

TABLE OF LAND USE/BULK REGULATIONS			
ZONING DATA:	SECTION: 154.60	BLOCK: 1	LOT: 21
ZONE DISTRICT: R-10			
	REQUIRED OR ALLOWED	PROPOSED OR EXISTING	REMARKS
LOT AREA	10,000 SF MIN.	22,998.6 SF	INFORMATION FROM PROJECT SURVEY
FRONTAGE	100' MIN.	100 FEET	INFORMATION FROM PROJECT SURVEY
LOT WIDTH	100' MIN.	100 FEET	INFORMATION FROM PROJECT SURVEY
FRONT YARD SETBACK	25'	25.25'	MEASURED ON PLAN
SIDE YARD	LESSER SIDE 10' MIN. 25' COMBINED	LESSER SIDE 13.92' 25' COMBINED	MEASURED ON PLAN
REAR YARD SETBACK	25' MIN.	130' (TO POOL DECK)	MEASURED ON PLAN
BUILDING HEIGHT	35' MAX. 2-1/2 STORIES	< 25 FEET	
BUILDING COVERAGE	35% MAX.	10.5%	MEASURED ON PLAN

Util Pole

EXISTING WATER MAIN IN STREET

EXISTING SANITARY SEWER IN STREET

SOUNDVIEW DRIVE

DRIVE

Util Pole

Civil engineer:  
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ALP Engineering & Landscape Architecture, PLLC  
P.O. Box 843, Ridgefield, CT 06877  
165 Falls Road, Ridgefield, CT 06877  
P.E. #80167  
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LEGEND

- PROPERTY LINE
- SETBACK LINE
- EXISTING TREE
- EXISTING TREE TO BE REMOVED
- WETLAND LINE
- WETLAND BUFFER LINE

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 Town consulting Engineer comments	10/24/2022
Rev. as per HCZM and Town consulting Engineer comments	11/15/2022
Rev. as per HCZM and Town consulting Engineer comments	11/28/2022
Rev. as per HCZM and Town consulting Engineer comments	12/14/2022

OWNERSHIP AND USE OF DOCUMENTS  
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SEAL:



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

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

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Drawing Title:  
**Site Layout Plan**

Date: October 18, 2021  
Dwn. by: alp  
ID: 921 Soundview\_Site\_12-12-2022

C-101



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	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)		P I P E P A R A M E T E R S												
Upper	Lower	"n"	Design q	Capacity Q	Manning's "n"	Size (In.)	Actual Vel(ft/s)	Velocity Full ft/s	Slope %	Length (ft)	Fall (ft)	Invert Upper	Invert Lower	Top/Rim Elev			
TD-1	KEY 5	7.79	0.08	5.75	0.012	8	5.2	16.5	19.33	3	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	2.62	31.50	28.88	32.00			
KEY 6	CB-2	7.79	0.18	4.24	0.012	8	4.6	12.1	10.49	41	4.30	28.88	24.58	30.90			
CB-2	CB-1	7.79	0.34	5.12	0.012	8	6.6	14.7	15.32	31	4.75	24.58	19.83	26.50			
CB-1	PT-1	7.79	0.39	5.00	0.012	8	7.6	14.3	14.58	4	0.58	19.83	19.25	22.75			
PT-1	CB L-1	7.79	0.39	1.75	0.012	8	3.8	5.0	1.79	106	1.90	19.00	17.10	22.40			
CB L-1	Chambers	7.79	0.39	4.78	0.012	8	7.3	13.7	13.33	3	0.40	17.10	16.70	18.10			
RDL-1	PT-1	7.79	0.04	1.39	0.010	4	6.0	16.0	31.67	5	1.58	21.17	19.58	22.50			
RDL-2	CB-2	7.79	0.04	1.24	0.010	4	5.3	14.2	25.00	5	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	0.28	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	1.17	32.67	31.50	34.00			
RDL-5	PT-1	7.79	0.04	0.33	0.010	4	2.3	3.8	1.79	16	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	1.07	22.67	21.60	24.00			
RDL-7	KEY 2	7.79	0.08	0.87	0.010	4	5.3	10.0	12.33	5	0.62	21.37	20.75	22.70			
RDL-8	KEY 3	7.79	0.04	0.75	0.010	4	3.9	8.6	9.17	4	0.37	21.37	21.00	22.70			
RDL-9	KEY 3	7.79	0.08	1.18	0.010	4	6.1	13.5	22.70	47	10.67	31.67	21.00	33.00			
KEY 1	KEY 2	7.79	0.02	3.04	0.012	8	1.4	8.7	5.41	16	0.85	21.60	20.75	22.80			
KEY 3	KEY 10	7.79	0.08	5.97	0.012	8	5.4	17.1	20.83	6	1.25	21.00	19.75	22.70			
KEY 2	KEY 10	7.79	0.08	2.68	0.012	8	2.9	7.7	4.20	24	1.00	20.75	19.75	23.00			
KEY 10	CB L-1	7.79	0.18	3.91	0.012	8	4.2	11.2	8.92	30	2.65	19.75	17.10	22.00			

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

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ISSUED:

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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 Town consulting Engineer comments	10/24/2022
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Drawing Title:

**Grading and Utilities Plan**

Date: October 18, 2021

Dwn. by: alp

ID: 921 Soundview\_Site\_12-12-2022.1

C-102

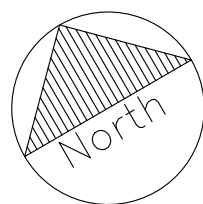
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GRAPHIC SCALE



( 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.

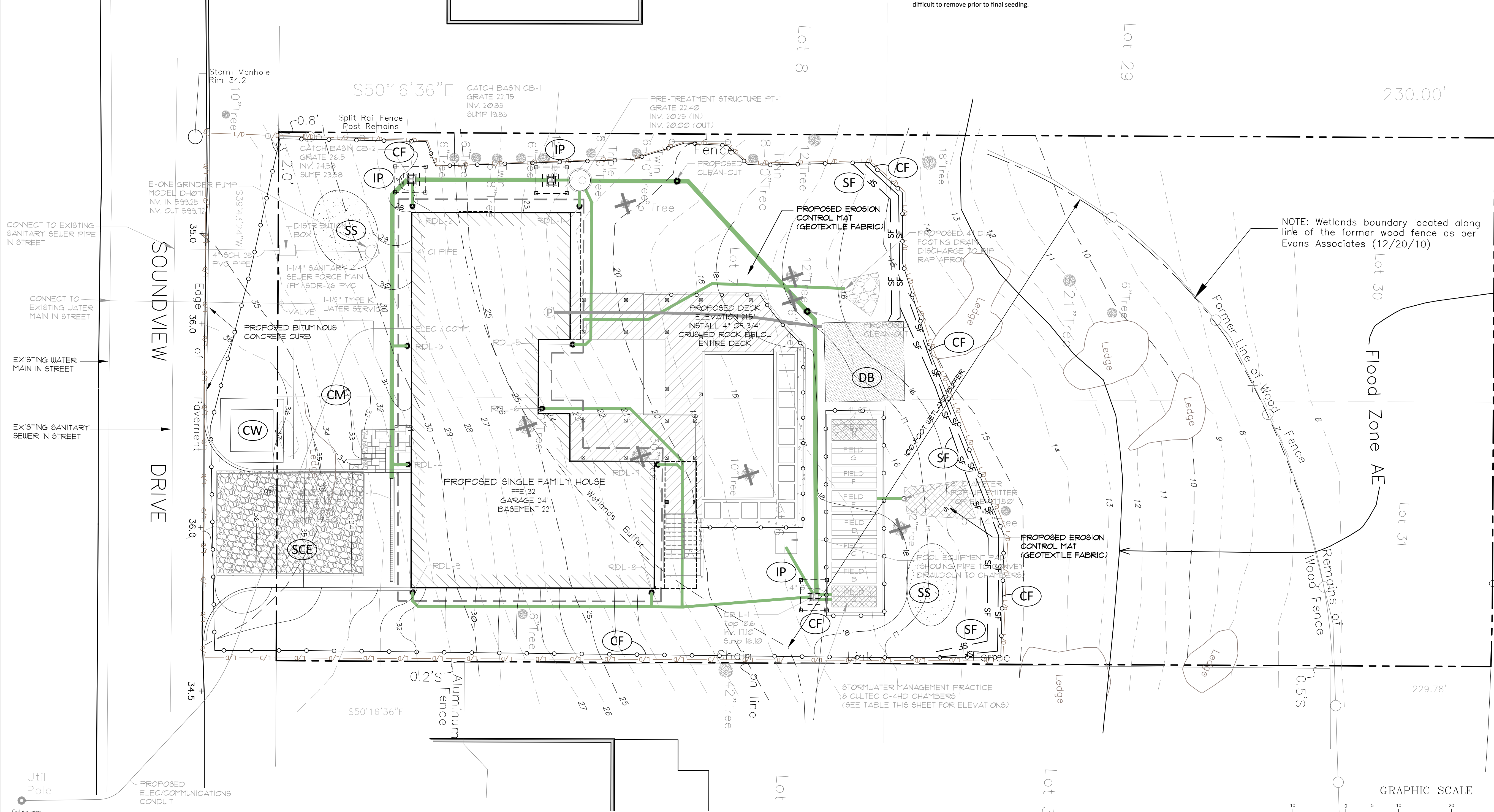
LEGEND

- 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
- U/S LIMIT OF DISTURBANCE LINE
- DB SILT/DEWATERING BAG

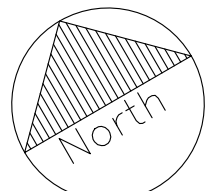
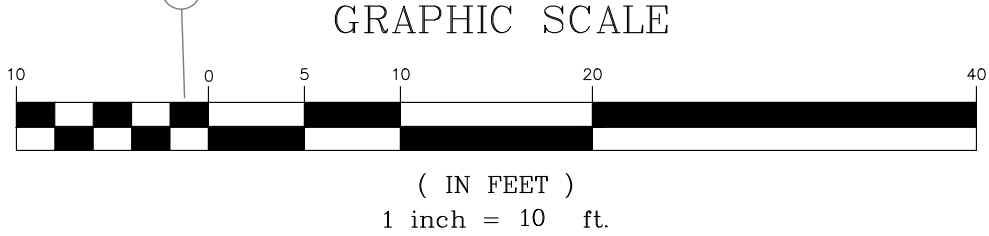
Util Pole



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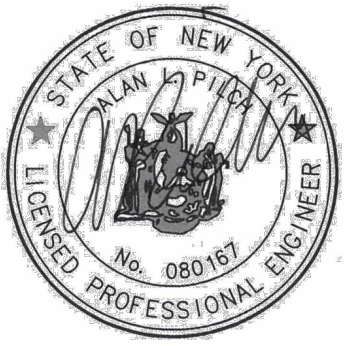
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Drawing Title:

**Erosion and Sediment Control Plan**

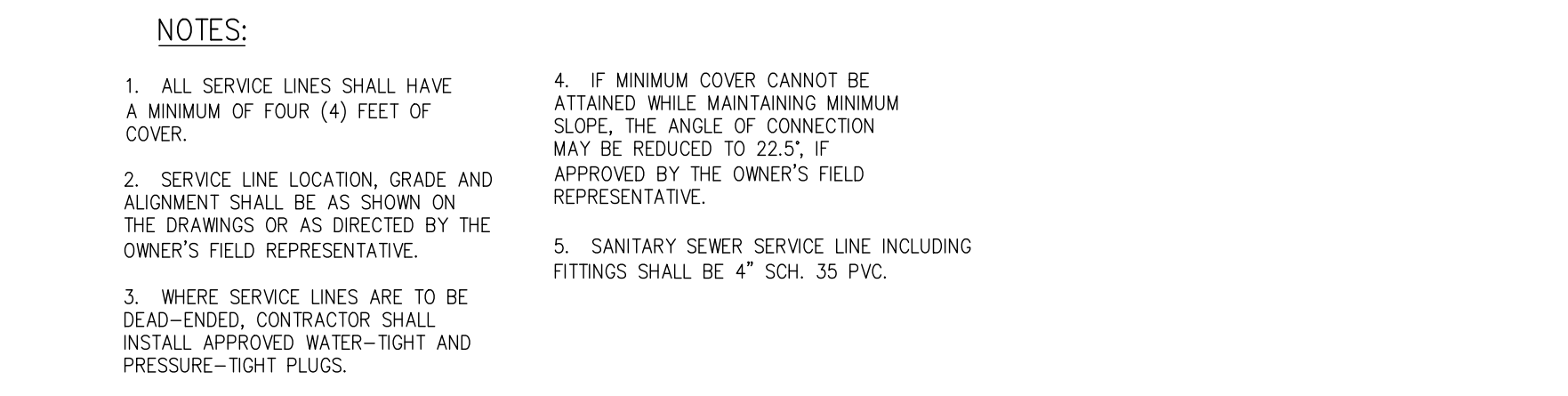
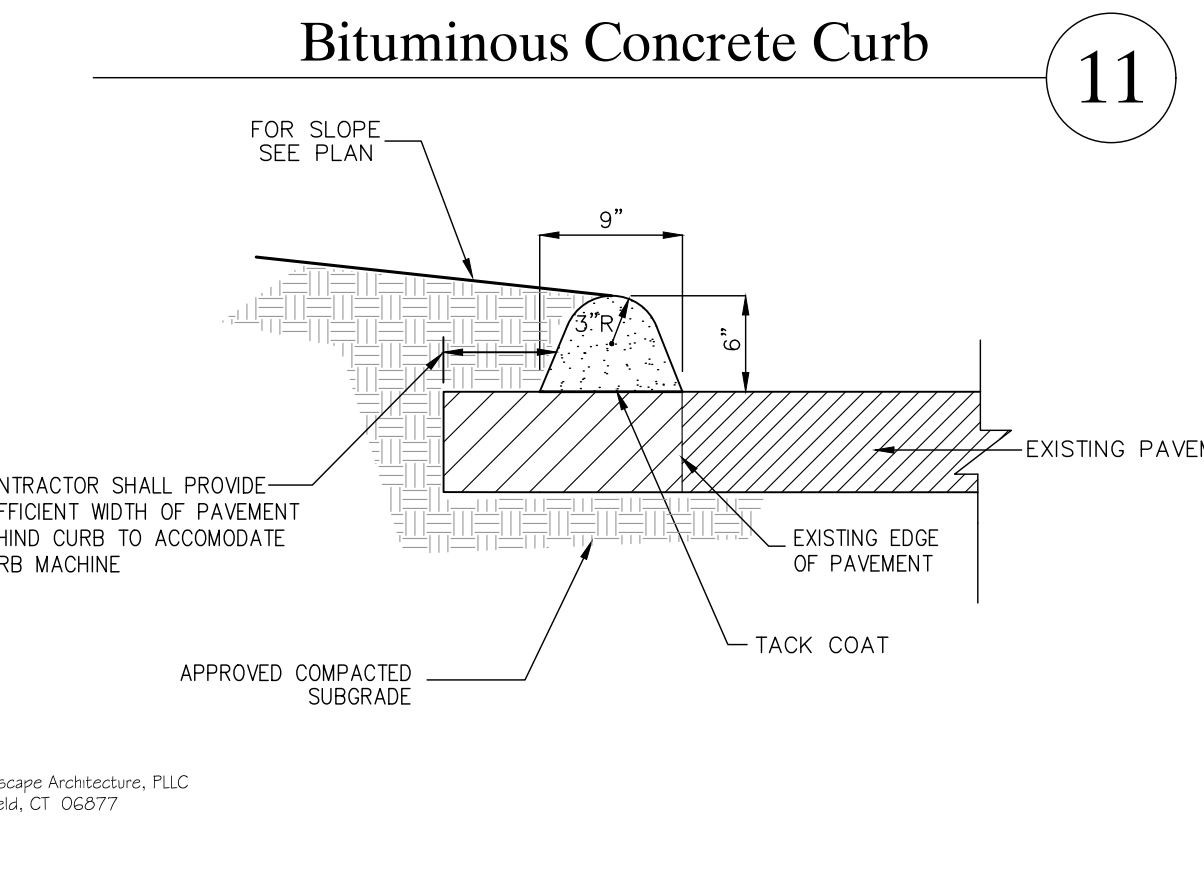
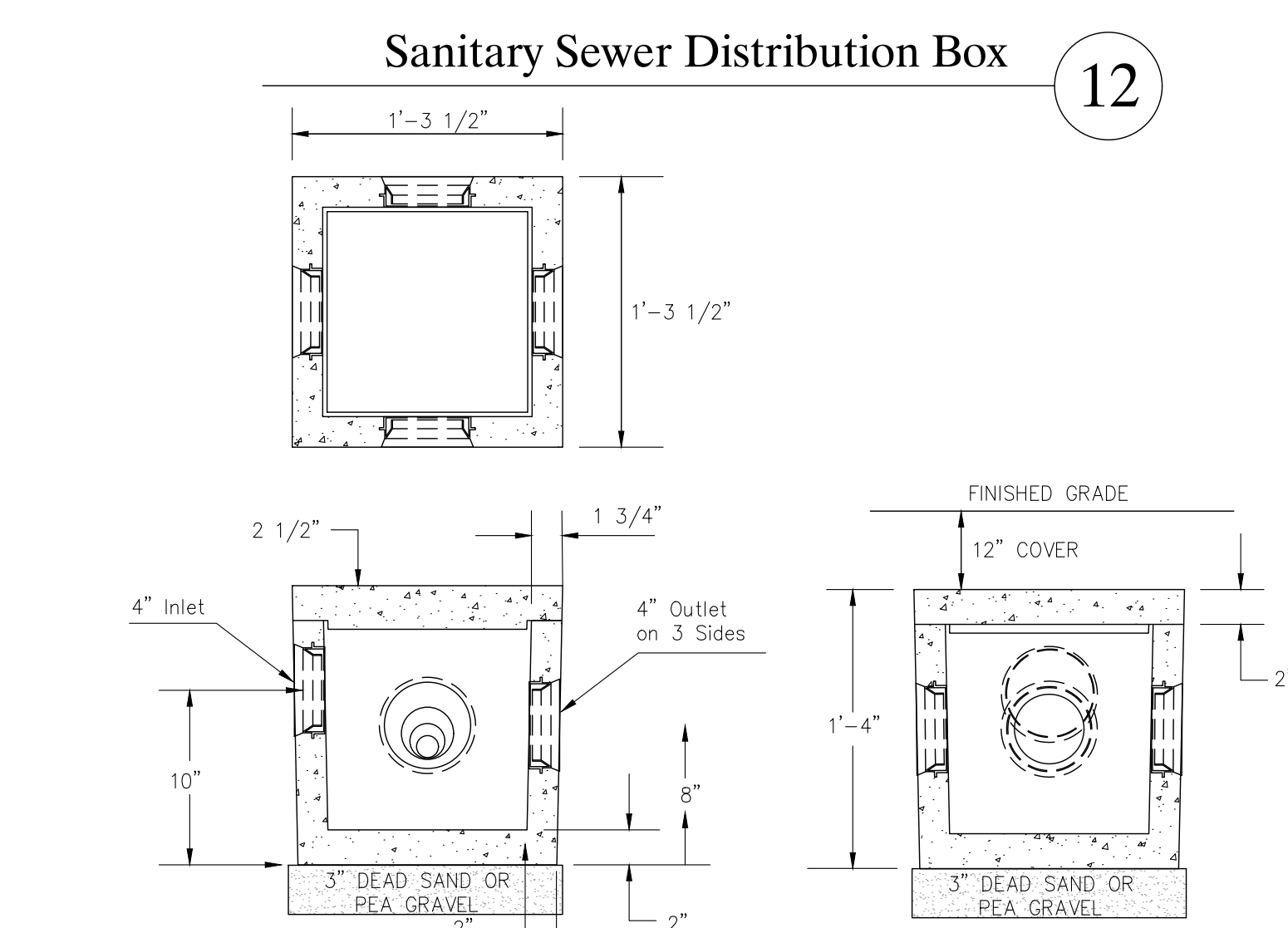
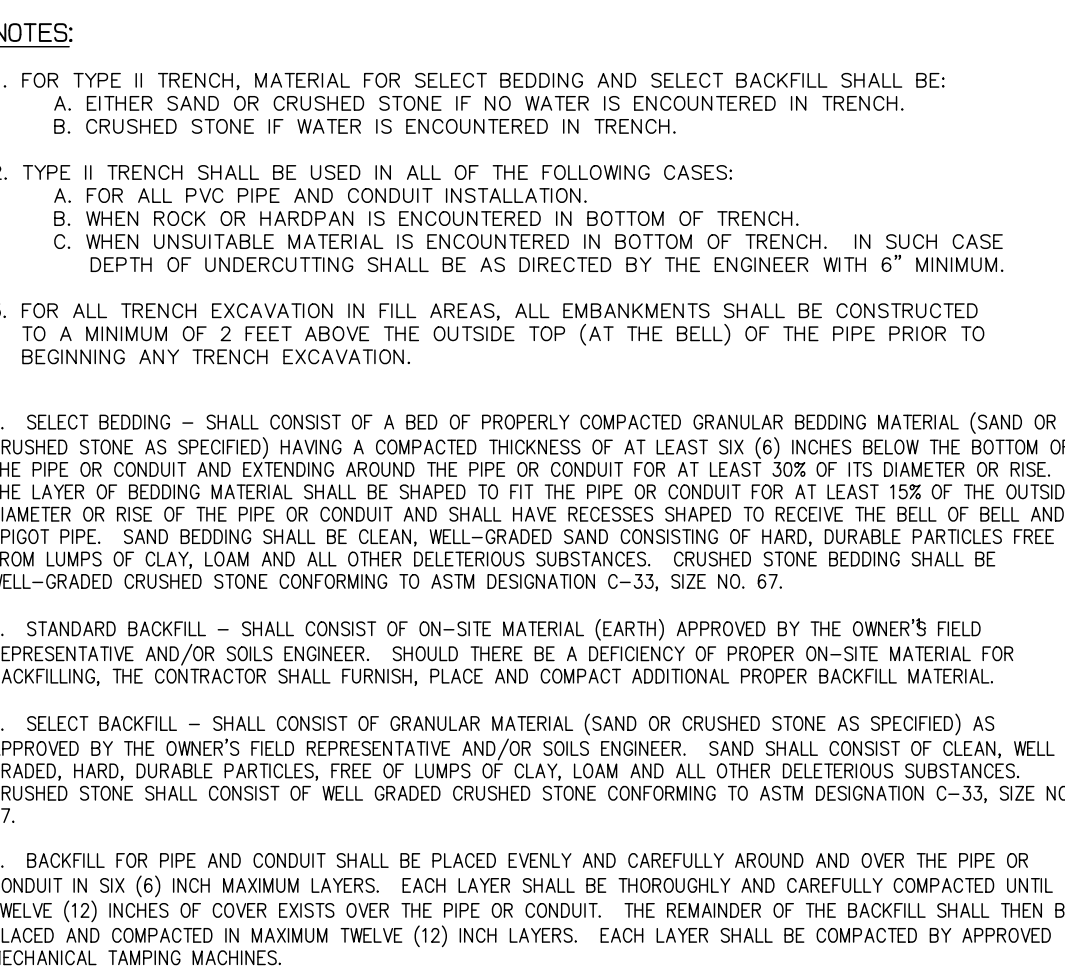
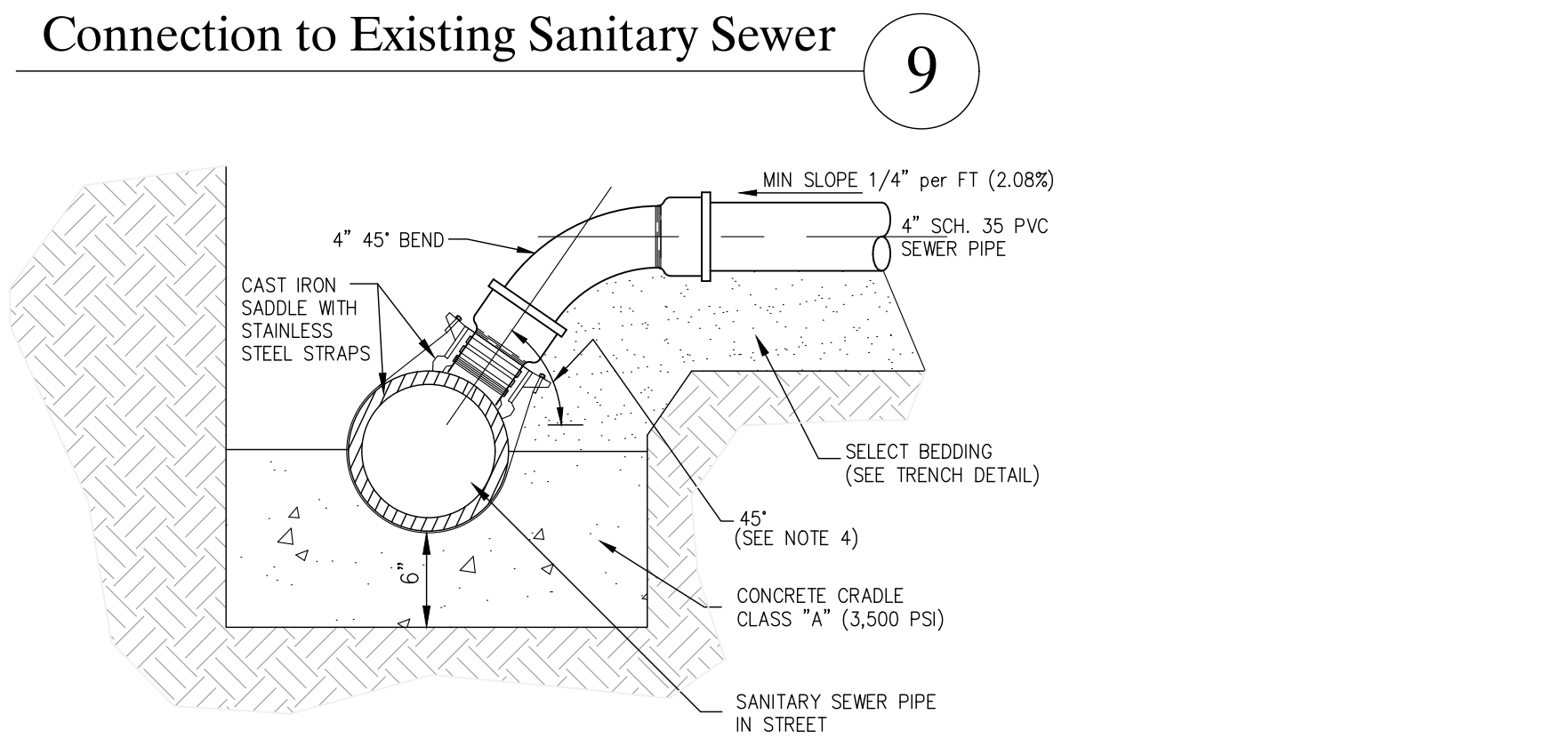
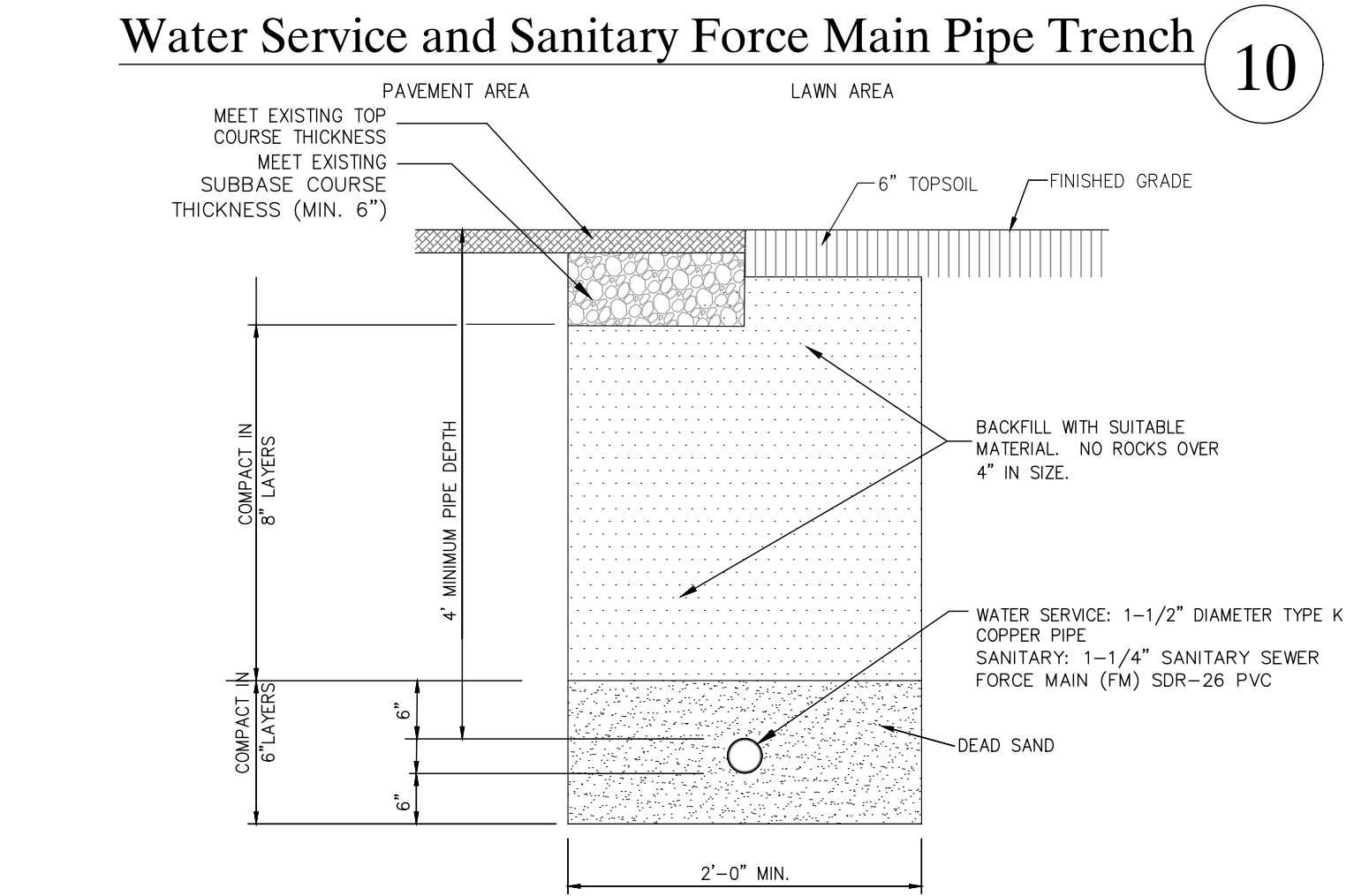
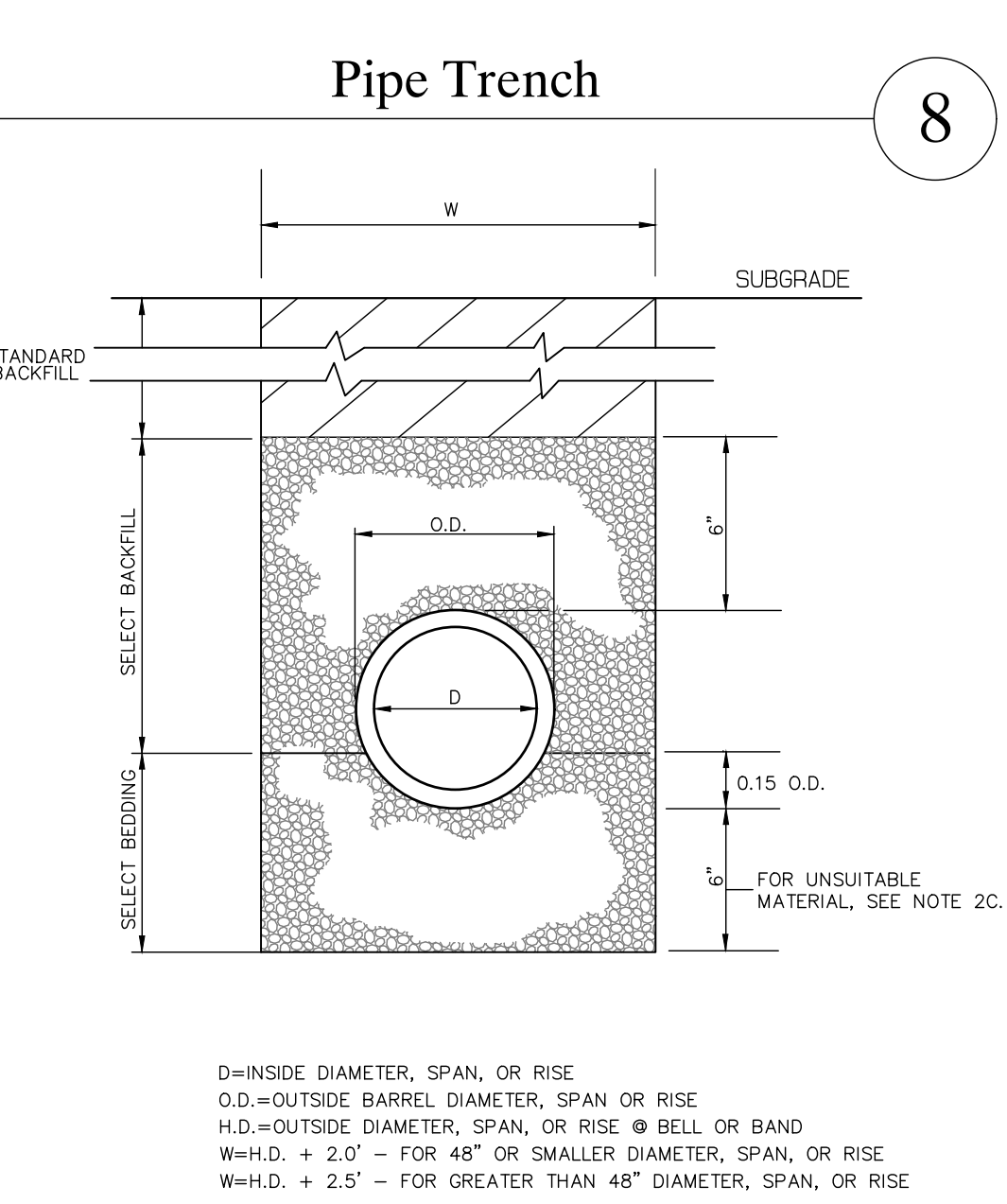
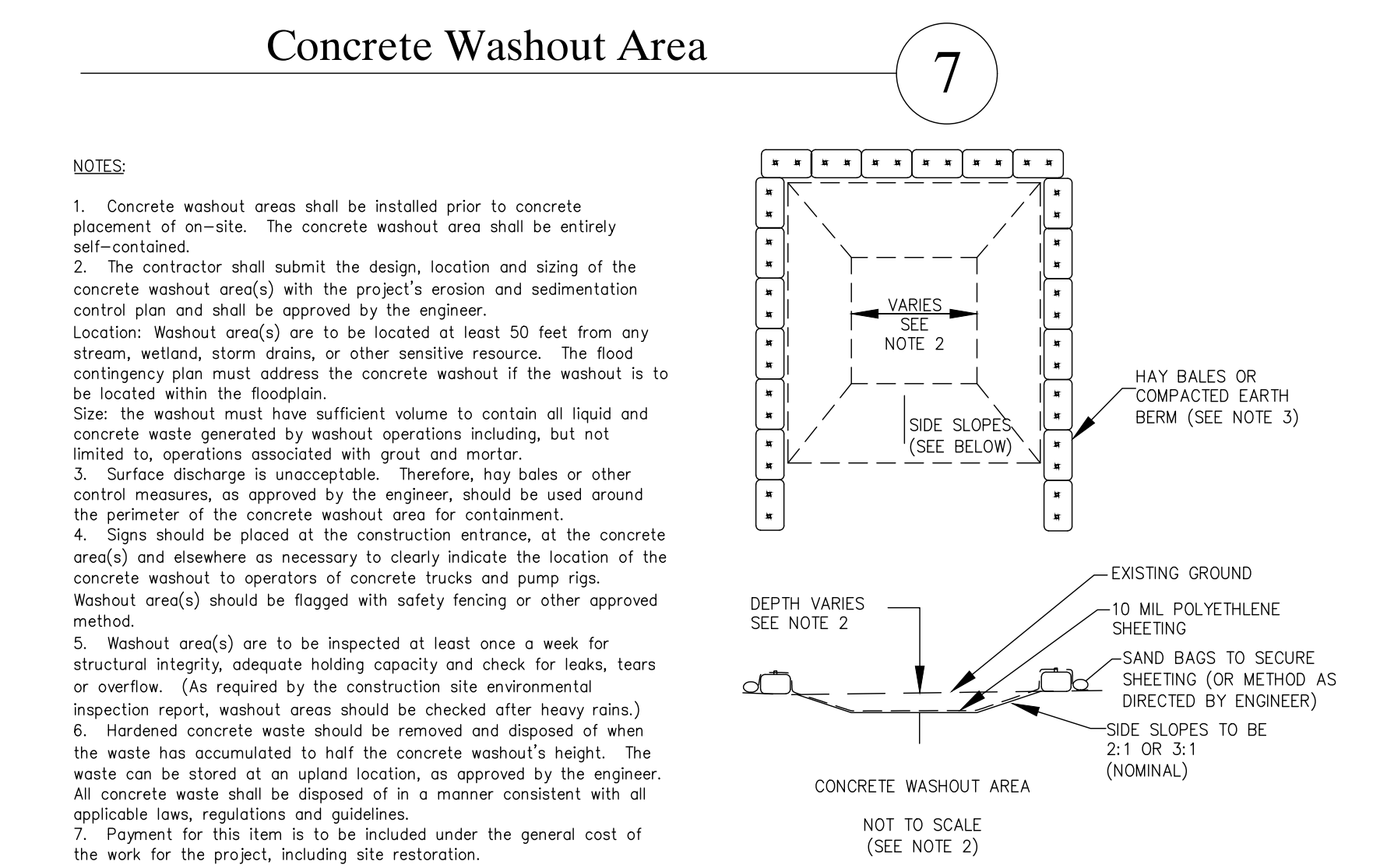
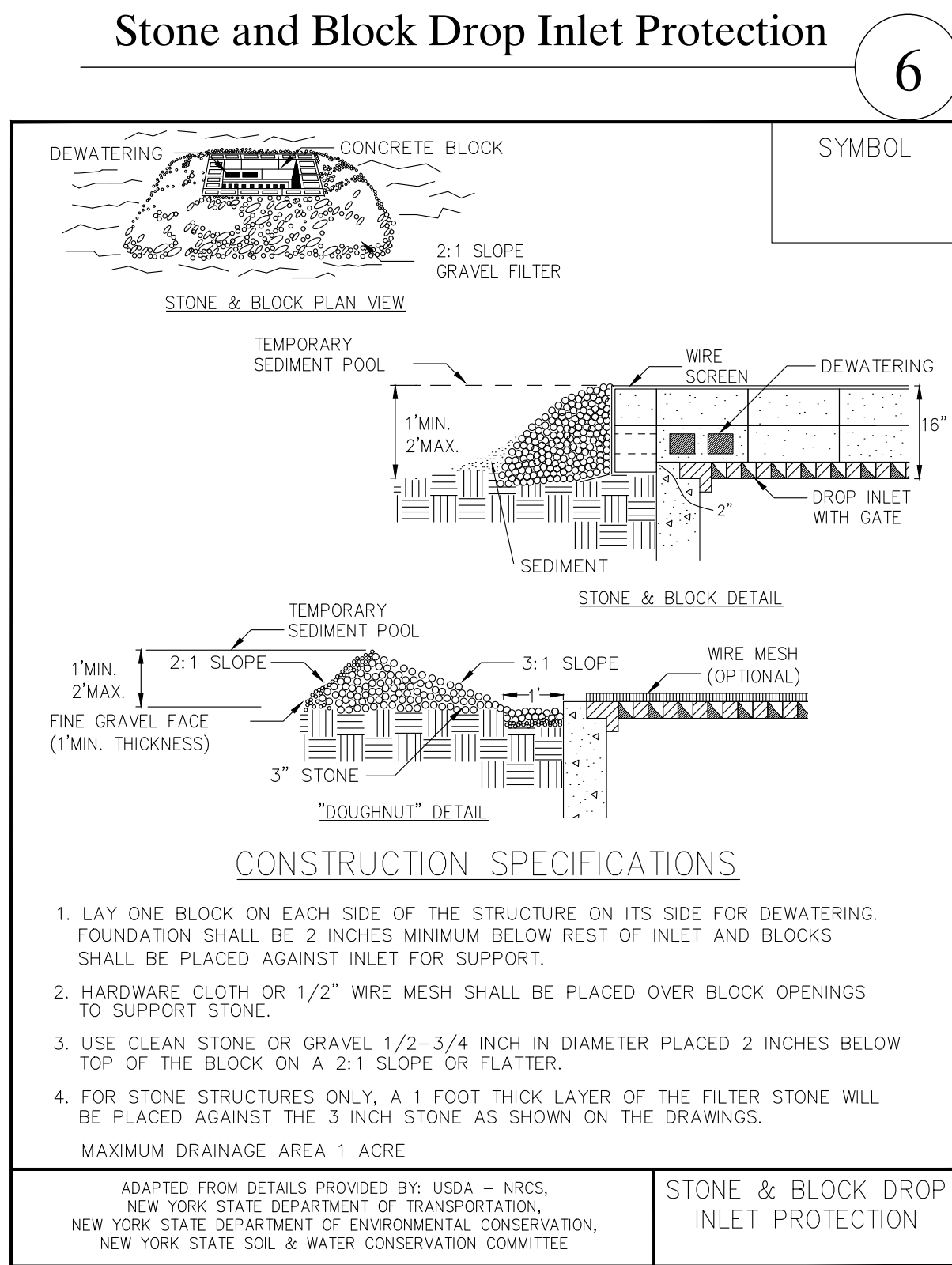
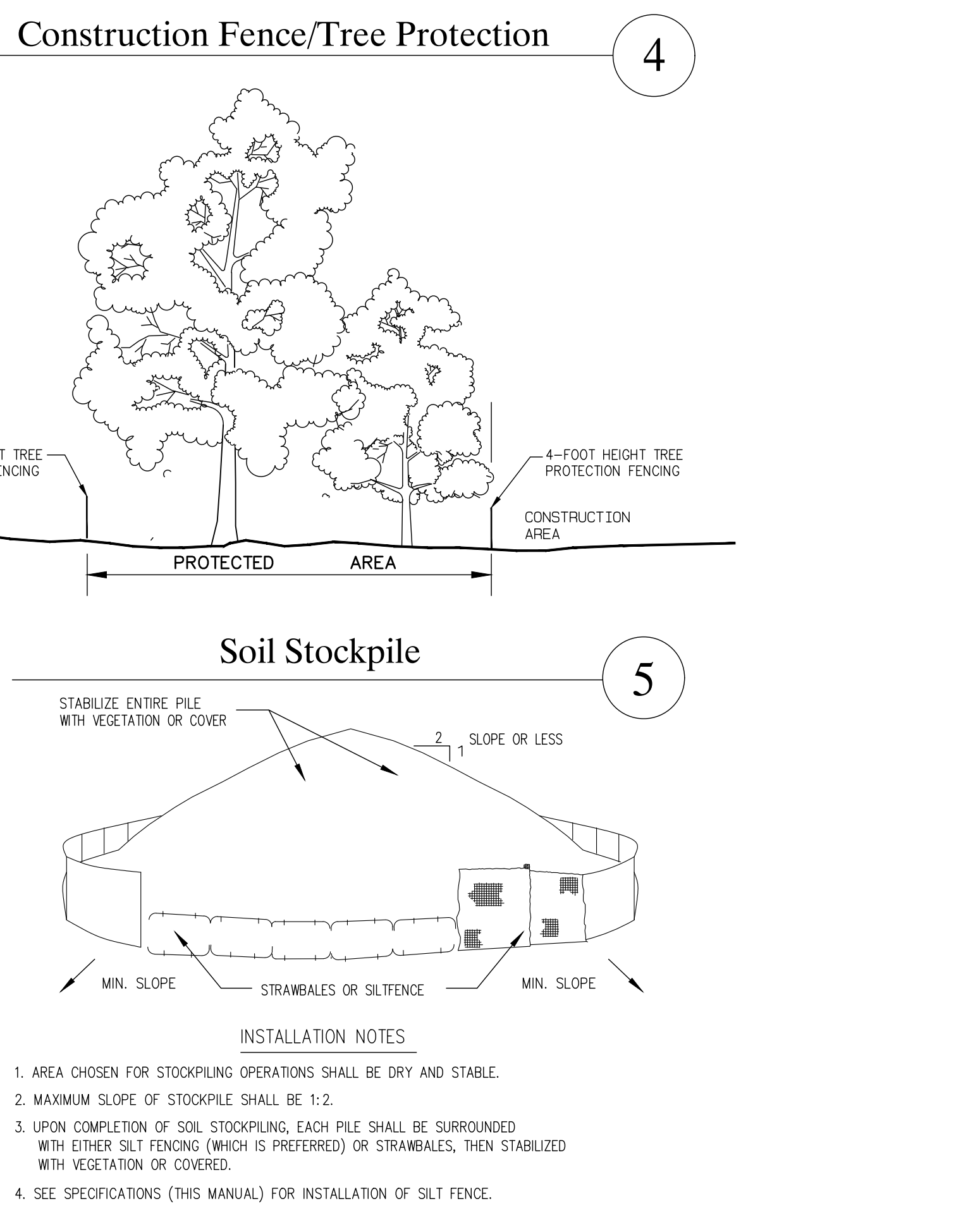
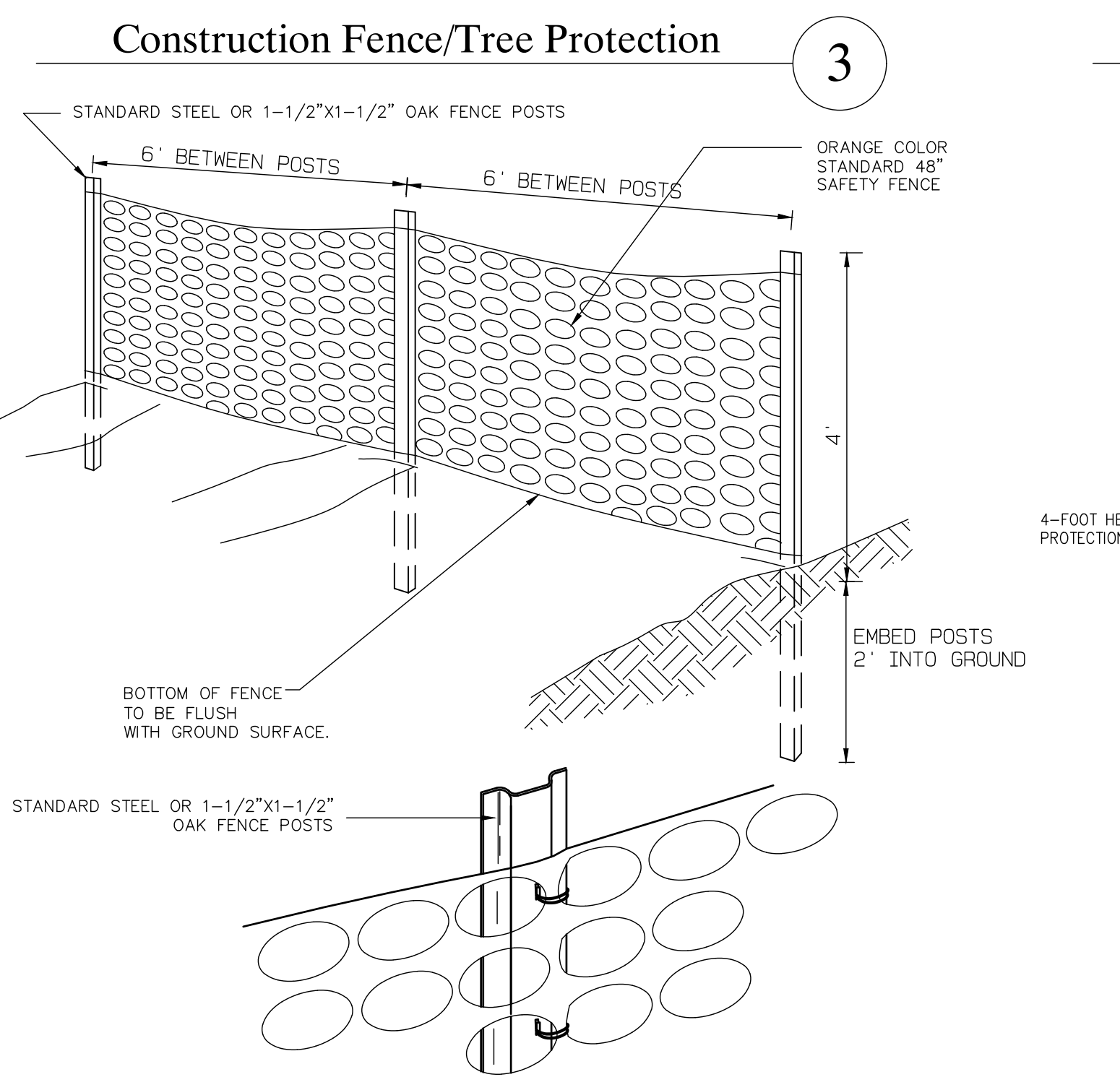
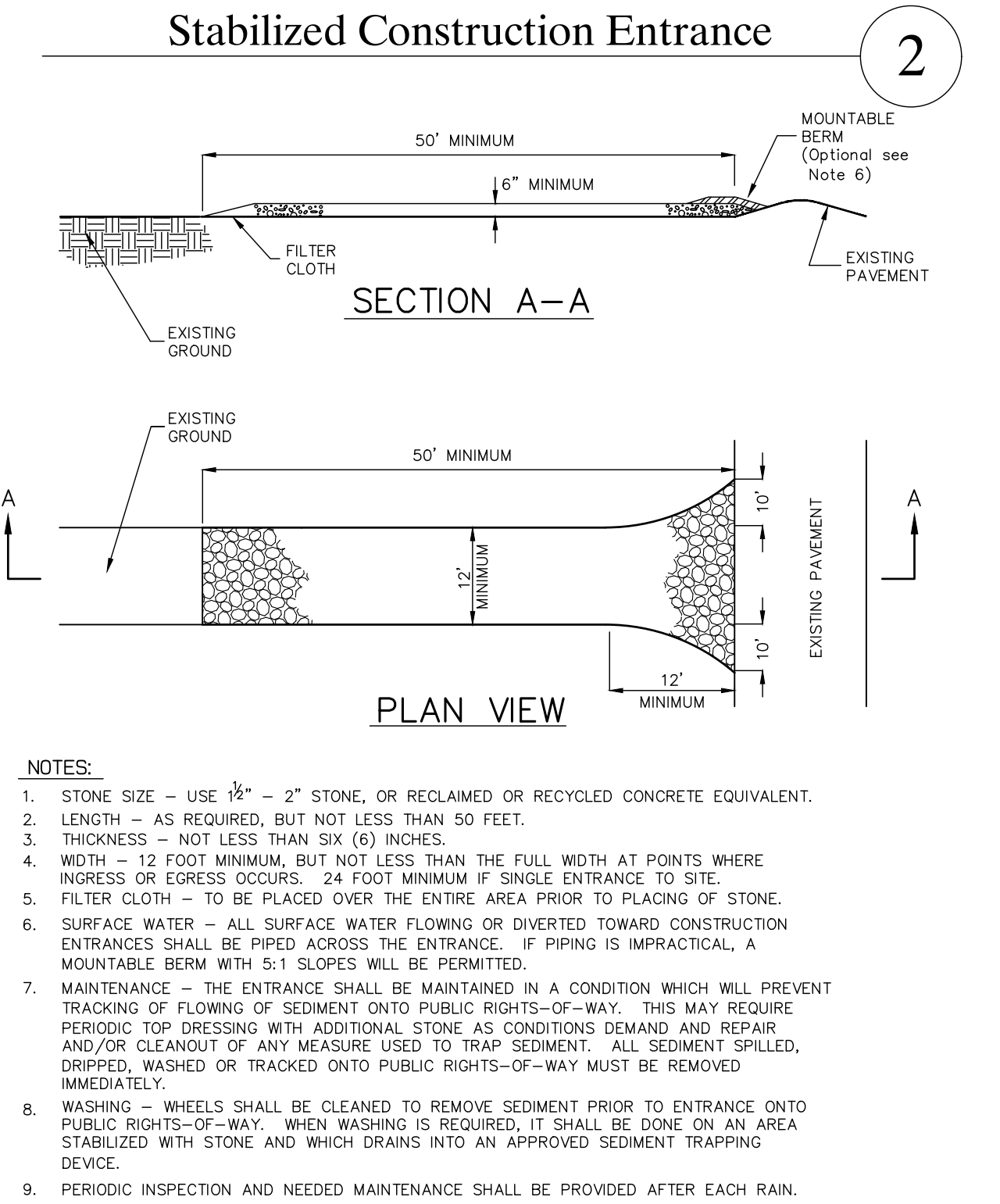
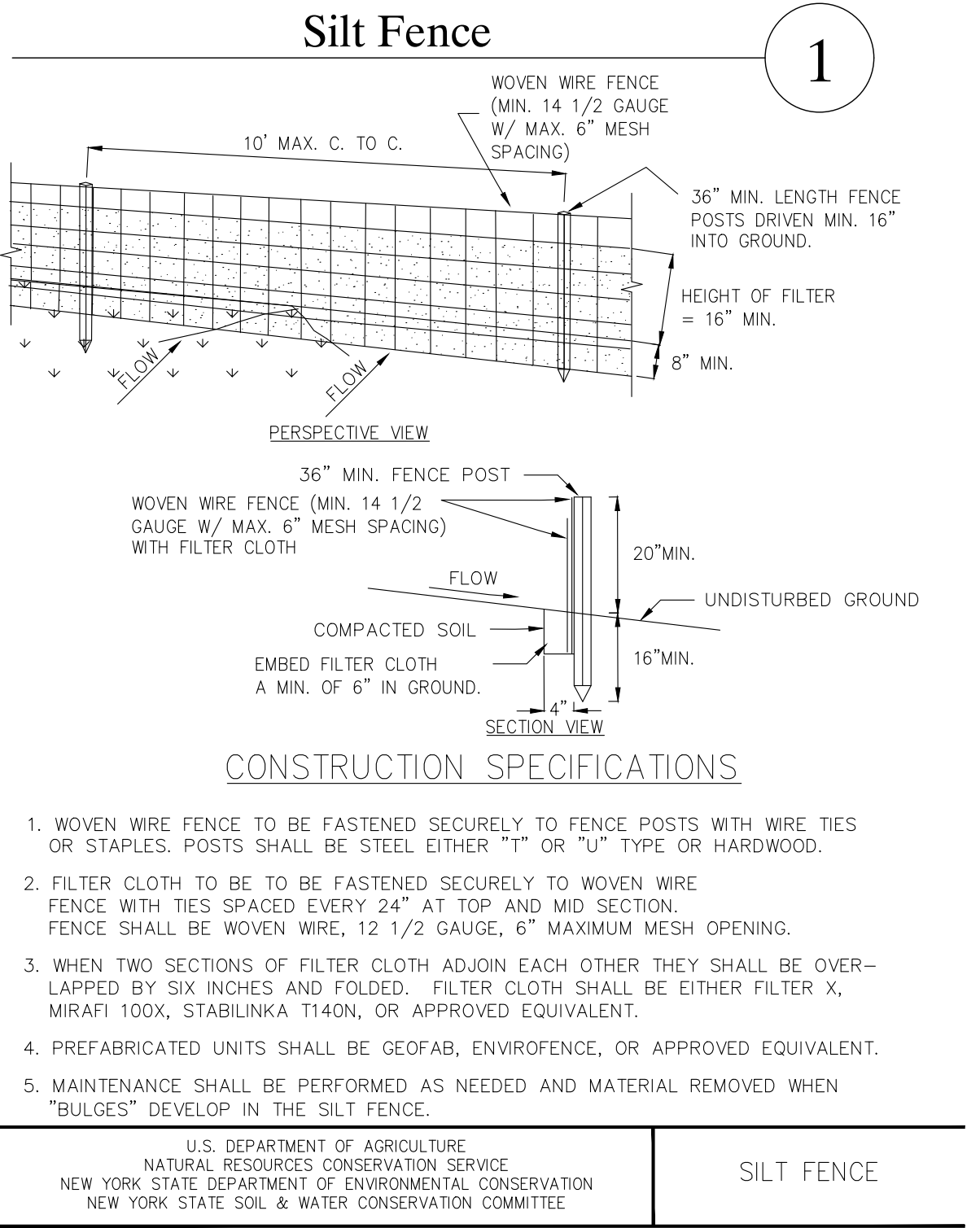
Date: October 18, 2021

Dwn. by: alp

ID: 921 Soundview\_Site\_12-12-2022.1

**C-103**

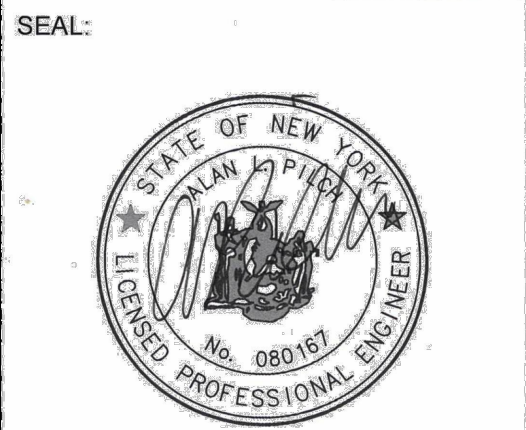




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Drawing Title:  
**Construction Details**

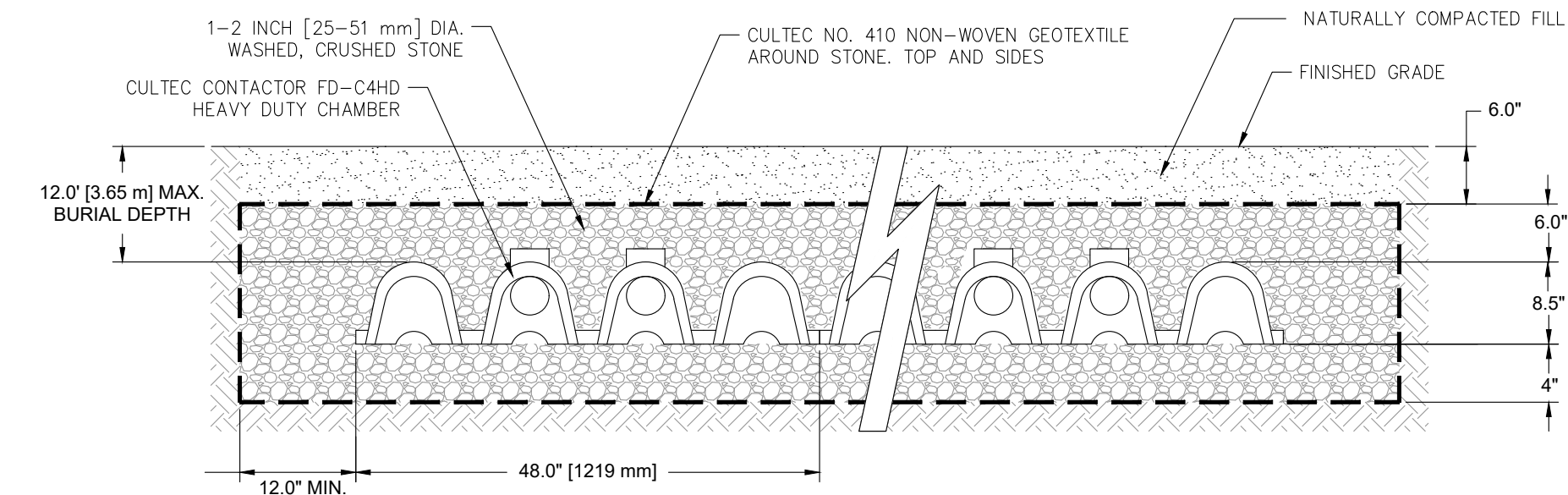
Date: October 18, 2021  
Dwn. by: alp  
ID: 921 Soundview\_Site\_12-12-2022





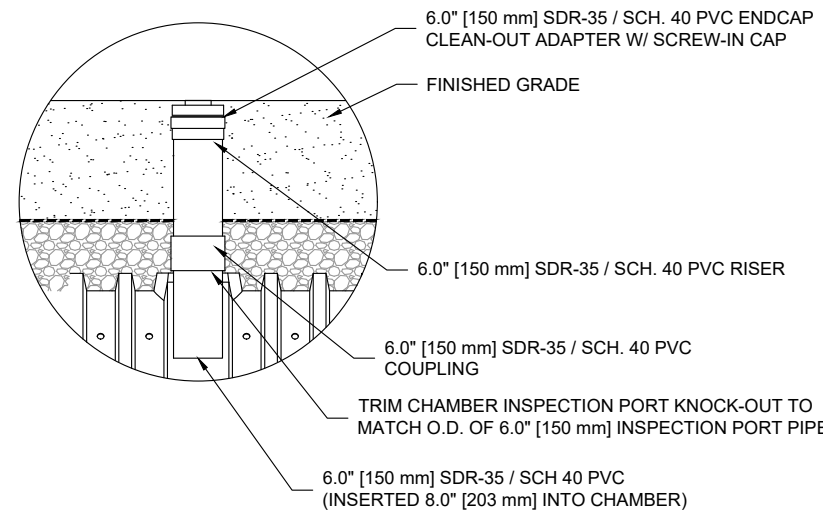
## Cultec C-4HD Chamber Installation

1



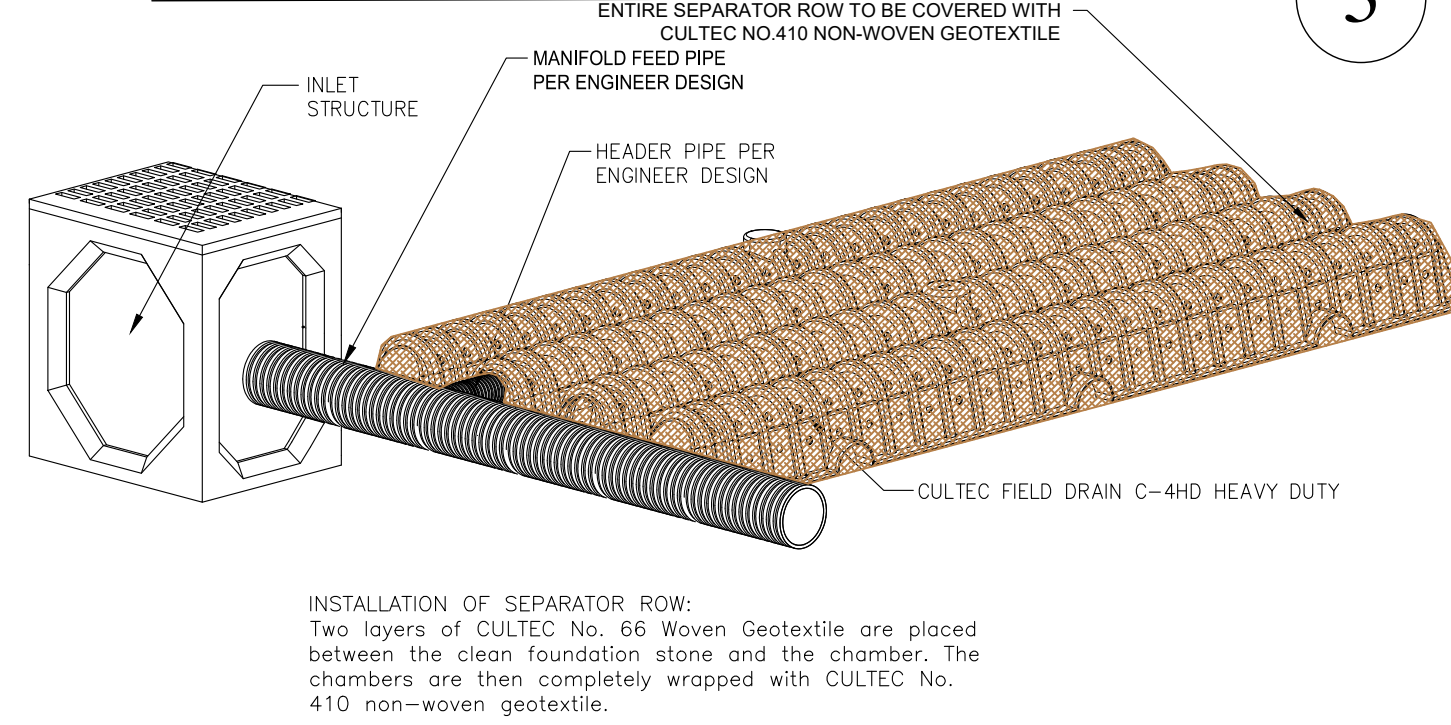
## Observation Port

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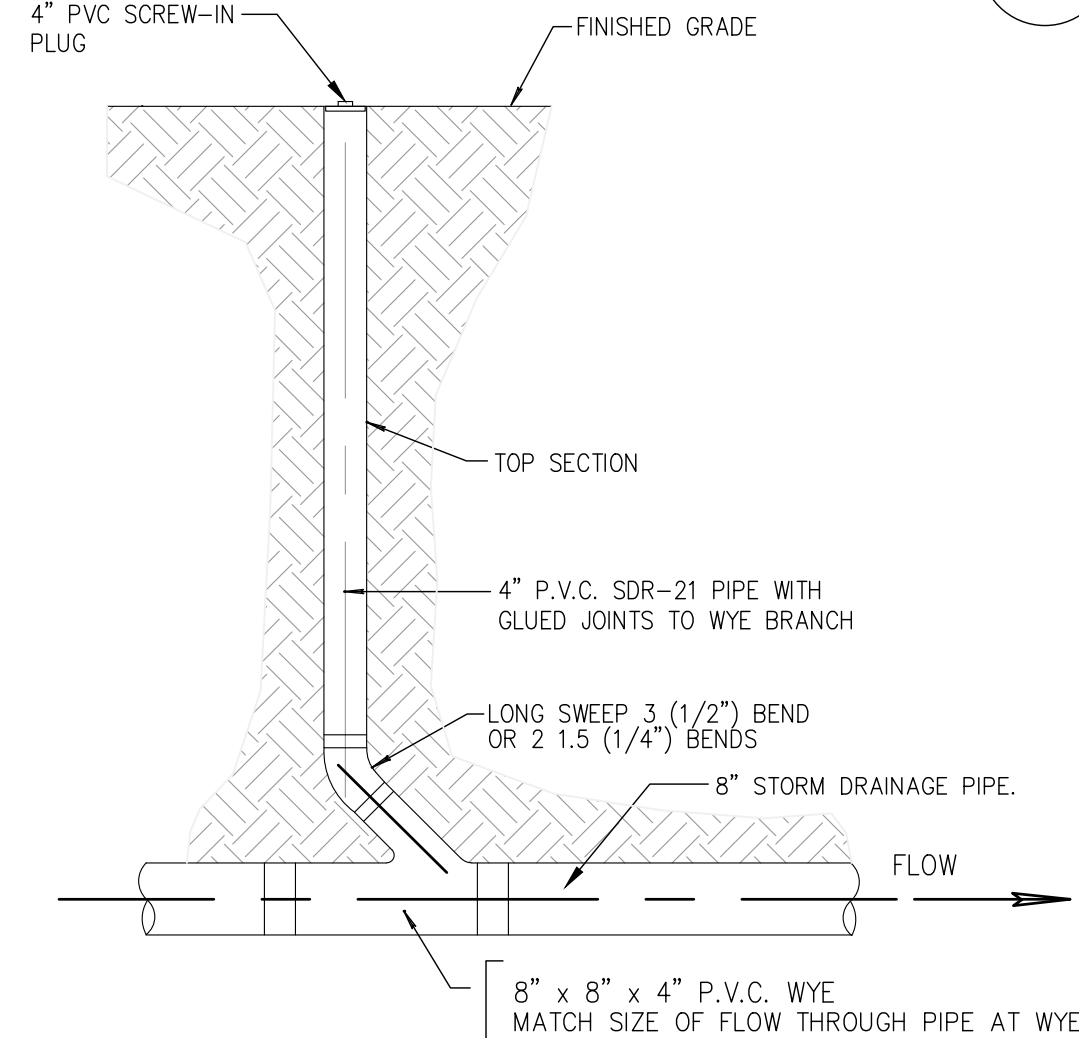
## Cultec Separator Row Installation

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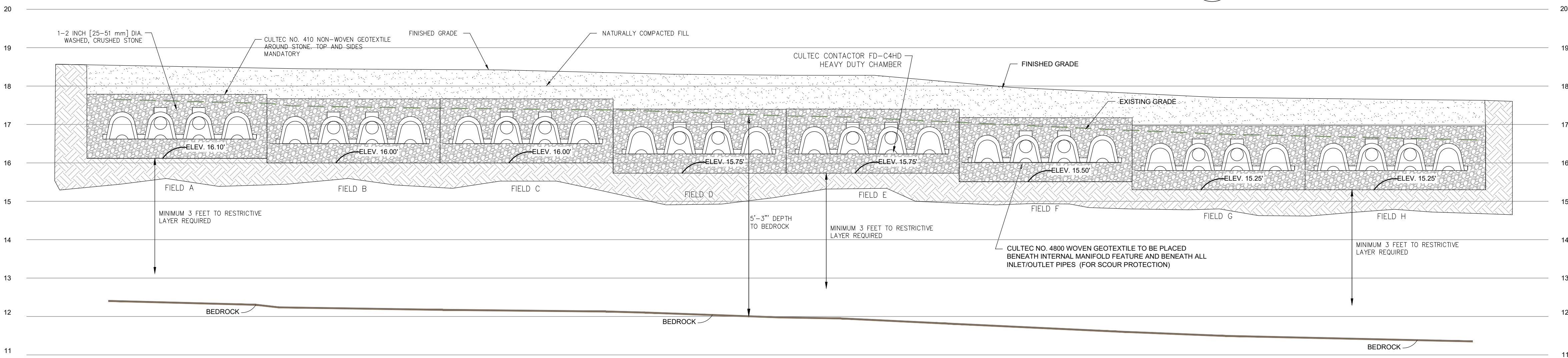


## Storm Drainage Clean-Out

4

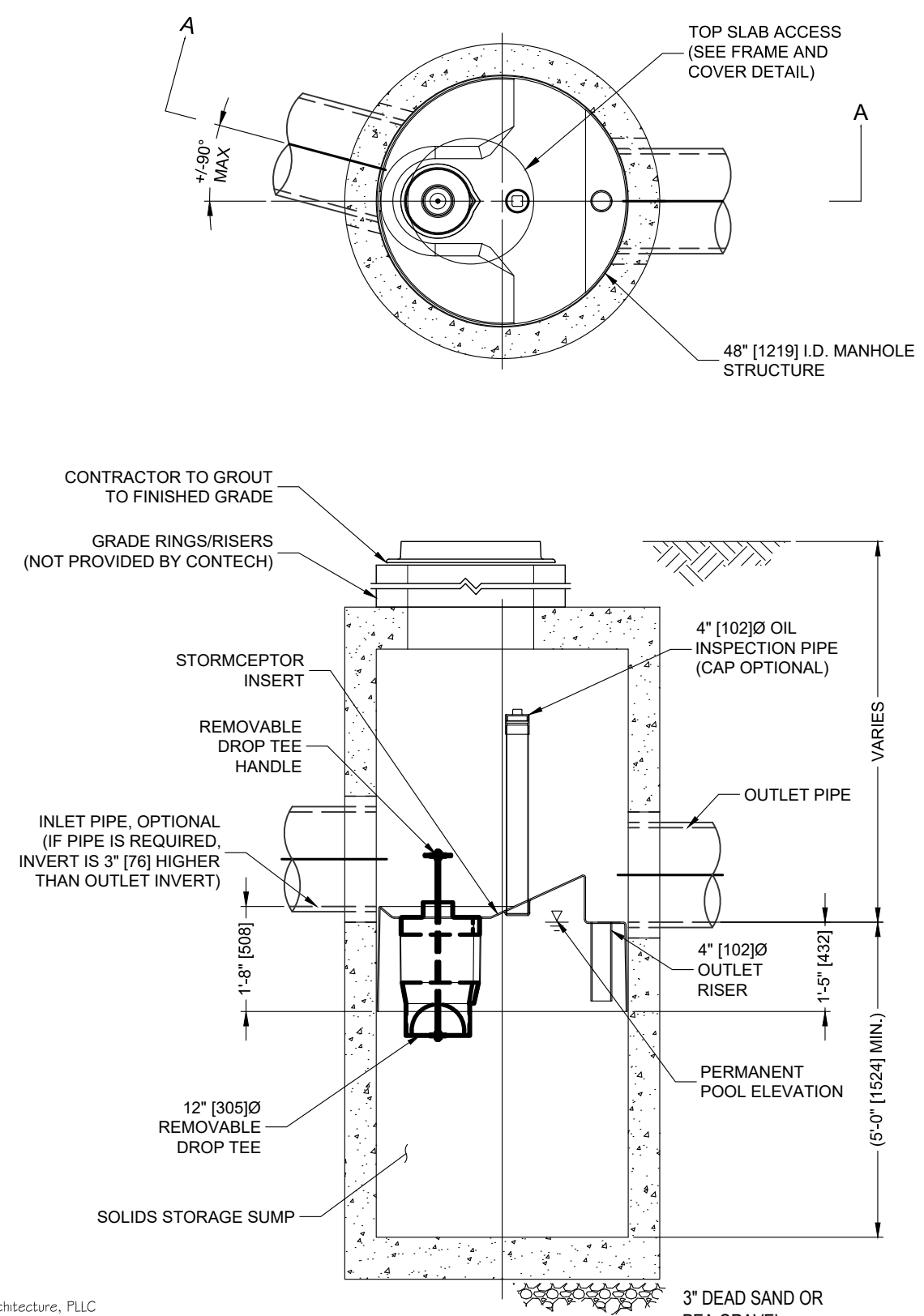


## Stormwater Management Practice Cultec C-4HD Chamber Installation

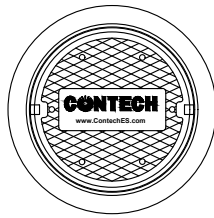


## Pre-Treatment Facility - Stormceptor 450i

6

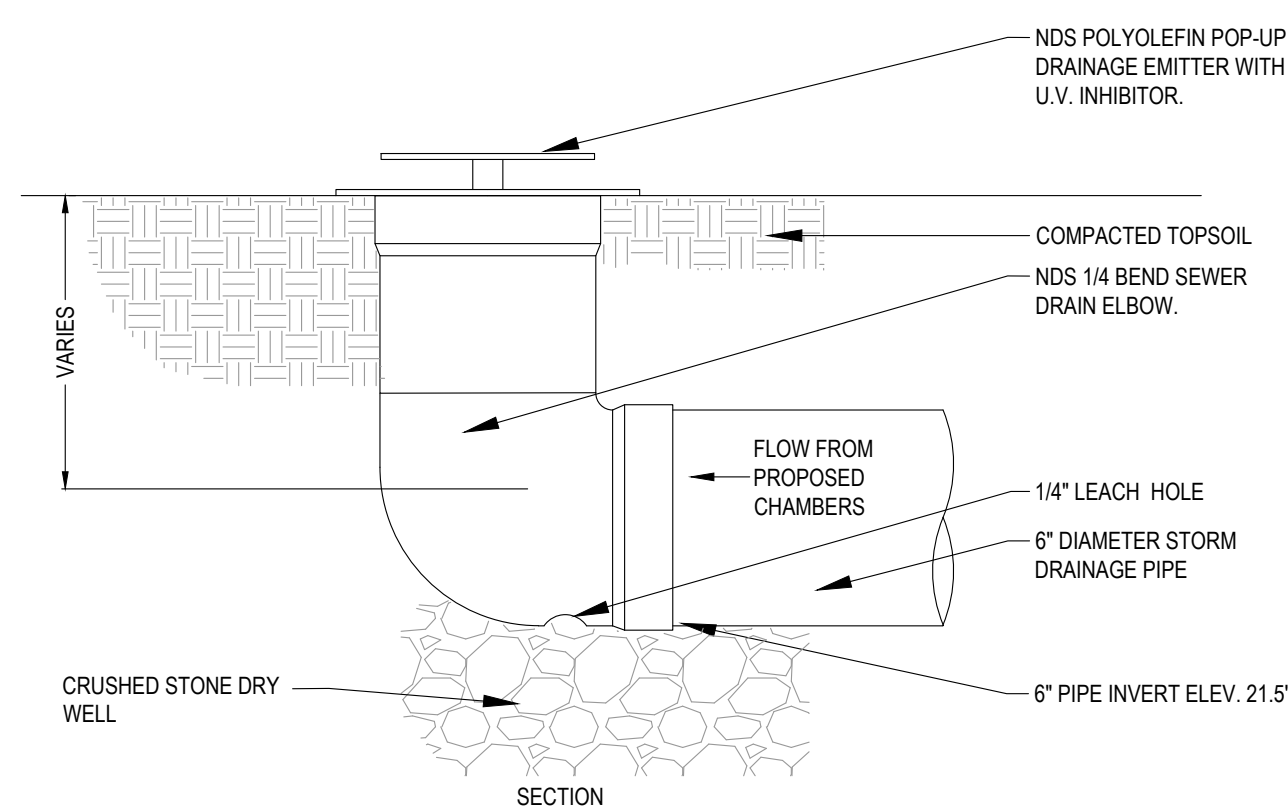


FRAME AND COVER  
(MAY VARY)  
NOT TO SCALE



## 6" Pop-Up Emitter

7



- 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.



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## MAINTENANCE OF STORMWATER DRAINAGE AND MANAGEMENT PRACTICES

**Subsurface Chambers** - The proposed subsurface chambers do not provide a direct means of access to the facility, although catch basins and observation ports will be provided to provide access to the chambers for maintenance, inspection and removal of accumulated sediment.

STORMWATER MANAGEMENT PRACTICE	MAINTENANCE AND INSPECTION MEASURES
Subsurface Chambers	<p><b>Inspect for:</b></p> <ul style="list-style-type: none"> <li>(i) Depth of sediment, if any, through inspection via the installed observation port on each row of the chambers during the first 2 to 3 months of operation, and thereafter on an annual basis.</li> <li>(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.</li> </ul> <p><b>Maintenance Measures include:</b></p> <ul style="list-style-type: none"> <li>(i) Observation of the depth of sediment, if any, through inspection via the installed observation port on each row of the chambers during the first 2 to 3 months of operation, and thereafter on an annual basis.</li> <li>(ii) Remove sediment from pre-treatment facility when the depth of sediment reaches 50% of capacity of the facility.</li> <li>(iii) Remove sediment from chambers when the depth of sediment is 3" in depth.</li> <li>(iv) The manufacturer of the chambers recommends cleaning of the stormwater management chambers every 9 years after installation and every 9 years thereafter.</li> <li>(v) The manufacturer also recommends that 45 years after installation, the chambers be inspected using closed circuit television (CCTV) or other comparable technique to determine the condition of the interior of the chambers, and rehabilitate or replace as may be necessary.</li> </ul>
Catch Basins	<p><b>Inspection Procedures:</b> Inspect the catch basins annually in the spring or summer. Inspect for: (i) sediment deposition or floatables in the structure, and (ii) structural integrity.</p> <p><b>Maintenance Tasks include:</b></p> <ul style="list-style-type: none"> <li>Remove grate or cover</li> <li>Skim off oils and floatables</li> <li>Using a yardstick, measure the depth of sediment</li> <li>If sediment is at a depth greater than 6", then vacuum or manually remove sediment. If not replace grate or cover.</li> <li>Record depth &amp; date when the work is done.</li> </ul>

Hydrodynamic Separators Maintenance Procedures	<p><b>Inspection Procedures:</b> Inspect the hydrodynamic separator annually in the spring. Inspect for: (i) sediment deposition or floatables in the structure, and (ii) structural integrity.</p> <p><b>Maintenance Tasks include:</b></p> <p>Clean out the unit once the sediment depth reaches the recommended maintenance sediment depth, which is approximately 15% of the unit's total storage capacity (see table below). The frequency may be adjusted based on historical inspection results due to variable site sediment loading.</p> <table border="1"> <tr> <th>STC Model</th><th>Maintenance Sediment Depth (in inches)</th></tr> <tr> <td>STC 450i</td><td>8</td></tr> </table> <p>Equipment is typically required for inspection includes:</p> <ul style="list-style-type: none"> <li>Manhole access cover lifting tool</li> <li>Oil dipstick / Sediment probe with ball valve (typically 3/4-inch to 1-inch diameter)</li> <li>Flashlight</li> <li>Camera</li> <li>Data log / Inspection Report</li> <li>Safety cones and caution tape</li> <li>Hard hat, safety shoes, safety glasses, and chemical-resistant gloves</li> </ul>	STC Model	Maintenance Sediment Depth (in inches)	STC 450i	8
STC Model	Maintenance Sediment Depth (in inches)				
STC 450i	8				
Hydrodynamic Separators Maintenance Procedures	<p>Stormceptor is to be inspected from grade through a standard surface manhole access cover. Sediment and oil depth inspections are performed with a sediment probe and oil dipstick.</p> <ul style="list-style-type: none"> <li>Oil depth is measured through the oil inspection port, either a 4-inch or 6-inch diameter port.</li> <li>Sediment depth can be measured through the oil inspection port or the 24-inch diameter outlet riser pipe.</li> <li>Inspections also involve a visual inspection of the internal components of the system</li> <li>Ideally maintenance should be conducted during dry weather conditions when no flow is entering the unit.</li> <li>Stormceptor is to be maintained through a standard surface manhole access cover</li> <li>Insert the oil dipstick into the oil inspection port. If oil is present, pump off the oil layer into separate containment using a small pump and tubing.</li> <li>Maintenance cleaning of accumulated sediment is performed with a vacuum truck.</li> <li>For 6-ft diameter models and larger, the vacuum hose is inserted into the lower chamber via the 24-inch outlet riser pipe.</li> <li>For 4-ft diameter model, the removable drop tee is lifted out, and the vacuum hose is inserted into the lower chamber via the 12-inch drop tee hole.</li> </ul>				

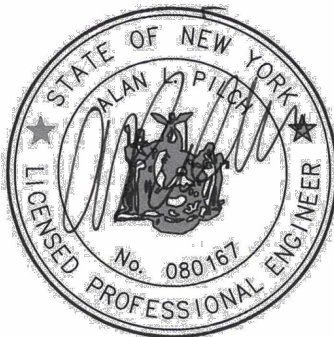
CONSULTANTS:  
PROJECT ARCHITECT:  
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Nexus Creative Design  
Architecture Planning & Design  
100 White Plains Road  
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Tel: (914) 740 - 4774 | (914) 204 - 6404

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 Town consulting Engineer comments	10/24/2022
Rev. as per HCZM and Town consulting Engineer comments	11/15/2022
Rev. as per HCZM and Town consulting Engineer comments	11/28/2022
Rev. as per HCZM and Town consulting Engineer comments	12/14/2022

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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

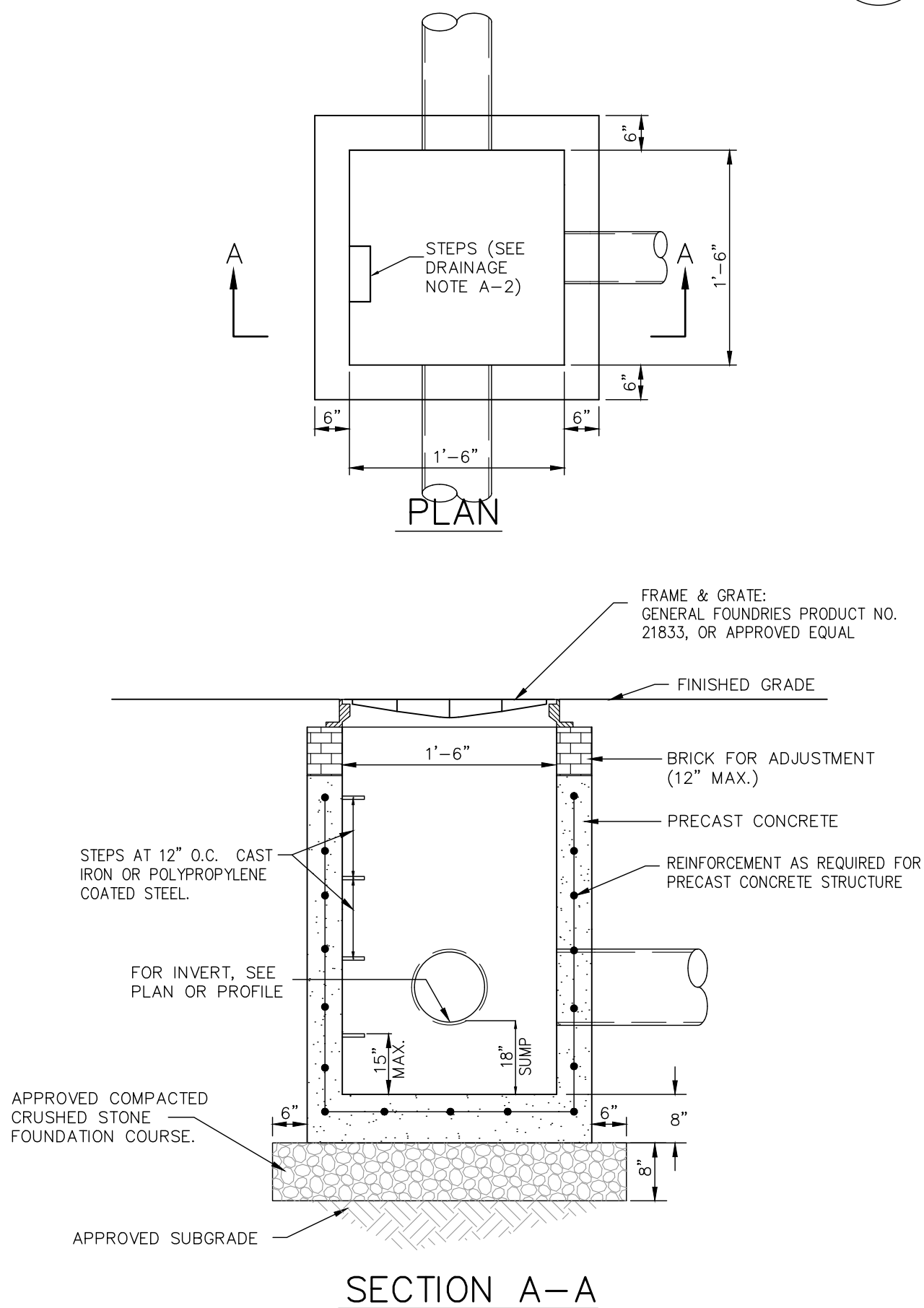
Drawing Title:  
**Construction Details**  
Date: October 18, 2021  
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C-112



## Catch Basin

1

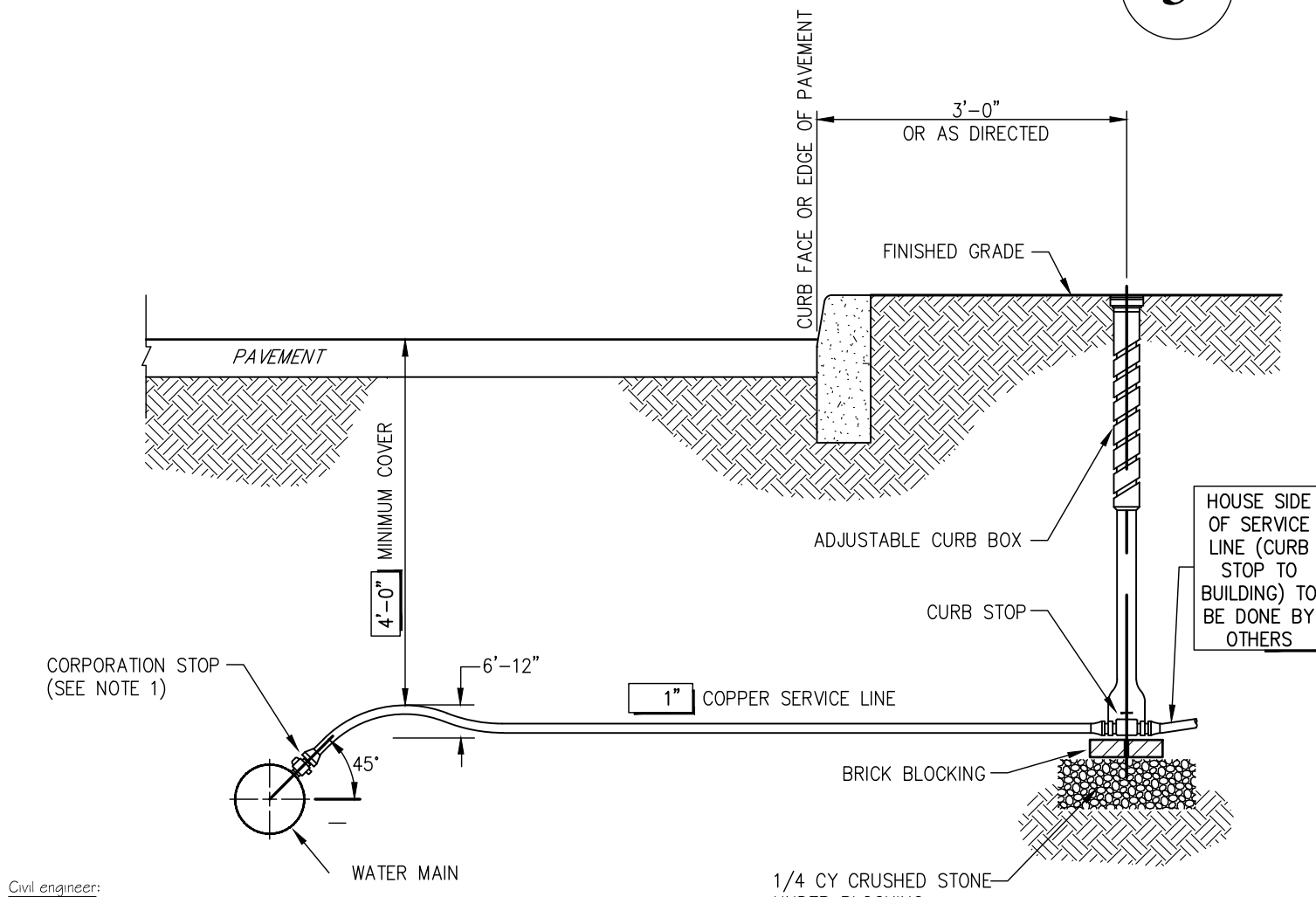


### NOTES PERTAINING TO DRAIN INLETS, MANHOLES AND SUBSURFACE STORMWATER DETENTION FACILITIES

- 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
- STEPS WILL NOT BE REQUIRED IN INLETS LESS THAN FOUR (4) FEET IN DEPTH. STEPS WILL BE REQUIRED IN INLETS FOUR (4) FEET OR GREATER IN DEPTH.
- WHEN STEPS ARE REQUIRED, STEPS SHALL COMPLY WITH THE SAME REQUIREMENTS OF ASTM STANDARD C-478, ARTICLE 13 ENTITLED "MANHOLE STEPS & LADDERS".
- 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" (3,500 psi) CONCRETE, TWELVE (12) INCHES THICK AND SHALL EXTEND SIX (6) INCHES BEYOND THE OUTSIDE FACE OF THE STRUCTURE.
- 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.
- ALL NECESSARY PATCHING FOR DRAIN STRUCTURES SHALL BE ACCOMPLISHED WITH NON-SHRINKING CEMENT MORTAR GROUT, APPROVED EQUAL TO SIKKA-SET AS MANUFACTURED BY THE SIKKA CHEMICAL CORP.
- 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.
- ALL PIPES SHALL BE CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.
- PROVIDE REINFORCED CONCRETE TOP SLAB FOR OVERSIZED DRAIN INLETS WITH PROPER SIZE OPENING TO ACCOMMODATE INSTALLATION OF FRAME & GRATE.
- FOR MASONRY STRUCTURES GREATER THAN TWELVE (12) FEET IN DEPTH, THICKNESS OF MASONRY WALLS SHALL BE INCREASED TO TWELVE (12) INCHES.

## Water Service Connection

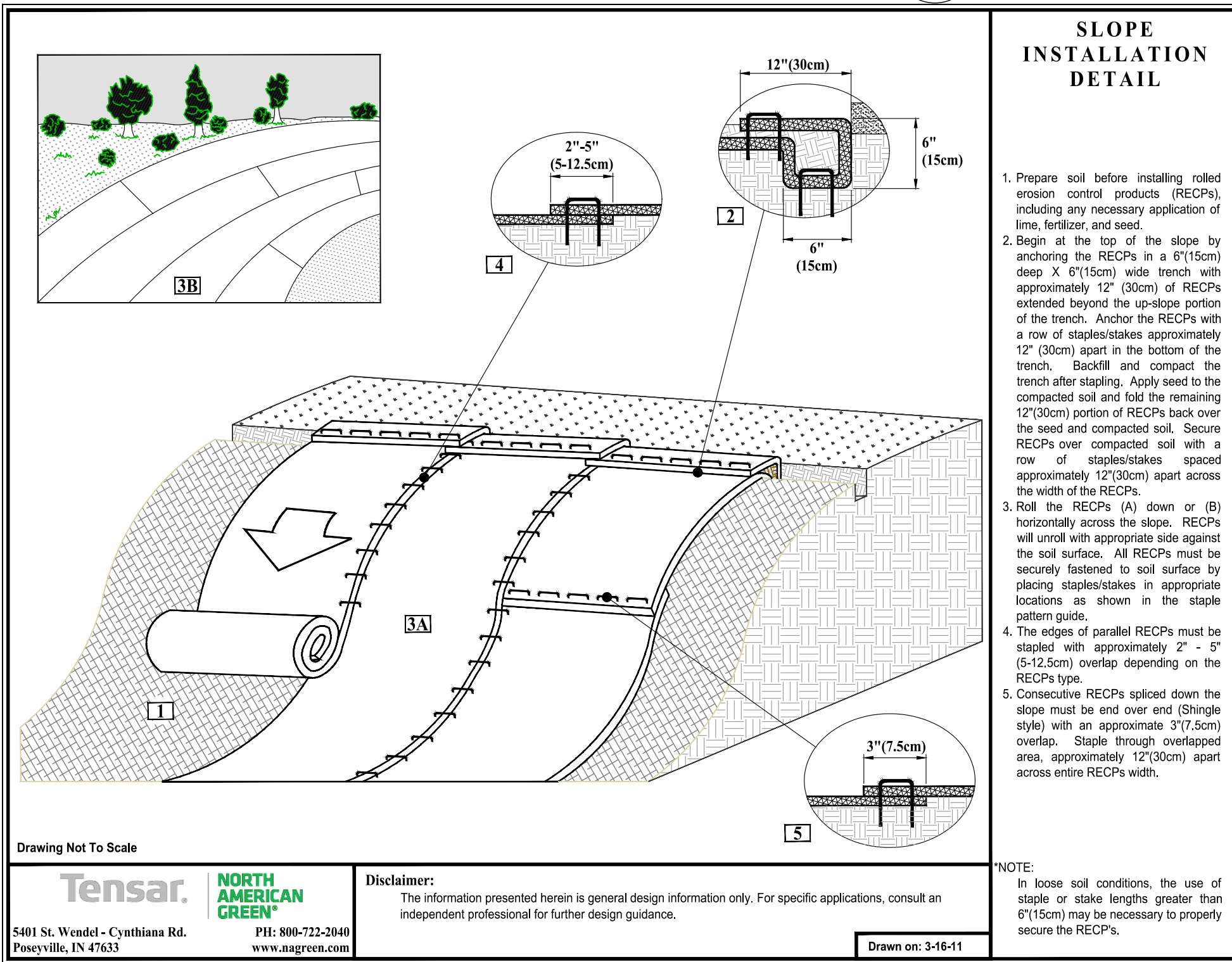
5



Civil engineer:  
Alan L. Pich  
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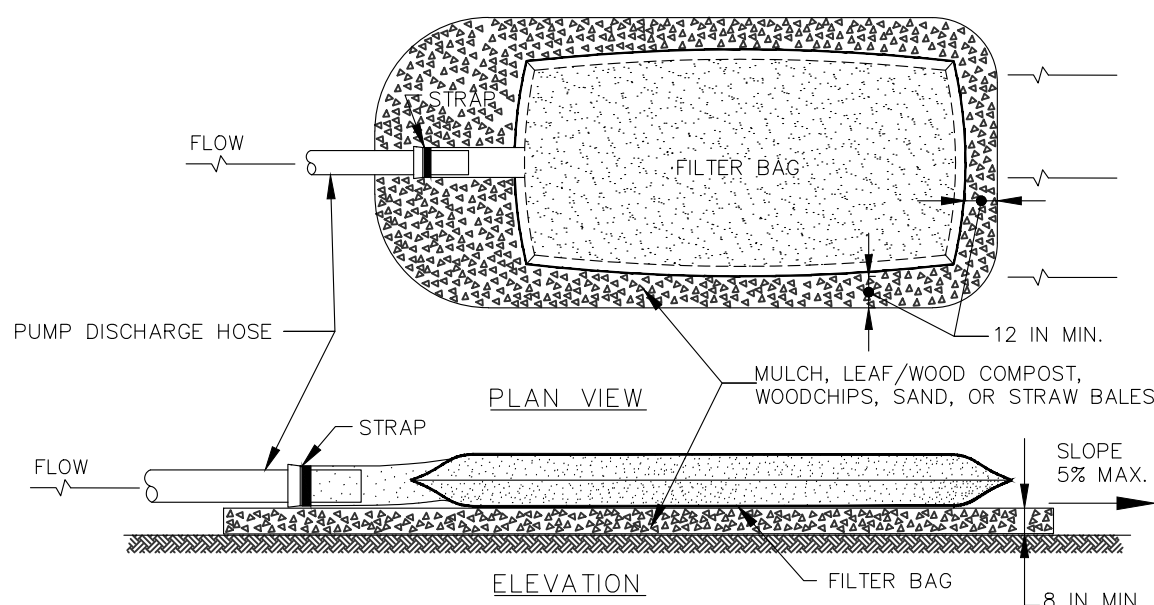
## Erosion Control Mat (Geotextile Fabric)

2



## Dewatering (Filter) Bag for Sediment

6

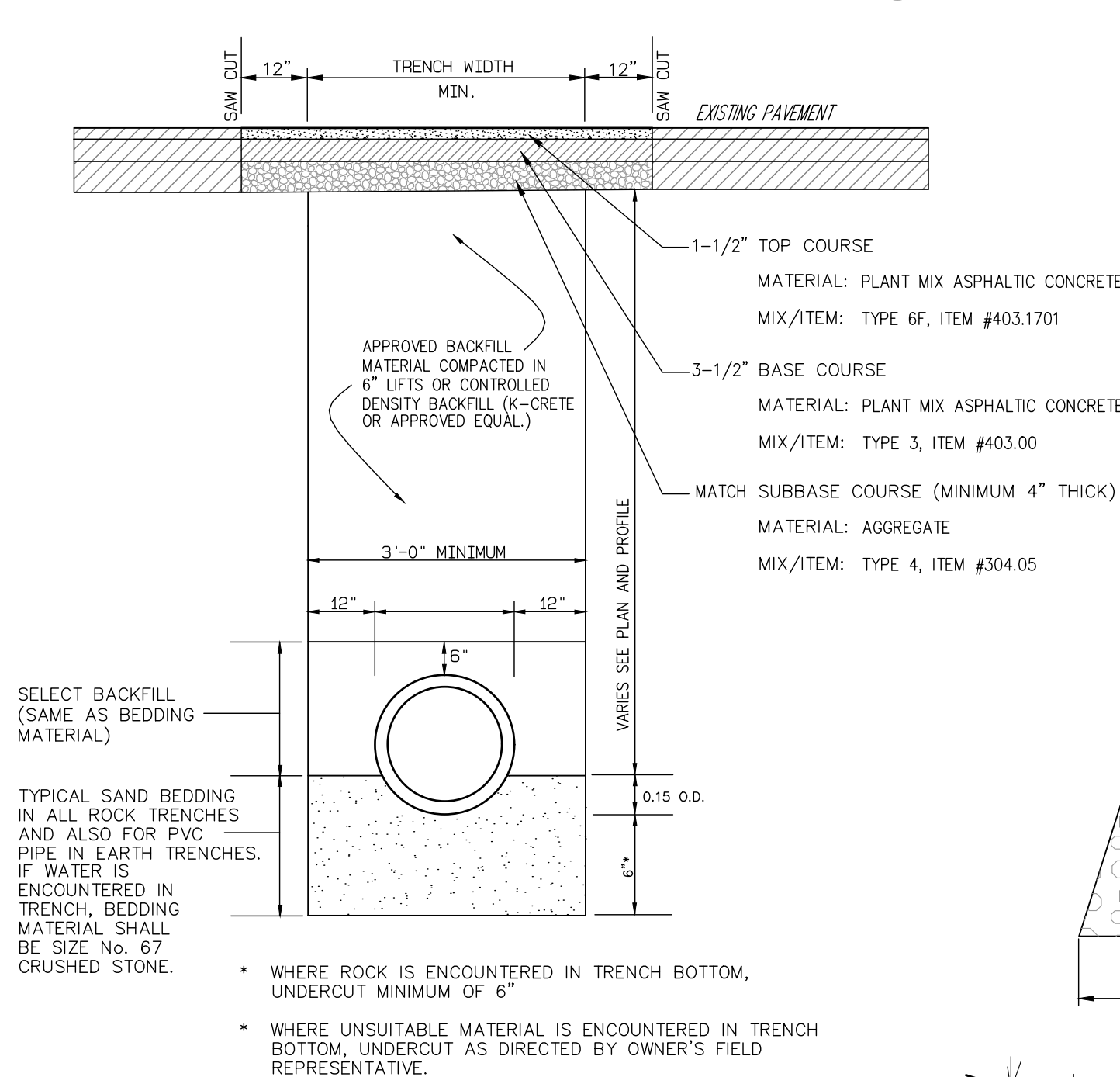


### CONSTRUCTION SPECIFICATIONS

- TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
  - 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 BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
  - 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.
  - 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 FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
  - USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO 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:
- |                                   |                            |             |
|-----------------------------------|----------------------------|-------------|
| GRAB TENSILE                      | 250 LB                     | ASTM D-4632 |
| PUNCTURE                          | 150 LB                     | ASTM D-4833 |
| 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% STRENGTH @ 500 HOURS   | ASTM D-4355 |
| APPARENT OPENING SIZE (AOS)       | 0.15-0.18 MM               | ASTM D-4751 |
| SEAM STRENGTH                     | 90%                        | ASTM D-4632 |
- REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.

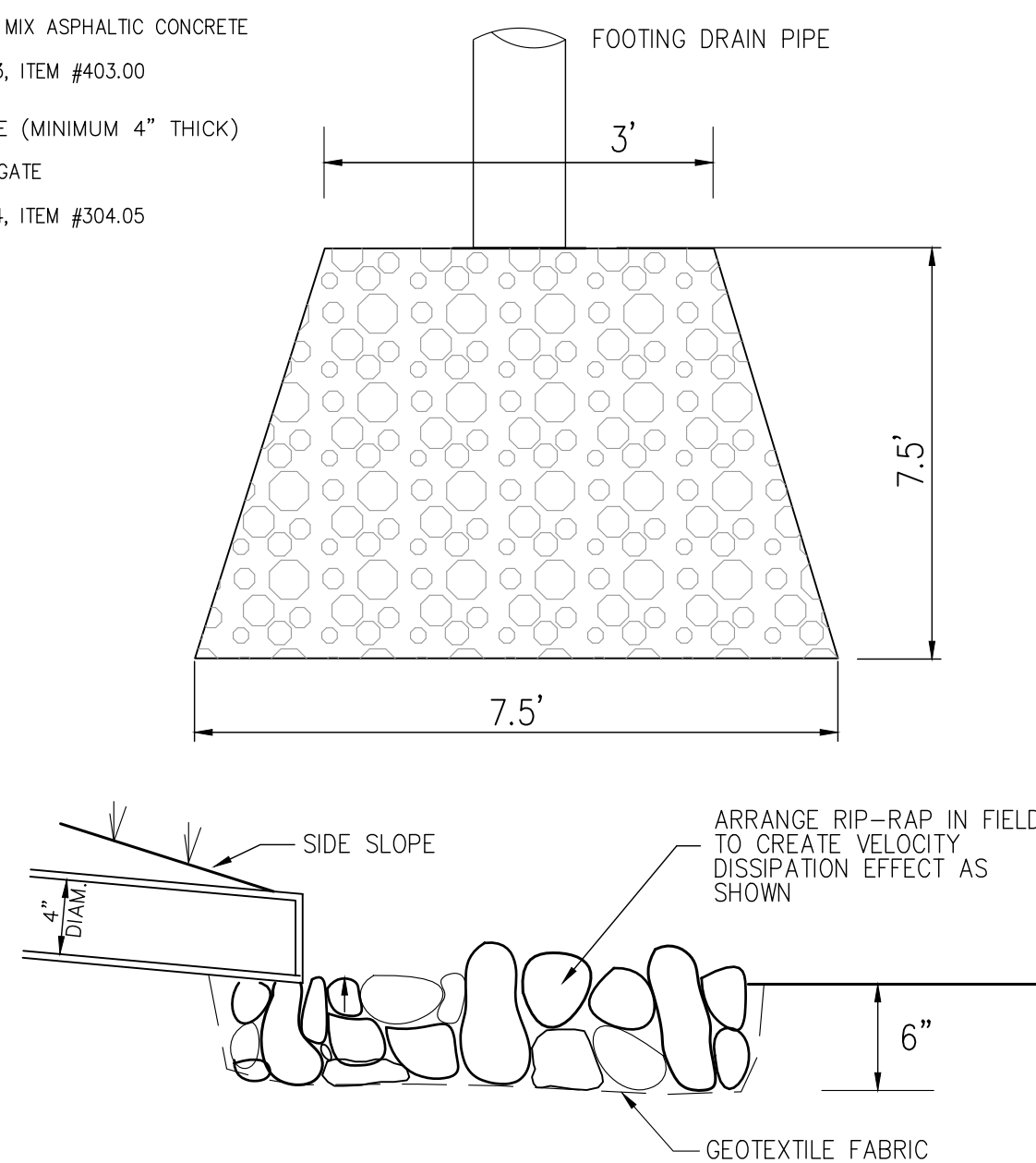
## Pavement Restoration for Trench

3



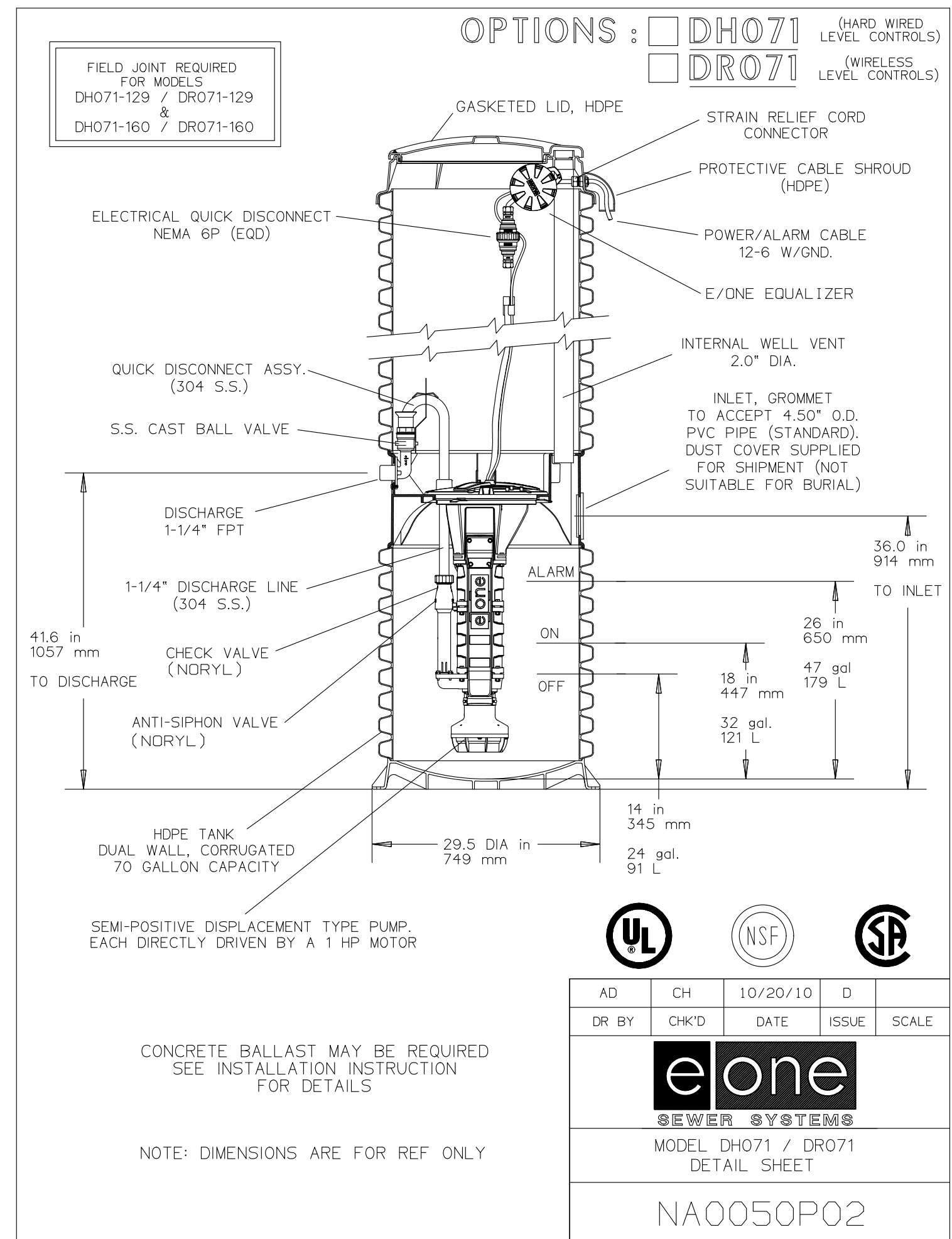
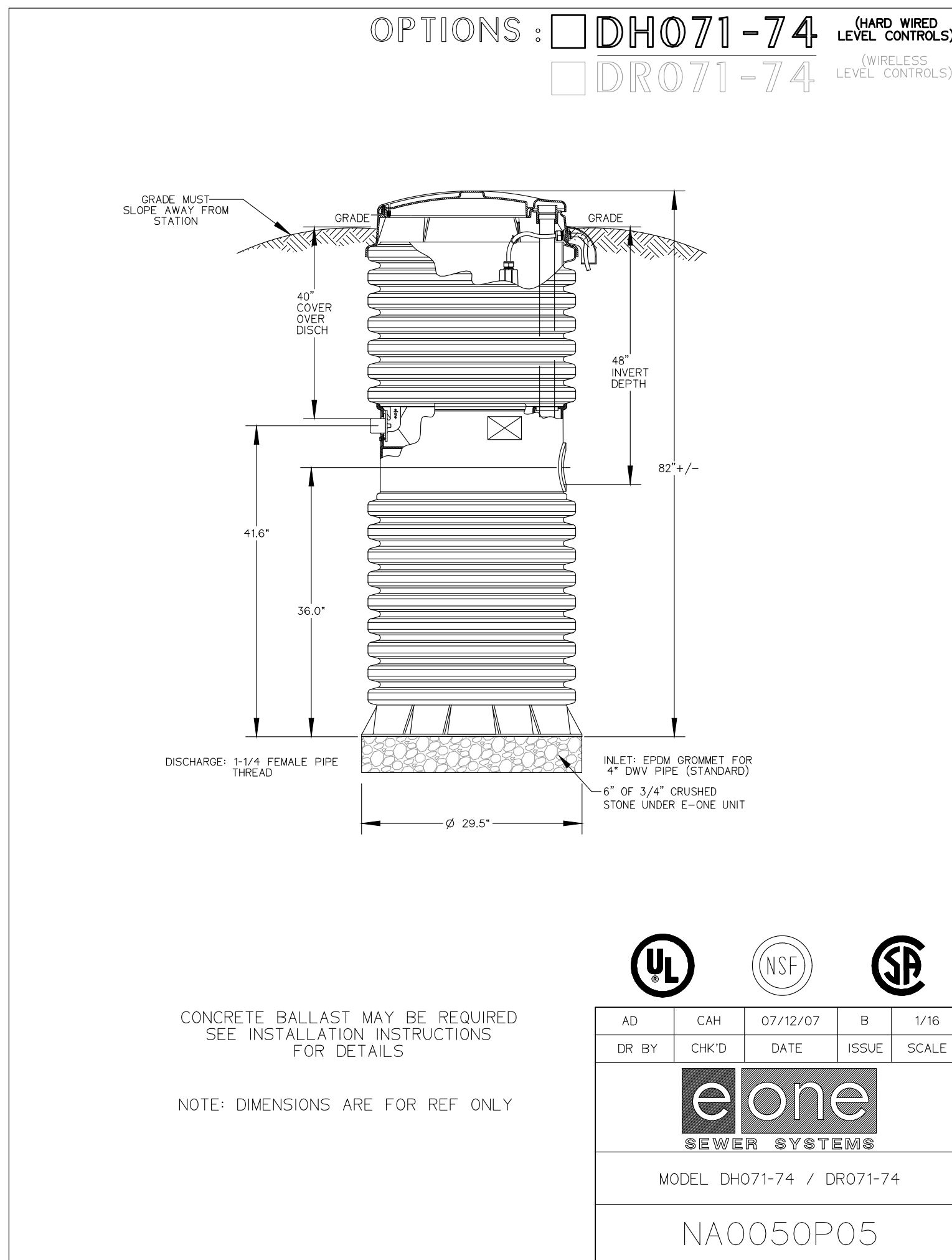
## Rip Rap Apron

4



## E-One Grinder Pump System

7



### CONSULTANTS:

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**C-113**