

EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCING:

- EXCAVATION & ROADWAY CONSTRUCTION:
 1. ESTABLISH PERIMETER SILT FENCING, WETLAND BARRIERS, AND STABILIZED CONSTRUCTION ENTRANCES FOR THE PHASE TO BE DISTURBED.
 2. CONSTRUCT HAUL ROADS AND ACCESS ROADS TO DETENTION PONDS.
 3. CONSTRUCT DETENTION PONDS.
 4. CONSTRUCT OUTLET STRUCTURE WITHIN THE SEDIMENT TRAP OR DETENTION POND TO ALLOW FUNCTIONALITY AS A TEMPORARY SEDIMENT BASIN DURING SITE CONSTRUCTION.
 5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TRIBUTARY AREAS.
 6. BEGIN ROUGH GRADING OF ROADWAY ALIGNMENTS, TAKING CARE TO ESTABLISH ANY SWALES WITH TEMPORARY CHECK DAMS TO DIVERT RUNOFF TO STORM SEWER; STABILIZE CUT AND FILL SLOPES, STABILIZE INTERNAL ROADWAY AREAS WITH SUBBASE COURSE AS NEEDED.
 7. INSTALL SEDIMENT LINES, STORM DRAINAGE SYSTEM AND WATER LINES. INSTALL DROP INLET SEDIMENT TRAPS AND CHECK DAMS IN DRAINAGE FLOW LINES.
 8. COMPLETE SUBGRADE EXCAVATION, CONSTRUCT BASE COURSE, STABILIZE WITH SUB ROADWAY.
 9. INSTALL ADDITIONAL SILT FENCING AS NEEDED FOR CLEARING AND GRADING ACTIVITIES PROGRESS.
 10. CLEAN OUT SEDIMENT TRAP AND RESPECT TO FINAL DETENTION POND OR BIO FILTER CONFIGURATION. INSTALL OUTLET CONTROL STRUCTURE IF APPLICABLE AND FILTER MEDIA IN THE BIOFILTER AND PROTECT WITH PERIMETER SILT FENCE IF THESE ARE STILL ACTIVE DISTURBED AREAS DRAINING TO THE SYSTEM.
 11. CONSTRUCT THE WETLAND MITIGATION AREA.
 12. UPON COMPLETION OF RIGHT OF WAY GRADING, TEMPORARY SEEDING AND ESTABLISHMENT OF VEGETATIVE COVER SHALL OCCUR.
 13. INSTALL BITUMINOUS PAVEMENT FOR ALL NEW ROADWAYS.
 14. PRIOR TO FINISHING CONNECTION TO THE STORM SEWER SYSTEM, ALL CATCH BASINS AND DRAINAGE LINES SHALL BE CLEANED OF ALL SILT AND SEDIMENT.
 15. CONTRACTOR SHALL IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON ALL DISTURBED AREAS. ONCE FINAL STABILIZATION IS ACHIEVED REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
 16. REMOVE ALL SEDIMENT AND TEMPORARY SEDIMENT BASIN COMPONENTS FROM THE SEDIMENT BASIN.
 17. CONDUCT MAINTENANCE OF ROADWAY, EROSION/SEDIMENT CONTROL DEVICES AND POST-CONSTRUCTION MANAGEMENT PRACTICES THROUGHOUT THE DURATION OF THE CONSTRUCTION.

- INDIVIDUAL LOT CONSTRUCTION:
 1. SILT FENCING SHALL BE INSTALLED ALONG ROADWAY TO PREVENT SEDIMENT FROM ENTERING THE CLOSED DRAINAGE NETWORK WITHIN THE ROADWAY.
 2. INSTALL STABILIZED CONSTRUCTION ENTRANCE PRIOR TO ANY LOT DISTURBANCE.
 3. COMPLETE EXCAVATION, GRADING IN BUILDING AREA AND CONSTRUCT PROPERTY LINE SWALES.
 4. STABILIZE GRADED AREAS AND SWALES WITH SEED AND MULCH INCLUDING EROSION MATTING AND TEMPORARY CHECK DAMS AS NECESSARY TO PREVENT EROSION.
 5. CONTINUE INSPECTION AND MAINTENANCE OF THE INDIVIDUAL LOT UNTIL FINAL STABILIZATION IS ACHIEVED.

EROSION CONTROL GENERAL NOTES:

1. THIS PROJECT IS AUTHORIZED UNDER NYSDCEO PERMIT GP-0-15-002.
 2. 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 ENSURE ALL EROSION CONTROLS DESCRIBED IN GP-0-15-002 ARE IN PLACE AND NOT THE INVESTIGATION OF THESE SPONSORS TO REPLACE OR DISMANTLE THE PERMIT REQUIREMENTS. THE CONTRACTOR SHALL REMAIN IN COMPLIANCE WITH THE PERMIT AT ALL TIMES.
 3. AT NO TIME SHALL MORE THAN FIVE (5) ACRES REMAIN UNSTABILIZED. THE CONTRACTOR SHALL COORDINATE EARTHWORK ACTIVITIES AND IMPLEMENTATION OF SOIL STABILIZATION MEASURES TO ENSURE COMPLIANCE TO THIS PERMIT REQUIREMENT.
 4. THE CONTRACTOR SHALL MAINTAIN A CLEAN CONSTRUCTION AND EQUIPMENT ENTRANCE WHENEVER PRACTICABLE.
 5. DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF COMPLETION OR SUSPENSION OF GRADING OPERATIONS.

6. A NOTICE OF INTENT (NOI) MUST BE FILED WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION FIVE (5) BUSINESS DAYS PRIOR TO CONSTRUCTION WHICH DISCLOSES MORE THAN ONE ACRE OF LAND AND AFFECTS THE STORMWATER POLLUTION PREVENTION PLAN. THE NOI MUST BE PREPARED IN ACCORDANCE WITH REQUIREMENTS INCLUDED IN THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES (GP-0-15-002).

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE LATEST EDITION OF NEW YORK STATE EDITION OF THE "BLUE BOOK" EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.

2. IT IS THE INTENT OF THESE PLANS AND NOTES TO BE USED AS A GUIDE BY THE CONTRACTOR TO ENSURE THAT ALL 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 DULY PLANNED AND CONDUCTED CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOT BE HELD LIABLE FOR ANY DAMAGE TO 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 ALL OF THE DETAILS CONTAINED IN SECTION 7A OF THE BLUE BOOK AS ACCORDING TO THE CONTRACTOR'S OWN JUDGEMENT.

3. THE BACHELOR 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, REPAVED, RE-SEDED, AND PROTECTED FROM FURTHER EROSION. ALL SEEDED AREAS SHALL BE MAINTAINED IN GOOD CONDITION AND REINFORCED, REPAVED, RE-SEDED, AND PROTECTED FROM FURTHER EROSION. NEW DISTURBED AREAS AS NEEDED UNTIL GRASS COVER IS WELL ESTABLISHED DURING THESE PERIODIC INSPECTIONS. THE FOLLOWING ITEMS SHOULD BE PAID PARTICULAR ATTENTION: EROSION CONTROL SHOULD BE MAINTAINED ON ALL SLOPES, WHETHER GRADED OR NOT. SEEDED/MULCHED AREAS SHALL BE INSPECTED TO SEE THAT A GOOD STATE IS MAINTAINED. AREAS SHALL BE REPAVED AS NECESSARY.

4. EROSION CONTROL DEVICES SHALL NOT BE REMOVED UNTIL THE CITY, VILLAGE OR TOWN ENGINEER HAS APPROVED FINAL STABILIZATION.

5. 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.

6. PRIOR TO ANY CONSTRUCTION ACTIVITY THE STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED.

7. CONSTRUCTION TRAFFIC SHALL NOT CROSS STREAMS OR DITCHES EXCEPT AT SUITABLE CROSSING FACILITIES. EQUIPMENT SHALL NOT OPERATE UNNECESSARILY, WITHIN WATERWAYS OR DRAINAGE DITCHES.

8. EXISTING PAVEMENT AREAS SHALL BE CLEANED AT THE DIRECTION OF THE CITY, VILLAGE, OR TOWN ENGINEER.

9. WATER TRENCHES SHALL BE USED TO MINIMIZE DUST POLLUTION ON SITE, AND ON ADJACENT ROADWAY AREAS AS DIRECTED BY THE CITY, VILLAGE, OR TOWN ENGINEER.

10. ANY WATER PUMPED AS A RESULT OF Dewatering ACTIVITIES SHALL BE PUMPED INTO A Dewatering PIT.

11. 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.

12. IT IS RECOMMENDED THAT ALL EROSION CONTROL DEVICES BE PLACED FOR THE ENTIRE PHASE AS SHOWN ON THE EROSION CONTROL PLAN.

13. STOCK PILES SHALL BE PROTECTED BY SILT FENCE PER GP-0-15-002. THESE DEVICES SHALL BE MAINTAINED IN GOOD CONDITION UNTIL STOCK PILES ARE REMOVED AND STOCK PILING AREAS ARE PERMANENTLY STABILIZED.

14. STOCK PILES SHALL BE SEED UPON SUSPENSION OF WORK OR IF MATERIAL IS NOT TO BE USED WITHIN 14 DAYS, IN ACCORDANCE WITH GP-0-15-002.

15. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM OR OTHER SURFACE WATER BODY.

16. SILT FENCING SHALL BE INSTALLED AT THE PERIMETER OF ALL SLOPES TO BE GRADED, PRIOR TO GRADED OPERATIONS.

17. CLEARING OPERATIONS SHALL BE LIMITED TO ACTIVE WORK AREAS.

18. CARE SHALL BE TAKEN TO PRESERVE AS MUCH EXISTING VEGETATION AS POSSIBLE AND HEALTHY TREES OF DESIRABLE SPECIES SHALL BE PROTECTED.

19. WHERE RUNOFF 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.

20. PHASING NOTES:

1. PHASING AREAS SHOWN SHALL BE A GUIDE TO LIMITING ACTIVE DISTURBANCE TO LESS THAN 5 ACRES TO THE MAXIMUM EXTENT PRACTICABLE.

2. HAUL ROADS AND ACCESS ROADS TO DETENTION PONDS SHALL BE CONSTRUCTED FIRST.

3. DETENTION PONDS AND SEDIMENT TRAPS IF APPLICABLE SHALL BE INSTALLED IMMEDIATELY THEREAFTER.

4. UPON COMPLETION OF POND EXCAVATION, TEMPORARY SEEDING AND ESTABLISHMENT OF VEGETATIVE COVER SHALL OCCUR.

5. COMPLETE SUBGRADE EXCAVATION AND STABILIZE ROADWAY AREA WITH BASE COURSE.

6. THE FULL PHASE 1 AREA INCLUDING ANY ASSOCIATED CUT-FILL DISTURBANCES SHALL BE STABILIZED IN PREPARATION FOR INDIVIDUAL LOT CONSTRUCTION.

7. DISTURBANCE FOR INDIVIDUAL LOT CONSTRUCTION SHALL NOT EXCEED GREATER THAN 5 ACRES AT ONE TIME FOR ALL ACTIVE LOTS.

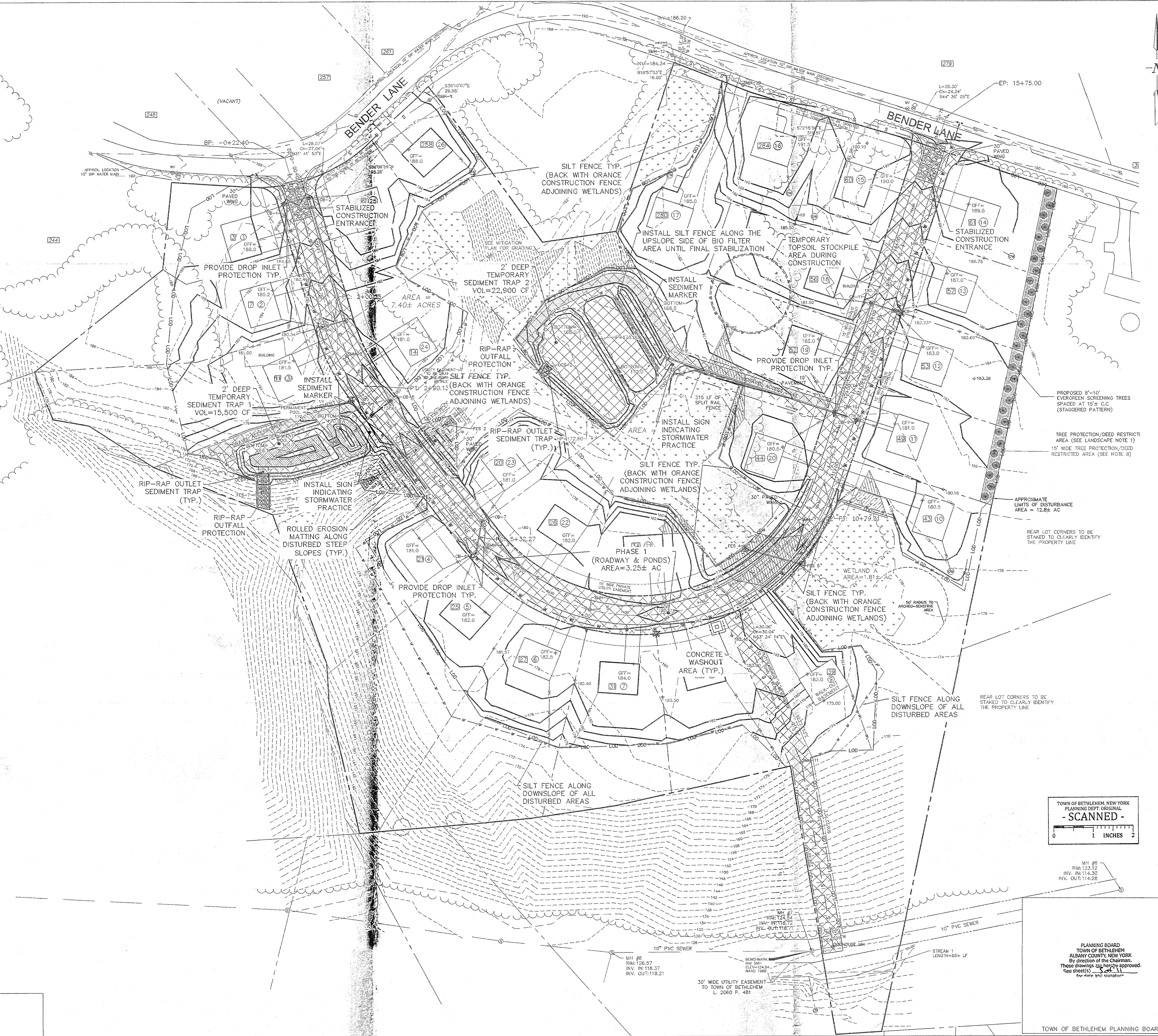
8. WEEKLY SWIFFI INSPECTION REPORTS SHALL INDICATE THE TOTAL NUMBER OF ACTIVE LOTS AND APPROXIMATE THE DISTURBANCE AREA. THE TYPICAL MAXIMUM IS APPROXIMATELY 5 ACTIVE LOTS AT ONE TIME DEPENDING ON AMOUNT OF INDIVIDUAL LOT DISTURBANCE.

LEGEND

EXISTING PROPERTY LINE	—
PROPOSED PROPERTY LINE	—
ADJACENT PROPERTY LINE	—
PROPOSED EASEMENT	—
EXISTING CONTOUR	—
EXISTING TREELINE	—
EXISTING HYDRANT	HYD
EXISTING UTILITY POLE	UTL POLE
EXISTING SANITARY MANHOLE	SM
EXISTING STORM SEWER	—
EXISTING WATERMAIN	W
WETLAND BOUNDARY	—
WETLAND IMPACT	—
PROPOSED CONTOUR	—
PROPOSED SANITARY MANHOLE	SM
PROPOSED SANITARY LATERAL	—
PROPOSED HYDRANT	HYD
PROPOSED WATER MAIN	W
PROPOSED CATCH BASIN	CB

ESBURY COUNTY DEPARTMENT OF HEALTH
 DIVISION OF ENVIRONMENTAL HEALTH SERVICES
 By direction of the Commissioner of Health, these
 plans are hereby approved. See first sheet for
 date and signature.

ALBANY COUNTY HEALTH DEPARTMENT APPROVAL



TOWN OF BETHLEHEM, NEW YORK
 PLANNING DEPT, ORIGINAL
 - SCANNED -
 0 1 INCHES 2

MH #6
 RM: 123.12
 INV. IN: 114.30
 INV. OUT: 114.28
 PLANNING BOARD
 TOWN OF BETHLEHEM
 ALBANY COUNTY, NEW YORK
 By direction of the Chairman.
 These drawings are hereby approved.
 See sheet(s) 3-5A for site and boundary.

TOWN OF BETHLEHEM PLANNING BOARD

ingalls

engineering, environmental, surveying

SCHEMECTY, NY 12301
 PHONE: (518) 296-7722
 FAX: (518) 299-2241

DRAWN BY: C.D.L.
 CHECKED BY: F.D.L.
 DRAWN DATE: 08/02/2017
 CHECKED DATE: 08/02/2017

SCALE: 1" = 50'

SHEET 6 OF 11

5	2/7/17	REVISIONS PER TOWN COMMENTS	JCH	UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW. ONLY COPIES MADE FROM THE ORIGINAL OF THIS DRAWING ARE VALID. THIS DRAWING IS FOR OFFICIAL USE ONLY. IT IS THE PROPERTY OF THE TOWN OF BETHLEHEM.
3	7/1/16	REVISIONS PER TOWN & TIDE COMMENTS	FJY	SIGNATURE SHALL BE CONSIDERED TO BE VALID ONLY IF COPIES.
2	6/27/16	REVISION PER TOWN COMMENT	FJY	Copyright 2016 - Ingalls & Associates, LLP - All rights reserved
1	2/12/16	REVISION PER TOWN & TIDE COMMENTS	CDL	ingalls & associates, LLP - N.Y.S. D.C. NO. 064993
NO.:		DATE:	REVISIONS	BY: