



SYMBOL	SPECIES AND TREE SIZE
488	Oak 14"
489	Oak 10"
490	Oak 18"
491	Oak 8"
492	Oak 12"
493	Oak 18"
494	Oak 16"
495	Oak 12"
496	Oak 8"
498	Oak 10"
499	Black Birch 6"
501	Oak 10"
502	Oak 18"
509	Oak 14"
513	Oak 10"
515	Maple 10"
516	Oak 12"
518	Oak 16"
531	Oak 14"
824	Cedar 8"
826	Cedar 10"
1028	Oak 10"
1029	Oak 6"
1031	Apple 6"
1033	Twain Black Birch 6"
1034	Maple 8"

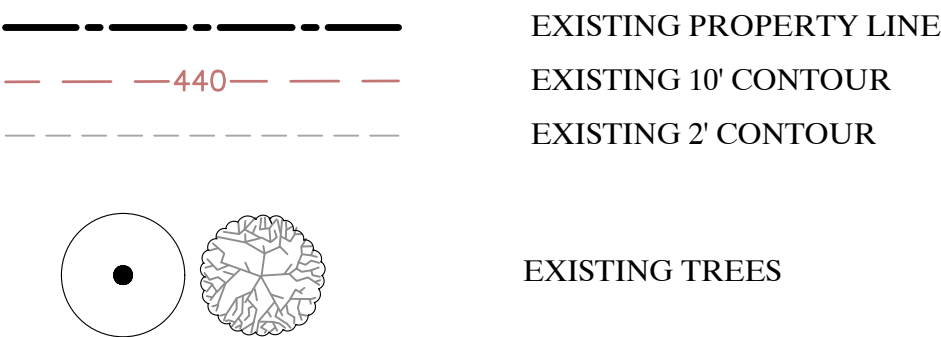


LOCATION MAP  
1" = 500'

## SITE DATA

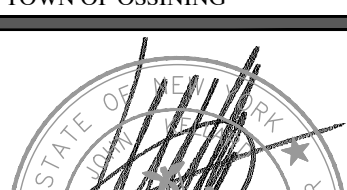
APPLICANT/OWNER:	RALPH MARTINELLI 7 ROOSA LANE OSSINING, NEW YORK 10562
PROPERTY ADDRESS:	1 ROOSA LANE OSSINING, NEW YORK 10562
TAX MAP DESIGNATION:	SECTION 89.08 BLOCK 1 LOT 38.11
TOTAL AREA:	0.35 ACRES (15,361 SF)
ZONING DISTRICT:	TOWN OF OSSINING - R-15

## LEGEND



**GENERAL NOTES:**

1. SURVEY INFORMATION TAKEN FROM SURVEYS PREPARED BY DONNELLY LAND SURVEYING, P.C. 1929 COMMERCE STREET, YORKTOWN HEIGHTS, NEW YORK DATED MAY 28, 2003.
2. SEE THE "TREE REMOVAL AND SCREENING PLAN FOR 1 ROOSA LANE AND 64 HAWKES AVE" LAST REVISED MARCH 13, 2015 PREPARED KELLARD SESSIONS CONSULTING, P.C. FOR THE PROPOSED TREE REMOVAL AND THE PROPOSED LANDSCAPE SCREENING.

<b>KELLARD</b> <b>SESSIONS</b> CONSULTING	<h1 style="margin: 0;">EXISTING CONDITIONS</h1> <h2 style="margin: 0;">1 ROOSA LANE</h2>																						
ENGINEERING, LANDSCAPE ARCHITECTURE & PLANNING, P.C.	<div style="display: flex; justify-content: space-between; border-bottom: 1px solid black; padding-bottom: 5px;"> <span>TOWN OF OSSING</span> <span>WESTCHESTER COUNTY, NEW YORK</span> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 40%; text-align: center;">  </div> <div style="width: 55%; border-top: 1px solid black; border-bottom: 1px solid black; padding: 5px;"> <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 5%; text-align: center;">10.</td><td style="width: 95%;"></td></tr> <tr><td style="text-align: center;">9.</td><td></td></tr> <tr><td style="text-align: center;">8.</td><td></td></tr> <tr><td style="text-align: center;">7.</td><td></td></tr> <tr><td style="text-align: center;">6.</td><td></td></tr> <tr><td style="text-align: center;">5.</td><td></td></tr> <tr><td style="text-align: center;">4.</td><td>JANUARY 08, 2018</td></tr> <tr><td style="text-align: center;">3.</td><td>NOVEMBER 27, 2017</td></tr> <tr><td style="text-align: center;">2.</td><td>MARCH 13, 2015</td></tr> <tr><td style="text-align: center;">1.</td><td>FEBRUARY 13, 2015</td></tr> <tr><td colspan="2" style="text-align: center;">REVISIONS</td></tr> </table> </div> <div style="width: 45%; text-align: center; border: 1px solid black; padding: 10px;"> <div style="font-size: 48px; margin: 0;">1</div> <div style="font-size: 48px; margin: 0;">4</div> <div style="border-top: 1px solid black; padding-top: 5px; margin-top: 10px;">           PROJECT I.D.:  <b>MVL200</b> </div> <div style="border-top: 1px solid black; padding-top: 5px; margin-top: 10px;">           DATE:            JANUARY 20, 2015         </div> </div> </div>	10.		9.		8.		7.		6.		5.		4.	JANUARY 08, 2018	3.	NOVEMBER 27, 2017	2.	MARCH 13, 2015	1.	FEBRUARY 13, 2015	REVISIONS	
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500 MAIN STREET ARMONK, N.Y. 10504 P: (914) 273-2323 F: (914) 273-2329 WWW.KELLES.COM																							



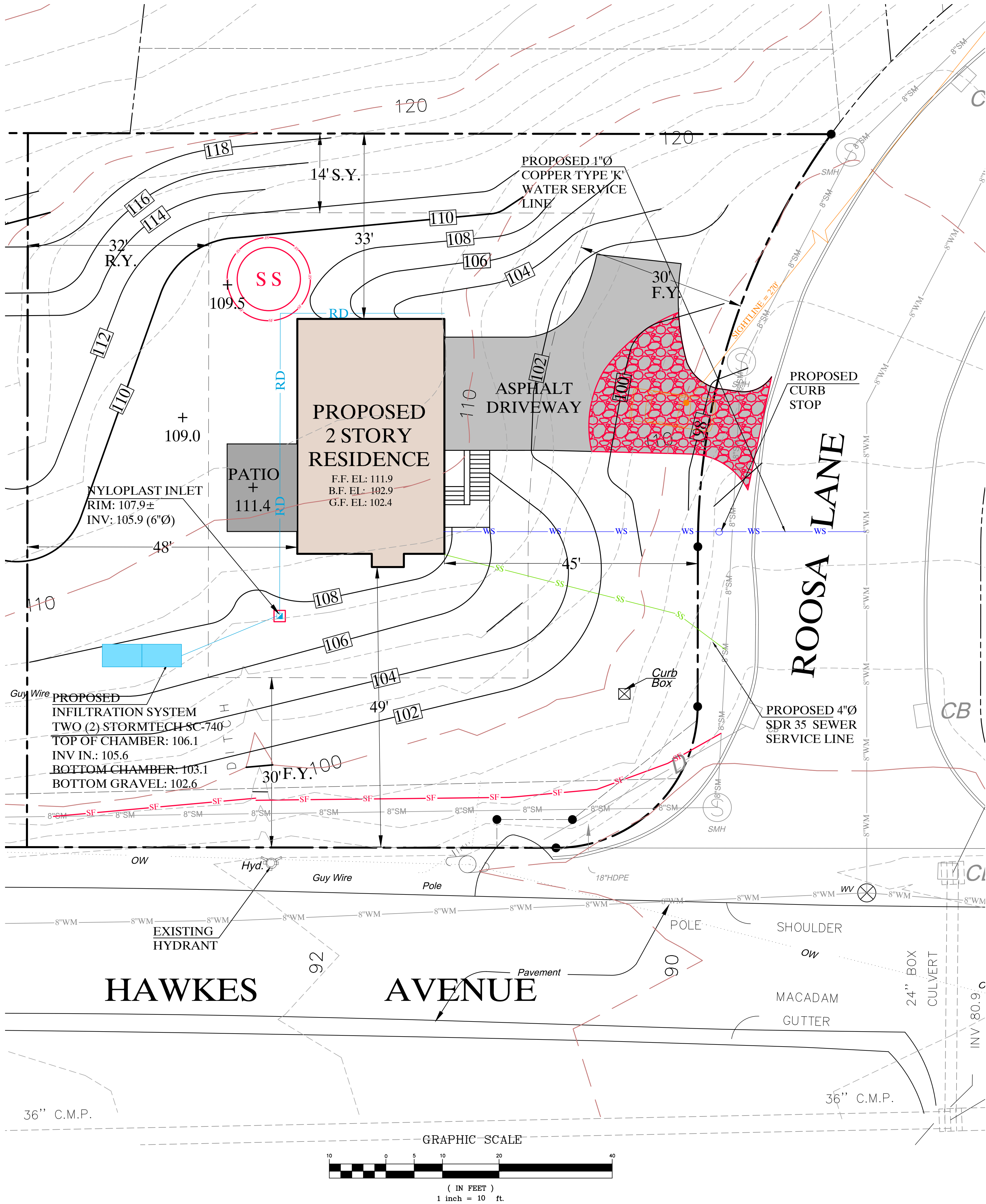
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GENERAL NOTES:

1. SURVEY INFORMATION TAKEN FROM SURVEYS PREPARED BY DONNELLY LAND SURVEYING, P.C. 1929 COMMERCE STREET, YORKTOWN HEIGHTS, NEW YORK DATED MAY 28, 2003.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF THE EXISTING FEATURES DISTURBED UNDER THIS CONTRACT, TO EXISTING CONDITION OR BETTER, AS DETERMINED BY THE ENGINEER.
3. THE TOWN ENGINEER'S OFFICE IS TO BE NOTIFIED 24 HOURS BEFORE COMMENCING SITE CONSTRUCTION.
4. ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE TOWN'S CODE.
5. ALL CONDITIONS, LOCATIONS, AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
6. ALL CHANGES MADE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER AND ANY SUCH CHANGES SHALL BE FILED AS AMENDMENTS TO THE ORIGINAL BUILDING PERMIT.
7. SEE THE ARCHITECTURAL PLANS FOR ALL BUILDING DRAWINGS, DETAILS AND NOTES.
8. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL IN A "CODE 53" AT LEAST 2 DAYS BUT NO MORE THAN 10 DAYS PRIOR TO CONSTRUCTION FOR UNDERGROUND UTILITY LOCATIONS.
10. CONTRACTOR TO VERIFY ALL SUBSTRUCTURES ENCOUNTERED DURING CONSTRUCTION.
11. ANY PROPOSED ELECTRIC AND/OR TELEPHONE, CABLE SERVICE LINES ARE TO BE PLACED UNDERGROUND.
12. THIS LOT SHALL HAVE NO VEHICULAR ACCESS TO OF FROM HAWKES AVENUE AND ITS DRIVEWAY SHALL BE ON ROOSA LANE.
13. SEE THE "TREE REMOVAL AND SCREENING PLAN FOR 1 ROOSA LANE AND 64 HAWKES AVE" LAST REVISED MARCH 13, 2015 PREPARED KELLARD SESSIONS CONSULTING, P.C. FOR THE PROPOSED TREE REMOVAL AND THE PROPOSED LANDSCAPE SCREENING.
14. CONSTRUCTION SHALL COMPLY WITH THE SITE PLAN UNLESS AMENDED BY A FUTURE APPROVAL FROM THE PLANNING BOARD.
15. THIS LOT SHALL HAVE NO VEHICULAR ACCESS TO OR FROM HAWKES AVENUE AND ITS DRIVEWAY SHALL BE ON ROOSA LANE.
16. THE FRONT OF THE HOME SHALL FACE ROOSA LANE UNLESS OTHERWISE APPROVED BY THE PLANNING BOARD.

ZONING (R-15) TABLE - OSSINING		
REGULATION	MIN./MAX. DISTRICT REQUIREMENTS (GB)	PROPOSED
LOT AREA	15,000 SF (MIN)	15,361 SF
LOT WIDTH	90 FEET (MIN)	119 FT
LOT DEPTH	120 FEET (MIN)	126 FT
FRONT YARD SETBACK	30 FEET (MIN)	45 FT
SIDE YARD SETBACK (1)	14 FEET (MIN)	33 FT
BOTH SIDE YARDS	30 FEET (MIN)	N/A*
REAR YARD	32 FEET (MIN)	48 FT
LIVABLE FLOOR AREA	850 SF (MIN)	2,194 SF
BUILDING HEIGHT	2-1/2 STY / 35 FT (MAX)	2.0 STORIES
BUILDING COVERAGE	25% (MAX)	7%
IMPERVIOUS COVERAGE	5,394 SF (MAX)	2,590 SF

\* CORNER LOT



LOCATION MAP  
1" = 500'

SITE DATA

APPLICANT/OWNER: RALPH MARTINELLI  
7 ROOSA LANE  
OSSINING, NEW YORK 10562

PROPERTY ADDRESS: 1 ROOSA LANE  
OSSINING, NEW YORK 10562

TAX MAP DESIGNATION: SECTION 89.08 BLOCK 1 LOT 38.11

TOTAL AREA: 0.35 ACRES (15,361 SF)

ZONING DISTRICT: TOWN OF OSSINING - R-15

LEGEND

- PROPOSED 10' CONTOUR
- PROPOSED 2' CONTOUR
- PROPOSED SPOT ELEVATION
- EXISTING PROPERTY LINE
- EXISTING 10' CONTOUR
- EXISTING 2' CONTOUR
- PROPOSED RESIDENCE
- PROPOSED ASPHALT DRIVEWAY
- PROPOSED DRAIN INLET WITH INLET PROTECTION
- PROPOSED 4" Ø ROOF LEADER
- PROPOSED SILT FENCE
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED SOIL STOCKPILE

**KELLARD SESSIONS**  
CONSULTING

ENGINEERING,  
LANDSCAPE  
ARCHITECTURE  
&  
PLANNING, P.C.

500 MAIN STREET  
ARMONK, N.Y. 10504  
P: (914) 273-2323  
F: (914) 273-2329  
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SITE PLAN  
1 ROOSA LANE

TOWN OF OSSININGWESTCHESTER COUNTY, NEW YORK

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4.	JANUARY 08, 2018	
3.	NOVEMBER 27, 2017	
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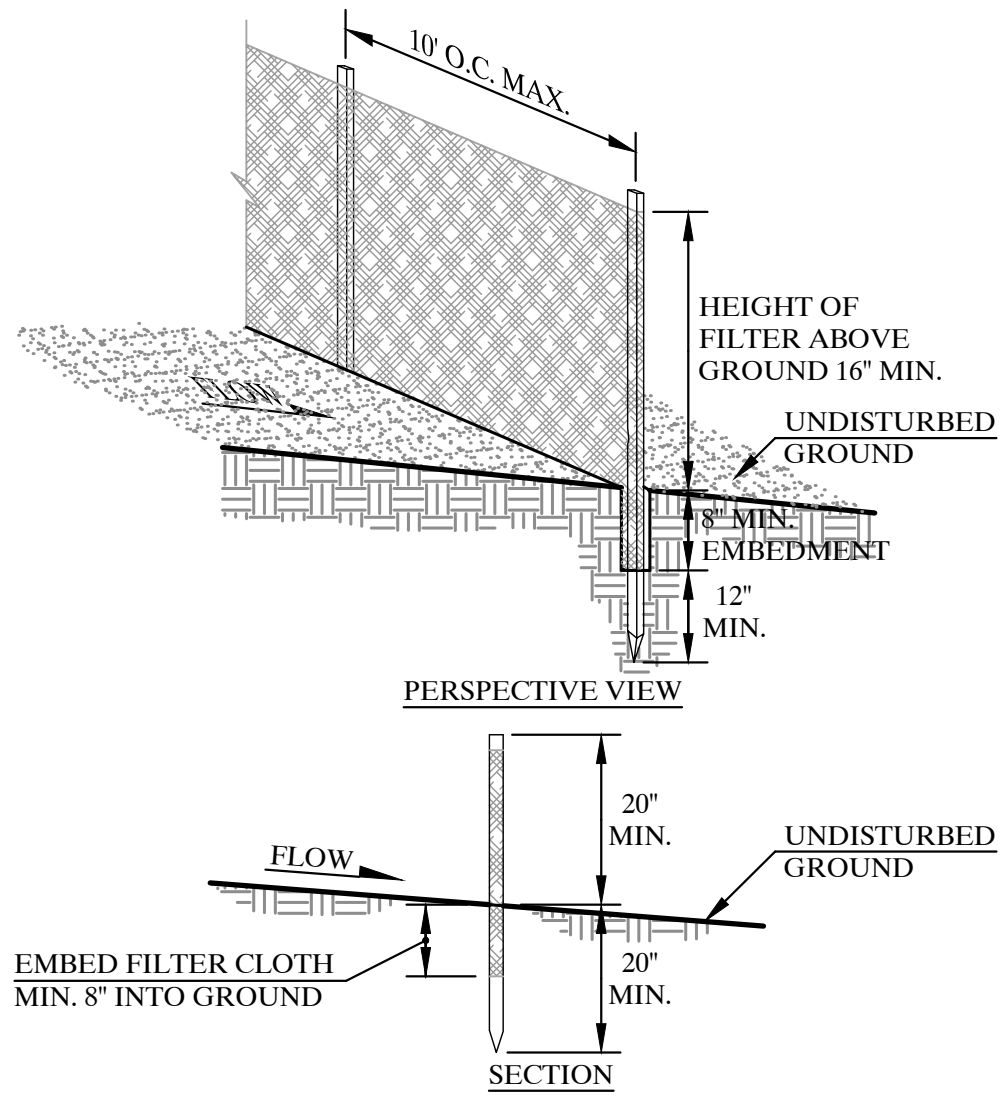
PROJECT I.D.: MVL200  
DATE: JANUARY 20, 2015  
REVISIONS

UNAUTHORIZED ADDITIONS, MODIFICATIONS AND/OR ALTERATIONS TO THESE PLANS IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW



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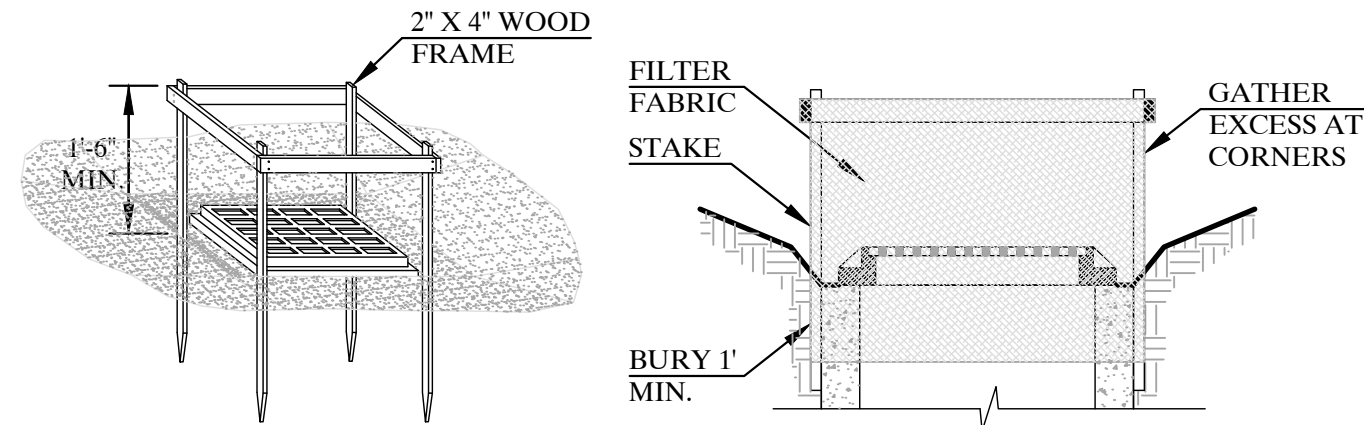
### SILT FENCE DETAIL (N.T.S.)



#### CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- |                                                                                                           |                                                                          |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS AT TOP AND MID SECTION.                                  | POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD                           |
| 2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. | FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUAL |
| 3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. | PRE-FABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL              |

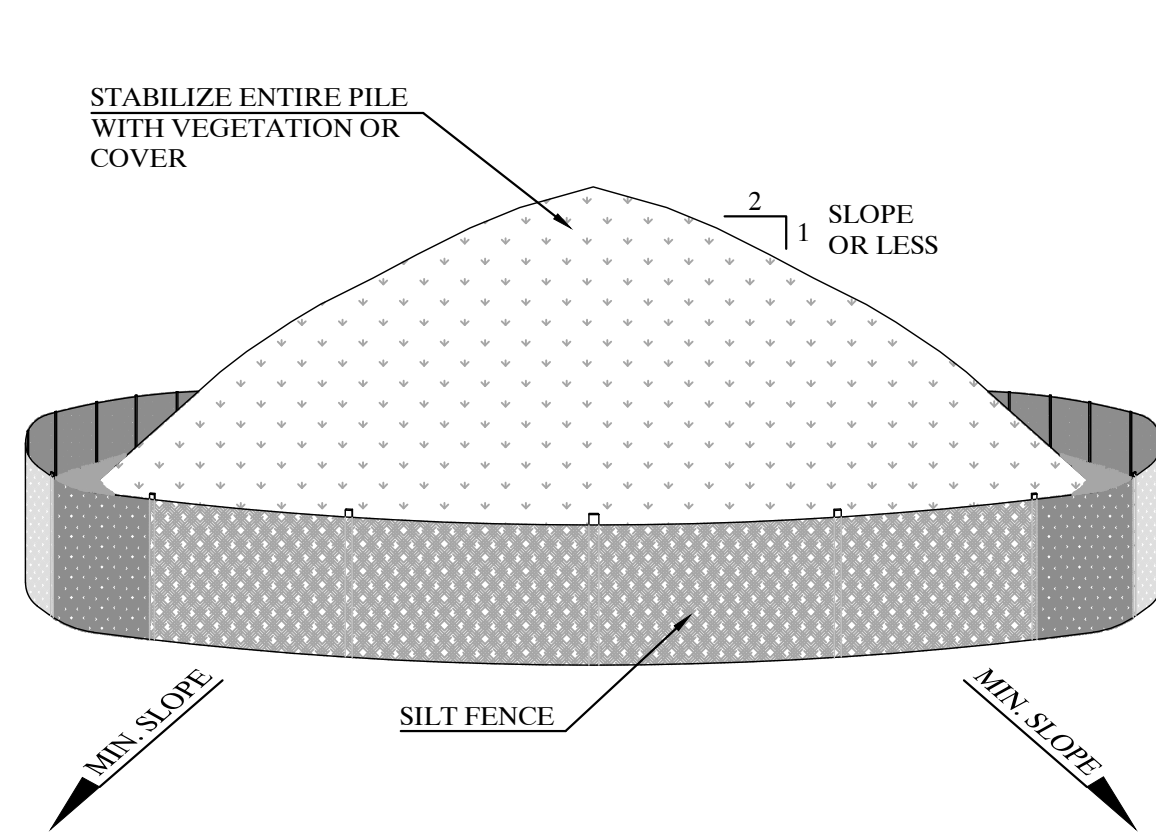
### FILTER FABRIC DROP INLET PROTECTION DETAIL (N.T.S.)



#### CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
  2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
  3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
  4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
  5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
  6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
- MAXIMUM DRAINAGE AREA = 1 ACRE

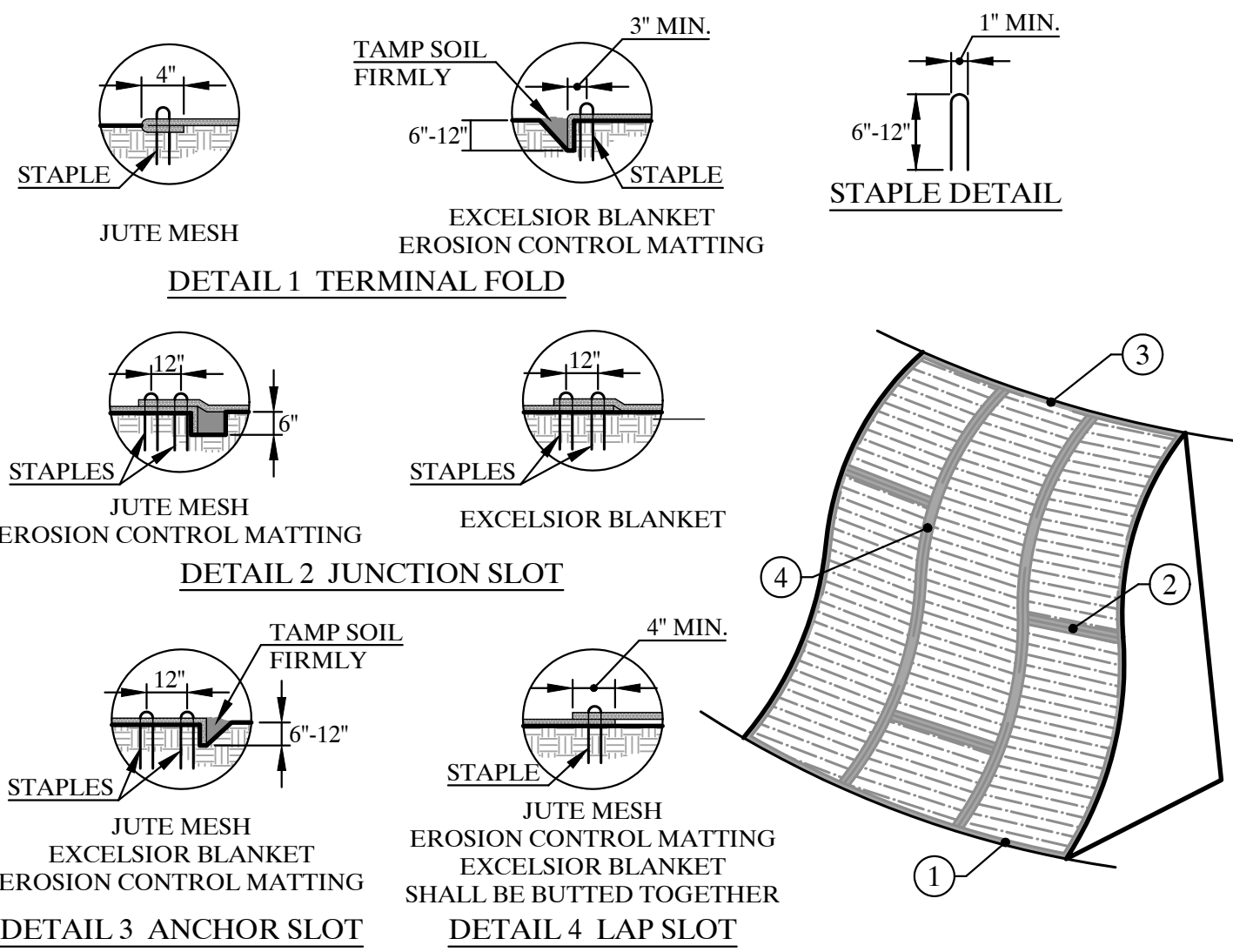
### TEMPORARY SOIL STOCKPILE DETAIL (N.T.S.)



#### INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS FOR INSTALLATION OF SILTFENCE.

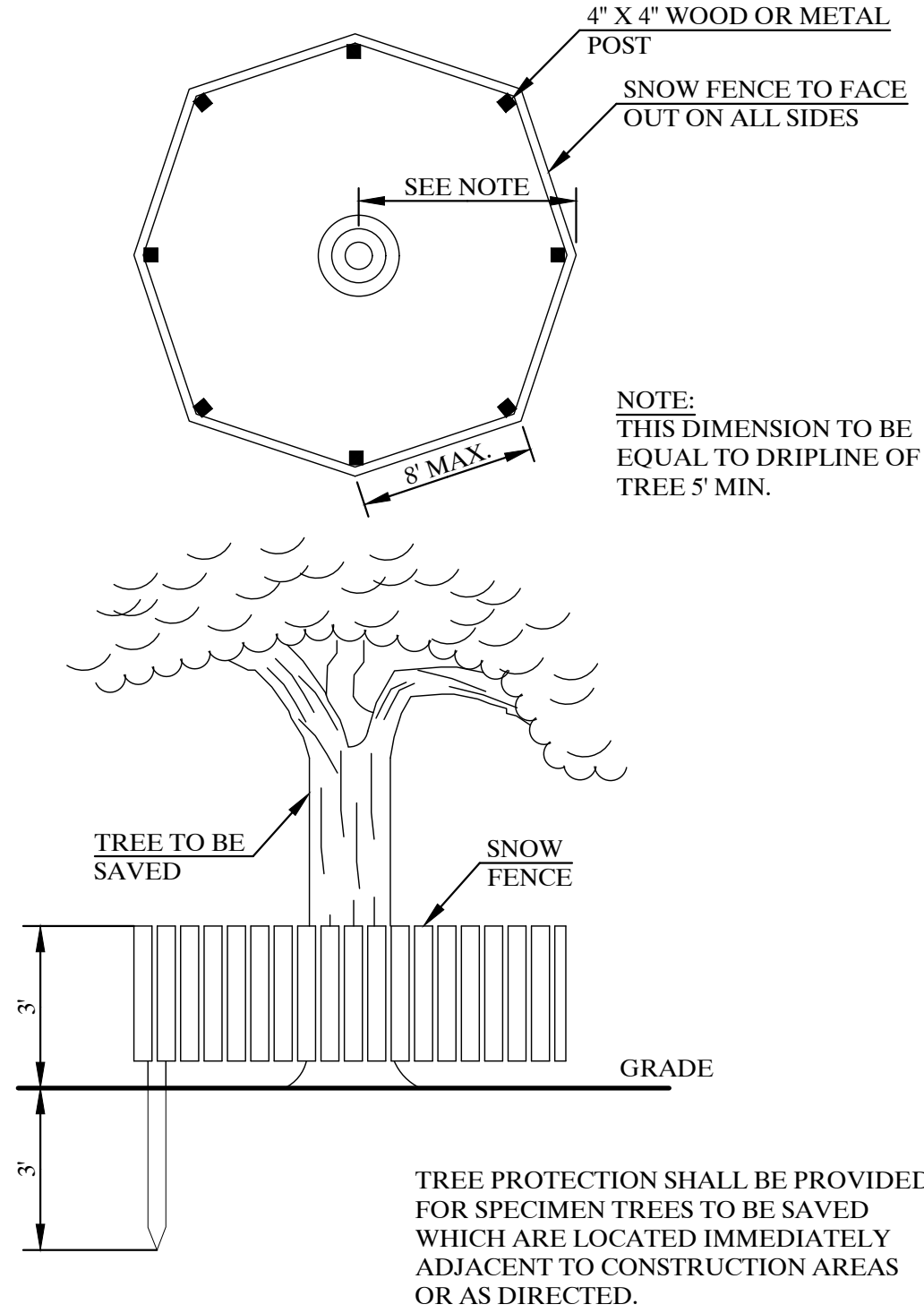
### EROSION CONTROL BLANKET DETAIL (N.T.S.)



#### CONSTRUCTION SPECIFICATIONS

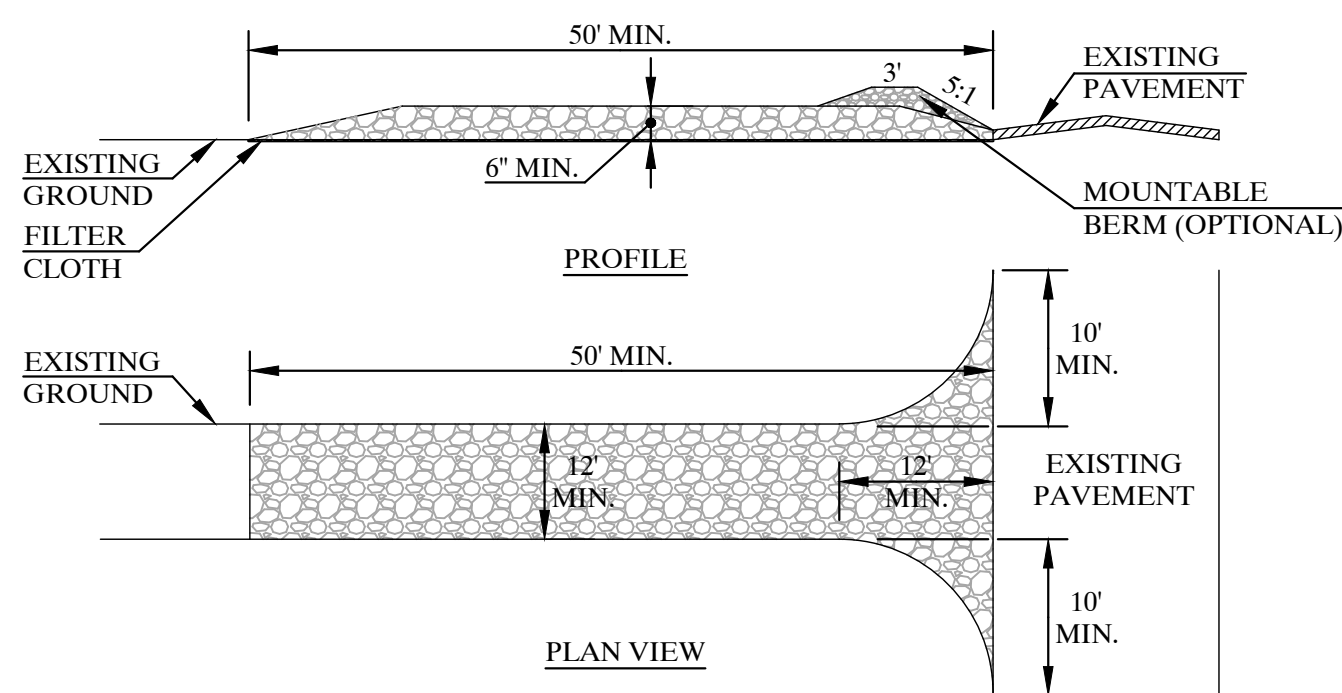
1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME AND SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4' X 225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4' X 150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

### TREE PROTECTION DETAIL (N.T.S.)



TREE PROTECTION SHALL BE PROVIDED FOR SPECIMEN TREES TO BE SAVED WHICH ARE LOCATED IMMEDIATELY ADJACENT TO CONSTRUCTION AREAS OR AS DIRECTED.

### STABILIZED CONSTRUCTION ENTRANCE DETAIL (N.T.S.)



#### CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

#### EROSION AND SEDIMENT CONTROL PLAN

All proposed soil erosion and sediment control practices have been designed in accordance with the following publications:

- New York Standards and Specifications for Erosion and Sediment Control, latest edition
- New York State SPDES General Permit for Stormwater Runoff from Construction Activity (GP-0-15-002)
- Town Code of Ossining Chapter 168 "Stormwater Management and Erosion and Sediment Control"

The primary aim of the soil erosion and sediment control plan is to reduce soil erosion from areas stripped of vegetation during and after construction and to prevent silt from reaching the drainage structures, infiltration systems and downstream properties. The infiltration systems will not be put into service until the contributing drainage areas to the system have been stabilized. As outlined in the construction sequencing notes below and on the Sediment & Erosion Control Plan, the Sediment & Erosion Control Plan is an integral component of the construction phasing and sequencing and will be implemented to control sediment and re-establish vegetation as soon as practicable. The plan will be implemented prior to the commencement of any earthmoving activities.

The proposed soil erosion and sediment control devices include the planned erosion control practices outlined below. Maintenance procedures for each erosion control practice are also provided herein. The owner or operator must ensure that all erosion and sediment control practices identified herein are maintained in effective operating condition at all times.

#### STABILIZED CONSTRUCTION ENTRANCE

A stabilized construction entrance shall be installed at the project entrance as indicated on the plans. The purpose of the stabilized construction entrance is to prevent vehicles leaving the site from tracking sediment, mud or any other construction-related materials from the site onto the driveway and ultimately Roosa Lane.

#### Maintenance/Inspection

The Contractor shall maintain the construction entrance in a manner which prevents or significantly reduces the tracking of sediment/soil onto the driveway and ultimately Roosa Lane. The Contractor shall inspect the construction entrance daily and after each rain event for displacement or loss of aggregate. The Contractor shall top-dress the construction entrance when displacement/loss of aggregate occurs, or if the aggregate becomes clogged or silted to the extent that the entrance can no longer perform its intended function. The Contractor shall inspect the vicinity of the construction entrance several times a day and immediately remove any sediment dropped or washed onto the driveway and/or Roosa Lane.

#### SILT FENCE

Silt fence (geotextile filter cloth) shall be placed in locations depicted on the approved plans. The purpose of the silt fence is to reduce the velocity of sediment-laden stormwater from small drainage areas and to intercept the transported sediment load. In general, silt fence shall be used at the perimeter of disturbed areas, toe of slopes or immediately within slopes where obvious channel concentration of stormwater is not present. Silt fence shall always be installed parallel to the contours in order to prevent concentrated flows from developing along the silt fence.

#### Maintenance/Inspection

Silt fencing shall be inspected at a minimum of every seven (7) days. Inspections shall include ensuring that the fence material is tightly secured to the wood posts and the fabric shall be secure and the fabric shall be maintained a minimum of eight (8) inches below grade. In the event that any "bulges" develop in the fence, that section of fence shall be replaced immediately with a new fence section. Any visible sediment build-up against the fence shall be removed and deposited on-site a minimum of 100 feet from any wetland.

#### INLET PROTECTION

After the project's drain inlets have been installed and the site is completely constructed and stabilized, these drain inlets will receive stormwater from the driveway and overland watersheds. The inlet protection barrier will allow stormwater to be filtered prior to reaching the inlet grate.

#### Maintenance/Inspection

Inlet protection devices shall be inspected at a minimum of every seven (7) days. Care shall be taken to ensure that all inlet protection devices are properly located and secure and do not become displaced. Any accumulated sediments shall be removed from the device and deposited not less than 100 feet from a wetland.

#### SOIL/MATERIAL STOCKPILING

All soil/material stripped from the construction area during grubbing and grading shall be stockpiled in locations illustrated on the approved plans, or in practical locations on-site.

#### Maintenance/Inspection

All stockpiles shall be inspected (for signs of erosion or problems with seed establishment) at a minimum of once every seven (7) days. Soil stockpiles shall be protected from erosion by vegetating the stockpile with a rapidly-germinating grass seed and surrounded with either silt fence or staked weed-free haybales. In the non-growing season, the stockpiles shall be protected by a tarpaulin covering the entire stockpile.

#### SURFACE STABILIZATION

All disturbed areas will be protected from erosion with the use of vegetative measures (e.g., grass seed mix, sod) hydromulch, weed-free hay or Curlex Excelsior Erosion Control Blankets.

Erosion control barriers consisting of silt fencing shall be placed around exposed areas during construction. Any areas stripped of vegetation during construction will be vegetated and/or mulched to prevent erosion of the exposed soils. In site areas where significant erosion potential exists (steep slopes/slopes exceeding 2:1) and/or where specifically directed, Curlex Excelsior Erosion Control Blankets (Manufactured by American Excelsior or approved equal) shall be installed. Mulch is also used alone for temporary stabilization in non-growing months.

Materials that may be used for mulching include weed-free straw/ hay/salt hay, wood fiber, synthetic soil stabilizers, mulch netting, erosion control blankets or sod. A permanent vegetative cover will be established upon completion of construction of those areas which have been brought to finish grade and to remain undisturbed.

#### GENERAL LAND GRADING

The applicant or their representatives shall be on-site at all times when construction or grading activity takes place and shall inspect and document the effectiveness of all sediment and erosion control practices.

The intent of the erosion controls is to control all disturbed areas, such that soils are protected from erosion by temporary methods and, ultimately by permanent vegetation. All cut and fill slopes shall be kept to a maximum slope of 2:1. In the event that a slope must exceed a 2:1 slope, it shall be stabilized with stone rip-rap. On fill slopes, all material will be placed in layers not to exceed 9 inches in depth and adequately compacted. Where practicable, diversion swales shall be constructed on the top of all fill embankments to divert any overland flows away from the fill slope.

#### DUST CONTROL

Where vegetative or mulch cover is not practicable in disturbed areas of the site, dust shall be controlled by the use of water sprinkling. The surface shall be sprayed until wet. Dust control shall continue until such time as the entire site is adequately stabilized with permanent vegetative cover.

#### POLLUTION PREVENTION MEASURES FOR CONSTRUCTION RELATED ACTIVITIES

Pollution prevention practices for preventing litter, construction chemicals (if applicable) and construction debris from becoming a pollutant source in stormwater discharge includes daily pickup of construction debris, inspection, designated storage areas, and physical controls such as silt fencing and inlet protection. Inspections will also be conducted to ensure that dust control measures are utilized as necessary. During construction, maintenance, construction and waste materials will be stored within suitable areas/dumpsters, as appropriate, to minimize the exposure of the materials to stormwater and spill prevention. All maintenance and construction waste will be disposed of in a safe manner in accordance with all applicable regulations.

**KELLARD  
SESSIONS**  
CONSULTING

ENGINEERING,  
LANDSCAPE  
ARCHITECTURE  
&  
PLANNING, P.C.

500 MAIN STREET  
ARMONK, N.Y. 10504

P: (914) 273-2323  
F: (914) 273-2329

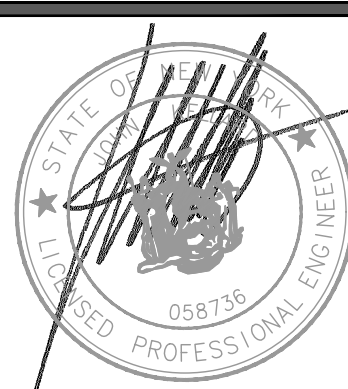
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## EROSION & SEDIMENT CONTROL DETAILS/NOTES

### 1 ROOSA LANE

TOWN OF OSSINING

WESTCHESTER COUNTY, NEW YORK



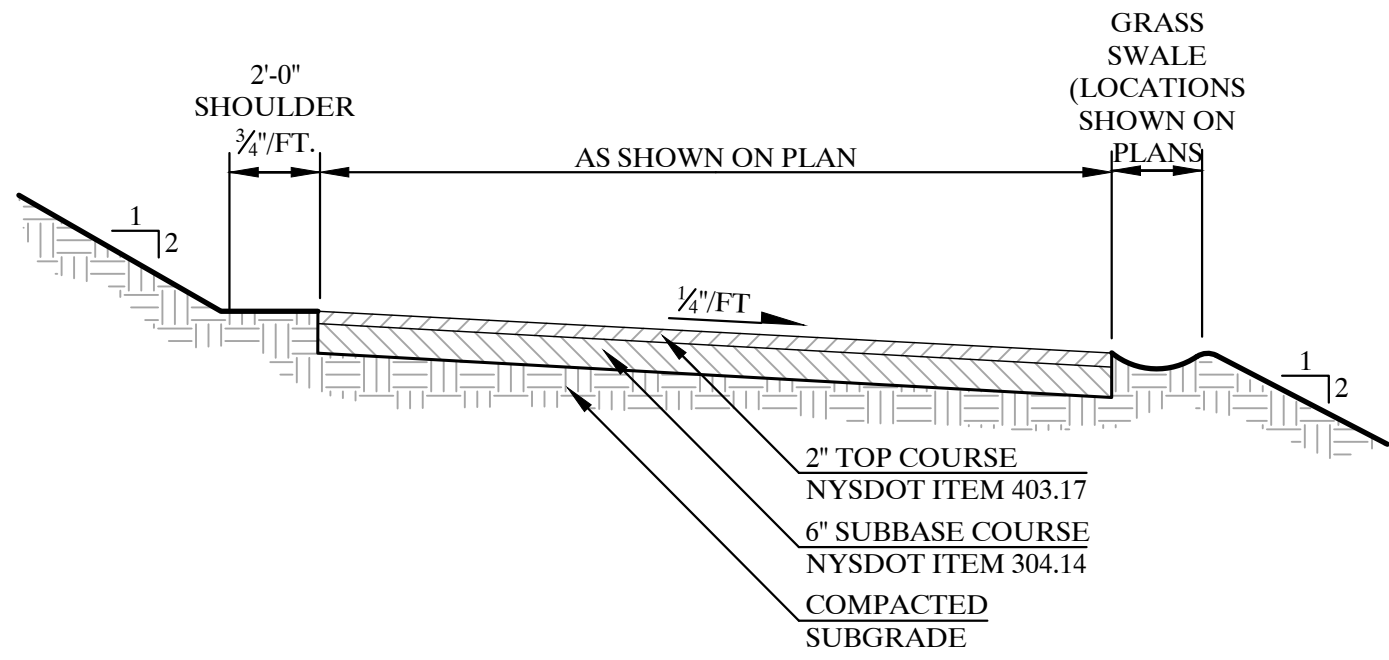
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2.	MARCH 13, 2015
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REVISIONS	

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PROJECT I.D.:	
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DATE:	
JANUARY 20, 2015	

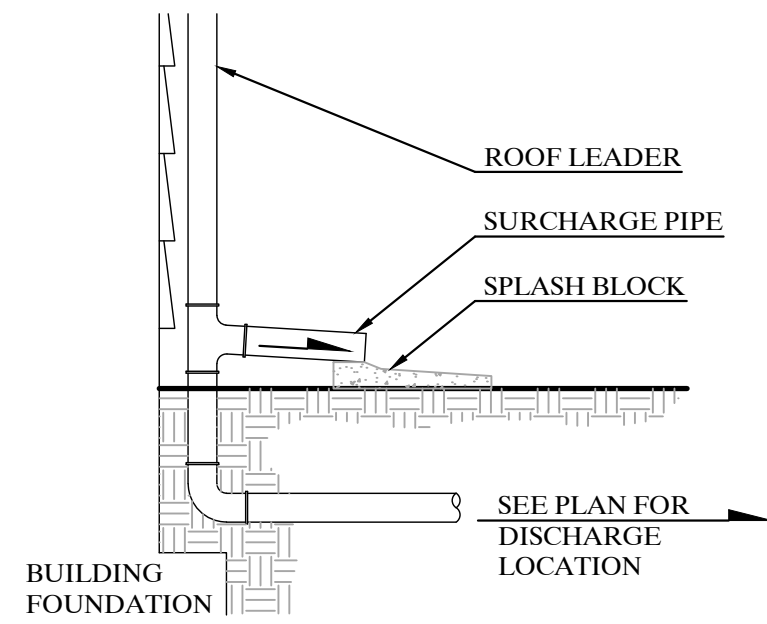
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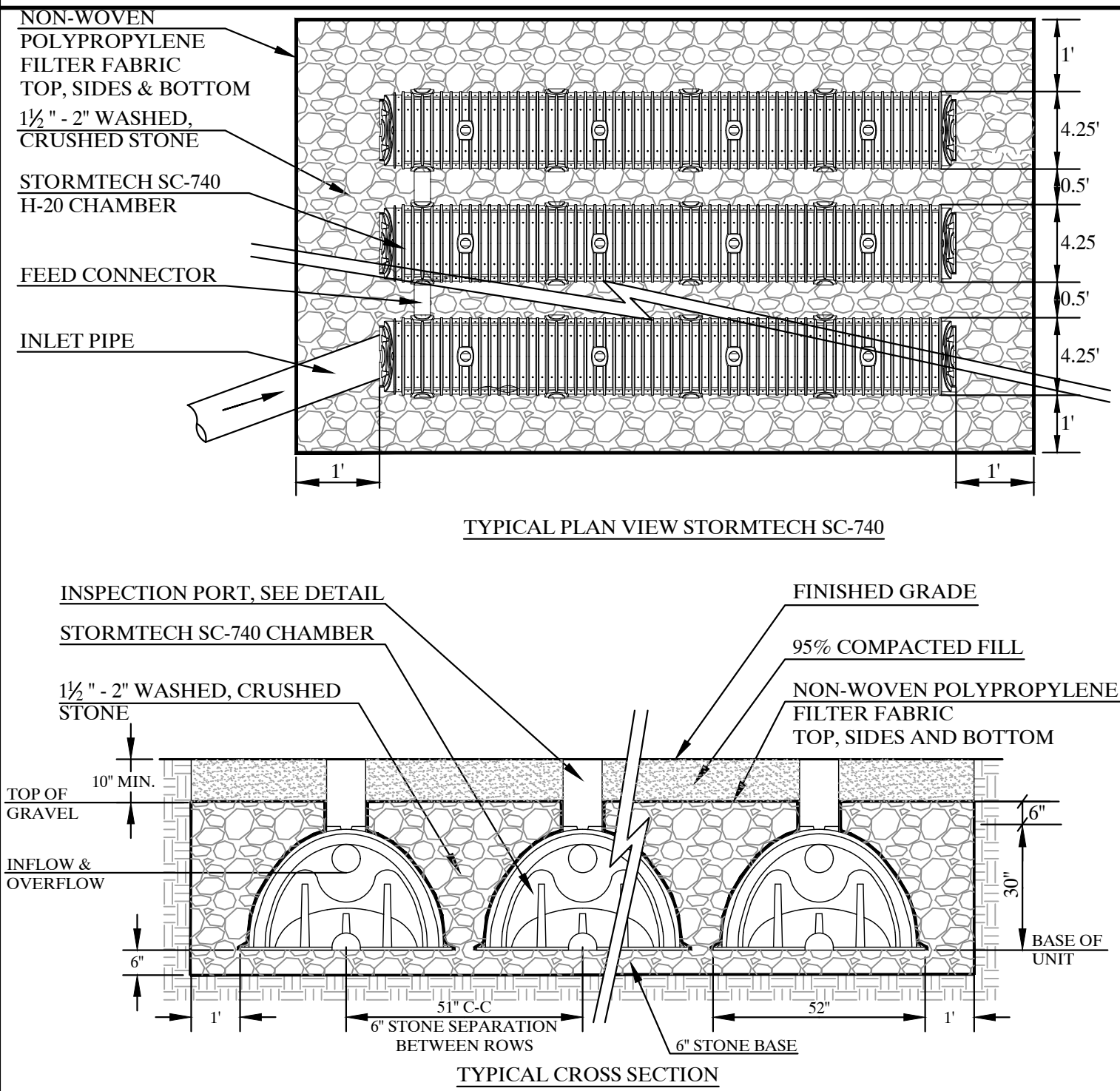
### DRIVEWAY SECTION DETAIL (N.T.S.)



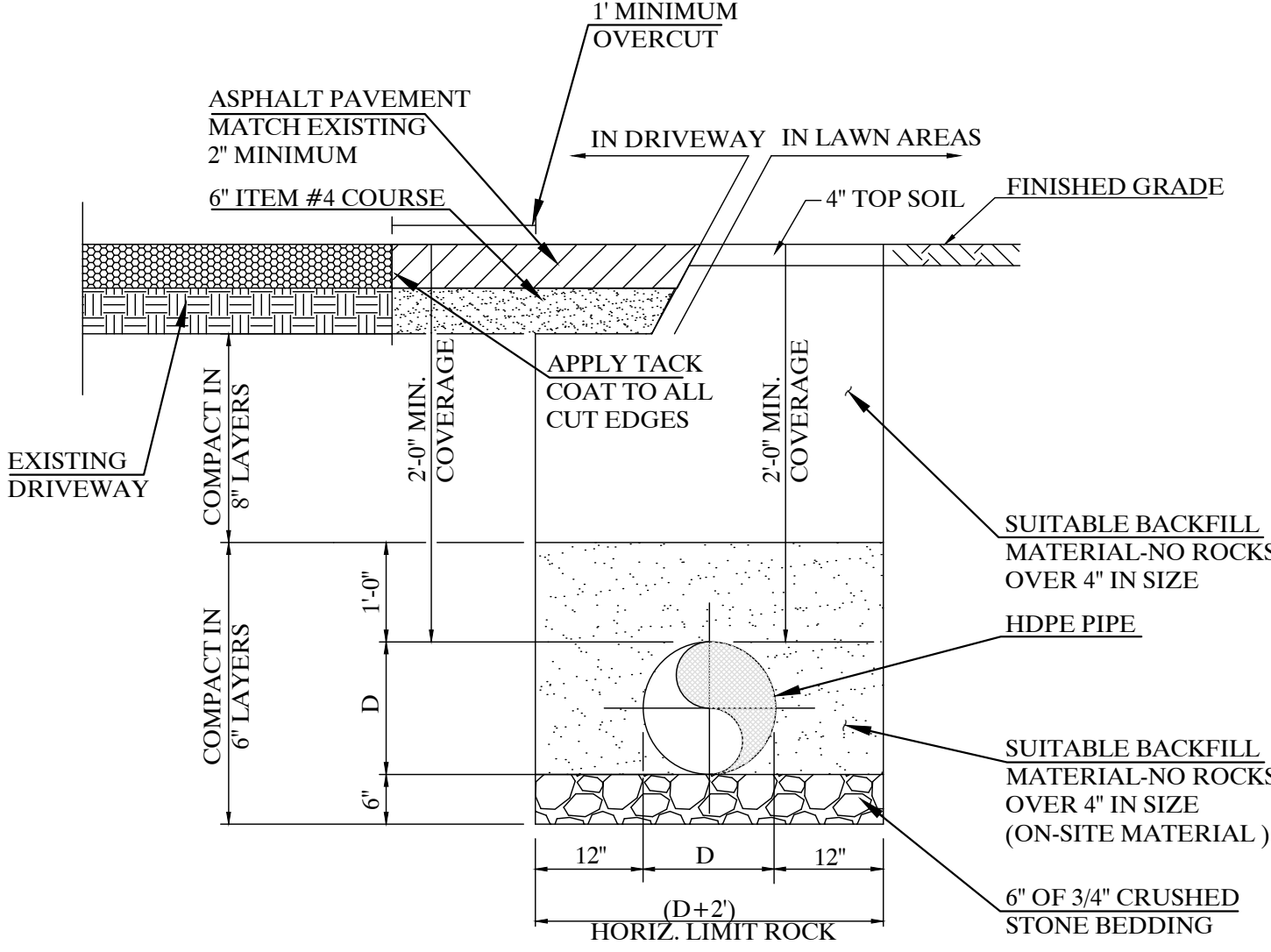
### ROOF LEADER DETAIL (N.T.S.)



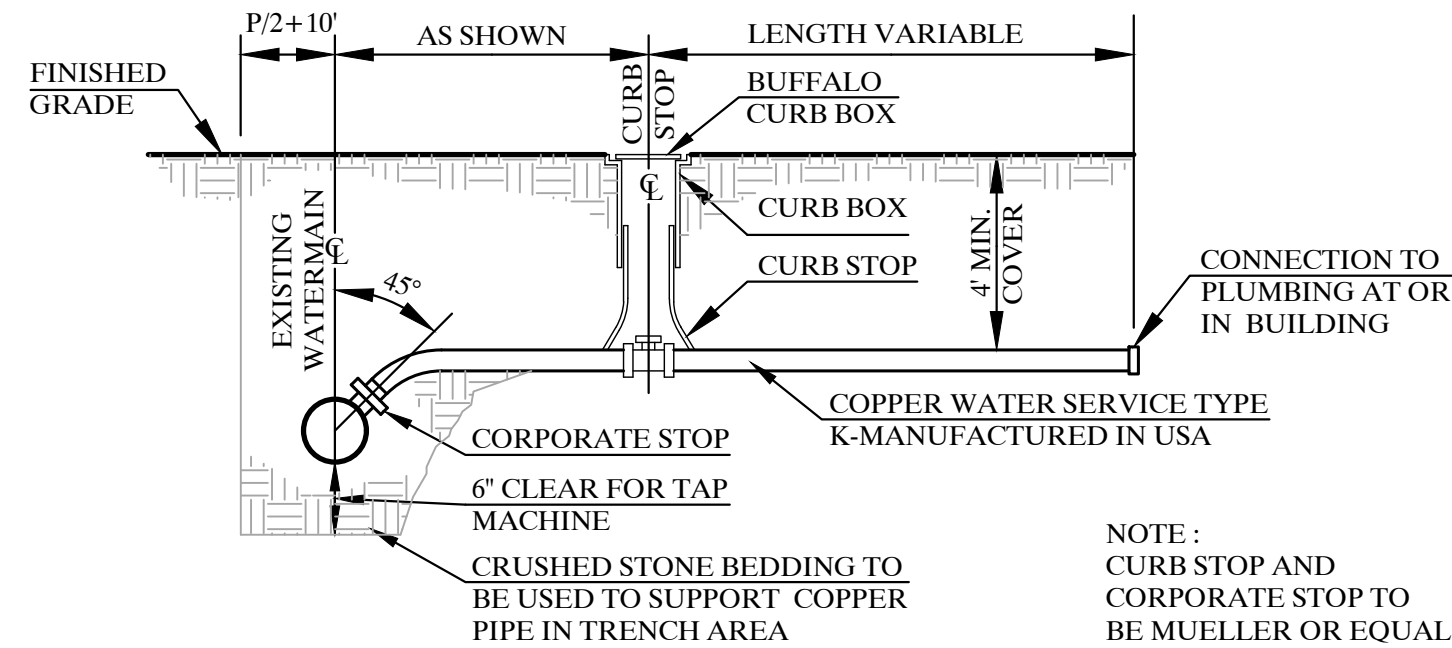
### UNDERGROUND INFILTRATION SYSTEM (N.T.S.)



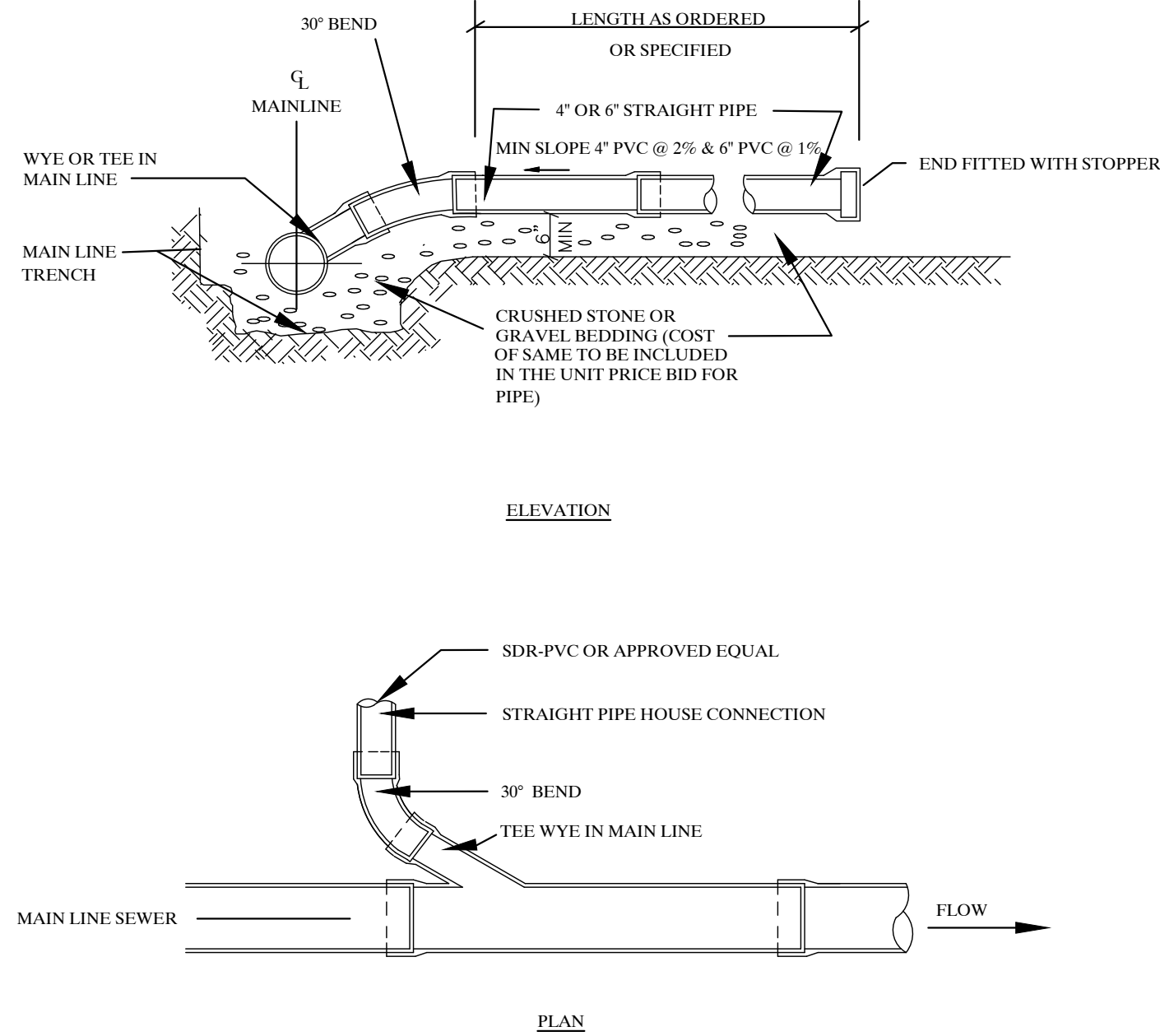
### PIPE TRENCH DETAIL (N.T.S.)



### WATER SERVICE BUILDING CONNECTION DETAIL (N.T.S.)



### HOUSE SEWER CONNECTION AT GRADE (NTS)



### INFILTRATION SIZING CALCULATIONS

#### Required Storage Volume (Vs)

Provide storage volume for increase in runoff for up to the 25 year design storm due to the proposed improvements (house, patio and driveway).

Drainage Area = 2,590 s.f.  
25-year, 24-hour rainfall = 6.0 in.  
Existing Vr = 2.81 in.  
Proposed Vr = 3.78 in.  
 $\Delta Vr = 0.97$  in.  
 $Vs = \Delta Vr \times \text{Area} = (0.97 \text{ in./12 in./ft.}) (2,590 \text{ s.f.})$   
 $Vs = 209 \text{ c.f.}$

#### Area of Percolation (Ap)

$Ap = Ac + Ab$   
Surface Area:  
 $Ac = \pi D^2 h$   
 $= (3.14)(12 \text{ in./12 in./ft.})(10 \text{ in./12 in./ft.})$   
 $Ac = 2.62 \text{ s.f.}$   
Bottom Area:  
 $Ab = \pi D^2/4$   
 $= (3.14)(12 \text{ in./12 in./ft.})^2/4$   
 $Ab = 0.785 \text{ s.f.}$

$Ap = Ac + Ab$   
 $= 2.62 \text{ s.f.} + 0.785 \text{ s.f.}$   
 $Ap = 3.41 \text{ s.f.}$

#### Volume of Percolation (Vp)\*

$Vp = Ab \times \text{DROP}$   
 $= (0.785 \text{ s.f.})(1 \text{ in./12 in./ft.})$   
 $Vp = 0.065 \text{ c.f.}$

#### Soil Percolation Rate (Sr)

$Sr = \text{volume/area} \times T$   
 $= 0.065 \text{ c.f.}/3.41 \text{ s.f.}/30 \text{ min.}$   
 $Sr = (0.00064 \text{ c.f./s.f./min.})$

OR

$= (0.00064 \text{ c.f./s.f./min.})(60 \text{ min.})(24 \text{ hr.})$   
 $= 0.92 \text{ c.f./s.f./day} \times 25\% \text{ (clogging factor)}$   
 $= 0.92 \text{ c.f./s.f./day} \times 0.25 \text{ (clogging factor)}$   
 $Sr = 0.69 \text{ c.f./s.f./day} *$

\*Percolation rate was interpreted from soil mapping. Percolation rate shall be field verified prior to construction.

#### Size Infiltrators

Volume provided in Stormtech SC-740 unit = 74.9 c.f./unit

2 units =  $74.9 \text{ c.f./unit} \times 2 \text{ units}$   
 $= 149.8 \text{ c.f.}$

Total Bed Width = 6.25 ft.  
Total Bed Length = 14 ft.  
Total Bed Area = 87.5 c.f.  
Height of Stone = 36 in. = 3.0 ft.  
Volume of Stone Voids =  $[(87.4 \text{ s.f.} \times 3.0 \text{ ft.}) - 149.8 \text{ c.f.}] \times 40\% \text{ voids}$   
 $= 45.0 \text{ c.f.}$

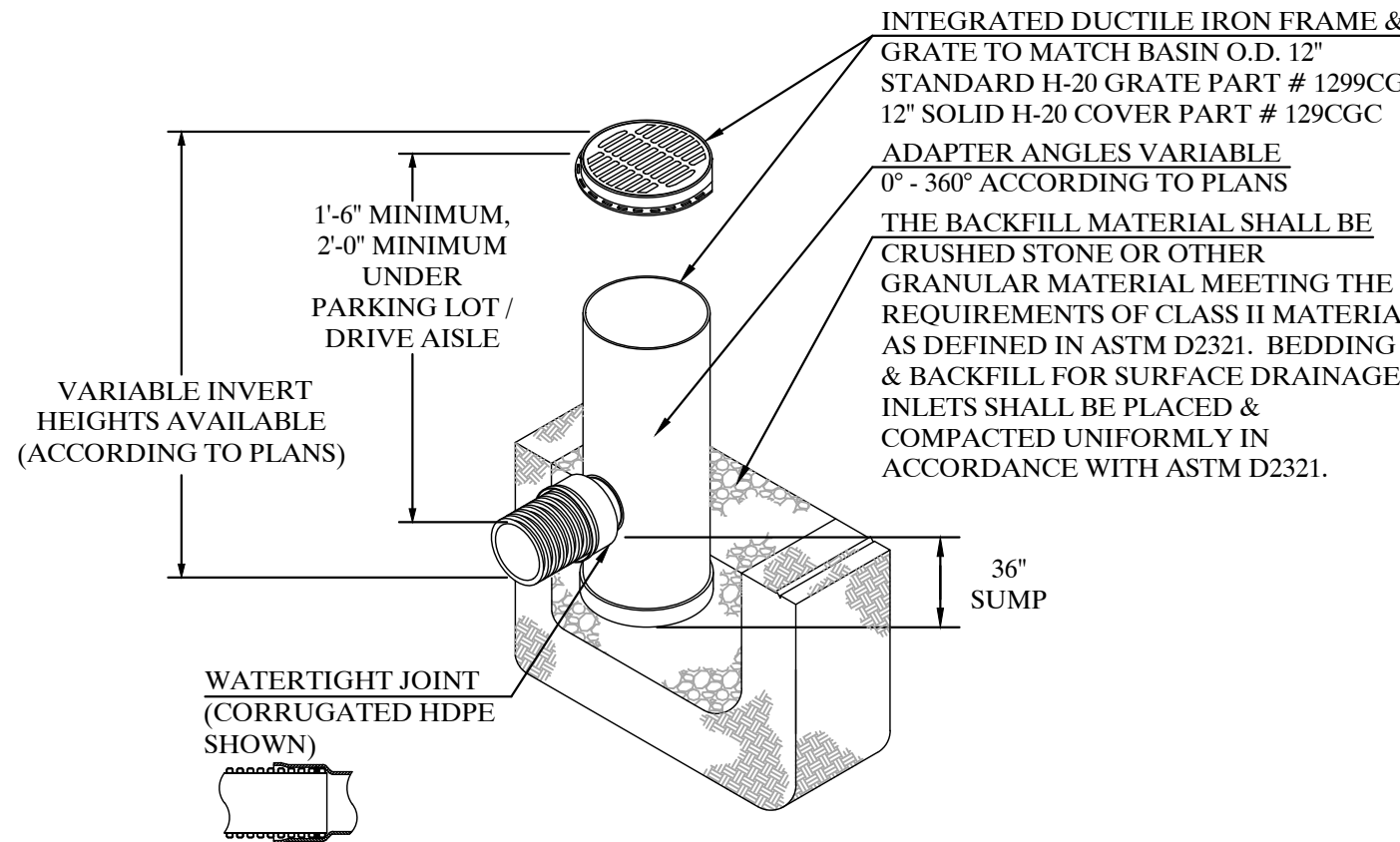
Volume of Stone and Culvert Units  
 $= 149.8 \text{ c.f.} + 45.0 \text{ c.f.}$   
 $= 194.8 \text{ c.f.}$

Volume of Percolation  
 $= \text{Total Bed Area} \times Sr$   
 $= 87.5 \text{ s.f.} \times 0.69 \text{ c.f./s.f./day}$   
 $= 60.4 \text{ c.f./day}$

Total Volume Provided  
 $= 194.8 \text{ c.f.} + 60.4 \text{ c.f.}$   
 $= 255.2 \text{ c.f.}$

Total Volume Required  
 $= 209 \text{ c.f.}$

### NYOPLAST DRAINAGE BASIN DETAIL (N.T.S.)



NYOPLAST DRAINAGE BASIN DETAIL  
MODEL # 2812AG MANUFACTURED BY  
NYOPLAST OR APPROVED EQUAL.

**KELLARD  
SESSIONS**  
CONSULTING

ENGINEERING,  
LANDSCAPE  
ARCHITECTURE  
&  
PLANNING, P.C.

500 MAIN STREET  
ARMONK, N.Y. 10504  
P: (914) 273-2323  
F: (914) 273-2329

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### DETAILS

### 1 ROOSA LANE

TOWN OF OSSING

WESTCHESTER COUNTY, NEW YORK



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4.	JANUARY 08, 2018	
3.	NOVEMBER 27, 2017	
2.	MARCH 13, 2015	
1.	FEBRUARY 13, 2015	
REVISIONS		PROJECT I.D.: MVL200
		DATE: JANUARY 20, 2015

UNAUTHORIZED ADDITIONS, MODIFICATIONS AND/OR ALTERATIONS TO THESE PLANS IS A VIOLATION OF SECTION 2709(2) OF THE NEW YORK STATE EDUCATION LAW



64 HAWKES AVE TREE REMOVAL

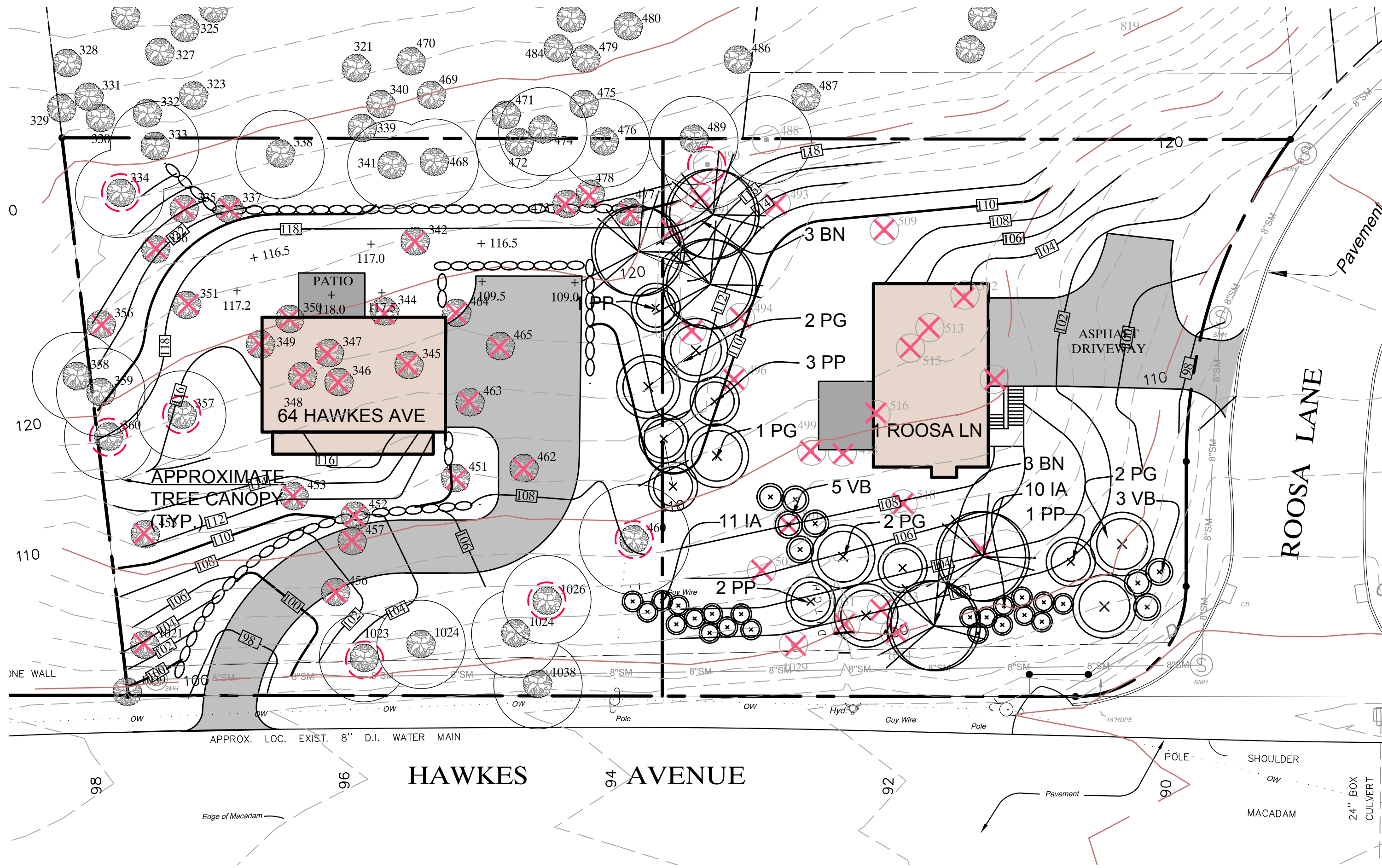
NUMBER	SPECIES AND TREE SIZE	X= REMOVED
330	Poplar 12"	
333	Poplar 14"	
334	Poplar 12"	
335	Poplar 12"	X
336	Poplar 12"	X
337	Oak 14"	X
338	Oak 24"	
339	Maple 8"	
341	Poplar 10"	
342	Oak 24"	X
344	Cedar 10"	X
345	Maple 6"	X
346	Maple 8"	X
347	Maple 6"	X
348	Oak 10"	X
349	Oak 14"	X
350	Cedar 10"	X
351	Cedar 10"	X
356	Oak 14"	X
357	Ash 10"	X
358	Oak 10"	
359	Ash 10"	
360	Apple 12"	
451	Cedar 10"	X
452	Cedar 12"	X
453	Black Birch 8"	X
455	Apple 10"	X
456	Cedar 12"	X
457	Twin Cedar 10"	X
460	Oak 28"	
462	Oak 8"	X
463	Maple 6"	X
464	Cedar 14"	X
465	Maple 10"	X
468	Cedar 12"	
472	Oak 12"	
473	Oak 16"	X
477	Oak 14"	X
478	Oak 8"	X
1021	Black Birch 10"	X
1023	Oak 16"	
1024	Maple 8"	
1025	Apple 6"	
1026	Oak 36"	
1028	Oak 6"	
1038	Maple 10"	
1039	Apple 18"	

28 TREES TO BE REMOVED

1 ROOSA LN TREE REMOVAL

SYMBOL	SPECIES AND TREE SIZE	X = REMOVED
488	Oak 14"	
489	Oak 10"	
490	Oak 18"	
491	Oak 8"	X
492	Oak 12"	X
493	Oak 18"	X
494	Oak 16"	X
495	Oak 12"	X
496	Oak 8"	X
498	Oak 10"	X
499	Black Birch 6"	X
501	Oak 10"	X
502	Oak 18"	X
509	Oak 14"	X
513	Oak 10"	X
515	Maple 10"	X
516	Oak 12"	X
518	Oak 16"	X
531	Oak 14"	
824	Cedar 8"	X
826	Cedar 10"	
1028	Oak 6"	
1029	Oak 10"	X
1031	Apple 6"	X
1033	Twin Black Birch 6"	X
1034	Maple 8"	X

20 TREES TO BE REMOVED



GENERAL NOTES:

1. ULTIMATE SPACING AND LOCATION OF PROPOSED TREES / SHRUBS SHALL BE DETERMINED BY THE LANDSCAPE ARCHITECT IN THE FIELD FOLLOWING CONSTRUCTION OF OFFICE BUILDING AND PARKING LOT.
2. LANDSCAPE ARCHITECT SHALL HAVE THE OPTION FOR PLANT SUBSTITUTION DEPENDING UPON ACTUAL SITE CONDITIONS ENCOUNTERED (i.e. BEDROCK DEPTH, SUN EXPOSURE/ ANGLE, ETC.)
3. RAISED PLANTING BEDS (i.e. BERMS) MAYBE REQUIRED FOR PLANTING AREAS WITH SHALLOW BEDROCK DEPTH.
4. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES PRIOR TO STARTING WORK. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING PAVEMENTS, UTILITIES, STRUCTURES, ETC. TO REMAIN AND SHALL REPAIR AND/OR REPLACE ANY SUCH DAMAGE AT HIS EXPENSE.
5. THE CONTRACTOR SHALL PROVIDE A 12" MINIMUM DEPTH OF TOPSOIL FOR ALL PLANTING BEDS.
6. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SCHEDULE PROVIDED WITHIN THIS SITE PLAN PACKAGE. A MINIMUM OF 50% OF PLANTS PROVIDED SHALL BE THE LARGER END OF THE SIZE RANGE.
7. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL PLANTS SHALL HAVE NORMAL, WELL-DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS AND BE NURSERY-GROWN.
8. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE DESIGN ENGINEER (IF APPLICABLE).
9. UNLESS SPECIFIED OTHERWISE BY THE LANDSCAPE ARCHITECT, ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
10. ALL PLANTS SHALL BE BALLED AND WRAPPED AS SPECIFIED. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING.
11. NO SUBSTITUTIONS FOR PLANT MATERIAL TYPE OR SIZE WILL BE ALLOWED UNLESS SUCH SUBSTITUTION HAS BEEN APPROVED BY THE LANDSCAPE ARCHITECT.
12. ALL PLANT MATERIAL SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND BY THE LANDSCAPE ARCHITECT TO BE IN AN UNHEALTHY CONDITION. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
13. THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE LANDSCAPE ARCHITECT. FOLLOWING PLANTING, ALL TREES AND SHRUBS ARE SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT.
14. A MINIMUM OF FOUR (4) INCHES (DEPTH) OF PREMIUM DARK BROWN BARK MULCH SHALL BE PLACED AROUND ROOT BALLS OF TREES/SHRUBS. THE MULCH AREA SHALL BE AT LEAST TWO TIMES THE DIAMETER OF THE PLANT CONTAINER OR ROOT BALL.
15. ALL PLANTS AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL REMOVE STAKES AFTER ONE FULL GROWING SEASON.
16. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTING PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
17. ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT WITHIN 24 HOURS AFTER PLANTING. IN ADDITION, ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT AT THE BEGINNING OF THEIR FIRST WINTER.
18. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY, IF NECESSARY, DURING THE FIRST GROWING SEASON.
19. ALL EXISTING TREES / SHRUBS SHALL BE INSPECTED FOR VINES. ALL VINES SHALL BE CUT AND, WHERE PRACTICABLE, REMOVED FROM THE TREE / SHRUB.

LEGEND



EXISTING TREE MARKED FOR REMOVAL UNDER HAWKES HILL SUBDIVISION APPROVAL IN 2002. TO BE REMOVED AS PART OF THIS APPLICATION



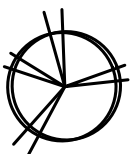
EXISTING TREE TO REMAIN UNDER THIS CURRENT APPLICATION.



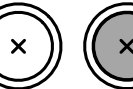
EXISTING TREE TO BE REMOVED UNDER THIS CURRENT APPLICATION



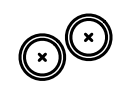
EXISTING TREE TO REMAIN UNDER THIS CURRENT APPLICATION. TO BE PROTECTED DURING CONSTRUCTION



PROPOSED DECIDUOUS TREE



PROPOSED CONIFEROUS TREE



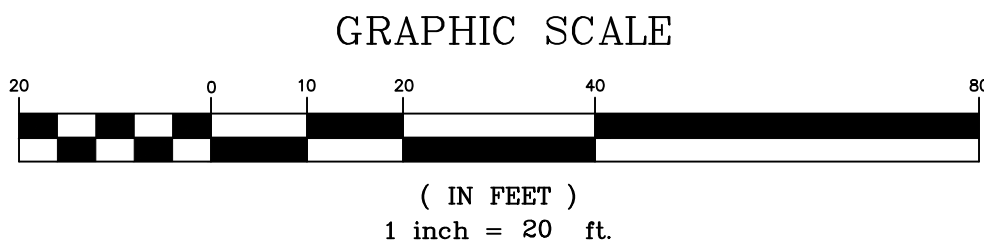
PROPOSED SHRUBS

EXISTING TREE NOTE:

1. EXISTING TREE INFORMATION TAKEN FROM THE APPROVED SUBDIVISION PLANS ENTITLED HAWKES HILL SUBDIVISION, HAWKES AVENUE, TOWN OF OSSINING\* LAST REVISED APRIL 28, 2002 PREPARED BY AGOSTINO PASE, P.E. NATALINO M. IACIELI CONSULTING ENGINEER & ASSOCIATES.

PROPOSED PLANTING SCHEDULE

1 ROOSA LANE & 64 HAWKES AVE PLANTING SCHEDULE					
PLANTING SCHEDULE					
Symbol	Botanical Name	Common Name	Size	Root	Quantity
TREES					
BN	<i>Betula Nigra "Cully"</i>	Heritage River Birch	12' - 14' ht.	B&B	5
EVERGREEN TREES					
PG	<i>Picea Glauca</i>	White Spruce	7' - 8' ht.	B&B	7
PP	<i>Picea pungens "Fat Albert"</i>	Colorado Blue Spruce	8' - 9' ht.	B&B	7
SHRUBS					
VB	<i>Viburnum Burkwoodii</i>	Burkwood Viburnum	4' - 5' ht.	B&B	8
IA	<i>Ilex x aquipernyi</i>	Dragon Lady Holly	5' - 6' ht.	B&B	21



**KELLARD SESSIONS**  
CONSULTING

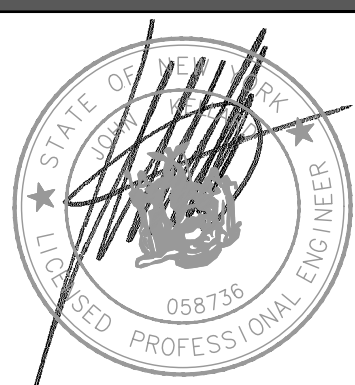
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TREE REMOVAL & SCREENING PLAN

64 HAWKES AVE & 1 ROOSA LANE



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