



May 21, 2020

Chelsea Robertson, Executive Director
Southern Tier Central Planning and Development Board
8 Denison Parkway East
Suite 310
Corning, NY 14830

Re: Tyoga Container Project
West Water Street, Painted Post, NY
Corning, (T), Steuben (C)

Dear Ms. Robertson:

The following are responses to how LDG plans to address the comments from the letter you received May 14, 2020 from Kimberly Merchant of the New York State Department of Conservation (DEC) in response to Lead Agency Request Letter and Full Environmental Assessment Form (FEAF) submitted for the Tyoga Container Project (the Project) in Painted Post, New York. To help aid in review we have included DEC's comments, italicized, followed by our response to address the comments.

Stormwater General Permits – Construction and Industrial

DEC Comment:

This project will need to be in compliance with the State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activities (GP-0-20-01)
<https://www.dec.ny.gov/chemical/43133.htm> or https://www.dec.ny.gov/docs/water_pdf/con_stgp020001.pdf.

Construction activities that involve one acre or more of land disturbance must obtain SPDES stormwater permit coverage through either an individual permit or GP-0-20-01. To obtain authorization under GP-0-20-01 a Stormwater Pollution Prevention Plan (SWPPP) must be prepared in accordance with all applicable requirements of GP-0-20-01 and a completed Notice of Intent (NOI) form must be submitted to the Department. For additional information on the Department's stormwater program please visit the following webpage:
<http://www.dec.ny.gov/chemical/8468.html>.

Response:

The project will be in compliance with the State Pollutant Discharge Elimination System (SPDES) General permit for Stormwater Discharge from Construction Activities (GP-0-20-01). A SWPPP is being prepared for the project in accordance with all applicable requirements of the GP-0-20-01 and a completed Notice of Intent (NOI) form will be submitted to DEC.

An employee-owned company

1 West Market Street, Suite 301, Corning, NY 14830
607.936.7076 | larsondesigngroup.com

DEC Comment:

Given the size of the site, if more than 5 acres of disturbance at any one time is proposed, please submit a request for a 5-acre waiver with the SWPPP and relevant plan set sheets.

Response:

A request for a 5-acre waiver will be submitted with the application along with the SWPPP and relevant plan set sheets.

DEC Comment:

This general permit requires applicants to receive clearance for group disturbing activities from the New York State Office of Parks, Recreation, and Historic Preservation (OPRHP) prior to a request for authorization under the general permit. Please have the project proponent submit the project and any associated documents to OPRHP via the Cultural Resource Information System, <https://cris.parks.ny.gov>. Any identified cultural resources may require consultation with the appropriate Indian Nation pursuant to Commissioner's Policy 42, Contact, Cooperation, and Consultation With Indian Nations. "

Response:

Clearance from the OPRHP was received on May 19, 2020 indicating "no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project." See the attached No Effect letter from OPRHP.

DEC Comment:

Is MSGP coverage expected to be necessary for this operation? Please see <https://www.dec.ny.gov/chemical/9009.html>.

Response: Once soil testing is complete, a soil management plan will be developed. This will be included in the SWPPP and noted in the NOI. If, upon NYSDEC review, it is determined that additional coverage is necessary, we will obtain at that time.

Sanitary Sewer Extension

DEC Comment:

If more than a lateral sewer connection will be required for installation of sanitary systems onsite, a sewer extension approval will be needed for this project.

Response:

There is one lateral connection that will connect to the Village sanitary sewer system, therefore no sewer extension approval is required.

Individual SPDES permit

DEC Comment:

It is our understanding that the facility will be hooked to sanitary sewer. Will the facility be equipped with an Oil Water Separator and if so, where will it discharge?

Response:

An oil water separator is not required for this facility.

Waste Management

DEC Comment:

Is any industrial waste expected to be produced from operations onsite?

Response:

No industrial waste is expected to be produced from onsite operations.

Flood Control

DEC Comment:

Active NYS Flood Control Perpetual Easement and Fee lands appear present on the proposed site depicted on the Preliminary Site Plan Drawing SH-1 (Site Plan). Specifically, at the western portion of the site. Submittal of a drawing for review is required that clearly depicts the location flood control lands (appropriated lands for flood control) on the site. If any regulated activities as defined in 6 NYCRR Part 501 "Use of Flood Control Lands" are proposed on flood control lands then the Department will require submittal of an Article 16 Flood Control Land Use permit application to the Department (Region 8 Division of Water – Flood Control Program) for review and comment. Examples of regulated activities on flood control lands include (but not limited to) material placement or removal, fencing, pavement, excavations, soil placement, structures, underground/overhead utilities, motorized vehicle use, stormwater, etc.

Response:

A 15-foot buffer where no disturbance will occur will be maintained between the Flood Control Lands. The active NYS Flood Control Perpetual Easement and Fee lands are depicted on the attached Site Plan Drawing. No regulated activities as defined in 6 NYCRR Part 501 "Use of Flood Control Lands" are proposed on the flood control lands. Therefore, an Article 16 Flood Control Land Use permit is not required for this project.

DEC Comment:

A Stormwater Plan/Drawing submittal is required to determine the impact of stormwater (construction and post-construction) on flood control lands that encumber a portion of the proposed site, as well as flood control lands adjacent to the proposed site.

Response:

A full SWPPP is being prepared to address stormwater management during and post-construction. It will address protection of the flood control lands on and adjacent to the property. Preliminary stormwater management drawings are attached. It is our opinion that the proposed project will not impact the flood control lands.

DEC Comment:

A hatched area is shown on the Site Plan over flood control lands in the area of Hodgman Creek, although a legend is not provided to identify the meaning of the hatching. Clarification is required.

Response:

The hatched area on the site plan has been clearly marked as Flood Control Lands. A 15-foot protective buffer region is indicated between the easement boundary and the limits of construction.

Remediation Sites

DEC Comment:

The proposed project is proposed to be located in or adjacent to two Ingersoll Rand (IR) Foundry remediation sites (sites 851012 and C851012). Activities at the former IR Site are subject to Institutional Controls and a Site Management Plan imposed by IR when the property was transferred. If you wish to obtain more information about this site, I recommend reaching out to our Tim Schneider, of our Remediation Unit, for input at 585-226-5353.

Response:

The geotechnical engineer, Haley and Aldrich, will reach out the Tim Schneider of the Remediation Unit for further information/instructions on how to manage impacted soils on the site.

Environmental Justice

DEC Comment:

The project is not located within a potential Environmental Justice Area.

Response:

No action required.

Federal Wetlands

DEC Comment:

While the Department asserts jurisdiction over NYS regulated freshwater wetlands, the U. S. Army Corps of Engineers regulates federally protected wetlands. For questions regarding federal wetlands, and the federal permitting process, contact the U. S. Army Corps of Engineers at: Chief, Regulatory Branch, U. S. Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo, NY 14207 or (716) 879-4330.

Response:

A wetland investigation will be performed on the site to delineate identified wetlands on the site. Identified wetlands will be clearly identified and fenced off during construction as added protection.

401 Water Certification

DEC Comment:

Work in certain waters and wetlands of the United States may require a permit from the U. S. Army Corps of Engineers (Corps). If a Corp permit is required, the Corps may request that the DEC make a determination (Water Quality Certification, pursuant to Section 401 of the Federal Clean Water Act) that discharges from the proposed activities, for which an applicant is seeking a Corps permit approval, will comply with the applicable effluent limitations, water quality standards, and any other applicable conditions of the State Law. The Buffalo Office of the Corps should be contacted regarding permit jurisdictions. Their address is Chief Regulatory Branch, U. S. Army Corps of Engineers, Buffalo District, 1776 Niagara Street, Buffalo NY 14207. Their phone number is (716) 879-4330. Documentation in support of a 401 Water Quality Certification would include demonstration of compliance with either the Department's State Pollutant Discharge Elimination System (SPDES) General Permit for Storm Water Discharges from Construction Activities (GP-0-20-01) or the MS4 (Municipal Separate Storm Sewer Systems). This documentation would include submission of a completed Notice of Intent and, in an MS4 area, a copy of the local municipality's approved MS4 Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form as part of a complete application. The actual SWPPP could also be required depending on the project.

Response:

The project has been designed to avoid impact to wetlands and water bodies. We do not anticipate requiring a permit from the Corps.

Historic, Architectural, Archeological, and Cultural Resources

DEC Comment:

The ArcGIS review indicated that the project site is located within an archaeologically sensitive area. As stated above, under the Stormwater General Permits section of this letter, it is required that a sign-off be sought from the NYS OPRHP regarding the potential impacts on historic and archeological resources from the development of this area. Additional information can be found on NYS OPRHP's website at <http://nysparks.com/shpo/online-tools/> or by calling (518) 237-8643. Potential impacts to these resources must be considered in the State Environmental Quality Review (SEQR) documentation.

Response:

As stated previously, clearance from OPRHP was received on May 19, 2020 indicating no archaeological impacts to the site.

Indian Nation Cultural Resource Area of Concern:

DEC Comment:

The project site is located in a Seneca Nation Indian Nation Cultural Resource Area of concern. As stated above, under the Stormwater General Permits section of this letter, it is required that a sign-off be sought from the NYS OPRHP.

Response:

As stated previously, clearance from OPRHP was received May 19, 2020 indicating no impacts by the project.

Biotic Communities/Endangered and Threatened Species of Flora and Fauna

DEC Comment:

We have reviewed the available information in the New York State Natural Heritage Program databases for known occurrences of federally listed or proposed endangered or threatened species; state-listed endangered, threatened or rare animal and plant species; significant natural communities; and other significant habitats. Some occurrences were found in the vicinity of the project site. For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities.

The project falls slightly within the buffer area for an endangered and threatened (E&T) species. The Department's Habitat Biologist indicated that the species is actually located other side of village of Painted Post and there is an interstate highway in between and more than 5,000 feet from this project, therefore we have determined that there should not be any impacts to E&T species.

Response:

Determination noted. No action required.

DEC Comment:

The project site also has hits in the master habitat database for timber rattle snake and E&T mussels. Although it is not expected that the project site will contain timber rattler, it is recommended that the site develop a plan to address the situation, should a snake be found at the site. The project site will not directly affect the river, therefore, the possibility of impacts to the E&T mussels is not likely. However, if there is possibility of runoff from site construction, to the river, it is imperative that all soil and erosion control measures be put in place in accordance with the Stormwater General Permit (see section above) to prevent any indirect impacts on these species.

Response:

Notes will be added to the plan set indicating a plan to address the situation, should any Timber Rattle Snakes be encountered. As stated previously, a SWPPP is being prepared that will address erosion and sedimentation control measures to prevent any indirect impacts on the species.

DEC Comment:

Your project may be subject to Federal regulations. You may contact the FWS staff at their Northeast Regional Office, U.S. Fish and Wildlife Service, 300 Westgate Center Drive, Hadley, MA 01035-9589. They can also be reached by phone at (413) 253-8200.

Response:

Review of the U.S. Fish and Wildlife Service's Information for Planning and Construction (IPaC) project planning tool identified 1 endangered species, the Northern Long-eared Bat (NLEB), having potential to exist on the site. An NLEB Consultation was performed to ensure the actions of the site are consistent with the northern long-eared bat 4(d) rule. The consultation resulted in any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Please find the consistency letter attached.

If you have any questions please feel free to contact me at LDG's Corning office at (607) 936-7076 or via aratchford@larsondesigngroup.com.

Sincerely,

LARSON DESIGN GROUP



Amanda Ratchford, E.I.T.
Senior Engineering Associate

cc: Larry Foor, Foor & Associates
File 7838-015

AKR

Attachments



**Parks, Recreation,
and Historic Preservation**

ANDREW M. CUOMO
Governor

ERIK KULLESEID
Commissioner

May 19, 2020

Amanda Ratchford
Larson Design Group
1 W Market St
Suite 301
Corning, NY 14830

Re: DEC
Painted Post Distribution Center
450 W Water St, Painted Post, NY 14870
20PR03036

Dear Amanda Ratchford:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Daniel Mackay".

R. Daniel Mackay

Deputy Commissioner for Historic Preservation
Division for Historic Preservation



United States Department of the Interior

FISH AND WILDLIFE SERVICE

New York Ecological Services Field Office

3817 Luker Road

Cortland, NY 13045-9385

Phone: (607) 753-9334 Fax: (607) 753-9699

<http://www.fws.gov/northeast/nyfo/es/section7.htm>



IPaC Record Locator: 995-21757688

May 15, 2020

Subject: Consistency letter for the 'Painted Post Distribution Center' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Amanda Ratchford:

The U.S. Fish and Wildlife Service (Service) received on May 15, 2020 your effects determination for the 'Painted Post Distribution Center' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause “take”^[1] of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action’s effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

No

2. Will your activity purposefully **Take** northern long-eared bats?

No

3. Is the project action area located wholly outside the White-nose Syndrome Zone?

Automatically answered

No

4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees and hibernacula is available at www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html.

Yes

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

No

6. Will the action involve Tree Removal?

Yes

7. Will the action only remove hazardous trees for the protection of human life or property?

No

8. Will the action remove trees within 0.25 miles of a known northern long-eared bat hibernaculum at any time of year?

No

9. Will the action remove a known occupied northern long-eared bat maternity roost tree or any trees within 150 feet of a known occupied maternity roost tree from June 1 through July 31?

No

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

5

2. If known, estimated acres of forest conversion from April 1 to October 31

0

3. If known, estimated acres of forest conversion from June 1 to July 31

0

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

PROJECT & CLIENT

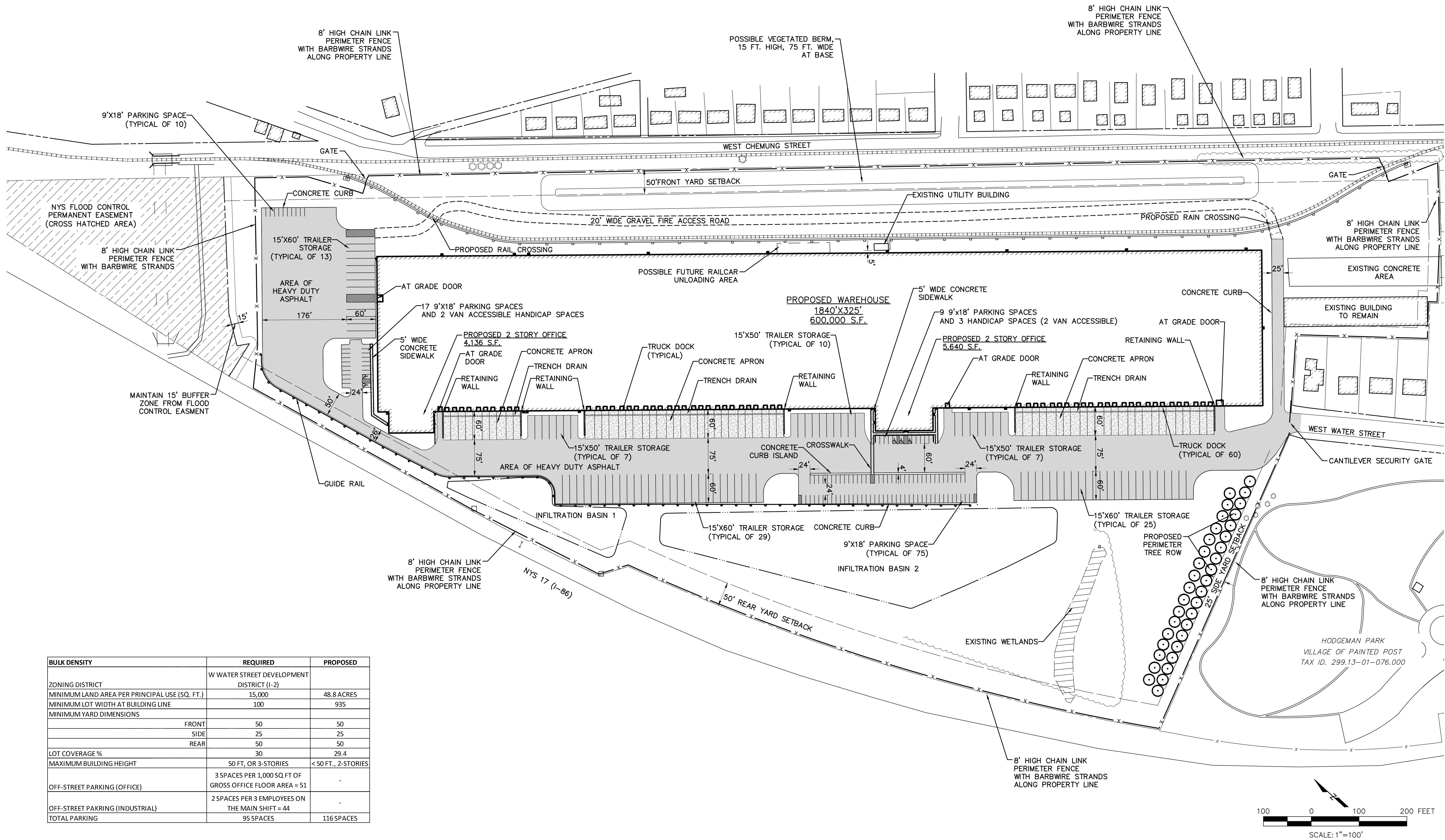
DISTRIBUTION CENTER FOR TYOGA CONTAINER

VILLAGE OF PAINTED POST
STEUBEN COUNTY, NEW YORK

REVISIONS

DRAWING TITLE

PROPOSED SITE PLAN



BULK DENSITY	REQUIRED	PROPOSED
ZONING DISTRICT	W WATER STREET DEVELOPMENT DISTRICT (I-2)	
MINIMUM LAND AREA PER PRINCIPAL USE (SQ. FT.)	15,000	48.8 ACRES
MINIMUM LOT WIDTH AT BUILDING LINE	100	935
MINIMUM YARD DIMENSIONS		
FRONT	50	50
SIDE	25	25
REAR	50	50
LOT COVERAGE %	30	29.4
MAXIMUM BUILDING HEIGHT	50 FT. OR 3-STORIES	< 50 FT., 2-STORIES
OFF-STREET PARKING (OFFICE)	3 SPACES PER 1,000 SQ.FT OF GROSS OFFICE FLOOR AREA = 51	-
OFF-STREET PARKING (INDUSTRIAL)	2 SPACES PER 3 EMPLOYEES ON THE MAIN SHIFT = 44	-
TOTAL PARKING	95 SPACES	116 SPACES



Larson Design Group®
Architects Engineers Surveyors
1 West Market Street • Suite 301
Corning, NY 14830
PHONE 607.936.7076
FAX 607.936.7086

PROJECT & CLIENT

DISTRIBUTION
CENTER
FOR

TYOGA
CONTAINER

VILLAGE OF PAINTED POST
STEBEN COUNTY, NEW YORK

REVISIONS

DRAWING TITLE

EROSION
AND
SEDIMENTATION
CONTROL
PLAN

DATE
MAY 2020

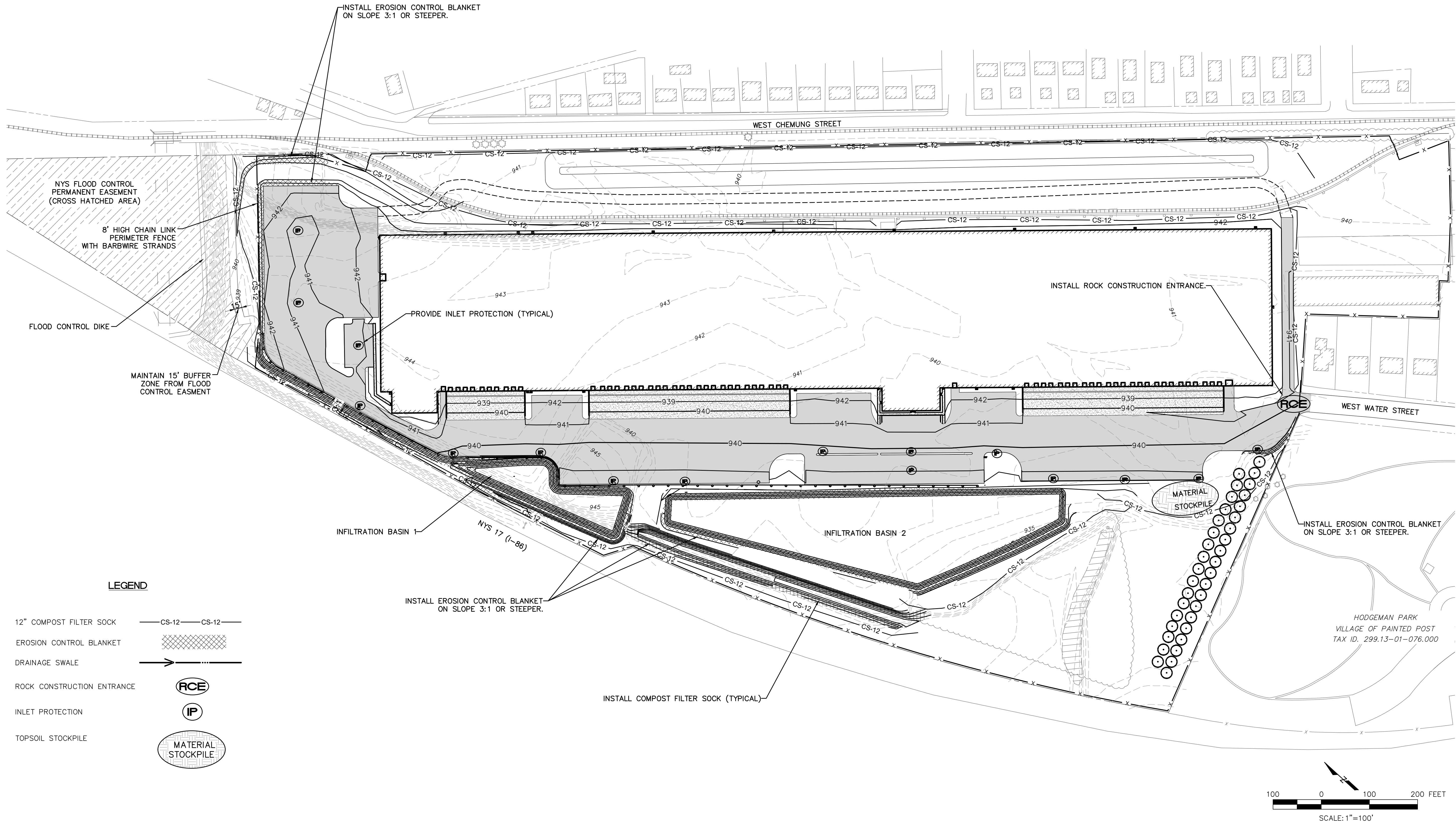
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DWG. NO.

3956

ES1.01



EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PROVISIONS/CONDITIONS OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION [NYSDEC] STATE POLLUTION DISCHARGE ELIMINATION SYSTEM [SDDES] GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY (GP-0-15-002).
2. THE OWNER/OPERATOR AND ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN [SWPPP], AND BEFORE CONSTRUCTION CAN BEGIN, THE CONTRACTORS AND SUBCONTRACTORS MUST SIGN AND SUBMIT TO THE ENGINEER, THE CERTIFICATION STATEMENT FOUND IN THE SWPPP REPORT.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS/MEASURES TO PREVENT THE DEGRADATION OF THE WATERS OF NEW YORK STATE BY MITIGATING/CONTROLLING THE MIGRATION OF SILTS, SEDIMENTS, FERTILIZERS, PETROLEUM PRODUCTS, LUBRICANTS, PAINTS, SOLVENTS, EPOXY COATINGS, CONCRETE LEACHATE, AND ANY OTHER POLLUTANT ASSOCIATED WITH THE CONSTRUCTION AND ASSOCIATED ACTIVITIES.
4. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO THE WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES BE ALLOWED TO ENTER ANY WATERS. CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH ON THE PROJECT SITE.
5. COMPOST FILTER SOCK SHALL BE INSTALLED AS DETAILED ON THE DRAWINGS PRIOR TO STARTING EARTHWORK OPERATIONS AND SHALL REMAIN IN PLACE UNTIL PERMANENT STABILIZATION IS ACHIEVED.
6. COMPOST FILTER SOCK SHALL BE INSTALLED ALONG THE SAME CONTOUR LINE AND LENGTH, THE TOTAL LENGTH OF ONE CONTINUOUS RUN SHALL NOT EXCEED 100 FEET.
7. RING ANY/ALL TEMPORARY STOCKPILES OF SOIL/GRANULAR MATERIALS WITH COMPOST FILTER SOCK TO PREVENT THE MIGRATION OF SILTS AND EROSION. TOPSOIL PILES EXPOSED FOR LONGER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
8. ALL EXCESS CUT/DREDGED/EXCAVATED MATERIALS SHALL BE DISPOSED OF ON AN UPLAND SITE AND BE SUITABLY STABILIZED SO THAT IT CANNOT REASONABLY RE-ENTER ANY WATER BODY OR WETLAND AREA.
9. THE CONTRACTOR SHALL UTILIZE THE ESTABLISHED LIMIT OF DISTURBANCE AREA FOR CONSTRUCTION. A STABILIZED CONSTRUCTION ENTRANCE ALONG WITH ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO LIMIT EXPOSED AREAS AND CONTROL SOIL EROSION.
10. STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED TO PREVENT TRACKING OF SEDIMENT ONTO PAVEMENT AREAS AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES ENTER THE PAVEMENT AREA. THE ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVEMENT. THIS WILL REQUIRE A PERIODIC TOP DRESSING WITH ADDITIONAL STONE FROM AN ON-SITE TEMPORARY STOCKPILE THAT IS KEPT SOLELY FOR THIS PURPOSE. ANY/ALL SEDIMENT SPILLED/DROPPED/TRACKED ON TO A PAVEMENT SURFACE MUST BE REMOVED/CLEANED IMMEDIATELY.
11. THE LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED IN THE CONTRACT DOCUMENTS MAY REQUIRE FIELD ADJUSTMENT DEPENDING ON THE SEQUENCE OF CONSTRUCTION ACTIVITIES, CONSTRUCTION METHODS, AND/OR ACTUAL FIELD CONDITIONS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY/ALL SIGNIFICANT FIELD CHANGES.
12. ALL DISTURBED AREAS SHALL BE GRADED IN A MANNER THAT DIRECTS RUNOFF TO AN EROSION AND SEDIMENT CONTROL PRACTICE AT THE END OF EACH DAY.
13. THE CONTRACTOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. STABILIZATION MEANS COVERING OR MAINTAINING AN EXISTING COVER OVER SOIL. COVER CAN BE VEGETATIVE (GRASS- SEED/MULCH, TURF), OR NON-VEGETATIVE (GEOTEXTILES, RIP-RAP, HARD WEARING SURFACES).
14. WHEN THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURE SHALL BE INITIATED AS SOON AS PRACTICABLE.
15. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE TEMPORARILY CEASES AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES NEED NOT BE INITIATED ON THAT PORTION OF THE SITE.
16. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80% HAS BEEN ESTABLISHED OR THAT EQUIVALENT STABILIZATION MEASURES (GEOTEXTILES, MULCH, RIP-RAP) HAVE BEEN EMPLOYED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES.
17. THE CONTRACTOR SHALL UTILIZE COVERED DUMPSTER'S ON-SITE TO COLLECT/CONTAIN AND DISPOSE/RECYCLE ANY/ALL WASTE MATERIALS/DEBRIS ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES.
18. EXCAVATED MATERIALS SHALL BE TAKEN TO A SOIL STOCKPILE OR TEMPORARILY STOCKPILED ON-SITE WHEN BEING USED IN THE WORK THAT DAY. NO EXCAVATED MATERIALS, OTHER THAN TOPSOIL, SHALL BE STOCKPILED WITHIN THE PROJECT LIMITS UNLESS THEY ARE BEING USED IN THE WORK THAT DAY. TOPSOIL STOCKPILE LOCATIONS SHALL BE AT THE CONTRACTOR'S DISCRETION AND APPROVED BY THE ENGINEER.
19. SEEDING/MULCHING RATES AND MATERIALS WILL BE IN ACCORDANCE WITH THE APPROPRIATE STANDARDS/SPECIFICATIONS.
20. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE STANDARDS OF THE NYSDEC.

OPERATION AND MAINTENANCE PROGRAM NOTES

1. THE OWNER/OPERATOR SHALL DESIGNATE THE RESPONSIBLE CONTRACTOR FOR THE REGULAR MAINTENANCE AND ANY/ALL REPAIRS OF EROSION AND SEDIMENT CONTROL MEASURES.
2. SITE INSPECTIONS SHALL BE CONDUCTED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES EVERY 7 CALENDAR DAYS AND FOLLOWING ANY 1/2" RAIN EVENT.
3. SEDIMENT SHALL BE REMOVED FROM BEHIND THE COMPOST FILTER SOCK WHENEVER IT BECOMES ONE-HALF (1/2) THE DEPTH OF THE SOCK, AND ANY/ALL REPAIRS WILL BE MADE IN ORDER TO CONTINUOUSLY MAINTAIN A BARRIER.
4. THE THICKNESS OF THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY TOP DRESSING WITH STONE. A STOCKPILE OF STONE SHALL BE MAINTAINED ON THE SITE FOR THIS PURPOSE.
5. WINTER SITE STABILIZATION AND REDUCED SITE INSPECTIONS REQUIREMENTS ARE NOTED IN THE FOLLOWING:
- a. IF THE SOIL DISTURBANCE IS COMPLETELY SUSPENDED AND THE SITE IS PROPERLY STABILIZED THE SITE INSPECTION FREQUENCY MAY BE REDUCED, PROVIDING THAT WRITTEN NOTIFICATION HAS BEEN MADE BY THE CONTRACTOR TO THE NYSDEC OFFICE, BUT THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF MONTHLY INSPECTIONS IN ALL SITUATIONS (EVEN WHEN THERE IS TOTAL WINTER SHUTDOWN). DURING PERIODS OF REDUCED INSPECTION FREQUENCY, INSPECTIONS MUST STILL BE DONE AFTER EVERY STORM EVENT OF 0.5 INCHES OR MORE.
- b. IN ORDER TO ALLOW FOR THE REDUCTION OF SITE INSPECTION FREQUENCIES, THE CONTRACTOR MUST COMPLETE STABILIZATION ACTIVITIES (PERIMETER CONTROLS, TRAPS, BARRIERS, ETC) BEFORE PROPER INSTALLATION IS PRECLUDED BY SNOW COVER OR FROZEN GROUND. IF VEGETATION IS DESIRED, THEN THE SEEDING/PLANTING/SODDING MUST BE SCHEDULED TO AVOID DIE-OFF FROM FROSTS/FREEZES AND MUST ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF THE COVER.
- c. FROZEN GROUND, WINTER CONDITIONS, AND EQUIPMENT CAN AFFECT EROSION AND SEDIMENT CONTROL PRACTICES. CHECK FOR DAMAGE DURING THE REQUIRED INSPECTION TIMES AND REPAIR AS NECESSARY. IT IS ESPECIALLY IMPORTANT DURING THAWS AND PRIOR TO SPRING RAIN EVENTS. WEEKLY INSPECTIONS MUST RESUME NO LATER THAN MARCH 15 OR AS DIRECTED BY THE NYSDEC.
6. ALL EROSION AND SEDIMENT CONTROLS MEASURES MUST BE INSTALLED AND MAINTAINED ACCORDING TO THE NEW YORK STATE [NYS] STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. THE MAIN REQUIREMENTS ARE NOTED IN THE FOLLOWING:
- a. SITE STABILIZATION - ALL BARE/EXPOSED SOILS MUST BE STABILIZED BY AN ESTABLISHED VEGETATION, STRAW OR MULCH (COVERAGE AT 3-TONS PER ACRE) , MATTING, ROCK OR OTHER APPROVED PRODUCT SUCH AS EROSION CONTROL BLANKET PRODUCTS. SEEDING OF AREAS ALONG WITH MULCHING IS ENCOURAGED. HOWEVER, SEEDING ALONE IS NOT CONSIDERED ACCEPTABLE FOR PROPER STABILIZATION.
- b. COMPOST FILTER SOCK - SEDIMENT BARRIERS MUST BE PROPERLY INSTALLED AT ALL PERIMETER AND SENSITIVE LOCATIONS.
- c. SLOPES - ALL SLOPES, SWALES, PONDING AREAS, AND GRADES MUST BE PROPERLY STABILIZED WITH APPROVED METHODS. EROSION CONTROL BLANKET PRODUCTS MUST BE USED ON ALL SLOPES OF 3"-HORIZONTAL TO 1"-VERTICAL, OR WHERE CONDITIONS FOR EROSION DICTATE SUCH MEASURES.
- d. TEMPORARY STOCKPILES OF SOILS/GRANULAR MATERIALS - THESE STOCKPILES MUST BE PROTECTED BY A BARRIER INSTALLED AROUND THE PILE TO PREVENT EROSION AWAY FROM THAT LOCATION. SOIL STOCKPILES MUST FURTHER BE PROTECTED BY THE USE OF ESTABLISHED VEGETATION, AND ANCHORED-DOWN STRAW OR MULCH, ROLLED EROSION CONTROL PRODUCT OR OTHER DURABLE COVERING. ACCESS TO THE STOCKPILES TO BE PROVIDED ON THE UPLAND SIDE OF THE STOCKPILE.
- e. STABILIZED CONSTRUCTION ENTRANCE - ALL ENTRANCE/EXIT LOCATIONS TO THE SITE MUST BE PROPERLY STABILIZED AND MUST BE MAINTAINED TO ACCOMMODATE SNOW MANAGEMENT AS SET FORTH IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- f. SNOW MANAGEMENT - SNOW MANAGEMENT MUST NOT DESTROY/DEGRADE EROSION AND SEDIMENT CONTROL PRACTICES.

TOPSOIL AND SEEDING NOTES

1. ALL STORMWATER CONTROL MEASURES WILL BE INSTALLED AS NEEDED PRIOR TO FINAL GRADING AND SEEDBED PREPARATION.
2. ANY SEVERELY COMPACTED SECTIONS WILL REQUIRE CHISELING OR DISKING TO PROVIDE AN ADEQUATE ROOTING ZONE, TO A MINIMUM DEPTH OF 12". THE SEEDBED MUST BE PREPARED TO ALLOW GOOD SOIL TO SEED CONTACT, WITH THE SOIL NOT TOO SOFT AND NOT TOO COMPACT. ADEQUATE SOIL MOISTURE MUST BE PRESENT TO ACCOMPLISH THIS. IF SURFACE IS POWDER DRY OR STICKY WET, POSTPONE OPERATIONS UNTIL MOISTURE CHANGES TO A FAVORABLE CONDITION. IF SEEDING IS ACCOMPLISHED WITHIN 24 HOURS OF FINAL GRADING, ADDITIONAL SCARIFICATION IS GENERALLY NOT NEEDED, ESPECIALLY ON DITCH OR STREAM BANKS. REMOVE ALL STONES AND OTHER DEBRIS FROM THE SURFACE THAT ARE GREATER THAN 4 INCHES, OR THAT WILL INTERFERE WITH FUTURE MOWING OR MAINTENANCE.
3. GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF THREE (3) TO FIVE (5) INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE.
4. TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF FOUR (4) TO EIGHT (8) INCHES MINIMUM (TWO (2) INCHES OF FILL OUTSLOPES). SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACES RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS UNLESS SUCH DEPRESSIONS ARE PART OF THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN.
5. TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
6. THE CONTRACTOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
7. IN NO CASE SHALL AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE ESTABLISHED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. APPLY MULCH AT A RATE OF THREE (3) TONS PER ACRE.
8. SOIL AMENDMENTS SHOULD BE INCORPORATED INTO THE UPPER 2 INCHES OF SOIL WHEN FEASIBLE. THE SOIL SHOULD BE TESTED TO DETERMINE THE AMOUNTS OF AMENDMENTS NEEDED. APPLY GROUND AGRICULTURAL LIMESTONE TO ATTAIN A PH OF 6.0 IN THE UPPER 2 INCHES OF SOIL AND COMMERCIAL FERTILIZER AT THE RATES SPECIFIED BELOW. IF MANURE IS USED, APPLY A QUANTITY TO MEET THE NUTRIENTS OF THE ABOVE FERTILIZER. THIS REQUIRES AN APPROPRIATE MANURE ANALYSIS PRIOR TO APPLYING TO THE SITE. DO NOT USE MANURE ON SITES TO BE PLANTED WITH BIRDSFOOT TREFOIL OR IN THE PATH OF CONCENTRATED WATER FLOW.
9. SEED MIXTURES MAY VARY DEPENDING ON LOCATION WITHIN THE STATE AND TIME OF SEEDING. GENERALLY, SPRING SEEDING IS ALWAYS PREFERRED AND WARM SEASON GRASSES SHOULD ONLY BE SEEDED DURING EARLY SPRING, (APRIL/MAY). GRASSES MAY BE SEEDED AT ANY TIME OF THE YEAR WHEN THE SOIL IS NOT FROZEN AND IS WORKABLE, AND WHEN ADEQUATE WATER MANAGEMENT PRACTICES ARE IN PLACE. THE GENERAL SEED MIXES ARE AS NOTED IN THE FOLLOWING:
- a. TEMPORARY SEEDING:
- | PLANTING CONDITIONS | VARIETY | RATE (LBS/ACRE) | RATE (LBS/1000 SY) |
|--------------------------|---------------------------|-----------------|--------------------|
| SPRING/SUMMER/EARLY FALL | ANNUAL/PERENNIAL RYEGRASS | 50 | 10 |
| LATE FALL/EARLY WINTER | AROOSTOCK/WINTER RYE | 100 | 20 |
- SOIL AMENDMENTS: IF SOIL TEST RESULTS ARE NOT AVAILABLE, APPLY AGRICULTURAL GRADE LIME AT A RATE OF 1 TON/ACRE, OR 400 LBS/1,000 SY AND FERTILIZER 10-10-10 AT A RATE OF 1000 LBS/ACRE OR 200 LB/1,000 SY;
- SPREAD MULCH (STRAW OR HAY) AT A RATE OF 3 TONS/ACRE, OR 1200 LBS/1,000 SY.
- b. PERMANENT SEEDING- SLOPES < 3:1; GENERAL PURPOSE SEED MIX; NOT FOR TURF PLANTINGS OR PLAYGROUNDS:
- | SEED MIXTURE (FORMULA D) | VARIETY | RATE (LBS/ACRE) | RATE (LBS/1000 SY) |
|--------------------------|---------------------------|-----------------|--------------------|
| CREEPING RED FESCUE | ENSYLVA, PENNLAWN, BOREAL | 20 | 4 |
| TALL FESCUE | KY 31, REBEL | 20 | 4 |
| PERENNIAL RYEGRASS | PENNFINE, LINN | 5 | 1 |
| BIRDSFOOT TREFOIL | EMPIRE, PARDEE | 10 | 2 |
- SOIL AMENDMENTS: IF SOIL TEST RESULTS ARE NOT AVAILABLE, APPLY AGRICULTURAL GRADE LIME AT A RATE OF 2 TONS/ACRE, OR 800 LBS/1,000 SY AND FERTILIZER 10-20-10 AT A RATE OF 696 LBS/ACRE OR 140 LB/1,000 SY.
- SPREAD MULCH (STRAW) AT A RATE OF 3 TONS/ACRE, OR 1200 LBS/1,000 SY.
- c. PERMANENT SEEDING- SLOPES > 3:1:
- | SEED MIXTURE (FORMULA C) | VARIETY | RATE (LBS/ACRE) | RATE (LBS/1000 SY) |
|--------------------------|----------------|-----------------|--------------------|
| TALL FESCUE | KY 31, REBEL | 80 | 16 |
| PERENNIAL RYEGRASS | PENNFINE, LINN | 20 | 4 |
- SOIL AMENDMENTS: IF SOIL TEST RESULTS ARE NOT AVAILABLE, APPLY AGRICULTURAL GRADE LIME AT A RATE OF 2 TONS/ACRE, OR 800 LBS/1,000 SY AND FERTILIZER 10-20-10 AT A RATE OF 696 LBS/ACRE OR 140 LB/1,000 SY.
- SPREAD MULCH (STRAW) AT A RATE OF 3 TONS/ACRE, OR 1200 LBS/1,000 SY.
- d. WETLAND SEEDING
- | SEED MIXTURE (FORMULA W) | VARIETY | % BY WEIGHT | MIN. % PURITY | MIN. % GERMINATION | MAX. % SEED WEED | SEED RATE LBS./1000 SY |
|--------------------------|----------------|-------------|---------------|--------------------|------------------|------------------------|
| TALL FESCUE | KY 31, REBEL | 30 | 96 | 85 | 0.10 | 4.5 |
| BIRDSFOOT TREFOIL | EMPIRE, PARDEE | 10 | 92 | 80(A) | 0.10 | 1.5 |
| REDTOP | | 10 | 92 | 80 | 0.20 | 1.5 |
| VIRGINIA WILD RYE | | 24 | 85 | 70 | 0.20 | 3.6 |
| TYOGA DEERTONGUE | | 14 | 95 | 80 | 0.20 | 2.1 |
| FOX SEDGE | | 12 | 85 | 60 | 0.20 | 1.8 |
- (A) INCLUDING HARD SEED AND NORMAL SEEDLINGS
- SOIL AMENDMENTS: NONE, DO NOT USE SOIL AMENDMENTS IN AREAS TO RECEIVE WETLAND SEEDING MIX.
- SPREAD MULCH (STRAW) AT A RATE OF 1.5 TONS/ACRE, OR 600 LBS/1,000 SY.
- FORMULA W- FOR USE ON NON-MOW CONDITIONS RANGING FROM FAIRLY DRY TO FAIRLY WET. WILL ALLOW INVASION AND SUCCESSION OF ADJACENT NATIVE PLANT MATERIALS.
- SEEDING SCHEDULE
- SPREAD SEEDS WHERE INDICATED AND AT THE RATES SPECIFIED IN THE ABOVE TABLE, OR AS OTHERWISE INDICATED. SPREAD SEEDS WITHIN THE FOLLOWING DATES OR AS OTHERWISE INDICATED OR DIRECTED:
- FORMULA C & D: MARCH 15 TO JUNE 1
AUGUST 1 TO OCTOBER 15
- FORMULA W: APRIL 1 TO JUNE 15
AUGUST 16 TO SEPTEMBER 15
10. THE OPTIMUM TIME FOR SEEDING IS SPRING. PERMANENT SEEDING MAY BE MADE ANY TIME OF YEAR IF PROPERLY MULCHED (3-TONS PER ACRE), AND PROVIDING THAT ADEQUATE WATER MANAGEMENT PRACTICES ARE IN PLACE. JUNE THROUGH EARLY AUGUST IS NOT A GOOD TIME TO SEED, BUT MAY FACILITATE COVERING THE LAND WITHOUT ADDITIONAL DISTURBANCE IF CONSTRUCTION IS COMPLETED. PORTIONS OF THE SEEDING MAY FAIL DUE TO DROUGHT AND HEAT, AND THESE AREAS MUST BE RE-SEEDED IN LATE SUMMER/ EARLY FALL OR THE FOLLOWING SPRING.
11. ACCEPTABLE METHODS OF SEEDING INCLUDE BROADCASTING, DRILLING, CULTIPACK TYPE SEEDING, OR HYDROSEEDING. PROPER SOIL TO SEED CONTACT IS KEY TO SUCCESSFUL SEEDING.
12. MULCHING IS ESSENTIAL TO OBTAIN A UNIFORM STAND OF SEEDED PLANTS. OPTIMUM BENEFITS OF MULCHING ARE OBTAINED WITH THE USE OF SMALL GRAIN STRAW APPLIED AT THE RATES SPECIFIED ABOVE AND ANCHORED WITH A NETTING OR TACKIFIER.
13. ADEQUATE WATER MANAGEMENT PRACTICES ARE ESSENTIAL TO ESTABLISHING A NEW SEEDING WHEN DROUGHT CONDITIONS OCCUR SHORTLY AFTER A NEW SEEDING EMERGES. IRRIGATION IS A SPECIALIZED PRACTICE AND CARE MUST BE TAKEN NOT TO EXCEED THE APPLICATION RATE FOR THE SOIL OR SUBSOIL. WHEN DISCONNECTING IRRIGATION PIPE, BE SURE PIPES ARE DRAINED IN A SAFE MANNER, NOT CREATING AN EROSION CONCERN.
14. IF A UNIFORM 70% COVER IS NOT ESTABLISHED ON ALL LAWN AREAS BY OCTOBER 15, THE CONTRACTOR SHALL LOOSEN THE SOIL SURFACE AND APPLY ADDITIONAL TOPSOIL, AND APPLY SOIL AMENDMENTS, SEED, AND MULCH TO THE EXTENT REQUIRED TO ESTABLISH ADEQUATE COVER.
15. IF A UNIFORM 90% COVER IS NOT ESTABLISHED ON ALL SLOPES BY OCTOBER 15, ALL BARREN AREAS SHALL BE REPLANTED IN ACCORDANCE WITH THE DIRECTIONS IN ITEMS 5 AND 6.
16. ALL VEGETATION SHALL BE GUARANTEED TO ACHIEVE 100% COVERAGE WITHIN ONE YEAR, OR PLANTING SHALL CONTINUE UNTIL 100% COVERAGE IS ACHIEVED.

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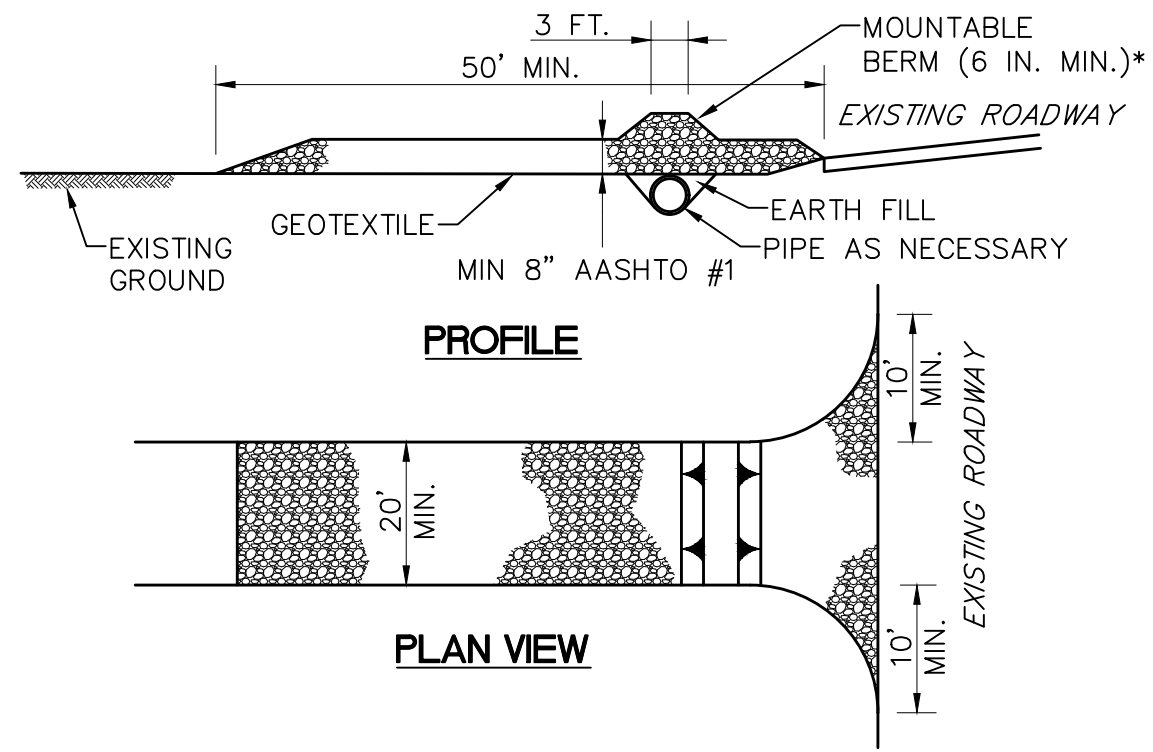
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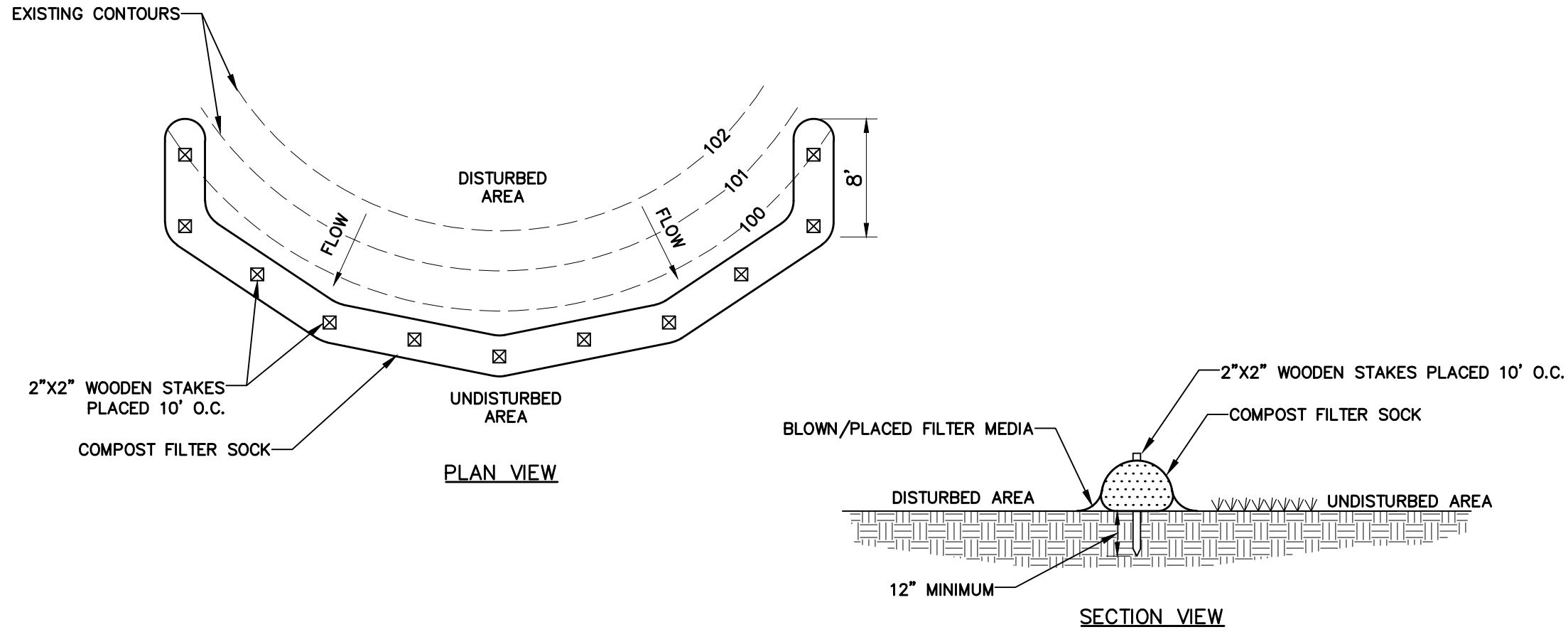


* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
2. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
3. MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
4. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

1 ROCK CONSTRUCTION ENTRANCE SCALE: NTS



NOTES:

1. SOCK FABRIC SHALL MEET STANDARDS OF TABLE 5.1. COMPOST SHALL MEET THE STANDARDS LISTED ON OF TABLE 5.2.
2. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN ON FIGURE 5.3. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
3. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
4. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVEGROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
5. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
6. BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCKS, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

2 COMPOST FILTER SOCK SCALE: NTS

TABLE 5.1 - COMPOST SOCK FABRIC MINIMUM SPECIFICATIONS

MATERIAL TYPE	3 MIL HDPE	5 MIL HDPE	5 MILL HDPE	MULTI-FILAMENT POLYPROPYLENE (MFPP)	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFPP)
MATERIAL CHARACTERISTICS	PHOTODEGRADABLE	PHOTODEGRADABLE	BIODEGRADABLE	PHOTODEGRADABLE	PHOTODEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	1/8"
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR.	23% AT 1000 HR.		100% AT 1000 HR.	100% AT 1000 HR.
MINIMUM FUNCTIONAL LONGEVITY	6 MONTHS	9 MONTHS	6 MONTHS	1 YEAR	2 YEARS

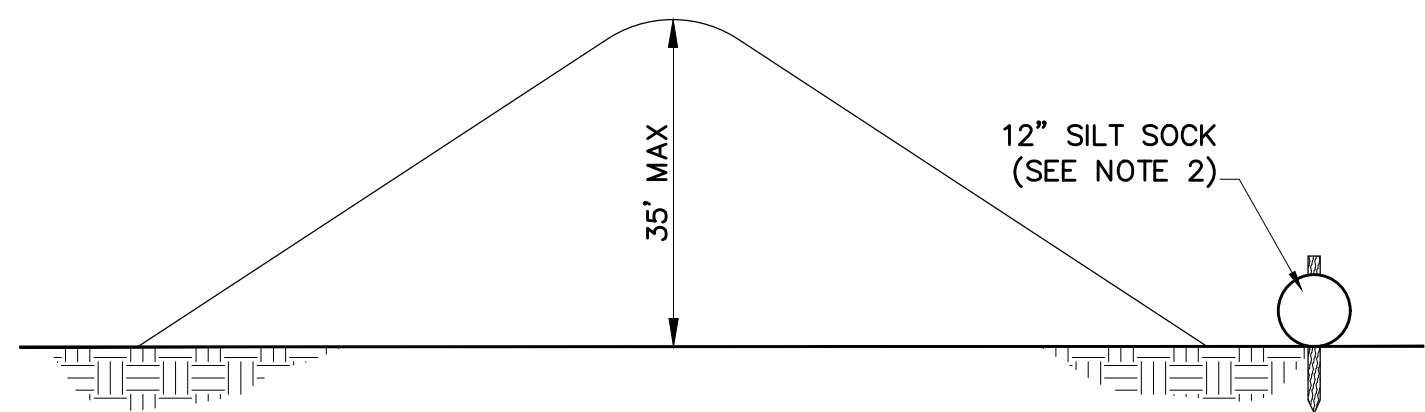
TABLE 5.2- COMPOST STANDARDS

ORGANIC MATTER CONTENT	25% - 100% (DRY WEIGHT)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	6.0 - 8.0
MOISTURE CONTENT	30% - 60%
PARTICLE SIZE	100% PASSING A 1" SCREEN AND 10% - 50% PASSING A 3/8" SCREEN
SOLUBLE SALT CONCENTRATION	5.0 dS/M (MMHOS/CM) MAXIMUM

FROM NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, PAGES 5.7-5.8, NOVEMBER 2016.

TABLE 5.3 - MAXIMUM SLOPE LENGTH ABOVE COMPOST SOCK

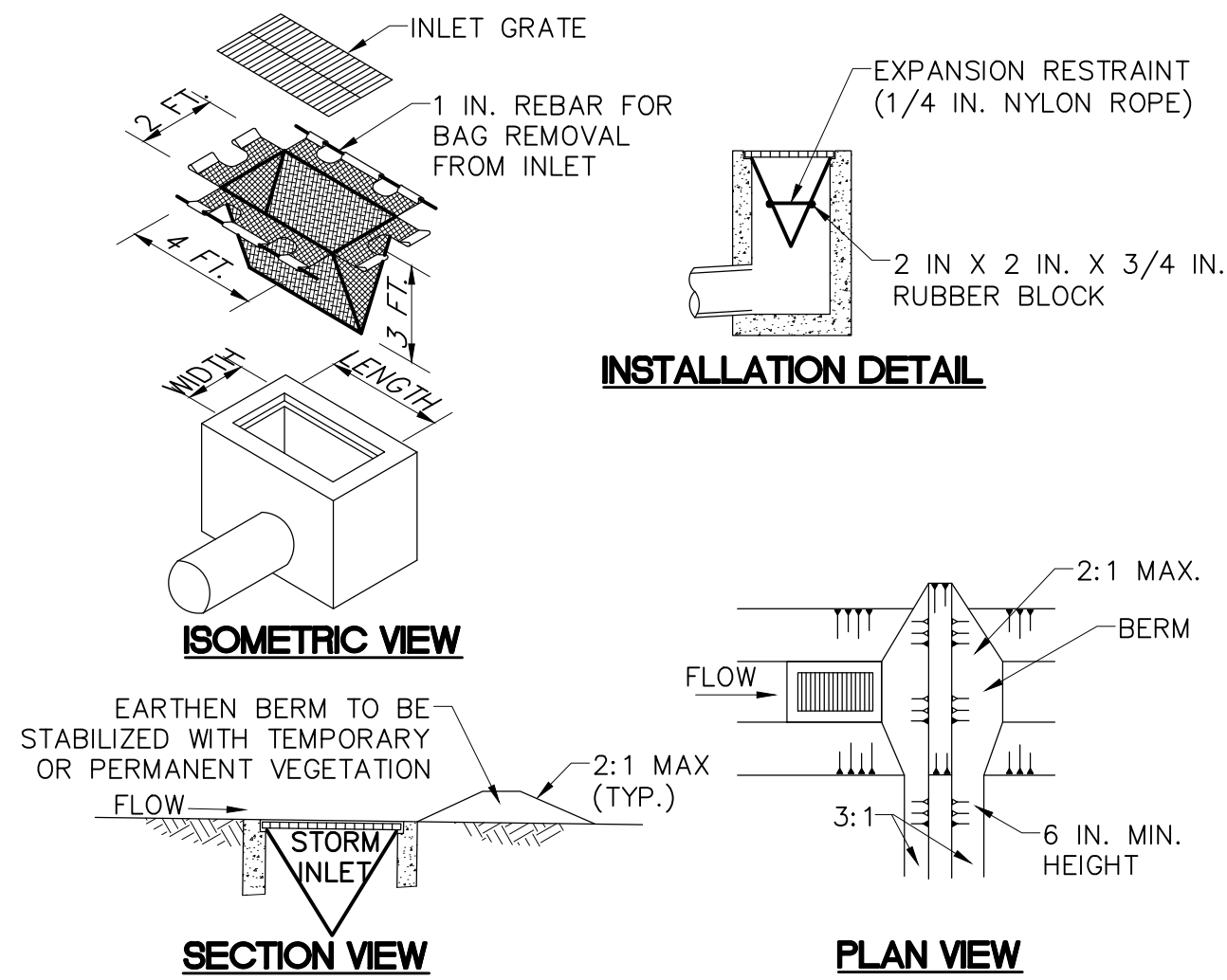
SOCK DIA.	SLOPE					
	2%	5%	10%	20%	25%	33%
8" *225	200	100	50	20	--	--
12"	250	225	125	65	50	40
18"	275	250	150	70	55	45
24"	350	275	200	130	100	60
32"	450	325	275	150	120	75
	*LENGTH IN FEET					



NOTES:

1. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
2. SILT SOCK SHALL BE INSTALLED AT THE DOWN SLOPE SIDE OF THE MATERIAL STOCKPILE. SILT SOCK SHALL ENIRCLE STOCKPILES SITUATED ON LEVEL GROUND.
3. MATERIAL STOCKPILES TO REMAIN UNDISTURBED MORE THAN 14 DAYS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH.
4. MATERIAL STOCKPILE LOCATIONS SHALL BE PROVIDED WHERE INDICATED ON THE PLAN, OR ALTERNATE LOCATION APPROVED BY OWNER.

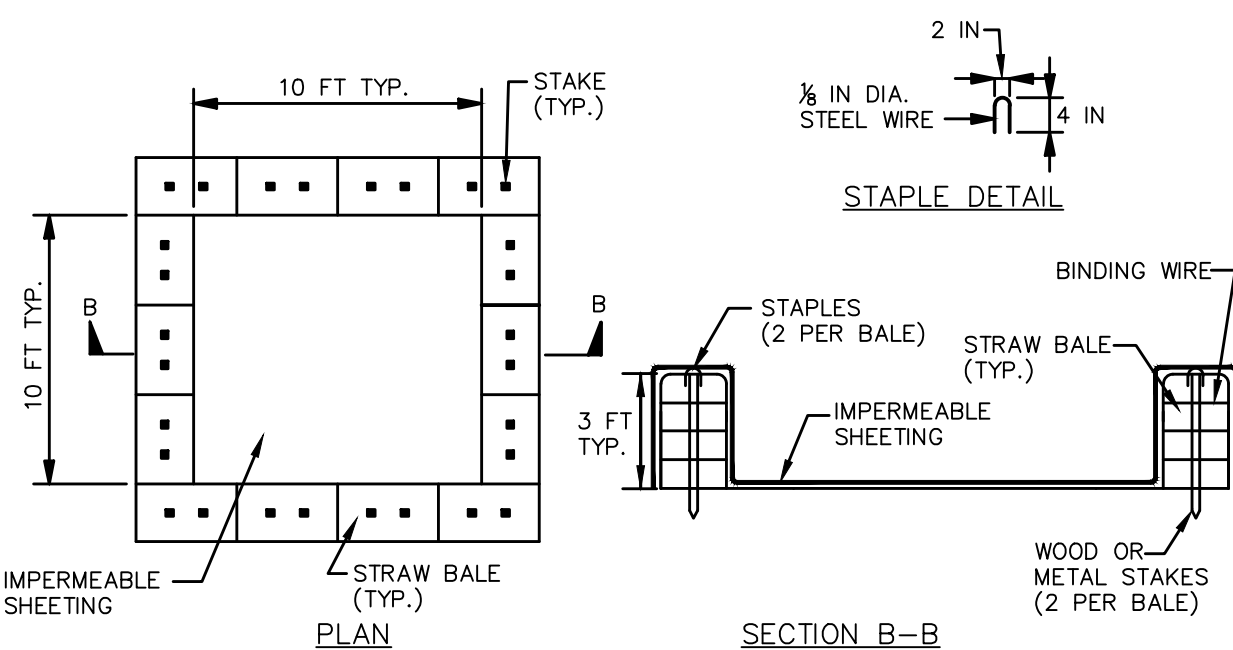
3 MATERIAL STOCKPILE SCALE: NTS



NOTES:

1. MAXIMUM DRAINAGE AREA = 1/2 ACRE.
2. INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.
3. ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.
4. AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
5. INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.
6. DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

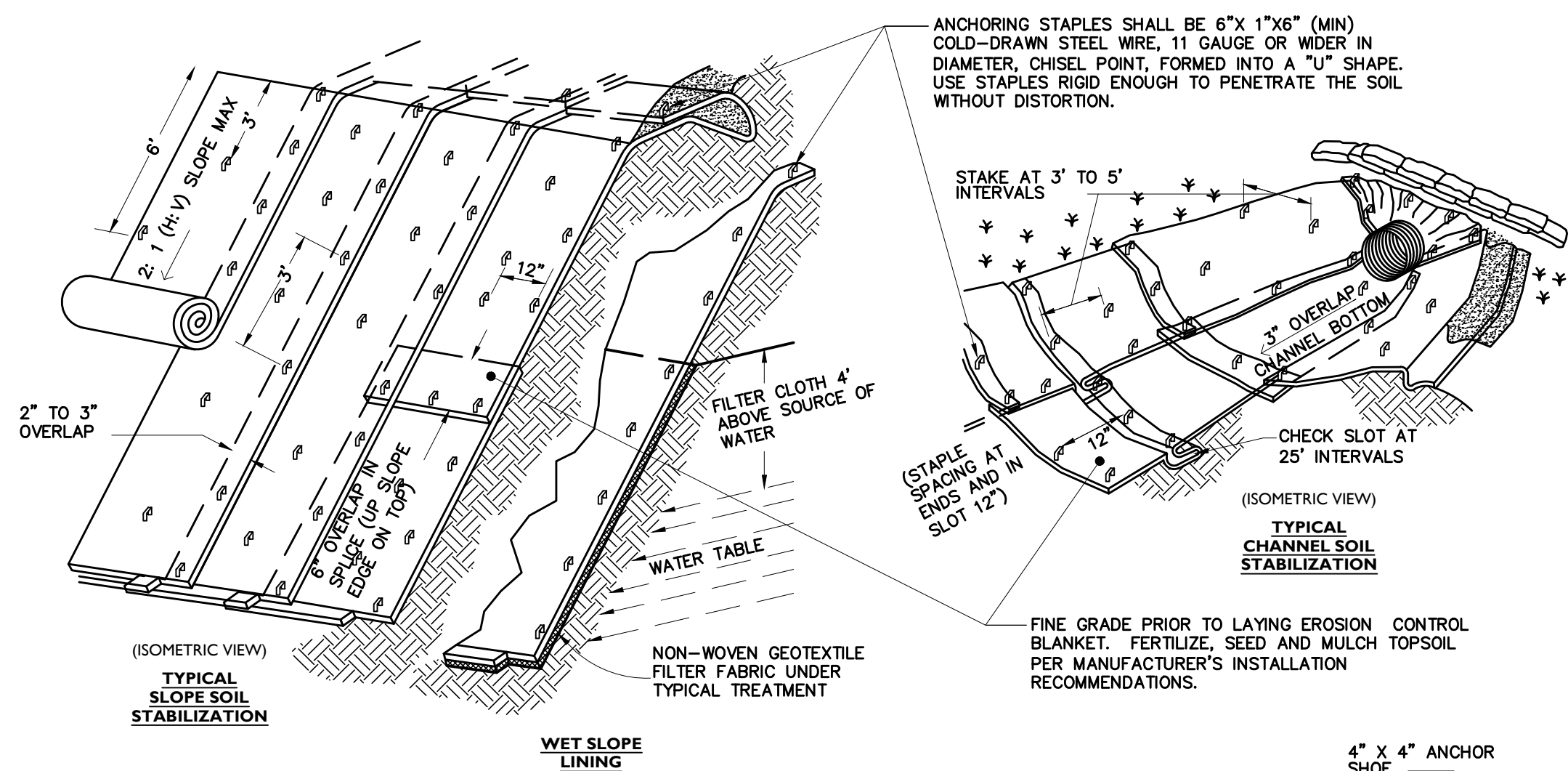
4 FILTER BAG INLET PROTECTION SCALE: NTS



NOTES:

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 100 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER, SOLIDS AND RAINFALL AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.
6. DURABLE PORTABLE CONCRETE WASHOUT BASINS OR TUBS MAY BE USED WITH THE APPROVAL OF THE EROSION CONTROL INSPECTOR.

5 STRAW BALE CONCRETE WASHOUT SCALE: NTS



NOTES:

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. LAY BLANKETS LOOSELY AND STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
3. FOR JUTE MESH APPLICATION, BIODEGRADABLE ANCHOR STAPLES PER MANUFACTURER'S RECOMMENDATIONS MAY BE SUBSTITUTED FOR STAPLES.
4. CONSTRUCT CHECK SLOTS PER MANUFACTURER'S RECOMMENDATIONS.
5. STAPLING LAYOUT AS SHOWN, OR PER MANUFACTURER'S RECOMMENDATIONS.
6. INSTALL BLANKETS PER MANUFACTURER'S RECOMMENDATIONS.

6 EROSION CONTROL BLANKET SCALE: NTS

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