

SOILS - WETTEST FIELD, HSG C
 DRAINAGE AREA SIZE = 1039 SF = 0.024 ACRE
 UNDEVELOPED SCS CURVE NO = 74.0000
 DEVELOPED SCS CURVE NO = 98.0000

1. SELECT DESIGN STORM
 100 YEAR, 24-HOUR 9.30

2. TYPE OF SUBSURFACE DISPOSAL SYSTEM:
 PRECAST DRYWELL WITH 3"-5/4" CRUSHED STONE

3. DETERMINE PERCOLATION RATE:

PERCOLATION RATE = 10000 INCHES
 DROP TIME = 100000 MINUTES

A. AREA OF PERCOLATION (AP):
 SURFACE AREA OF CYLINDER

AC = $P \times D \times H \times V$ = 10000 FOOT
 HAVG = 85000 INCHES

AB = $P \times H \times R^2$ = 2.23 FT²

AP = AC + AB = 0.7854 FT²

VP = AB * H = 3.01 FT²

SR = VP / AP / TIME = 0.0664 / 3.01 / 10 = 0.00217 FT³ / FT² / MIN.

SR = MINUS CLOSING FACTOR OF .25% = 3.13 FT³ / FT² / DAY

SR = MINUS CLOSING FACTOR OF .25% = 2.35 FT³ / FT² / DAY

4. CALCULATE REQUIRED STORAGE VOLUME:
 100YR 24 HOUR RAINFALL = 9.3000 INCHES
 LF FROM TABLE 2-1 OF TR-55

EXISTING CN = 74.0000 THEREFORE DEPTH VR = 61 INCHES
 PROPOSED CN = 98.0000 THEREFORE DEPTH VR = 91 INCHES

DELTA VR = 30 INCHES = 0.25 FT
 V5 = DELTA VR * AREA = 2598 FT³

5. CALCULATE VOLUME PER DRYWELL & STONE:
 VM = $P \times R^2 \times H$ = 10000 FEET
 THICKNESS OF STONE = 0.50 FOOT

DIAMETER OF DRYWELL = 4.0000 FEET
 HEIGHT OF DRYWELL = 4.0000 FEET

VM = $3.14 \times 3^2 \times 4$ = 1131 FT³

V5 = RECT. STONE ENV. - DRYWELL SPACE = 680 FT³

VM + V5 = 9X9X4 - $P \times 5.5^2 \times 4$ = 1811.2 FT³

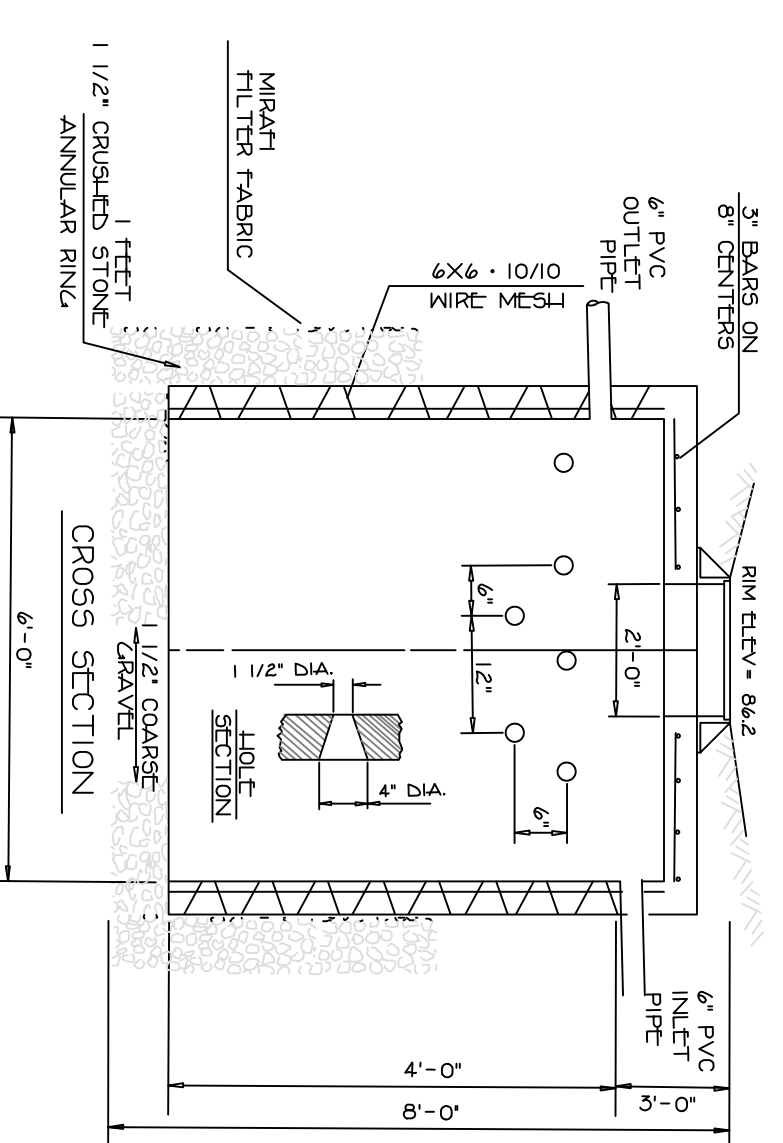
7. CALCULATE THE TOTAL 24-HOUR VOLUME PER DRYWELL (VT):
 VT = VM + V5 + VP = 1811 + 177.2 = 3588.3 FT³

8. DETERMINE NUMBER OF DRYWELLS REQUIRED (DNR):
 DNR = REQ. VOLUME OF STORAGE / TOTAL VOL. PER DRYWELL (VT)

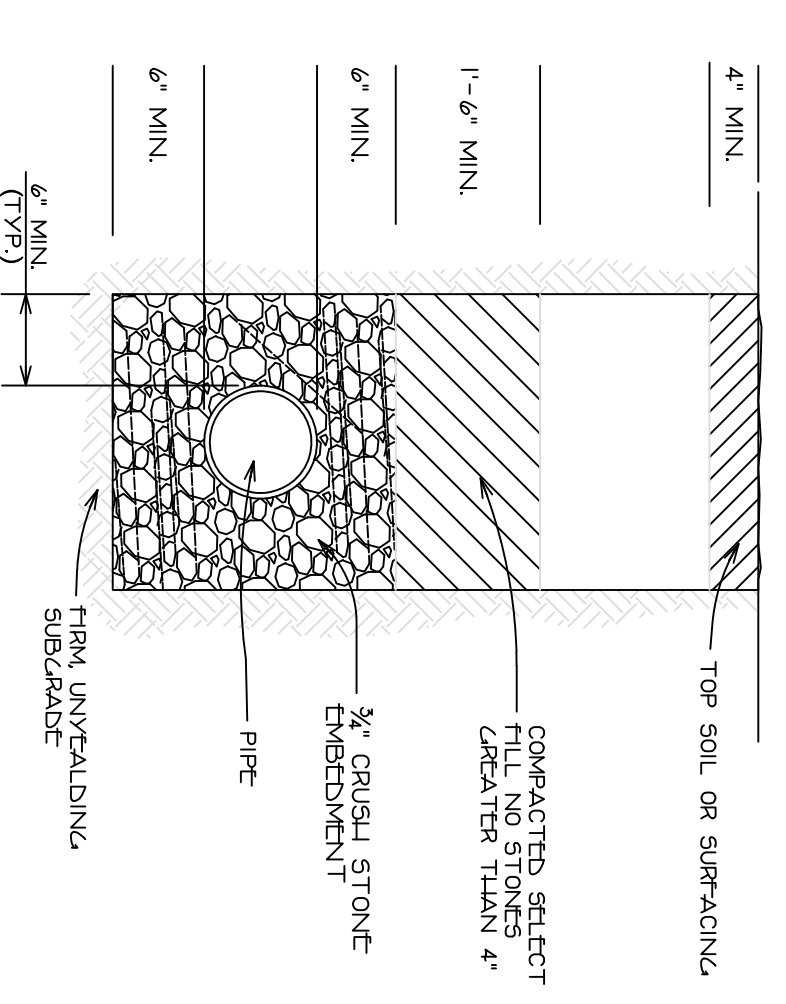
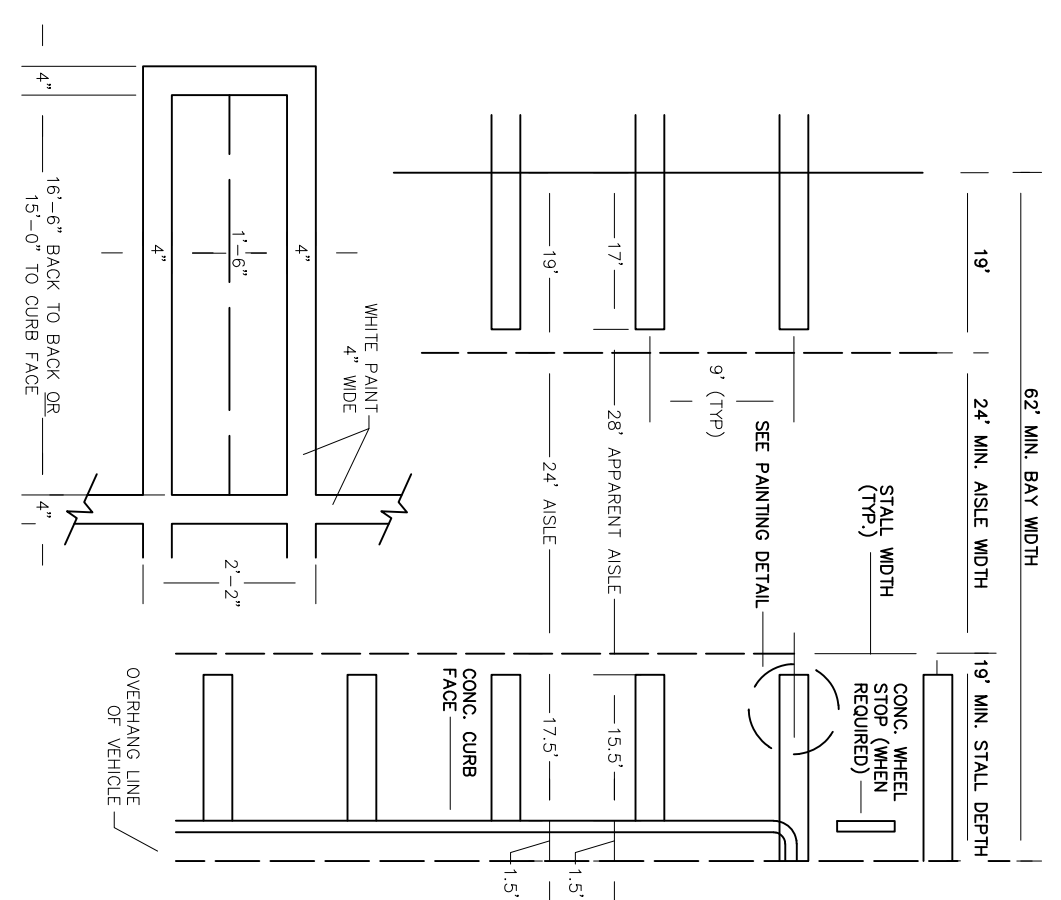
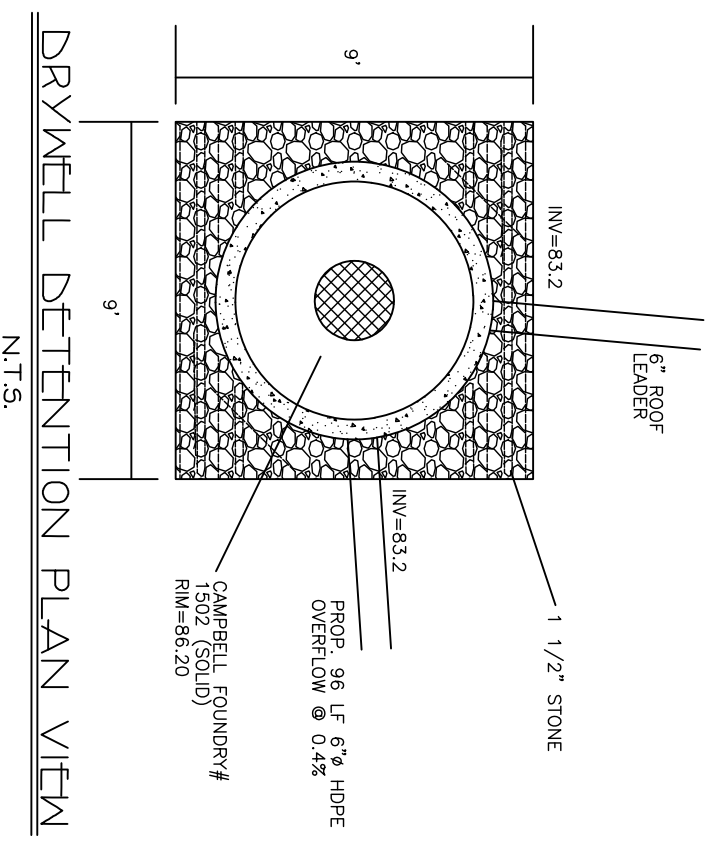
DNR = 2598 FT³ / 3588.3 FT³ = 0.73 WELLS

THE REF. USE 1 DRYWELL
 INNER DIAMETER = 6 FT
 DEPTH = 4 FT
 SURROUND WITH 9 FT X 9 FT STONE ENVELOPE

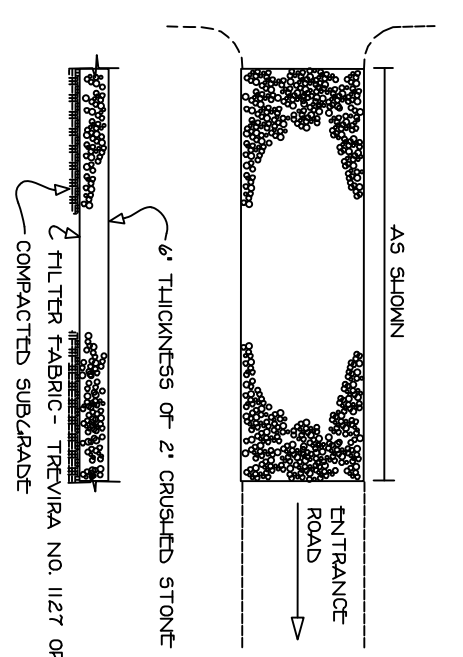
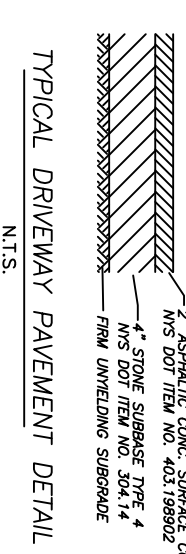
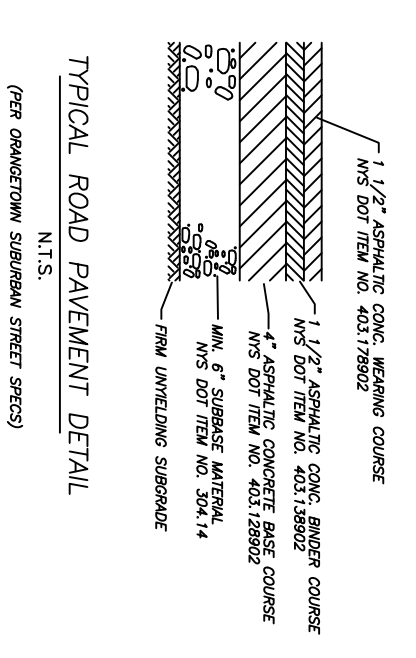
NOTE: PERCOLATION TEST REQUIRED TO VERIFY ASSUMED PERCOLATION RATE



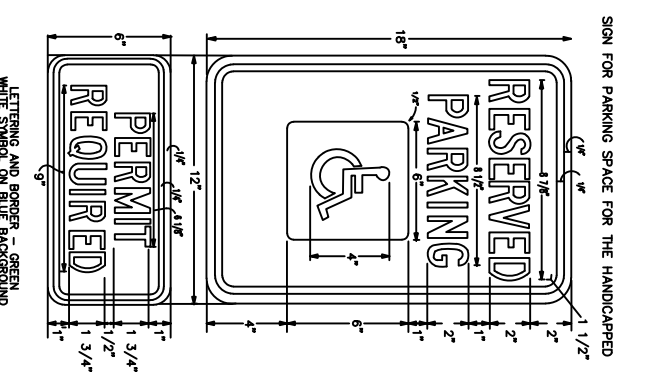
DRYWELL MAINTENANCE: PERFORMED ONCE A YEAR FOR SILT DEPOSITS. IF DEPOSIT LEVEL IS GREATER THAN 3 INCHES, THE DRYWELL SHALL BE MANUALLY ENTERED THROUGH THE TOP MANUALLY REMOVED THROUGH THE SAME CASTING AND DISCARDED APPROPRIATELY.



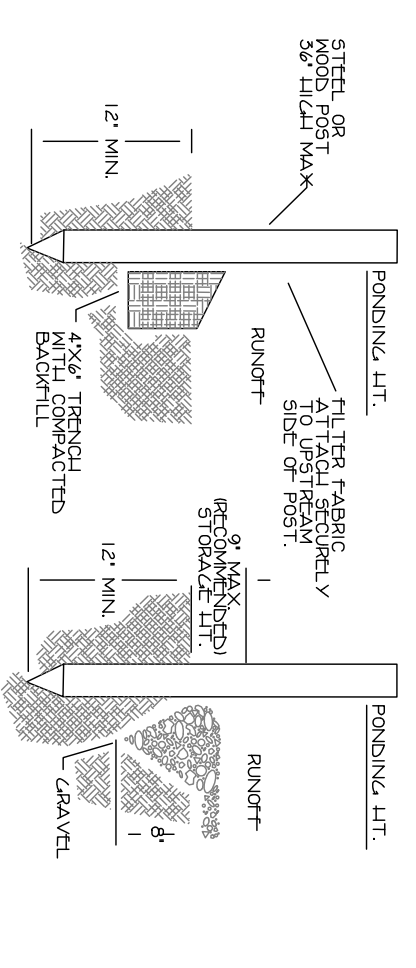
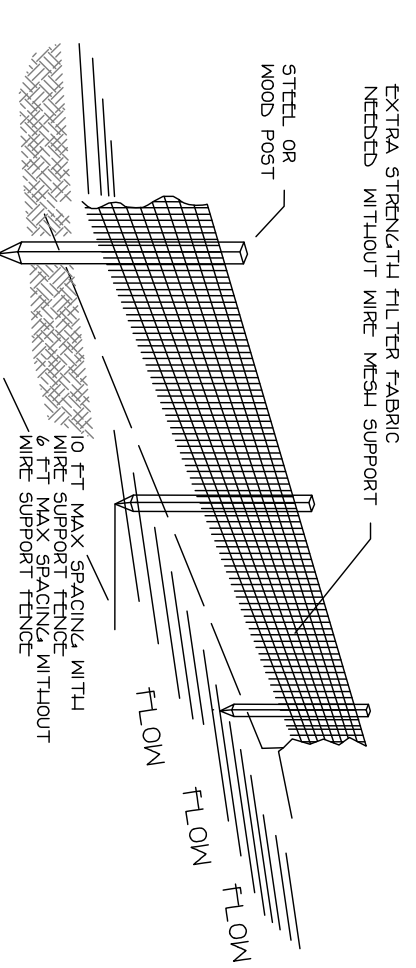
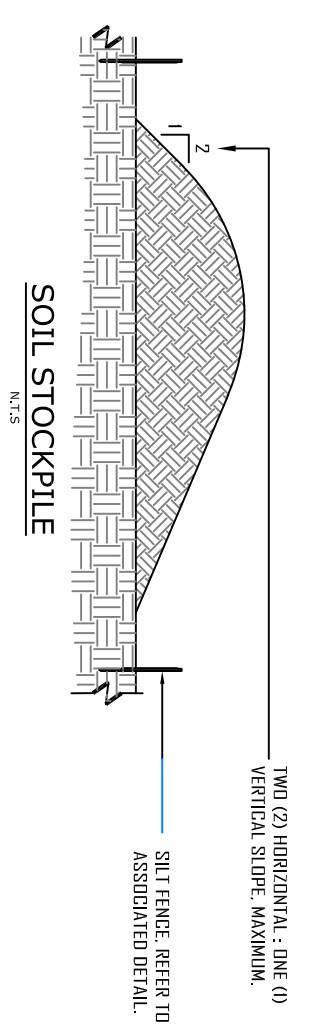
PIPE INSTALLATION TRENCH SECTIONS
 N.T.S.



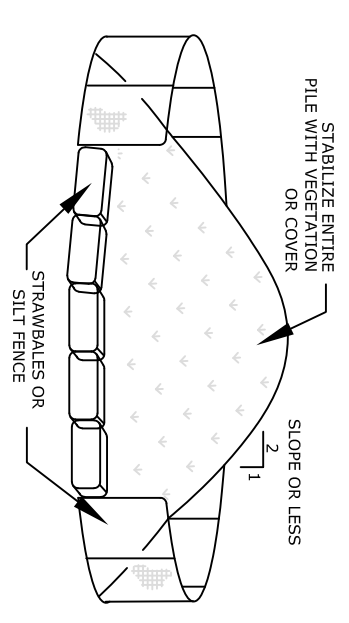
STABILIZED CONSTRUCTION ENTRANCE
 N.T.S.



HANDICAP PARKING SIGN
 N.T.S.



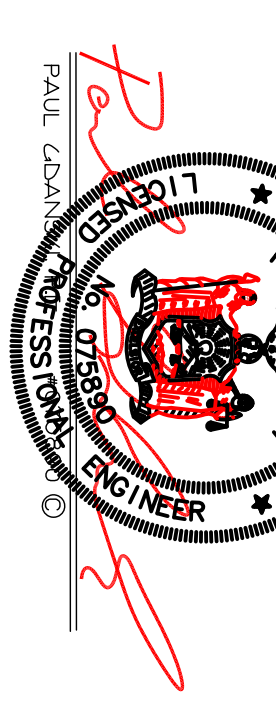
SILT FENCE
 N.T.S.



INSTALLATION NOTES:
 1. AREA CHOSEN FOR STOCKPILE OPERATIONS SHALL BE FIRM & STABLE
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2
 3. STOCKPILE SHALL BE SURROUNDED BY SILT FENCE OR SIMILAR STABILIZED WITH VEGETATION OR COVERED
 4. SEE SPECIFICATIONS (EROSION CONTROL) FOR INSTALL OF SILT FENCE

SCALE N.T.S.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW. CORRECTIONS OR ENLARGEMENTS SHALL NOT BE VALID. CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS. USE OF UNSEALED DOCUMENTS IN THIS DOCUMENT IN AN UNAUTHORIZED MANNER IS STRICTLY PROHIBITED.



DETAIL SHEET
 REVISED SITE PLAN
 FOR
 JASA 517 NORTH RT. 9W LLC
 VILLAGE OF UPPER NYACK
 ROCKLAND COUNTY, NEW YORK

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GRAPHIC SCALE 1" = 20' 1 inch = 20' ft	SCALE 1" = 20'	DATE APRIL 8, 2021	FILE # SITN1414
DWG # 2 OF 2			

1/5/23/21 REVISE PER COMMENTS