

RDH Design Group

Landscape Architecture
Architecture
Project Management &
Engineering

14 Blackwell Avenue
Morris Township, NJ 07960
Phone: 973-715-0303
Fax: 973-490-7044
www.rdhdesigngroup.com
rdhdesigngroup@optonline.net

ISSUE

NO.	DATE	DESCRIPTION	INT.
1	3/23/21	ORIGINAL DOCUMENT	JP

REVISION

NO.	DATE	DESCRIPTION	INT.
1	5/7/21	PER 4-23-21 REVIEW LETTER	JP

**BLOCK 2502 LOT 21
SCORZAFAVA
RESIDENCE**
#356 TIMBER DRIVE
TOWNSHIP OF
BERKLEY HEIGHTS
UNION COUNTY
NEW JERSEY

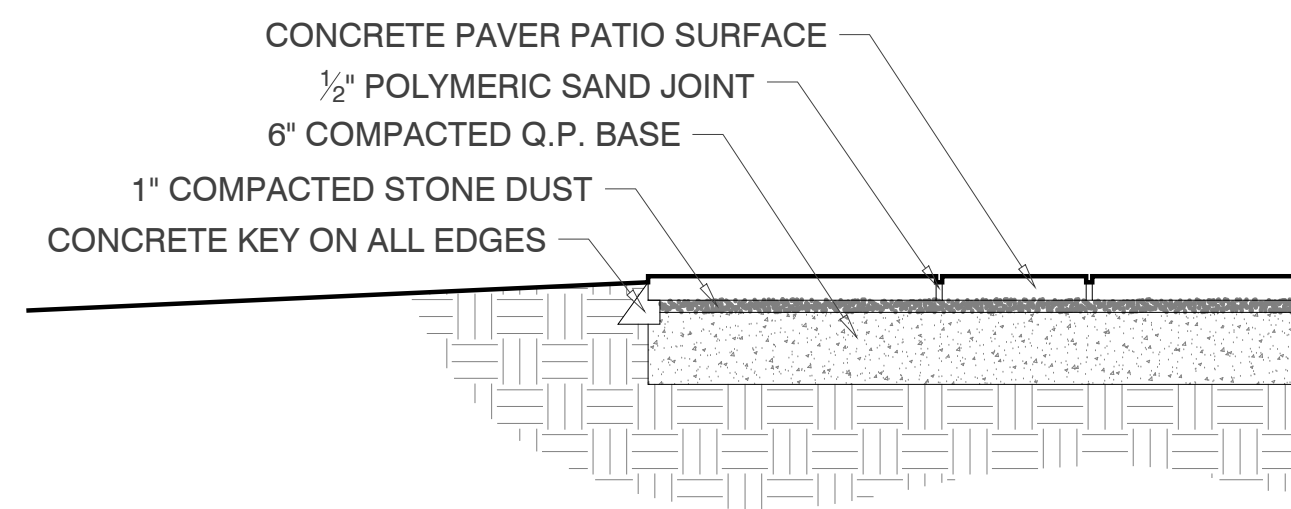
Project Number:	Scale:
AS NOTED	
Drawn By:	Approved By:
JP	RH

PROJECT DETAILS AND NOTES

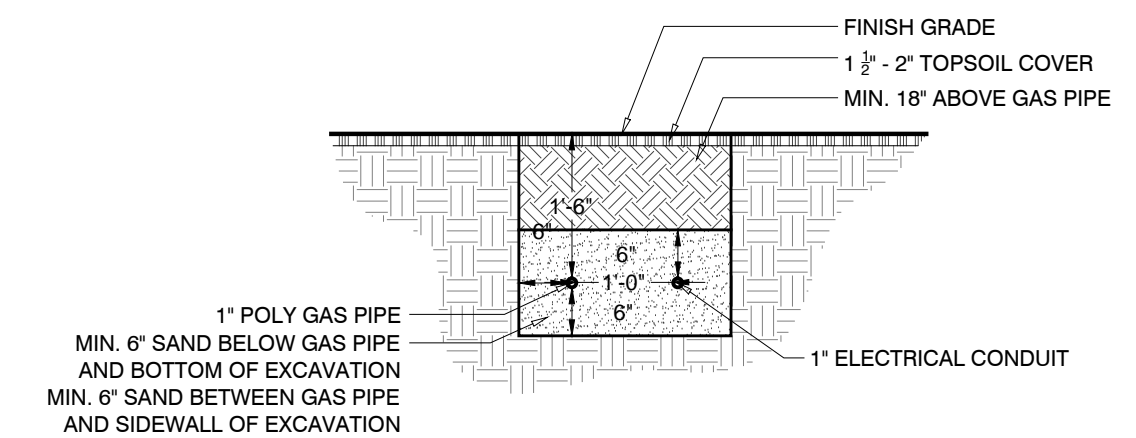
Drawing Number:

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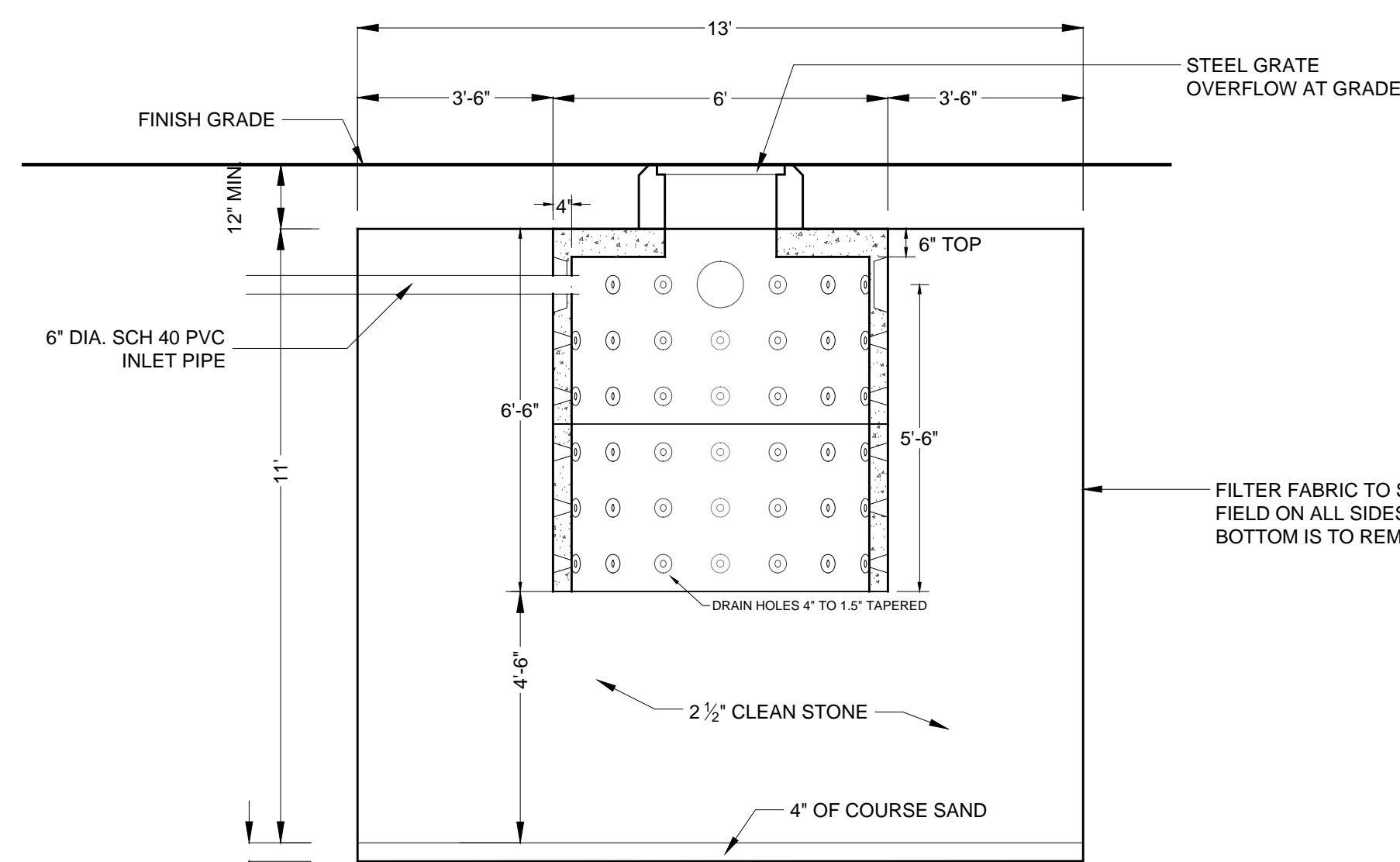
BRIAN M. HOARLE
NJ. PE. LIC. #43521



PAVER PATIO DETAIL
NO SCALE



UTILITY TRENCH DETAIL
SCALE: 1/2" = 1' - 00"



DRYWELL DETAIL
NO SCALE

DRYWELL SYSTEM STORAGE VOLUME CALCULATIONS

STORAGE VOLUME CALCULATED TO PROVIDE STORAGE FOR A 3" STORM

DRYWELL SYSTEM IS DESIGNED TO PROVIDE STORAGE FOR THE 2,650.5 SF. INCREASE OF IMPERVIOUS COVERAGE

TOTAL REQUIRED STORAGE = 662.62 FT³

DRY WELL SYSTEM TO BE COMPOSED OF A 13' WIDE x 13' LONG x 11' DEEP CLEAN STONE BED WITH 1 - 6'-0" DIAMETER x 5'-6" DEEP (BELOW OVERFLOW) PRECAST CONCRETE SEEPAGE TANK.

DISPLACEMENT VOLUME OF SEEPAGE TANKS:

$$3.14 \times R^2 \times H = 3.14 \times (3')^2 \times 6' = 169.56 \text{ FT}^3$$

STORAGE VOLUME OF SEEPAGE TANKS:

$$3.14 \times R^2 \times H = 3.14 \times (2.67')^2 \times 5.5' = 123.12 \text{ FT}^3$$

VOLUME OF STONE BED:

$$L \times W \times H = 13' \times 13' \times 11' = 1,859 \text{ FT}^3$$

STORAGE VOLUME OF STONE BED:

$$(\text{VOL. OF BED} - \text{DISP. VOL. OF TANKS}) \times 33\% \text{ VOID RATIO}$$

$$(1,859 \text{ FT}^3 - 169.56 \text{ FT}^3) \times .33 = 557.51 \text{ FT}^3$$

STORAGE VOLUME OF DRYWELL:

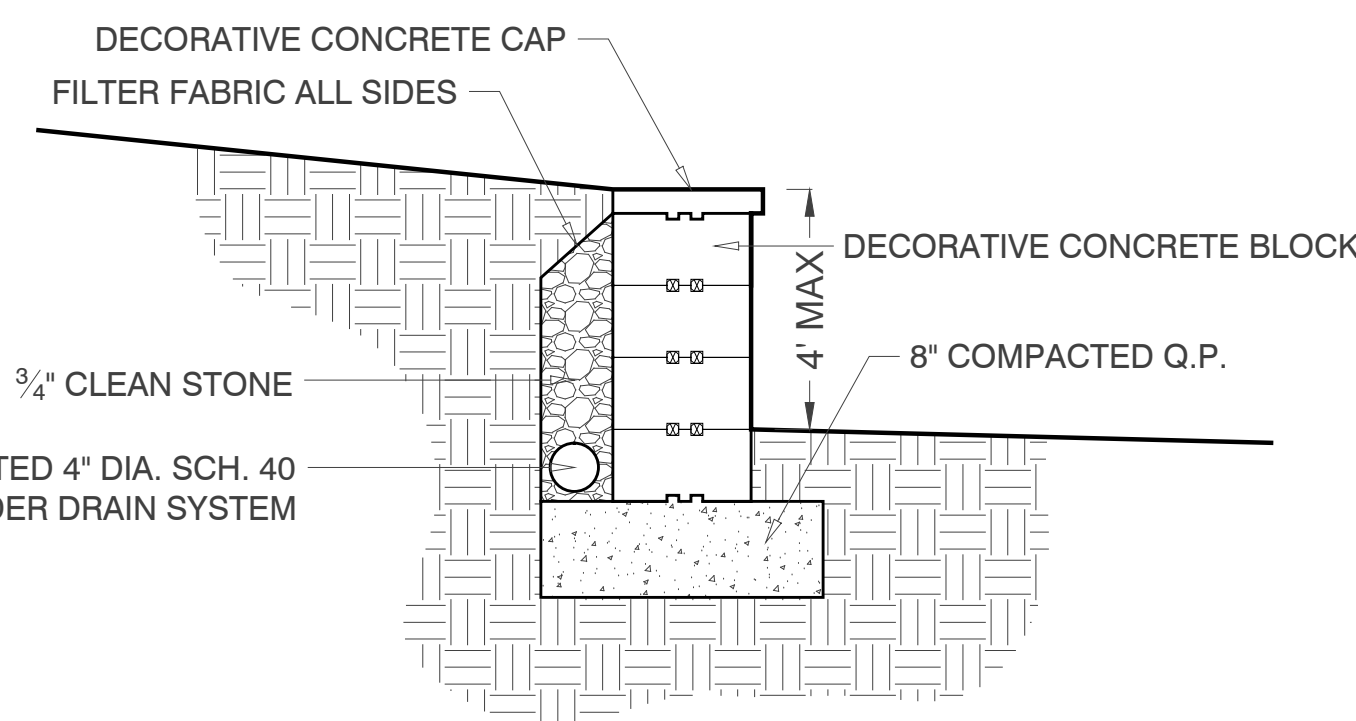
$$\text{STORAGE VOL. OF STONE BED} + \text{STORAGE VOL. OF TANKS}$$

$$557.51 \text{ FT}^3 + 123.12 \text{ FT}^3 = 680.63 \text{ FT}^3$$

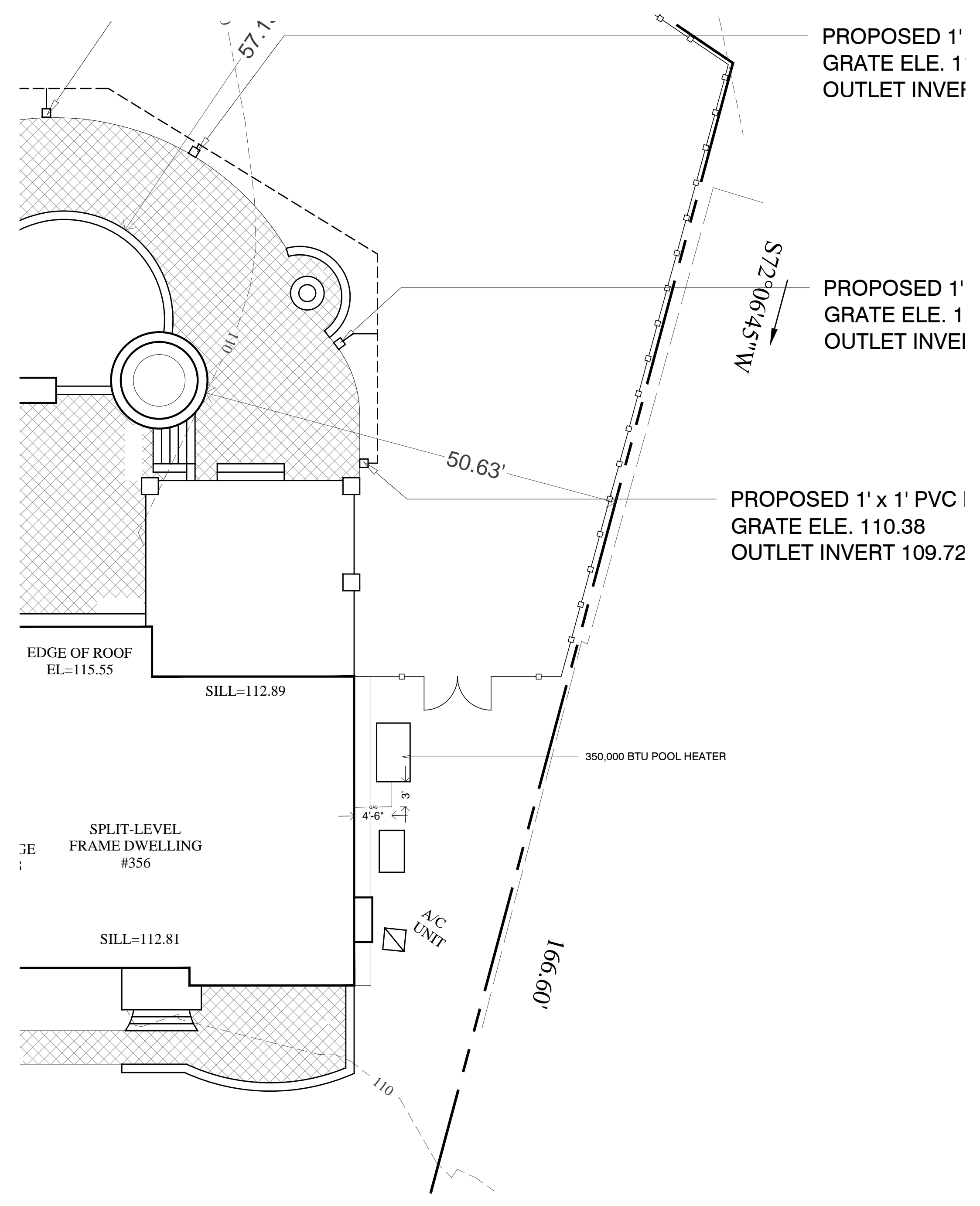
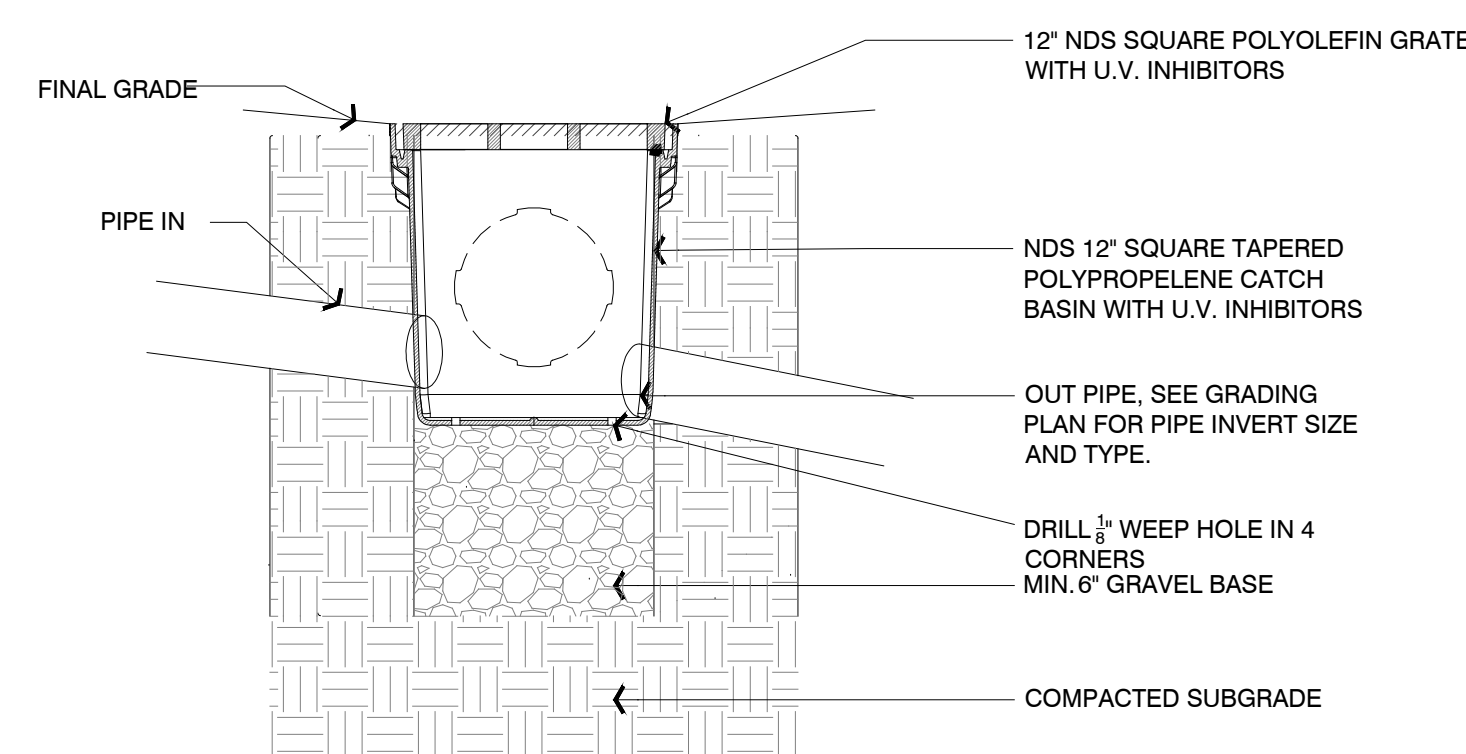
TOTAL STORAGE VOLUME REQUIRED = 662.62 FT³

TOTAL STORAGE VOLUME PROVIDED = 680.63 FT³

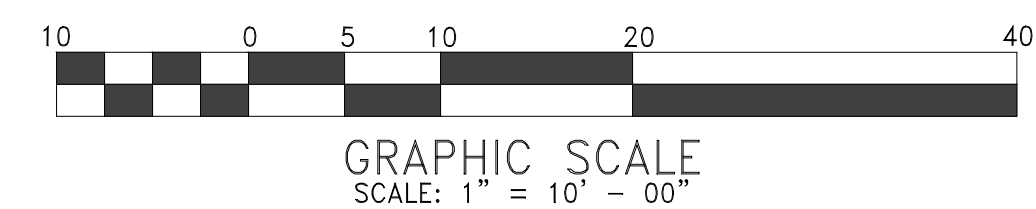
SURPLUS VOLUME 18.01 FT³



CONCRETE BLOCK WALL DETAIL
SCALE: 1/4" = 1' - 00"



GAS RISER DIAGRAM
SCALE: 1" = 10' - 00"



GRAPHIC SCALE
SCALE: 1" = 10' - 00"