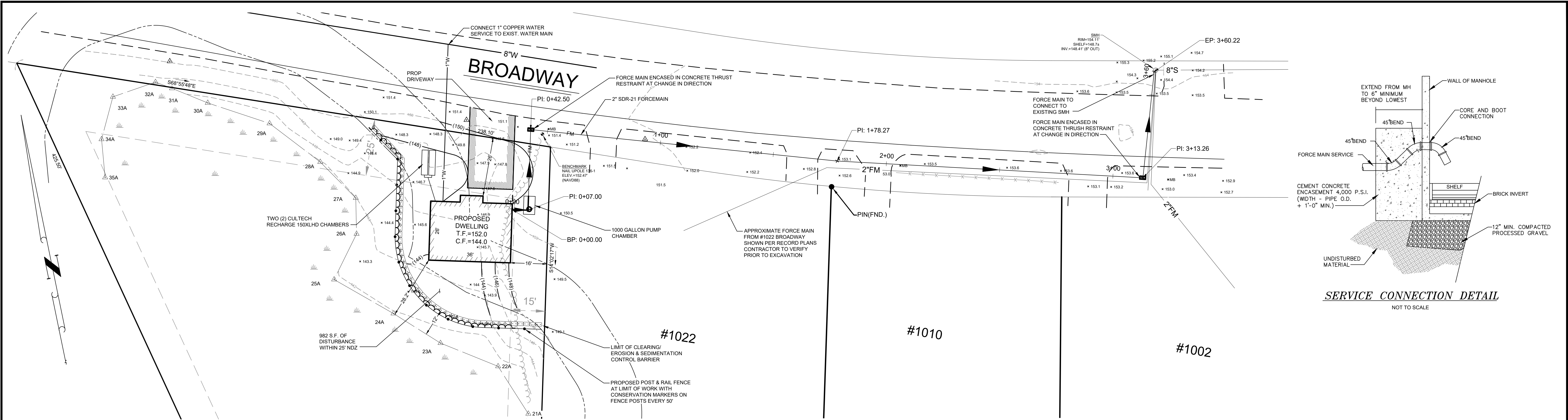




- PUMP CHAMBER DESIGN CALCULATIONS:**
- CALCULATE SYSTEM STATIC HEAD:
PROPOSED HIGH POINT ELEVATION = 149.0
PROPOSED PUMP OFF = 138.5
TOTAL STATIC HEAD = 10.85
 - PIPING = 2" SDR 21 PVC PIPE WITH RUBBER GASKET JOINTS
 - FRICTION LOSS IN PUMP CHAMBER:
TWO 3" BENDS = 10 FEET
6" MISC PIPE = 6 FEET
CHECK VALVE = 15 FEET
GATE VALVE = 15 FEET
TOTAL LOSS = 46 FEET
 - TOTAL EQUIVALENT PIPE LENGTH:
PIPE LENGTH = 345 FEET
FRICTION LOSS IN PUMP CHAMBER = 46 FEET
TWO BENDS = 20 FEET
TOTAL EQUIVALENT LENGTH = 411 FEET

PROPOSED SITE PLAN & PROFILE
0 BROADWAY (Parcel ID 539-439-7E)
HAVERHILL, MASS.

PREPARED FOR: FIVE C CONSTRUCTION
DATE: JUNE 12, 2025
SCALE: 1"= 20'

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Dennis A. Grieco
Reg. Prof. Engineer