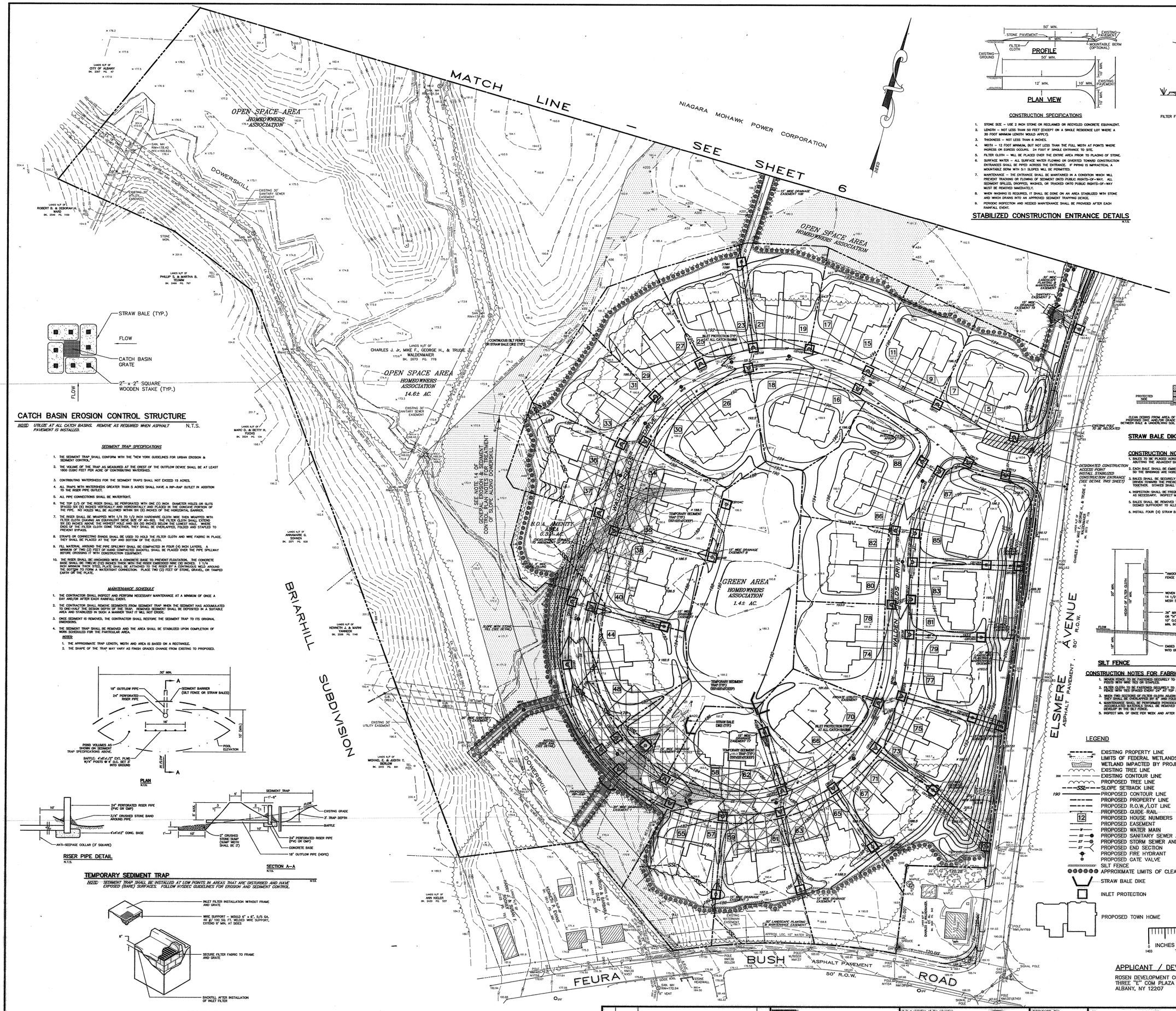


CATCH BASIN EROSION CONTROL STRUCTURE

NOTE: UTILIZE AT ALL CATCH BASINS. REMOVE AS REQUIRED WHEN ASPHALT PAVEMENT IS INSTALLED. N.T.S.

SEDIMENT TRAP SPECIFICATIONS

1. THE SEDIMENT TRAP SHALL CONFORM WITH THE "NEW YORK GUIDELINES FOR URBAN EROSION & SEDIMENT CONTROL".
2. THE VOLUME OF THE TRAP AS MEASURED AT THE CREST OF THE OUTFLOW DEVICE SHALL BE AT LEAST 1800 CUBIC FEET PER ACRE OF CONTRIBUTING WATERSHED.
3. CONTRIBUTING WATERSHEDS FOR THE SEDIMENT TRAPS SHALL NOT EXCEED 15 ACRES.
4. ALL TRAPS WITH WATERSHEDS GREATER THAN 5 ACRES SHALL HAVE A RIP-RAP OUTLET IN ADDITION TO THE RISER PIPE OUTLET.
5. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
6. THE TOP 2/3 OF THE RISER SHALL BE PERFORATED WITH ONE (1) INCH DIAMETER HOLES OR SLITS SPACED SIX (6) INCHES VERTICALLY AND HORIZONTALLY AND PLACED IN THE CONCAVE PORTION OF THE PIPE. NO HOLES WILL BE ALLOWED WITHIN SIX (6) INCHES OF THE HORIZONTAL BARRIER.
7. THE RISER SHALL BE WRAPPED WITH 1/4 TO 1/2 INCH HARDWARE CLOTH. WIRE THEN WRAPPED WITH FILTER CLOTH (HAVING AN EQUIVALENT SIEVE SIZE OF 40-80). THE FILTER CLOTH SHALL EXTEND SIX (6) INCHES ABOVE THE HIGHEST HOLE AND SIX (6) INCHES BELOW THE LOWEST HOLE. WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT BYPASS.
8. STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.
9. FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE COMPACTED IN FOUR (4) INCH LAYERS. A MINIMUM OF TWO (2) FEET OF HAND COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
10. THE RISER SHALL BE ANCHORED WITH A CONCRETE BASE TO PREVENT FLOATATION. THE CONCRETE SHALL EXTEND ONE (1) FOOT AROUND THE RISER AND BE ONE (1) FOOT THICK. ANTI-SEEP COLLARS OF TEN (10) INCH SQUARE 14 GAUGE STEEL PLATE SHALL BE ATTACHED TO THE RISER PIPE. ONE (1) INCH BY 12 INCH MINIMUM THICK STEEL PLATE SHALL BE ATTACHED TO THE RISER PIPE. ONE (1) INCH STONE WILL AROUND THE BOTTOM TO FORM A WATERTIGHT CONNECTION. PLACE TWO (2) FEET OF STONE, GRAVEL, OR TAMPED EARTH OR THE PLATE.

MAINTENANCE SCHEDULE

1. THE CONTRACTOR SHALL INSPECT AND PERFORM NECESSARY MAINTENANCE AT A MINIMUM OF ONCE A DAY AND/OR AFTER EACH RAINFALL EVENT.
2. THE CONTRACTOR SHALL REMOVE SEDIMENTS FROM SEDIMENT TRAP WHEN THE SEDIMENT HAS ACCUMULATED TO ONE (1) FOOT BELOW THE OUTFLOW DEVICE OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED IN SUCH A MANNER THAT IT WILL NOT ERODE.
3. ONCE SEDIMENT IS REMOVED, THE CONTRACTOR SHALL RESTORE THE SEDIMENT TRAP TO ITS ORIGINAL DIMENSIONS.
4. THE SEDIMENT TRAP SHALL BE REMOVED AND THE AREA SHALL BE STABILIZED UPON COMPLETION OF WORK SCHEDULED FOR THE PARTICULAR AREA.

NOTES:

1. THE APPROXIMATE TRAP LENGTH, WIDTH AND AREA IS BASED ON A RECTANGLE.
2. THE SHAPE OF THE TRAP MAY VARY AS FINISH GRADES CHANGE FROM EXISTING TO PROPOSED.

PLAN N.T.S.

RISER PIPE DETAIL N.T.S.

SECTION A–A N.T.S.

TEMPORARY SEDIMENT TRAP

NOTE: SEDIMENT TRAP SHALL BE INSTALLED AT LOW POINTS IN AREAS THAT ARE DISTURBED AND HAVE EXPOSED (BARE) SURFACES. FOLLOW NYSDEC GUIDELINES FOR EROSION AND SEDIMENT CONTROL. N.T.S.

INLET FILTER NOTES

1. CONTRACTOR TO INSPECT FILTER FABRIC AFTER EVERY RAINFALL EVENT AND PERFORM NECESSARY MAINTENANCE TO ENSURE PROPER FUNCTIONING.
2. CONTRACTOR TO REMOVE FILTER FABRIC JUST PRIOR TO PAVING.
3. CONTRACTOR SHALL CLEAN OUT ALL SUMPS OF ANY DEBRIS PRIOR TO OWNERS ACCEPTANCE OF THE WORK.

INLET FILTER

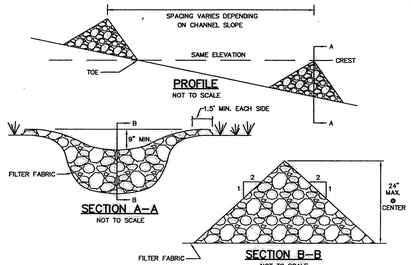
NOTE: USE AT ALL CATCH BASINS. N.T.S.

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2 INCH STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN 8 INCHES.
4. WIDTH – 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT 9' 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 RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. 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 RAINFALL EVENT.

STABILIZED CONSTRUCTION ENTRANCE DETAILS

N.T.S.

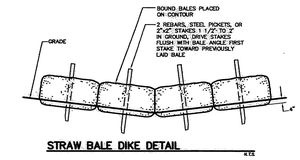


CONSTRUCTION NOTES FOR STONE CHECK DAMS:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN ON PLAN.
2. SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
4. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

STONE CHECK DAM DETAILS

NOTE: USE AT OUTLET OF ALL SEDIMENT TRAPS. N.T.S.



STRAW BALE DIKE DETAIL

N.T.S.

STRAW BALE DIKE

N.T.S.

CONSTRUCTION NOTES:

1. BALES TO BE PLACED ACROSS DRAINAGE SWALES 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 REBARS 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 OR REPLACEMENT SHALL BE MADE PROMPTLY AS NECESSARY. INSPECT MIN. OF ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT.
5. BALES SHALL BE REMOVED WHEN THE SITE HAS BEEN STABILIZED AND GRASS GROWTH DEEMED SUFFICIENT TO ALLOW STORMWATER FLOW.
6. INSTALL FOUR (4) STRAW BALES AROUND ALL CATCH BASINS.

EROSION CONTROL DETAILS

N.T.S.

GENERAL EROSION & SEDIMENT CONTROL PLAN NOTES:

1. LOCATIONS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
2. ALL PROPOSED EROSION CONTROLS SHALL BE INSTALLED PRIOR TO BEGINNING OF CONSTRUCTION. FINAL LOCATION & CONSTRUCTION SHALL BE REVIEWED BY THE ENGINEER.
3. STAKEOUT OF ALL PROPOSED EROSION CONTROLS SHALL BE DONE BY A NEW YORK STATE LICENSED PROFESSIONAL SURVEYOR.
4. REMOVE EROSION CONTROLS ONLY UNDER THE AUTHORIZATION OF THE ENGINEER.
5. CONTRACTOR MUST PROTECT ALL SURFACE WATERS FROM SILTATION DURING CONSTRUCTION WITH APPROPRIATE MEASURES INCLUDING, BUT NOT LIMITED TO PLACING STRAW BALES AND SILTATION FENCING AROUND WORK.
6. EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIRED. ADDITIONAL MEASURES MAY BE REQUIRED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER.
7. EROSION AND SEDIMENT METHODS SHALL COMPLY WITH "THE NEW YORK GUIDELINES FOR URBAN AND SEDIMENT CONTROL", LATEST EDITION.
8. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED PERIODICALLY AND AFTER EACH RAINFALL EVENT. THE CONTRACTOR SHALL REPAIR THE EROSION AND SEDIMENT CONTROL DEVICES AS NECESSARY AND AS DIRECTED BY THE ENGINEER.
9. ALL TEMPORARY EXPOSED FACES OF EARTH CUTS AND FILLS SHALL BE VEGETATED OR PROTECTED FROM EROSION IMMEDIATELY UPON COMPLETION OF EARTHWORK. PROVISIONS SHALL BE MADE IN ORDER TO MINIMIZE THE AREA TO BE DISTURBED AND PREVENTING WATER RUNOFF TO CONCENTRATE AND ERODE THE WORKED EARTH SLOPE.
10. UPON COMPLETION OF GRADING OPERATIONS THE WORKED AREAS SHALL BE STABILIZED BY THE FOLLOWING METHODS, DEPENDING UPON THE CLASSIFICATION OF THE AREA AS EITHER TO RECEIVE PERMANENT OR TEMPORARY SEEDING.

SEED BED PREPARATION:

IF AREAS ARE DEEMED AS REQUIRING TOPSOIL THAN APPLY TOPSOIL TO A UNIFORM MINIMUM DEPTH OF FOUR(4) INCHES. TOPSOIL SHALL BE FRIABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS, AND STONES, AND CONTAIN NO TOXIC MATERIALS. IF TOPSOIL IS DEEMED UNNECESSARY THAN PREPARE SEED BED BY SCARIFYING COMPACTED AREAS AND REMOVING DEBRIS, ROCKS AND STUMPS. SEEDBED SHALL RECEIVE THE FOLLOWING SOIL AMENDMENTS:

A) LIME TO A Ph OF 6.0
B) FERTILIZE WITH 600 LBS OF 5-10-10 OR EQUIVALENT PER ACRE (14 LBS./1000 SQ. FT)

THE SOIL AMENDMENTS SHALL BE WORKED INTO THE SEED BED WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT.

TEMPORARY SEEDING:

ANNUAL RYEGRASS SEED SHALL BE APPLIED AT A RATE OF 0.8 LBS PER 1000 SQUARE FEET. USE WINTER RYE IF SEEDING DURING OCTOBER/NOVEMBER.

PERMANENT SEEDING:

SEEDINGS SHALL CONSIST OF 1 LB PER 1000 SQUARE FEET OF SEED CONTAINING AT LEAST 50% FAST SPROUTING PERENNIAL RYE GRASS AND 10% PINK CLOVER OR ALFALFA.

THE SEED MIX SHALL BE SPREAD BY UTILIZING A CYCLONE SEEDER, DRILL, OR CULTIPACK SEEDER. SEED DEPTH SHALL BE FROM 1/4 TO 1/2 INCH DEEP. SEED MAY ALSO BE APPLIED BY APPROPRIATE HYDROSEEDING METHODS.

ALL SEEDED AREAS SHALL BE MULCHED WITH STRAW MULCH APPLIED AT RATE OF 2 TON/ACRE (90 LBS PER 1000 SQUARE FEET) AND ANCHORED WITH "TERRA-TACK" OR EQUAL.

11. IF STABILIZATION BY SEEDING CANNOT OCCUR DURING THE RECOMMENDED SEEDING PERIODS, TOPSOIL, FILL AND EXCAVATED MATERIALS AREAS SHALL BE TEMPORARILY STABILIZED WITH ANCHORED MULCH UNTIL SUCH TIME AS EFFECTIVE SEEDING CAN OCCUR.
12. STOCKPILE MATERIALS SHALL NOT BE LOCATED WITHIN 25 FEET OF ANY DITCH, STREAM, OR OTHER SURFACE WATER BODY.
13. IF CONSTRUCTION IS SUSPENDED, OR SECTIONS COMPLETED, AREAS SHALL BE SEEDED AND/OR MULCHED IMMEDIATELY.
14. SLOPES ADJACENT TO DOWERSKILL SHALL BE HYDROSEEDED UPON ACHIEVEMENT OF FINAL GRADE ELEVATIONS.

SILT FENCE

N.T.S.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP & MID-SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH JOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED PERIODICALLY AS NEEDED. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. INSPECT MIN. OF ONCE PER WEEK AND AFTER EVERY RAINFALL EVENT.

LEGEND

- EXISTING PROPERTY LINE
- LIMITS OF FEDERAL WETLANDS
- WETLAND IMPACTED BY PROJECT
- EXISTING TREE LINE
- 200 EXISTING CONTOUR LINE
- PROPOSED TREE LINE
- SSL SLOPE SETBACK LINE
- 190 PROPOSED CONTOUR LINE
- PROPOSED PROPERTY LINE
- PROPOSED R.O.W./LOT LINE
- 12 PROPOSED GUIDE-RAIL
- PROPOSED HOUSE NUMBERS
- PROPOSED EASEMENT
- W PROPOSED WATER MAIN
- SS PROPOSED SANITARY SEWER AND MANHOLE
- ST PROPOSED STORM SEWER AND CATCH BASIN
- ST PROPOSED END SECTION
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- SILT FENCE
- APPROXIMATE LIMITS OF CLEARING & GRADING
- STRAW BALE DIKE
- INLET PROTECTION
- PROPOSED TOWN HOME

INCHES 1 2 — 1403 TOWN OF BETHLEHEM 11-06

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Rev. no	Date	Description	By
E	04/25/03	REVISED PER TOWN COMMENTS & A.C.D.O.H. COMMENTS	J.P.P.
D	02/07/03	REVISED PER TOWN COMMENTS	D.E.O.
C	11/11/02	REVISED PER TOWN COMMENTS	D.E.O.
B	9/23/02	REVISED PER TOWN COMMENTS	D.E.O.
A	5/29/02	ISSUED FOR REVIEW	D.E.O.

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STATE OF NEW YORK — DOUGLAS C. OSTRANDER — 074627 — LICENSED PROFESSIONAL ENGINEER

06-06-03
Date

DESIGNED BY:	
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CHECKED BY:	N.C.
APPROVED BY:	L.T.S.
SCALE:	1" = 50'
DATE:	MAY 15, 2002
ISSUED:	

"WALDENMAIER" PLANNED RESIDENCE COMMUNITY
PLANNED RESIDENCE DISTRICT NO. 13
ELSMERE AVENUE & FEURA BUSH ROAD — TOWN OF BETHLEHEM
COUNTY OF ALBANY — STATE OF NEW YORK

EROSION CONTROL PLAN (1)

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