

**GRADING NOTES:**

1. THE TOTAL PROPOSED DISTURBANCE AREA IS APPROXIMATELY 3.8± ACRES AND THEREFORE THE SITE WILL REQUIRE COVERAGE UNDER THE NYS GENERAL PERMIT 0-15-002. SEE EROSION & SEDIMENT CONTROL PLAN FOR ADDITIONAL NOTES.
2. ALL EROSION CONTROLS IN ACCORDANCE WITH THE SEDIMENT & EROSION CONTROL SHEET OF THIS SET SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF EARTH DISTURBANCE AND/OR DEMOLITION ACTIVITIES.
3. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO DEMOLITION OR CONSTRUCTION.
4. ALL VEGETATION, TREES, STUMPS, FOUNDATIONS, ORGANIC SOILS, AND DEBRIS SHALL BE REMOVED FROM AREAS TO BE CONSTRUCTED.
5. CONSTRUCTION SITE SHALL BE KEPT IN A CLEAN AND ORDERLY MANOR WHENEVER POSSIBLE.
6. IMPACTS TO ADJACENT PROPERTIES SHALL BE AVOIDED TO THE MAXIMUM EXTENT.
7. THIS PLAN SHALL NOT BE USED TO ESTABLISH BEARING CAPACITIES FOR STRUCTURAL FOUNDATIONS. SOIL BEARING CAPACITIES SHALL BE DETERMINED BY BORING LOGS AND DETERMINATION BY A PROFESSIONAL GEOTECHNICAL ENGINEER.
8. A SLOPE STABILITY EVALUATION, DATED SEPTEMBER 4, 2015, WAS PREPARED BY DENTE ENGINEERING. ALL RECOMMENDATIONS PROVIDED IN THE EVALUATION SHALL BE FOLLOWED DURING CONSTRUCTION.
9. PRIOR TO PLACING FILLS OVER EXISTING SLOPES, THE AREAS SHOULD BE CLEARED AND STRIPPED OF TOPSOIL AND SURFICIAL ORGANIC MATTER.
10. THE FILLS SHOULD BE BENCHING INTO EXISTING SLOPES ON MAXIMUM THREE FEET HIGH STEPS.
11. FILL MATERIAL SHOULD BE COMPAKTED IN LIFTS TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR COMPAKCTION TEST (ASTM D1557).
12. THE SUB-GRADE BELOW THE BIOFILTER MATERIAL SHOULD BE COMPAKTED TO A MINIMUM 90% OF THE MAXIMUM DRY DENSITY.
13. THE BIOFILTER BASIN BERM SHOULD BE CONSTRUCTED OF CLAY COMPAKTED TO A MINIMUM 90% OF THE MAXIMUM DRY DENSITY.
14. FILL MATERIAL AND COMPAKCTION OF THE STEEP SLOPES AREA AND BIOFILTER SUBGRADE SHOULD BE REVIEWED AND CERTIFIED BY A PROFESSIONAL GEOTECHNICAL ENGINEER.

**SOIL INVESTIGATION LOG**

TEST PIT	SOIL PROFILE
TP 1	0-4" GRAVEL 4-12" LOAMY TOPSOIL 12-96" BR. VAR. LAYERED SILT/CLAY W/ FINE SAND PART. AND SILT SEAMS W/ BR/PNK/OR. MOTTLING NO GROUNDWATER ENCOUNTERED
TP 2	0-16" LOAMY TOPSOIL 16-90" BR./GR. VAR. LAYERED SILT/CLAY W/ FINE SAND PART. AND SILT SEAMS NO GROUNDWATER ENCOUNTERED
TP 3	0-3" LOAMY TOPSOIL 3-90" BR. VAR. LAYERED SILT/CLAY W/ FINE SAND PART. AND SILT SEAMS NO GROUNDWATER ENCOUNTERED
TP 4	0-4" LOAMY TOPSOIL 4-24" BR./D.BR. F-C SAND/SILT W/ COBBLE STONES, CONC. AND BRICK FRAGMENTS 24-84" BR./GR. VAR. LAYERED SILT/CLAY W/ FINE SAND PART. AND SILT SEAMS NO GROUNDWATER ENCOUNTERED
TP 5	0-4" LOAMY TOPSOIL 4-42" BR./GR. SILT, CLAY, SAND, AND GRAVEL W/ ASPHALT, WOOD, CONC., AND BRICK FRAGMENTS 42-90" BR./GR. VAR. LAYERED SILT/CLAY W/ FINE SAND PART. AND SILT SEAMS NO GROUNDWATER ENCOUNTERED
TP 6	0-6" LOAMY TOPSOIL 6-36" BR./GR. SILT, CLAY, SAND, AND GRAVEL W/ ASPHALT, BRANCHES, CONC., AND BRICK FRAGMENTS 36-48" D.GR. SILT W/ ORGANICS 48-78" BR./GR./OR. MOTTLED SILT AND FINE SAND NO GROUNDWATER ENCOUNTERED
TP 7	0-4" LOAMY TOPSOIL 4-12" D. GR. SILT W/ ORGANICS 12-84" BR./GR. VAR. LAYERED SILT/CLAY NO GROUNDWATER ENCOUNTERED
IT 1	30 MINUTE/INCH INFILTRATION RATE
IT 2	5 MINUTE/INCH INFILTRATION RATE

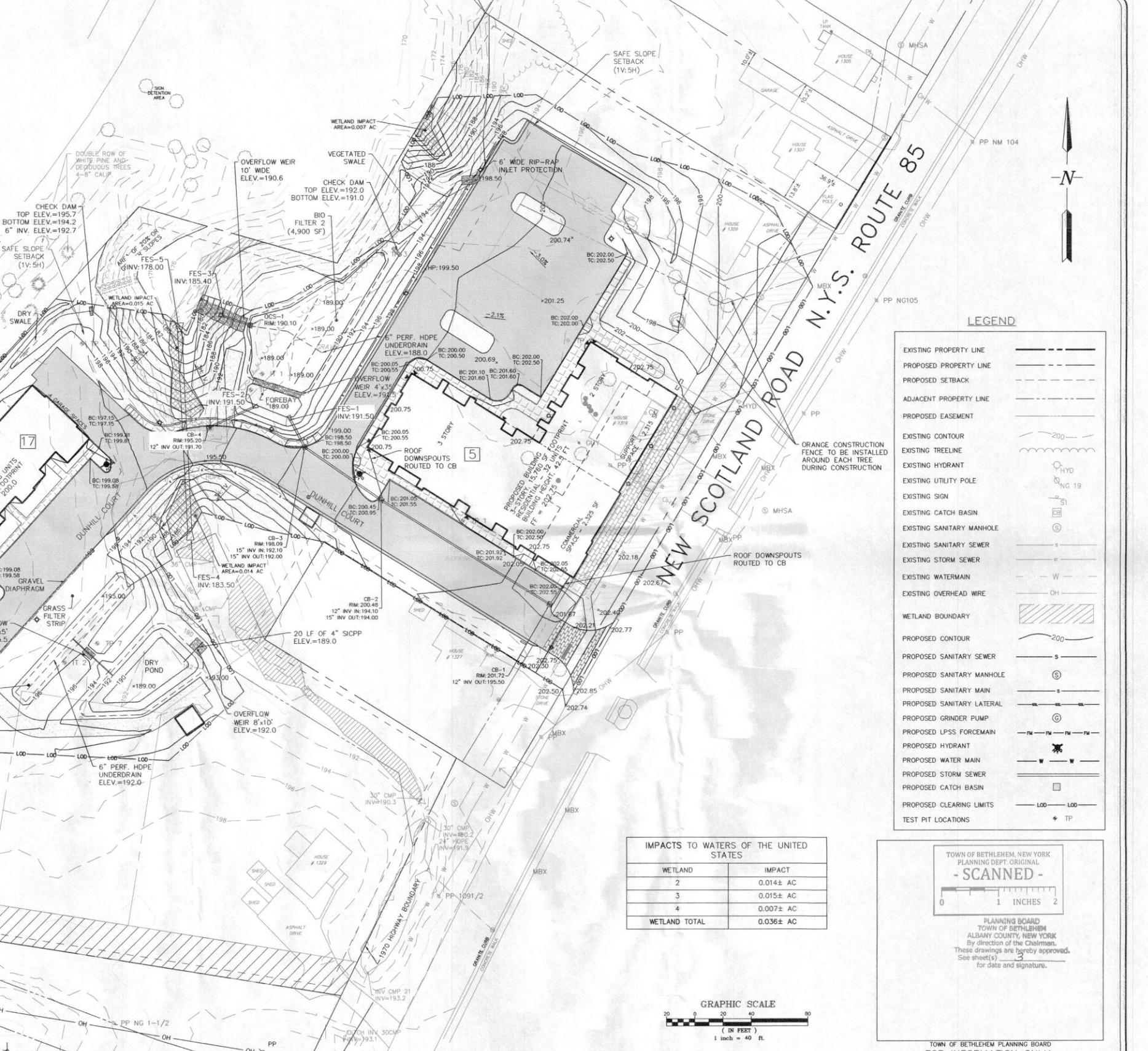
\*SOIL TEST PIT DATA PROVIDED BY DENTE ENGINEERING FROM AN AUGUST 2, 2013 SITE REVIEW.

\*\*INFILTRATION TESTS PERFORMED BY INGALLS & ASSOCIATES, LLP ON MAY 19, 2015.

**TOWN OF BETHLEHEM STANDARD NOTES:**

1. ALL CONSTRUCTION AND UTILITIES TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE TOWN OF BETHLEHEM STANDARD DETAILS AND SPECIFICATIONS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A SET OF THESE MATERIALS FOR USE ON THE JOB.
2. ALL ELEVATIONS SHOWN ARE ON USGS ELEVATION BASE.
3. ALL GRADING TO BE 3:1 (HORIZONTAL:VERTICAL) MAXIMUM SLOPE. GRADED LAWN/YARD AREAS SHALL HAVE A MINIMUM SLOPE OF 2%.
4. PRIOR TO ANY WORK IN THE STATE RIGHT-OF-WAY, A HIGHWAY WORK PERMIT FROM THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION IS REQUIRED.
5. PRIOR TO ANY WORK ON SANITARY SEWER AND WATER, THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FROM THE TOWN DEPARTMENT OF PUBLIC WORKS.
6. THE CONTRACTOR SHALL CALL THE U.F.P.O. (1-800-962-7962) TWO WORKING DAYS PRIOR TO ANY EXCAVATION TO HAVE UNDERGROUND UTILITIES LOCATED IN THE FIELD.
- 7) NO SUMP PUMP, ROOF DRAINS, CELLAR DRAINS, OR FOOTING DRAINS SHALL BE CONNECTED TO THE SANITARY SEWER SYSTEM.
- 8) ALL CONTROLLED FILL SHALL BE CERTIFIED BY A LICENSED SOILS ENGINEER, THAT PLACEMENT OF THE MATERIAL WAS DONE IN A MANNER SUITABLE FOR THE CONSTRUCTION OF THE ROAD AND THE INSTALLATION OF WATERMAIN, STORM SEWERS, AND SANITARY SEWERS. TO THIS END, NO FILL SHALL BE PLACED IN AREAS IDENTIFIED ON THESE PLANS AS CONTROLLED FILL AREAS UNTIL THE CERTIFYING SOILS ENGINEER HAS BEEN CONSULTED.
- 9) SOIL RESTORATION SHALL BE COMPLETED IN ALL AREAS OF CUT OR FILL. THESE AREAS SHALL RECEIVE AERATION AND AN ADDITIONAL 6 INCHES OF TOPSOIL.
- 10) SOIL RESTORATION SHALL BE COMPLETED IN ALL AREAS WHERE TOPSOIL IS STRIPPED. THIS SHALL INCLUDE THE REPLACEMENT OF A MINIMUM 6 INCHES OF TOPSOIL.
- 11) EXISTING WATER AND SEWER CONNECTIONS OF THE HOUSES BEING DEMOLISHED MUST BE REMOVED IN ACCORDANCE WITH BETHLEHEM DPW REQUIREMENTS.

- 12) THE SUB-GRADE BELOW THE BIOFILTER MATERIAL SHOULD BE COMPAKTED TO A MINIMUM 90% OF THE MAXIMUM DRY DENSITY.
13. THE BIOFILTER BASIN BERM SHOULD BE CONSTRUCTED OF CLAY COMPAKTED TO A MINIMUM 90% OF THE MAXIMUM DRY DENSITY.
14. FILL MATERIAL AND COMPAKCTION OF THE STEEP SLOPES AREA AND BIOFILTER SUBGRADE SHOULD BE REVIEWED AND CERTIFIED BY A PROFESSIONAL GEOTECHNICAL ENGINEER.



IMPACTS TO WATERS OF THE UNITED STATES	
WETLAND	IMPACT
2	0.014± AC
3	0.015± AC
4	0.007± AC
<b>WETLAND TOTAL</b>	<b>0.036± AC</b>

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

PLANNING BOARD  
TOWN OF BETHLEHEM  
ALBANY COUNTY, NEW YORK  
By resolution of the Chairman.  
These drawings are hereby approved.  
See sheet(s) **3** for date and signature.

TOWN OF BETHLEHEM PLANNING BOARD  
FOR INFORMATION ONLY  
NOT FOR CONSTRUCTION

ALBANY COUNTY DEPARTMENT OF HEALTH  
DIVISION OF ENVIRONMENTAL HEALTH SERVICES

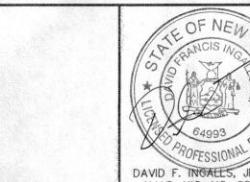
By direction of the Commissioner of Health, these  
plans are hereby approved. See first sheet for  
date and signature.

ALBANY COUNTY DEPARTMENT OF HEALTH

#15 HAMLET COURT  
RESIDENTIAL C-8 UNITS  
2 STORY  
FRAME AND MASONRY BUILDING  
ON CONCRETE FOUNDATION

NOTE: 48 HOURS PRIOR TO ANY CONSTRUCTION  
ACTIVITIES, THE CONTRACTOR SHALL CONTACT  
DIG SAFELY NEW YORK TO LOCATE ALL  
UNDERGROUND UTILITIES. 1-800-962-7962

5	11/12/15	REVISED TO FINAL PLAN SET	CDL	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 BEARING AN ORIGINAL INKED OR EMBOSSED SEAL AND SIGNATURE SHALL BE CONSIDERED TO BE VALID TRUE COPIES.
4	10/13/15	REVISED PER TOWN COMMENTS	CDL	
3	9/8/15	REVISED PER TOWN COMMENTS & GEOTECH REVIEW	CDL	
2	5/21/15	REVISED PER TOWN & TDE COMMENTS	CDL	
1	3/2/15	REVISION PER MEETING WITH TOWN & TDE	CDL	© Copyright 2015 - Ingalls & Associates, LLP - All rights reserved
NO. DATE:		REVISIONS	BY:	DAVID F. INGALLS, JR., P.E. N.Y.S. NIC. NO. 064993



**ingalls**  
ingalls & associates, LLP  
engineering, environmental, surveying

TOWN OF BETHLEHEM  
WINDSOR DEVELOPMENT GROUP, INC.  
1319 NEW SCOTLAND ROAD  
STATE OF NEW YORK  
COUNTY OF ALBANY  
DATE: JANUARY 23, 2015  
DRAWN BY: M.S.H.  
CADD FILE: 13076 LAYOUT  
SCALE: 1" = 40'  
SHEET 4 OF 14