



TOWN OF NORTH CASTLE

WESTCHESTER COUNTY
17 Bedford Road
Armonk, New York 10504-1898

RESIDENTIAL PROJECT
REVIEW COMMITTEE
Adam R. Kaufman AICP, Chair

Telephone: (914) 273-3000 x 43
Fax: (914) 273-3554
www.nortcastleny.com

RESIDENTIAL PROJECT REVIEW COMMITTEE (RPRC) APPLICATION

Section I- PROJECT

ADDRESS: 49 Sarles St Armonk NY 10504

Section III- DESCRIPTION OF WORK:

Proposed 800 sf 20' x 40' in-ground concrete pool at rear of existing single-family dwelling concrete spa 64 SF. Deck area 2000 SF

Section III- CONTACT INFORMATION:

APPLICANT: John Scavelli, PE

ADDRESS: 361 Route 202, Suite 7, Somers NY 10589

PHONE: 914-330-7712 MOBILE: _____ EMAIL: john@resreal.com

PROPERTY OWNER: Craig Rosenman

ADDRESS: 49 Sarles St Armonk NY 10504

PHONE: 917-681-0246 MOBILE: _____ EMAIL: crosenman@gmail.com

PROFESSIONAL: John Scavelli, PE

ADDRESS: 361 Route 202, Suite 7, Somers NY 10589

PHONE: 914-330-7712 MOBILE: _____

EMAIL: john@resreal.com

Section IV- PROPERTY INFORMATION:

Zone: R-2A Tax ID (lot designation) 94.03-1-7



TOWN OF NORTH CASTLE
 WESTCHESTER COUNTY
 17 Bedford Road
 Armonk, New York 10504-1898

PLANNING DEPARTMENT
 Adam R. Kaufman, AICP
 Director of Planning

Telephone: (914) 273-3542
 Fax: (914) 273-3554
 www.northcastleny.com

GROSS LAND COVERAGE CALCULATIONS WORKSHEET

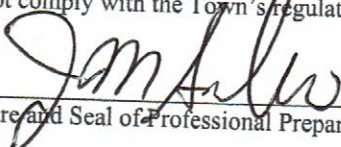
Application Name or Identifying Title: 49 Sarles Street Armonk Date: 8/12/2021

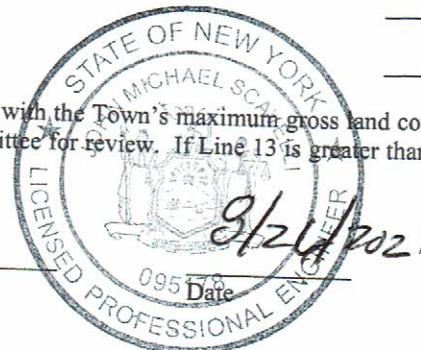
Tax Map Designation or Proposed Lot No.: 94.03-1-7

Gross Lot Coverage

- | | | |
|-----|--|----------------|
| 1. | Total lot Area (Net Lot Area for Lots Created After 12/13/06): | <u>282,726</u> |
| 2. | Maximum permitted gross land coverage (per Section 213-22.2C): | <u>27,938</u> |
| 3. | BONUS maximum gross land cover (per Section 213-22.2C): | |
| | Distance principal home is beyond minimum front yard setback
<u>59.2</u> x 10 = | <u>592</u> |
| 4. | TOTAL Maximum Permitted gross land coverage = Sum of lines 2 and 3 | <u>28,530</u> |
| 5. | Amount of lot area covered by principal building:
<u>5,723</u> existing + <u>0</u> proposed = | <u>5,723</u> |
| 6. | Amount of lot area covered by accessory buildings:
<u>0</u> existing + <u>0</u> proposed = | <u>0</u> |
| 7. | Amount of lot area covered by decks:
<u>0</u> existing + <u>0</u> proposed = | <u>0</u> |
| 8. | Amount of lot area covered by porches:
<u>0</u> existing + <u>0</u> proposed = | <u>0</u> |
| 9. | Amount of lot area covered by driveway, parking areas and walkways:
<u>8,106</u> existing + <u>0</u> proposed = | <u>8,106</u> |
| 10. | Amount of lot area covered by terraces:
<u>1,705</u> existing + <u>3,677</u> proposed = | <u>5,382</u> |
| 11. | Amount of lot area covered by tennis court, pool and mechanical equip:
<u>40</u> existing + <u>1,356</u> proposed = | <u>1,396</u> |
| 12. | Amount of lot area covered by all other structures:
<u>660</u> existing + <u>0</u> proposed = | <u>660</u> |
| 13. | Proposed gross land coverage: Total of Lines 5 - 12 = | <u>21,267</u> |

If Line 13 is less than or equal to Line 4, your proposal complies with the Town's maximum gross land coverage regulations and the project may proceed to the Residential Project Review Committee for review. If Line 13 is greater than Line 4 your proposal does not comply with the Town's regulations.


 Signature and Seal of Professional Preparing Worksheet





Town of North Castle
Residential Project Review Committee
17 Bedford Road Armonk, New York 10504
(914) 273-3542 (914) 273-3554 (fax)

RPRC COMPLETENESS REVIEW FORM

This form represents the standard requirements for a completeness review for all Residential Project Review Committee submissions. Failure to provide all of the information requested will result in a determination that the application is incomplete.

Project Name on Plan: Craig Rosenman

Initial Submittal Revised Preliminary

Street Location: 49 Sarles St Armonk 10504

Zoning District: R2A Property Acreage: 6.5 Tax Map Parcel ID: 94.03-1-7

Date: 49 Sarles St Armonk 10504

DEPARTMENTAL USE ONLY

Date Filed: _____ Staff Name: _____

Preliminary Plan Completeness Review Checklist

Items marked with a are complete, items left blank are incomplete and must be completed, "NA" means not applicable.

1. Plan prepared by a registered architect or professional engineer
2. Aerial photo (Google Earth) showing the applicant's entire property and adjacent properties and streets
3. Map showing the applicant's entire property and adjacent properties and streets
4. A locator map at a convenient scale
5. The proposed location, use and design of all buildings and structures
6. Existing topography and proposed grade elevations
7. Location of drives
8. Location of all existing and proposed site improvements, including drains, culverts, retaining walls and fences

RPRC COMPLETENESS REVIEW FORM

Page 2

- 9. Description of method of water supply and sewage disposal and location of such facilities
- 10. The name and address of the applicant, property owner(s) if other than the applicant and of the planner, engineer, architect, surveyor and/or other professionals engaged to work
- 11. Submission of a Zoning Conformance Table depicting the plan's compliance with the minimum requirements of the Zoning District
- 12. If a tree removal permit is being sought, submission of a plan depicting the location and graphical removal status of all Town-regulated trees within the proposed area of disturbance. In addition, the tree plan shall be accompanied by a tree inventory includes a unique ID number, the species, size, health condition and removal status of each tree.
- 13. If a wetlands permit is being sought, identification of the wetland and the 100-foot wetland buffer.

More information about the items required herein can be obtained from the North Castle Planning Department. A copy of the Town Code can be obtained from Town Clerk or on the North Castle homepage: <http://www.northcastleny.com/townhall.html>

_____ On this date, all items necessary for a technical review of the proposed site plan have been submitted and constitute a COMPLETE APPLICATION.

CRAIG ROSENMAN
49 SARLES ST
ARMONK, NY 10504-1230

7207

DATE 8/27/21

1-2/210

PAY TO THE ORDER OF Town of North Castle

three thousand six hundred & ninety eight

\$ 3698⁰⁰/₁₀₀

DOLLARS



Security Features Included. Details on Back.

CHASE
JPMorgan Chase Bank, N.A.
www.Chase.com

MEMO

⑆021000021⑆

421339578⑈7207

MP

CRAIG ROSENMAN
49 SARLES ST
ARMONK, NY 10504-1230

7208

DATE 8/27/21

1-2/210

PAY TO THE ORDER OF Town of North Castle

twelve hundred

\$ 1200⁰⁰/₁₀₀

DOLLARS



Security Features Included. Details on Back.

CHASE
JPMorgan Chase Bank, N.A.
www.Chase.com

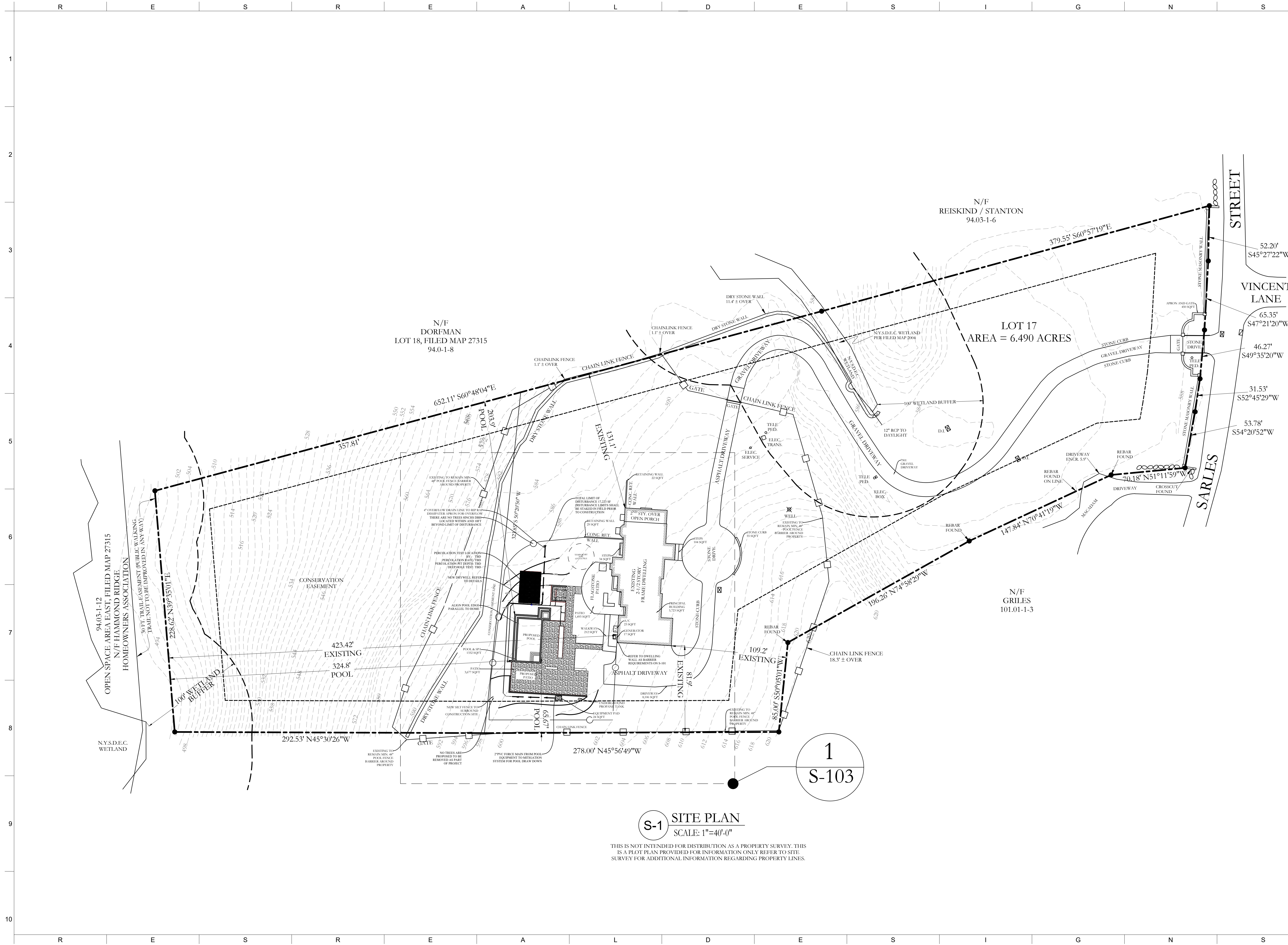
MEMO

RPRC filing fee

⑆021000021⑆

421339578⑈7208

MP



PROPERTY INFORMATION:
 PREPARED BY: JMS ENGINEERING SERVICES, PC
 PROJECT LOCATION: 49 SARLES STREET
 PROJECT TOWN: ARMONK
 BUILDING DEPARTMENT: NORTH CASTLE
 PROPERTY IDENTIFICATION: 94.03-1-7
 OCCUPANCY: SINGLE FAMILY DWELLING
 ZONING CODE: R-2A

ISSUE	DATE	BY	CHECKED	APPROVED
0	08/18/2021	JMS	JMS	JMS

SEAL &
 SIGNATURE:

JOHN M. SCAVELLI PE LICENSE # 095178
 JMS ENGINEERING SERVICES, PC

IT IS A VIOLATION OF STATE LAW FOR ANY PERSON
 UNLESS DIRECTED BY A REGISTERED ARCHITECT
 OR PROFESSIONAL ENGINEER TO ALTER THIS ITEM
 IN ANY WAY.

PROJECT:
 49 Sarles Street
 Armonk, NY 10504

DRAWING TITLE:
 SITE IMPROVEMENTS
 DETAILS SHEET 2

S -102

NOTES:
 Rosenman

S-1 SITE PLAN
 SCALE: 1"=40'-0"

THIS IS NOT INTENDED FOR DISTRIBUTION AS A PROPERTY SURVEY. THIS IS A PLOT PLAN PROVIDED FOR INFORMATION ONLY REFER TO SITE SURVEY FOR ADDITIONAL INFORMATION REGARDING PROPERTY LINES.

1
 S-103

PROPERTY INFORMATION:
PREPARED BY: JMS ENGINEERING SERVICES, PC
PROJECT LOCATION: 49 SARLES STREET
PROJECT TOWN: ARMONK
BUILDING DEPARTMENT: NORTH CASTLE
PROPERTY IDENTIFICATION: 94-03-1-7
OCCUPANCY: SINGLE-FAMILY DWELLING
ZONING CODE: R-2A

ISSUE	DATE	BY	CHECKED	APPROVED
0	08/18/2021	JMS	JMS	JMS

SEAL & SIGNATURE:

JOHN M. SCAVELLI PE LICENSE # 095178
JMS ENGINEERING SERVICES, PC

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PROJECT:
49 Sarles Street
Armonk, NY 10504

DRAWING TITLE:
SITE IMPROVEMENTS
DETAILS SHEET 3

S -103

NOTES:
Rosenman

EROSION CONTROL MEASURE NOTES:

- ALL CLEARING & GRADING CONSTRUCTION MUST BE IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION CONTROL AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND STANDARDS. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THESE REQUIREMENTS. ANY VARIANCE FROM ADOPTED EROSION CONTROL STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- APPROVAL OF THIS EROSION CONTROL MEASURES DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN.
- A COPY OF THE APPROVED PLANS AND DRAWINGS MUST BE ON-SITE DURING CONSTRUCTION. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED OR RELATED PERMITS PRIOR TO BEGINNING CONSTRUCTION.
- THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
- THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
- ALL LOCATIONS OF EXISTING UTILITIES SHALL BE ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED ONLY APPROXIMATE AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS AND TO DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- CLEARING SHALL BE LIMITED TO THE AREAS WITHIN THE APPROVED DISTURBANCE LIMITS. EXPOSED SOILS MUST BE COVERED AT THE END OF EACH WORKING DAY WHEN WORKING.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR MUST MAINTAIN A SWEEPER ON SITE DURING EARTHWORK AND IMMEDIATELY REMOVE SOIL THAT HAS BEEN TRACKED ONTO PAVED AREAS AS RESULT OF CONSTRUCTION.
- THE EROSION CONTROL FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- FINAL SITE GRADING MUST DIRECT DRAINAGE AWAY FROM ALL BUILDING STRUCTURES AT A MINIMUM OF 6" WITHIN THE FIRST 10 FEET, PER THE INTERNATIONAL RESIDENTIAL CODE (IRC) R401.3.

LANDSCAPING NOTES:

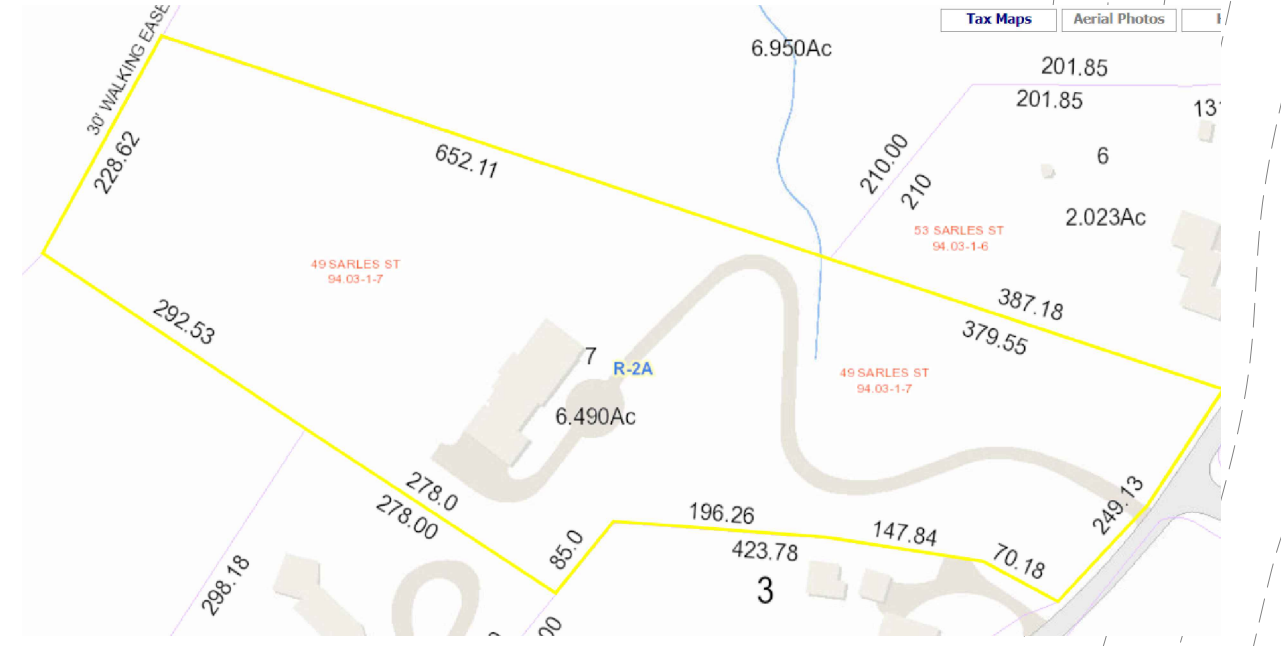
- FURNISH ALL MATERIALS, LABOR AND RELATED ITEMS AS REQUIRED FOR LANDSCAPING FINISHES AROUND PREMISES.
- ALL DISTURBED GRASS AREAS SHALL BE REPLANTED WITH NEW GRASS SEED AND SHALL BE APPROPRIATELY COVERED TO FACILITATE NEW SEASONAL GRASS GROWTH.
- ALL DEBRIS, ROCKS, FOREIGN OBJECTS OVER 2" DIAMETER SHALL BE REMOVED FROM TOP SURFACE OF ALL PREPARED LANDSCAPE AREAS PRIOR TO ANY NEW LANDSCAPING WORK.
- SEED MIXTURE CONTAINING 40% PERENNIAL RYE GRASS, 25% CHEWING FESCUE AND 10% OF MIXED CLOVER OR SIMILAR COVERAGE SHALL BE SPREAD OVER EXCAVATED PREMISES AT THE RATE OF 100 POUNDS PER ACRES. SEED SHALL BE BRUSHED IN LIGHTLY AND ROLLED FIRM.
- EXISTING TREES AND SHRUBS ON SITE SHALL BE PROTECTED DURING CONSTRUCTION.
- EXISTING SHRUBS AND TREES SHALL BE GROOMED AND TRIMMED AND ALL ADDITIONAL DEBRIS TO BE REMOVED FROM SITE.

MATERIAL REMOVAL NOTES:

- NO MATERIALS SHALL BE EXCAVATED OR REMOVED EXCEPT FROM THOSE AREAS AND PORTIONS OF EXCAVATED PREMISES AS ARE INDICATED FOR EXCAVATION OR REMOVAL ON SITE PLAN.
- NO MATERIALS SHALL BE EXCAVATED OR REMOVED FROM ANY AREA OR PORTION OF THE EXCAVATED PREMISES AT ANY DEPTH BELOW THE PROPOSED GRADE SHOWN FOR SUCH AREA OR PORTION OF AREA.
- THE GRADES AND SLOPES OF THE EXCAVATED PREMISES SHALL BE FINISHED IN ACCORDANCE WITH ALL DETAILS SHOWN ON TOPOGRAPHICAL MAP.



A AERIAL VIEW
SCALE: NTS



G GIS VIEW
SCALE: NTS

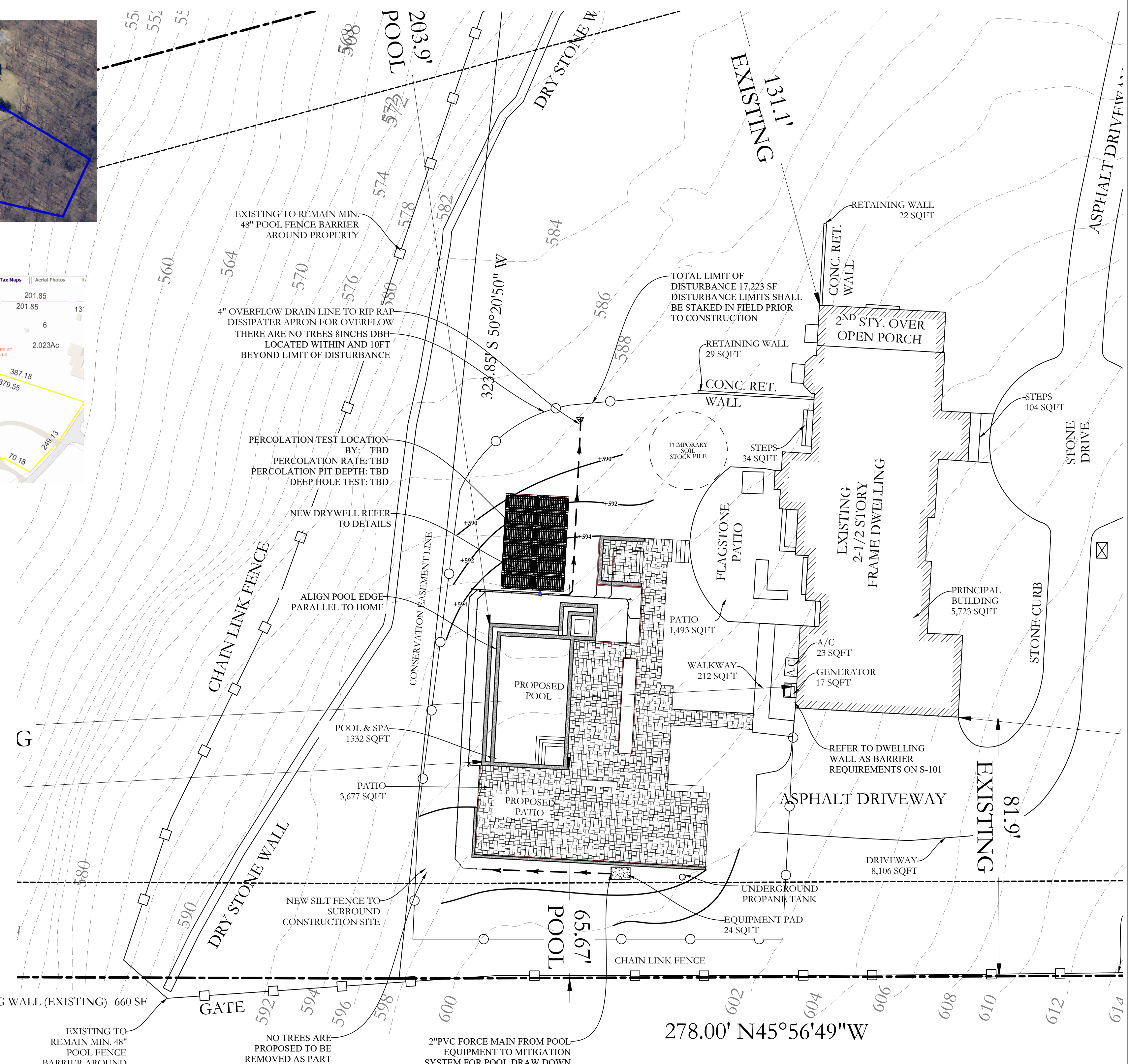
ZONING CONFORMANCE TABLE				
	REQUIRED	EXISTING	PROPOSED	VARIANCE REQUIRED
LOT AREA [SF]	87,120	282,726	282,726	NO
LOT AREA [ACRES]	2	6	6	NO
FRONT YARD 1 [FT]	50	109.2	109.2	NO
SIDE YARD 1 [FT]	30	131.1	131.1	NO
SIDE YARD 2 [FT]	30	81.9	81.9	NO
REAR YARD [FT]	50	423.42	423.42	NO
MAX BUILDING COVERAGE [%]	8%	2	2	NO
MAX DWELLING UNIT SIZE [SF]	1,400	5,579	5,579	NO
POOL SIDE YARD 1 [FT]	25	N/A	203.9	NO
POOL SIDE YARD 2 [FT]	25	N/A	65.67	NO
POOL REAR YARD [FT]	25	N/A	324.8	NO

Z ZONING REQUIREMENTS
SCALE: NTS

GROSS LAND COVERAGES:
PRINCIPAL BUILDING (EXISTING) - 5,723 SF
ASPHALT DRIVEWAY (EXISTING) - 8,106 SF
TERRACES (EXISTING) - 1,705 SF
EQUIPMENT (EXISTING) - 40 SF
OTHER STRUCTURES - APRON, GATE, CURBS RETAINING WALL (EXISTING) - 660 SF
TERRACES (PROPOSED) - 3,677 SF
EQUIPMENT (PROPOSED) - 24 SF
POOL & SPA (PROPOSED) 1332 SF
TOTAL COVERAGE: 21, 267 SF

ADDITIONAL REQUIREMENTS:

- CONTRACTOR SHALL SCHEDULE ALL REQUIRED EROSION AND SEDIMENT CONTROL INSPECTIONS WITH THE TOWN ENGINEER JIM HAHN, WHICH WILL INCLUDE FINAL SIGN OFF APPROVAL FROM THE TOWN ENGINEER.
- THE PROPOSED IN-GROUND POOL IS DESIGNED AND WILL BE CONSTRUCTED IN CONFORMANCE WITH ANSI/APSP/ICC 5 & THAT THE PROPOSED SPA WILL BE CONSTRUCTED IN CONFORMANCE WITH ANSI/APSP/ICC 3.
- THE SUCTION GRATE COVERS SHALL CONFORM TO ANSI/ASME A112.19.18.
- ALL GATES SHALL BE SELF LATCHING, WITH THE LATCH HANDLE LOCATED WITHIN THE ENCLOSURE (POOL SIDE OF ENCLOSURE) AND AT LEAST 40" ABOVE GRADE. IN ADDITION, IF THE LATCH HANDLE IS LOCATED LESS THAN 54" FROM GRADE THEN THE LATCH HANDLE SHALL BE LOCATED WITHIN AT LEAST 3" BELOW THE TOP OF THE GATE, AND NEITHER THE GATE NOR THE BARRIER SHALL HAVE ANY OPENING GREATER THAN 0.5 INCH WITHIN 18" OF LATCH HANDLE



1 ENLARGED SITEPLAN
SCALE: 1"=20'-0"

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PROPERTY INFORMATION:
PREPARED BY: JMS ENGINEERING SERVICES, PC
PROJECT LOCATION: 49 SARLES STREET
PROJECT TOWN: ARMONK
BUILDING DEPARTMENT: NORTH CASTLE
PROPERTY IDENTIFICATION: 94.03-1-7
OCCUPANCY: SINGLE FAMILY DWELLING
ZONING CODE: R-2A

ISSUE	DATE	BY	CHECKED	APPROVED
0	08/18/2021	JMS	JMS	JMS

SEAL &
SIGNATURE:

JOHN M. SCAVELLI PE LICENSE # 095178
JMS ENGINEERING SERVICES, PC

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PROJECT:

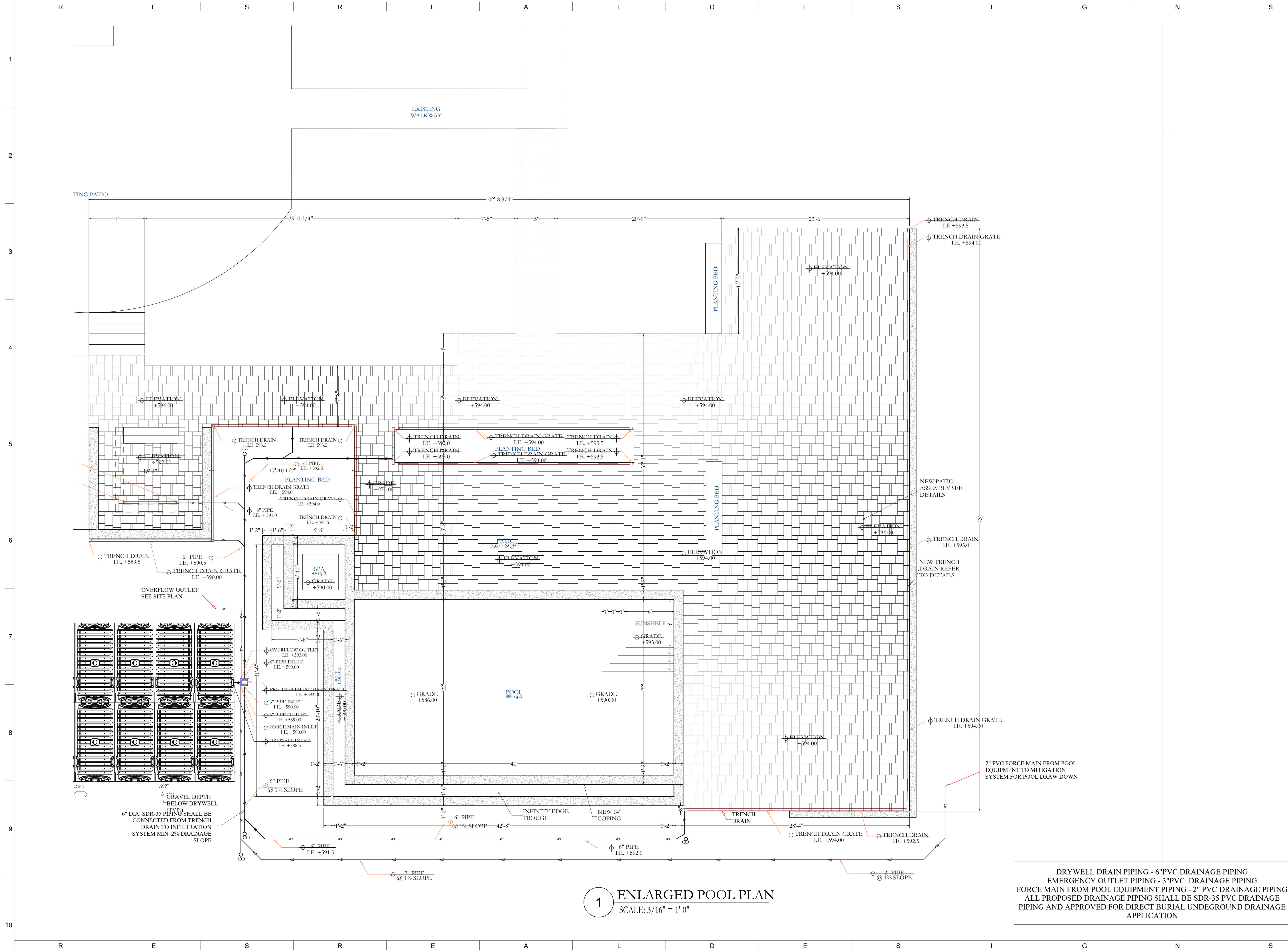
49 Sarles Street
Armonk, NY 10504

DRAWING TITLE:

SITE IMPROVEMENTS
DETAILS SHEET 4

S -104

NOTES: **Rosenman**

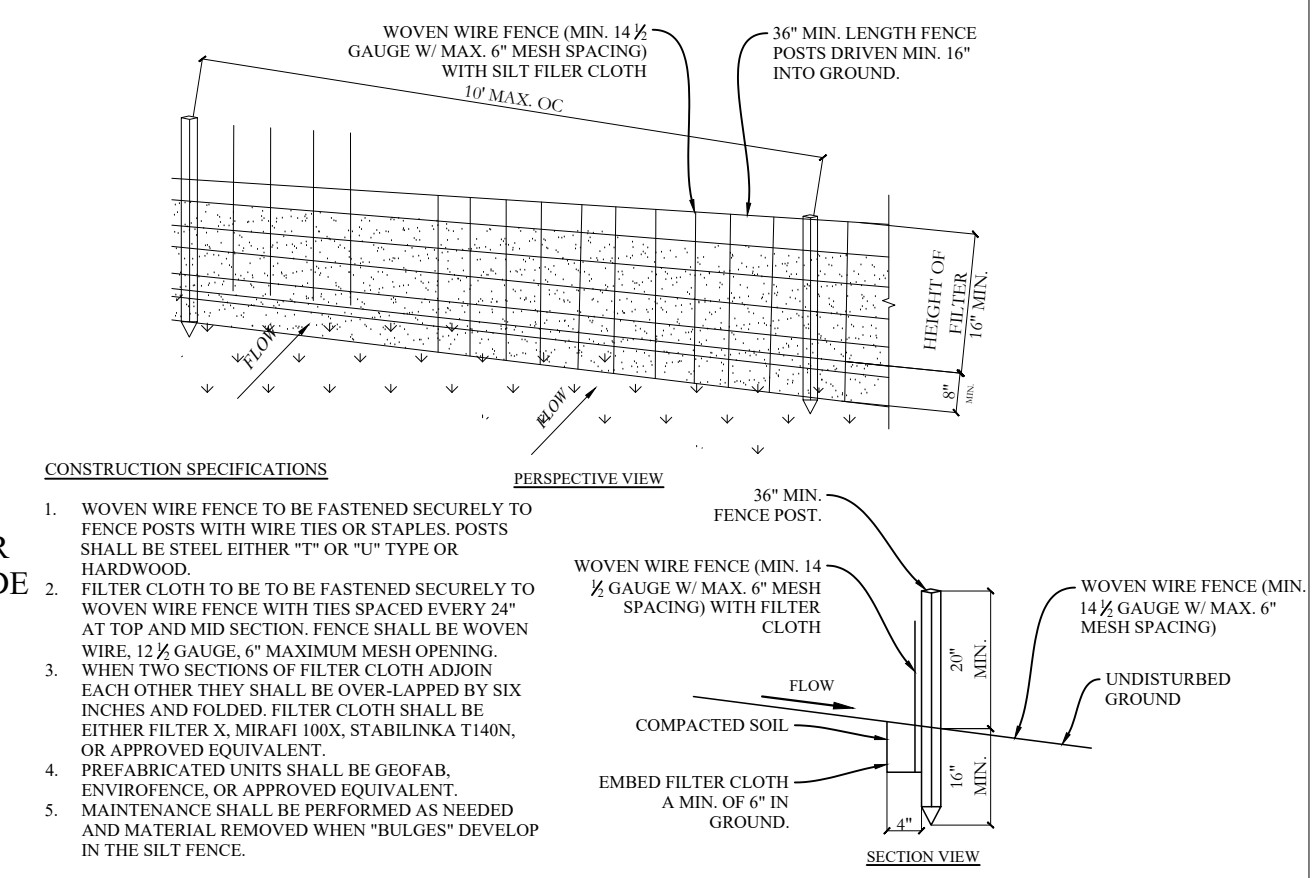
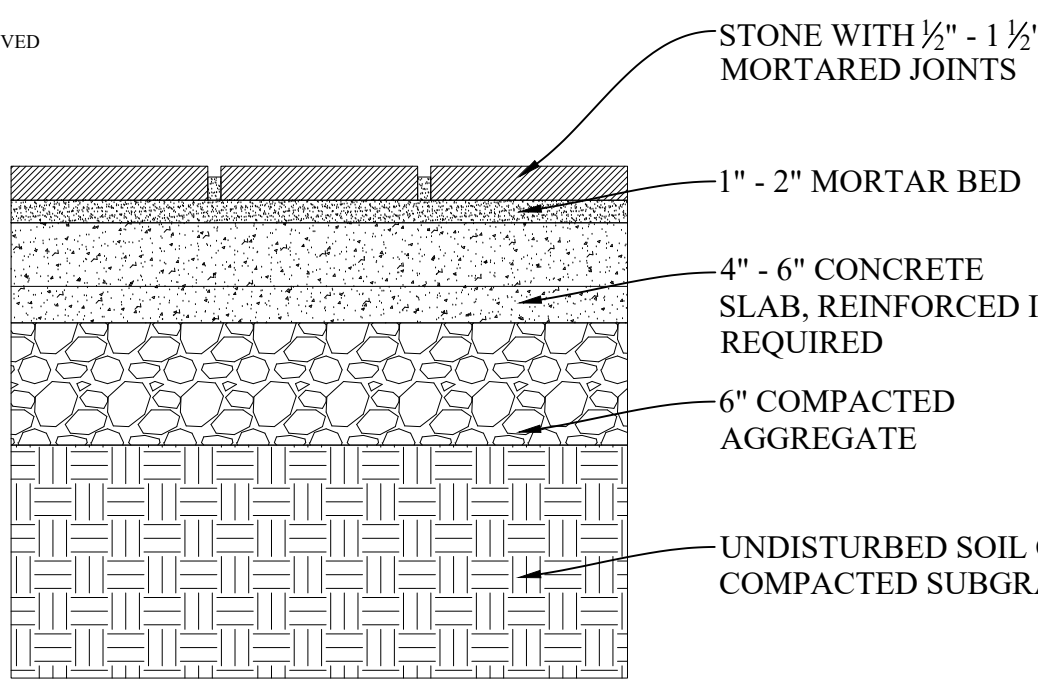
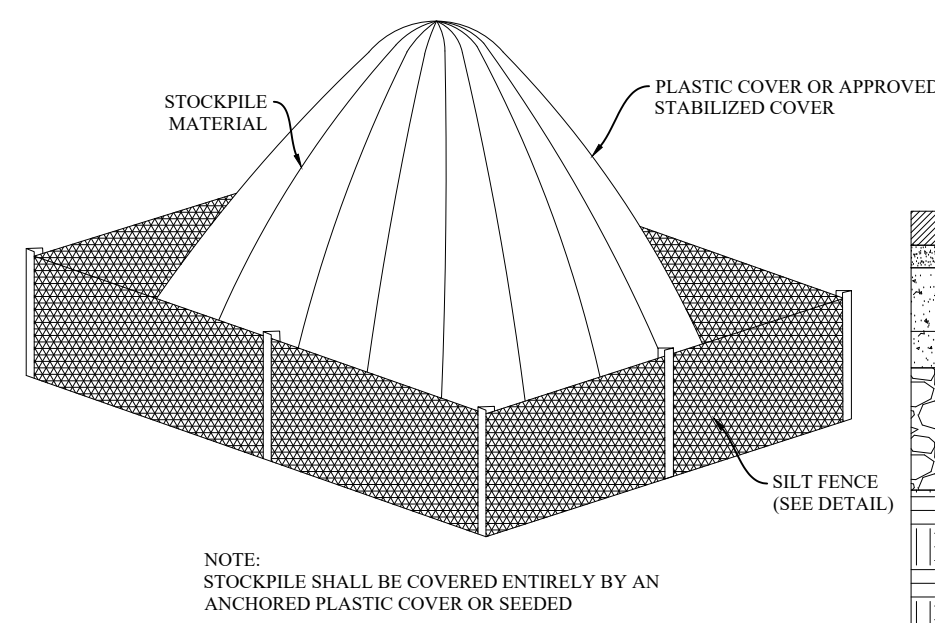
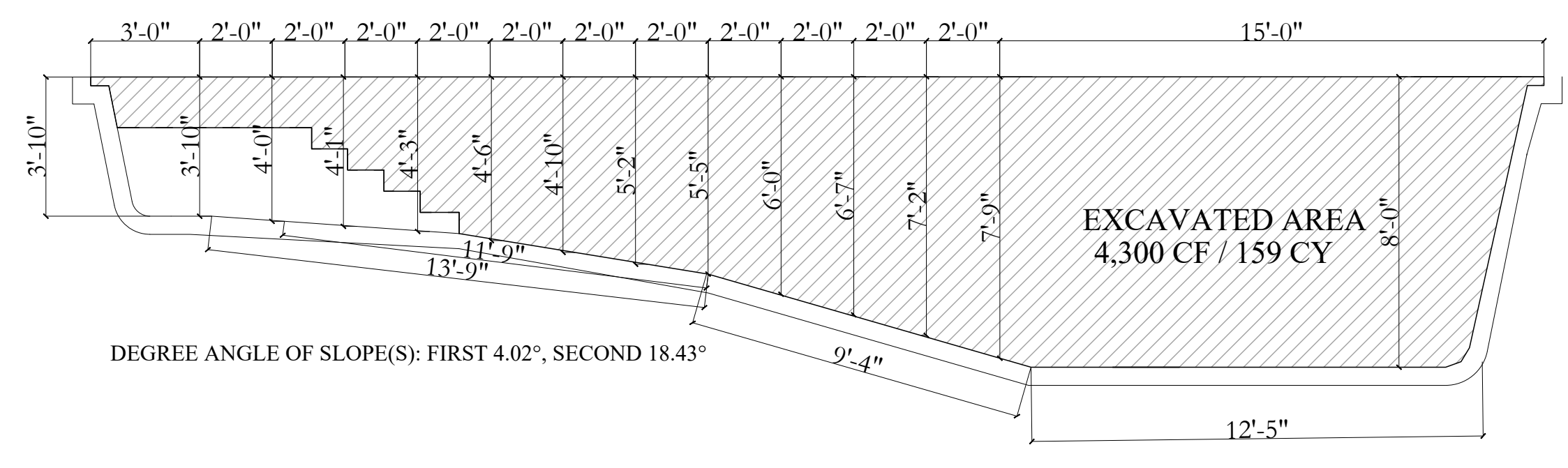


1 ENLARGED POOL PLAN
SCALE: 3/16" = 1'-0"

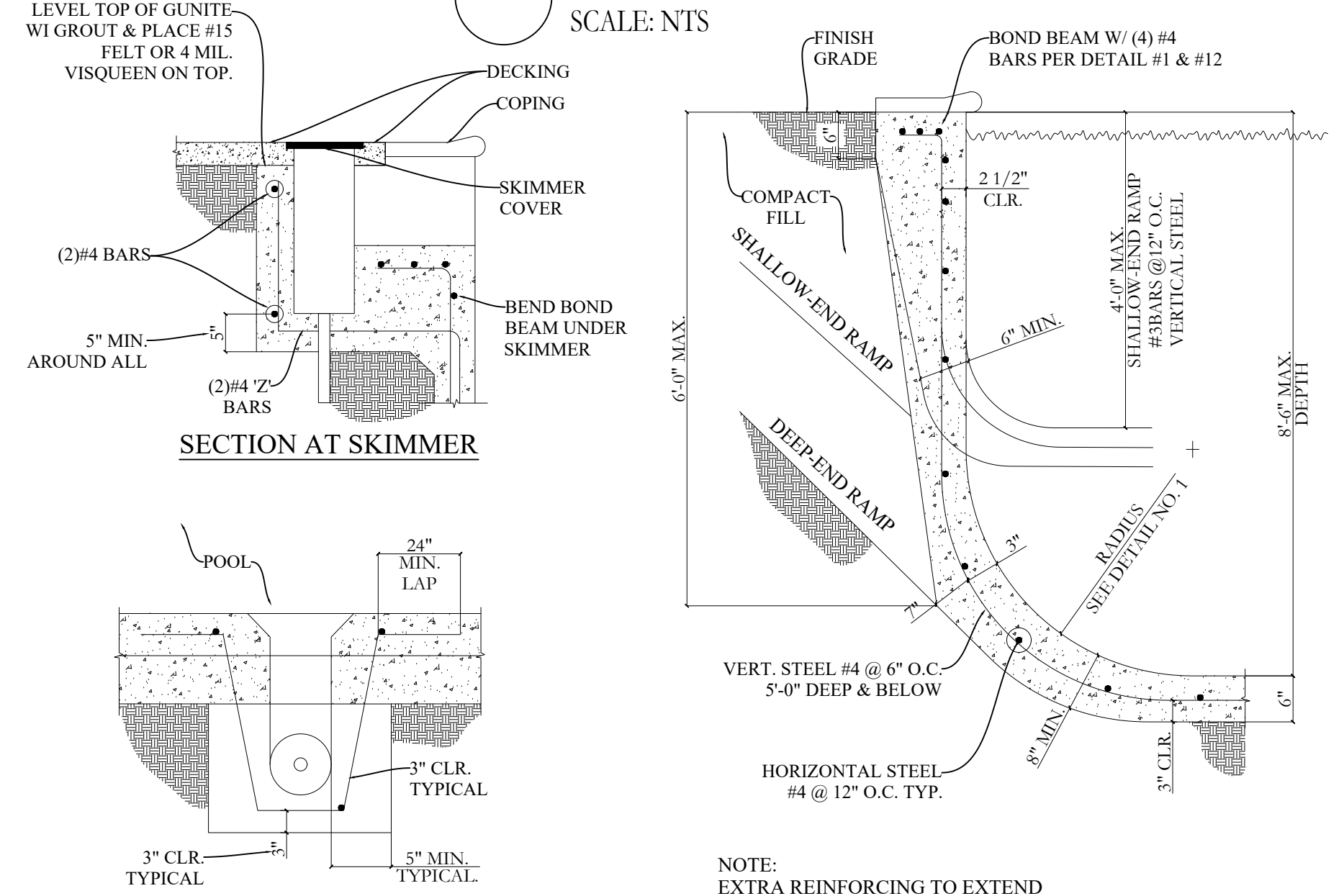
DRYWELL DRAIN PIPING - 6" PVC DRAINAGE PIPING
EMERGENCY OUTLET PIPING - 3" PVC DRAINAGE PIPING
FORCE MAIN FROM POOL EQUIPMENT PIPING - 2" PVC DRAINAGE PIPING
ALL PROPOSED DRAINAGE PIPING SHALL BE SDR-35 PVC DRAINAGE PIPING AND APPROVED FOR DIRECT BURIAL UNDERGROUND DRAINAGE APPLICATION

PROPERTY INFORMATION:
PREPARED BY: JMS ENGINEERING SERVICES, PC
PROJECT LOCATION: 49 SARLES STREET
PROJECT TOWN: ARMONK
BUILDING DEPARTMENT: NORTH CASTLE
PROPERTY IDENTIFICATION: 94-03-1-7
OCCUPANCY: SINGLE FAMILY DWELLING
ZONING CODE: R-2A

POOL SHELL DEPTH DIMENSIONS



DEPTH OF POOL SECTION



SOIL STOCK PILE DETAIL

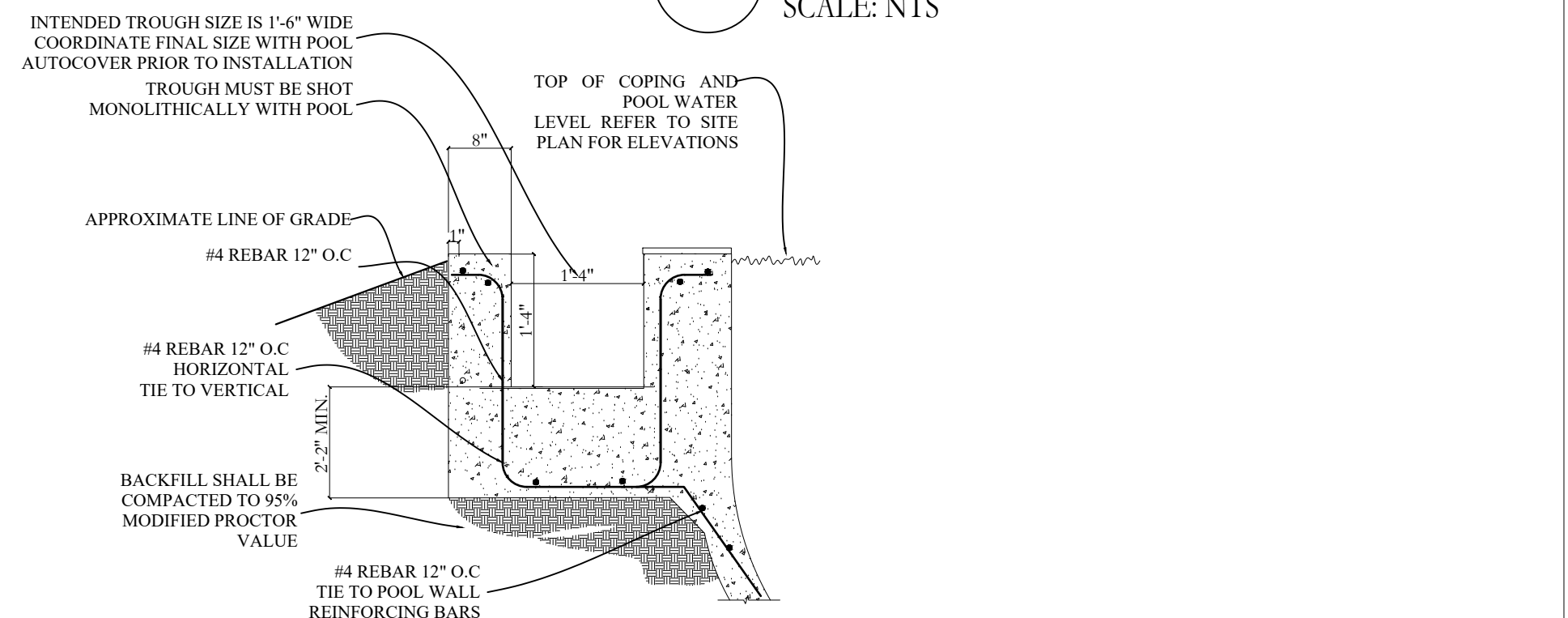
- SCALE: NTS
- BENCH AND STEP OPTIONS:**
- UNDISTURBED EARTH MAY BE LEFT IN PLACE TO FORM THE STEPS OR BENCHES. REINFORCING STEEL SHOULD BE PLACED AROUND THE STEP OR BENCH SHAPED EARTH (3" CLEAR FROM EARTH).
 - THE EARTH MAY BE REMOVED AND BENCHES AND STEPS MAY BE FORMED OF SHOTCRETE (GUNITE) WITHIN THE STRUCTURAL POOL SHELL. REINFORCING AT THE SURFACE OF THE BENCHES AND STEPS IS OPTIONAL.

PATIO DETAILS

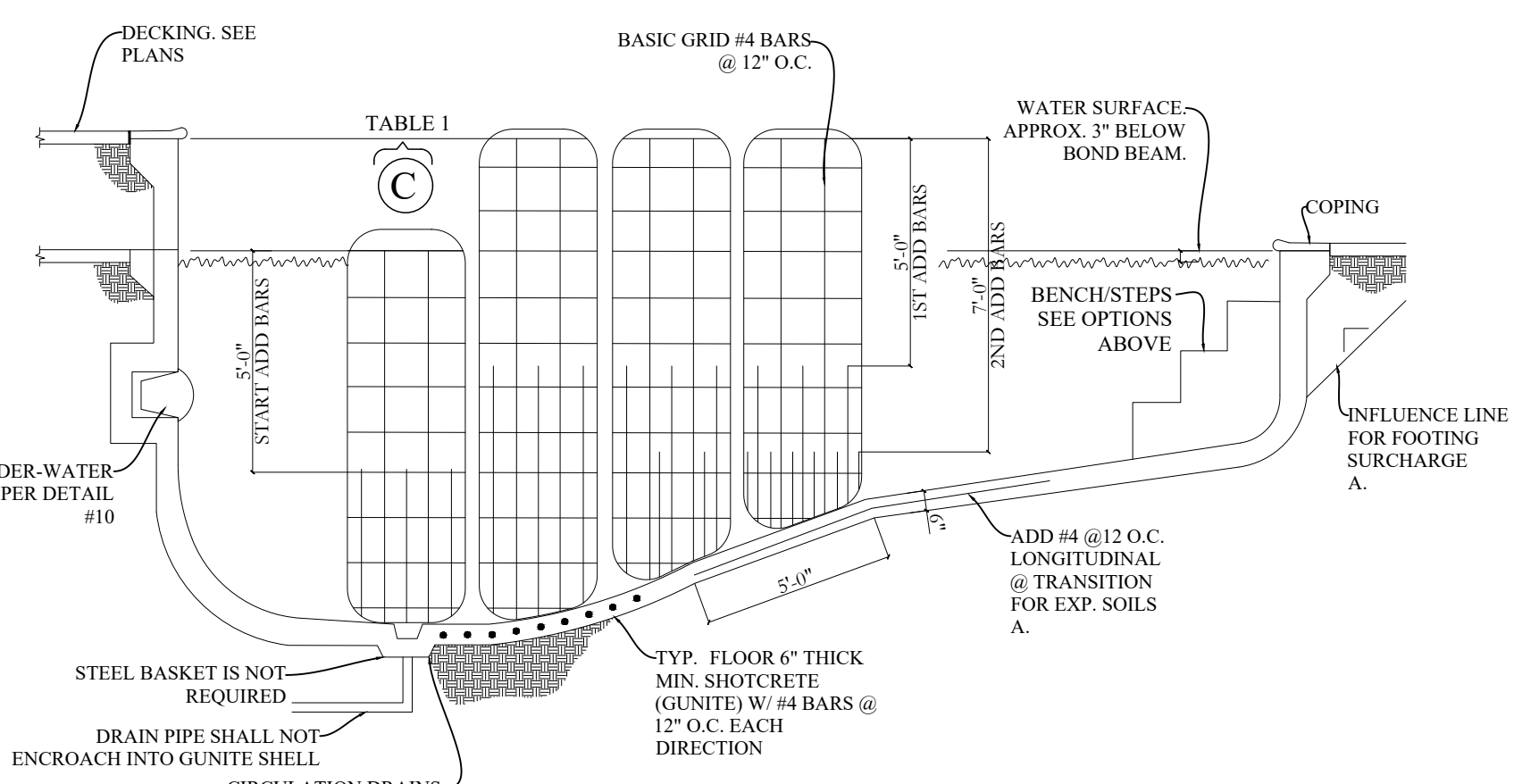
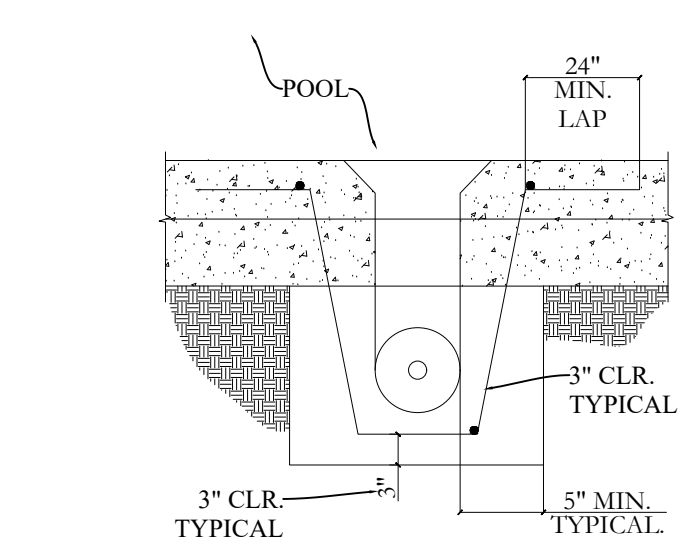
SCALE: NTS

SILT FENCE DETAILS

SCALE: NTS



SECTION AT SKIMMER

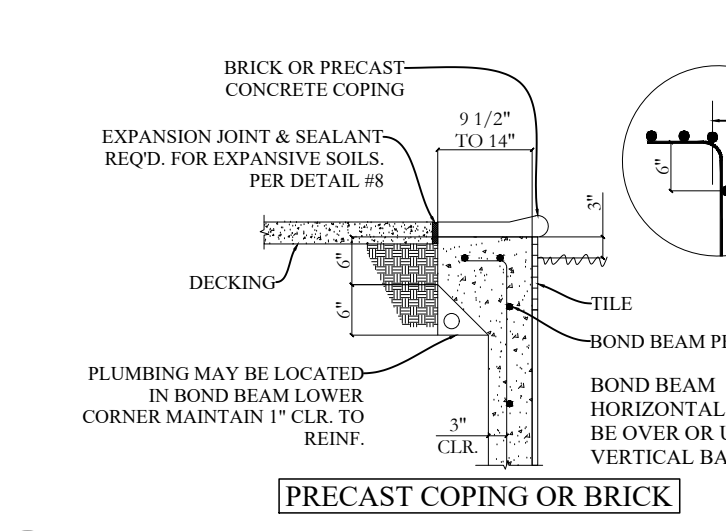


POOL COVER TROUGH DETAIL

SCALE: NTS

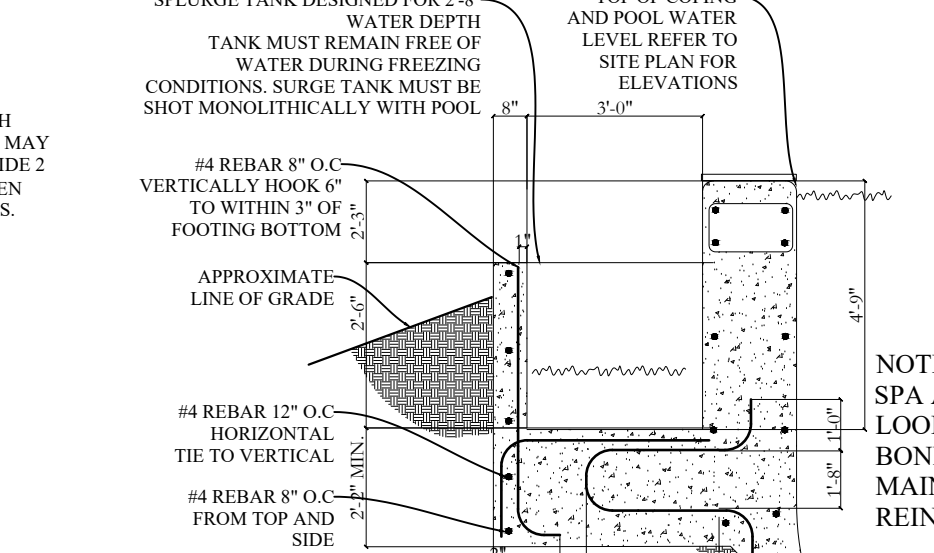
PLAN AT SKIMMER

SCALE: NTS



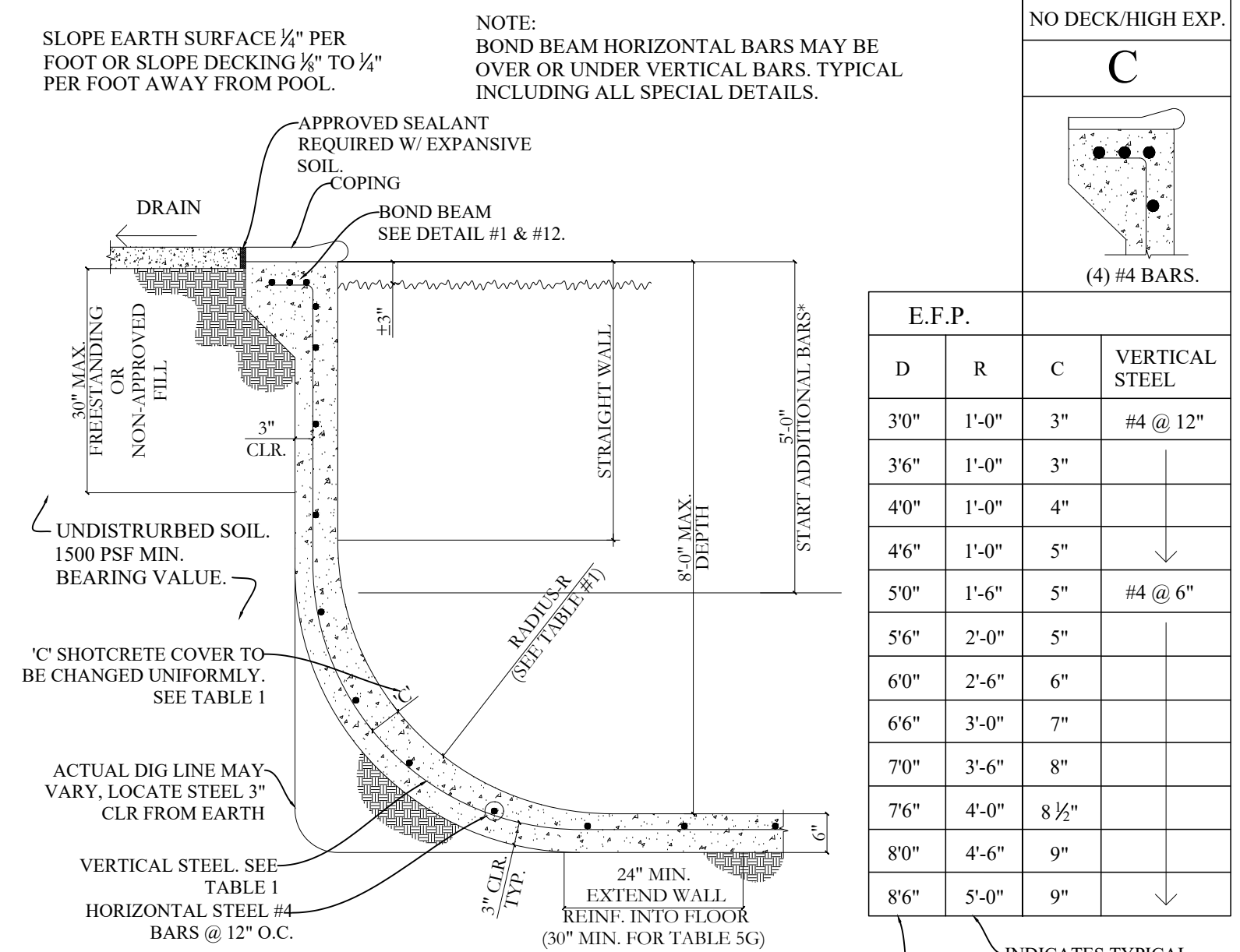
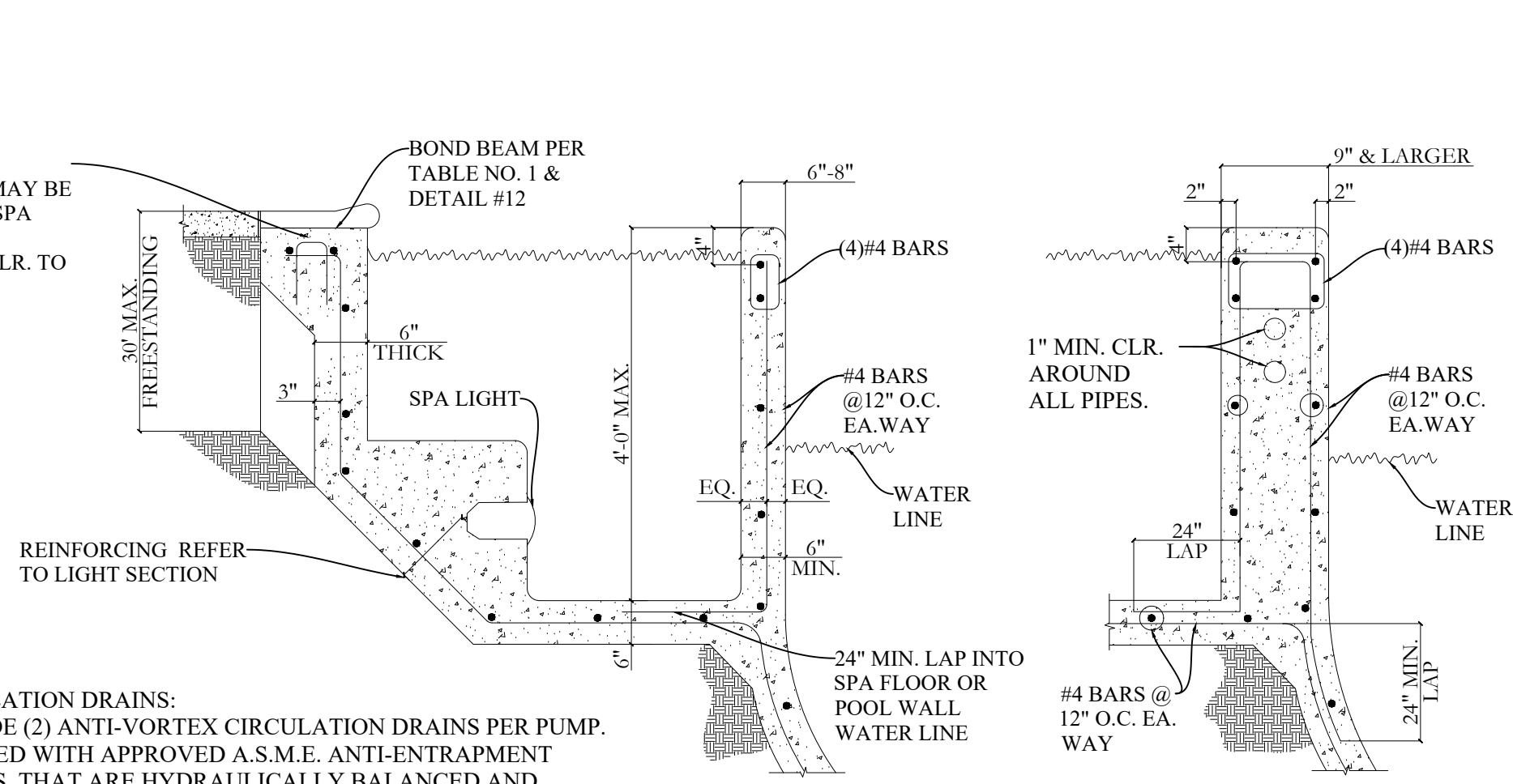
LIGHT DETAILS

SCALE: NTS



LONGITUDINAL SECTION DETAILS

SCALE: NTS

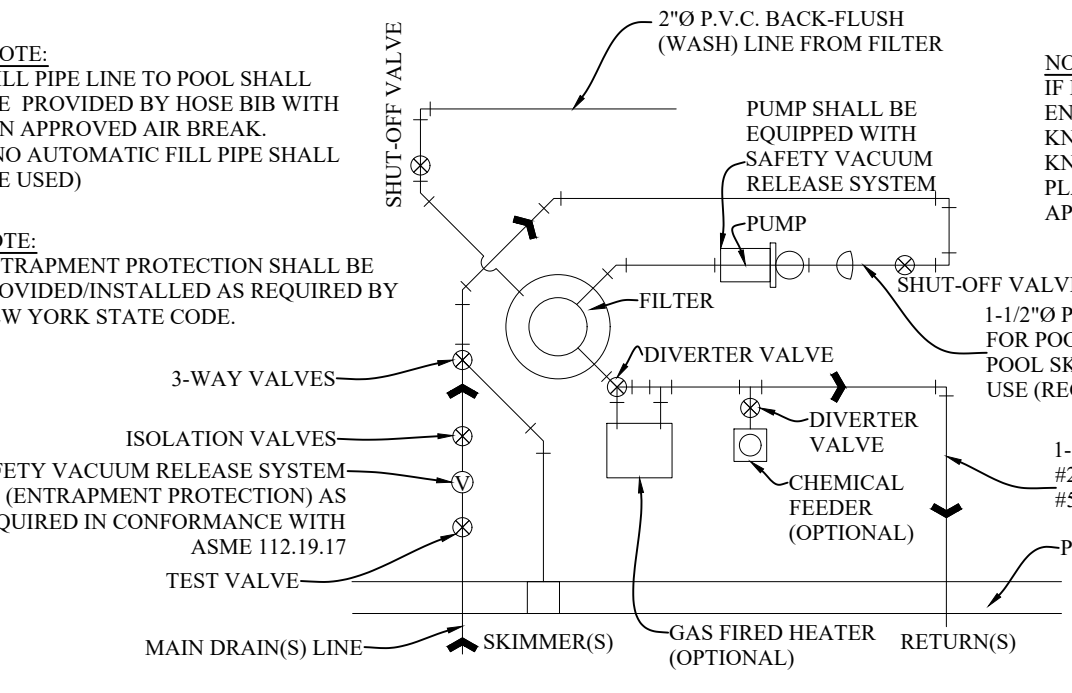


E.F.P.			
D	R	C	VERTICAL STEEL
30"	1'-0"	3"	#4 @ 12"
36"	1'-0"	3"	
40"	1'-0"	4"	
46"	1'-0"	5"	
50"	1'-6"	5"	#4 @ 6"
56"	2'-0"	5"	
60"	2'-6"	6"	
66"	3'-0"	7"	
70"	3'-6"	8"	
76"	4'-0"	8 1/2"	
80"	4'-6"	9"	
86"	5'-0"	9"	

*INDICATES TYPICAL RADIUS
*D IS DISTANCE DOWN FROM TOP OF POOL WALL.

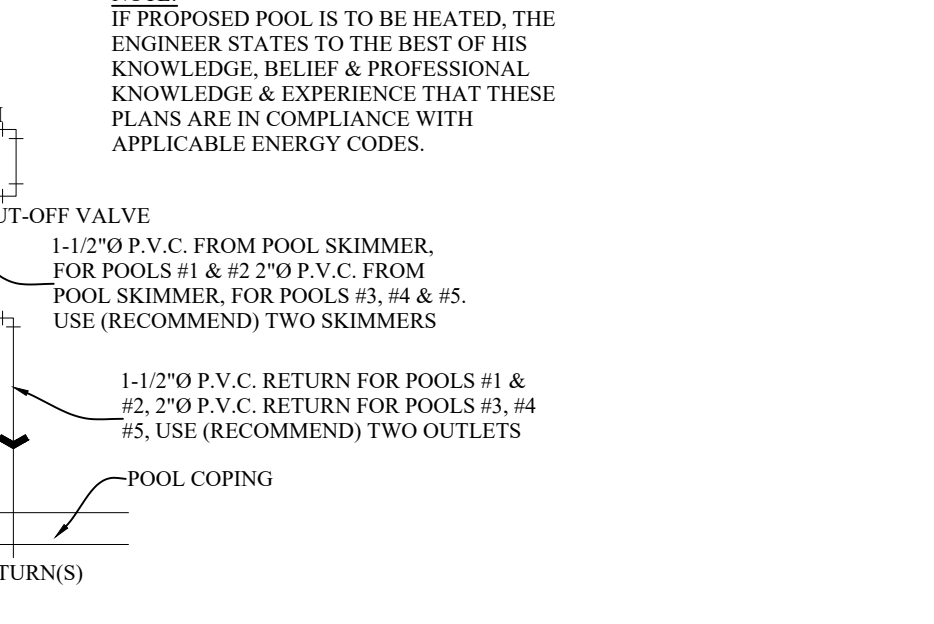
BOND BEAM/COPING DETAILS

SCALE: NTS



TANK DETAIL

SCALE: NTS



CIRCULATION DRAINS:
PROVIDE (2) ANTI-VORTEX CIRCULATION DRAINS PER PUMP. COVERED WITH APPROVED A.S.M.E. ANTI-ENTRAPMENT GRATES. THAT ARE HYDRAULICALLY BALANCED AND SYMMETRICALLY PLUMBED THROUGH "T" FITTINGS. DRAINS SHALL BE SEPARATED BY THREE FEET IN ANY DIMENSION.

DAM HORIZ. BAR	6" DAM	- LAP INTO SPA REINF.
LAP SPLICE:	12" DAM	- LAP INSIDE BARS INTO SPA REINF. - LAP OUTSIDE BARS INTO POOL REINF.

SPA DETAILS

SCALE: NTS

STANDARD WALL REINFORCEMENT DETAILS

SCALE: NTS

SEAL & SIGNATURE:

JOHN M. SCAVELLI PE LICENSE # 095178
JMS ENGINEERING SERVICES, PC

IT IS A VIOLATION OF STATE LAW FOR ANY PERSON UNLESS DIRECTED BY A REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER TO ALTER THIS ITEM IN ANY WAY.

PROJECT:
49 Sarles Street
Armonk, NY 10504

DRAWING TITLE:
SITE IMPROVEMENTS
DETAILS SHEET 5

S -105

NOTES:
Rosenman

CULTEC RECHARGER® 330XLHD PRODUCT SPECIFICATIONS

GENERAL
CULTEC RECHARGER 330XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

- THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC.
- THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
- THE CHAMBER SHALL BE ARCHED IN SHAPE.
- THE CHAMBER SHALL BE OPEN-BOTTOMED.
- THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 330XLHD SHALL BE 30.5 INCHES TALL, 52 INCHES WIDE AND 8.5 FEET LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 330XLHD SHALL BE 7 FEET.
- MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 24 INCHES HDPE.
- THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV® FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL DIMENSIONS OF EACH SIDE PORTAL SHALL BE 10.5 INCHES HIGH BY 11.5 INCHES WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 11.75 INCHES.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES TALL, 16 INCHES WIDE AND 24.2 INCHES LONG.
- THE NOMINAL STORAGE VOLUME OF THE RECHARGER 330XLHD CHAMBER SHALL BE 7.459 FT³ / FT² - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 330XLHD SHALL BE 52.213 FT³ / UNIT - WITHOUT STONE.
- THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT² - WITHOUT STONE.
- THE RECHARGER 330XLHD CHAMBER SHALL HAVE FIFTY-SIX DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
- THE RECHARGER 330XLHD CHAMBER SHALL HAVE 16 CORRUGATIONS.
- THE ENDWALL OF THE CHAMBER, WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
- THE RECHARGER 330XLHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
- THE RECHARGER 330XLHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 14 INCHES HIGH X 34.5 INCHES WIDE.
- THE RECHARGER 330XLHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 14 INCHES HIGH X 34.5 INCHES WIDE.
- THE RECHARGER 330XLHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
- THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 330XLHD AND ACT AS CROSS FEED CONNECTIONS.

20. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.

21. THE CHAMBER SHALL HAVE A 6 INCH DIAMETER RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.

22. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.

23. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.

24. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET

25. THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

STORM WATER CONSTRUCTION NOTES

- THE STORM WATER RETENTION SYSTEM SHALL NOT BE CONNECTED FOR USE UNTIL CONSTRUCTION IS COMPLETE AND SITE IS STABILIZED.

EXISTING DRAINAGE SYSTEM NOTES

- THE CURRENT SITE DOES NOT HAVE A MEANS OF STORM WATER RETENTION.
- A NEW STORM WATER SYSTEM IS PROPOSED FOR ADDITIONAL SITE COVERAGE.

CULTEC NO. 66™ WOVEN GEOTEXTILE

GENERAL
CULTEC NO. 66™ WOVEN GEOTEXTILE IS UTILIZED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE.

GEOTEXTILE PARAMETERS

- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
- THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 315 LBS (1.40KN) PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TENSILE ELONGATION RESISTANCE OF 15% @ 60% PER ASTM D4632 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A MULLEN BURST RESISTANCE OF 600PSI (4138 KPA) PER ASTM D3786 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A TEAR RESISTANCE OF 115 LBS (0.51 KN) PER ASTM D4533 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PUNCTURE RESISTANCE OF 150 LBS (0.66 KN) PER ASTM D4833 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 900 LBS (4.00 KN) PER ASTM D6241 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.05 SEC-1 PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 4 GPM/FT2 (160 LPM/M2) PER ASTM D4491 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE A PERCENT OPEN AREA OF <1% PER CW-02215 TESTING METHOD.
- THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
- THE GEOTEXTILE SHALL CONSIST OF A 100% HIGH-TENACITY, SILT-FILM POLYPROPYLENE YARNS.

POST STORM WATER MANAGEMENT MAINTENANCE NOTES:

- SYSTEM SHOULD BE INSPECTED PRIOR TO SYSTEM OPERATION.
- STORMWATER INSPECTION PORTS ARE TO BE MONITORED ON A ROUTINE BASIS.
- ALL GUTTERS AND DOWNSPOUT SYSTEMS LEADING TO STORMWATER RETENTION AREAS SHOULD BE MAINTAINED FREE OF DEBRIS AND CLEANED ON A ROUTINE BASIS.
- OVERFLOW PORTS SHOULD BE MONITORED.
- SYSTEM RECOMMENDED TO BE CLEANED :
 - WHERE SYSTEM IS EXPERIENCING SILT AND/OR SOIL BUILD UP AS NOTED THROUGH THE INSPECTION PORT OR PRETREATMENT HOOD.
 - IF OUTLET PIPING IS NOTED TO BE CLOGGED AND WATER DISCHARGE IS NOTED FROM OVERFLOW SURCHARGE PIPING

EXTREME PRECIPITATION TABLE

STATE: NEW YORK
LONGITUDE: 73.709 WEST
LATITUDE: 41.159 NORTH
25 YEAR/24HR - 6.46INCHES/HR
SOURCE -
NORTHEAST REGIONAL CLIMATE CENTER (NRCC)
NATURAL RESOURCES CONSERVATION SERVICE (NRCS)

STORM WATER RETENTION NOTES

METHOD: TR-55
PROPOSED CURVE NUMBER (CN): 98
PROPOSED CURVE NUMBER (CN): DRIVEWAYS/ROOFS
EXISTING CURVE NUMBER (CN): 75
CURVE NUMBER (CN): RESIDENTIAL
SOIL TYPE: LpC URBAN LAND -PAXTON COMPLEX 8-15% HYDROLOGIC SOIL: GROUP B
SOIL SURVEY WESTCHESTER COUNTY: PaB -0.6-2.0 IN/HR

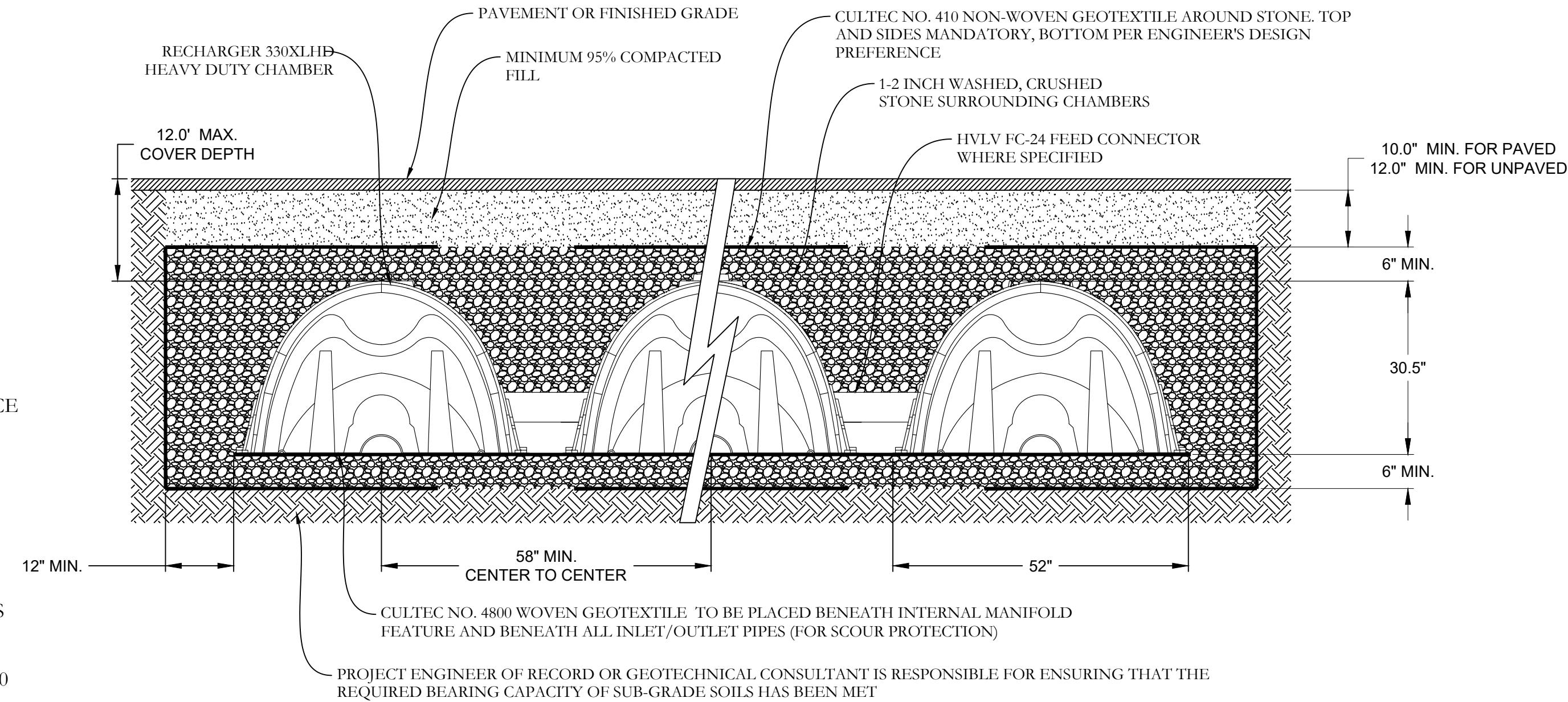
STORM WATER RETENTION CALCULATIONS

Culterc 330XLHD Capacity per Unit	8000 CF	
Area of Impervious	4785 SF	
Location Longitude/Latitude	73.709W / 41.159N	
Rainfall Event	24 Hr	
Rainfall Duration	24 Hr	
Rainfall Rate	6.46 IN/HR	
New Impervious - Paved / Roads / Paved	4785 SF	
Q/ Direct Runoff	6.19 IN	
Flowing into 6" Pipe CN 75	3.15 IN	
Net Increase	2.94 IN	
Increase in Run Off	1000.000 CF	
Loss Subsequent Absorption*	0.00 CF	
NO PERCOLATION CREDIT USED		
12" Covered Shallow		
Type	CF Capacity/Unit	Required # of Units
Culterc 330XLHD Capacity per Unit	8000	11.8
Total # of Required Units	12	
Total Required Capacity for 6"		
Overflows subsequent practice	440.00	5.11
Total Required Capacity for 24 Year		
Storm	8000.00	CF
Proposed # of Units	12	
Proposed Capacity	1032.00	CF
Total Capacity	1032.00	CF

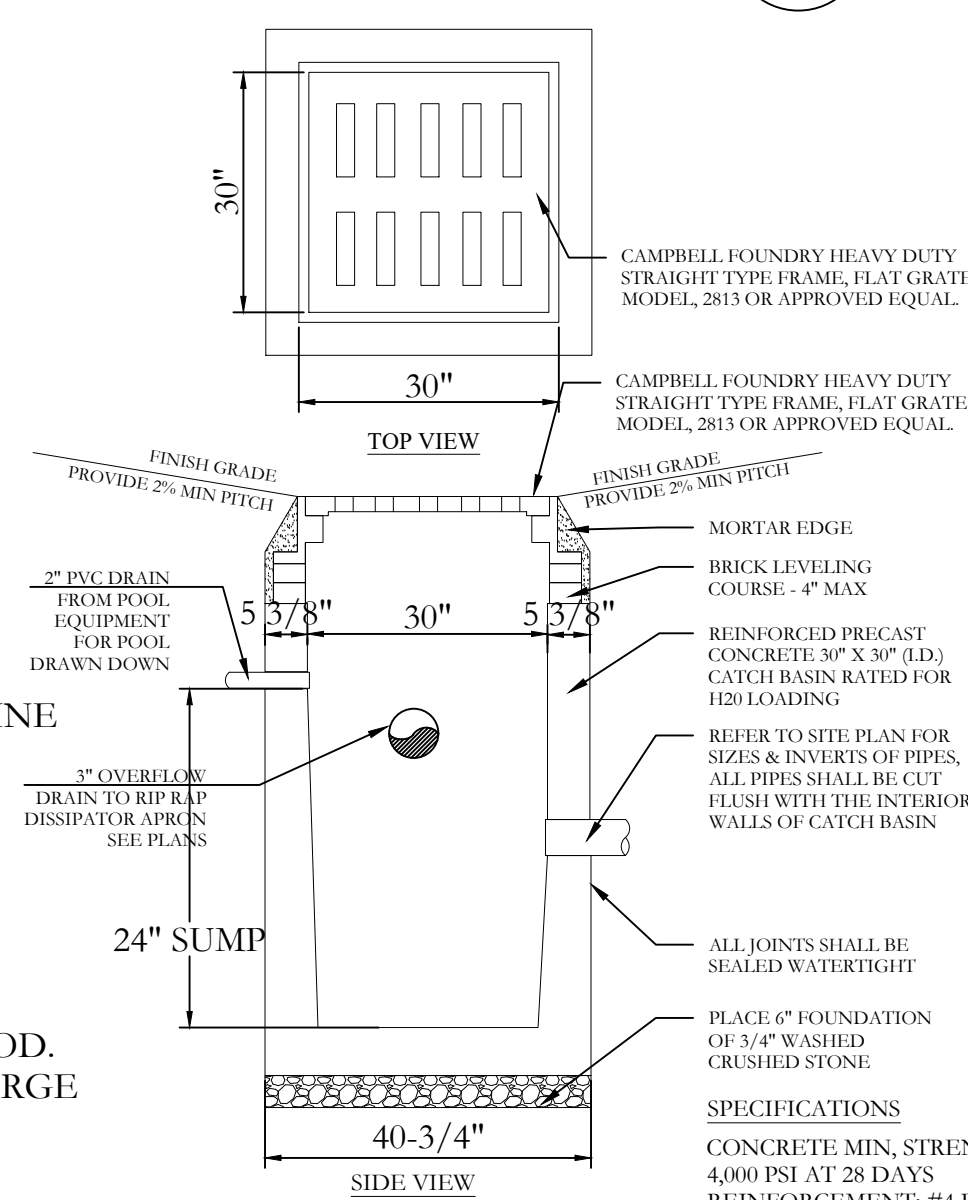
STORM WATER RETENTION MATERIAL

AREA [SF]	CHAMBERS [QTY]	CHAMBER VOLUME	STONE VOLUME	STONE VOID	
(DW-1)	4785	12	1032.00 cu yd	37.56 cu yd	40%

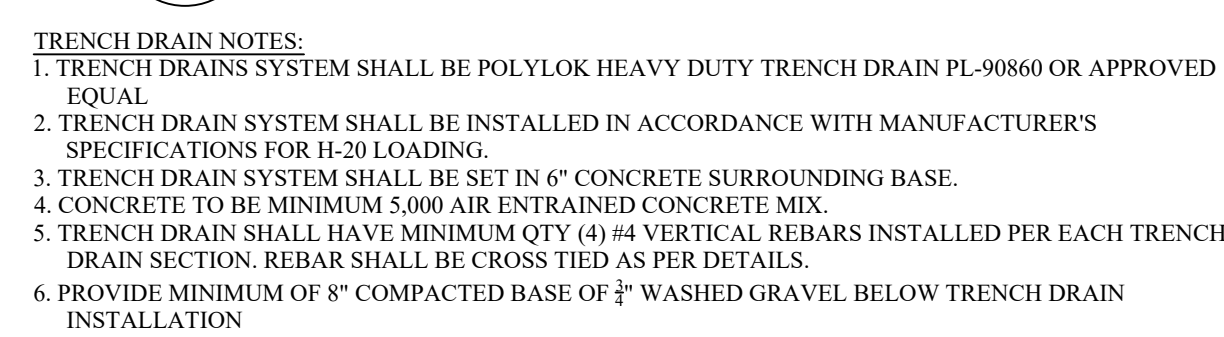
*12" STONE ABOVE CROWN, 18" STONE FOUNDATION DEPTH, 12" SIDE COVER



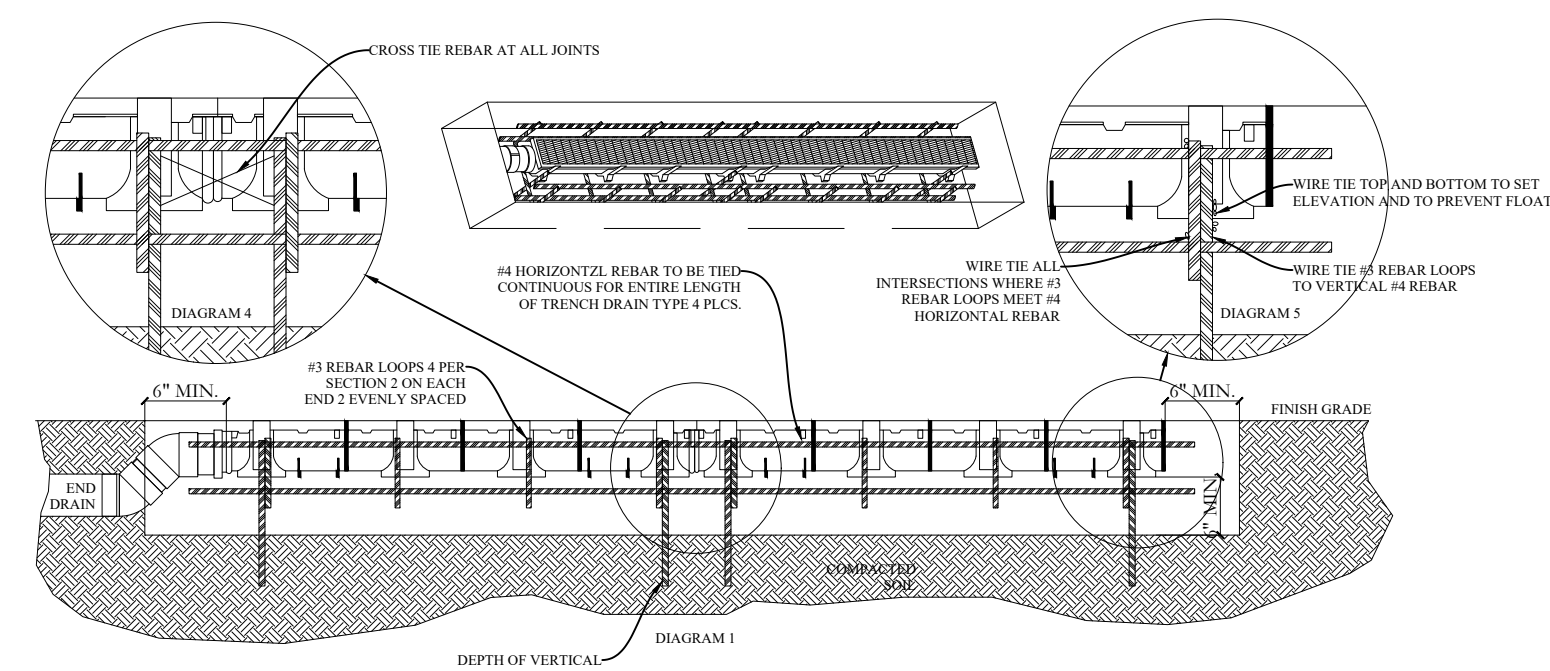
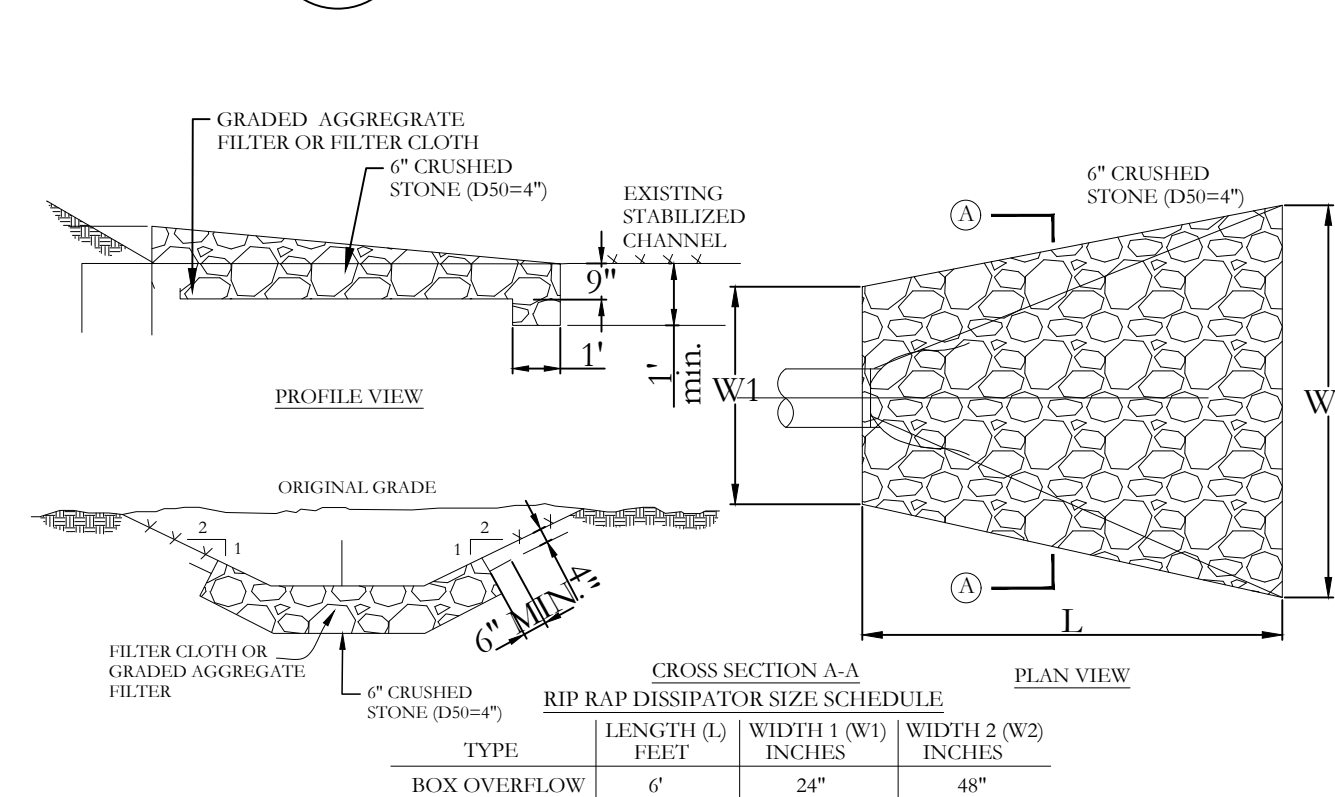
DRYWELL DETAILS
SCALE: NTS



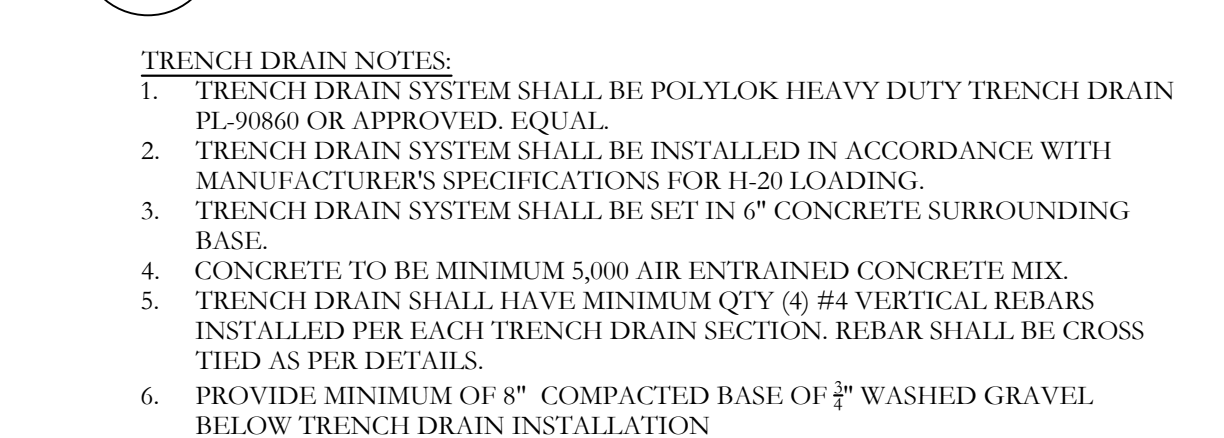
INSPECTION PORT DETAIL
SCALE: NTS



DRYWELL PRETREATMENT DETAIL
SCALE: NTS



TRENCH DRAIN DETAIL
SCALE: NTS



PROPERTY INFORMATION:
PREPARED BY: JMS ENGINEERING SERVICES, PC
PROJECT LOCATION: 49 SARLES STREET
PROJECT TOWN: ARMONK
BUILDING DEPARTMENT: NORTH CASTLE
PROPERTY IDENTIFICATION: 94-03-1-7
OCCUPANCY: SINGLE FAMILY DWELLING
ZONING CODE: R-2A

ISSUE	DATE	BY	CHECKED	APPROVED
0	08/18/2021	JMS	JMS	JMS

SEAL & SIGNATURE:

JOHN M. SCAVELLI PE LICENSE # 095178
JMS ENGINEERING SERVICES, PC

IT IS A VIOLATION OF STATE LAW FOR ANY PERSON UNLESS DIRECTED BY A REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER TO ALTER THIS ITEM IN ANY WAY.

PROJECT:

49 Sarles Street
Armonk, NY 10504

DRAWING TITLE:

SITE IMPROVEMENTS
DETAILS SHEET 6

S -106

NOTES: Rosenman