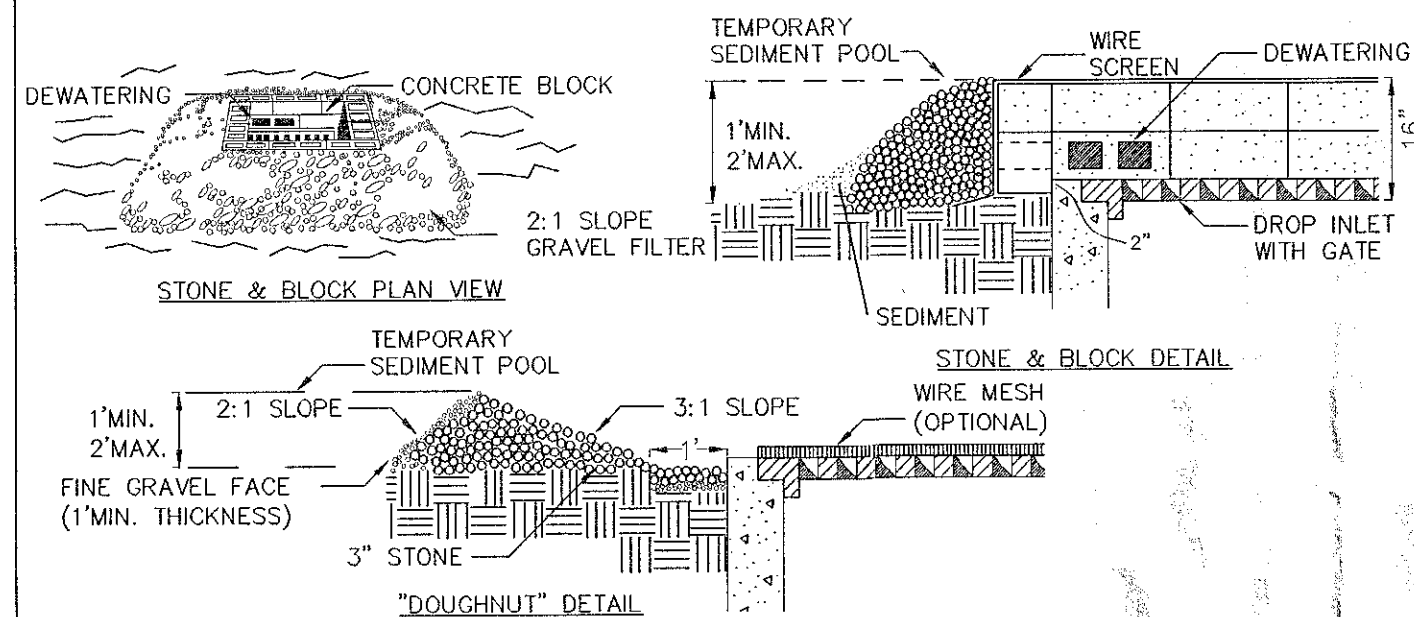


- SEEDING AND MULCHING GUIDES - CUT/FILL SLOPES**  
NOT TO SCALE
1. WHEN CUT/FILL SLOPE HAS BEEN COMPLETED, THE SLOPE SHOULD BE TRIMMED AND THE PERMANENT EROSION CONTROL MEASURES OF SEEDING AND MULCHING SHOULD BE CARRIED OUT. IF THE CUT/FILL IS TRIMMED OUT OF SEASON (FROM NOV. 1 THROUGH APRIL 1), MULCH THE SLOPE AND SEED ON TOP OF THE MULCH IN THE NEXT SEEDING SEASON.
2. IF THE SLOPE CANNOT BE COMPLETED BECAUSE PAVING IS REQUIRED OR FOR OTHER REASONS, THE SEEDING AND MULCHING SHOULD BE COMPLETED TO THE MAXIMUM EXTENT POSSIBLE.
3. WHEN THE CUT/FILL CANNOT BE BROUGHT TO FINAL GRADE IN A REASONABLE LENGTH OF TIME IT SHOULD BE MULCHED PER GP-10-01.
4. PROVIDE A CONTINUOUS LINE OF SILT FENCE AT THE PERIMETER OF SLOPES UNTIL THE FINAL STABILIZATION HAS BEEN APPROVED BY THE DESIGN ENGINEER OR THE INSPECTING PROFESSIONAL.
5. ALL FILL SLOPES AND CONSTRUCTED EMBANKMENTS SHALL BE INSTALLED IN ACCORDANCE WITH NYS DOT STANDARD SPECIFICATIONS SECTION 203 (EXCAVATION AND EMBANKMENT).



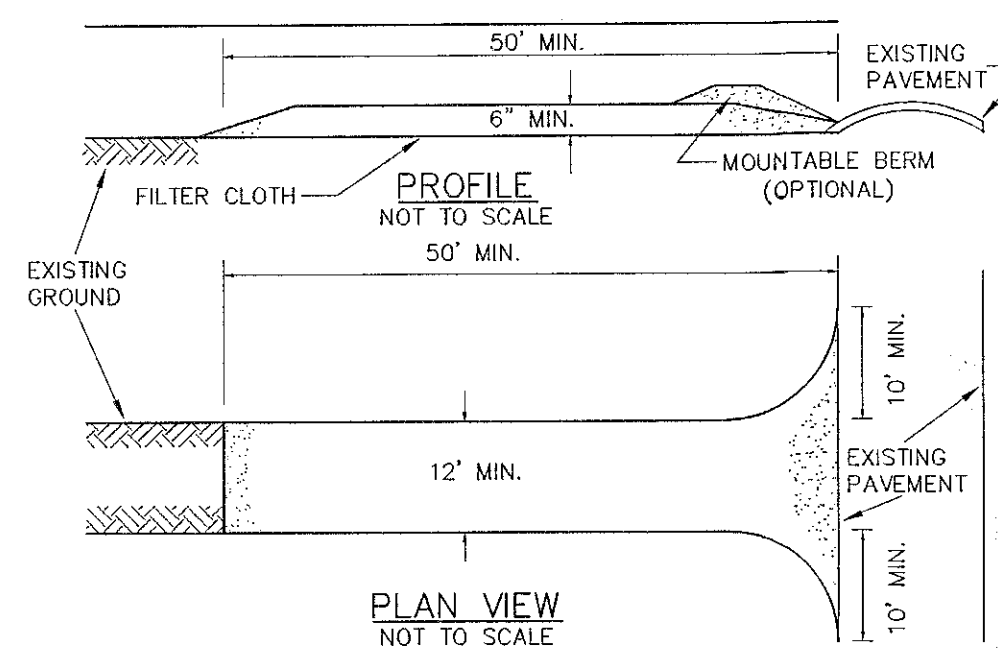
#### CONSTRUCTION SPECIFICATIONS

- LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
- HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
- USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
- FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

#### STONE & BLOCK DROP INLET PROTECTION DETAILS FOR PAVED AREAS

NOT TO SCALE



#### CONSTRUCTION SPECIFICATIONS

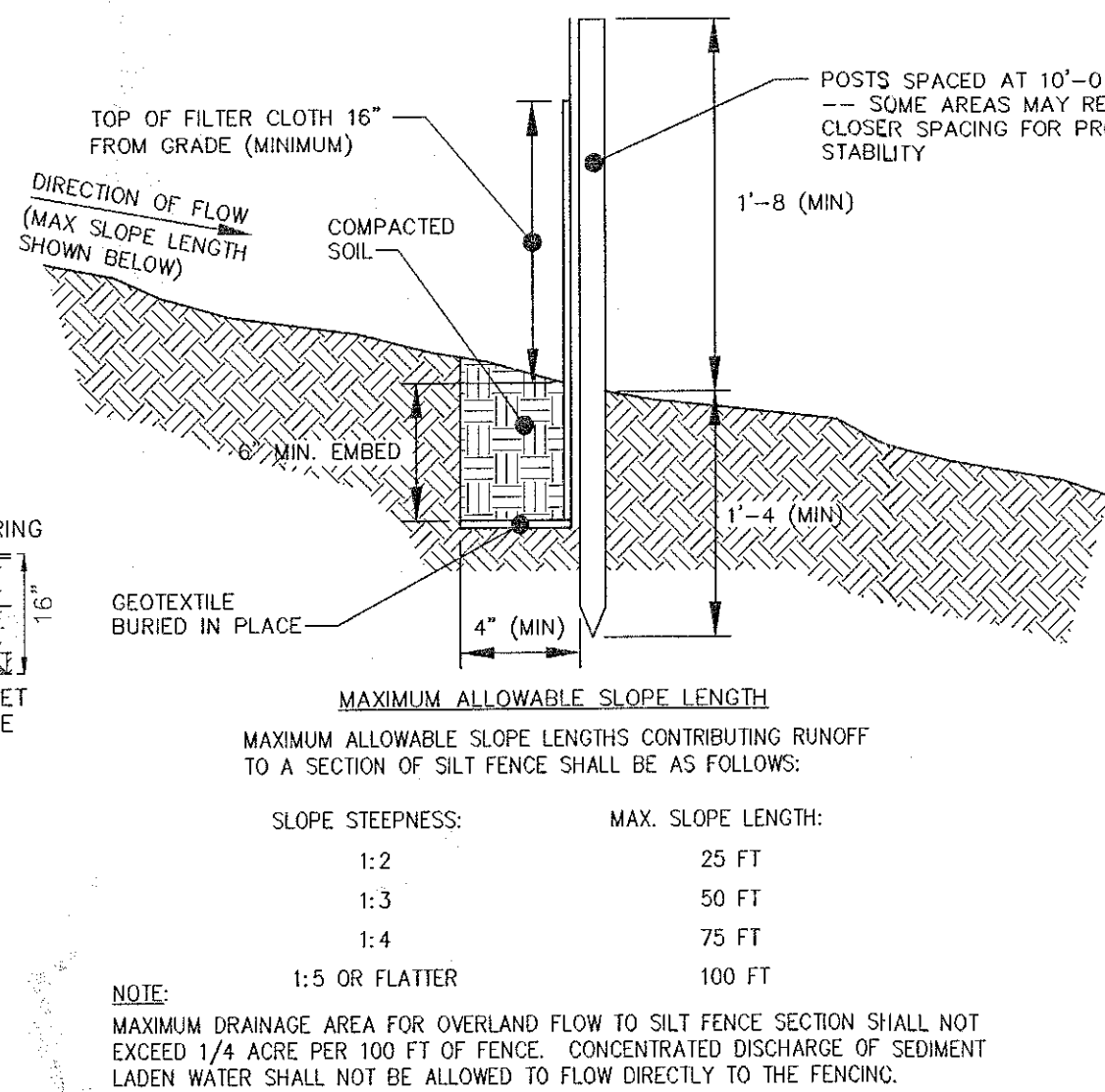
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FEET MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT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

#### STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

#### RIP-RAP THICKNESS

D-50 (INCHES)	dmax (INCHES)	MINIMUM BLANKET THICKNESS (INCHES)
2	3	4.5
3	4.5	6.75
4	6	9
5	7.5	11.25
6	9	13.5
7	10.5	15.75



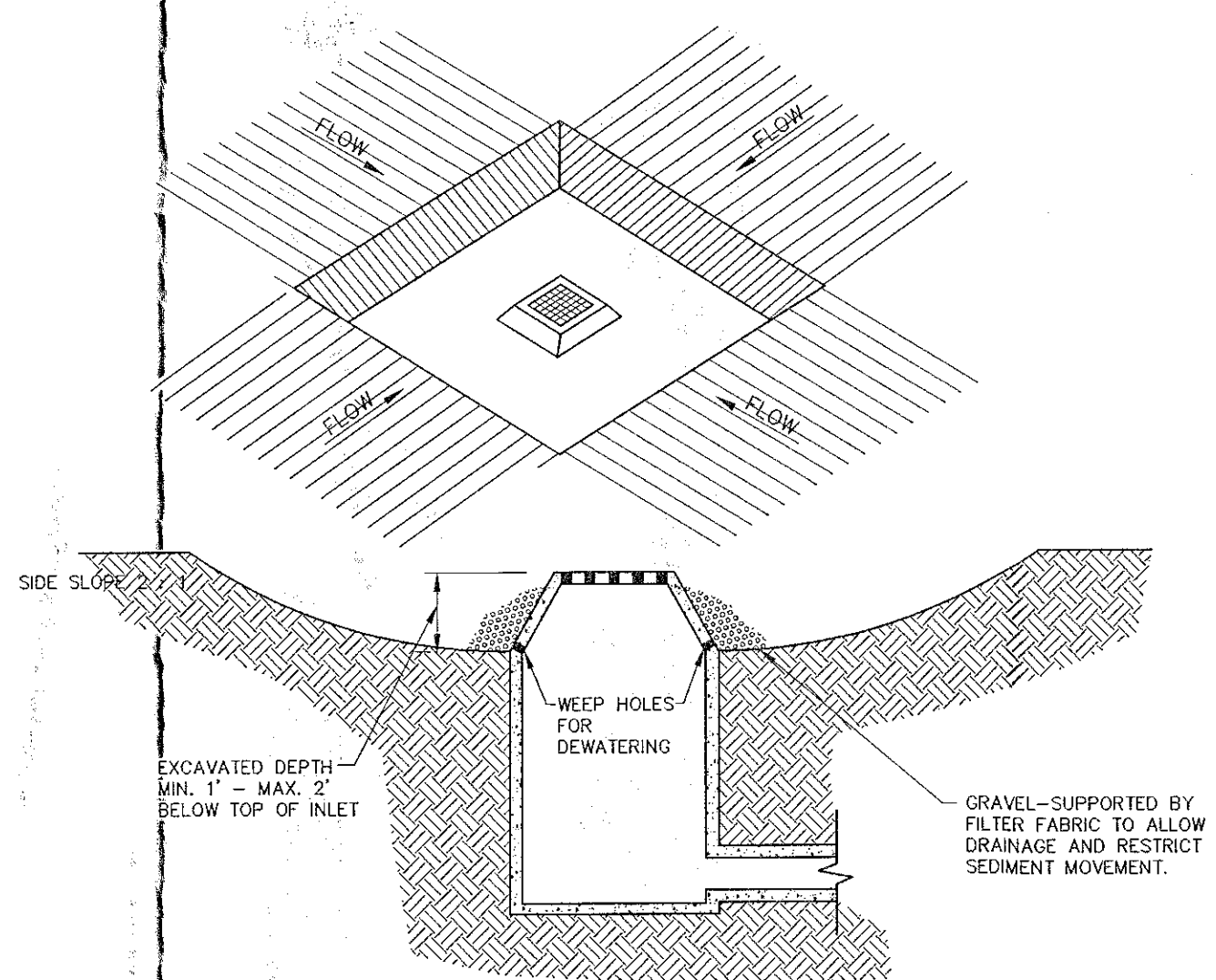
#### CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- INSTALL SILT FENCE IN ACCORDANCE WITH THE "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", SECTION 7A.
- FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WRF FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID S.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE WRAPPED TOGETHER PER DETAIL 4 ON THIS PAGE.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN ACCUMULATION REACHES 1/2 OF DESIGN CAPACITY OF FENCE (1/2 HEIGHT OF FILTER FABRIC) OR WHEN "BULGES" DEVELOP IN FENCING.

POSTS: STEEL EITHER "1" OR "2" TYPE OR 2" HARDWOOD

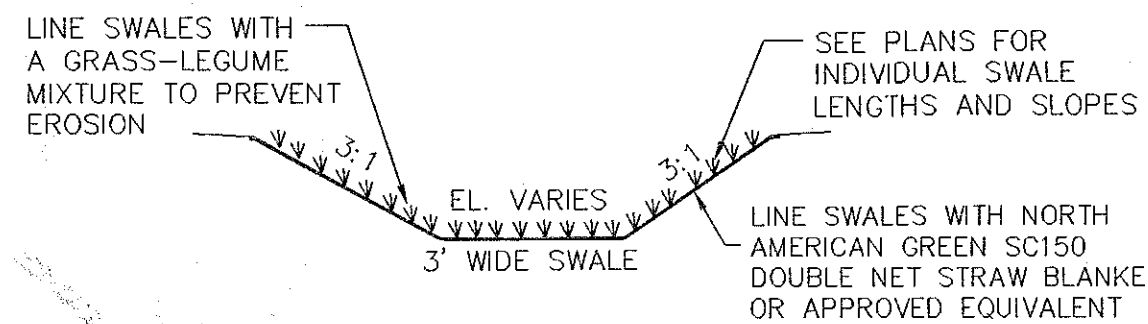
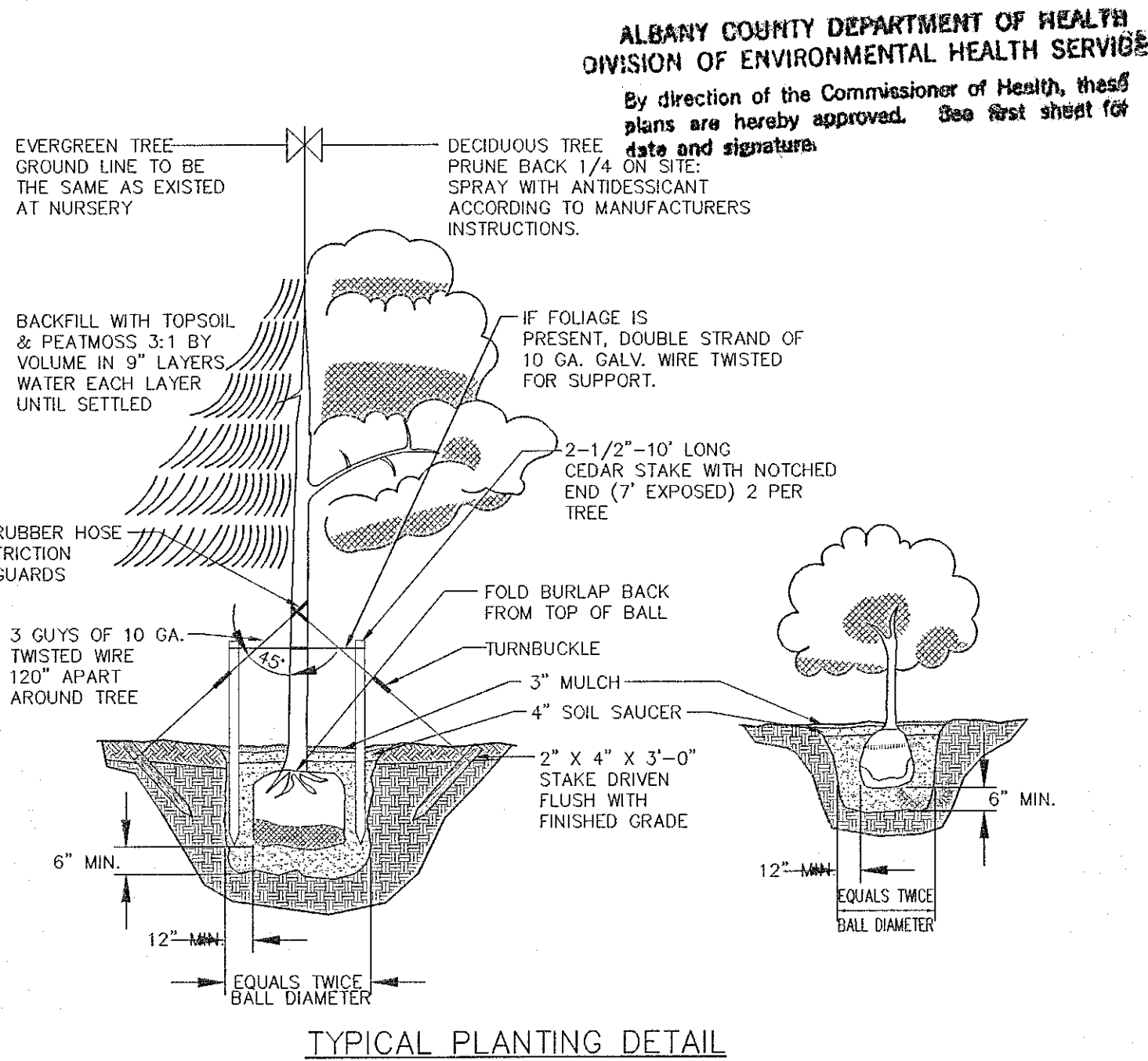
FILTER CLOTH: FILTER X, MRAF 100X, STABUNKA 1140N OR AFF

PREFABRICATED UNIT: GEOFAB, ENVROFENCE, OR APPROVED EQUAL



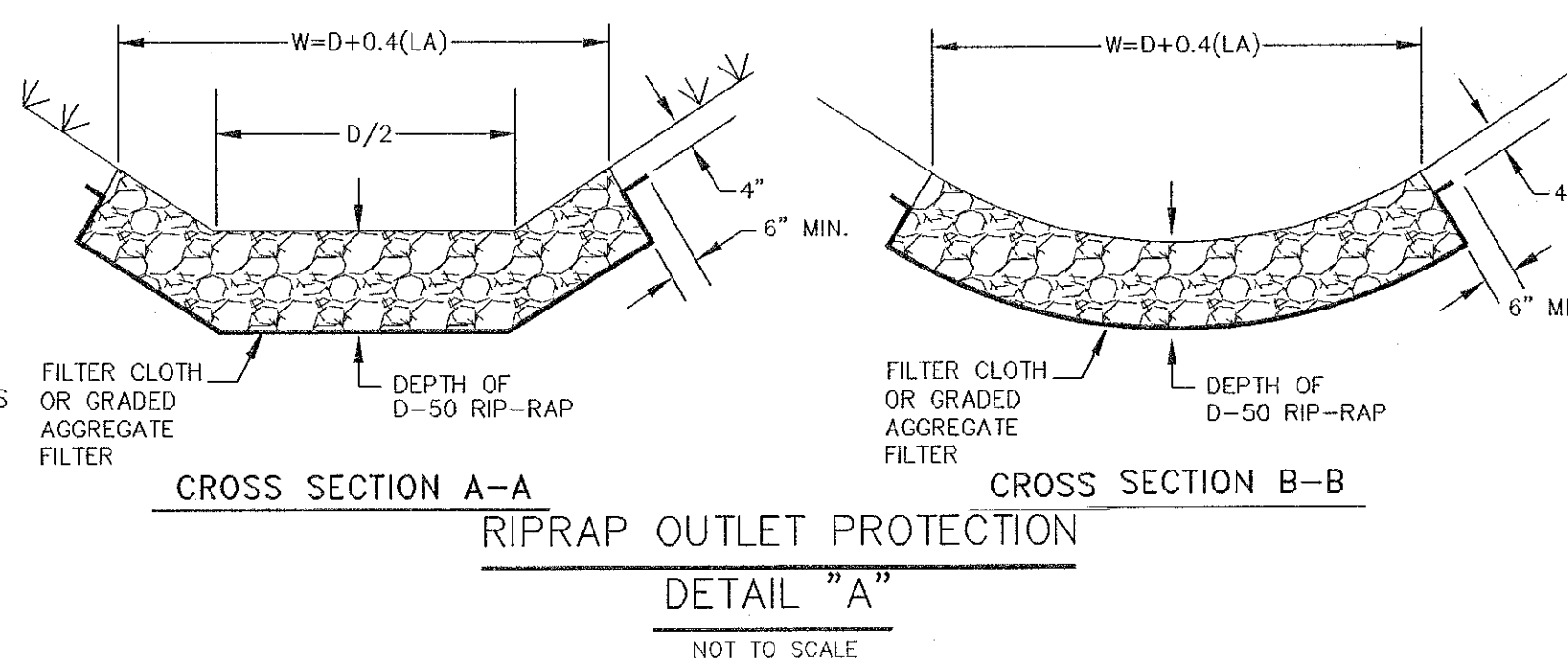
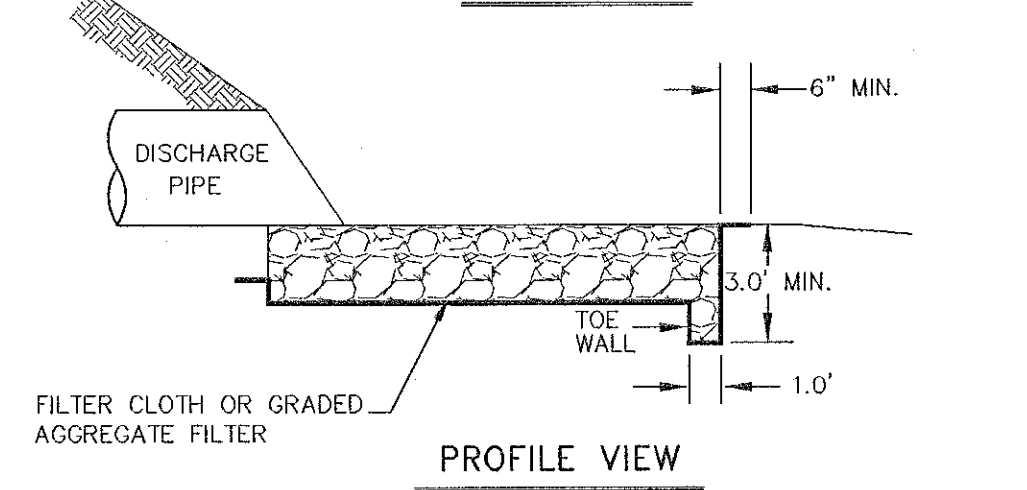
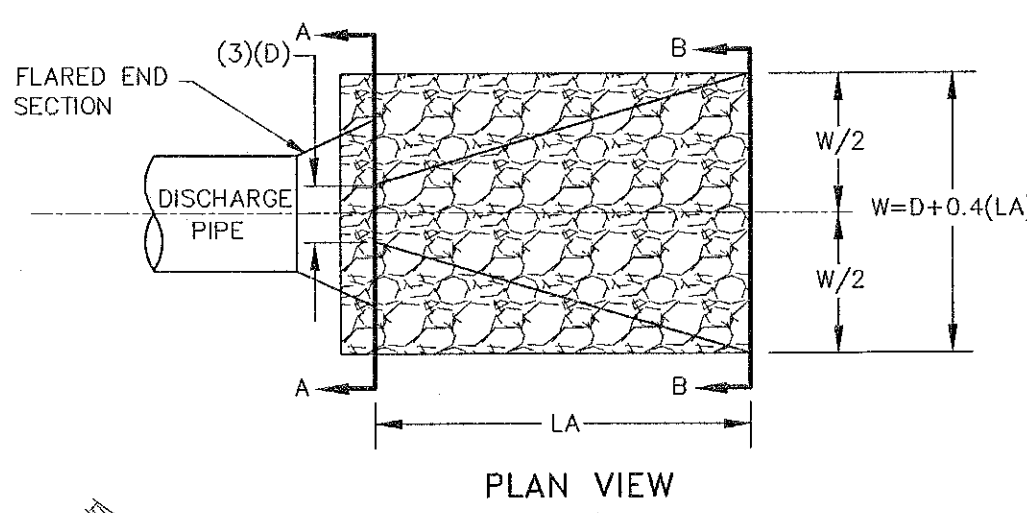
#### CONSTRUCTION SPECIFICATIONS:

- CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
- GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
- WEED HOLES SHALL BE PROTECTED BY GRAVEL.
- THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
- CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION SHALL BE MINIMIZED.
- UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEED HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING. MAXIMUM DRAINAGE AREA 1 ACRE



#### POND OUTLET WEIR & SWALE DETAILS

NOT TO SCALE



#### EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE NOTES:

- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS.
  - CONTRACTOR SHALL COMMENCE SITE CONSTRUCTION ACTIVITIES AS REQUIRED.
  - INSTALL SILT FENCING AS NEEDED AS CLEARING AND GRADING ACTIVITIES PROGRESS. UPON COMPLETION OF INITIAL ROUGH GRADING OF BUILDING AREAS, TEMPORARY SEEDING AND ESTABLISHMENT OF VEGETATIVE COVER SHALL OCCUR.
  - IMMEDIATELY FOLLOWING COMPLETION OR SUSPENSION OF CONSTRUCTION ACTIVITIES OR WITHIN 14 DAYS IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
  - PRIOR TO FINALIZING CONNECTION TO THE STORM SEWER SYSTEM, ALL CATCH BASINS AND DRAINAGE LINES SHALL BE CLEANED OF ALL SILT AND SEDIMENT.
  - ONCE ROAD SURFACE HAS BEEN STABILIZED, SILT FENCING SHALL BE INSTALLED ALONG ROADWAY TO PREVENT SEDIMENT FROM ENTERING THE CLOSED DRAINAGE NETWORK WITHIN THE ROADWAY.
  - CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THE REMOVAL.
- CONSTRUCTION SEQUENCE (APPLICABLE TO EACH PHASE)**
- ESTABLISH PERIMETER SILT FENCING, WETLAND BARRIERS, AND STABILIZED CONSTRUCTION ENTRANCES.
  - CONSTRUCT PAVED AND GRAVEL ACCESS ROAD TO DETENTION POND.
  - CONSTRUCT DETENTION POND, ESTABLISH VEGETATIVE COVER ONCE IT IS COMPLETED.
  - CONSTRUCT OUTLET STRUCTURE WITH THE NECESSARY COMPONENTS SO THE DETENTION POND CAN BE USED AS A TEMPORARY SEDIMENT BASIN DURING THE SITE CONSTRUCTION.
  - BEGIN ROUGH GRADING OF ROADWAY ALIGNMENTS, TAKING CARE TO ESTABLISH TEMPORARY SWALES AND PERMANENT SWALES WITH TEMPORARY CHECK DAMS TO DIVERT RUNOFF TO STORM SEWER; STABILIZE OUT AND FILL SLOPES, STABILIZE INTERNAL ROADWAY AREAS WITH SUBBASE COURSE AS NECESSARY.
  - INSTALL SEWER LINES, STORM DRAINAGE SYSTEM AND WATER LINES. INSTALL DROP INLET SEDIMENT TRAPS AND CHECK DAMS IN DRAINAGE FLOW LINES.
  - COMPLETE SUBGRADE EXCAVATION, CONSTRUCT BASE COURSE, STABILIZE WITH SUB ROADWAY. PERFORM THE RESURFACING OF EXISTING NORFOLK STREET.
  - COMPLETE GRADING IN BUILDING AREAS. STABILIZE GRADED AREAS WITH TEMPORARY SEEDING AND MULCHING. INSTALL SILT FENCING ALONG NEW ROADWAY EDGE UNTIL AREAS ARE STABILIZED.
  - INSTALL BITUMINOUS PAVEMENT FOR ALL NEW ROADWAYS.
  - CONTINUE INSPECTION AND MAINTENANCE OF SITE AND EROSION/SEDIMENT CONTROL DEVICES THROUGHOUT THE DURATION OF THE CONSTRUCTION.
  - REMOVE ALL SEDIMENT AND TEMPORARY SEDIMENT BASIN COMPONENTS FROM THE SEDIMENT BASIN.

#### EROSION CONTROL GENERAL NOTES:

- THIS PROJECT IS AUTHORIZED UNDER NYSDEC PERMIT GP-10-01.
- ANY CONTRACTOR INVOLVED IN EARTHWORK ACTIVITIES, INCLUDING BUT NOT LIMITED TO: CLEARING, GRADING AND TRENCHING, SHALL REVIEW ALL PERMIT CONDITIONS AND CERTIFY UNDERSTANDING OF THESE CONDITIONS. IN WRITING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT ALL EROSION CONTROLS DESCRIBED IN GP-10-01, AND IT IS NOT THE INTENT OF THESE DRAWINGS TO REPLACE OR DISSEMINATE THE PERMIT REQUIREMENTS. THE CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH THE PERMIT AT ALL TIMES.
- AT NO TIME, SHALL MORE THAN FIVE (5) ACRES REMAIN UNSTABILIZED. THE CONTRACTOR SHALL COORDINATE EARTHWORK STANDARDS AND IMPLEMENTATION OF SOIL STABILIZATION MEASURES TO ENSURE COMPLIANCE TO THIS PERMIT REQUIREMENT.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION AND EQUIPMENT ENTRANCE WHENEVER PRACTICABLE.
- DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF COMPLETION OR SUSPENSION OF GRADING OPERATIONS.
- A NOTICE OF INTENT (NOI) MUST BE FILED WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION FIVE (5) BUSINESS DAYS PRIOR TO CONSTRUCTION ACTIVITIES WHICH DISTURB MORE THAN ONE ACRE OF LAND AFFIRMING THAT A STORMWATER POLLUTION PREVENTION PLAN HAS BEEN PREPARED CONSISTENT WITH THE REQUIREMENTS INCLUDED IN THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES (GP-0-10-001, AUGUST 2010).

#### TEMPORARY EROSION AND SEDIMENT CONTROL NOTES:

- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE LATEST EDITION OF NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL. (also the BLUE BOOK) EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- IT IS THE INTENT OF THESE PLANS AND NOTES TO BE USED AS A GUIDE BY THE CONTRACTOR TO ENSURE THAT NO ERODED MATERIAL MIGRATES FROM THE SITE OR ENTERS ANY WATER COURSE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THIS GOAL IS MET, BY IMPLEMENTING THESE PLANS AND ANY ADDITIONAL MEANS THAT MAY BE NECESSARY. FURTHER MEASURES MAY BE REQUIRED BY THE CITY, VILLAGE, OR TOWN ENGINEER. WHILE MANY OF THE EROSION CONTROL DETAILS CONTAINED WITHIN THESE PLANS ARE TAKEN DIRECTLY FROM THE BLUE BOOK, THE CONTRACTOR SHOULD CONSIDER ANY OF THE DETAILS CONTAINED IN SECTION 7A OF THE BLUE BOOK AS ACCEPTABLE PRACTICE IN THE APPROPRIATE APPLICATION.
- THE DEVELOPER/CONTRACTOR OR HIS BUILDER SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL EVENT THROUGH THE ENTIRE DEVELOPMENT PROCESS. TO ASSURE PROPER FUNCTION, SILTATION BARRIERS SHALL BE MAINTAINED IN GOOD CONDITION AND REINFORCED, EXTENDED, REPAIRED, RE-SEEDING AND PROTECTED FROM FURTHER EROSION. ALL SEDIMENT ACCUMULATED SHALL BE REMOVED AND CONTAINED IN APPROPRIATE SPOIL AREAS. WATER SHALL BE APPLIED TO NEWLY SEEDING AREAS AS NEEDED UNTIL GRASS COVER IS WELL ESTABLISHED. DURING THESE PERIODIC INSPECTIONS, THE FOLLOWING ITEMS SHOULD BE PAID PARTICULAR ATTENTION: A. SILT FENCING SHALL BE INSPECTED FOR UNDERMINING AND DETEIORATION. B. SEEDING/MULCHED AREAS SHALL BE INSPECTED TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE REPAIRED AS NECESSARY.
- EROSION CONTROL DEVICES SHALL NOT BE REMOVED UNTIL THE CITY, VILLAGE OR TOWN ENGINEER HAS APPROVED FINAL STABILIZATION.
- SILT FENCE AND OTHER EROSION CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THESE DETAIL SHEETS AND SECTION 7A OF THE BLUE BOOK.
- PRIOR TO ANY CONSTRUCTION ACTIVITY, THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED.
- CONSTRUCTION TRAFFIC SHALL NOT CROSS STREAMS OR DITCHES EXCEPT AT SUITABLE CROSSING FACILITIES. EQUIPMENT SHALL NOT OPERATE, UNNECESSARILY, WITHIN WATERWAYS OR DRAINAGE DITCHES.
- EXISTING PAVEMENT AREAS SHALL BE CLEANED AT THE DIRECTION OF THE CITY, VILLAGE, OR TOWN ENGINEER.
- WATER TRUCKS SHALL BE USED TO MINIMIZE DUST POLLUTION ON SITE, AND ON ADJACENT ROADWAY AREAS AS DIRECTED BY THE CITY, VILLAGE, OR TOWN ENGINEER.
- ANY WATER PUMPED AS A RESULT OF DEWATERING ACTIVITIES SHALL BE PUMPED INTO A DEWATERING PIT.
- ALL AREAS DISTURBED IN THE CONSTRUCTION PROCESS SHALL BE STABILIZED WITH SEED AND MULCH NO MORE THAN 14 DAYS AFTER THE COMPLETION OF WORK IN THAT AREA. IF WORK IN AN AREA IS SUSPENDED, IT SHALL NOT REMAIN UNSTABILIZED FOR MORE THAN 21 DAYS. IT MAY BE NECESSARY TO SEED AND MULCH SOME AREAS SEVERAL TIMES TO MEET THIS REQUIREMENT.
- IT IS RECOMMENDED THAT ALL EROSION CONTROL DEVICES BE PLACED FOR THE ENTIRE PHASE AS SHOWN ON THE EROSION CONTROL PLAN.
- STOCK PILES SHALL BE PROTECTED BY SILT FENCE PER GP-10-01. THESE DEVICES SHALL BE MAINTAINED IN GOOD CONDITION UNTIL SAID STOCK PILES ARE REMOVED AND STOCK-PLING AREAS ARE PERMANENTLY STABILIZED.
- STOCK PILES SHALL BE SEEDDED UPON SUSPENSION OF WORK OR IF MATERIAL IS NOT TO BE USED WITHIN 14 DAYS, IN ACCORDANCE WITH GP-10-01.
- IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM OR OTHER SURFACE WATER BODY.
- SILT FENCING SHALL BE INSTALLED AT THE PERIMETER OF ALL SLOPES TO BE GRADED, PRIOR TO GRADING OPERATIONS.
- CLEARING OPERATIONS SHALL BE LIMITED TO ACTIVE WORK AREAS.
- CARE SHALL BE TAKEN TO PRESERVE AS MUCH EXISTING VEGETATION AS POSSIBLE AND HEALTHY TREES OF DESIRABLE SPECIES SHALL BE PROTECTED.
- WHEN RUNOFF IS COLLECTED AND FLOW IS CONCENTRATED IN A SWALE OR DRAINAGE DITCH, THEN CHECK DAMS SHALL BE INSTALLED TO REDUCE VELOCITY UNTIL THE SWALE AND THE AREA DRAINING TO THE SWALE ARE STABILIZED. SEDIMENT SHALL BE REMOVED FROM THE DAM AS NEEDED TO ALLOW THE CHANNEL TO DRAIN THROUGH THE DAM AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM.
- TEMPORARY EROSION CONTROLS SHALL BE LEFT IN PLACE UNTIL FINAL STABILIZATION HAS BEEN DETERMINED BY A QUALIFIED PROFESSIONAL. TEMPORARY MEASURES MAY THEN BE REMOVED AND ANY PERMANENT MEASURES MUST BE FUNCTIONAL.

PLANNING BOARD  
TOWN OF BETHLEHEM  
ALBANY, NY 12209  
By direction of the Chairman  
These drawings are hereby approved.  
Signature of Chairman  
for date and signature.

TOWN OF BETHLEHEM, NEW YORK  
PLANNING DEPT. ORIGINAL  
- SCANNED -

OWNER/APPLICANT:  
THOMAS PAONESSA, TP BUILDERS  
31 PINE STREET  
ALBANY, NY 12234

TOWN OF BETHLEHEM PLANNING BOARD APPROVAL

**EROSION & SEDIMENT CONTROL DETAILS**

THE GROVE  
ANDREW COURT, PINE STREET & GROVE PLACE  
TOWN OF BETHLEHEM  
COUNTY OF ALBANY, STATE OF NEW YORK  
DRAWN BY: TPA  
CHECKED BY: TPA  
DATE: NOVEMBER 18, 2009

SCALE: N.T.S.  
SHEET 7 OF 10

ingalls & associates LLP  
ingalls & associates LLP  
engineering, environmental, surveying  
2303 GULDERLAND AVENUE  
SCHENECTADY, NY 12306  
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