
STORMWATER POLLUTION PREVENTION PLAN

For The Kimball Residences RAWP

1219 Yonkers Avenue
City of Yonkers, NY

Prepared by:



JMC Project 16231

Date: 6/14/2018



I. **OVERVIEW**

This Stormwater Pollution Prevention Plan (SWPPP) has been prepared in association with the Remedial Action Work Plan (RAWP) prepared by PS&S for the Kimball Residences site at 1219 Yonkers Avenue in Yonkers, New York (hereinafter referred to as the "Site"). The site is bordered by Yonkers Avenue to the south, Crestwood Road to the west, and Bronx River Road to the east.

A Stormwater Pollution Prevention Plan has been prepared for this project because it is a construction activity that involves soil disturbances of one or more acres of land. The SWPPP provides erosion and control measures related to the remediation work and is not reflective of future conditions with the currently proposed mixed-use redevelopment.

Previously existing buildings within the site were recently removed. The existing conditions of the project site consist of the perimeter of the site being secured with solid wood fencing and the interior containing various elevations below the perimeter fencing.

The proposed RAWP prepared by PS&S involves the cleanup of materials within the site. The existing gates on-site will be used for truck access. Since the whole site will be excavated, stockpiling locations will likely change based on site conditions. Temporary stockpiling of materials will only be conducted if direct load out, for some reason, is not an available option.

II. SOIL EROSION & SEDIMENT CONTROL

A potential impact of the proposed development on any soils or slopes will be that of erosion and transport of sediment during construction. An Erosion and Sediment Control Management Program will be established for the proposed development, beginning at the start of construction and continuing throughout its course, as outlined in the "New York State Standards and Specifications for Erosion and Sediment Control," July 2016.

The Operator shall have a qualified professional conduct an assessment of the site prior to the commencement of construction and certify that the appropriate erosion and sediment controls, as shown on the Sediment & Erosion Control Plans, have been adequately installed to ensure overall preparedness of the site for the commencement of construction. In addition, the Operator shall have a qualified professional conduct one site inspection at least every seven calendar days.

Prior to the commencement of construction activity, the owner or operator must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The owner or operator shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the trained contractor. The owner or operator shall ensure that at least one trained contractor is on site on a daily basis when soil disturbance activities are being performed. The owner or operator shall have each of the contractors and subcontractors identified above sign a copy of the certification statement before they commence any construction activity.

There are temporary pollution prevention measures used to control litter and construction debris, such as silt fence and silt sacks which keep silt, sediment and construction litter and debris out of the stormwater drainage system. Drawing C-200, "Erosion and Sediment Control Plan"

illustrates the pollution prevention measures and Drawing C-201, "Construction Details" provides the specific criteria associated with the measures.

Temporary Control Measures

Temporary control measures and facilities will include silt fences, interceptor swales, stabilized construction entrances, temporary seeding, mulching and sediment traps.

Throughout the RAWP work, temporary control facilities will be implemented to control on-site erosion and sediment transfer. Interceptor swales, if required, will be used to direct stormwater runoff to temporary sediment traps for settlement. The sediment traps will be constructed as part of this project will serve as temporary sediment basins to settle sediment and pollutants from the stormwater runoff produced during construction.

Descriptions of the temporary sediment & erosion controls that will be used during the development of the site including silt fence, stabilized construction entrance, seeding, mulching and inlet protection are as follows:

1. Silt Fence is constructed using a geotextile fabric. The fence will be either 18 inches or 30 inches high. The height of the fence can be increased in the event of placing these devices on uncompacted fills or extremely loose undisturbed soils. The fences will not be placed in areas which receive concentrated flows such as ditches, swales and channels nor will the filter fabric material be placed across the entrance to pipes, culverts, spillway structures, sediment traps or basins.
2. Stabilized Construction Entrance consists of AASHTO No. 1 rock. The rock entrance will be a minimum of 50 feet in length by 20 feet in width by 8 inches in depth.
3. Seeding will be used to create a vegetative surface to stabilize disturbed earth until at least 70% of the disturbed area has a perennial vegetative cover. This amount is required to

adequately function as a sediment and erosion control facility. Grass lining will also be used to line temporary channels and the surrounding disturbed areas.

4. Mulching is used as an anchor for seeding and disturbed areas to reduce soil loss due to storm events. These areas will be mulched with straw at a rate of 3 tons per acre such that the mulch forms a continuous blanket. Mulch must be placed after seeding or within 48 hours after seeding is completed.
5. Inlet Protection will be provided for all stormwater basins and inlets with the use of curb & gutter inlet protection and stone & block inlet protection structures, which will keep silt, sediment and construction debris out of the storm system. Existing structures within existing paved areas will be protected using “Silt Sacks” inside the structures.
6. Sediments Traps will be used to collect stormwater and settle sediment and pollutants.

The contractor shall be responsible for maintaining the temporary sediment and erosion control measures throughout construction. This maintenance will include, but not be limited to, the following tasks:

1. For dust control purposes, moisten all exposed graded areas with water at least twice a day in those areas where soil is exposed and cannot be planted with a temporary cover due to construction operations or the season (December through March).
2. Inspection of erosion and sediment control measures shall be performed at the end of each construction day and immediately following each rainfall event. All required repairs shall be immediately executed by the contractor.
3. Sediment deposits shall be removed when they reach approximately $\frac{1}{3}$ the height of the silt fence. All such sediment shall be properly disposed of in fill areas on the site, as directed by the Owner’s Field Representative. Fill shall be protected following disposal with mulch,

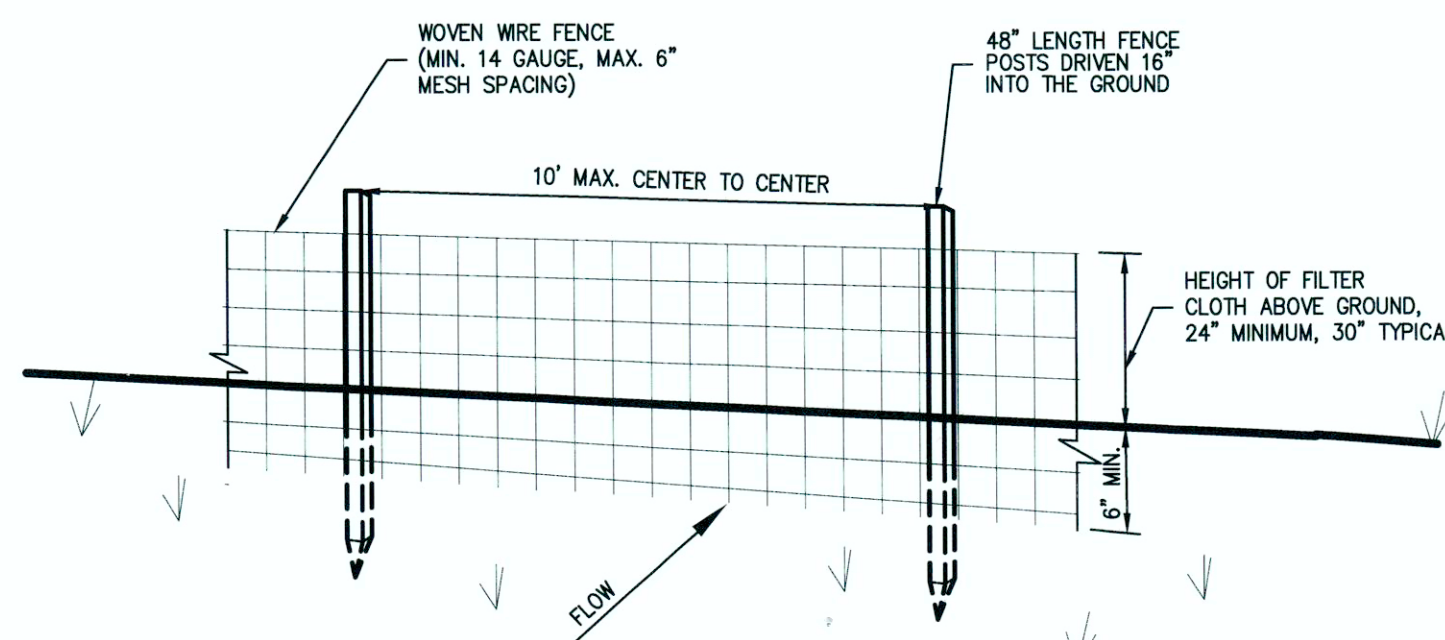
temporary and/or permanent vegetation and be completely circumscribed on the downhill side by silt fence.

4. Rake all exposed areas parallel to the slope during earthwork operations.
5. Following final grading, the disturbed area shall be stabilized with a permanent surface treatment (i.e. turf grass, pavement or sidewalk). During rough grading, areas which are not to be disturbed for fourteen or more days shall be stabilized with the temporary seed mixture, as defined on the plans. Seed all piles of dirt in exposed soil areas that will not receive a permanent surface treatment.

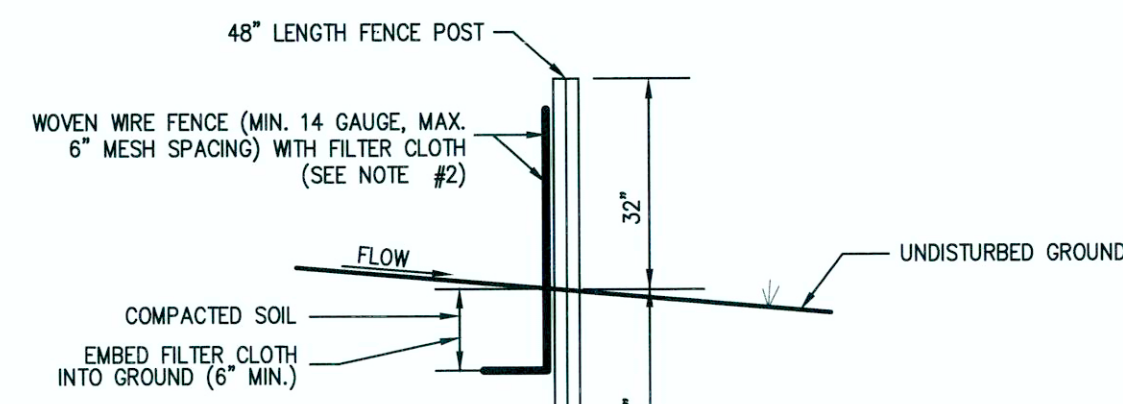
APPENDIX

Drawing C-200 “Erosion and Sediment Control Plan” dated 6/14/2018

Drawing C-201 “Construction Detail” dated 6/14/2018



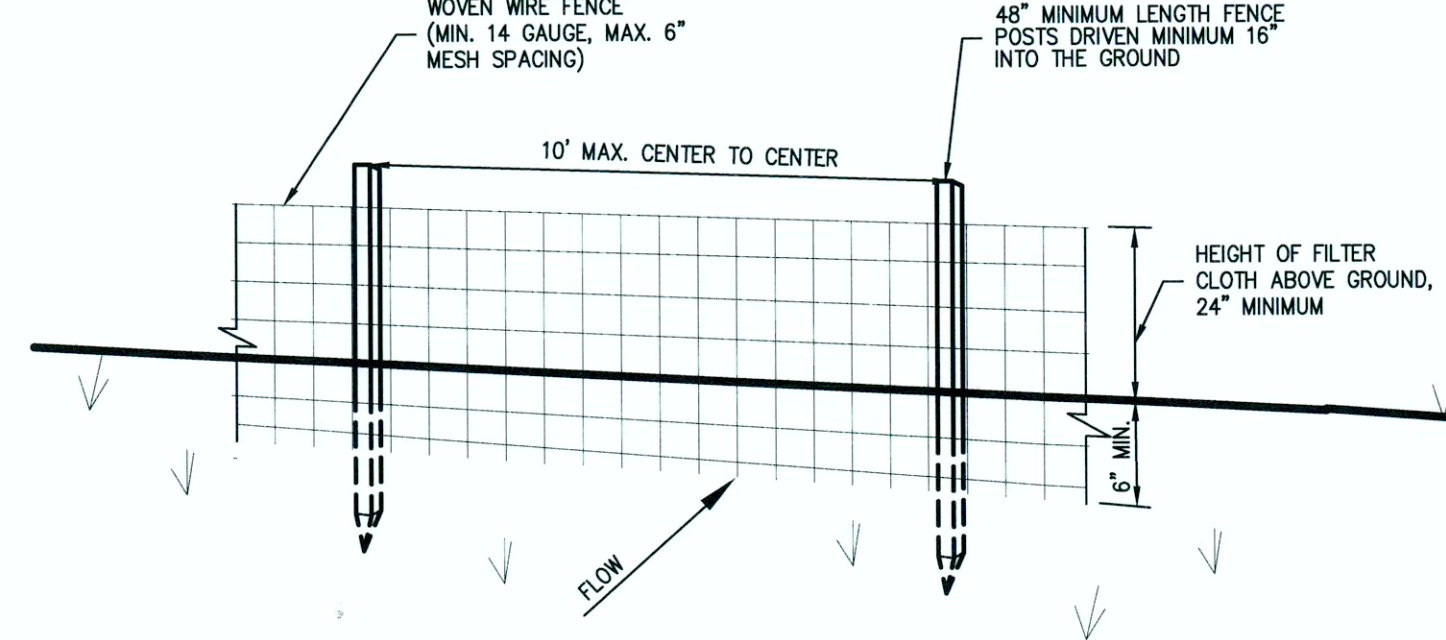
PERSPECTIVE VIEW



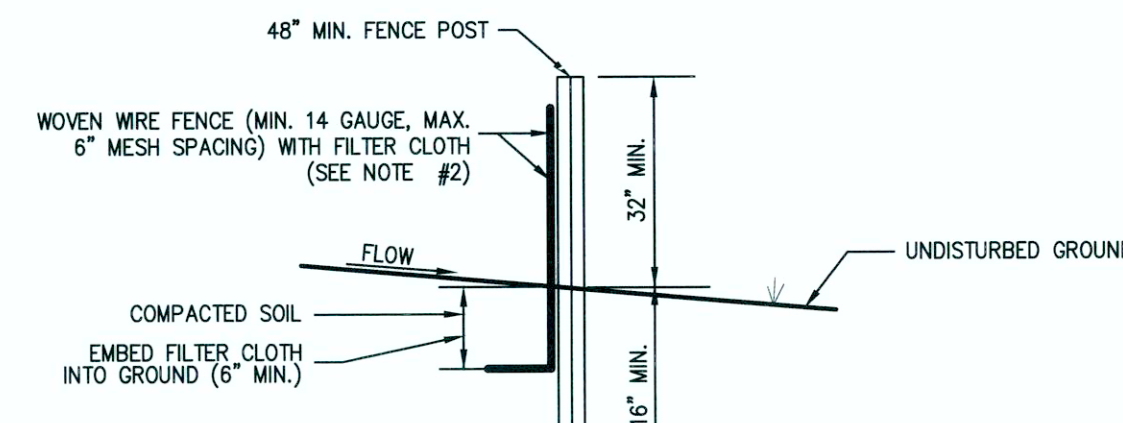
SECTION

NOTES:

- WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL, EITHER T OR U TYPE OR HARDWOOD.
- FILTER CLOTH SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24\"/>



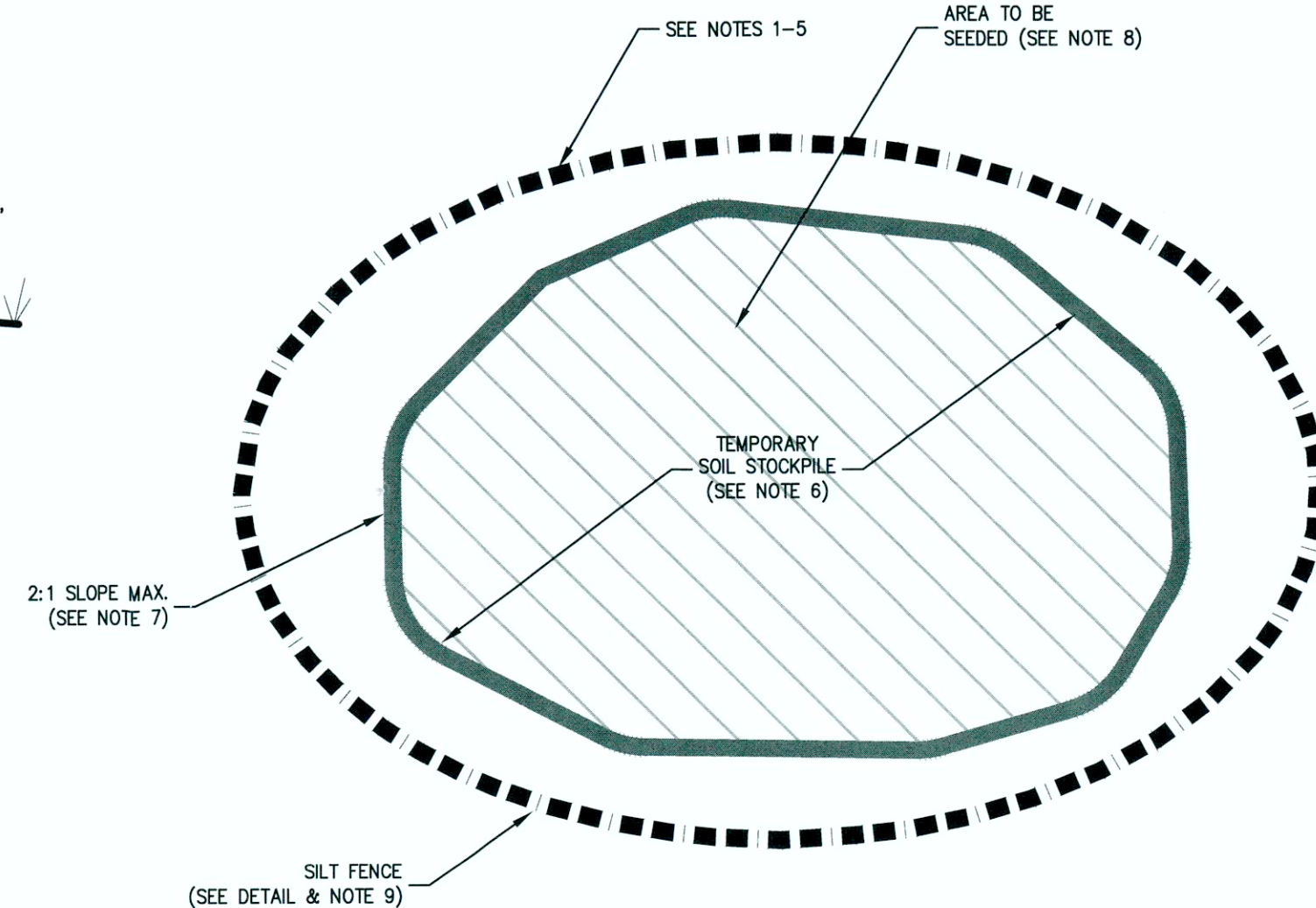
PERSPECTIVE VIEW



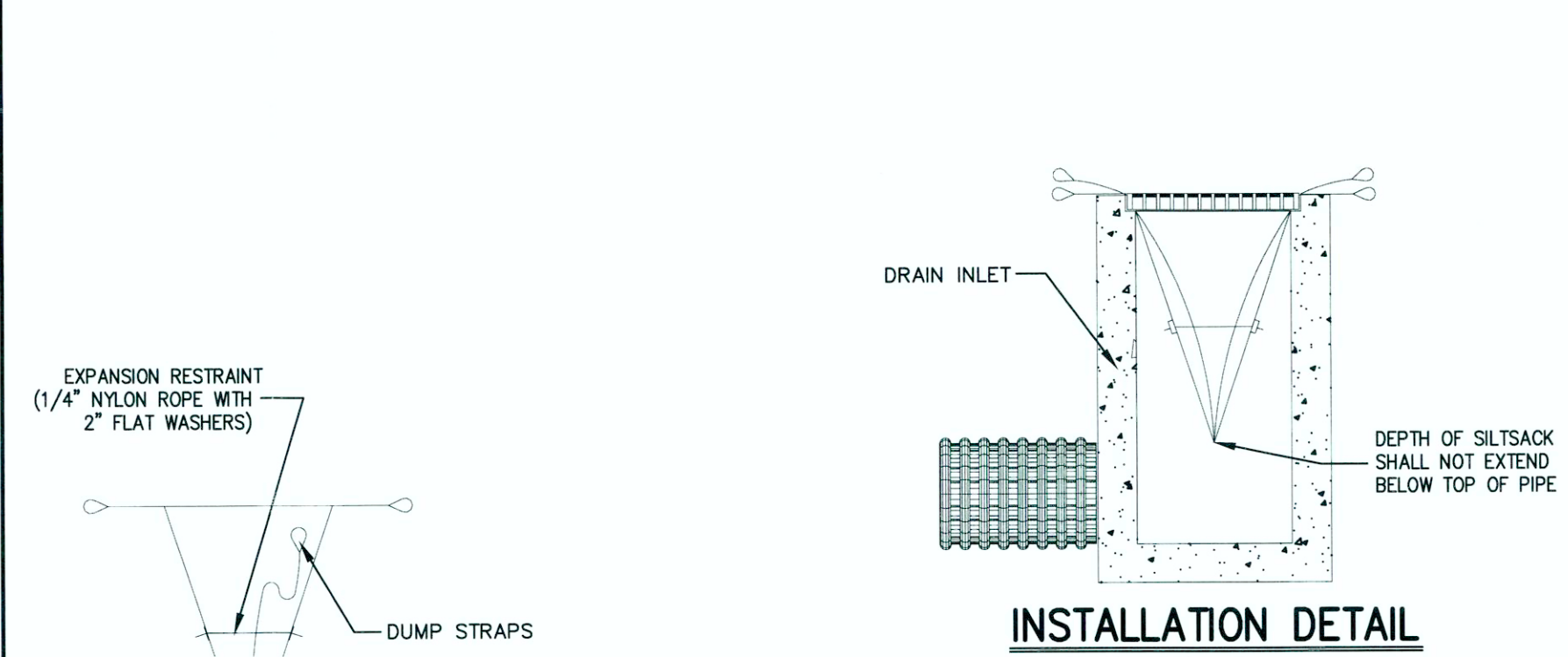
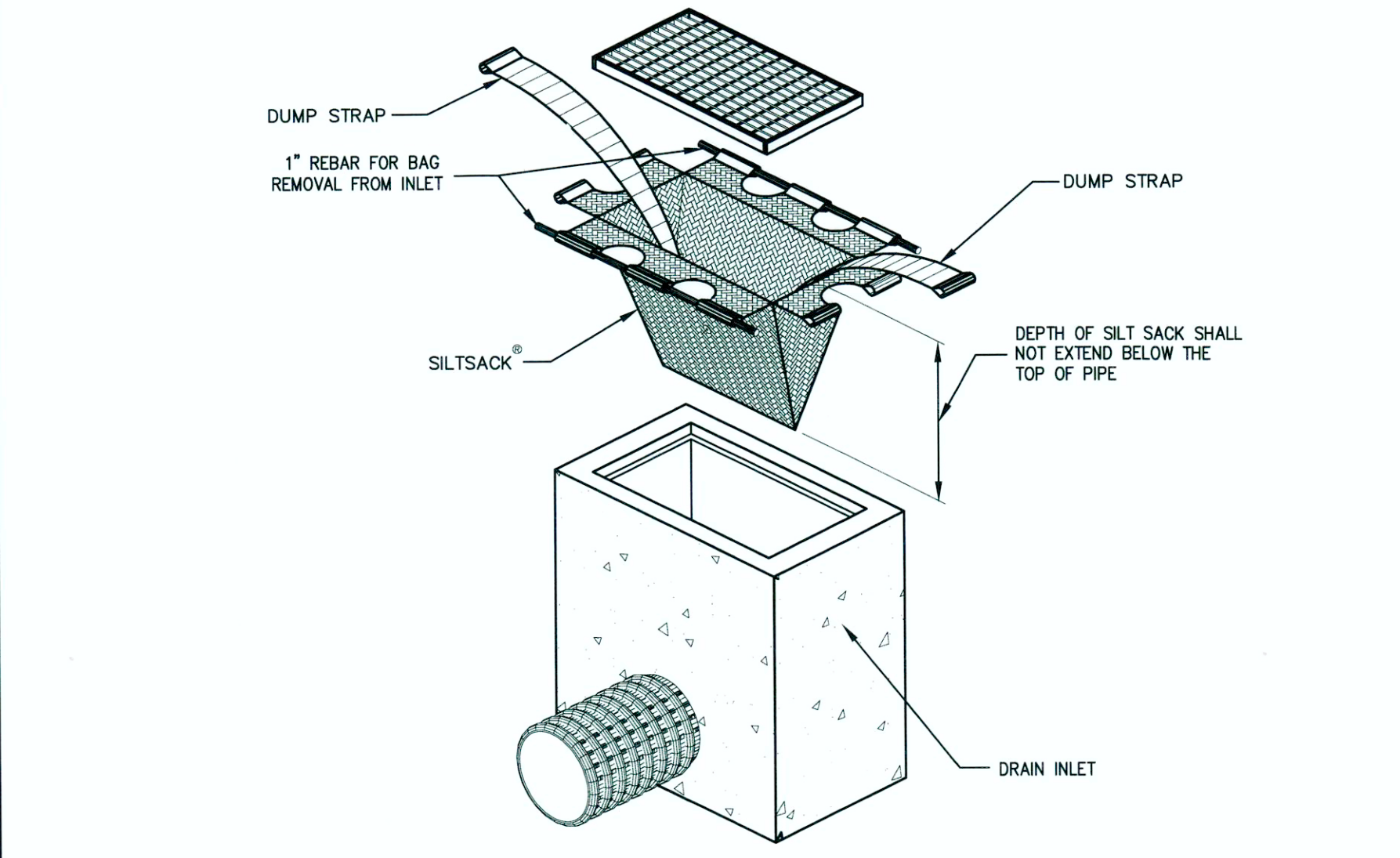
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PLAN VIEW



INSTALLATION DETAIL

BAG DETAIL

HI-FLOW SILT SACK AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL (FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MILLEN BURST	ASTM D-3786	400 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SEIVE
FLOW RATE	ASTM D-4481	200 GAL/MIN/50 FT
PERMITIVITY	ASTM D-4481	1.5 SEC -1

SILT FENCE

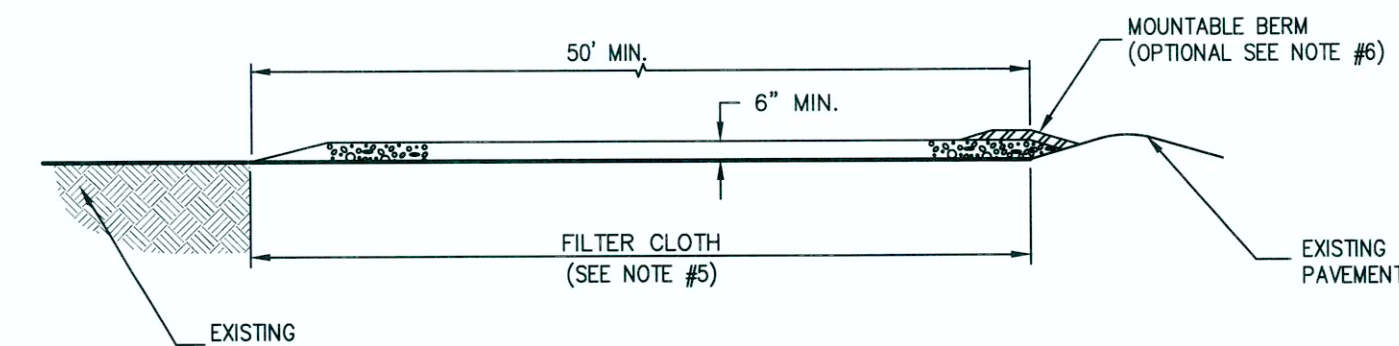
1

TEMPORARY SOIL STOCKPILE WITH SILT FENCE

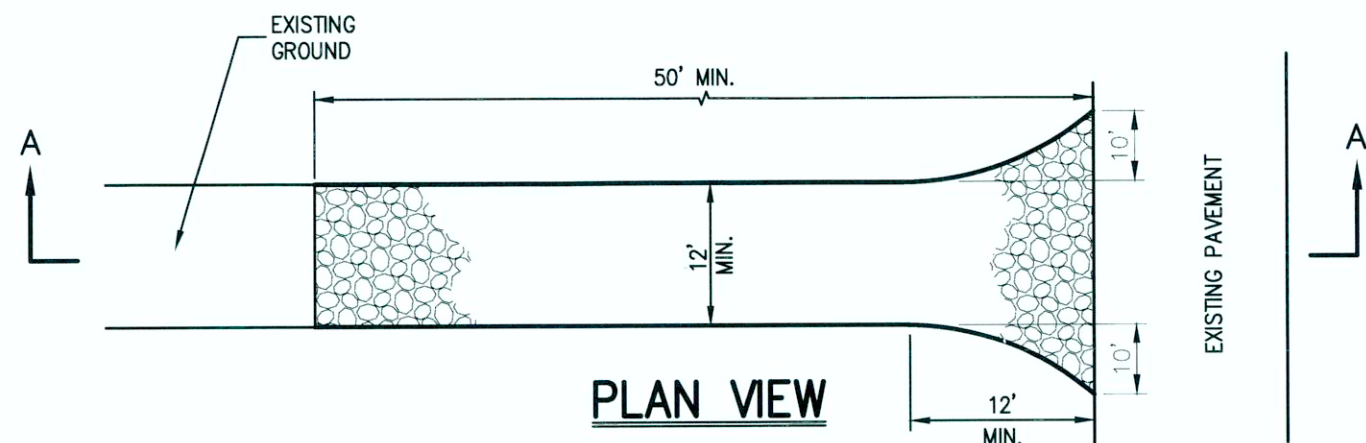
2

SILT SACK

3



SECTION A-A



PLAN VIEW

NOTES:

- STONE SIZE - USE 1\"/>

STABILIZED CONSTRUCTION ENTRANCE

4

X

X

X

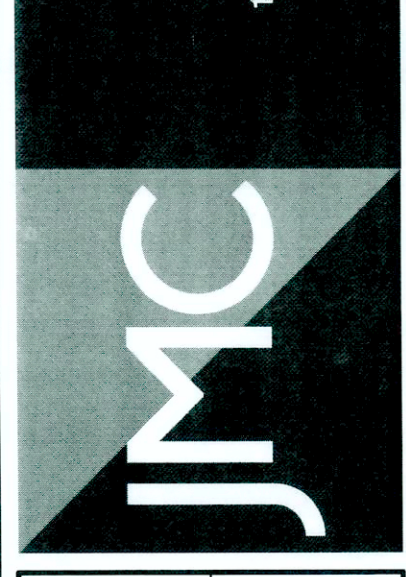
NOT FOR CONSTRUCTION

By	
Date	
Revision	
No.	

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Drawn	JE	Approved	AG
Scale	NOT TO SCALE		
Date	06/14/2018		
Project No.	16231		
Drawing No.	C-201		