

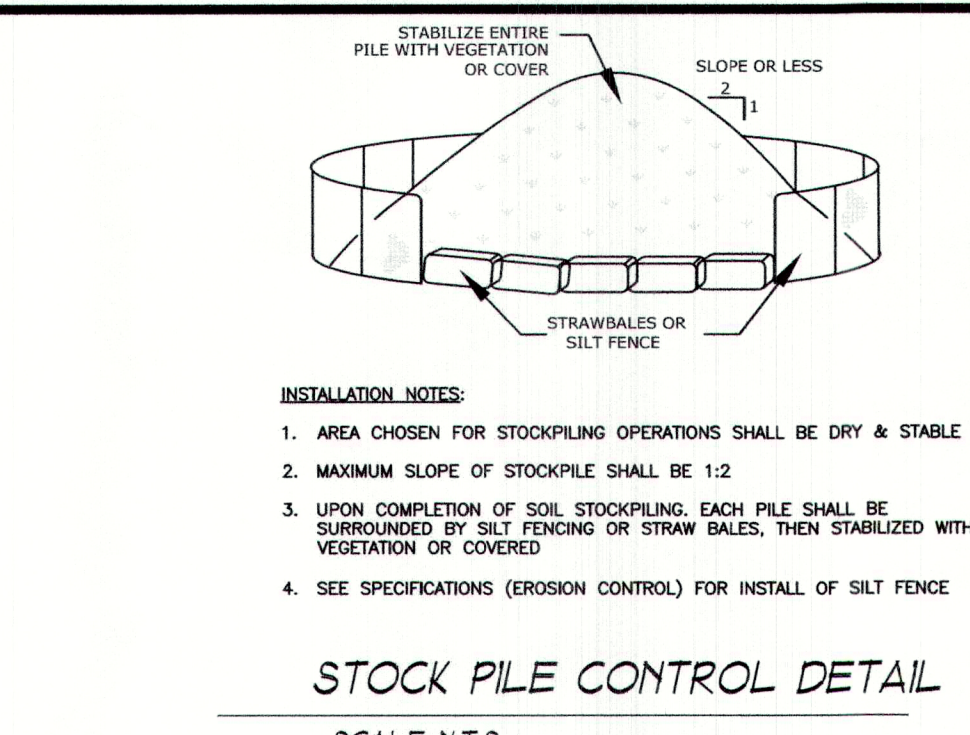
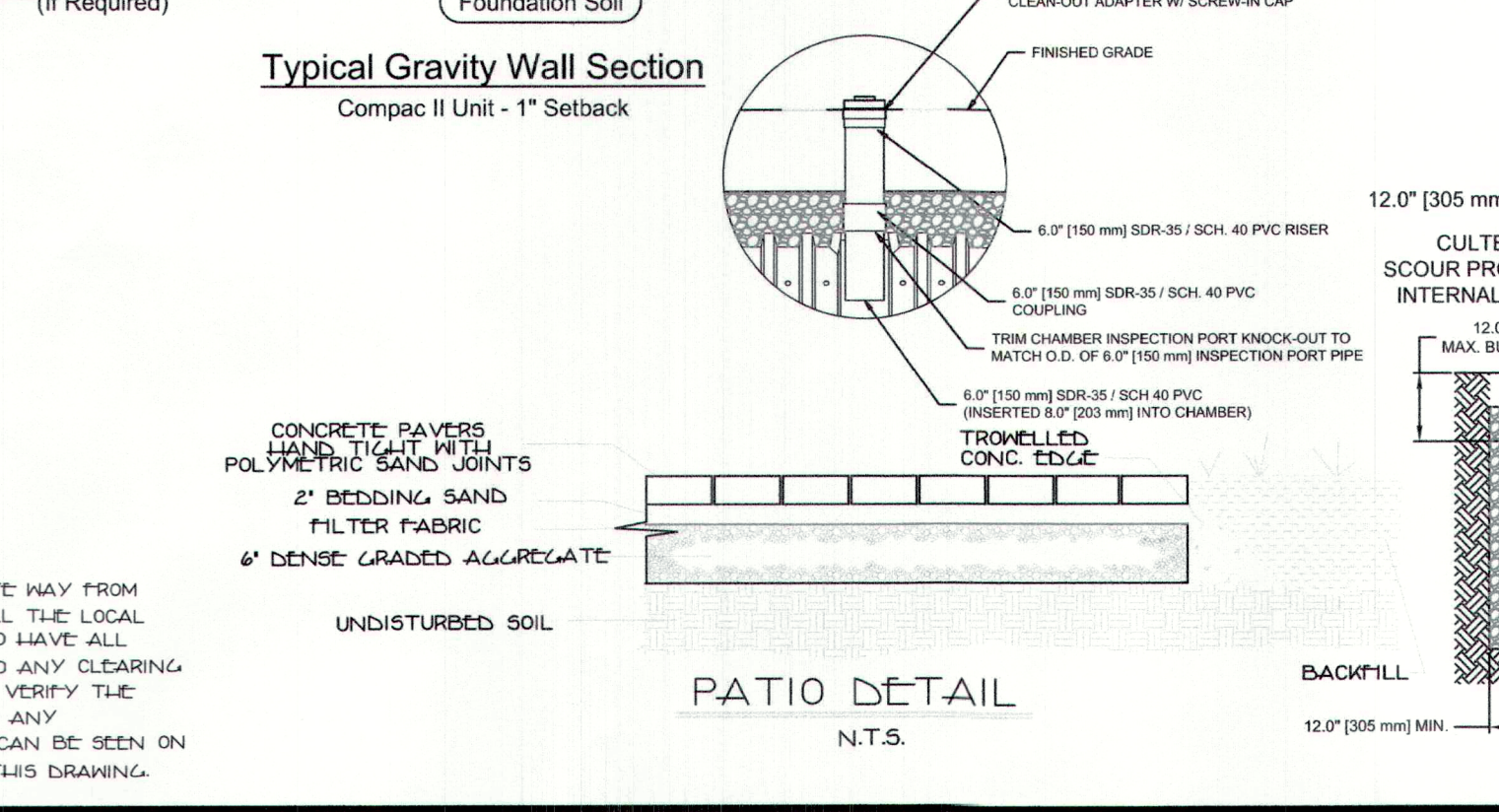
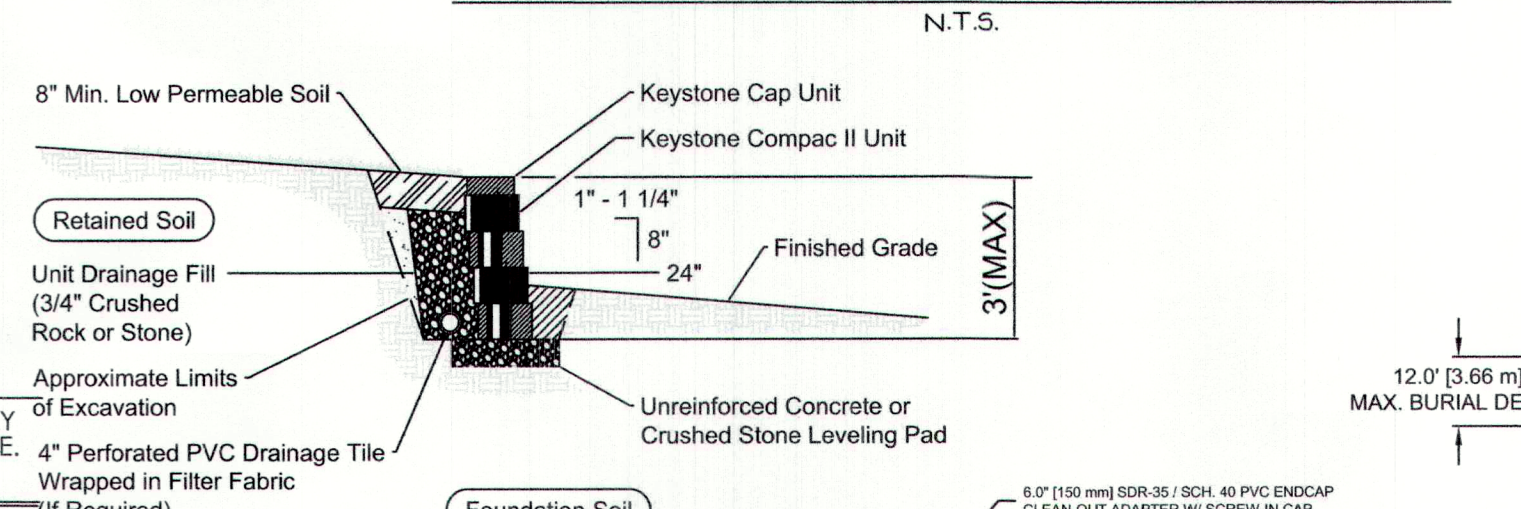
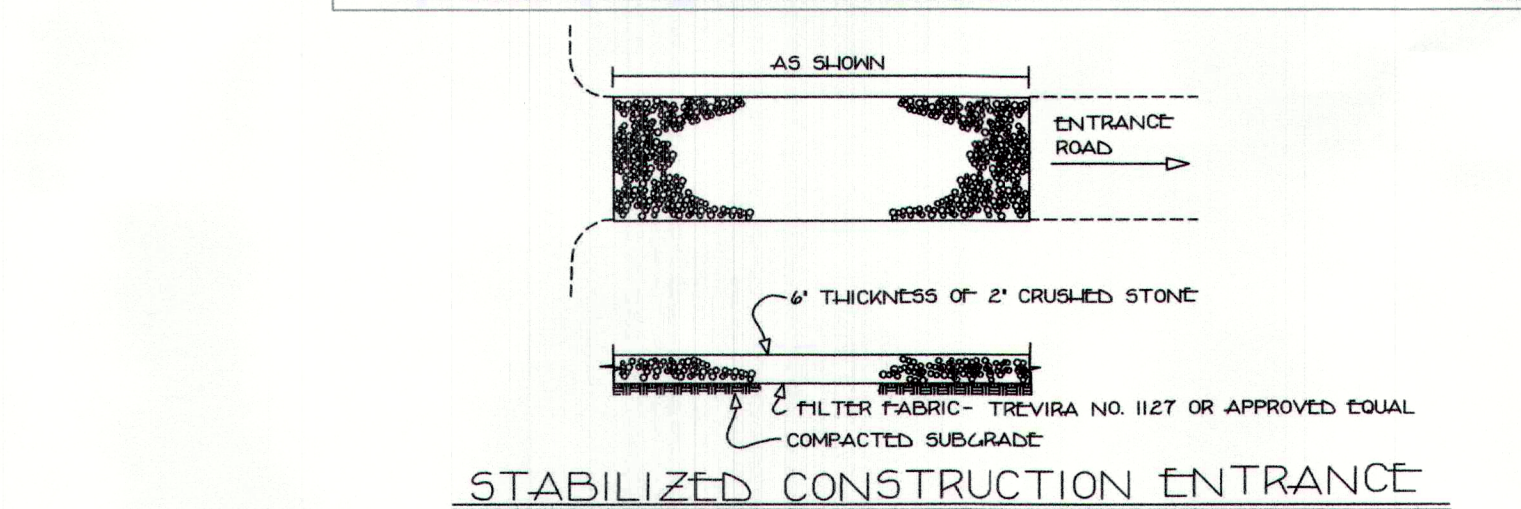
FRENCH DRAIN  
NOT TO SCALE

Recharger 330XLHD Chamber Specifications	
Height	30.5 inches
Width	52.0 inches
Length	8.50 feet
Installed Length	7.90 feet
Base Chamber Volume	52.21 cu. feet
Installed Chamber Volume	84.22 cu. feet

Breakdown of Storage Provided by Recharger 330XLHD Stormwater System	
Within Chambers	346.84 cu. feet
Within Feed Connectors	0 cu. feet
Within Stone	282.72 cu. feet
<b>Total Storage Provided</b>	<b>629.56 cu. feet</b>
<b>Total Storage Required</b>	<b>597.00 cu. feet</b>

Materials List	
Recharger 330XLHD	
Total Number of Chambers Required	6 pieces
Starter Chambers	3 pieces
Intermediate Chambers	0 pieces
End Chambers	0 pieces
H/V/F PC-24 Feed Connectors	117 pieces
CULTEC No. 410 Non-Woven Geotextile	117 sq. yards
CULTEC No. 4800 Woven Geotextile	0 feet
Stone	26 cu. yards

Bed Detail	
Number of Rows Wide	3 pieces
Number of Chambers Long	2 pieces
Chamber Row Width	15.00 feet
Chamber Row Length	15.50 feet
Bed Width	17.00 feet
Bed Length	17.50 feet
Bed Area Required	297.50 sq. feet
Length of Separator Row	N/A feet



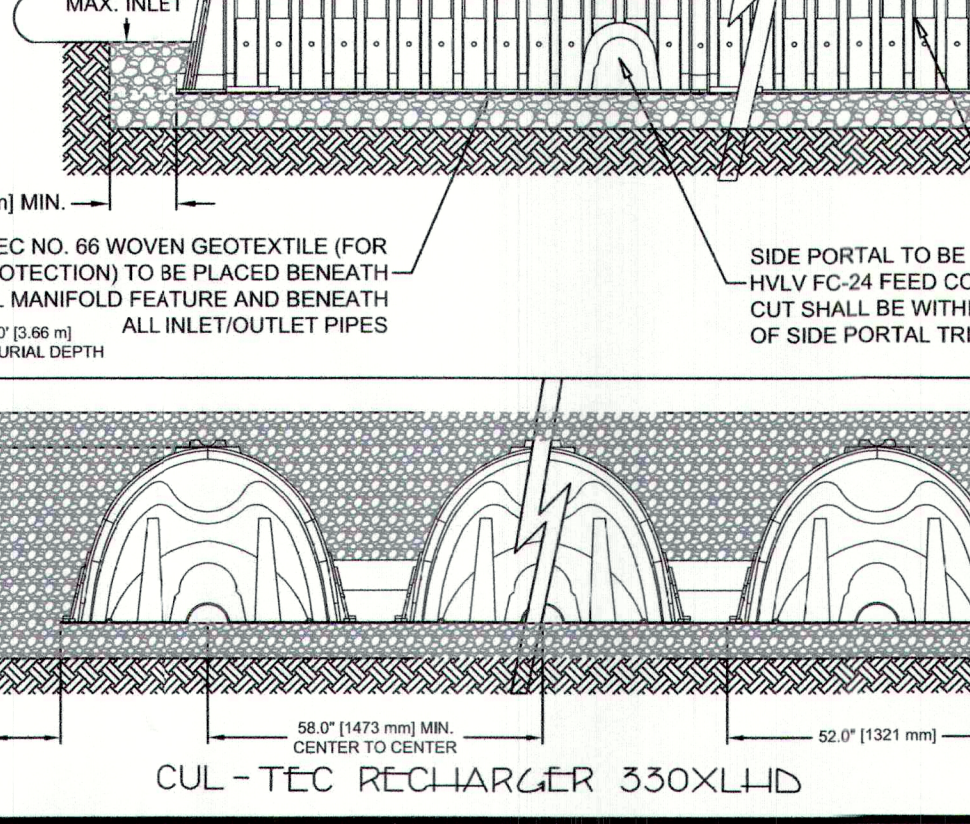
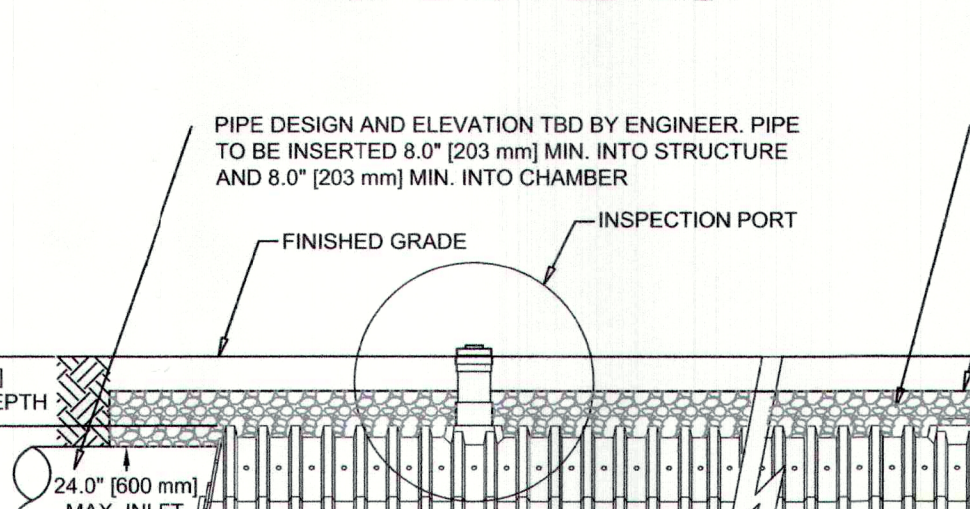
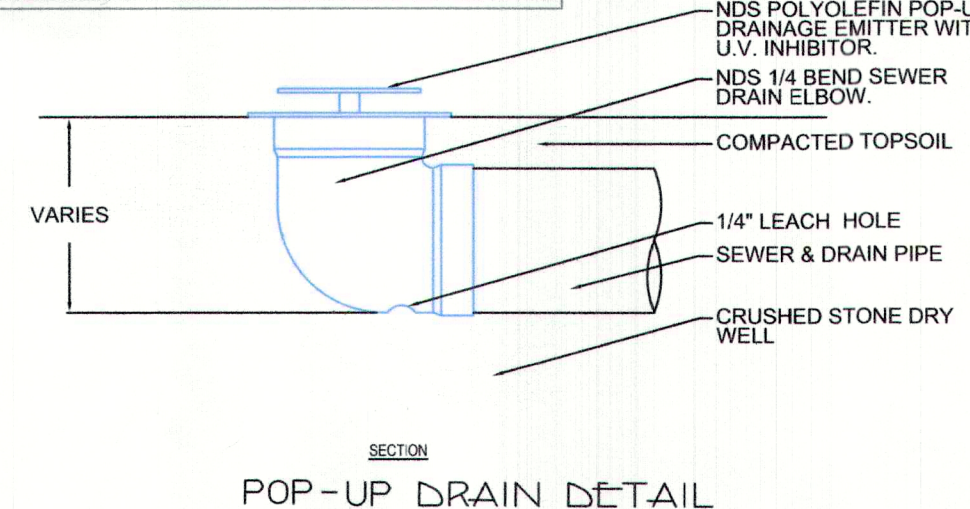
STOCK PILE CONTROL DETAIL  
SCALE N.T.S.

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**HUDSON ESSEX PASSAIC COUNTY SOIL CONSERVATION DISTRICT**  
**SOIL EROSION AND SEDIMENT CONTROL NOTES**

- All soil erosion and sediment control practices on this plan shall be constructed in accordance with the "New Jersey Standards for Soil Erosion and Sediment Control" 2nd Edition last revised July 2017, effective December 2017. These measures shall be installed prior to any major soil disturbance or in their proper sequence and maintained until permanent protection is established.
- Soil to be exposed or stockpiled for a period of greater than 14 days, and not under active construction, may be required to be temporarily mulched, and seeded or otherwise provided with vegetative cover as per Appendix A3. This temporary cover shall be maintained until such time whereby permanent revegetation is established.
- Seeding Dates: The following seeding dates are recommended to best establish permanent vegetative cover within most locations in the HEPSCD Spring - 3/15-15 and Fall - 8/15 - 10/1.
- Sediment fences are to be properly trenched and maintained until permanent vegetative cover is established.
- All storm drainage inlets shall be protected by one of the practices accepted in the Standards, and protection shall remain until permanent stabilization has been established. Storm drainage outlet points shall be protected as required before they become functional.
- Mulch materials shall be un-retted small grain straw applied at the rate of 70 to 90 pounds per 1,000 square feet and anchored with a mulch anchoring tool, liquid mulch binders, or netting tie down. Other suitable materials may be used if approved by the Soil Conservation District.
- All erosion control devices shall be periodically inspected, maintained and corrected by the contractor. Any damage incurred by erosion shall be rectified immediately.
- The Hudson Essex Passaic Soil Conservation District will be notified in writing at least 48 hours prior to any soil disturbing activities. Fax - (862) 331-4507 OR email - INFORMATION@HEPSCD.ORG
- The applicant must obtain a District issued Report of Compliance prior to applying for the Certificate of Occupancy or Temporary Certificate of Occupancy from the respective municipality, NJ - DCA or any other controlling agency. Contact the District at 862-331-4505 to request a Final Inspection, giving advanced notice upon completion of the stabilization measures. A performance deposit may be posted with the District when winter weather or snow cover prohibits the proper application of seed, mulch, fertilizer or hydro-seed.
- Paved roadways must be kept clean at all times. Do not utilize a fire or garden hose to clean roads unless the runoff is directed to a properly designed and functioning sediment basin. Water pumped out of the excavated area contains sediments that must be removed prior to discharging to receiving bodies of water using removable pumping stations, sump pits, portable sedimentation tanks and/or silt control bags.
- All surfaces having lawn or landscaping at final cover are to be provided topsoil prior to re-seeding, sodding or planting. A depth of 5.0 inches, firm in place, is required, as per the Standards for Topsoiling and Land Grading, effective December 2017.
- All plan revisions must be submitted to the District for proper review and approval.
- A crushed stone wheel cleaning truck-pad is to be installed at all site exits using 2 1/2 - 1" crushed angular stone (ASTM 2 or 3) to a minimum length of 50 feet and minimum depth of 6". All driveways must be provided with crushed stone until paving is complete.
- Slope steepness incurring disturbance may require additional stabilization measures. These "special" measures shall be designed by the applicant's engineer and approved by the Soil Conservation District.
- The Hudson Essex Passaic Soil Conservation District shall be notified, in writing, for the sale of any portion of the project or for the sale of individual lots. New owners' information shall be provided. Additional measures deemed necessary by District officials shall be implemented as conditions precedent.

**SOIL COMPACTION EXEMPTION NOTE**  
AS DETERMINED BY THE STATE POLICY MAP, THE PROJECT AREA FALLS WITHIN THE METROPOLITAN PLANNING AREA (MPA) UNDER EXISTING CONDITIONS. THE SITE IS NOT COVERED IN WOODY VEGETATION NOR REGROWTH. IN ACCORDANCE WITH NEW JERSEY STANDARD FOR LAND GRADING (REVISED 2010), NEW WOODY VEGETATED PAI AREAS FALL UNDER THE SOIL COMPACTION EXEMPTION LIST AS A "URBAN REDEVELOPMENT" AND IS DEFINED AS "PREVIOUSLY DEVELOPED".

**CONSTRUCTION SEQUENCE (SITEWORK)**

- CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE.
- CONSTRUCT EROSION CONTROL DEVICES.
- CLEAR SITE WITHIN LIMIT OF DISTURBANCE, STRIP AND STOCKPILE TOPSOIL AND GRADE SITE.
- EXCAVATE FOR POOL & DETENTION.
- CONSTRUCT POOL AND APURTAINANCES.
- CONSTRUCT PATIO AND DETENTION.
- AFTER CONSTRUCTION IS COMPLETE, PERFORM FINAL GRADING, SPREAD TOPSOIL AND INSTALL LANDSCAPING.
- RE-ESTABLISH EXISTING SWALE.
- REMOVE SOIL EROSION CONTROL DEVICES WHEN ALL DISTURBED AREAS HAVE BEEN INSTALLED.

**DURATION:**

PROPOSED POOL & PATIO = 8108 SF - 4422 SF = 3,686 SF (0.886 SF/2.0" RAINFALL/1/12" = 614.3 CF	1 DAY
PROP. POOL = 1,242 SF	1 DAY
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**SOIL MOVEMENT CALCULATIONS:**

FILL BY WALL = 3,000 SF X 1.0 FT AVG = 3,000 CF FILL  
POOL = 1,242 SF X 3.0 FT AVG = 3,726 CF CUT  
PATIO/EQ PAD = 2,444 SF X 1.0 FT AVG = 2,444 CF CUT  
CULTEC = 17'X17.5'X4.5' = 1,338.75 CF CUT

**NET EXPORT FROM SITE = 4,508.75 CF = 167.0 CY**

**TOTAL SOIL MOVEMENT = 10,508.75 CF = 389.2 CY**

**NOTES:**

1. THERE ARE 0 TREES TO BE REMOVED.
2. STORMWATER DESIGN CALCULATIONS PROVIDES STORAGE CAPACITY FOR A TWO INCH PER HOUR RAINFALL OVER ALL IMPERVIOUS AREAS.
3. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. ELEVATIONS SHOWN HEREON ARE BASED ON AN ASSUMED DATUM.
5. EXISTING DRAINAGE PATTERNS MUST BE MAINTAINED DURING & AFTER CONSTRUCTION TO ENSURE NO IMPACTS TO OTHER RESIDENTS.
6. CULTEC INSTALLATION MUST BE INSPECTED PRIOR TO BACKFILL. GROUNDWATER ELEVATION MUST BE DETERMINED PRIOR TO INSTALLATION. MUST BE 10' FROM PL.
7. SWALES SHALL BE EXTENDED AS NECESSARY TO DRAIN ALL RUN-OFF TO THE REAR OF THE PROPERTY, AND NOT ON ADJACENT LOTS.
8. ALL PIPE TO BE HOPE. ALL AREAS ADJACENT TO PATIO MUST BE DIRECTED TO REAR DRAIN.
9. ALL PATIO AND COVERED PATIO MUST DRAIN TO DRAINAGE SYSTEM.
10. ALL EXCAVATED MATERIAL IS TO BE REMOVED FROM SITE UNLESS DISCUSSED WITH BOROUGH ENGINEER PRIOR TO FINAL GRADING.
11. REMOVED
12. NO RUN-OFF FROM THIS PROPERTY SHALL AFFECT ANY ADJACENT PROPERTIES BOTH DURING & SUBSEQUENT TO CONSTRUCTION. IN THE EVENT A DRAINAGE DETENTION POND IS REQUIRED, THE APPLICANT SHALL REMEDY THE MATTER AT HIS/HER COST.
13. ANY SOIL TRACKED ONTO THE STREET MUST BE IMMEDIATELY REMOVED. IF TRACKED SOIL REMAINS OVERNIGHT, THE DPW SHALL REMOVE IT AND ASSESS THE APPLICANT FOR THOSE COSTS.
14. ANY ROADWAY CURBING OR STORM INLETS ALONG THE PROPERTY FRONTAGE DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE APPLICANT TO THE SATISFACTION OF THE BOROUGH'S CONSTRUCTION AND ENGINEERING DEPARTMENTS.
15. NO TREES TO REMAIN ARE WITHIN THE LIMIT OF DISTURBANCE.
16. AN INSPECTION OF ALL SOIL EROSION CONTROL MEASURES INCLUSIVE OF SILT FENCING, TREE PROTECTION FENCING, STABILIZED CONSTRUCTION ACCESS, ETC. PRIOR TO THE START OF CONSTRUCTION IS REQUIRED.
17. 48 HOURS NOTICE IS NEEDED FOR INSPECTION OF THE DRAINAGE IMPROVEMENTS BY THE ENGINEERING DEPARTMENT.
18. MAINTENANCE OF ON-SITE STORMWATER INFILTRATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER & SHALL TRANSFER TO AN FUTURE OWNER.
19. A CONSTRUCTION EASEMENT, DEED RESTRICTION, OR OTHER APPLICABLE LEGAL MEASURE SHALL BE DONE PRIOR TO BE COMPLETION FOR THE STORMWATER MANAGEMENT FEATURE.
20. ALL DISTURBED AREAS ARE TO BE STABILIZED WITH TOPSOIL, SEED, HAY AND STRAW TO PREVENT SOIL EROSION.
21. ALL IMPORTED TOPSOIL SHALL NOT BE INFERIOR QUALITY TO THE ORIGINAL SOIL. SOILS MUST MEET NJPDES RESIDENTIAL STANDARDS. CERTIFICATION SHALL BE PROVIDED FOR ANY IMPORTED SOILS.
22. THE APPLICANT SHALL ENSURE THAT STORMWATER RUNOFF DOES NOT NEGATIVELY AFFECT NEIGHBORING PROPERTIES, DURING AND AFTER CONSTRUCTION. ANY NEGATIVE IMPACTS TO ADJACENT PROPERTIES CAUSED BY AN INCREASE IN RUNOFF FROM IMPROVED DRAINAGE SHALL BE ADDRESSED BY THE APPLICANT AT NO COST TO THE AFFECTED PROPERTY OWNERS.
23. ADDITIONAL ANY DAMAGES INCURRED TO SURROUNDING PUBLIC OR PRIVATE PROPERTY AS A RESULT OF CONSTRUCTION SHALL BE REPAIRED BY THE APPLICANT AT NO COST TO THE AFFECTED PROPERTY OWNERS.

**KEY MAP (NOT TO SCALE)**

**ZONING NOTES**

ZONE: A-3

	PERMITTED	EXISTING	PROPOSED
MIN. LOT AREA (SF)	8,400	16,735	16,735
MIN. LOT WIDTH (FT)	70.0	60.0*	60.0*
MIN. FRONT YARD (FT.)	30.0	31.1	31.1
MIN. REAR YARD (FT.)	30.0	94.6	94.6
MIN. SIDE YARD (EACH) (FT.)	8.0	9.0	9.0
MIN. SIDE YARD SUM (BOTH) (FT.)	18	19.7	19.7
MAX. BLDG HEIGHT (FT)	2.5/35.0	NA	NA
MAX. LOT COVERAGE (%)	20.0	15.5	15.5
MAX. IMPROVED LOT COVERAGE (%)	35.0	26.4(4422)	48.5(8108)**
MAX. ACCESSORY STRUCTURE COVERAGE (%)	15.0	1.0(157)	8.4(1,399)
MIN. SIDE YARD (POOL)	10.0	NA	10.0
MIN. REAR YARD (POOL)	10.0	62.4	62.4
MIN. DIST. TO PRINCIPAL STRUC.	10.0	NA	94.7
MIN. SIDE YARD (PATIO)	5.0	NA	1.2**
MIN. REAR YARD (PATIO)	5.0	NA	51.4

\* EXISTING CONDITION  
\*\* VARIANCE REQUIRED

**LOT COVERAGE CALCULATIONS**

DWELLING & COV. PORCH = 2,439 SF  
GAZEBO = 157 SF  
TOTAL = 2,596 SF  
2,596 SF / 16,735 SF = 15.5%

**IMPROVED LOT COVERAGE**

LOT COVERAGE = 2,596 SF  
DRIVEWAY & WALKWAY = 89 SF  
RAISED PATIO = 823 SF  
TOTAL = 3,508 SF  
3,508 SF / 16,735 SF = 20.9%

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**SILVERBERG**  
LOCATED IN THE  
TOWNSHIP OF VERONA  
ESSEX COUNTY, NEW JERSEY  
LOT 13.02, BLOCK 1306

**PAUL GDANSKI, P.E., PLLC**  
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NJ LIC. #41161

58 DURELL  
5/28/23  
1"=20'  
1 OF 1