TOWN OF BETHLEHEM REQUIRED NOTES

DESIGN STANDARD REFERENCE:

THIS EROSION & SEDIMENT CONTROL PLAN WAS PREPARED IN ACCORDANCE WITH THE INFORMATION REQUIREMENTS CONTAINED IN THE NEW YORK STATE OF ENVIRONMENTAL CONSERVATION SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY PERMIT No.GP-02-01

NOTICE TO SITE WORK CONTRACTORS:

THE STORMWATER MANAGEMENT SYSTEM ASSOCIATED WITH THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH NYSDEC GP-02-01 REQUIREMENTS. NYSDEC GP-02-01 REQUIRES THAT AN EROSION AND SEDIMENT CONTROL PLAN AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ARE PREPARED PRIOR TO COMMENCEMENT OF SITE DISTURBANCE ASSOCIATED WITH THIS CONSTRUCTION PROJECT. THESE DOCUMENTS HAVE SPECIFIC REQUIREMENTS THAT MUST BE FOLLOWED BY THE CONTRACTORS ASSOCIATED WITH THIS PROJECT.

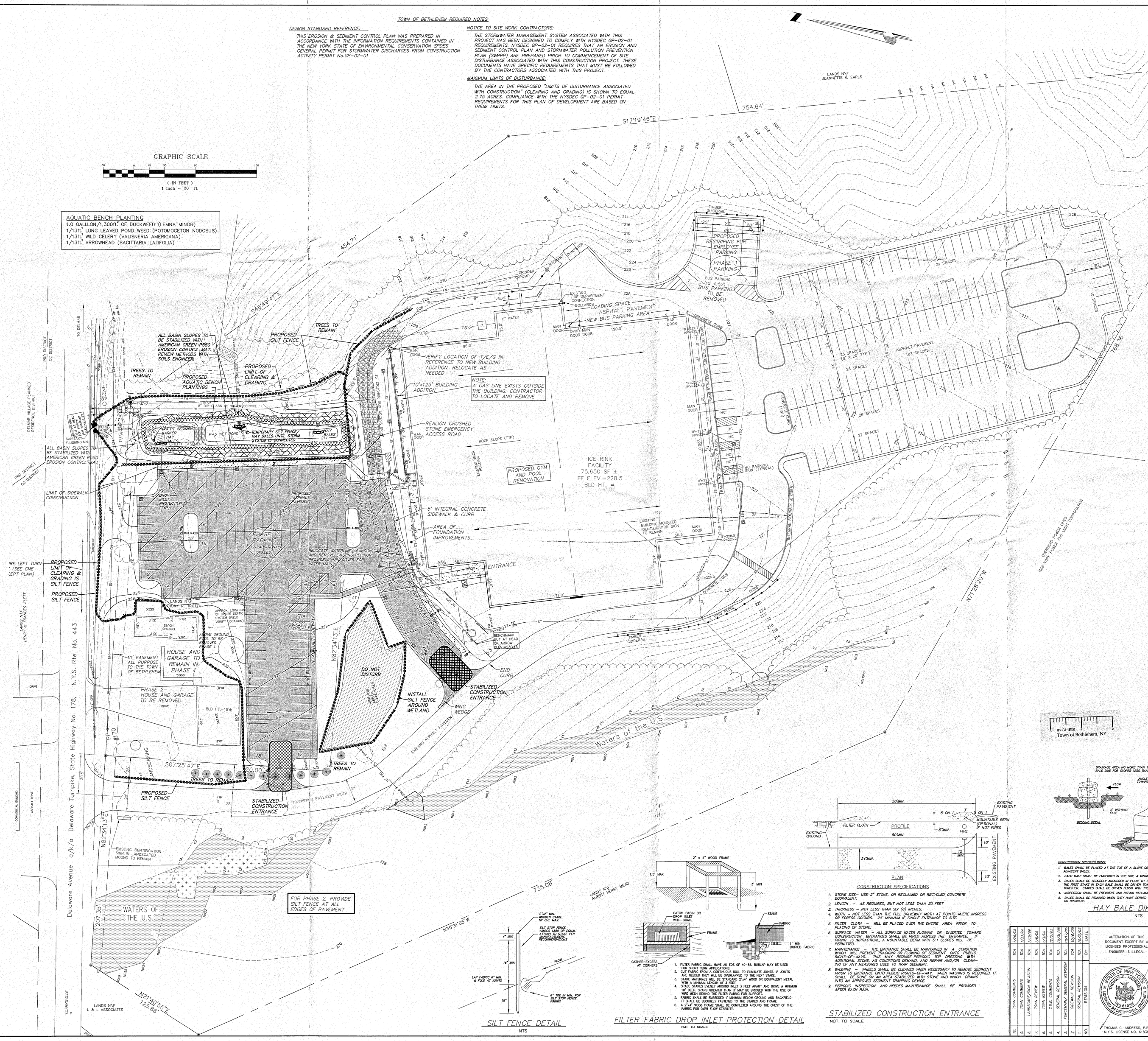
MAXIMUM LIMITS OF DISTURBANCE:

THE AREA IN THE PROPOSED "LIMITS OF DISTURBANCE ASSOCIATED WITH CONSTRUCTION" (CLEARING AND GRADING) IS SHOWN TO EQUAL 2.75 ACRES. COMPLIANCE WITH THE NYSDEC GP-02-01 PERMIT REQUIREMENTS FOR THIS PLAN OF DEVELOPMENT ARE BASED ON THESE LIMITS.

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

AQUATIC BENCH PLANTING
1.0 GALLON/1,300ft.² OF DUCKWEED (LEMNA MINOR)
1/13ft.² LONG LEAVED POND WEED (POTOMOGETON NODOSUS)
1/13ft.² WILD CELERY (VALISNERIA AMERICANA)
1/13ft.² ARROWHEAD (SAGITTARIA LATIFOLIA)



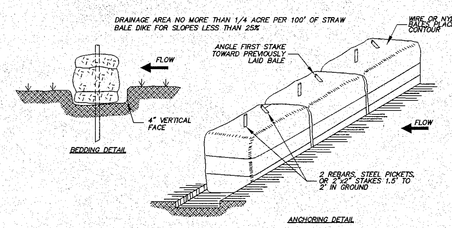
INCHES
Town of Bethlehem, NY

THE CONTRACTOR SHALL AS A MINIMUM IMPLEMENT THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES:

- CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL.
- INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS AND AS NEEDED DURING THE GENERAL COURSE OF WORK.
- PRIOR TO SITE DISTURBANCE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN-PLACE.
- TEMPORARY INSTALLATION OF STABILITY CONSTRUCTION PADS AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES WOULD ENTER ONTO PUBLIC STREETS.
- EXCAVATION WORK TO BE CARRIED OUT DURING PERIODS OF INCLEMENT WEATHER SHALL REQUIRE ADDITIONAL EROSION CONTROL MEASURES AS MAY BE NECESSARY BASED ON CONDITIONS.
- TEMPORARY INSTALLATION OF FILTER FABRIC IN CATCH BASIN GRATES UNTIL THE SITE HAS BEEN STABILIZED.
- STABILIZATION OF PROPOSED ASPHALT AREAS BY COMPACTION AND APPLICATION OF SUBBASE WITHIN TWO WEEKS AFTER UTILITES ARE INSTALLED.
- VEGETATIVE STABILIZATION OF DISTURBED AREAS INCLUDING R.O.W. AND EASEMENTS WITHIN TWO WEEKS OF FINAL GRADING.
- WEEKLY/MONTHLY INSPECTION OF EROSION AND SEDIMENT CONTROL MEASURES AND DOWNSTREAM PROPERTIES TO DETERMINE THEIR EFFECTIVENESS. IMPLEMENTATION OF ADDITIONAL MEASURES AS NECESSARY TO PROTECT ADJACENT AND DOWNSTREAM PROPERTIES AS DETERMINED BY THE DESIGN ENGINEER AND/OR INSPECTOR.
- INSPECTION PER THE N.O.I./S.W.P.P.P.

SOIL EROSION AND STABILIZATION:

1. PLANS SHOW TEMPORARY SOIL EROSION AND STABILIZATION MEASURES WHICH SHALL BE MAINTAINED UNTIL ALL AREAS ARE STABILIZED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO SEED AND MULCH (OR HYDROSEED). THE OWNER SHALL BE RESPONSIBLE TO PROVIDE AN ADEQUATE WATER SOURCE AND HOSES FOR GERMINATION OF THE SEED. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR WATERING UNLESS THE CONTRACT STATES SUCH.
3. SOIL EROSION CAN OCCUR AFTER EVERY RAINFALL UNTIL TURF IS ESTABLISHED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR EROSION AFTER EVERY RAINFALL. FAILURE TO REPAIR MINOR EROSION WILL RESULT IN MAJOR EROSION AND POSSIBLY PAVEMENT AND STRUCTURE FAILURE. THE ENGINEER SHALL NOT BE RESPONSIBLE IF EROSION OCCURS.
4. ADDITIONAL EROSION CONTROL METHODS INCLUDING SOIL STABILIZATION MATS, PLACEMENT OF STONE, PLACEMENT OF SOIL MAY BE REQUIRED DUE TO CLIMATIC CONDITIONS (EXCESS RAIN, ETC.) THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE EXTRA MEASURES AND IT SHALL NOT BE CONSIDERED AN OMISSION OR ERROR ON THE PLAN IF THESE ADDITIONAL MEASURES ARE NOT SPECIFIED INITIALLY.



CONSTRUCTION SPECIFICATIONS:

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

HAY BALE DIKE DETAIL
NTS

SILT FENCE DETAIL
NTS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1' MINIMUM BELOW GROUND AND BACKFIELD IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

FILTER FABRIC DROP INLET PROTECTION DETAIL
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 30 FEET
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - NOT LESS THAN THE FULL DRIVEWAY WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' MINIMUM IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. 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.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANING OF ANY MEASURES USED TO TRAP SEDIMENT.
8. WASHING - WHEELS SHALL BE CLEANED WHEN NECESSARY TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK
This Site Plan Approved.
Title: Chairman
SPR 10-04-02
Date 2-10-06

NO.	REVISION	BY	DATE
10	TOWN COMMENTS	TCA	1/26/06
9	TOWN COMMENTS	TCA	1/23/06
8	LANDSCAPE/SIGN REVISION	TCA	1/19/06
7	TOWN REVIEW	TCA	1/6/06
6	TOWN REVIEW	TCA	1/3/06
5	T.O.E. COMMENTS	TCA	12/29/05
4	GENERAL REVISION	TCA	10/25/05
3	FORCEMAIN/ GENERAL REVISION	TCA	10/17/05
2	SIDEWALK REVISION	TCA	10/6/05
1	GENERAL REVISION	TCA	10/3/05

ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL ENGINEER IS ILLEGAL

STATE OF NEW YORK · THOMAS C. ANDRESS · LICENSED PROFESSIONAL ENGINEER · LIC. NO. 61836

THOMAS C. ANDRESS, P.E.
N.Y.S. LICENSE NO. 61836

EROSION CONTROL PLAN
900 DELAWARE AVENUE
CAPITAL DISTRICT YMCA
BETHLEHEM BRANCH

TOWN OF BETHLEHEM | COUNTY OF ALBANY
STATE OF NEW YORK

ABD ENGINEERS & SURVEYORS
411 Union Street Schenectady, N.Y. 12305
518-377-0315 Fax.518-377-0379

DATE:	SCALE:	DWG.	SHEET OF
APRIL 2005	1"=30'	2184-PHASE1 REGRADE	3 4

Planning Approval
PhotoHTE_SPA18642_Plans