







PLAN NOTES

1. The applicant shall provide an As-Built Plan of the stormwater management system (for all stormwater features including, but not limited to, locations of stormwater infrastructure, invert/rim elevations, pipe locations and sizes, final grading, etc.) certified by the Engineer of Record, prior to the issuance of the Certificate of Occupancy. The As-Built Plan shall also include the final maintenance schedule for the stormwater management features.

STORMWATER PRACTICE (CULTEC C-4HD CHAMBERS)

Chamber Field Designation	FIELD A	FIELD B	FIELD C	FIELD D	FIELD E	FIELD F	FIELD G	FIELD H
Existing Grade at Field Designation	17.60	17.50	17.50	17.30	17.20	17.00	16.80	16.70
Rock Elevation at Field	12.35	12.25	12.25	12.05	11.95	11.75	11.55	11.45
Invert of Stone below Chambers	16.10	16.00	16.00	15.75	15.75	15.50	15.25	15.25
Bottom of Chambers	16.60	16.50	16.50	16.25	16.25	16.00	15.75	15.75
Top of Chambers	17.31	17.21	17.21	16.96	16.96	16.71	16.46	16.46
Top of Stone	17.81	17.71	17.71	17.46	17.46	17.21	16.96	16.96
Finished Grade	18.56	18.46	18.46	18.21	18.21	17.96	17.71	17.71

Height of Stone below Chambers to Outlet (in feet)	1.15	1.25	1.25	1.50	1.50	1.75	2.00	2.00
Height of Stone below Chambers to Outlet (in inches)	13.80	15.00	15.00	18.00	18.00	21.00	24.00	24.00
Storage Volume in Chambers at Outlet (c.f.)	38	40	40	45	47.5	51.7	51.7	

Total Storage in Chambers to Elevation of Outlet (cu feet) = 365.6  
Infiltration Volume (cu feet) = 206.2  
TOTAL VOLUME CAPTURED AND TREATED (cu feet) = 571.8  
Compare to WQv = 490.5

STORM PIPE TABLE

STRUCTURE			Q - FLOW (CFS)		PIPE PARAMETERS										Invert Upper	Invert Lower	Top/Rim Elev.
Upper	Lower	"r"	Design q	Capacity Q	Manning's "n"	Size (in)	Actual Vel fts	Velocity Full fts	Slope %	Length (ft)	Fall (ft)						
TD-1	KEY 5	7.79	0.08	5.75	0.012	8	5.2	16.5	19.33	3.0	0.58	32.08	31.50	33.75			
KEY 5	KEY 6	7.79	0.12	4.51	0.012	8	4.8	12.9	11.89	22.0	2.62	31.50	28.88	32.00			
KEY 6	CB A-4	7.79	0.18	4.24	0.012	8	4.6	12.1	10.49	41.0	4.30	28.88	24.58	30.90			
CB A-4	CB A-3	7.79	0.38	5.12	0.012	8	6.6	14.7	15.32	31.0	4.75	24.58	19.83	26.50			
CB A-3	CB A-2	7.79	0.49	3.13	0.012	8	6.1	9.0	5.72	10.2	0.58	19.83	19.25	22.75			
CB A-2	KEY 2	7.79	0.49	1.64	0.012	8	4.0	4.7	1.57	54.0	0.85	19.25	18.40	20.60			
KEY 2	KEY 3	7.79	0.49	2.93	0.012	8	5.7	8.4	5.00	2.0	0.10	18.40	18.30	20.00			
KEY 3	CB A-1	7.79	0.57	1.91	0.012	8	4.5	5.5	2.13	25.8	0.55	18.30	17.75	20.00			
CB A-1	PTF PT-1	7.79	0.57	3.13	0.012	8	6.4	9.0	5.71	3.5	0.20	17.75	17.55	21.10			
PTF PT-1	CB L-1	7.79	0.57	1.71	0.012	8	4.2	4.9	1.70	17.8	0.30	17.55	17.00	20.00			
CB L-1	Chambers	7.79	0.57	3.11	0.012	8	6.4	8.9	5.67	3.0	0.17	17.00	16.83	18.60			
RDL-1	CB A-3	7.79	0.04	1.39	0.010	4	6.0	16.0	31.67	5.0	1.58	21.17	19.58	22.50			
RDL-2	CB A-4	7.79	0.04	1.24	0.010	4	5.3	14.2	25.00	5.0	1.25	26.17	24.92	27.50			
RDL-3	KEY 6	7.79	0.06	0.59	0.010	4	3.6	6.7	5.67	5.0	0.28	29.17	28.88	30.50			
RDL-4	KEY 5	7.79	0.04	1.19	0.010	4	5.1	13.7	23.33	5.0	1.17	32.67	31.50	34.00			
RDL-5	CB A-3	7.79	0.04	0.33	0.010	4	2.3	3.8	1.79	16.0	0.29	20.77	20.48	22.10			
RDL-6	KEY 1	7.79	0.02	0.35	0.010	4	1.8	4.0	2.01	53.0	1.07	22.67	21.60	24.00			
RDL-7	KEY 3	7.79	0.08	0.87	0.010	4	5.3	10.0	12.33	5.0	0.62	21.37	20.75	22.70			
RDL-8	KEY 4	7.79	0.04	0.75	0.010	4	3.9	8.6	9.17	4.0	0.37	21.37	21.00	22.70			
RDL-9	KEY 4	7.79	0.08	1.18	0.010	4	6.1	13.5	22.70	47.0	10.67	31.67	21.00	33.00			
KEY 1	KEY 2	7.79	0.02	0.88	0.012	4	3.7	10.1	18.26	15.7	2.87	21.60	18.73	22.80			
KEY 4	CB A-1	7.79	0.13	1.44	0.012	4	8.7	16.5	48.61	6.0	2.92	21.00	18.08	22.70			

LEGEND

- PROPERTY LINE  
EXISTING TOPOGRAPHY  
PROPOSED SPOT ELEVATION  
PROPOSED CONTOUR  
PROPOSED CATCH BASIN  
PROPOSED STORM PIPE  
PROPOSED STORM KEY NODE  
EXISTING TREE  
EXISTING TREE TO BE REMOVED  
WETLAND LINE  
WETLAND BUFFER LINE  
TREE PROTECTION FENCING

CONSULTANTS:

PROJECT ARCHITECT:

Jaclyn Tyler, AIA  
Nexus Creative Design  
Architecture Planning & Design  
100 White Plains Road  
Tarrytown, NY 10591

Tel: (914) 740 - 4774 | (914) 204 - 6404

ISSUED:

Rev. as per comment from Village and consultants	12/29/2021
Rev. as per results of deep hole and percolation testing	05/27/2022
Re-submission to Planning Board	09/19/2022
Rev. as per HCZM and Village consulting Engineer comments	10/24/2022
Rev. as per HCZM and Village consulting Engineer comments	11/15/2022
Rev. as per HCZM and Village consulting Engineer comments	11/28/2022
Rev. as per HCZM and Village consulting Engineer comments	12/14/2022
Rev. as per Ping Bd and Village consulting Engineer comments	01/16/2023
Rev. as per Ping Bd and Village consulting Engineer comments	03/08/2023
NYSDEC Adjacent Area Extent using NGVD 1929	03/26/2023

OWNERSHIP AND USE OF DOCUMENTS

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

No part of these drawings shall be copied, disclosed to others or used in connection with any work or project other than for which they have been prepared without the express written consent of the licensed professional who prepared the document.

SEAL:



PROJECT NAME:  
**D'ARCANGELO PROPERTY**  
921 Soundview Drive  
Village of Mamaroneck, New York

ENGINEER & LANDSCAPE ARCHITECT:  
**ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC**

P.O. Box 843 Ridgefield, CT 06877  
Direct Tel: (475) 215-5343 Cell (203) 710-0587

Drawing Title:

**Grading and Utilities Plan**

Date: October 18, 2021

Dwn. by: alp

ID: 921 Soundview\_Site\_03-26-2023

**C-102**

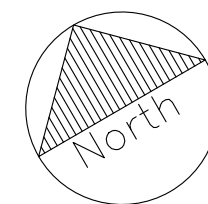
Civil Engineer:

Alan L. Pich  
ALP Engineering & Landscape Architecture, PLLC  
P.O. Box 843, Ridgefield, CT 06877  
162 Falls Road, Bethany, CT 06804  
P.E. #80167  
C. of A. #0016331  
Tel: (475) 215-5343

GRAPHIC SCALE



( IN FEET )  
1 inch = 10 ft.





CONSTRUCTION SEQUENCE NARRATIVE

All erosion and sedimentation control measures and procedures shall comply with the New York State Department of Environmental Conservation publication Standards and Specifications for Erosion and Sediment Control, latest edition. Erosion control measures shall be installed prior to the start of construction and maintained in effective condition throughout the construction period.

Land disturbance shall be kept to a minimum. Restabilization shall be scheduled as soon as practicable.

Notify all appropriate authorities (i.e., Village of Mamaroneck Building Department - Telephone: 914-777-7731 and the Engineering Department - Telephone 914-777-7787) at least 48 hours prior to the commencement of site work.

Verify all existing underground and overhead utilities prior to any construction activity by calling Dig Safely New York (dial 811 or on the internet at <http://www.digsafelyny.com/>) and conducting one's own due diligence.

All erosion control measures shall be installed prior to any construction activity, and periodically monitored throughout all phases of construction for proper function and structural integrity. Perform maintenance and repairs as necessary.

The construction sequence is as follows:

- 1) Identify Disturbance Limits - Identify the limits of the areas to be disturbed within the property in accordance with the drawings. The limits of disturbance may be referenced on drawing C-103.
- 2) Install Construction Fence/Tree Protection Fence where indicated on the plans to protect existing trees to remain and prevent compaction of soils. Take care to ensure that for trees to remain, the roots below the drip line are not compacted.
- 3) Install the Erosion and Sediment Control Measures - In accordance with the plans, install:
  - Silt fence in the locations shown on the drawings and installed as per the instructions of the manufacturer and as shown on the construction details.

- Construction materials storage area shall be set up where indicated on the drawings. The construction materials storage area shall be encompassed with a construction fence as a containment.
- Construction Fencing and Tree Protection - where indicated on the plans.

Silt fence is to be installed along perimeter of construction area as shown on the drawings. Silt fence shall be installed, in general, parallel to the contour. Where one length of silt fence ends and another begins, provide a minimum 10 foot overlap. Additional silt fence may be placed in the field at the discretion of representatives of the approving authorities. Silt fence shall be maintained in operable condition and shall not be removed until disturbed areas are thoroughly stabilized.

- 4) Building Materials - for the new house and pool to be constructed, the building materials shall be temporarily stored in the Construction Materials storage area depicted on the plans.
- 5) Footing, Foundation and Building Pad Preparation - Following the installation of the soil erosion and sediment controls measures and demolition, prepare the building pad area for the construction of the new house. Stockpile soil and soil/rock removed during excavation and protect the stockpile in the location(s) shown on the drawings and in accordance with the detail. Fence in an area for trash and waste to prevent it from being blown and washed to neighboring properties, into Otter Creek or to the street (see drawing C-103).
- 6) House and Pool Construction - Construct the house, pool, pool deck and all other site improvements in accordance with the architect's plans.
- 7) Install Stormwater Management and Drainage Facilities - Storm drainage systems are installed from the lowest to highest elevations.

Construct the stormwater management facility to consist of the subsurface chamber practices. Install the chambers in accordance with the construction details. **The chambers must be inspected by the project engineer prior to stone backfill.** Install the catch basins, pre-treatment facilities and trench drain. Set the storm drainage pipes at the elevations specified on the plans at each structure. Connect the house roof drain leaders to the structures and/or storm drainage pipes specified on drawing C-102.

**Do not permit runoff to enter the subsurface chambers until such time as the ground surface that drains to them have achieved final stabilization.**

- 8) Prepare the Disturbed Area for Final Stabilization and Planting - Clean up all residual site debris and litter and prepare all disturbed areas not to be hard surfaced for topsoiling and seeding and/or planting. All disturbed areas are to be seeded with the permanent grass seed mix noted in the specifications.
- 9) Restore the permeability of the soil by following the Soil Restoration steps in accordance with the New York State Stormwater Management Design Manual, as follows:
  - Apply 3 inches of compost over subsoil.
  - Till compost into subsoil to a depth of at least 12 inches using a cat-mounted ripper, tractor-mounted disc, or tiller, mixing, and circulating air and compost into subsoils.
  - Rock-pick until uplifted stone/rock materials of four inches and larger size are cleaned off the site.
  - Apply topsoil to a depth of 6 inches.
  - Vegetate as required by approved plan.
  - Provide straw mulch cover over seeded areas.
- 10) Driveway Installation - Remove the soil and stabilized construction entrance for the driveway. Install the subbase and bituminous pavement courses to the elevations specified on the plans.
- 11) Remove the erosion control measures only after full vegetative stabilization occurs on the site.

EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE

Silt Fence: Maintenance shall be performed as needed and material removed when bulges develop in the silt fence. Inspection for physical damage to the silt fence material shall be made during the weekly inspection. If filter fabric shows signs of decomposing or is damaged, it shall be repaired immediately. Typically, this entails installing a new line of silt fence adjacent to the damaged line.

Tree Protection: Check on at least a weekly basis that the construction fence and/or tree protection has not been damaged by construction activities.

Soil Stockpiling: Perimeter sediment controls around each stockpile is to consist of silt fence installed in accordance with the standards delineated above. The silt fence shall be maintained as noted above. Stockpiles and fill area shall be inspected at least weekly for signs of erosion or problems with plant establishment.

Temporary Seeding

When to Apply - Temporary seeding may be necessary on construction sites to protect an area, or section, where final grading is complete, when preparing for winter work shutdown, or to provide cover when permanent seedings are likely to fail due to mid-summer heat and drought. The intent is to provide temporary protective cover during temporary shutdown of construction and/or while waiting for optimal planting time.

Water management practices must be installed as appropriate for site conditions. The area must be rough graded and slopes physically stable. Large debris and rocks are usually removed. Seedbed must be seeded within 24 hours of disturbance or scarification of the soil surface will be necessary prior to seeding. Fertilizer and lime are not typically used for temporary seedings.

If it is spring, summer or early fall, then seed the area with ryegrass (annual or perennial) at 30 lb per acre (Approximately 0.7 lb/1000 sq. ft. or use 1 lb/1000 sq. ft.).

If it is late fall or early winter, then seed with Certified 'Aroostook' winter rye (cereal rye) at 100 lb per acre (2.5 lb/1000 sq. ft.).

Any seeding method may be used that will provide uniform application of seed to the area and result in relatively good soil to seed contact.

Mulch the seeded area with hay or straw at 2 tons/acre (approx. 90 lb/1000 sq. ft. or 2 bales). Quality of hay or straw mulch allowable will be determined based on long term use and visual concerns. Mulch anchoring will be required where wind or areas of concentrated water are of concern. Wood fiber hydromulch or other sprayable products approved for erosion control (nylon web or mesh) may be used if applied according to manufacturers' specification. Caution is advised when using nylon or other synthetic products. They may be difficult to remove prior to final seeding.

LEGEND

- PROPERTY LINE
- EXISTING TOPOGRAPHY
- PROPOSED SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED CATCH BASIN
- PROPOSED STORM PIPE

EROSION CONTROL PLAN LEGEND

- SCE STABILIZED CONSTRUCTION ENTRANCE
- SF SILT FENCE
- SS SOIL STOCKPILE
- IP INLET PROTECTION
- CM CONSTRUCTION MATERIALS STORAGE / STAGING AREA
- CP CONTRACTOR PARKING AREA
- WM WASTE MATERIALS STORAGE
- CW CONCRETE WASHOUT AREA
- CF CONSTRUCTION FENCE
- Limit of Disturbance Line
- DB SILT/DEWATERING BAG
- TREE PROTECTION FENCING

Util Pole

CONNECT TO EXISTING SANITARY SEWER PIPE IN STREET

CONNECT TO EXISTING WATER MAIN IN STREET

EXISTING WATER MAIN IN STREET

EXISTING SANITARY SEWER IN STREET

Util Pole

Alan L. Pich  
ALP Engineering & Landscape Architecture, PLLC  
P.O. Box 843, Ridgefield, CT 06877  
162 Falls Road, Ridgefield, CT 06874  
P.E. #80167  
C of A #0016331  
Tel: (475) 215-5343

CONSULTANTS:

PROJECT ARCHITECT:

Jaclyn Tyler, AIA  
Nexus Creative Design  
Architecture Planning & Design  
100 White Plains Road  
Tarrytown, NY 10591

Tel: (914) 740 - 4774 | (914) 204 - 6404

ISSUED:

Rev. as per comment from Village and consultants	12/29/2021
Rev. as per Sheet C-102 Board	05/27/2022
Re-submission to Planning Board	09/19/2022
Rev. as per HCZM and Village consulting Engineer comments	10/24/2022
Rev. as per HCZM and Village consulting Engineer comments	11/15/2022
Rev. as per HCZM and Village consulting Engineer comments	11/28/2022
Rev. as per HCZM and Village consulting Engineer comments	12/14/2022
Rev. as per Ping Bd and Village consulting Engineer comments	01/16/2023
Rev. as per Ping Bd and Village consulting Engineer comments	03/08/2023

OWNERSHIP AND USE OF DOCUMENTS

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

No part of these drawings shall be copied, disclosed to others or used in connection with any work or project other than for which they have been prepared without the express written consent of the licensed professional who prepared the document.

SEAL:



PROJECT NAME:  
**D'ARCANGELO PROPERTY**  
921 Soundview Drive  
Village of Mamaroneck, New York

ENGINEER & LANDSCAPE ARCHITECT:  
**ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC**

P.O. Box 843 Ridgefield, CT 06877  
Direct Tel: (475) 215-5343 Cell (203) 710-0587

Drawing Title:

**Erosion and Sediment Control Plan**

Date: October 18, 2021

Dwn. by: alp

ID: 921 Soundview\_Site\_03-08-2023

C-103



CONSTRUCTION SEQUENCE NARRATIVE

All erosion and sedimentation control measures and procedures shall comply with the New York State Department of Environmental Conservation publication Standards and Specifications for Erosion and Sediment Control, latest edition. Erosion control measures shall be installed prior to the start of construction and maintained in effective condition throughout the construction period.

Land disturbance shall be kept to a minimum. Restabilization shall be scheduled as soon as practicable.

Notify all appropriate authorities (i.e., Village of Mamaroneck Building Department - Telephone: 914-777-7731 and the Engineering Department - Telephone 914-777-7787) at least 48 hours prior to the commencement of site work.

Verify all existing underground and overhead utilities prior to any construction activity by calling Dig Safely New York (dial 811 or on the internet at <http://www.digsafelyny.com/>) and conducting one's own due diligence.

All erosion control measures shall be installed prior to any construction activity, and periodically monitored throughout all phases of construction for proper function and structural integrity. Perform maintenance and repairs as necessary.

The construction sequence is as follows:

- 1) Identify Disturbance Limits - Identify the limits of the areas to be disturbed within the property in accordance with the drawings. The limits of disturbance may be referenced on drawing C-103.
- 2) Install Construction Fence/Tree Protection Fence where indicated on the plans to protect existing trees to remain and prevent compaction of soils. Take care to ensure that for trees to remain, the roots below the drip line are not compacted.
- 3) Install the Erosion and Sediment Control Measures - In accordance with the plans, install:
  - Silt fence in the locations shown on the drawings and installed as per the instructions of the manufacturer and as shown on the construction details.

- Construction materials storage area shall be set up where indicated on the drawings. The construction materials storage area shall be encompassed with a construction fence as a containment.
- Construction Fencing and Tree Protection - where indicated on the plans.

Silt fence is to be installed along perimeter of construction area as shown on the drawings. Silt fence shall be installed, in general, parallel to the contour. Where one length of silt fence ends and another begins, provide a minimum 10 foot overlap. Additional silt fence may be placed in the field at the discretion of representatives of the approving authorities. Silt fence shall be maintained in operable condition and shall not be removed until disturbed areas are thoroughly stabilized.

- 4) Building Materials - for the new house and pool to be constructed, the building materials shall be temporarily stored in the Construction Materials storage area depicted on the plans.

- 5) Footing, Foundation and Building Pad Preparation - Following the installation of the soil erosion and sediment controls measures and demolition, prepare the building pad area for the construction of the new house. Stockpile soil and soil/rock removed during excavation and protect the stockpile in the location(s) shown on the drawings and in accordance with the detail. Fence in an area for trash and waste to prevent it from being blown and washed to neighboring properties, into Otter Creek or to the street (see drawing C-103).

- 6) House and Pool Construction - Construct the house, pool, pool deck and all other site improvements in accordance with the architect's plans.

- 7) Install Stormwater Management and Drainage Facilities - Storm drainage systems are installed from the lowest to highest elevations.

Construct the stormwater management facility to consist of the subsurface chamber practices. Install the chambers in accordance with the construction details. **The chambers must be inspected by the project engineer prior to stone backfill.** Install the catch basins, pre-treatment facilities and trench drain. Set the storm drainage pipes at the elevations specified on the plans at each structure. Connect the house roof drain leaders to the structures and/or storm drainage pipes specified on drawing C-102.

**Do not permit runoff to enter the subsurface chambers until such time as the ground surface that drains to them have achieved final stabilization.**

- 8) Prepare the Disturbed Area for Final Stabilization and Planting - Clean up all residual site debris and litter and prepare all disturbed areas not to be hard surfaced for topsoiling and seeding and/or planting. All disturbed areas are to be seeded with the permanent grass seed mix noted in the specifications.

- 9) Restore the permeability of the soil by following the Soil Restoration steps in accordance with the New York State Stormwater Management Design Manual, as follows:

- Apply 3 inches of compost over subsoil.
- Till compost into subsoil to a depth of at least 12 inches using a cat-mounted ripper, tractor-mounted disc, or tiller, mixing, and circulating air and compost into subsoils.
- Rock-pick until uplifted stone/rock materials of four inches and larger size are cleaned off the site.
- Apply topsoil to a depth of 6 inches.
- Vegetate as required by approved plan.
- Provide straw mulch cover over seeded areas.

- 10) Driveway Installation - Remove the soil and stabilized construction entrance for the driveway. Install the subbase and bituminous pavement courses to the elevations specified on the plans.

- 11) Remove the erosion control measures only after full vegetative stabilization occurs on the site.

EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE

Silt Fence: Maintenance shall be performed as needed and material removed when bulges develop in the silt fence. Inspection for physical damage to the silt fence material shall be made during the weekly inspection. If filter fabric shows signs of decomposing or is damaged, it shall be repaired immediately. Typically, this entails installing a new line of silt fence adjacent to the damaged line.

Tree Protection: Check on at least a weekly basis that the construction fence and/or tree protection has not been damaged by construction activities.

Soil Stockpiling: Perimeter sediment controls around each stockpile is to consist of silt fence installed in accordance with the standards delineated above. The silt fence shall be maintained as noted above. Stockpiles and fill area shall be inspected at least weekly for signs of erosion or problems with plant establishment.

Temporary Seeding

When to Apply - Temporary seeding may be necessary on construction sites to protect an area, or section, where final grading is complete, when preparing for winter work shutdown, or to provide cover when permanent seedings are likely to fail due to mid-summer heat and drought. The intent is to provide temporary protective cover during temporary shutdown of construction and/or while waiting for optimal planting time.

Water management practices must be installed as appropriate for site conditions. The area must be rough graded and slopes physically stable. Large debris and rocks are usually removed. Seedbed must be seeded within 24 hours of disturbance or scarification of the soil surface will be necessary prior to seeding. Fertilizer and lime are not typically used for temporary seedings.

If it is spring, summer or early fall, then seed the area with ryegrass (annual or perennial) at 30 lb per acre (Approximately 0.7 lb/1000 sq. ft. or use 1 lb/1000 sq. ft.).

If it is late fall or early winter, then seed with Certified 'Aroostook' winter rye (cereal rye) at 100 lb per acre (2.5 lb/1000 sq. ft.).

Any seeding method may be used that will provide uniform application of seed to the area and result in relatively good soil to seed contact.

Mulch the seeded area with hay or straw at 2 tons/acre (approx. 90 lb/1000 sq. ft. or 2 bales). Quality of hay or straw mulch allowable will be determined based on long term use and visual concerns. Mulch anchoring will be required where wind or areas of concentrated water are of concern. Wood fiber hydromulch or other sprayable products approved for erosion control (nylon web or mesh) may be used if applied according to manufacturers' specification. Caution is advised when using nylon or other synthetic products. They may be difficult to remove prior to final seeding.

LEGEND

- PROPERTY LINE
- EXISTING TOPOGRAPHY
- PROPOSED SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED CATCH BASIN
- PROPOSED STORM PIPE

EROSION CONTROL PLAN LEGEND

- SCE STABILIZED CONSTRUCTION ENTRANCE
- SF SILT FENCE
- SS SOIL STOCKPILE
- IP INLET PROTECTION
- CM CONSTRUCTION MATERIALS STORAGE / STAGING AREA
- CP CONTRACTOR PARKING AREA
- WM WASTE MATERIALS STORAGE
- CW CONCRETE WASHOUT AREA
- CF CONSTRUCTION FENCE
- Limit of Disturbance Line
- DB SILT/DEWATERING BAG
- TREE PROTECTION FENCING

Util Pole

CONNECT TO EXISTING SANITARY SEWER PIPE IN STREET

CONNECT TO EXISTING WATER MAIN IN STREET

EXISTING WATER MAIN IN STREET

EXISTING SANITARY SEWER IN STREET

Util Pole

Civil engineer:  
Alan L. Pich  
ALP Engineering & Landscape Architecture, PLLC  
P.O. Box 843, Ridgefield, CT 06877  
162 Falls Road, Ridgefield, CT 06874  
P.E. #80167  
C of A #0016331  
Tel: (475) 215-5343

CONSULTANTS:

PROJECT ARCHITECT:

Jaclyn Tyler, AIA  
Nexus Creative Design  
Architecture Planning & Design  
100 White Plains Road  
Tarrytown, NY 10591

Tel: (914) 740 - 4774 | (914) 204 - 6404

ISSUED:

Rev. as per comment from Village and consultants	12/29/2021
Rev. as per Sheet C-102	05/27/2022
Re-submission to Planning Board	09/19/2022
Rev. as per HCZM and Village consulting Engineer comments	10/24/2022
Rev. as per HCZM and Village consulting Engineer comments	11/15/2022
Rev. as per HCZM and Village consulting Engineer comments	11/28/2022
Rev. as per HCZM and Village consulting Engineer comments	12/14/2022
Rev. as per Ping Bd and Village consulting Engineer comments	01/16/2023
Rev. as per Ping Bd and Village consulting Engineer comments	03/08/2023
Rev. as per Ping Bd and Village consultant comments	03/19/2023

OWNERSHIP AND USE OF DOCUMENTS

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

No part of these drawings shall be copied, disclosed to others or used in connection with any work or project other than for which they have been prepared without the express written consent of the licensed professional who prepared the document.

SEAL:



PROJECT NAME:  
**D'ARCANGELO PROPERTY**  
921 Soundview Drive  
Village of Mamaroneck, New York

ENGINEER & LANDSCAPE ARCHITECT:  
**ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC**

P.O. Box 843 Ridgefield, CT 06877  
Direct Tel: (475) 215-5343 Cell (203) 710-0587

Drawing Title:

**Erosion and Sediment Control Plan**

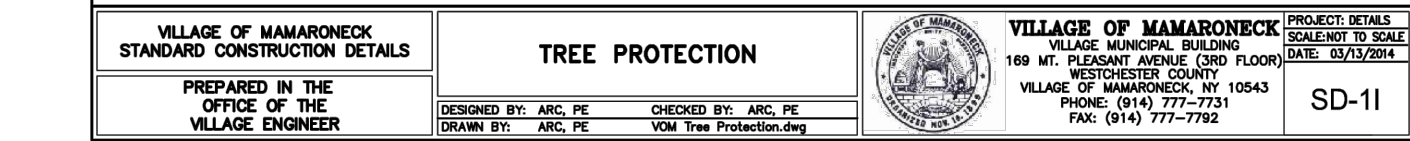
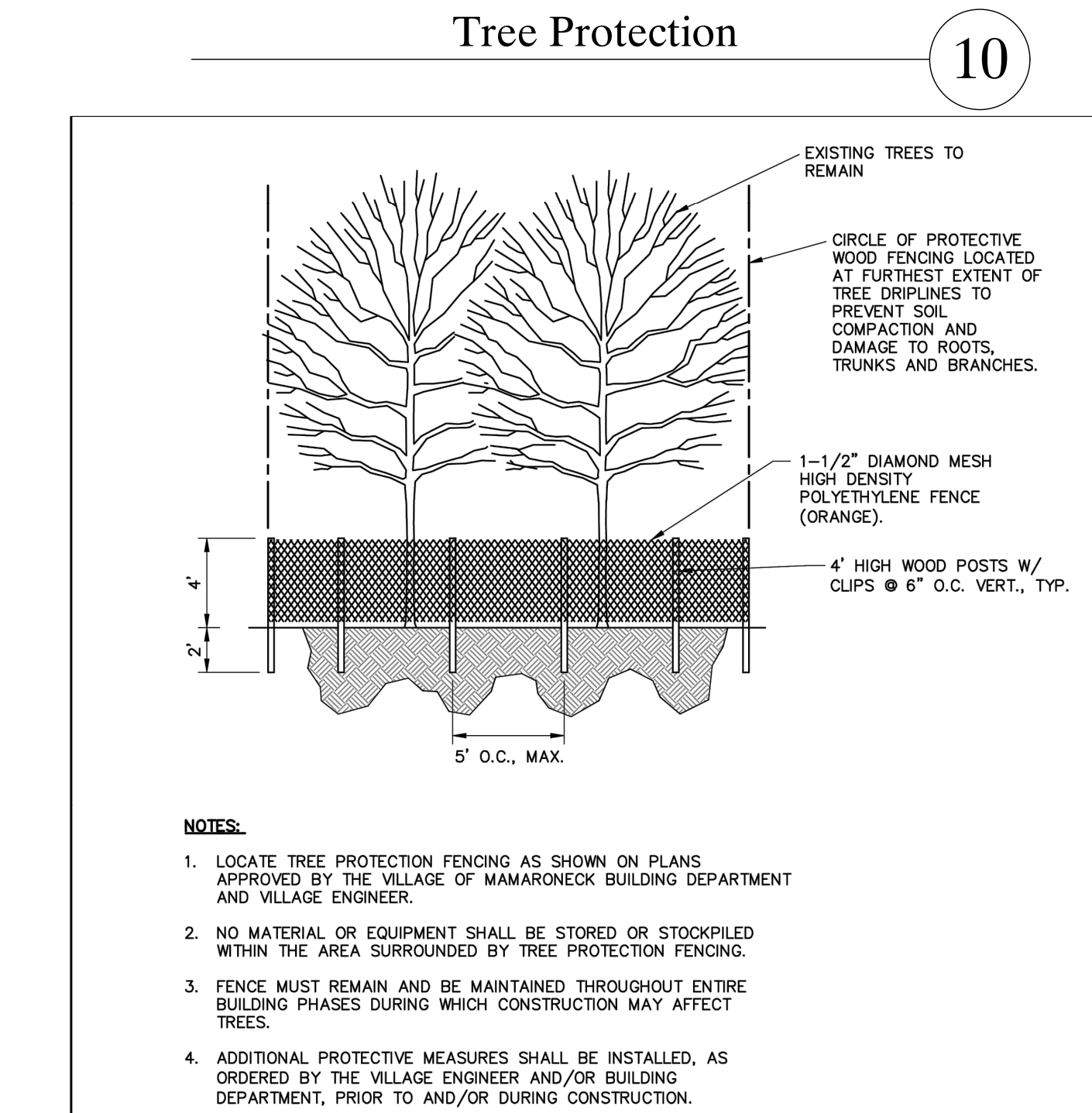
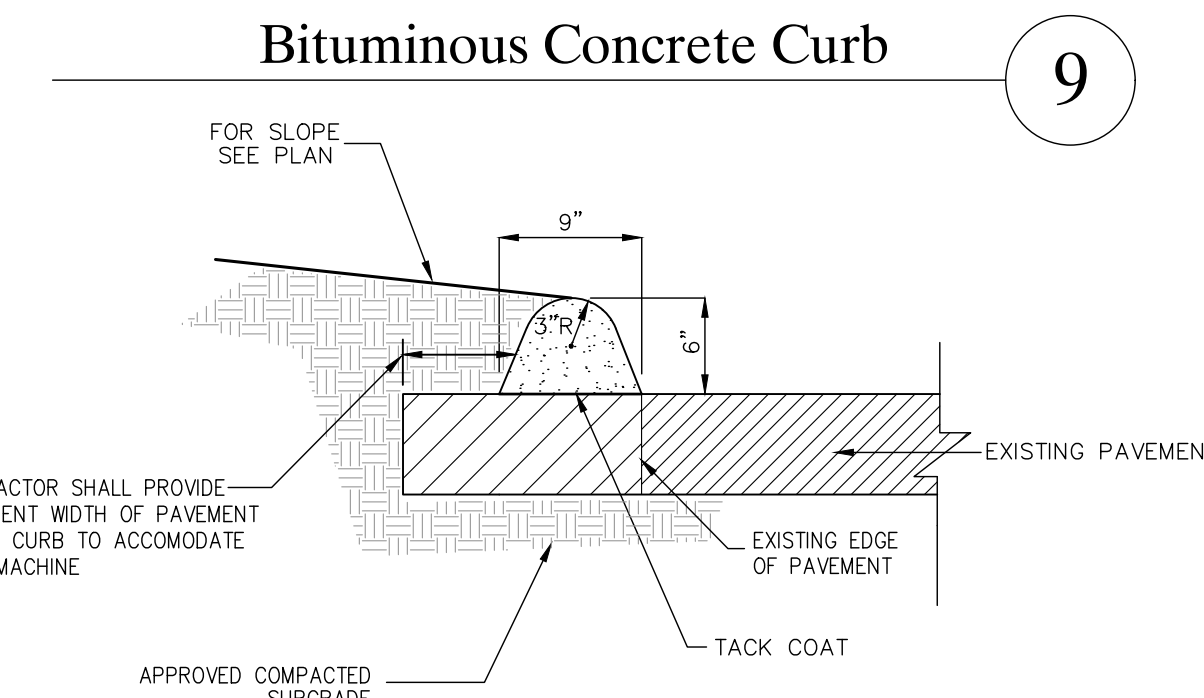
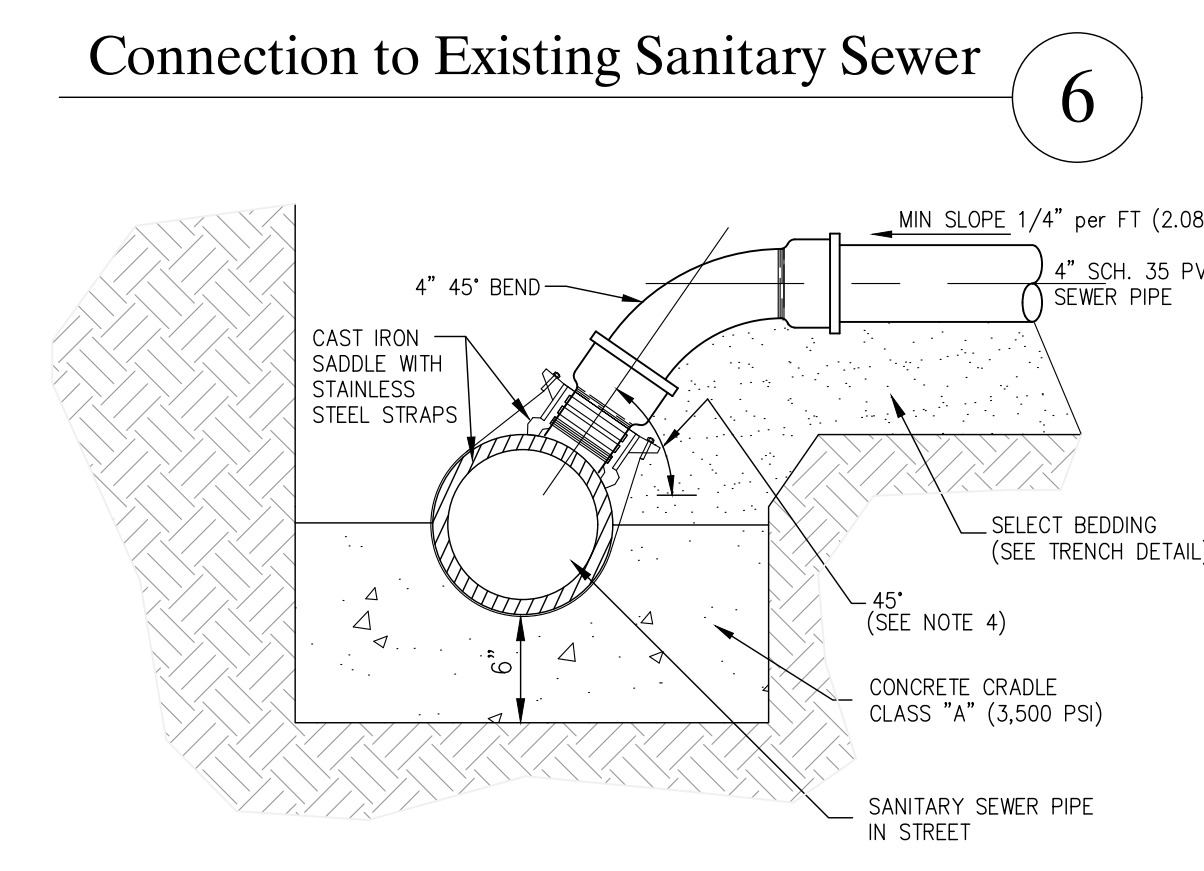
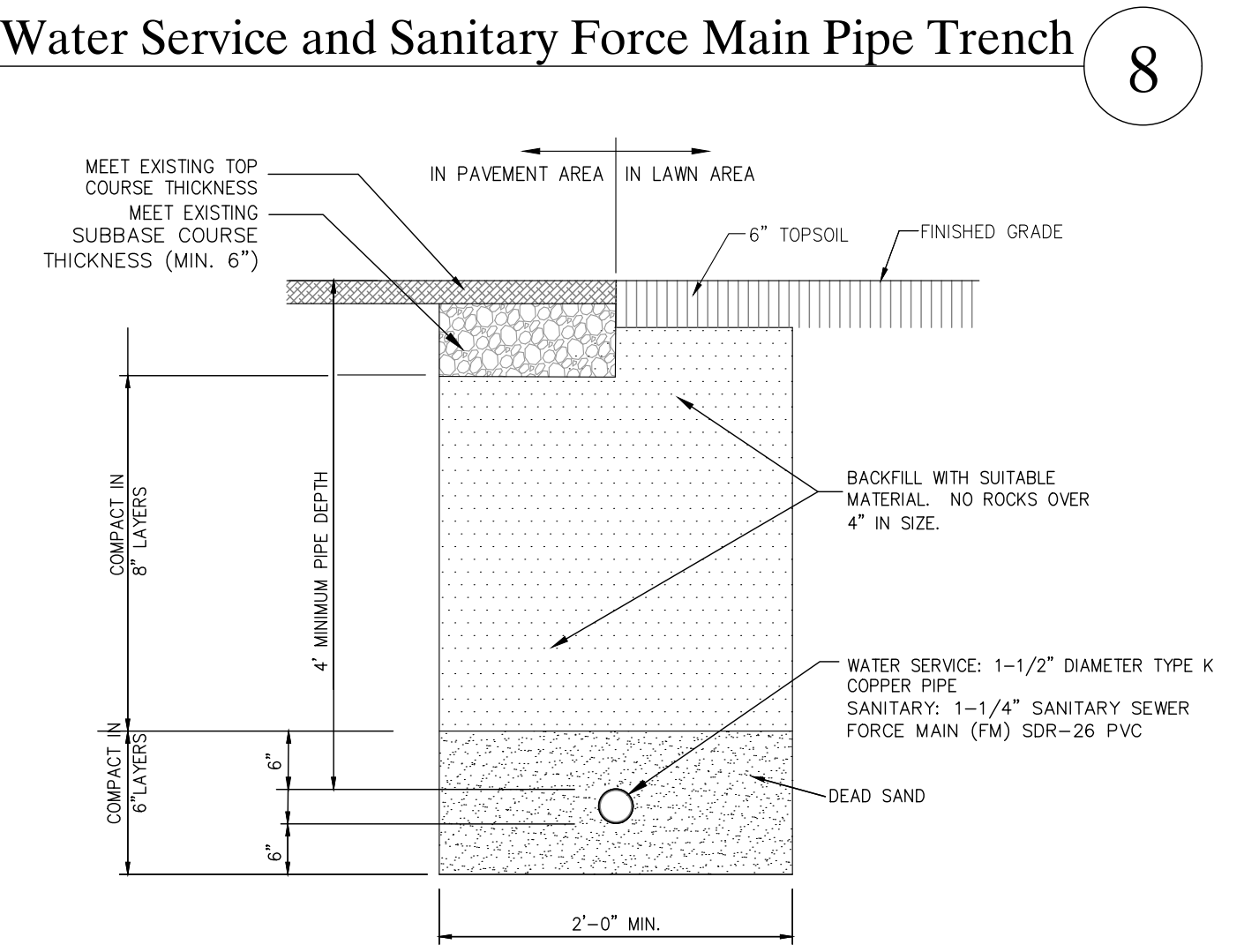
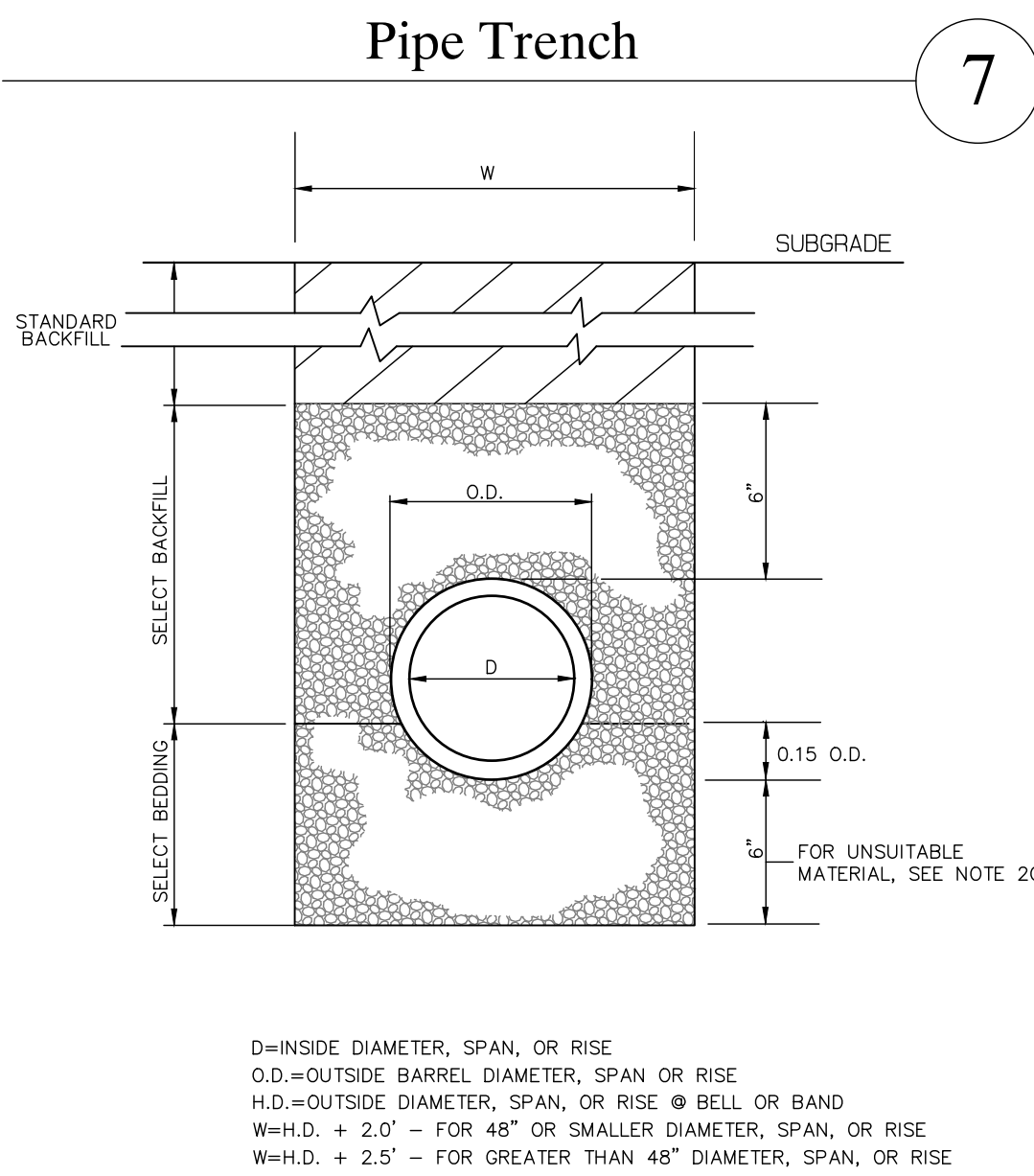
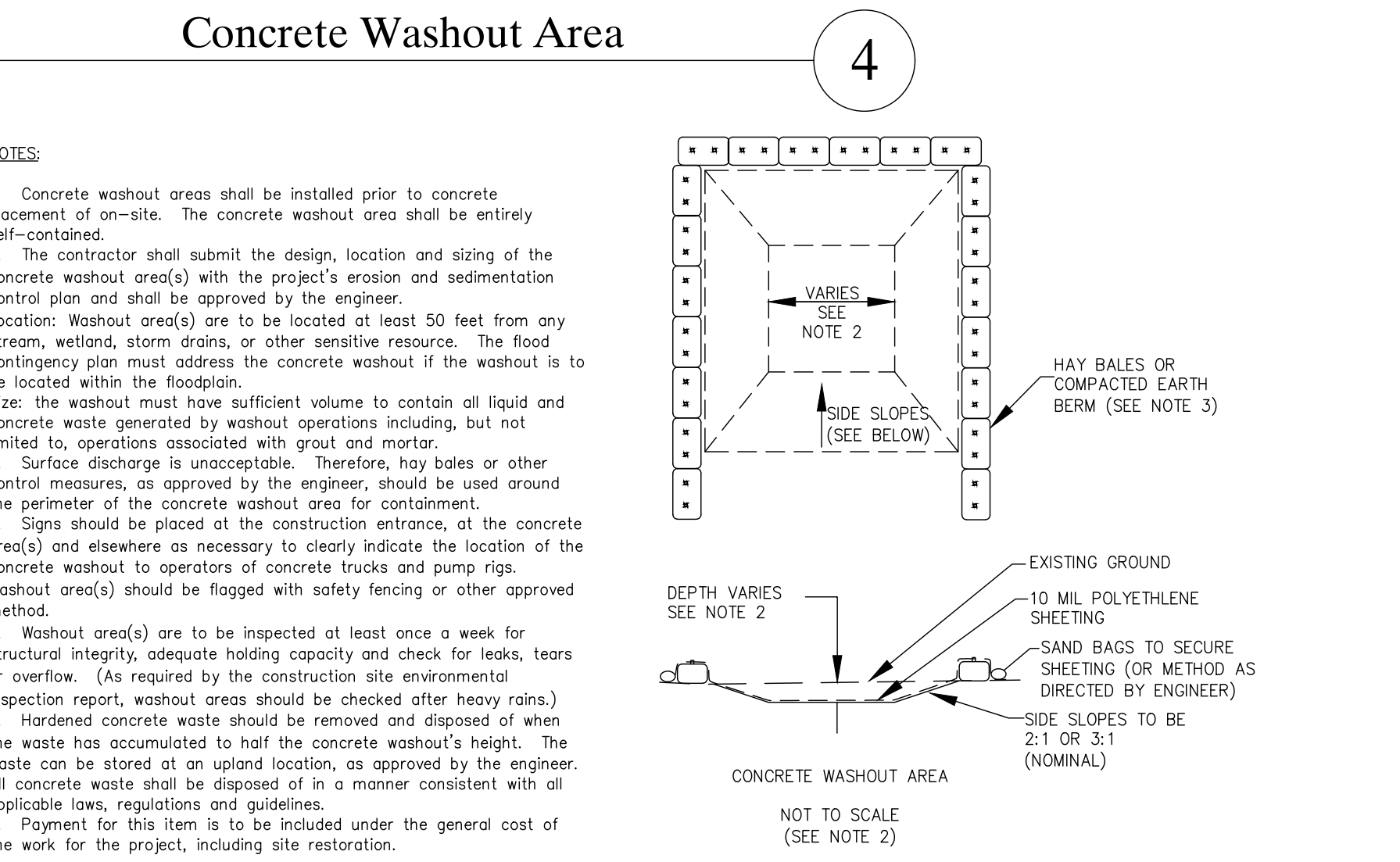
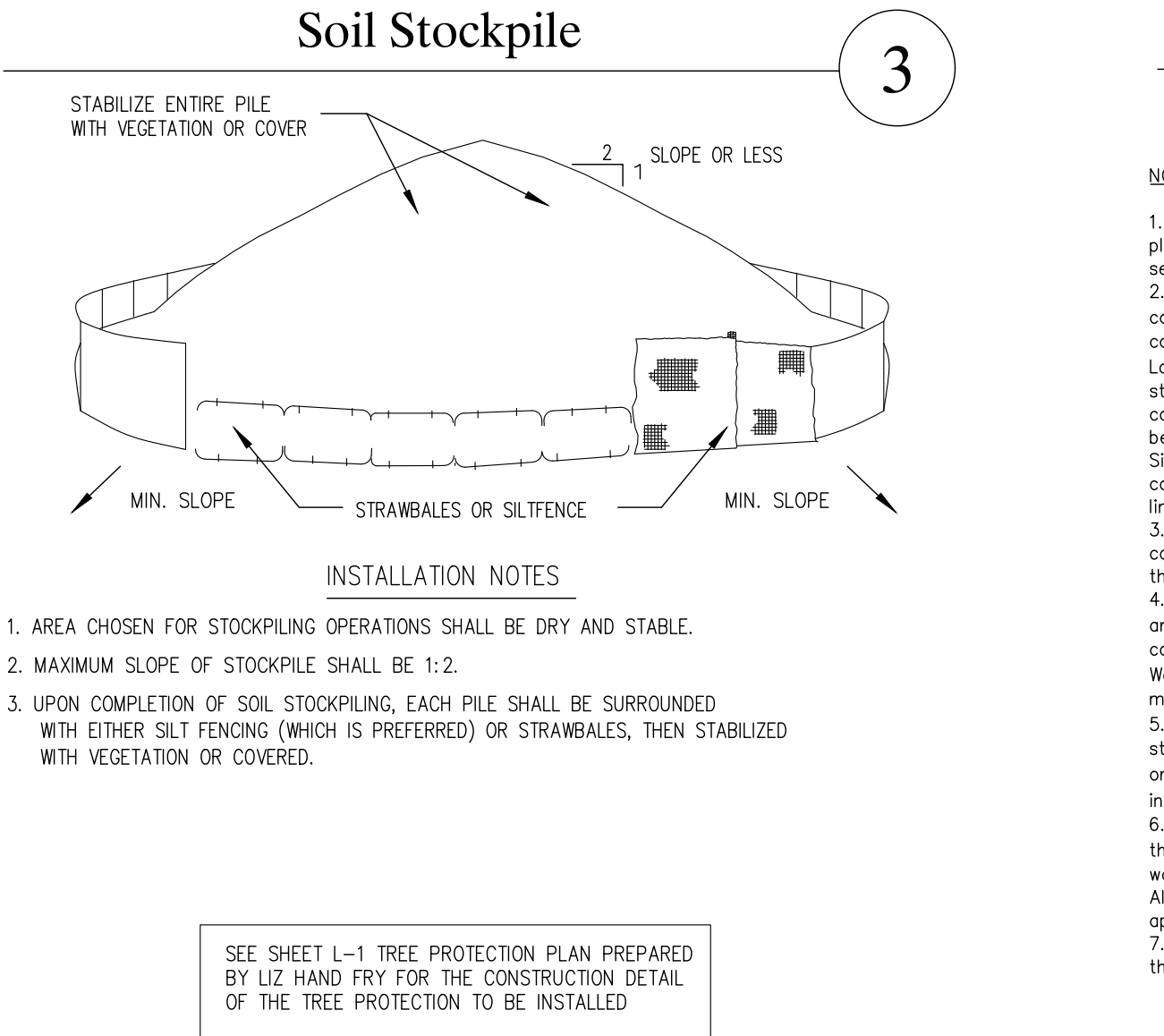
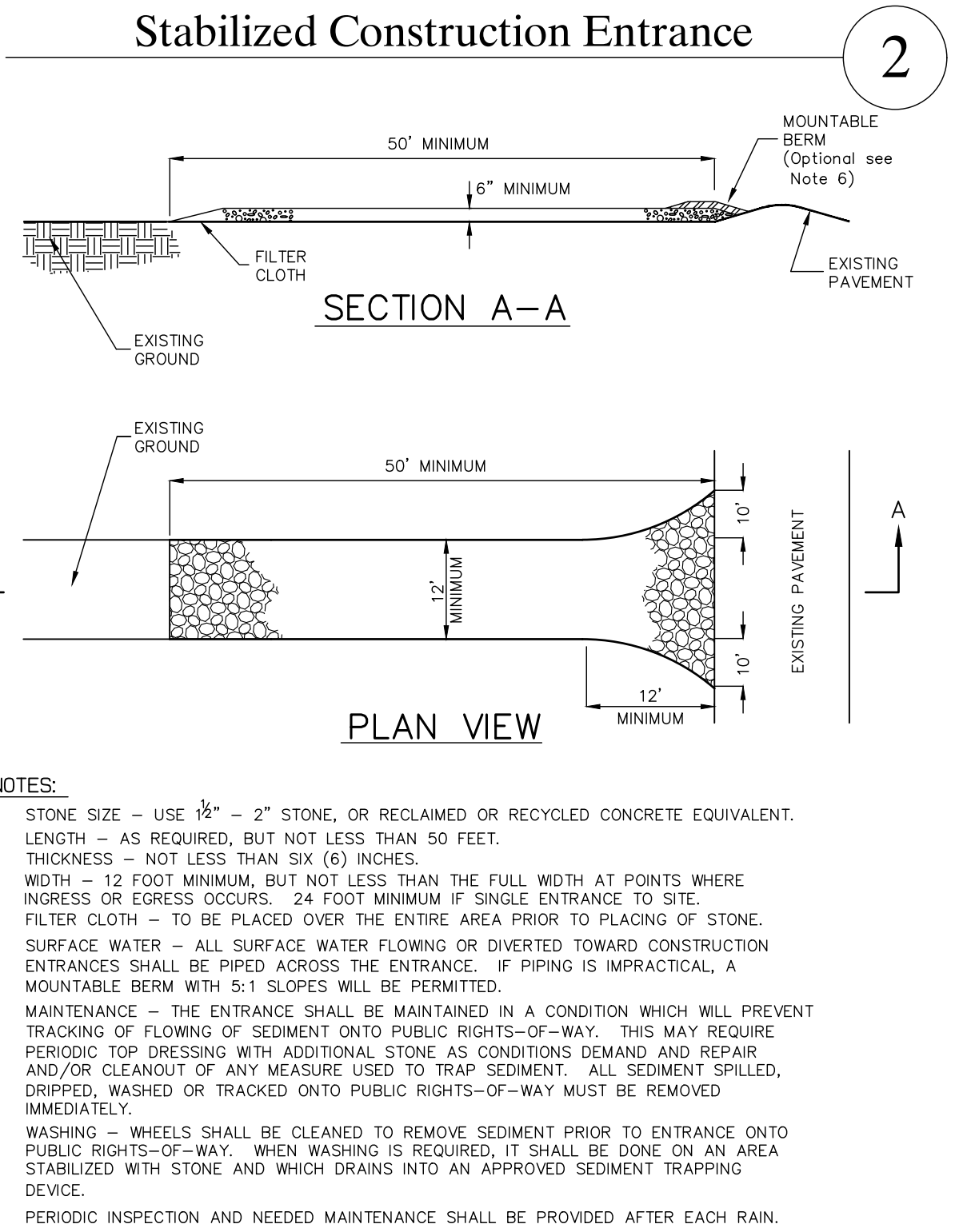
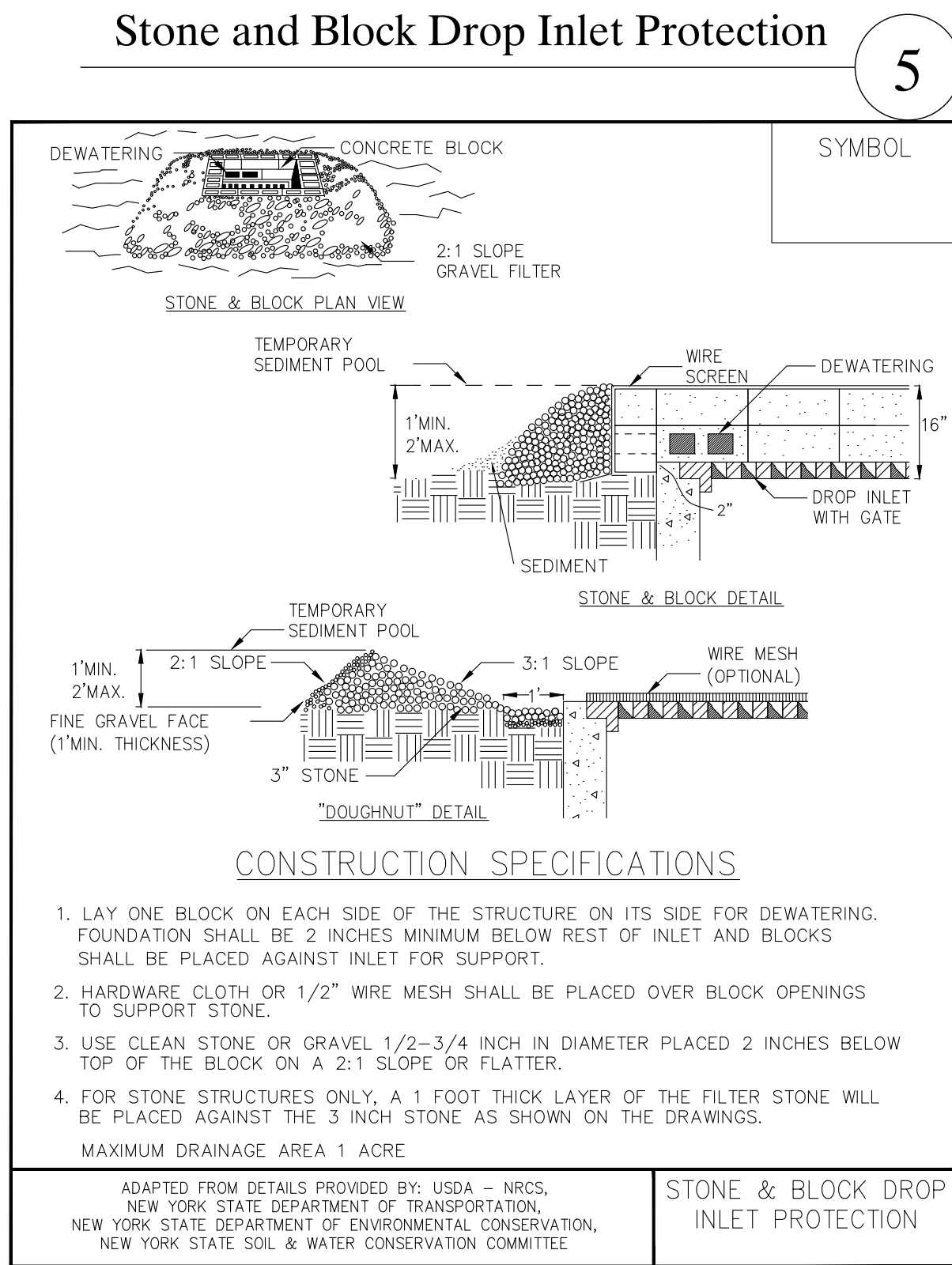
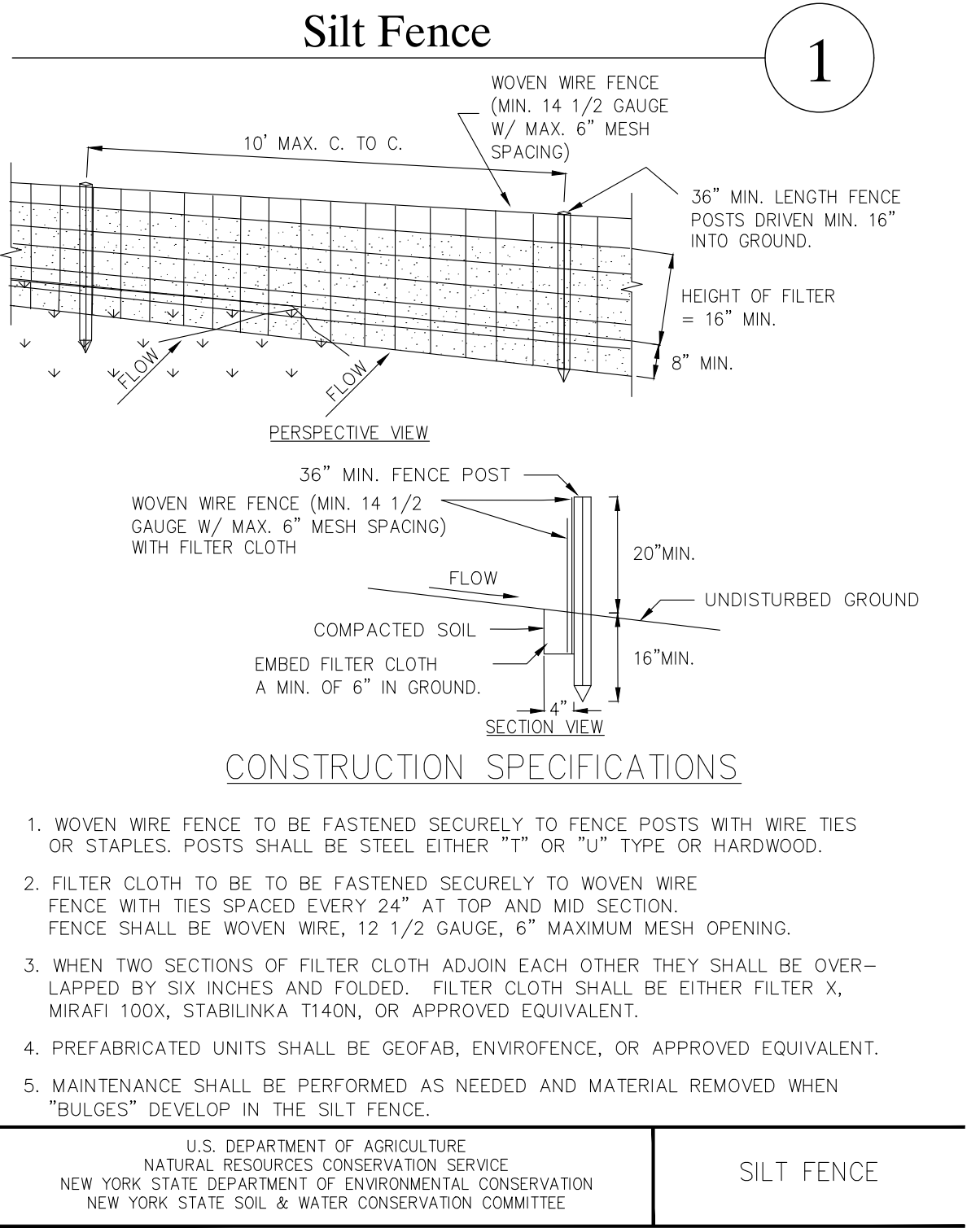
Date: October 18, 2021

Dwn. by: alp

ID: 921 Soundview\_Site\_03-08-2023

C-103





CONSULTANTS:  
PROJECT ARCHITECT:  
Jaclyn Tyler, AIA  
Nexus Creative Design  
Architecture Planning & Design  
100 White Plains Road  
Tarrytown, NY, 10591  
Tel: (914) 740 - 4774 | (914) 204 - 6404

ISSUED:	
Resubmission to Village	12/29/2021
Resubmission to Village	05/27/2022
Re-submission to Planning Board	09/19/2022
Rev. as per HCZM and Village consulting Engineer comments	10/24/2022
Re-submission to Planning Board	11/15/2022
Re-submission to Planning Board	11/28/2022
Re-submission to Planning Board	01/16/2023
Re-submission to Planning Board	03/08/2023
Tree Protection Detail Added to Sheet	03/19/2023

OWNERSHIP AND USE OF DOCUMENTS  
UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

No part of these drawings shall be copied, disclosed to others or used in connection with any work or project other than for which they have been prepared without the express written consent of the licensed professional who prepared the document.



PROJECT NAME:  
**D'ARCANGELO PROPERTY**  
921 Soundview Drive  
Village of Mamaroneck, New York

ENGINEER & LANDSCAPE ARCHITECT:  
**ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC**

P.O. Box 843 Ridgefield, CT 06877  
Direct Tel: (475) 215-5343 Cell (203) 710-0687

Drawing Title:  
**Construction Details**

Date: October 18, 2021

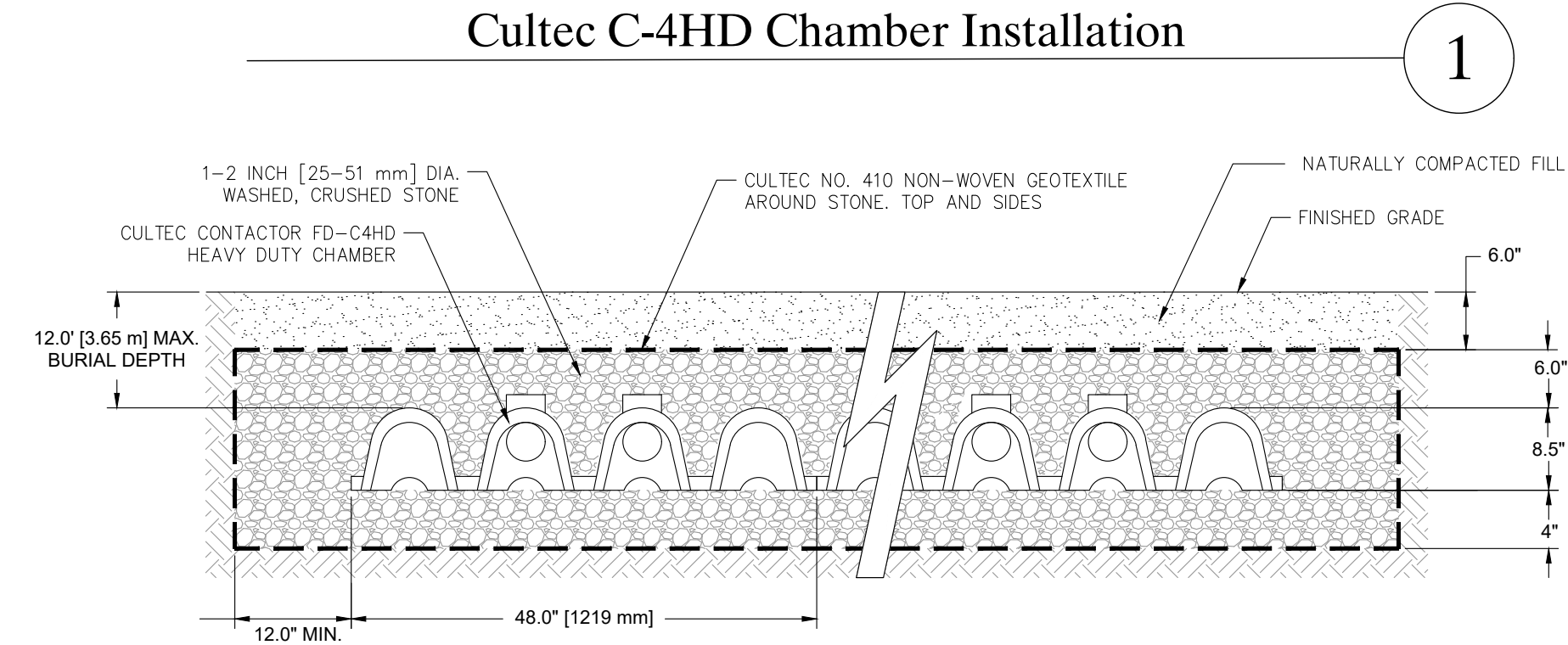
Dwn. by: alp

ID: 921 Soundview\_Site\_03-08-2023

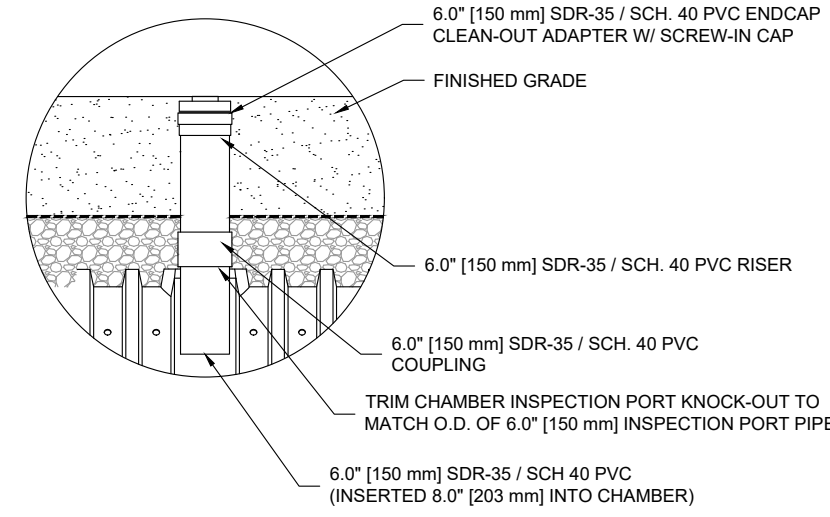
**C-111**



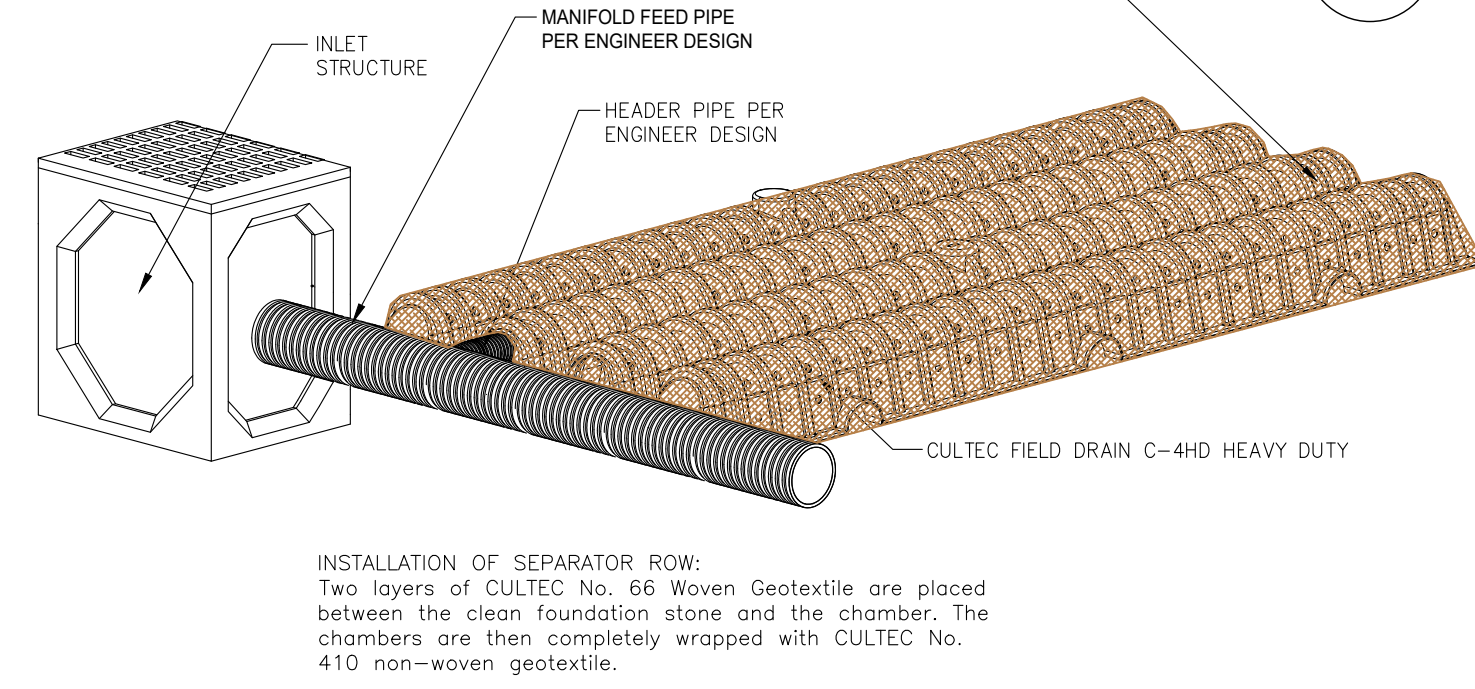
Cultec C-4HD Chamber Installation



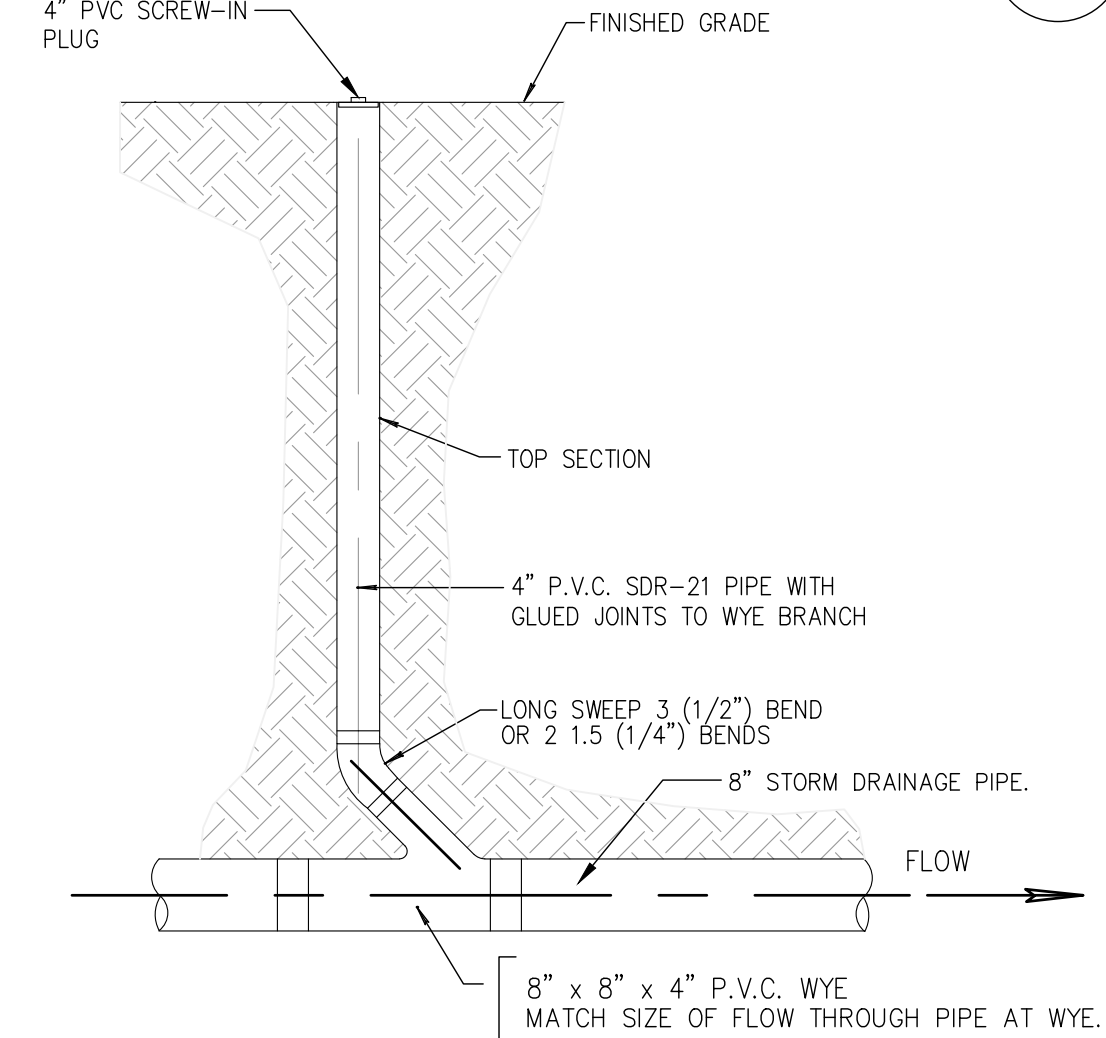
Observation Port



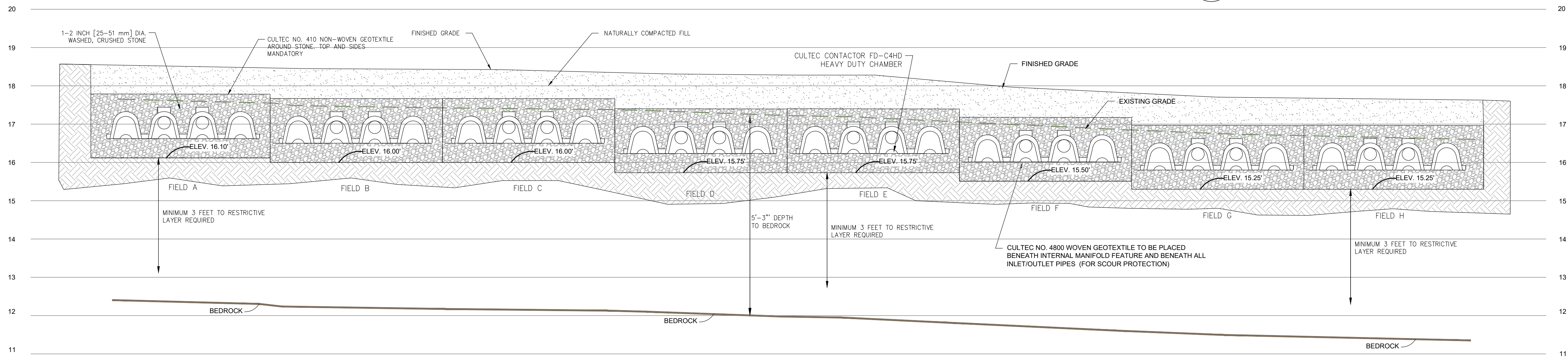
Cultec Separator Row Installation



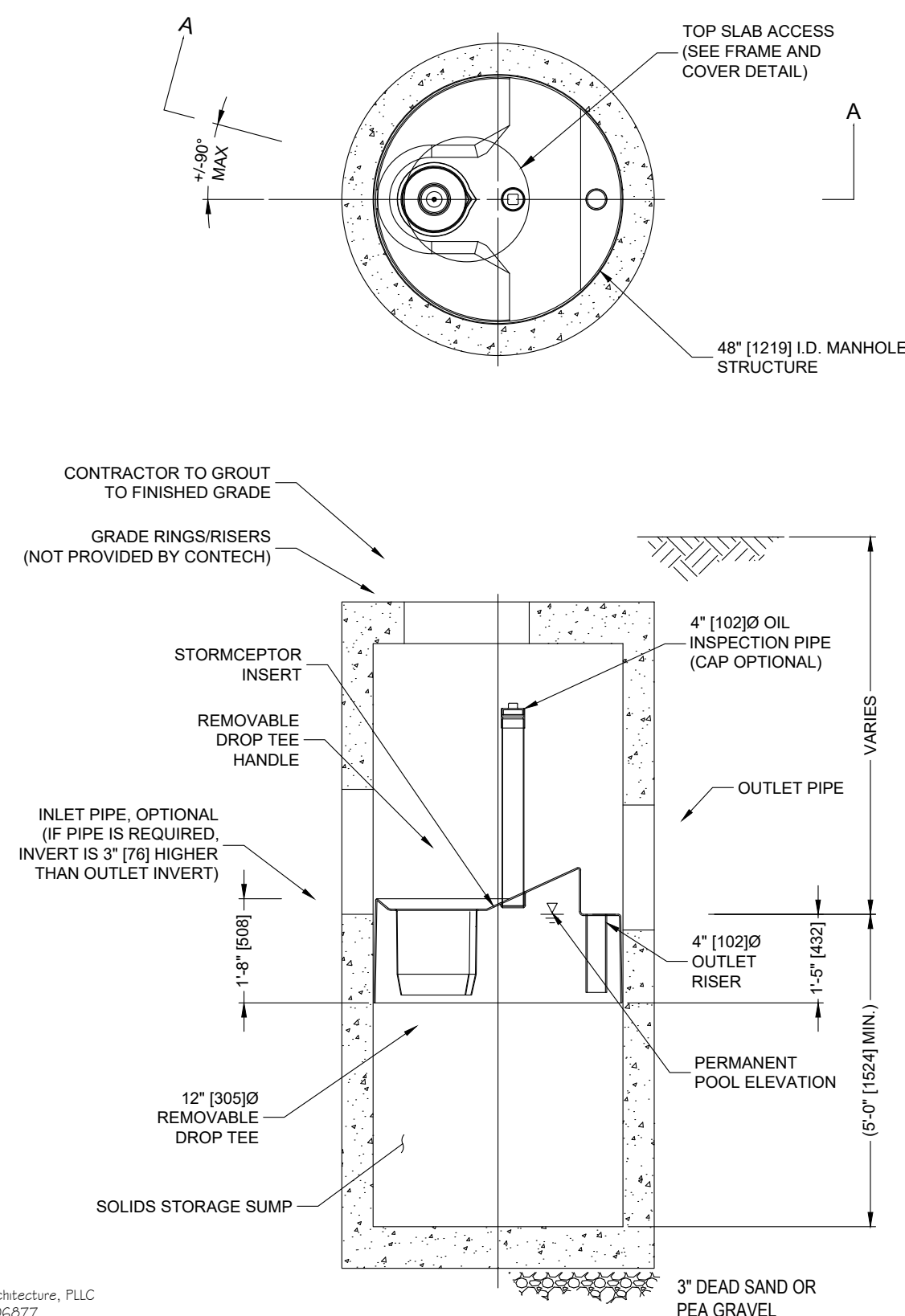
Storm Drainage Clean-Out



Stormwater Management Practice  
Cultec C-4HD Chamber Installation



Pre-Treatment Facility - Stormceptor 450i



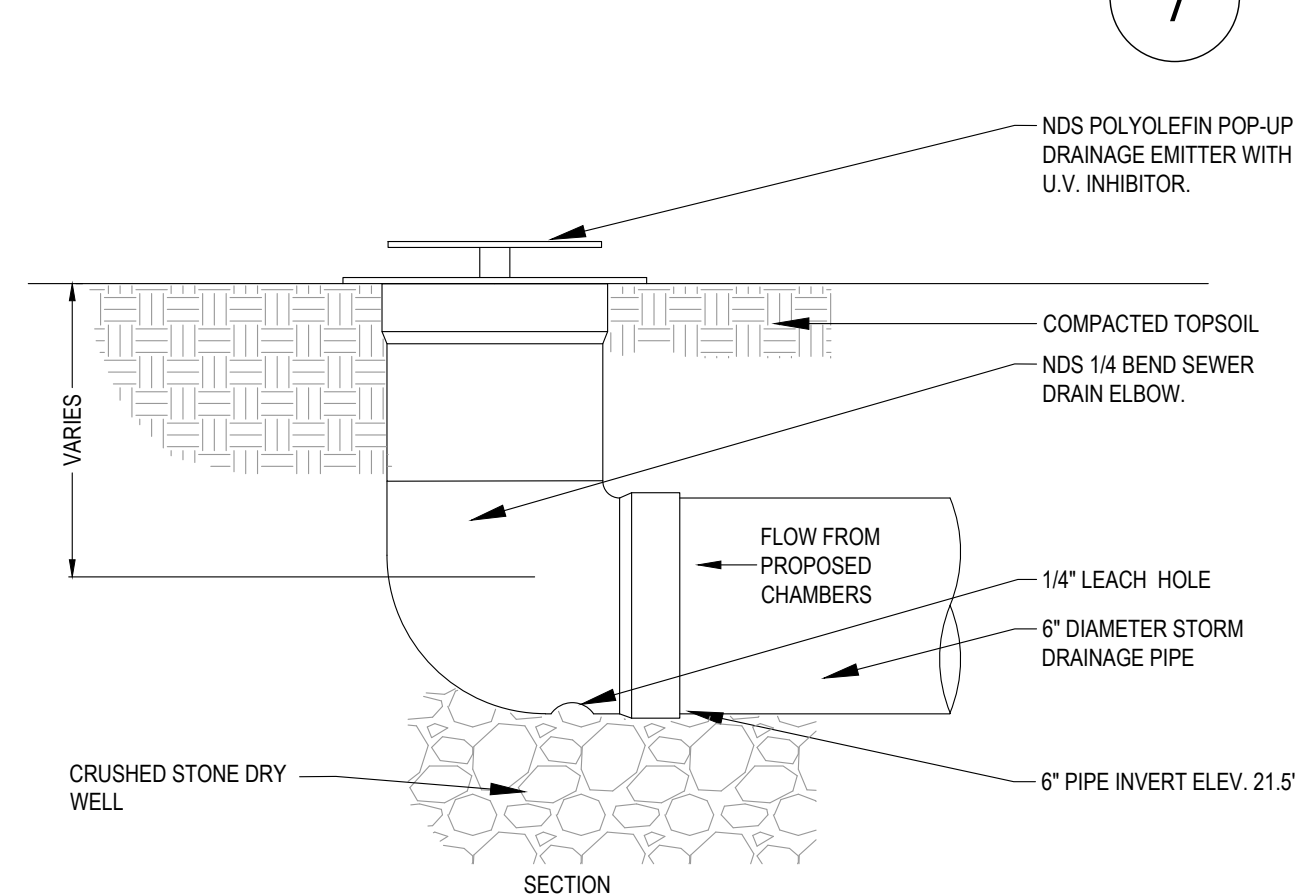
FRAME AND COVER  
(MAY VARY)  
NOT TO SCALE

- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
  2. DO NOT SCALE DRAWING.
  3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
  4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

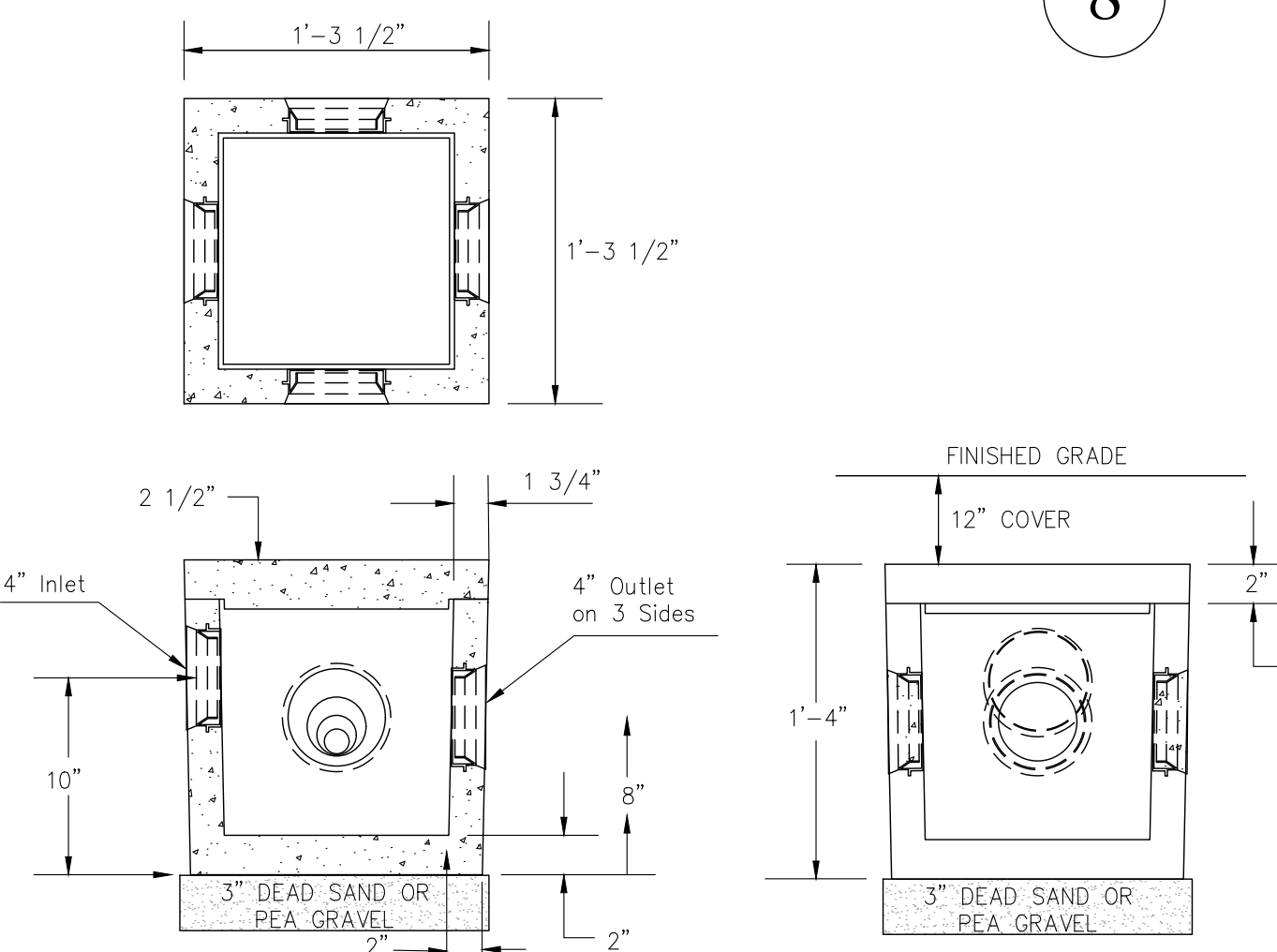


NDS, INC.  
851 NORTH HARVARD AVE.  
LINDSAY, CA 93247  
TOLL FREE: 1-800-726-1994  
PHONE: (559) 562-9888  
FAX: (559) 562-4488  
www.ndspro.com

6" Pop-Up Emitter



Sanitary Sewer Distribution Box



SCHEDULE "A"  
STORMWATER MAINTENANCE FACILITY MAINTENANCE AND  
ACCESS AGREEMENT BY AND BETWEEN OWNER  
AND THE VILLAGE OF MAMARONECK

STORMWATER MANAGEMENT PRACTICE	MAINTENANCE AND INSPECTION MEASURES
Subsurface Chambers	<b>Inspect for:</b> (i) Depth of sediment, if any, through inspection via the installed observation ports of the chambers during the first 2 to 3 months of operation, and thereafter on an annual basis. (ii) The rate of dewatering of the infiltration facility following a precipitation event. The chambers should fully dewater within 48 hours of the end of the precipitation event. <b>Maintenance Measures include:</b> (i) Observe the depth of sediment, if any, through the inspection port of the chambers on an annual basis. (ii) Remove sediment from chambers when the depth of sediment is 3" or more.
Catch Basins	<b>Inspection Procedures:</b> Inspect the catch basins annually in the spring or summer. Inspect for: (i) sediment deposition or floatables in the catch basin, and (ii) structural integrity. <b>Maintenance Tasks include:</b> <ul style="list-style-type: none"><li>• Remove the grate.</li><li>• Skim off any floatables (leaves)</li><li>• Using a yardstick, measure the depth of sediment</li><li>• If sediment is at a depth greater than 6", then remove sediment with a shovel. If not replace grate or cover.</li><li>• Record depth &amp; date when the work is done.</li></ul>
Hydrodynamic Separators	<b>Inspection Procedures:</b> Inspect the hydrodynamic separator at the end of the first year of operation and following that once every five (5) years. Inspect for: (i) sediment deposition or floatables in the structure, and (ii) structural integrity.
Maintenance Procedures	<b>Maintenance Tasks include:</b> Clean out the unit once the sediment depth reaches the manufacturer's recommended maintenance sediment depth which for the Model STC-450i is 8 inches. The frequency may be adjusted based on inspection results due to variable site sediment loading. <b>Equipment is typically required for inspection includes:</b> <ul style="list-style-type: none"><li>• Manhole access cover lifting tool (i.e., crowbar)</li><li>• Flashlight</li></ul> Stormceptor is to be inspected from grade through a standard surface manhole access cover. Sediment inspections are performed with a sediment probe. <ul style="list-style-type: none"><li>• Maintenance cleaning of accumulated sediment is performed with a vacuum truck.</li></ul>

CONSULTANTS:  
PROJECT ARCHITECT:

Jaclyn Tyler, AIA  
Nexus Creative Design  
Architecture Planning & Design  
100 White Plains Road  
Tarrytown, NY, 10591

Tel: (914) 740 - 4774 | (914) 204 - 6404

ISSUED:

Rev. as per comment from Village and consultants	12/29/2021
Added Details 3 and 4	05/27/2022
Re-submission to Planning Board	09/19/2022
Rev. as per HCZM and Village consulting Engineer comments	10/24/2022
Rev. as per HCZM and Village consulting Engineer comments	11/15/2022
Rev. as per HCZM and Village consulting Engineer comments	11/28/2022
Rev. as per HCZM and Village consulting Engineer comments	12/14/2022
Re-submission to Planning Board	01/16/2023
Re-submission to Planning Board	03/08/2023

OWNERSHIP AND USE OF DOCUMENTS

UNAUTHORIZED ALTERATIONS AND ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

No part of these drawings shall be copied, disclosed to others or used in connection with any work or project other than for which they have been prepared without the express written consent of the licensed professional who prepared the document.

SEAL:



PROJECT NAME:  
**D'ARCANGELO PROPERTY**  
921 Soundview Drive  
Village of Mamaroneck, New York

ENGINEER & LANDSCAPE ARCHITECT:  
**ALP ENGINEERING & LANDSCAPE ARCHITECTURE, PLLC**  
P.O. Box 843 Ridgefield, CT 06877  
Direct Tel: (475) 215-5343 Cell (203) 710-0587

Drawing Title:

**Construction Details**

Date: October 18, 2021

Dwn. by: alp

ID: 921 Soundview\_Site\_03-08-2023

C-112



## 1



1. ALL PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ACCOMMODATE AN H-20 DESIGN LOAD. ALL SUBSURFACE STORMWATER DETENTION FACILITIES SHALL ALSO MEET AN H-20 LOADING.
- NOTES PERTAINING TO DRAIN INLETS
1. STEPS WILL NOT BE REQUIRED IN INLETS LESS THAN 4(4) FEET IN DEPTH. STEPS WILL BE REQUIRED IN INLETS FOUR (4) FEET OR GREATER IN DEPTH.
2. WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED 'MANHOLE STEPS & LADDERS'.
3. FOR MASONRY STRUCTURES, THE FIRST COURSE OF MASONRY SHALL BE SET IN THE CONCRETE FOUNDATION BEFORE THE CONCRETE HAS SET. CONCRETE FOUNDATION SHALL BE CLASS "A" (3500 PSI) CONCRETE, TWELVE (12) INCHES THICK AND SHALL EXTEND SIX (6) INCHES BEYOND THE OUTSIDE FACE OF THE STRUCTURE.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AND CONSTRUCT THE PROPER SIZE STRUCTURE INCLUDING THE NECESSARY OPENINGS TO ACCOMMODATE THE WORK AS SHOWN ON THE PLANS OR ORDERED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
5. ALL NECESSARY PATCHING FOR DRAIN STRUCTURES SHALL BE ACCOMPLISHED WITH NON-SHRINKING GROUT MORTAR GROUT, APPROVED EQUAL TO Sika-SET AS MANUFACTURED BY THE Sika CHEMICAL CORP.
6. FOUNDATIONS FOR PRECAST CONCRETE STRUCTURES SHALL BE SET ON A COMPACTED LAYER OF APPROVED POROUS MATERIAL HAVING A MINIMUM COMPACTED THICKNESS OF EIGHT (8) INCHES.
7. ALL PIPES SHALL BE OUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.
8. PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED DRAIN INLETS WITH PROPER SIZE OPENING TO ACCOMMODATE THE OVERSIZED DRAIN INLET.
9. FOR MASONRY STRUCTURES GREATER THAN TWELVE (12) FEET IN DEPTH, THICKNESS OF MASONRY WALLS SHALL BE INCREASED TO TWELVE (12) INCHES.

ת



## 2



**Disclaimer:**  
The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

Drawn on: 3-1

\*NOTE:  
In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

f



1. TIGHTLY SEAL SLEEVE ROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
2. PLACE FILTER BAG ON SUITABLE BASE (E.G., MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BAGE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
3. CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
4. REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY. WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT AT LEAST 10' IN AN APPROVED AREA AND STABILIZE WITH MULCH. AT THE END OF THE WORK DAY, RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
5. USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE MUST ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:
 

GRASS TENSILE	250 LB	
PUNCTURE	150 LB	ASTM D-4633
FLOW RATE	70 GAL/MIN/FT <sup>2</sup>	ASTM D-4491
PERMITTIVITY (SEC <sup>-1</sup> )	1.2 SEC <sup>-1</sup>	ASTM D-4491
UV RESISTANCE	70% RETENTION @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15-0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4632
6. REPLACE FILTER BAG IF BAG CLOSOS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEARING IF IT BECOMES DISPLACED.

١٧



2



NOTE: DIMENSIONS ARE FOR REF ONLY



NOTE: DIMENSIONS ARE FOR REF ONLY

P.O. Box 843 Ridgefield, CT 06877  
Direct Tel. (475) 215-5343 Cell (203) 710-0587

ID: 921 Soundview\_Site\_03-08-2023

C-113