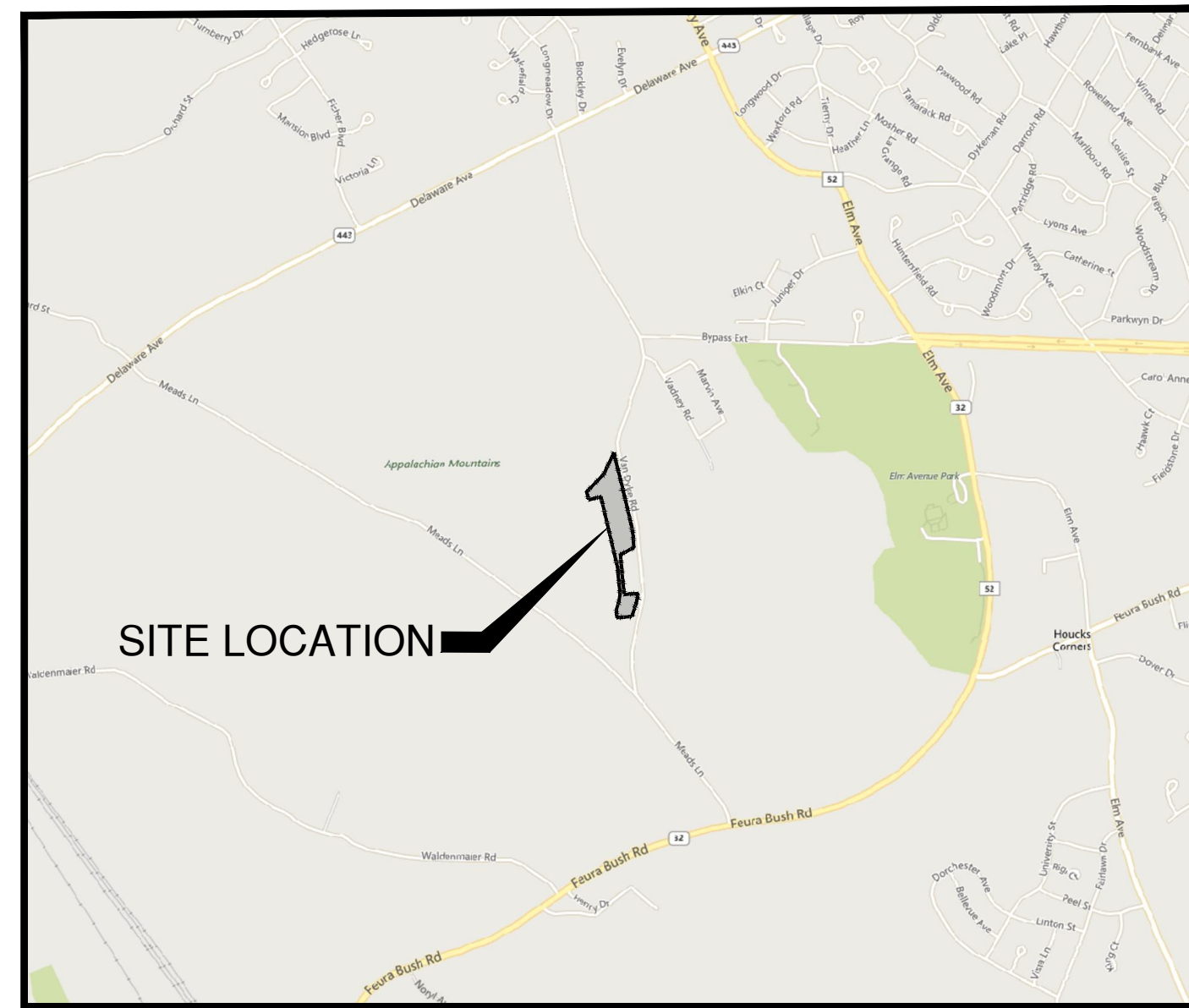


THE RESIDENCES AT VAN DYKE RESIDENTIAL SUBDIVISION

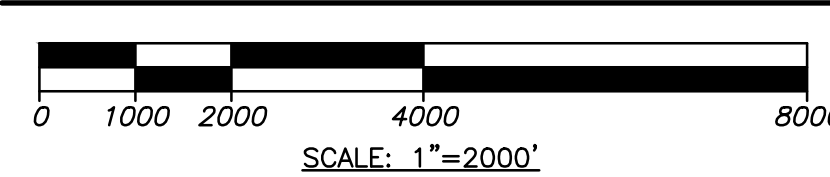
TOWN OF BETHLEHEM * ALBANY COUNTY * NEW YORK

GENERAL NOTES:

- ENGINEERING DRAWINGS BASED ON A BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY STANTEC CONSULTING SERVICES, INC. ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY OF LANDS NOW OR FORMERLY OF RICHARD I. LEONARD, BARBARA J. CARNER, WILLIAM K. LEONARD & LINDA MAE LEONARD", DATED JUNE 2006 AND PARTIAL UPDATES BY BREWER ENGINEERING ASSOCIATES, PERFORMED OCTOBER 2016.
- ALL TRAFFIC SIGNAGE FOR THE PROPOSED DEVELOPMENT SHALL CONFORM TO THE CURRENT VERSIONS OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE NEW YORK STATE SUPPLEMENTAL.
- ALL RIP-RAP STRUCTURES SHOWN SHALL BE CONSTRUCTED OF 6" D-50 STONE FILLING (UNLESS NOTED OTHERWISE).
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR URBAN EROSION AND SEDIMENT CONTROL AND IMPLEMENTED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.
- ALL DISTURBED AREAS TO RECEIVE TOPSOIL, SEED, FERTILIZER AND MULCH TO ESTABLISH A PERMANENT STAND OF GRASS.
- SIZE AND LOCATION OF UNDERGROUND UTILITIES ARE SUBJECT TO VERIFICATION BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
- PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFELY N.Y. OR 811 FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO THE START OF EXCAVATION.
- ALL KNOWN UTILITIES THAT EXIST ON OR ADJACENT TO THE PROJECT SITE HAVE BEEN SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT AND PRESERVE EXISTING UTILITIES.
- ALL UTILITIES DAMAGED OR DISTURBED BY THE WORK OF THIS CONTRACT SHALL BE REPLACED IN KIND BY THE CONTRACTOR.
- CONTRACTOR SHALL OBTAIN THE REQUIRED PERMITS FOR WORK WITHIN PUBLIC RIGHTS-OF-WAY AS REQUIRED BY THE MUNICIPALITY AND ALL PERMITS REQUIRED FOR UTILITY WORK ON-SITE FROM THE TOWN.
- CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK ON-SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THERE SHALL BE NO CHANGES ON THESE PLANS IN ADVANCE OF, OR CONSTRUCTION WITHOUT PRIOR APPROVAL OF THE DESIGN ENGINEER, THE OWNER AND THE MUNICIPALITY.
- ALL CONSTRUCTION SHALL CONFORM TO GENERALLY ACCEPTED CONSTRUCTION STANDARDS OR A.O.B.E.
- THE CONTRACTOR SHALL COMPLY WITH CONSTRUCTION INSPECTION REQUIREMENTS OF ALL AGENCIES, AND PHASE WORK ACCORDINGLY.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- FIELD ADJUSTMENT MUST BE REVIEWED BY A REPRESENTATIVE OF LANSING ENGINEERING PRIOR TO INSTALLATION.
- PROTECT NEWLY GRADED WORK AREAS FROM TRAFFIC AND EROSION, AND KEEP THEM FREE FROM TRASH AND DEBRIS UNTIL PHYSICAL COMPLETION OF WORK.
- CONTRACTORS OPERATIONS ON SITE WHICH SHALL INCLUDE BUT NOT BE LIMITED TO DUST CONTROL, MATERIAL HAULING, FIRE PROTECTION, EROSION CONTROL, ETC. SHALL BE CONDUCTED IN ACCORDANCE WITH TOWN OF BETHLEHEM REQUIREMENTS.
- LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF WORK; IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING EARTHWORK OPERATIONS.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN OF BETHLEHEM SUBDIVISION REGULATIONS AND CONSTRUCTION STANDARDS.
- THE CONTRACTOR SHALL COORDINATE MAINTENANCE AND PROTECTION OF TRAFFIC WITH THE TOWN OF BETHLEHEM. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. ALL NECESSARY SIGNAGE SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ALL UTILITY FRAMES SHALL BE SET AT THE BINDER COURSE ELEVATION AND RAISED TO THE TOP COURSE ELEVATION AT THE TIME OF TOP COURSE PLACEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY WORK EASEMENTS THAT MAY BE REQUIRED FOR EXCAVATION AND ASSOCIATED DISTURBANCE OUTSIDE OF THE RIGHT-OF-WAY ON ADJACENT PRIVATE LANDS.
- ALL WATERMAIN MATERIALS SHALL CONFORM TO THE TOWN OF BETHLEHEM STANDARDS AND APPLICABLE AWWA STANDARDS.
- WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARDS FOR DISINFECTING WATER MAINS, C-651-14, WITH THE EXCEPTION OF SECTION 5.1, TABLE METHOD. FINAL FLUSHING OF THE HEAVILY CHLORINATED WATER GENERATED FROM THE WATER MAIN DISINFECTION PROCESS SHALL BE NEUTRALIZED AND DISPOSED OF IN ACCORDANCE WITH AWWA STANDARDS FOR DISINFECTING WATER MAINS, C-651-14.
- WATERMANS SHALL BE PRESSURE AND LEAKAGE TESTED IN ACCORDANCE WITH SECTION 4 OF THE AWWA C-600 LATEST EDITION.
- WATER METERS FOR EACH INDIVIDUAL RESIDENTIAL UNIT SHALL BE PLACED ON THE SERVICE LATERAL IN THE RESPECTIVE RESIDENTIAL UNIT PRIOR TO ANY DISCHARGE POINTS WITH MATERIALS IN ACCORDANCE WITH THE TOWN OF BETHLEHEM STANDARDS AND ALL APPLICABLE AWWA STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND COORDINATE ANY REQUIRED BRACING OR RELOCATION OF ANY UTILITY POLE OR STRUCTURE WITH THE APPROPRIATE UTILITY COMPANY.
- ALL FILL TO ACHIEVE THE PROPOSED ELEVATIONS SHALL BE COMPACTED TO 95% PROCTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND COORDINATION OF THE TESTING AND DOCUMENTATION OF THE FILL MATERIAL AND THE COMPACTING OF THE FILL MATERIAL.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THE SURFACE OF ALL EXISTING ROADWAYS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURFACE RESTORATION AND REPAIR RESULTING FROM THE CONTRACTORS ACTIVITIES. TREE TRIMMING SHALL BE PERFORMED BY THE CONTRACTOR AS NECESSARY WITHIN THE RIGHT-OF-WAY OR UTILITY EASEMENTS. ALL DISTURBED UTILITIES, DRIVEWAY CULVERTS, LAWNS, MAILBOXES, FENCES, SIGNS, DRIVEWAYS, DITCHES ETC. SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION, LINES, GRADES AND POSITIONS.
- ALL DISTURBANCE LIMITS AND SETBACKS SHALL BE STAKED OR FLAGGED IN THE FIELD PRIOR TO BEGINNING GRADING AND CLEARING ACTIVITIES.
- THIS PROPERTY MAY BORDER A FARM, AS DEFINED BY TOWN LAW. RESIDENTS SHOULD BE AWARE THAT FARMERS HAVE A RIGHT TO UNDERTAKE FARM PRACTICES WHICH MAY GENERATE DUST, ODOR, SMOKE, NOISE AND VIBRATION.
- WATER SERVICES AND SEWER LATERALS SHALL BE SEPARATED BY 10 FEET MINIMUM HORIZONTALLY.
- CURB STOPS SHALL NOT BE LOCATED WITHIN DRIVEWAYS.
- UTILITIES SHALL NOT BE INSTALLED UNDER PROPOSED DRIVEWAYS.
- STREET OPENING PERMITS MUST BE OBTAINED FROM THE TOWN OF BETHLEHEM HIGHWAY DEPT. AND NEW YORK STATE DEPARTMENT OF TRANSPORTATION, PRIOR TO CONSTRUCTION.
- PRIOR TO CONSTRUCTION: THE LOCATION OF ALL EXISTING UTILITY POLES, OVERHEAD UTILITIES AND UNDERGROUND UTILITIES ON THE SITE SHALL BE DETERMINED BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER. THE COORDINATION AND COST FOR THE RELOCATION OR MODIFICATION OF ANY UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE COSTS FOR THIS UTILITY WORK SHALL BE PROVIDED TO THE OWNER AND DESIGN ENGINEER FOR REVIEW.
- UPON ISSUANCE OF A BUILDING PERMIT, A TEMPORARY SIGN WITH 4 INCH BLOCK LETTERS IS TO BE ERRECTED AT THE SITE DISPLAYING THE HOUSE NUMBER. ONCE THE STRUCTURE IS COMPLETED, THE ADDRESS NUMBER IS TO BE DISPLAYED EITHER ON THE HOUSE OR MAILBOX WITH 4 INCH LETTERS. IT WILL BE THE BUILDING INSPECTOR'S RESPONSIBILITY TO INSURE THAT THE PROPER ADDRESS NUMBERS ARE DISPLAYED BEFORE A C.O. IS ISSUED.
- THE PROJECT OWNER OR THEIR REPRESENTATIVE SHALL BE PROVIDED WITH AN OPPORTUNITY TO REVIEW THE EXCAVATED MATERIAL BEFORE IT IS HAULED OFF THE SITE. AT THE DIRECTION OF THE OWNER, SUITABLE EXCAVATED MATERIAL SHALL BE RELOCATED TO THE ADJACENT VAN DYKE SPINNEY SENIOR HOUSING DEVELOPMENT, STOCKPILED, AND STABILIZED IN ACCORDANCE WITH THE PROJECT STORMWATER POLLUTION PREVENTION PLAN. UNSUITABLE EXCAVATED MATERIAL SHALL BE HAULED OFF SITE AND PROPERLY DISPOSED OF.
- THE PROPOSED DEVELOPMENT CONTAINS AREAS OF STEEP SLOPES AS DEFINED BY THE TOWN OF BETHLEHEM. A SITE SPECIFIC SLOPE STABILITY ANALYSIS HAS BEEN PREPARED FOR THE SUBDIVISION AND A STEEP SLOPE SETBACK LINE HAS BEEN ESTABLISHED BASED ON THE RESULTS OF THE SLOPE STABILITY ANALYSIS. NO STRUCTURES SHALL BE ERRECTED BETWEEN THE STEEP SLOPE SETBACK LINE (IDENTIFIED AS THE "DENTE SLOPE SETBACK LINE - REVISED" ON THESE PLANS) AND THE TOE OF THE STEEP SLOPE. ANY FUTURE CLEARING OR LAND DISTURBANCE ACTIVITIES PERFORMED BY THE CURRENT OR FUTURE OWNERS OF THE PROPOSED SUBDIVISION LOTS SHALL BE IN CONFORMANCE WITH SECTION 128-49 OF THE TOWN OF BETHLEHEM ZONING LAW.
- THE DRIVEWAY FOR LOT 1 SHALL BE PLACED NO FURTHER SOUTH ALONG VAN DYKE ROAD THAN THE LOCATION SHOWN IN THESE PLANS IN ORDER TO PROVIDE THE REQUIRED STOPPING SIGHT DISTANCES.



SITE LOCATION MAP



SITE STATISTICS:

TAX MAP IDENTIFICATION SBL #: 96.00-1-30.1
 ZONING - RESIDENTIAL A
 TOTAL PARCEL SIZE - 9.32± ACRES (WEST OF VAN DYKE ROAD)
 48.83± ACRES (EAST OF VAN DYKE ROAD)
 SANITARY SEWER DISPOSAL - TOWN OF BETHLEHEM SEWER DIVISION
 WATER SUPPLY - TOWN OF BETHLEHEM WATER DIVISION
 NO. PROPOSED LOTS - 3 SINGLE-FAMILY RESIDENTIAL LOTS
 MINIMUM LOT SIZE - 14,520 SF (WITH MUNICIPAL WATER & SEWER)
 MINIMUM WIDTH OF LOT - 100'
 FRONT YARD SETBACK - 35' MINIMUM
 SIDE YARD SETBACK - 10' (EACH)
 REAR YARD SETBACK - 25' MINIMUM

SURVEY NOTES:

MAP REFERENCES:
 1. MAP ENTITLED "MAP OF LANDS AND PERMANENT EASEMENTS TO BE ACQUIRED BY THE TOWN OF BETHLEHEM" AS PREPARED BY THE TOWN OF BETHLEHEM AND SIGNED BY BRUCE SECOR ON JULY 8, 1980 AS DRAWING #F.P.-1V.B.-S-1.
 2. MAP ENTITLED "NIAGARA MOHAWK POWER CORPORATION ALBANY, N.Y. NEW SCOTLAND - REYNOLDS RD. TRANSMISSION LINE PLAN & PROFILE" AS PREPARED BY NIAGARA MOHAWK AND DATED 2/10/64 AND LAST REVISED 5/12/93.
 3. MAP ENTITLED "NIAGARA MOHAWK NEW SCOTLAND - ALBANY #8 PLAN & PROFILE DRAWING NUMBER D-27349-E, SHEET NUMBER 8 OF 16" AS PREPARED BY NIAGARA MOHAWK AND DATED 3/12/90.
 WETLANDS:
 1. WETLANDS DELINEATED BY NORTH COUNTRY ECOLOGICAL SERVICES.

STOPPING SIGHT DISTANCE			
LOCATION	TRAVELING	GUIDELINE (FEET) ^a	MEASURED (FEET) ^b
VAN DYKE ROAD AT LOT #1 DRIVEWAY (NORTH)	NB	229 ^a	275
	SB	250	>500

^a=BASED ON STANDARDS ESTABLISHED IN "A POLICY ON THE GEOMETRIC DESIGN OF HIGHWAYS AND STREETS", AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2018 FOR 35-MPH OPERATING SPEED.
^b=BASED ON FIELD MEASUREMENTS TAKEN BY VHB.
^c=ADJUSTED FOR A 6% UPGRADE APPROACHING THE DRIVEWAY.

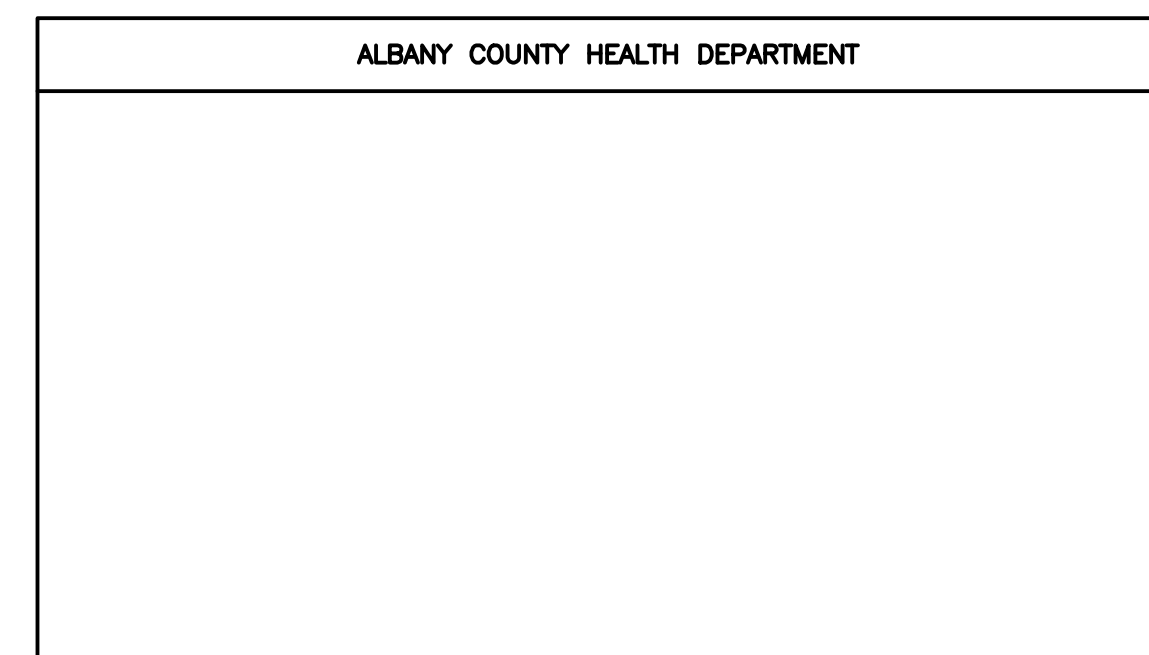
APPLICANT
 VAN DYKE SPINNEY, LLC
 1 JUNIPER DRIVE
 DELMAR, NY 12054

SHEET LIST TABLE		
Sheet Number	Sheet Designation	Sheet Description
1	COV-1	COVER SHEET
2	SUB-1	SUBDIVISION PLAN
3	OP-1	OVERALL PLAN
4	LMG-1	LAYOUT, MATERIALS & GRADING PLAN (SOUTH)
5	LMG-2	LAYOUT, MATERIALS & GRADING PLAN (NORTH)
6	CS-1	LOT CROSS SECTIONS (SOUTH)
7	CS-2	LOT CROSS SECTIONS (NORTH)
8	ESCP-1	EROSION & SEDIMENT CONTROL PLAN (SOUTH)
9	ESCP-2	EROSION & SEDIMENT CONTROL PLAN (NORTH)
10	DT-1	EROSION & SEDIMENT CONTROL DETAILS
11	DT-2	SANITARY SEWER SYSTEM DETAILS
12	DT-3	MISCELLANEOUS SITE DETAILS

TOWN STANDARD NOTES:

- CONSTRUCTION FENCE MUST BE INSTALLED ALONG WETLAND BOUNDARIES AND BUFFERS WITHIN 25 FEET OF ANY ACTIVITY.
- ALL DISTURBED SOILS MUST BE STABILIZED WITH A MINIMUM COVER OF MULCH MEETING THE REQUIREMENTS OF THE CURRENT NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, WHICH INCLUDES WINTER STABILIZATION.
- ALL E&SC MEASURES MUST BE INSPECTED AND MAINTAINED IN COMPLIANCE WITH §128-49 OF THE TOWN CODE.
- ALL CUT AND FILL SLOPES WITHIN THE AREA OF DISTURBANCE MUST HAVE A MAXIMUM SLOPE OF 3:1 (H:V) OR 33%.
- ALL DRIVEWAYS AND WALKWAYS CONSTRUCTED ON THE PROPERTY MUST NOT EXCEED A MAXIMUM SLOPE OF 10%.
- FINAL GRADING MUST HAVE A MINIMUM OF 6" OF ELEVATION DROP OVER THE FIRST 10' AWAY FROM ALL STRUCTURES.
- ALL STRUCTURES SHALL HAVE A MINIMUM OF 6" REVEAL OF EXPOSED FOUNDATION.
- TYPICALLY, GARAGE FINISHED FLOOR (GFF) IS TO BE 18" ABOVE THE EXISTING ROADWAY CENTERLINE ELEVATION.
- NOTIFY THE ENGINEERING DIVISION OF ANY DEVIATIONS IN BUILDING LOCATION OR GRADING FROM APPROVED PLANS.

TOWN OF BETHLEHEM PLANNING BOARD



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REVISIONS RECORD/DESCRIPTION
 DATE
 10/29/19
 02/19/20
 10/07/20
 REVISION PER TOWN ENGINEERING REVIEW COMMENTS
 REVISION PER TOWN & TDE COMMENTS
 REVISION PER TOWN COMMENTS

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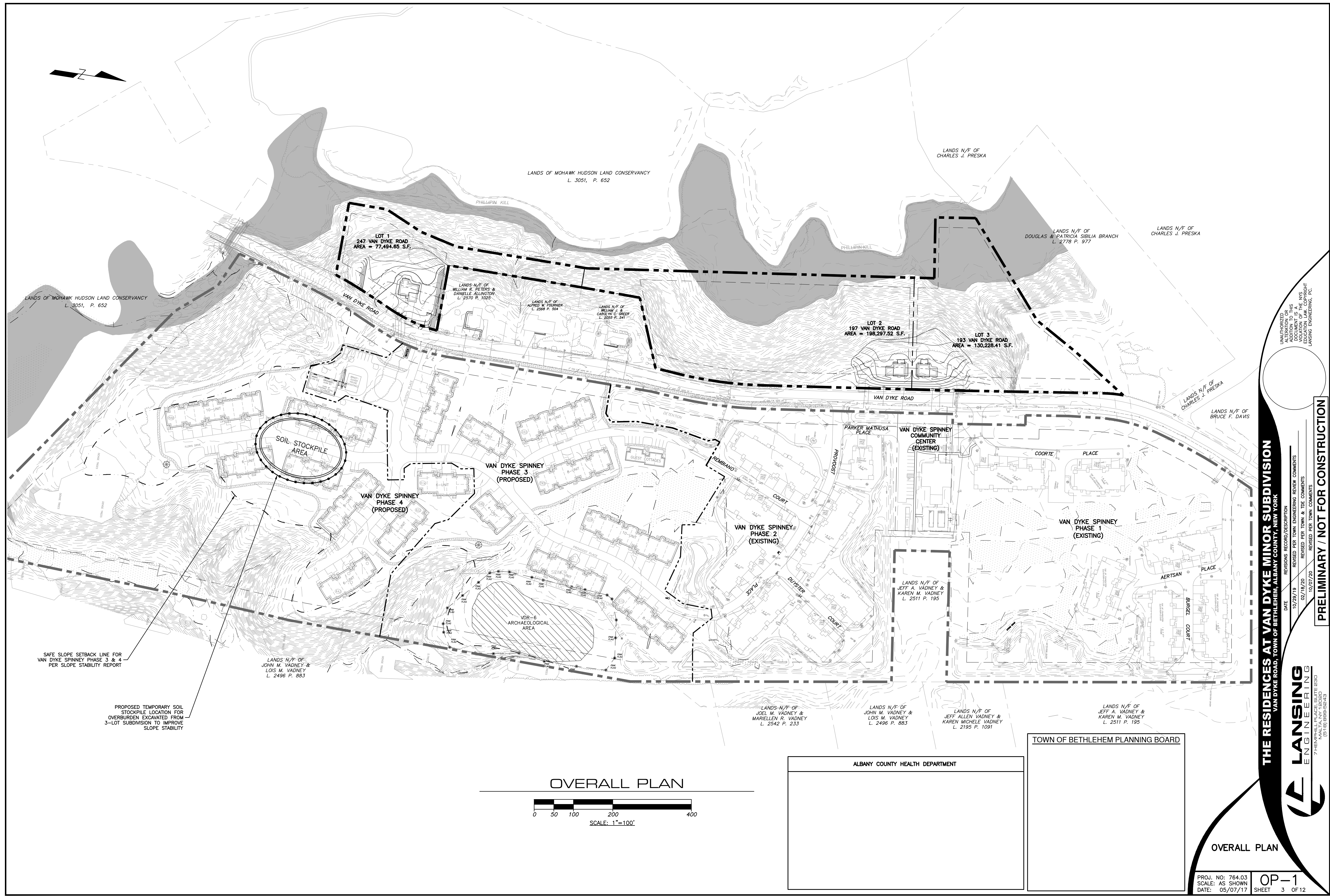
THE RESIDENCES AT VAN DYKE ROAD, TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

LANSING ENGINEERING
 7 HENRIETTA PLACE SUITE 200
 MALTA, NY 12050
 (518) 888-8843

COVER SHEET

PROJ. NO: 764.03
 SCALE: AS SHOWN
 DATE: 05/07/17

COV-1
 SHEET 1 OF 12



LANDS OF MOHAWK HUDSON LAND CONSERVANCY
L. 3051, P. 652

LANDS N/F OF
CHARLES J. PRESKA

LANDS N/F OF
DOUGLAS & PATRICIA SIBILIA BRANCH
L. 2778 P. 977

LANDS N/F OF
CHARLES J. PRESKA

LOT 1
247 VAN DYKE ROAD
AREA = 77,494.85 S.F.

LANDS N/F OF
WILLIAM R. PETERS &
DANIELLE ALINGTON
L. 2570 P. 1025

LANDS N/F OF
ALFRED W. FOURNIER
L. 2568 P. 504

LANDS N/F OF
WILLIAM J. &
CAROLYN C. GREER
L. 2055 P. 241

LOT 2
197 VAN DYKE ROAD
AREA = 198,297.52 S.F.

LOT 3
193 VAN DYKE ROAD
AREA = 130,228.41 S.F.

SOIL STOCKPILE
AREA

VAN DYKE SPINNEY
PHASE 3
(PROPOSED)

VAN DYKE SPINNEY
PHASE 4
(PROPOSED)

VAN DYKE SPINNEY
PHASE 2
(EXISTING)

VAN DYKE SPINNEY
COMMUNITY
CENTER
(EXISTING)

VAN DYKE SPINNEY
PHASE 1
(EXISTING)

LANDS N/F OF
JEFF A. VADNEY &
KAREN M. VADNEY
L. 2511 P. 195

VDR-6
ARCHAEOLOGICAL
AREA

LANDS N/F OF
JOEL M. VADNEY &
MARIELLEN R. VADNEY
L. 2542 P. 233

LANDS N/F OF
JOHN M. VADNEY &
LOIS M. VADNEY
L. 2496 P. 883

LANDS N/F OF
JEFF ALLEN VADNEY &
KAREN MICHELE VADNEY
L. 2185 P. 1091

LANDS N/F OF
JEFF A. VADNEY &
KAREN M. VADNEY
L. 2511 P. 195

LANDS OF MOHAWK HUDSON LAND CONSERVANCY
L. 3051, P. 652

SAFE SLOPE SETBACK LINE FOR
VAN DYKE SPINNEY PHASE 3 & 4
PER SLOPE STABILITY REPORT

PROPOSED TEMPORARY SOIL
STOCKPILE LOCATION FOR
OVERBURDEN EXCAVATED FROM
3-LOT SUBDIVISION TO IMPROVE
SLOPE STABILITY

LANDS N/F OF
JOHN M. VADNEY &
LOIS M. VADNEY
L. 2496 P. 883

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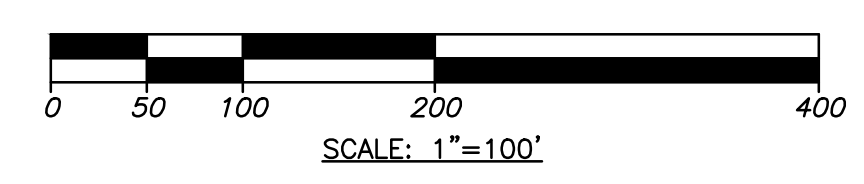
LANSING
ENGINEERING
7 HEMPILL PLACE, SUITE 200
BETHLEHEM, NY 12018
(518) 888-8243

THE RESIDENCES AT VAN DYKE MINOR SUBDIVISION
VAN DYKE ROAD, TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

PROJ. NO: 764.03
SCALE: AS SHOWN
DATE: 05/07/17

OP-1
SHEET 3 OF 12

OVERALL PLAN



ALBANY COUNTY HEALTH DEPARTMENT

TOWN OF BETHLEHEM PLANNING BOARD

OVERALL PLAN

- NOTES:**
1. THE FINISHED FLOOR ELEVATIONS SHOWN ARE BASED ON THE PROPOSED HOMES BEING CONSTRUCTED WITH SLAB-ON-GRADE FOUNDATIONS.
 2. FINISHED FLOOR ELEVATION OF GARAGES SHALL NOT EXCEED 202.60' ON LOT 1.
 3. IN ORDER TO OBTAIN A BUILDING PERMIT, APPLICANT MUST OBTAIN SIGN OFF ON THE FOUNDATION DESIGN BY A LICENSED DESIGN PROFESSIONAL THAT ALL SOIL CONDITIONS HAVE BEEN ACCOUNTED FOR IN THE PROPOSED FOUNDATION DESIGN.
 4. SOIL STOCKPILES SHALL BE LOCATED BETWEEN THE VAN DYKE ROAD RIGHT-OF-WAY AND THE "DENTE SLOPE SETBACK LINE - REVISED".
 5. EXISTING ELEVATION DATA WAS COLLECTED TO GENERATE CONTOURS AT 2-FT INTERVALS. THE 1-FT CONTOURS SHOWN ON THESE PLANS HAVE BEEN EXTRAPOLATED FROM THE ORIGINAL ELEVATION DATA.

- APPROXIMATE LOCATION OF PREVIOUS SLOPE MOVEMENT PER DENTE SLOPE STABILITY REPORT
- SWPPP GRADING LINE ±1.75 AC (TOTAL)
- FEMA FLOODZONE 100' BUFFER
- DENTE SLOPE SETBACK LINE - REVISED
- PROPOSED SURVEY MARKER LABELED "STEEP SLOPE SETBACK LINE" (TYP.)
- DENTE SLOPE SETBACK LINE - EXISTING
- PROPOSED GRINDER PUMP (TYP.)
- 5H:1V TOWN ANGLE OF REPOSE LINE

APPROXIMATE LOCATION AND DIRECTION OF SIGN

PLAN NO.	DESCRIPTION	QTY.
1	INTERSECTION WARNING SIGN - MUTCD W2-2 WITH "DRIVEWAY" SUPPLEMENTAL PLACARD	1

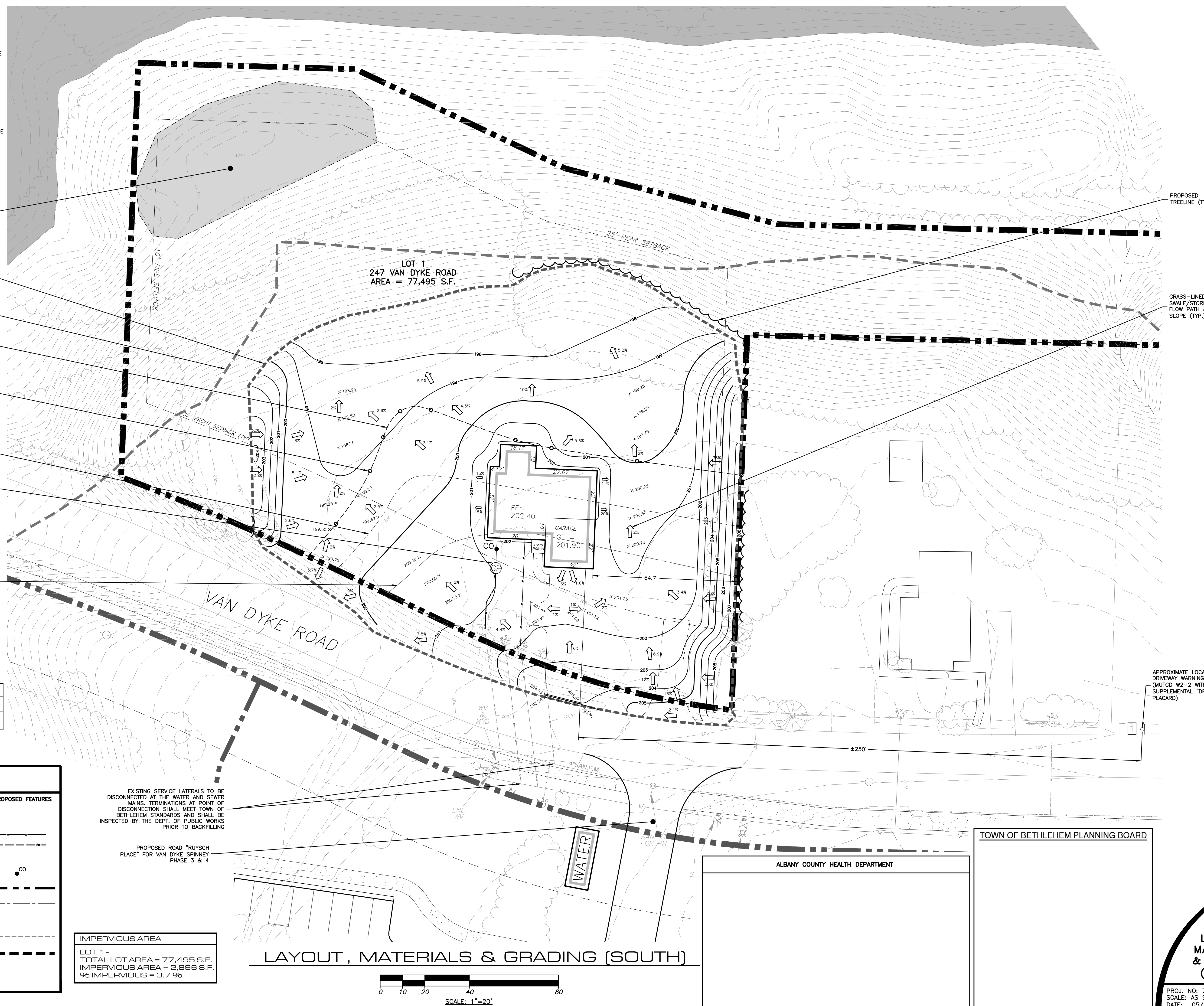
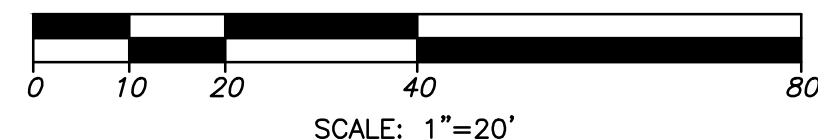
EXISTING FEATURES	PROPOSED FEATURES
	FIRE HYDRANT
	WATER LINE
	WATER SERVICE
	SANITARY FORCE MAIN
	SANITARY MANHOLE FRAME/SOLID COVER
	SANITARY CLEAN-OUT
	PROPERTY LINE
	TOWN 5V:1H SLOPE SETBACK LINE
	DENTE SLOPE SETBACK LINE - EXISTING
	DENTE SLOPE SETBACK LINE - REVISED
	FEMA FLOODZONE 100' BUFFER
	FEMA 100-YEAR FLOOD ZONE

IMPERVIOUS AREA
 LOT 1 - TOTAL LOT AREA = 77,495 S.F.
 IMPERVIOUS AREA = 2,896 S.F.
 % IMPERVIOUS = 3.7 %

EXISTING SERVICE LATERALS TO BE DISCONNECTED AT THE WATER AND SEWER MAINS. TERMINATIONS AT POINT OF DISCONNECTION SHALL MEET TOWN OF BETHLEHEM STANDARDS AND SHALL BE INSPECTED BY THE DEPT. OF PUBLIC WORKS PRIOR TO BACKFILLING

PROPOSED ROAD "TRUYSCH PLACE" FOR VAN DYKE SPURWAY PHASE 3 & 4

LAYOUT, MATERIALS & GRADING (SOUTH)



PROPOSED TREELINE (TYP.)

GRASS-LINED SWALE/STORMWATER RUNOFF FLOW PATH & APPROX. SLOPE (TYP.)

APPROXIMATE LOCATION OF DRIVEWAY WARNING SIGN (MUTCD W2-2 WITH SUPPLEMENTAL "DRIVEWAY" PLACARD)

THE RESIDENCES AT VAN DYKE ROAD, TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK



REVISIONS RECORD/DESCRIPTION

DATE	REVISIONS RECORD/DESCRIPTION
10/29/19	REVISED PER TOWN ENGINEERING REVIEW COMMENTS
02/16/20	REVISED PER TOWN & TDE COMMENTS
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LAYOUT, MATERIALS & GRADING (SOUTH)

PROJ. NO: 764.03
 SCALE: AS SHOWN
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LMG-1
 SHEET 4 OF 12

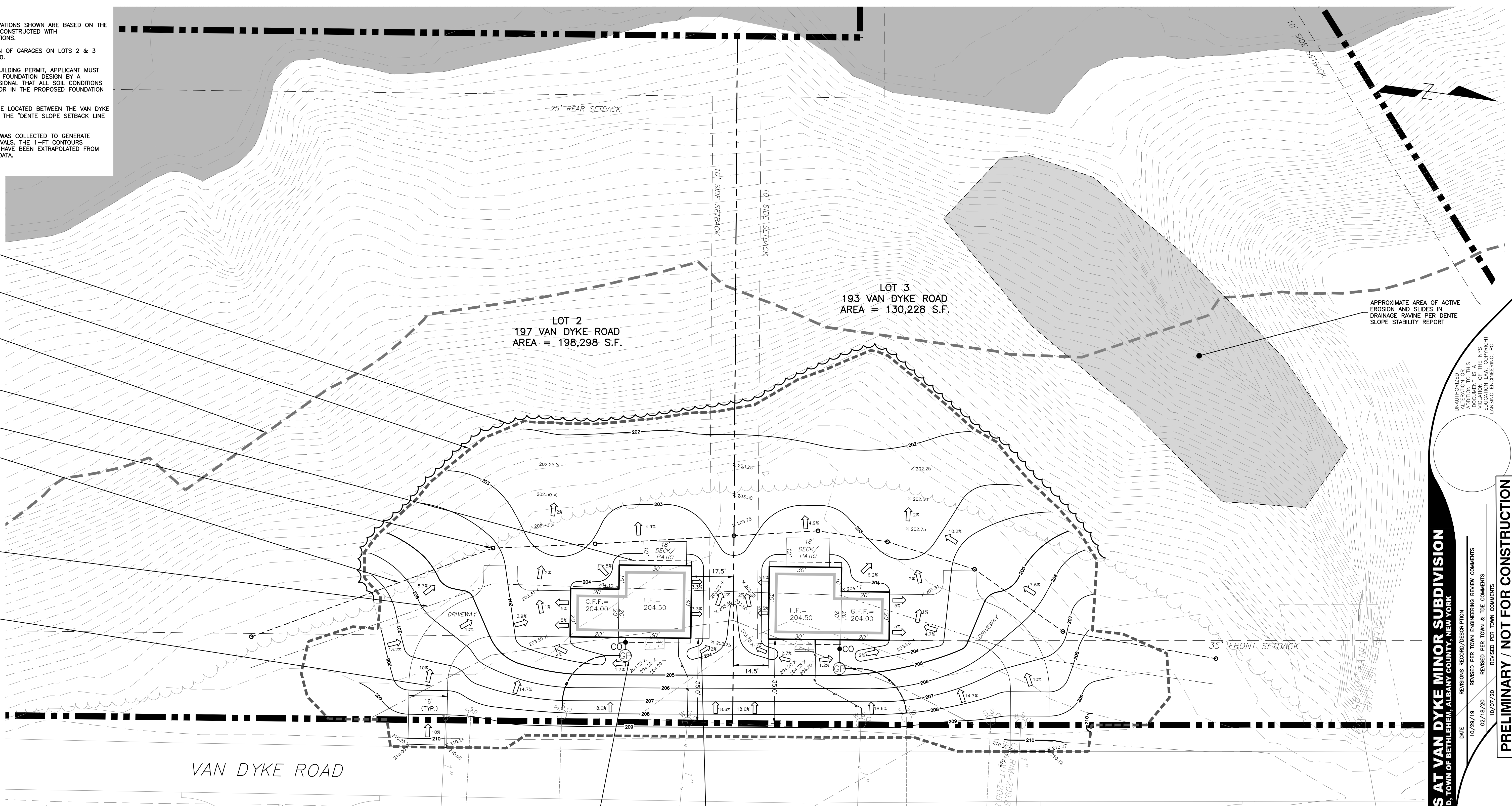
ALBANY COUNTY HEALTH DEPARTMENT

TOWN OF BETHLEHEM PLANNING BOARD

NOTES:

1. THE FINISHED FLOOR ELEVATIONS SHOWN ARE BASED ON THE PROPOSED HOMES BEING CONSTRUCTED WITH SLAB-ON-GRADE FOUNDATIONS.
2. FINISHED FLOOR ELEVATION OF GARAGES ON LOTS 2 & 3 SHALL NOT EXCEED 204.00.
3. IN ORDER TO OBTAIN A BUILDING PERMIT, APPLICANT MUST OBTAIN SIGN OFF ON THE FOUNDATION DESIGN BY A LICENSED DESIGN PROFESSIONAL THAT ALL SOIL CONDITIONS HAVE BEEN ACCOUNTED FOR IN THE PROPOSED FOUNDATION DESIGN.
4. SOIL STOCKPILES SHALL BE LOCATED BETWEEN THE VAN DYKE ROAD RIGHT-OF-WAY AND THE "DENTE SLOPE SETBACK LINE - REVISED".
5. EXISTING ELEVATION DATA WAS COLLECTED TO GENERATE CONTOURS AT 2-FT. INTERVALS. THE 1-FT. CONTOURS SHOWN ON THESE PLANS HAVE BEEN EXTRAPOLATED FROM THE ORIGINAL ELEVATION DATA.

- PROPOSED TREE LINE (TYP.)
- SWPPP GRADING LINE ±1.75 AC (TOTAL)
- FEMA FLOODZONE 100' BUFFER
- 2' SECOND FLOOR BUILDING OVERHANG (TYP.)
- PROPOSED SURVEY MARKER LABELED "STEEP SLOPE SETBACK LINE" (TYP.)
- DENTE SLOPE SETBACK LINE - REVISED
- DENTE SLOPE SETBACK LINE - EXISTING
- 5H:1V TOWN ANGLE OF REPOSE LINE



APPROXIMATE AREA OF ACTIVE EROSION AND SLIDES IN DRAINAGE RAVINE PER DENTE SLOPE STABILITY REPORT

VAN DYKE ROAD

SAN F.M. HDPE DR 11

EXISTING SERVICE LATERALS TO BE DISCONNECTED AT THE WATER AND SEWER MAINS. TERMINATIONS AT POINT OF DISCONNECTION SHALL MEET TOWN OF BETHLEHEM STANDARDS AND SHALL BE INSPECTED BY THE DEPT. OF PUBLIC WORKS PRIOR TO BACKFILLING

EXISTING SERVICE LATERALS TO BE DISCONNECTED AT THE WATER AND SEWER MAINS. TERMINATIONS AT POINT OF DISCONNECTION SHALL MEET TOWN OF BETHLEHEM STANDARDS AND SHALL BE INSPECTED BY THE DEPT. OF PUBLIC WORKS PRIOR TO BACKFILLING

PROPOSED GRINDER PUMP (TYP.)

GRASS-LINED SWALE/STORMWATER RUNOFF FLOW PATH (TYP.)

LEGEND	
EXISTING FEATURES	PROPOSED FEATURES
	FIRE HYDRANT
	WATER LINE
	WATER SERVICE
	SANITARY FORCE MAIN
	SANITARY MANHOLE FRAME/COVER
	SANITARY CLEAN-OUT
	PROPERTY LINE
	TOWN 5:1H SLOPE SETBACK LINE
	DENTE SLOPE SETBACK LINE - EXISTING
	DENTE SLOPE SETBACK LINE - REVISED
	FEMA FLOODZONE 100' BUFFER
	FEMA 100-YEAR FLOOD ZONE

IMPERVIOUS AREA
LOT 2 - TOTAL LOT AREA = 198,298 S.F. IMPERVIOUS AREA = 3,247 S.F. % IMPERVIOUS = 1.6 %
LOT 3 - TOTAL LOT AREA = 130,228 S.F. IMPERVIOUS AREA = 3,273 S.F. % IMPERVIOUS = 2.5 %

LAYOUT, MATERIALS & GRADING (NORTH)

ALBANY COUNTY HEALTH DEPARTMENT

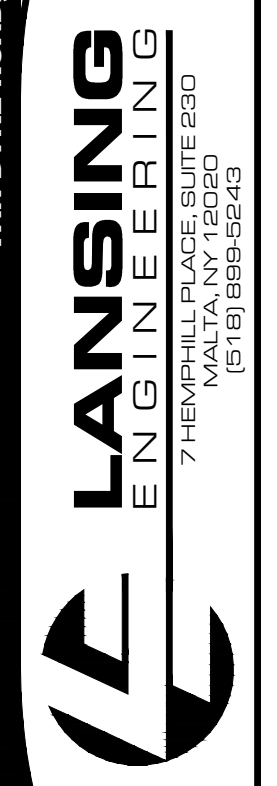
TOWN OF BETHLEHEM PLANNING BOARD

LAYOUT, MATERIALS & GRADING (NORTH)

PROJ. NO: 764.03
SCALE: AS SHOWN
DATE: 05/07/17

LMG-2
SHEET 5 OF 12

THE RESIDENCES AT VAN DYKE ROAD, TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK



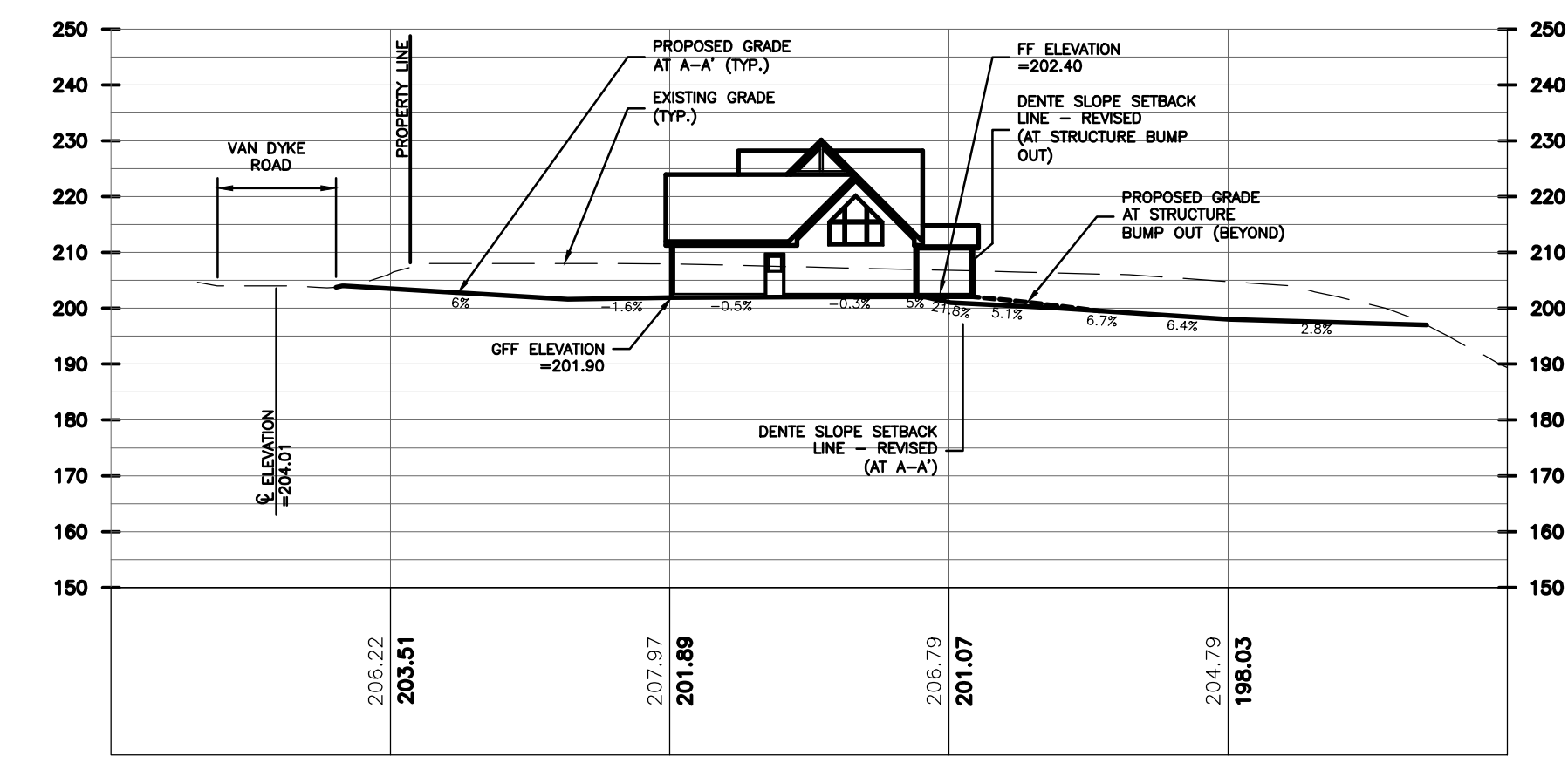
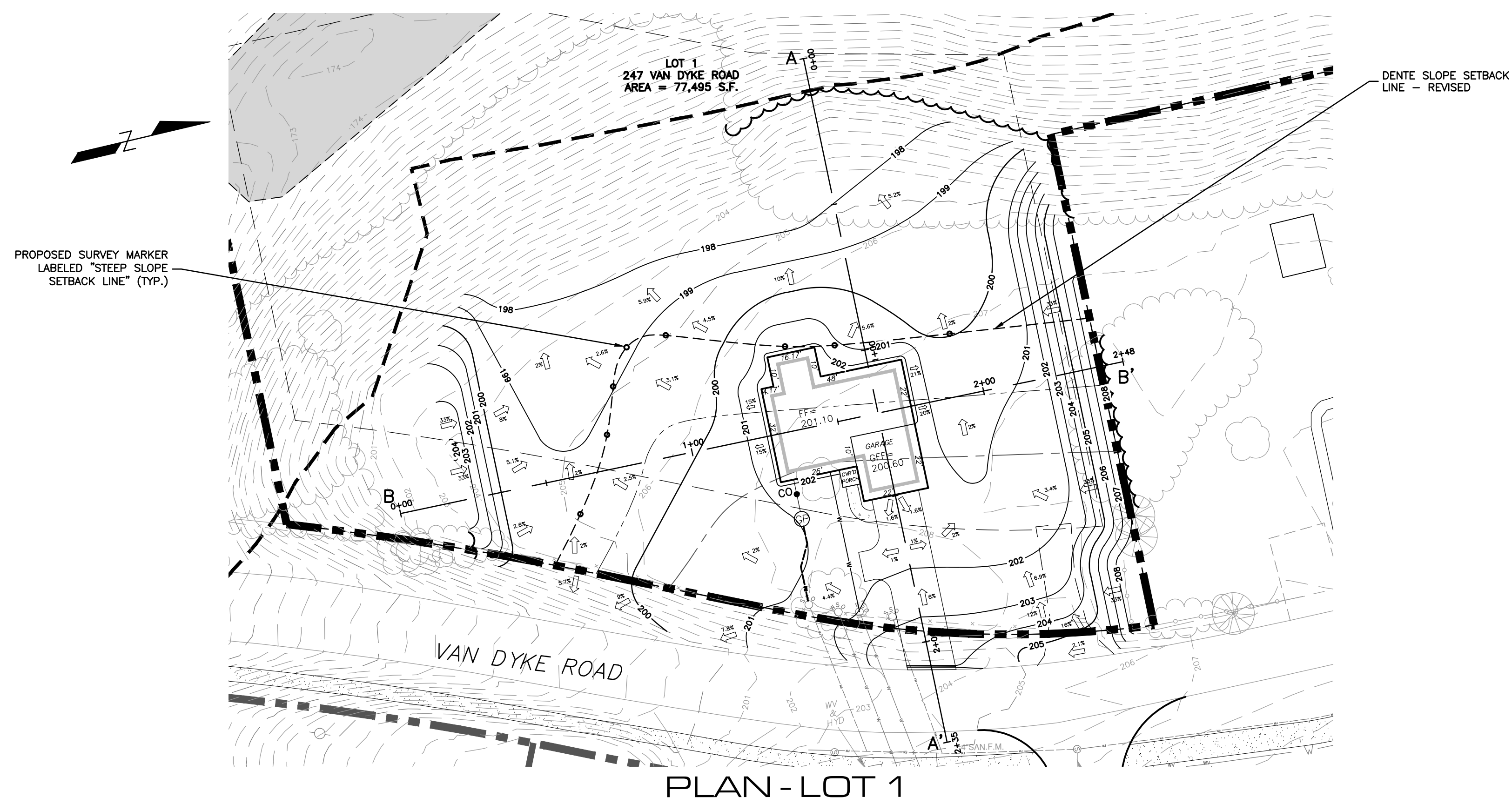
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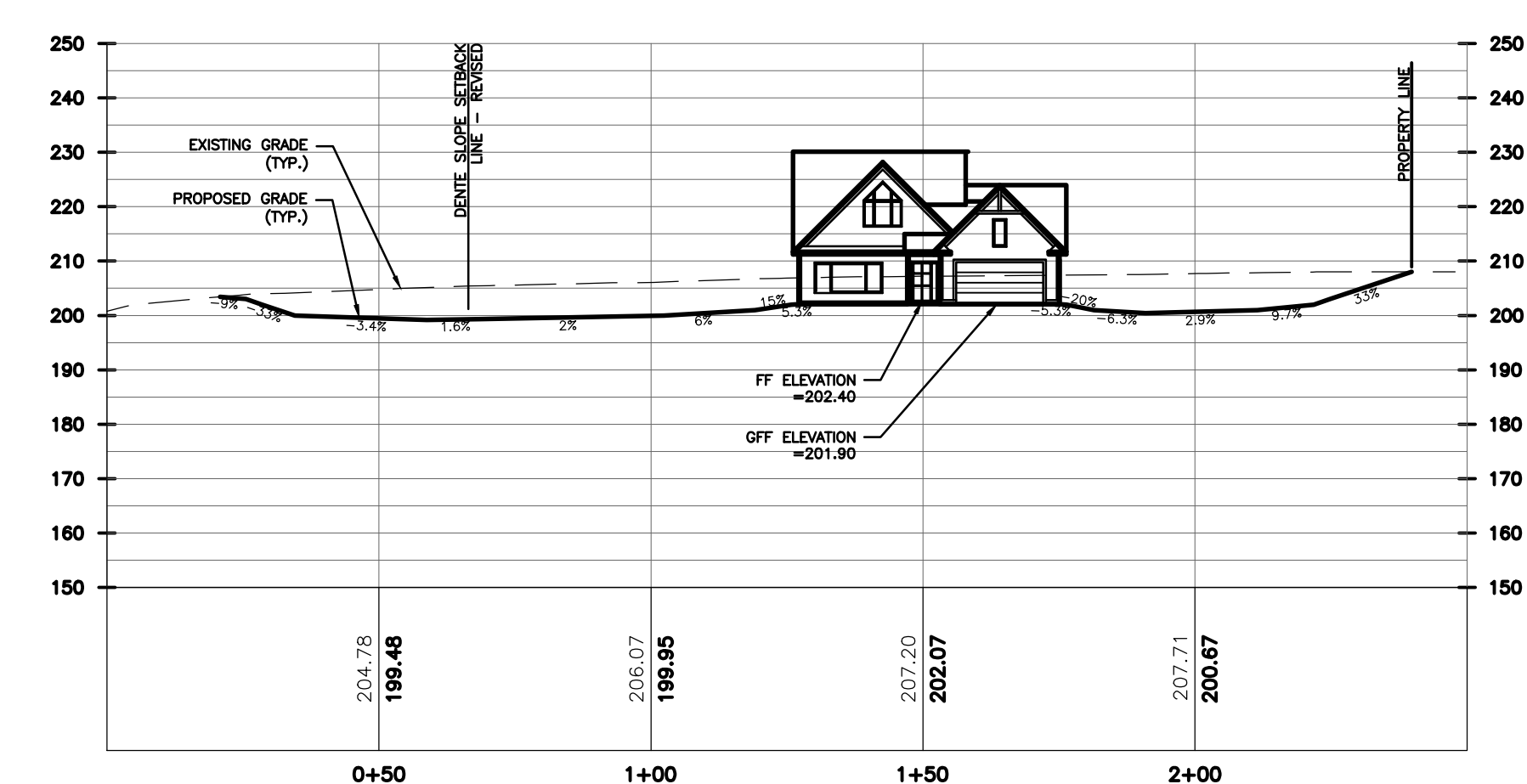
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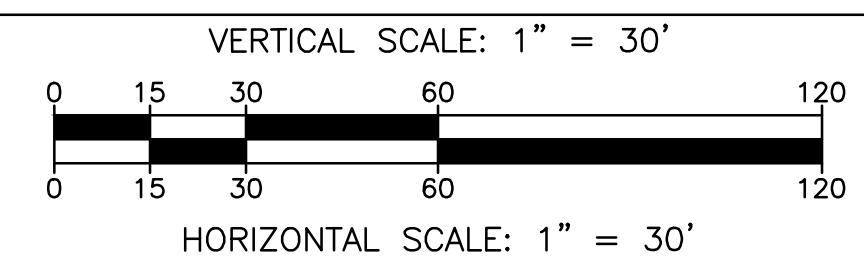
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LOT 1 - SECTION A-A' STA 0+00 TO 2+35



LOT 1 - SECTION B-B' STA 0+00 TO 2+48



TOWN OF BETHLEHEM PLANNING BOARD

ALBANY COUNTY HEALTH DEPARTMENT

THE RESIDENCES AT VAN DYKE ROAD, TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

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7 HEMP HILL PLACE, SUITE 230
ALBANY, NY 12205
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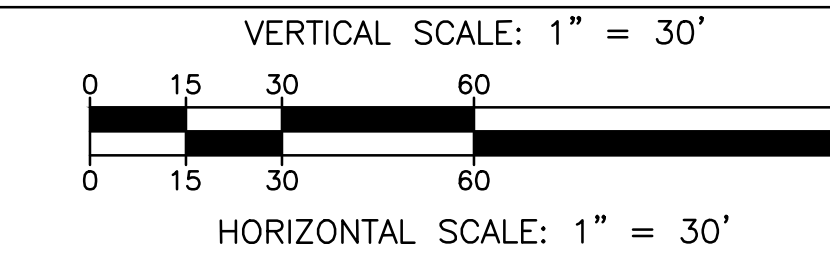
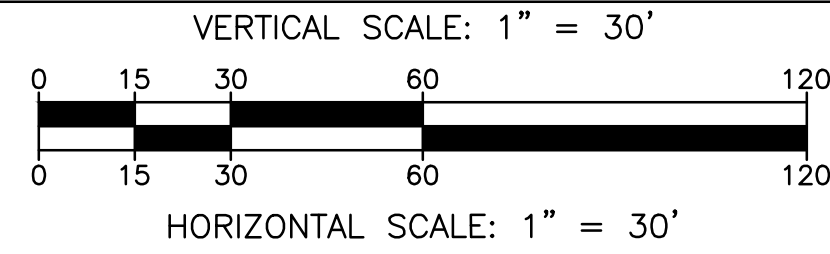
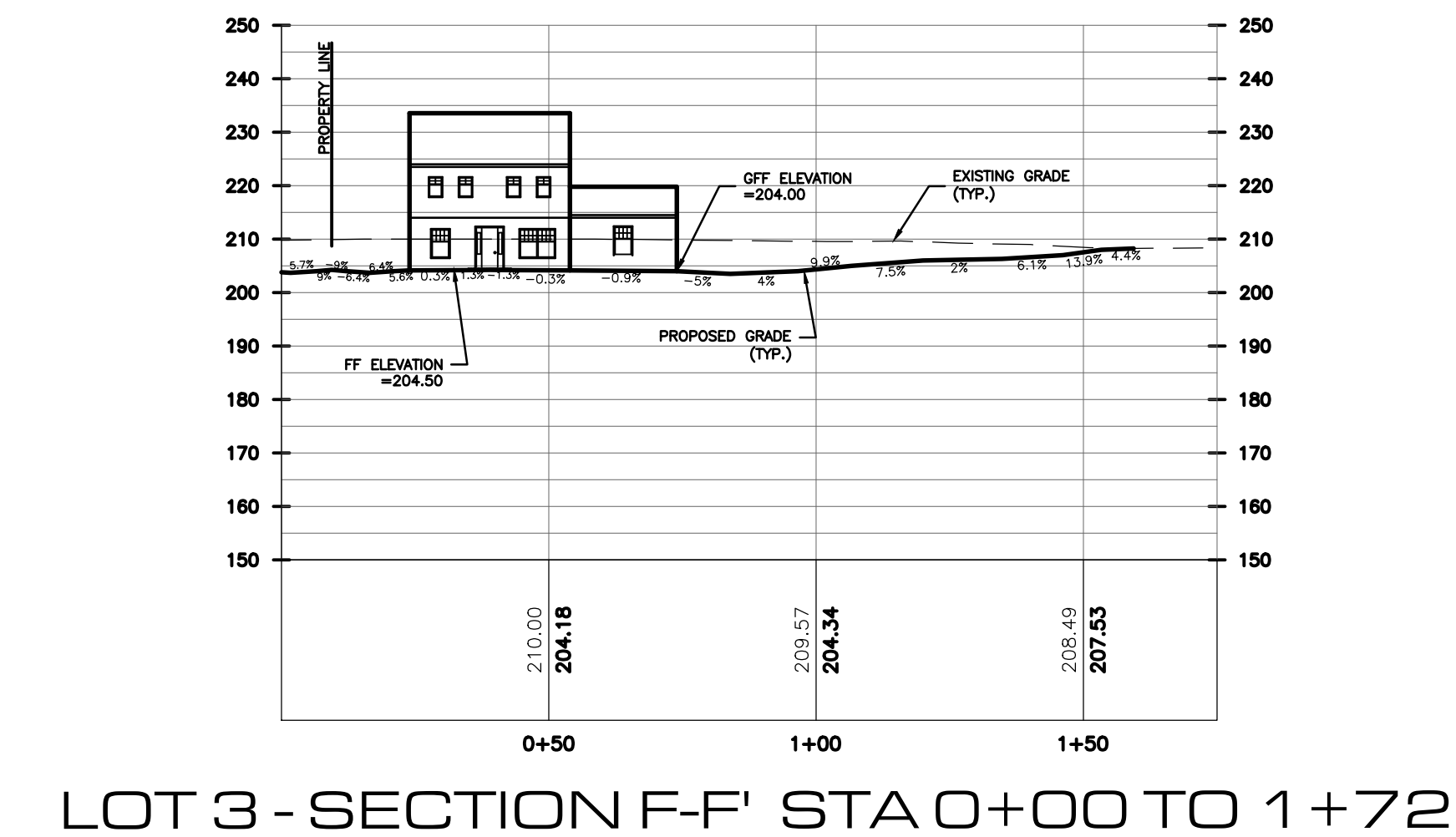
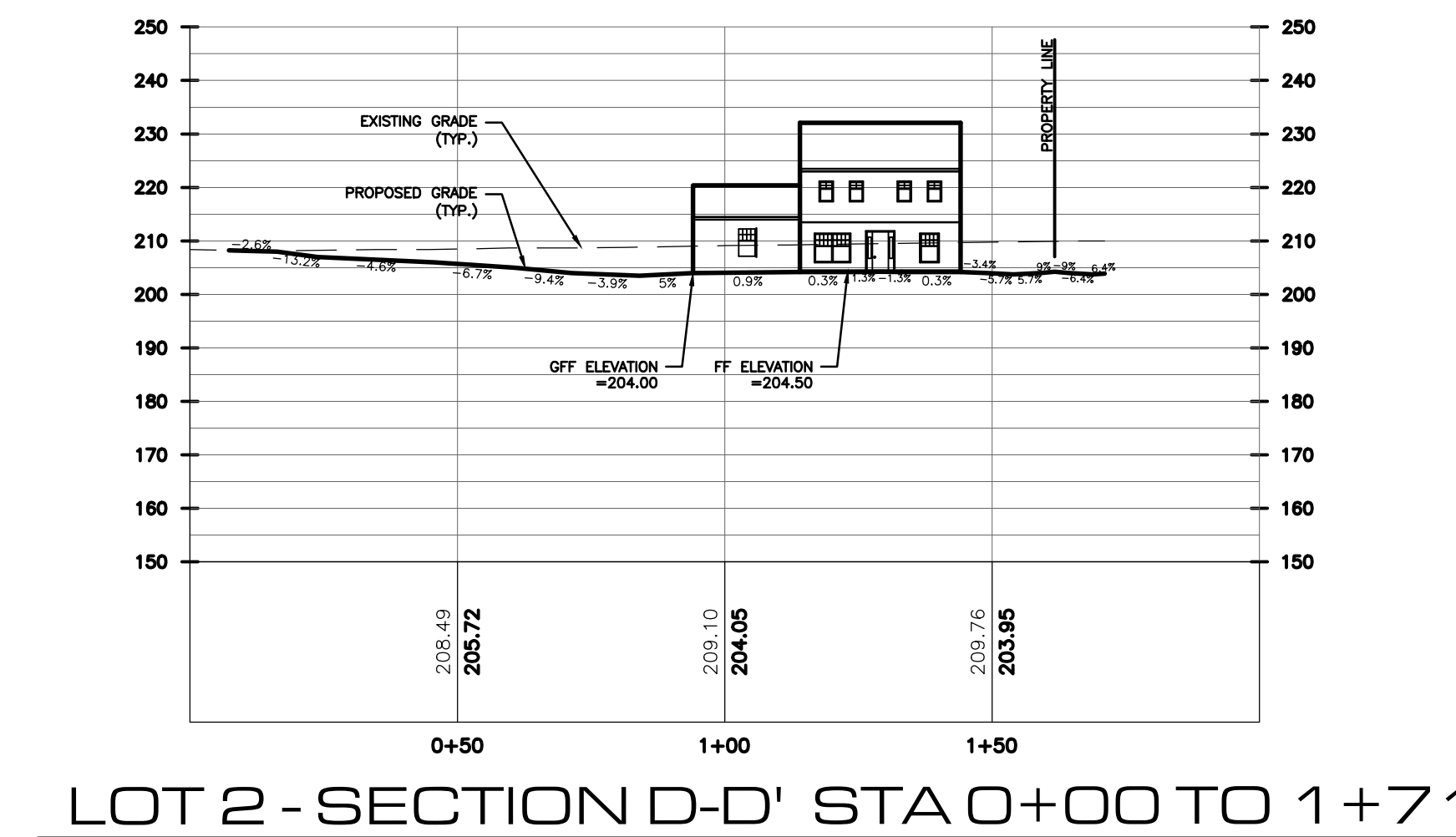
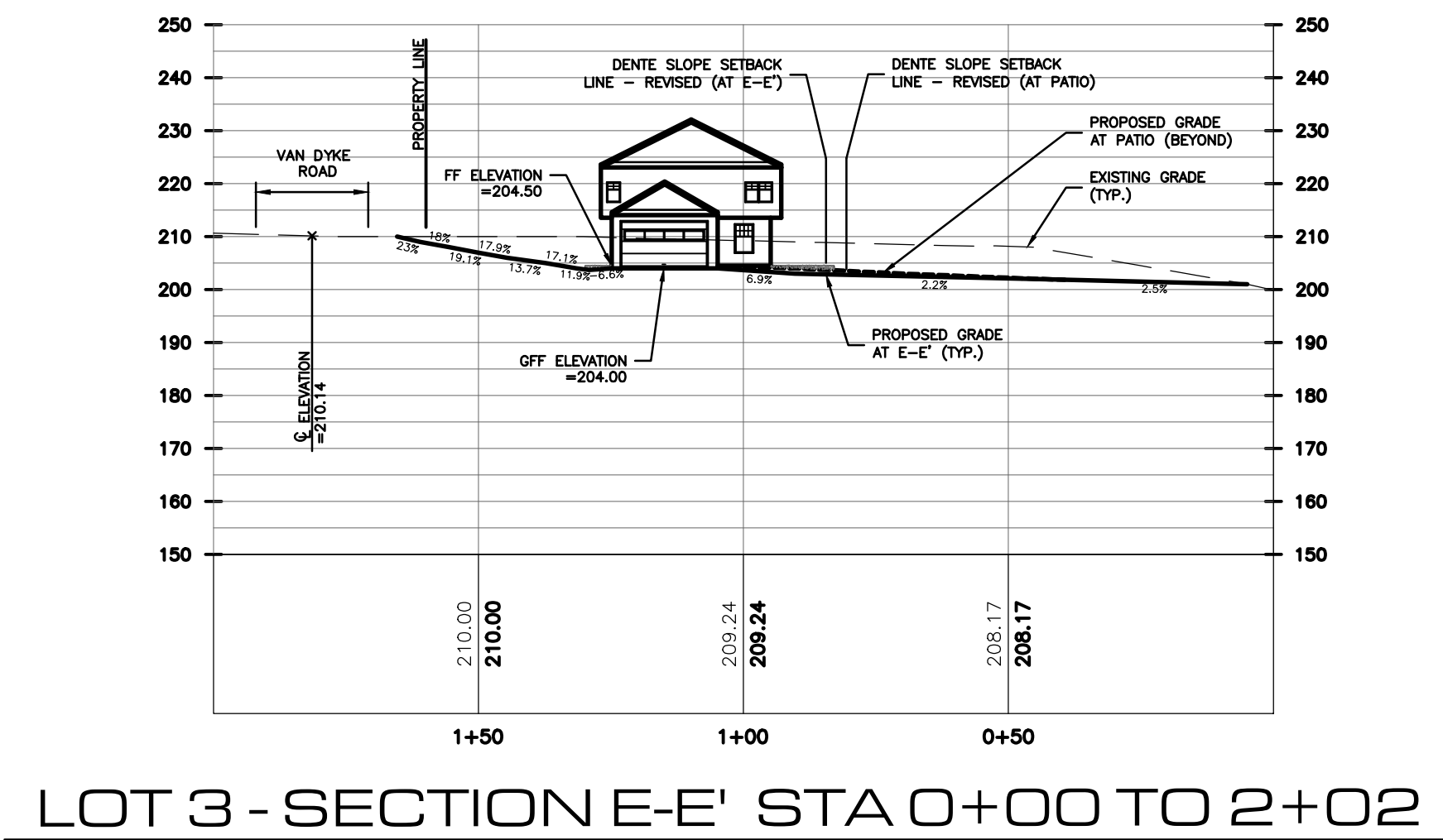
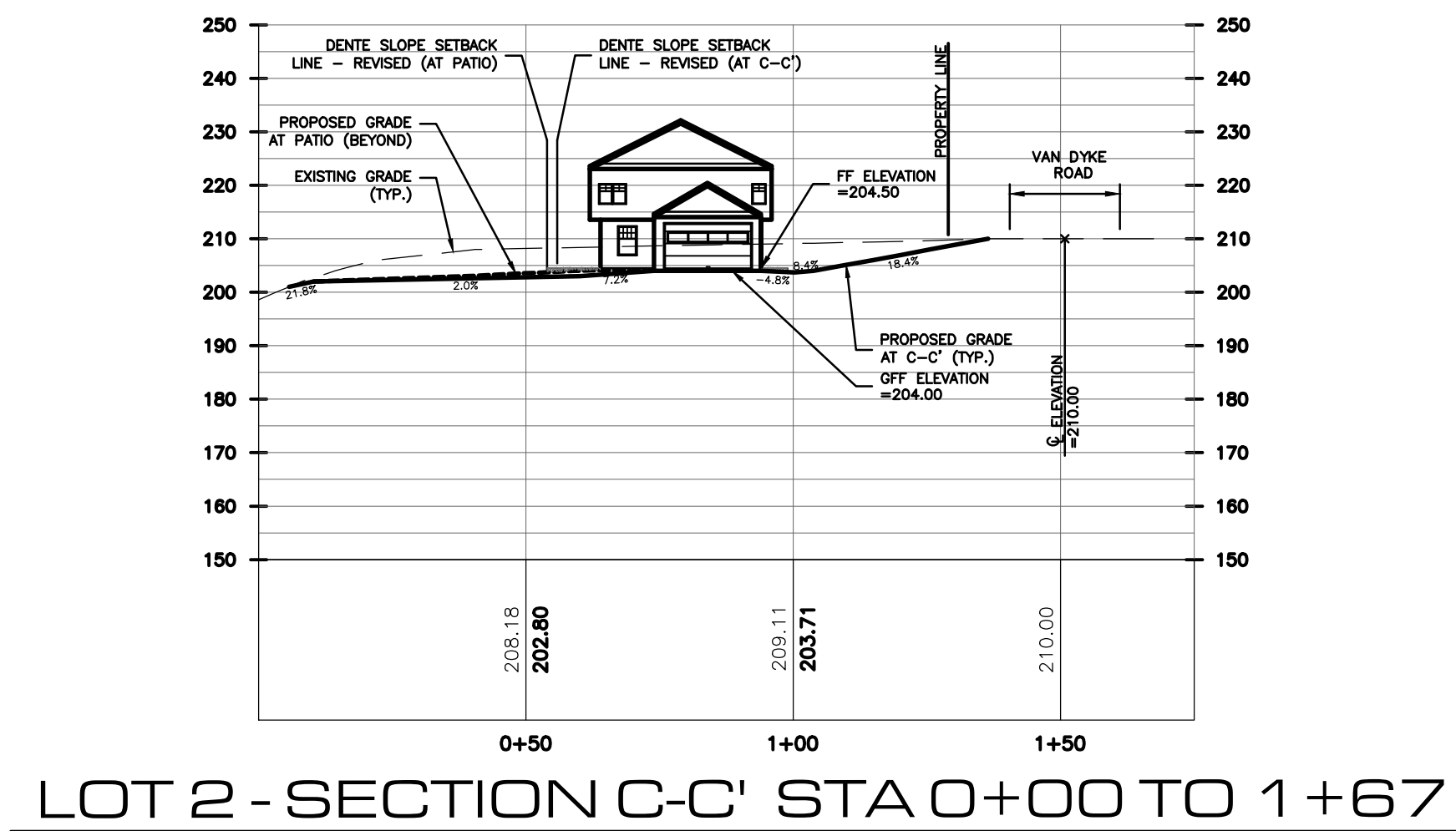
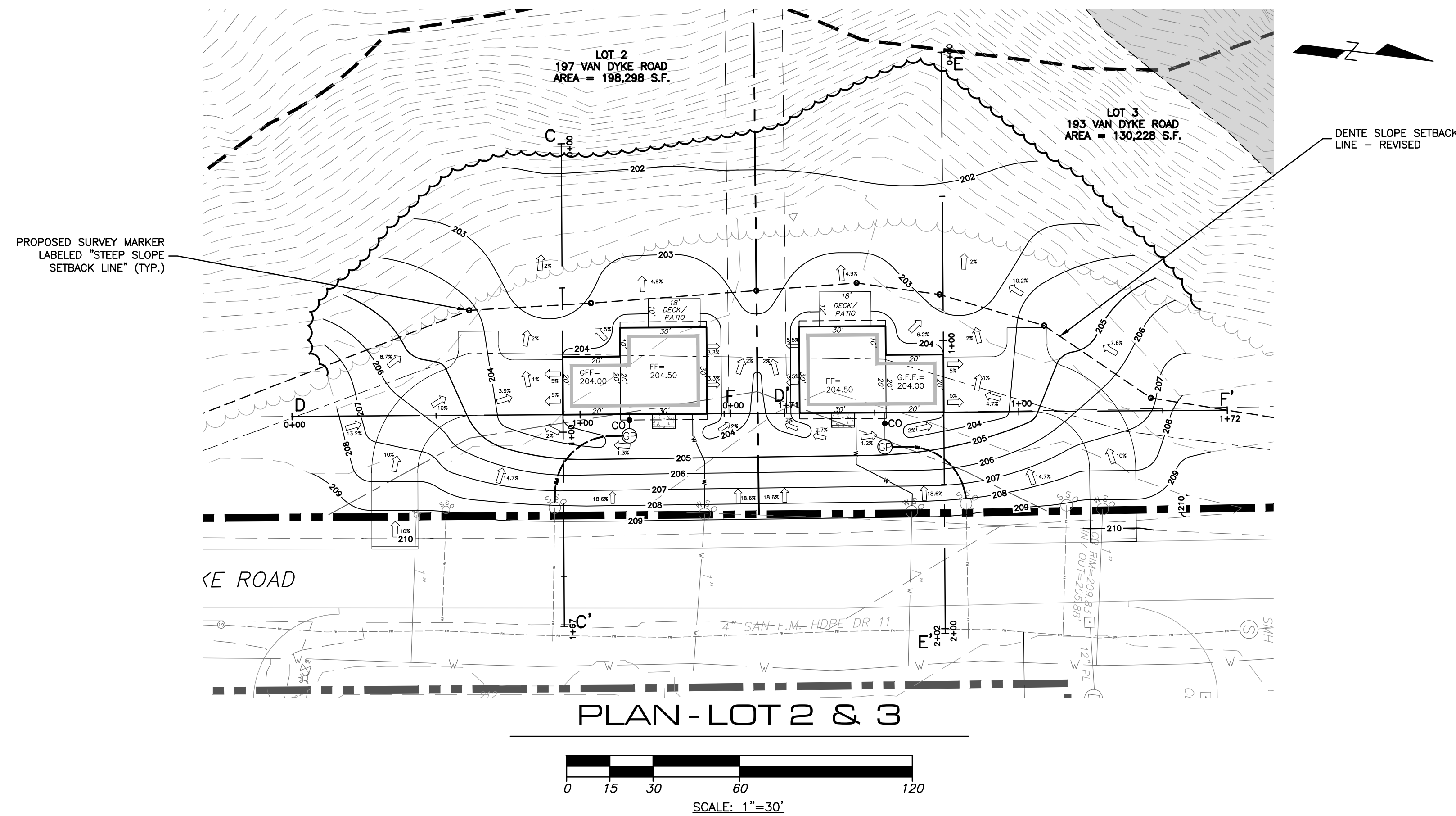
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LOT CROSS SECTIONS (SOUTH)

NOTES:

1. THE PROJECT OWNER OR THEIR REPRESENTATIVE SHALL BE PROVIDED WITH AN OPPORTUNITY TO REVIEW THE IN-SITU SOIL EXCAVATED FROM THE SITE BEFORE IT IS HAULED OFF SITE. AT THE DIRECTION OF THE OWNER, SUITABLE EXCAVATED MATERIAL SHALL BE RELOCATED TO THE ADJACENT VAN DYKE SPINNEY SENIOR HOUSING DEVELOPMENT, STOCKPILED, AND STABILIZED IN ACCORDANCE WITH THE PROJECT STORMWATER POLLUTION PREVENTION PLAN. UNSUITABLE EXCAVATED MATERIAL SHALL BE HAULED OFF SITE AND PROPERLY DISPOSED OF.



TOWN OF BETHLEHEM PLANNING BOARD

ALBANY COUNTY HEALTH DEPARTMENT

THE RESIDENCES AT VAN DYKE ROAD, TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

LANSING ENGINEERING
 7 HEMPHILL PLACE, SUITE 630
 ALBANY, NY 12205
 (518) 869-9242

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TABLE 5.3 SOIL RESTORATION REQUIREMENTS*

TYPE OF SOIL DISTURBANCE	SOIL RESTORATION REQUIREMENT	COMMENTS/ EXAMPLES
NO SOIL DISTURBANCE	RESTORATION NOT PERMITTED	PRESERVATION OF NATURAL FEATURES
MINIMAL SOIL DISTURBANCE	RESTORATION NOT PERMITTED	CLEARING AND GRUBBING
AREAS WHERE TOPSOIL IS STRIPPED ONLY - NO CHANGE IN GRADE	HSG A&B APPLY 6" OF TOPSOIL HSG C&D AERATE** AND APPLY 6" OF TOPSOIL	PROTECT AREA FROM ANY ONGOING CONSTRUCTION ACTIVITIES
AREAS OF CUT OR FILL	HSG A&B AERATE AND APPLY 6" OF TOPSOIL HSG C&D APPLY FULL SOIL RESTORATION***	
HEAVY TRAFFIC AREAS ON SITE (ESPECIALLY IN A ZONE 5-25 FEET AROUND BUILDINGS BUT NOT WITHIN A 5' PERIMETER AROUND FOUNDATION WALLS)	APPLY FULL SOIL RESTORATION (DE-COMPACTION AND COMPOST ENHANCEMENT)	
AREAS WHERE RUNOFF REDUCTION AND/OR INFILTRATION PRACTICES ARE APPLIED	RESTORATION NOT REQUIRED, BUT MAY BE APPLIED TO ENHANCE THE REDUCTION SPECIFIED FOR APPROPRIATE PRACTICES	KEEP CONSTRUCTION EQUIPMENT FROM CROSSING THESE AREAS; TO PROTECT NEWLY INSTALLED PRACTICE FROM ANY ONGOING CONSTRUCTION ACTIVITIES, CONSTRUCT A SINGLE PHASE OPERATION FENCE AREA
REDEVELOPMENT PROJECTS	SOIL RESTORATION IS REQUIRED ON REDEVELOPMENT PROJECTS IN AREAS WHERE EXISTING IMPERVIOUS AREA WILL BE CONVERTED TO PERVIOUS AREA	

* TAKEN FROM PAGE 5-19 OF NEW YORK STATE STORMWATER DESIGN MANUAL, (JANUARY, 2015)
 ** AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR-DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SLIT IN THE SOIL. A ROLLER WITH MANY SPIKES MAKING INDENTATIONS IN THE SOIL, OR FRONTS WHICH FUNCTION LIKE A MINI-SUBSOILER.
 *** PER "DEEP RIPPING AND DE-COMPACTION, DEC 2008". A COPY IS INCLUDED WITHIN THE APPROVED SWPPP.

RECOMMENDED SOIL EROSION AND SEDIMENT CONTROL MEASURES

MEASURES SHOWN ARE TO DEFINE INTENT. ACTUAL MEASURES WILL BE IMPLEMENTED AS SITE CONDITIONS WARRANT BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL NEEDED CONTROL MEASURES TO PREVENT SOIL EROSION.

GENERAL MEASURES:

- DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE.
- INsofar AS PRACTICABLE, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
- SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE AREA AND DURATION OF SOIL DISRUPTION.
- PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED.

PARTICULAR MEASURES:

- IMMEDIATELY FOLLOWING COMPLETION OF ANY AND ALL OF THE PROPOSED STORM DRAIN INLETS, STORM DRAIN INLET PROTECTION SHALL BE CONSTRUCTED.
- DRAINAGE DITCH SEDIMENT FILTERS: UNTIL SUCH TIME AS FINAL SITE STABILIZATION IS COMPLETED, DITCHES SHALL RECEIVE TREATMENT WITH STONE CHECK DAMS SO AS TO EFFECTIVELY TRAP SEDIMENT AND MINIMIZE ITS RELEASE OFF-SITE. STONE CHECK DAMS SHALL BE CONSTRUCTED WITHIN EACH DITCH BEGINNING AT ITS DOWNSTREAM TERMINUS AND SHOULD NOT BE PLACED AT INTERVALS EXCEEDING 20 FEET.
- TOPSOIL AND FILL THAT IS TO REMAIN STOCKPILED ON-SITE FOR PERIODS GREATER THAN 14-DAYS SHALL BE STABILIZED BY SEEDING AND MULCHING. PROVIDE SILT FENCE EROSION CONTROL DOWNSLOPE OF SOIL STOCKPILE AREA.
- IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25 FEET OF ANY DITCH, STREAM, OR OTHER SURFACE WATER BODY.
- PERMANENT VEGETATIVE COVER: IMMEDIATELY FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
- ALL HEALTHY TREES OF DESIRABLE SPECIES ARE TO BE PROTECTED FROM DAMAGE. ALL UNNECESSARY REMOVAL OF HEALTHY TREES SHALL BE AVOIDED.
- THE CONTRACTOR IS TO ADHERE TO ALL REQUIREMENTS SET FORTH IN THE SWPPP.
- WETLAND PROTECTION FENCE SHALL BE INSTALLED ALONG THE PERIMETER OF WETLANDS PRIOR TO THE START OF CONSTRUCTION.

MAINTENANCE OF EROSION CONTROL MEASURES

THE DEVELOPER/CONTRACTOR OR THEIR BUILDER SHALL INSPECT AND MAINTAIN THE INTEGRITY AND FUNCTION OF ALL TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE DEVELOPMENT PROCESS. TO ASSURE PROPER FUNCTION, SILTATION BARRIERS SHALL BE MAINTAINED IN GOOD CONDITION AND REINFORCED, EXTENDED, REPAIRED OR REPLACED AS NECESSARY. WASHOUTS SHALL BE IMMEDIATELY REPAIRED, RE-SEED AND PROTECTED FROM FURTHER EROSION. ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND CONTAINED IN APPROPRIATE SPOIL AREAS. WATER SHALL BE APPLIED TO NEWLY SEEDED AREAS AS NEEDED UNTIL GRASS COVER IS WELL ESTABLISHED. TO EFFECTIVELY CONTROL WIND EROSION, WATER SHALL BE APPLIED TO ALL EXPOSED SOILS AS NECESSARY UNTIL GROUND COVER IS PERMANENTLY ESTABLISHED.

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THE RESIDENCES AT VAN DYKE ROAD, TOWN OF BETHELEHEM, ALBANY COUNTY, NEW YORK

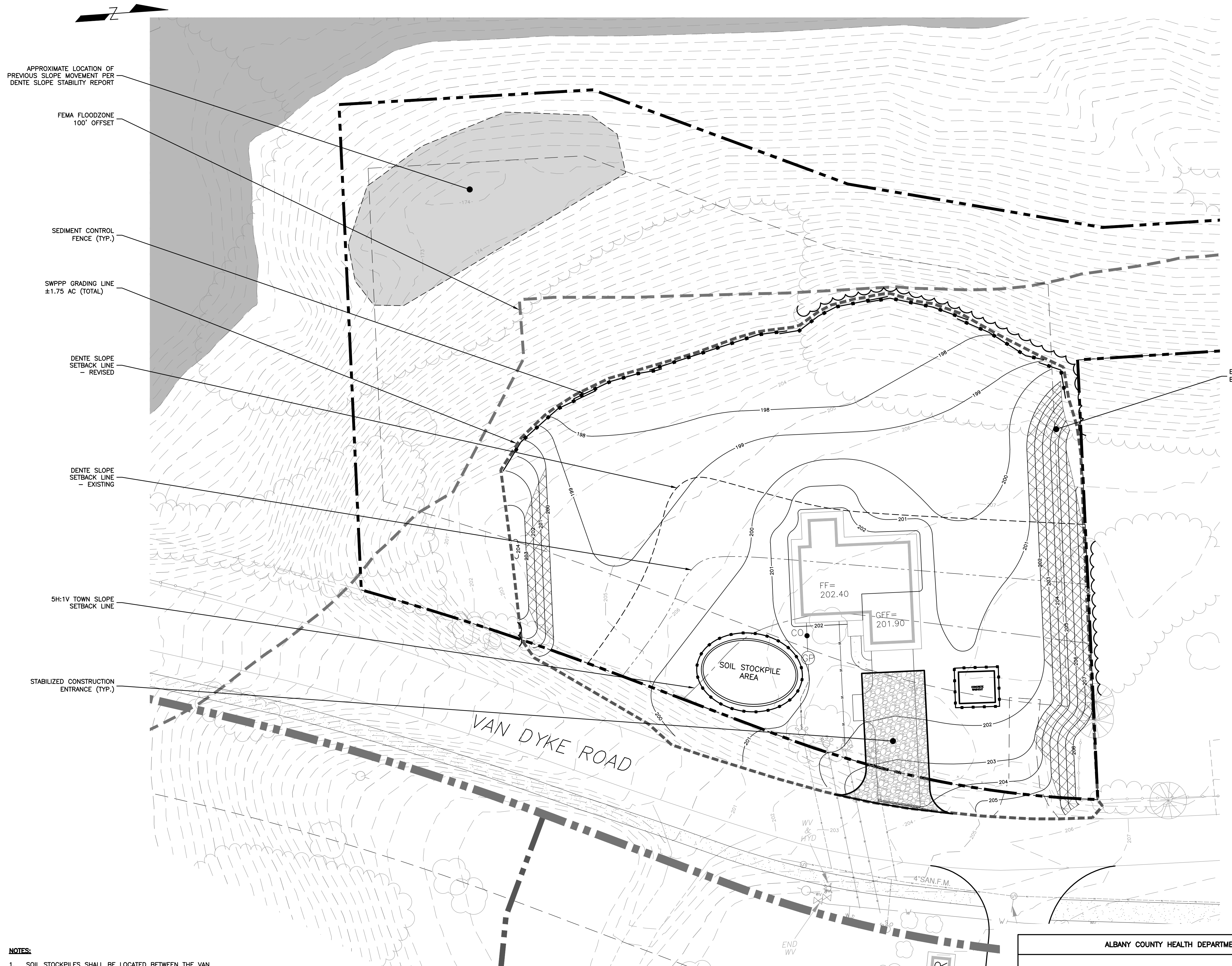
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 BETHELEHEM, NY 12018
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EROSION & SEDIMENT CONTROL PLAN (SOUTH)

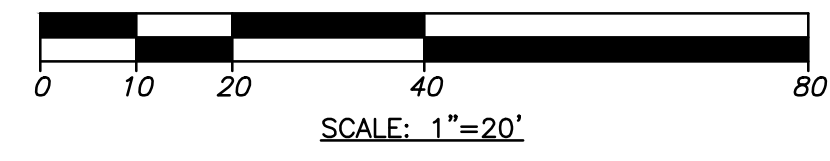
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ESCP-1
 SHEET 8 OF 12



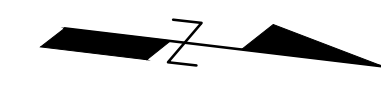
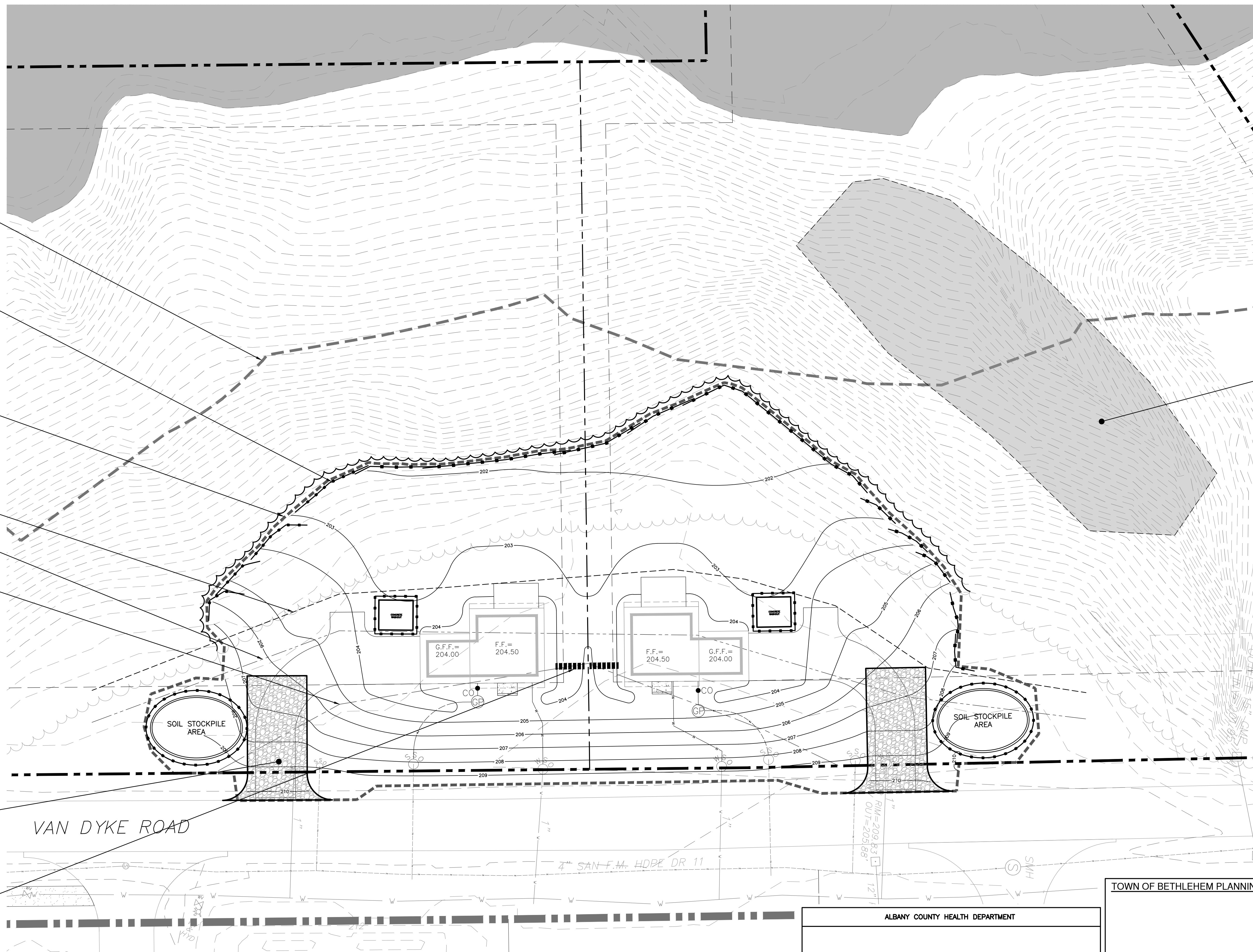
NOTES:
 1. SOIL STOCKPILES SHALL BE LOCATED BETWEEN THE VAN DYKE ROAD RIGHT-OF-WAY AND THE "DENTE SLOPE SETBACK LINE - REVISED".

LEGEND	
	ROLLED EROSION MATTING
	SEDIMENT CONTROL FENCE
	CHECK DAM



ALBANY COUNTY HEALTH DEPARTMENT

TOWN OF BETHELEHEM PLANNING BOARD



- NOTES:**
- SOIL STOCKPILES SHALL BE LOCATED BETWEEN THE VAN DYKE ROAD RIGHT-OF-WAY AND THE "DENTE SLOPE SETBACK LINE - REVISED".

APPROXIMATE AREA OF ACTIVE EROSION AND SLIDES IN DRAINAGE RAVINE PER DENTE SLOPE STABILITY REPORT

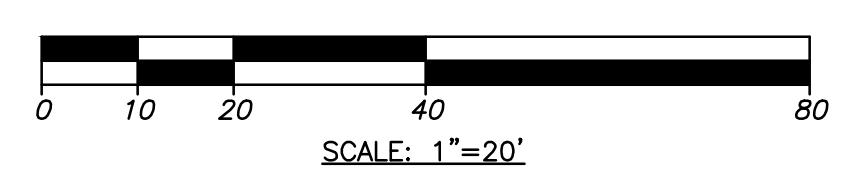
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- FEMA FLOODZONE 100' OFFSET
- SEDIMENT CONTROL FENCE (TYP.)
- SWPPP GRADING LINE ±1.75 AC (TOTAL)
- DENTE SLOPE SETBACK LINE - REVISED
- DENTE SLOPE SETBACK LINE - EXISTING
- 5H:1V TOWN SLOPE SETBACK LINE
- STABILIZED CONSTRUCTION ENTRANCE (TYP.)
- CHECK DAM (TYP.)

LEGEND

	ROLLED EROSION MATTING
	SEDIMENT CONTROL FENCE
	CHECK DAM

EROSION & SEDIMENT CONTROL PLAN (NORTH)



ALBANY COUNTY HEALTH DEPARTMENT

TOWN OF BETHLEHEM PLANNING BOARD

EROSION & SEDIMENT CONTROL PLAN (NORTH)

PROJ. NO: 764.03
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ESCP-2
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THE RESIDENCES AT VAN DYKE ROAD, TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

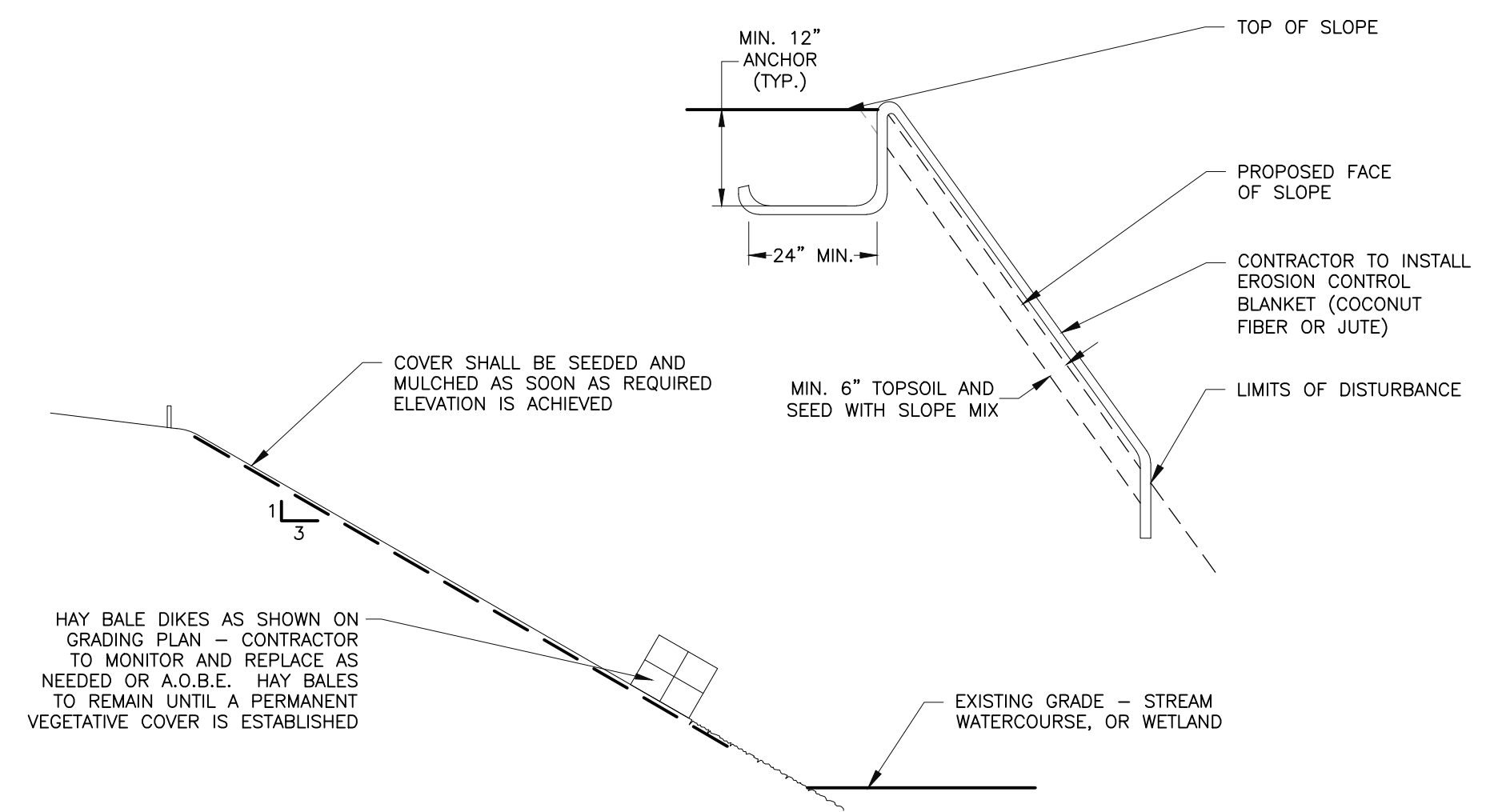
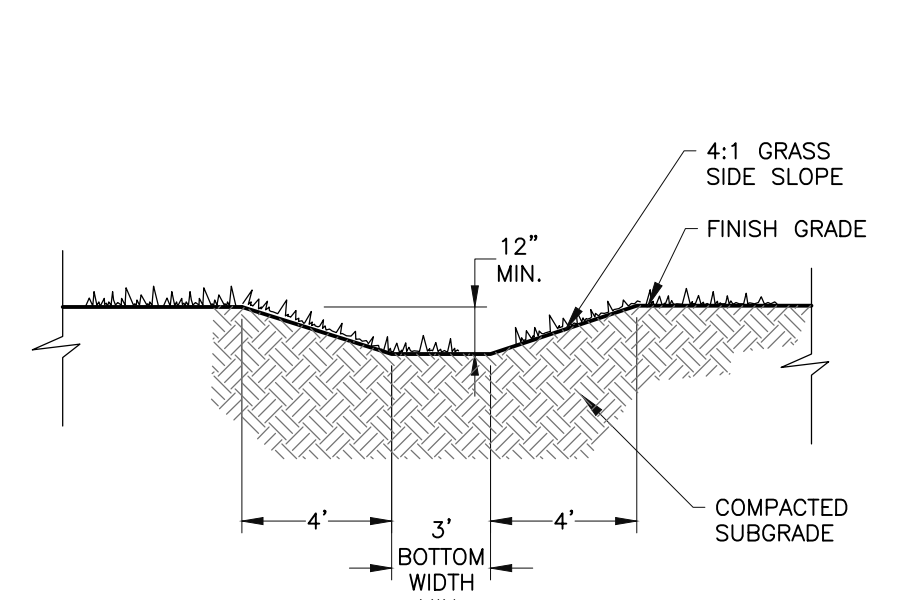


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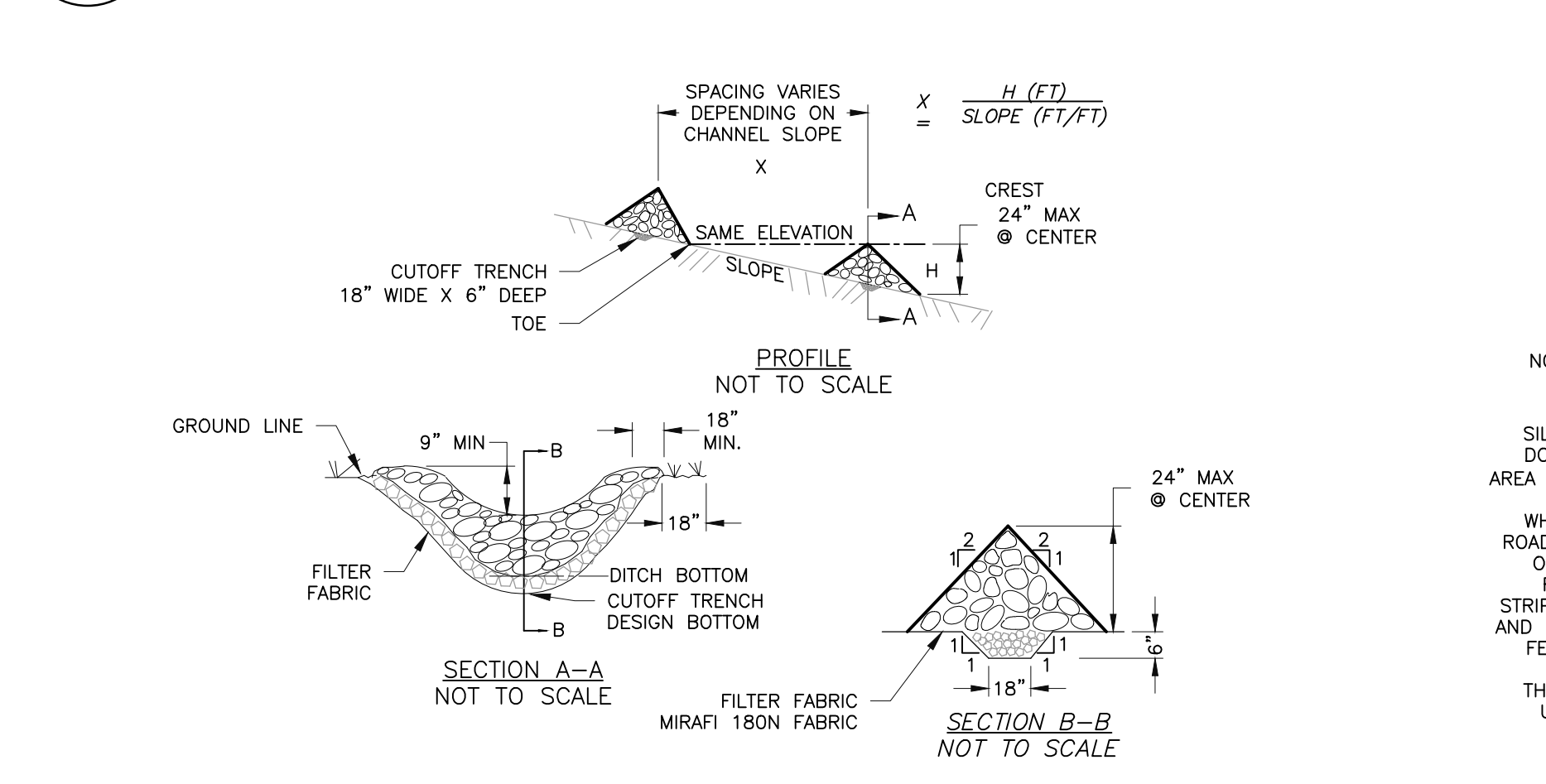
1 GRASS LINED SWALE

SCALE: NTS



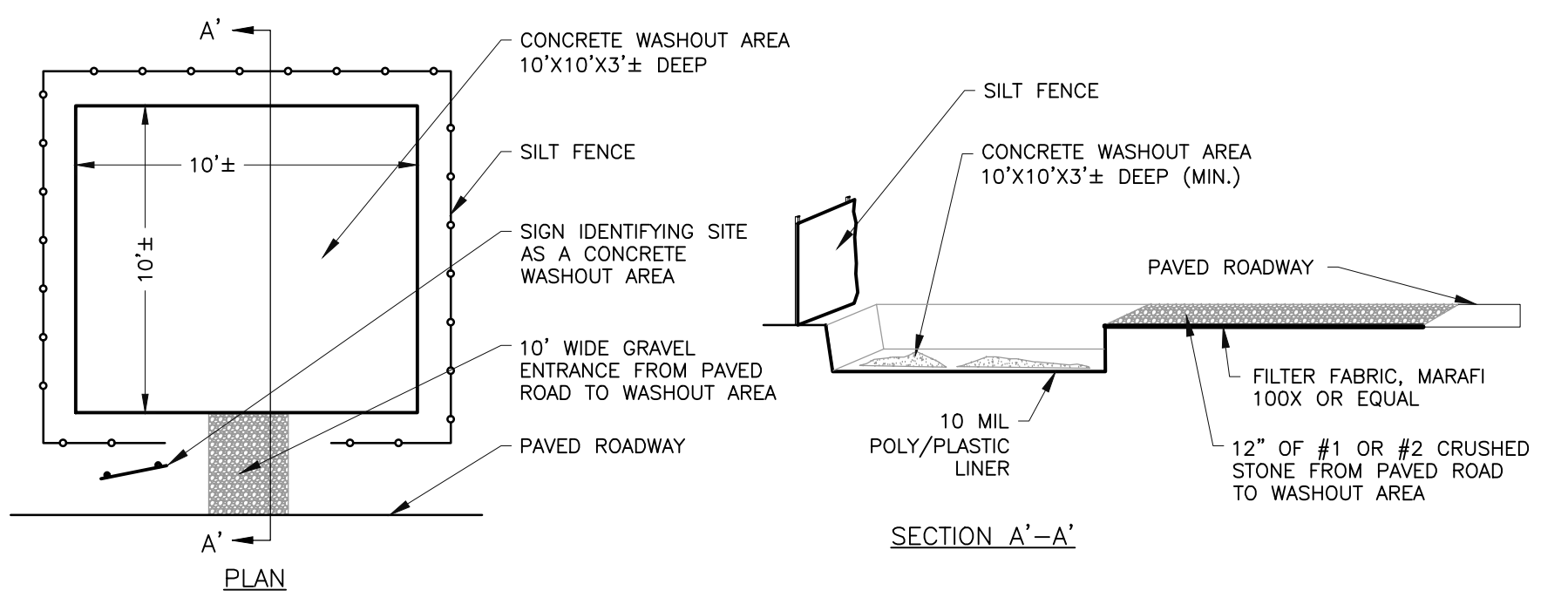
2 SLOPE STABILIZATION DETAIL

SCALE: NTS



3 CONCRETE WASHOUT AREA

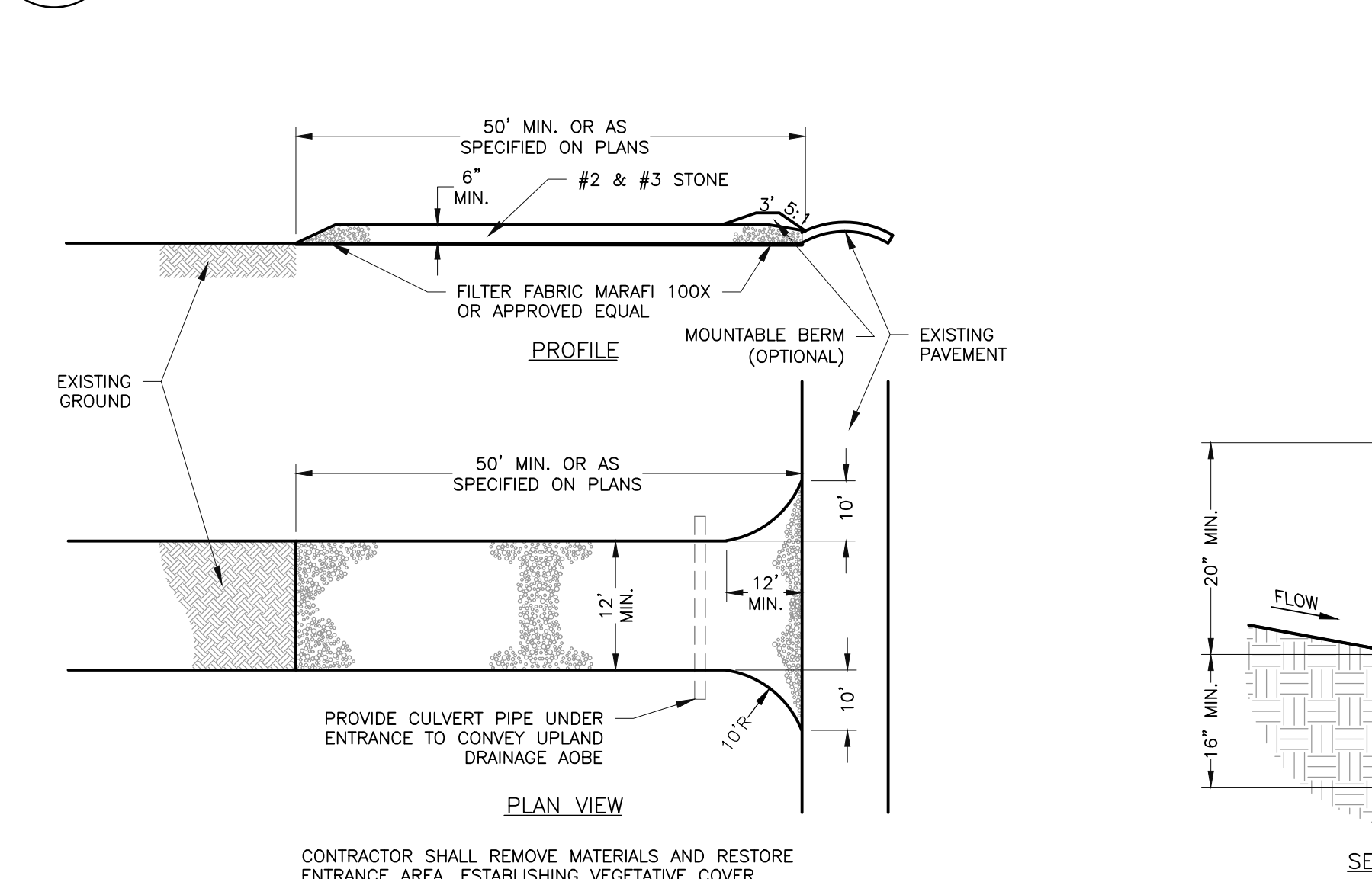
SCALE: NTS



- CONSTRUCTION SPECIFICATIONS**
1. CONCRETE WASHOUT LOCATION SHALL BE A MINIMUM OF 100' FROM SENSITIVE AREAS.
 2. THE BASIN DIMENSIONS DEPICTED ABOVE ARE REQUIRED MINIMUMS. CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. (APPROX. 60 GAL. OF WATER/WASTE PER TRUCK)
 3. PLASTIC LINING MATERIAL SHALL BE 10 MIL(MINIMUM) POLY SHEETING AND BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. LINER TO BE ANCHORED BEYOND THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, OR STONE.
 4. WASHOUT FACILITY MUST BE CLEANED OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
- MAINTENANCE AND CLEANING**
1. DO NOT DISCHARGE LIQUID OR SLURRY TO WATERWAYS, STORM DRAINS OR DIRECTLY ONTO GROUND.
 2. DO NOT USE SANITARY SEWER WITHOUT LOCAL APPROVAL.
 3. PLACE A SECURE NON-COLLAPSING, NON-WATER COLLECTING COVER OVER THE FACILITY PRIOR TO PREDICTED WET WEATHER TO PREVENT ACCUMULATION AND OVERFLOW.
 4. REMOVE AND DISPOSE OF HARDENED CONCRETE AND RETURN THE STRUCTURE TO A FUNCTIONAL STATE.
 5. INSPECT THE WASHOUT FACILITY FOR SIGNS OF WEAKENING OR DAMAGE AND REPAIR AS NECESSARY (RE-LINE THE STRUCTURE WITH NEW POLY SHEETING AFTER EACH CLEANING).

4 STONE CHECK DAM DETAIL

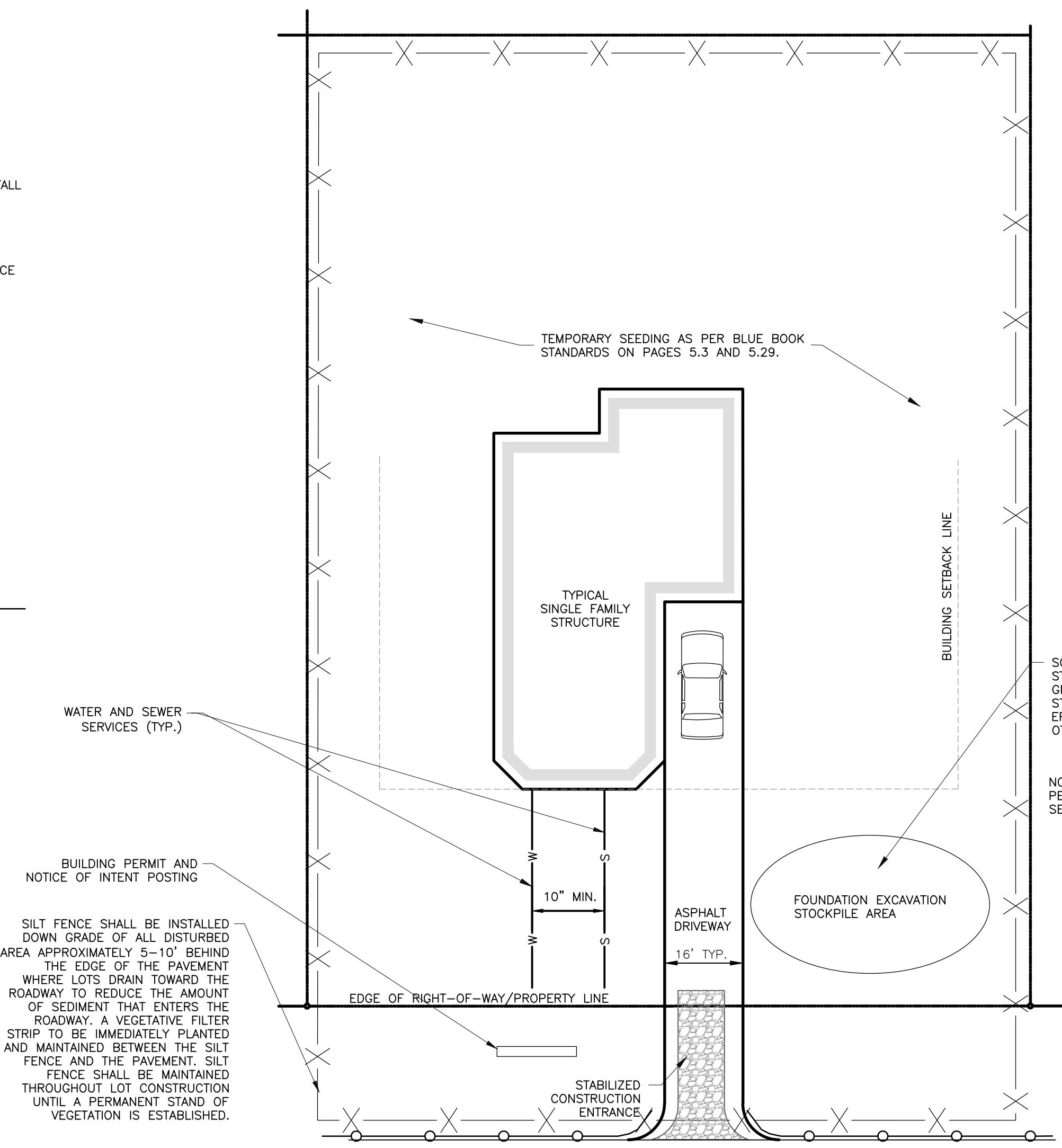
SCALE: NTS



- CONSTRUCTION SPECIFICATIONS**
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
 2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
 3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
 5. ENSURE THAT CHANNEL APERTURES SUCH AS CULVERT ENTRIES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA TWO (2) ACRES.

5 TYPICAL LOT LAYOUT & EROSION CONTROL

SCALE: NTS



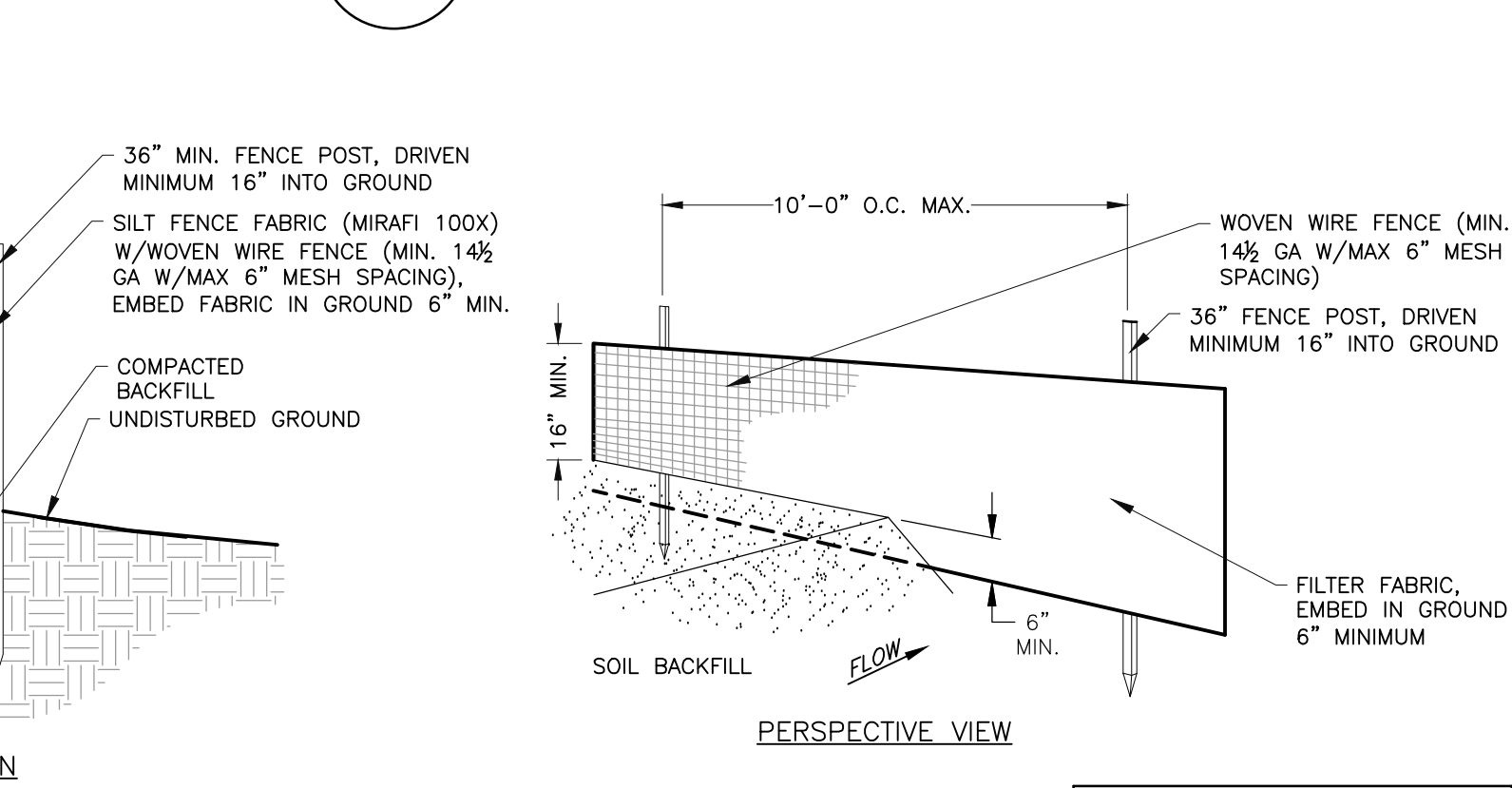
6 STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS

- NOTE:**
1. STONE SIZE - USE MIXTURE OF #2 & #3 STONE (1-4 INCHES), OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 2. LENGTH - NOT LESS THAN FIFTY (50) FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A THIRTY (30) FOOT MINIMUM LENGTH WOULD APPLY).
 3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 4. 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.
 5. GEOTEXTILE - 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 A 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.

7 SEDIMENT CONTROL FENCE

SCALE: NTS



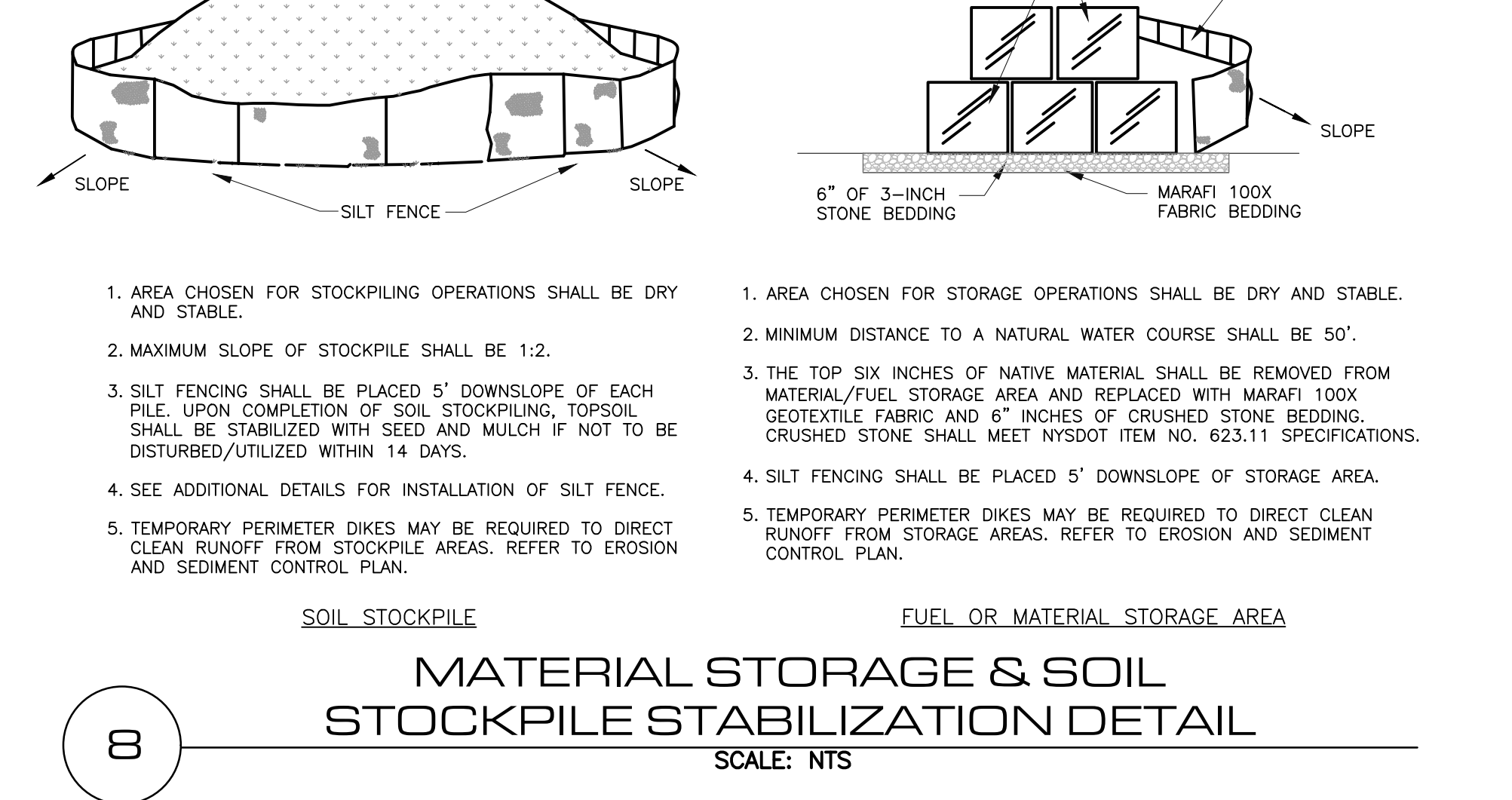
- CONSTRUCTION SPECIFICATIONS**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 125 GA, 6" MAXIMUM MESH OPENING.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
 5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SLOPE	STEEPNESS	SLOPE LENGTH/FENCE LENGTH (FT)		
		STANDARD	REINFORCED	SUPER
<2%	<50:1	300/1500	N/A	N/A
2-10%	50:1 TO 10:1	125/1000	250/2000	300/2500
10-20%	10:1 TO 5:1	100/750	150/1000	200/1000
20-33%	5:1 TO 3:1	60/500	80/750	100/1000
33-50%	3:1 TO 2:1	40/250	70/350	100/500
>50%	>2:1	20/125	30/175	50/250

STANDARD SILT FENCE (SF) IS FABRIC ROLLS STAPLED TO WOODEN STAKES DRIVEN 16" IN THE GROUND.
REINFORCED SILT FENCE (RSF) IS FABRIC PLACED AGAINST WELDED WIRE FABRIC WITH ANCHORED STEEL POSTS DRIVEN 16" IN THE GROUND.
SUPER SILT FENCE (SSF) IS FABRIC PLACED AGAINST CHAIN LINK FENCE AS SUPPORT BACKING WITH POSTS DRIVEN 3" IN THE GROUND.

8 MATERIAL STORAGE & SOIL STOCKPILE STABILIZATION DETAIL

SCALE: NTS



1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 3. SILT FENCING SHALL BE PLACED 5' DOWNSLOPE OF EACH PILE. UPON COMPLETION OF SOIL STOCKPILING, TOPSOIL SHALL BE STABILIZED WITH SEED AND MULCH IF NOT TO BE DISTURBED/UTILIZED WITHIN 14 DAYS.
 4. SEE ADDITIONAL DETAILS FOR INSTALLATION OF SILT FENCE.
 5. TEMPORARY PERIMETER DIKES MAY BE REQUIRED TO DIRECT CLEAN RUNOFF FROM STOCKPILE AREAS. REFER TO EROSION AND SEDIMENT CONTROL PLAN.
1. AREA CHOSEN FOR STORAGE OPERATIONS SHALL BE DRY AND STABLE.
 2. MINIMUM DISTANCE TO A NATURAL WATER COURSE SHALL BE 50'.
 3. THE TOP SIX INCHES OF NATIVE MATERIAL SHALL BE REMOVED FROM MATERIAL/FUEL STORAGE AREA AND REPLACED WITH MARAFI 100X GEOTEXTILE FABRIC AND 6" INCHES OF CRUSHED STONE BEDDING. CRUSHED STONE SHALL MEET NYSDOT ITEM NO. 623.11 SPECIFICATIONS.
 4. SILT FENCING SHALL BE PLACED 5' DOWNSLOPE OF STORAGE AREA.
 5. TEMPORARY PERIMETER DIKES MAY BE REQUIRED TO DIRECT CLEAN RUNOFF FROM STORAGE AREAS. REFER TO EROSION AND SEDIMENT CONTROL PLAN.

ALBANY COUNTY HEALTH DEPARTMENT

TOWN OF BETHLEHEM PLANNING BOARD

THE RESIDENCES AT VAN DYKE ROAD, TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK

EROSION & SEDIMENT CONTROL DETAILS

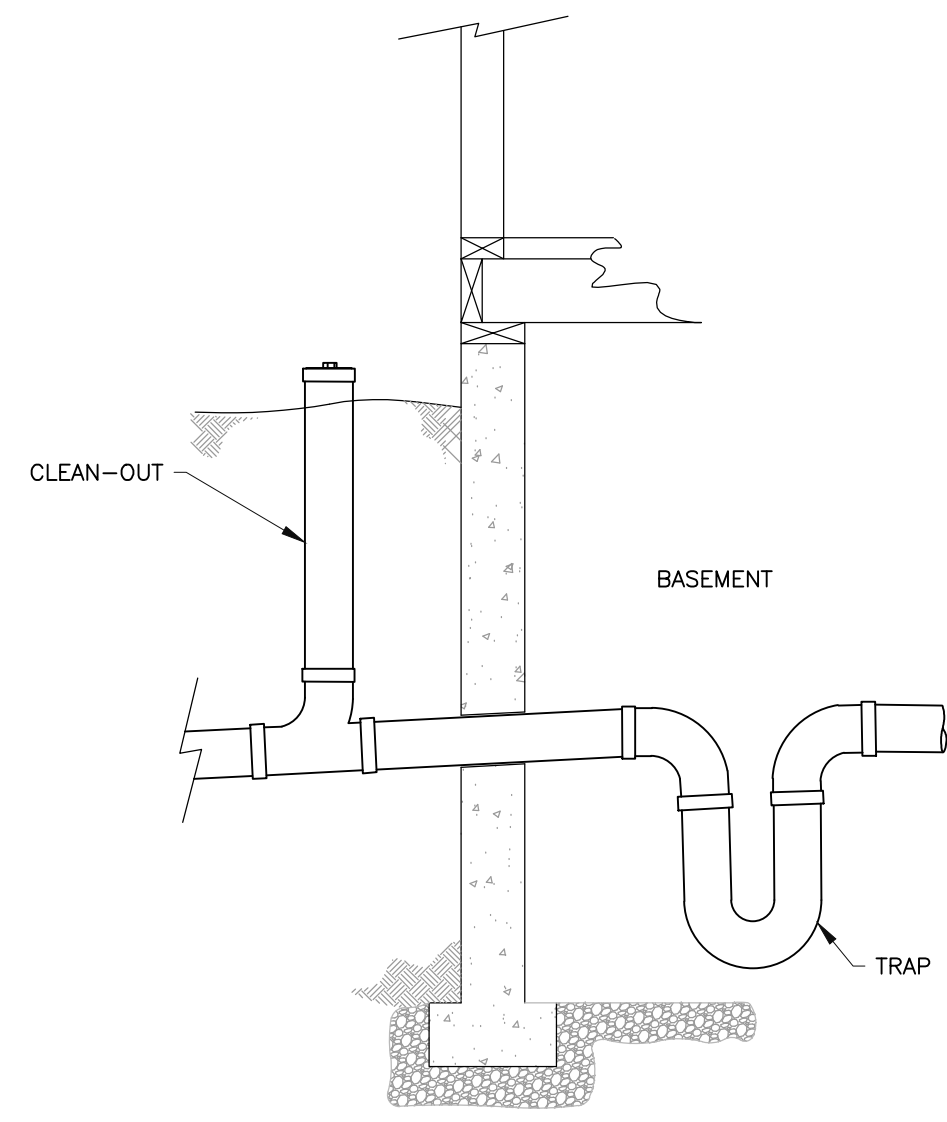
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DATE: 10/29/19
 REVISIONS RECORD/DESCRIPTION: REVISED PER TOWN ENGINEERING REVIEW COMMENTS
 DATE: 02/18/20
 REVISIONS PER TOWN & TDE COMMENTS: REVISED PER TOWN COMMENTS
 DATE: 10/07/20
 REVISIONS PER TOWN COMMENTS: REVISED PER TOWN COMMENTS

PROJ. NO: 764.03
 SCALE: AS SHOWN
 DATE: 05/07/17

DT-1
 SHEET 10 OF 12

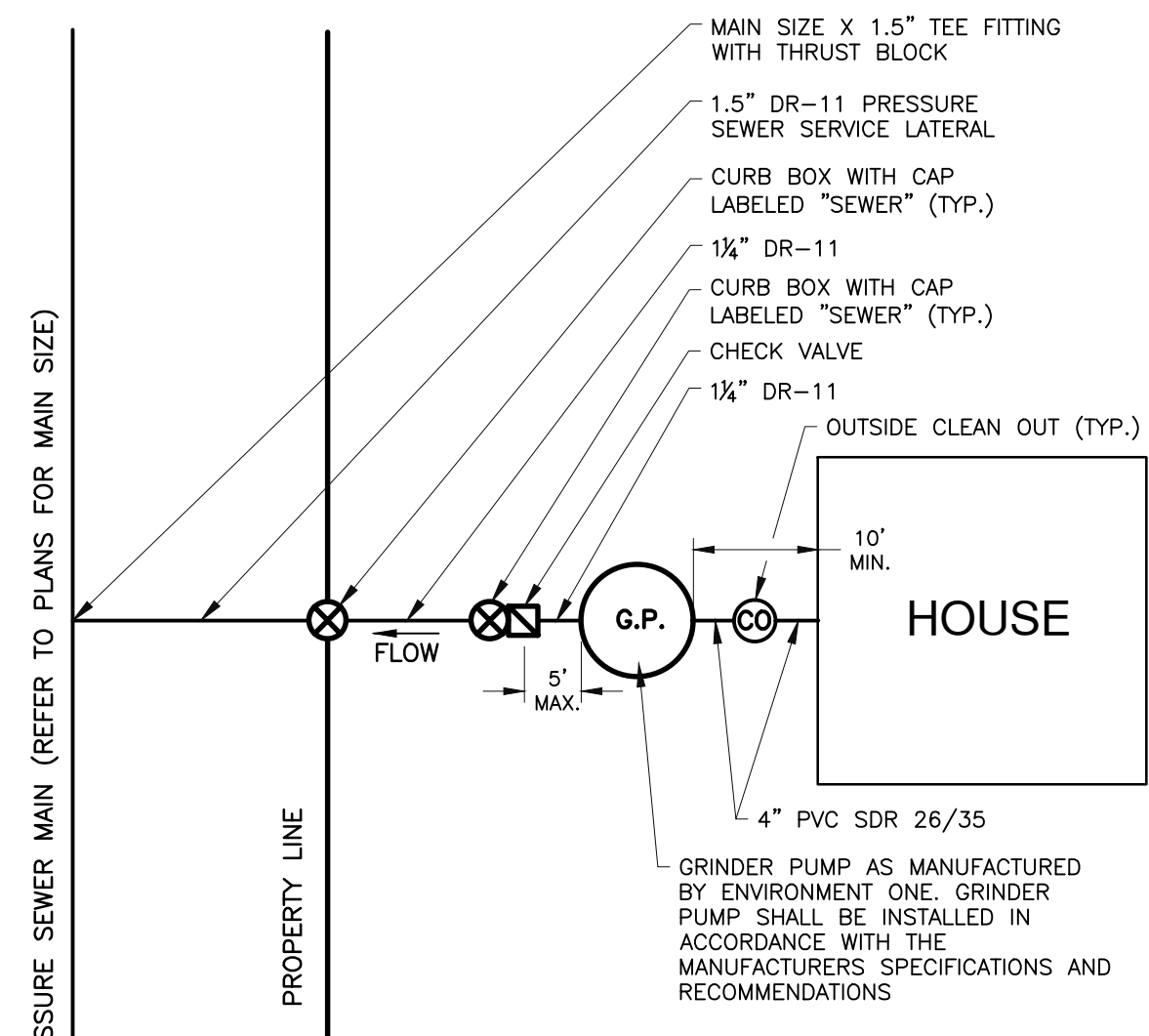
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**TRAP & CLEAN-OUT DETAIL
(ALL SEWER LATERALS)**

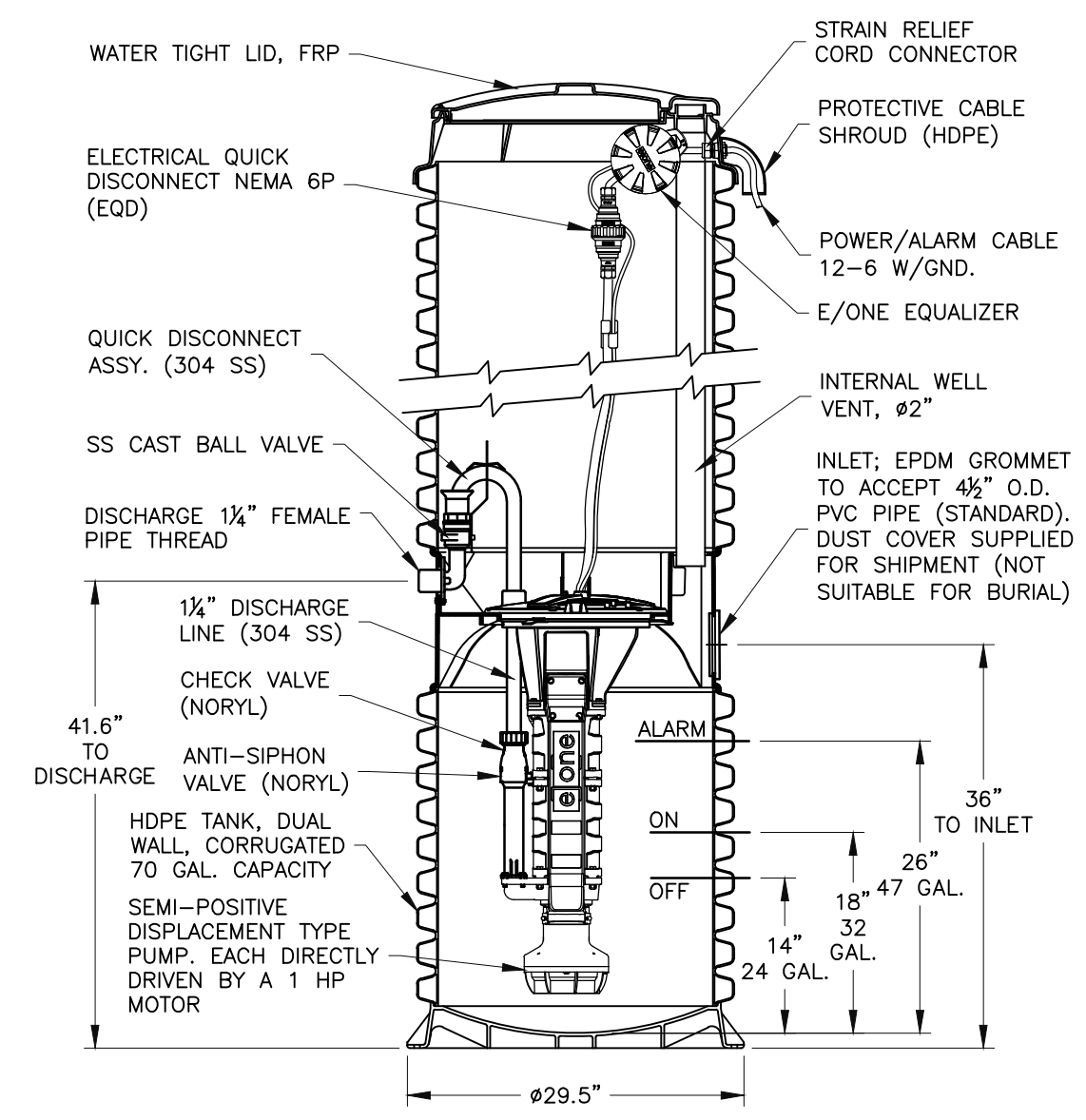
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SCALE: NTS



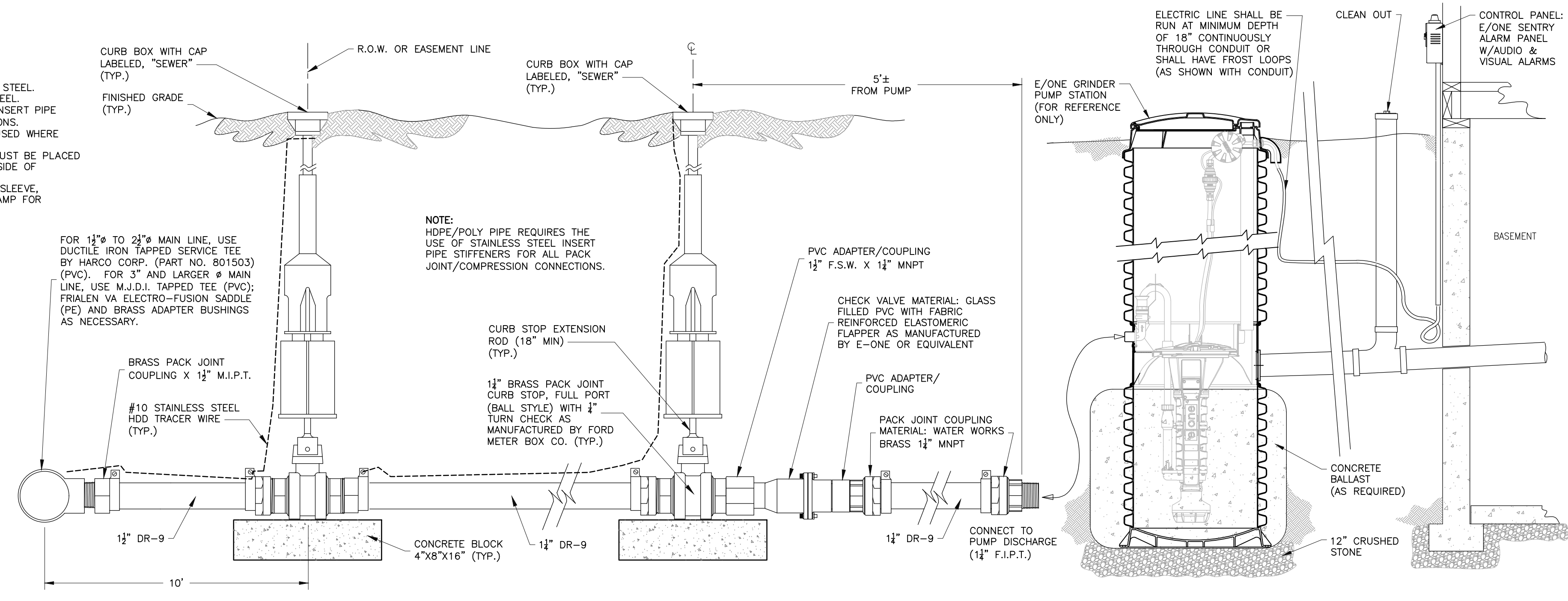
NOTE:
1. THE INDIVIDUAL OWNER SHALL ASSUME OWNERSHIP, MAINTENANCE AND POWER SUPPLY RESPONSIBILITIES FOR THE PROPOSED GRINDER PUMPS.
2. TWO CURB STOPS SHALL BE INSTALLED FOR EACH GRINDER PUMP SYSTEM.

MODEL: DH071



TYPICAL LATERAL INSTALLATION

NOTES:
- ALL COMPRESSION FITTINGS WILL BE BRASS OR STAINLESS STEEL.
- ALL CURB STOP EXTENSION RODS SHALL BE STAINLESS STEEL.
- HDPE/PVC PIPE REQUIRES THE USE OF STAINLESS STEEL INSERT PIPE STIFFENERS FOR ALL PACK JOINT/COMPRESSION CONNECTIONS.
- STAINLESS STEEL OR BRASS DRESSER COUPLINGS TO BE USED WHERE EXISTING LINE IS CUT FOR TEE.
- WHEN CONNECTING TO EXISTING FORCEMAIN, CURB STOP MUST BE PLACED AS CLOSE AS POSSIBLE TO EXISTING FORCEMAIN AND OUTSIDE OF PAVEMENT WITH VALVE BOX.
- TIE-IN SADDLE TO BE STAINLESS STEEL BANDED TAPPING SLEEVE, BANDED REPAIR SERVICE SADDLE, FULL CIRCLE REPAIR CLAMP FOR TAPPING BY SMITH BLAIR OR APPROVED EQUAL.
- CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FLOW.



NOTES:
- THE PROPERTY OWNER WILL OWN AND MAINTAIN THE GRINDER PUMP SYSTEM TO POINT OF CONNECTION INTO SEWER MAIN.
- CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING FLOW AND FINAL GRINDER PUMP START UP.
- ALL FITTINGS ON PRESSURE SIDE OF GRINDER PUMP SHALL BE BRASS OR STAINLESS STEEL.
- ALL FORCEMAIN SANITARY SEWER LINES SHALL BE AT A DEPTH OF 5' OR GREATER. IF DEPTH IS LESS THAN 5', LINE SHALL BE INSULATED. (SEE SARATOGA COUNTY SEWER DISTRICT #1 TRENCH DETAIL).
- ALL GRAVITY SANITARY SEWER LINES SHALL BE AT A DEPTH OF 4' OR GREATER. IF DEPTH IS LESS THAN 4', LINE SHALL BE INSULATED. (SEE SARATOGA COUNTY SEWER DISTRICT #1 TRENCH DETAIL).
- THE GRAVITY SEWER LATERAL SHALL BE LAID AT A UNIFORM GRADE OF 1/4" FT. (ABOUT 2%).
- CONTROL PANEL WITH VISUAL AND AUDIBLE ALARMS SHALL ONLY HAVE BOTTOM PENETRATIONS WITH NEMA 4X RATED FITTINGS.
- CONTROL PANEL SHALL BE AT A MINIMUM OF 36" ABOVE GRADE.
- PER 2014 NATIONAL ELECTRIC CODE ARTICLE 430, THE CONTROL PANEL SHALL BE LOCATED IN SIGHT OF THE GRINDER PUMP.
- FINISHED GRADE SHALL DRAIN AWAY FROM GRINDER PUMP.
- TANK SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

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TYPICAL EXTERNAL GRINDER PUMP LAYOUT

THE RESIDENCES AT VAN DYKE ROAD, TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK
LANSING ENGINEERING
 7 THEMPLE PLAZA, SUITE 600
 BETHLEHEM, NY 12018
 (518) 898-5823

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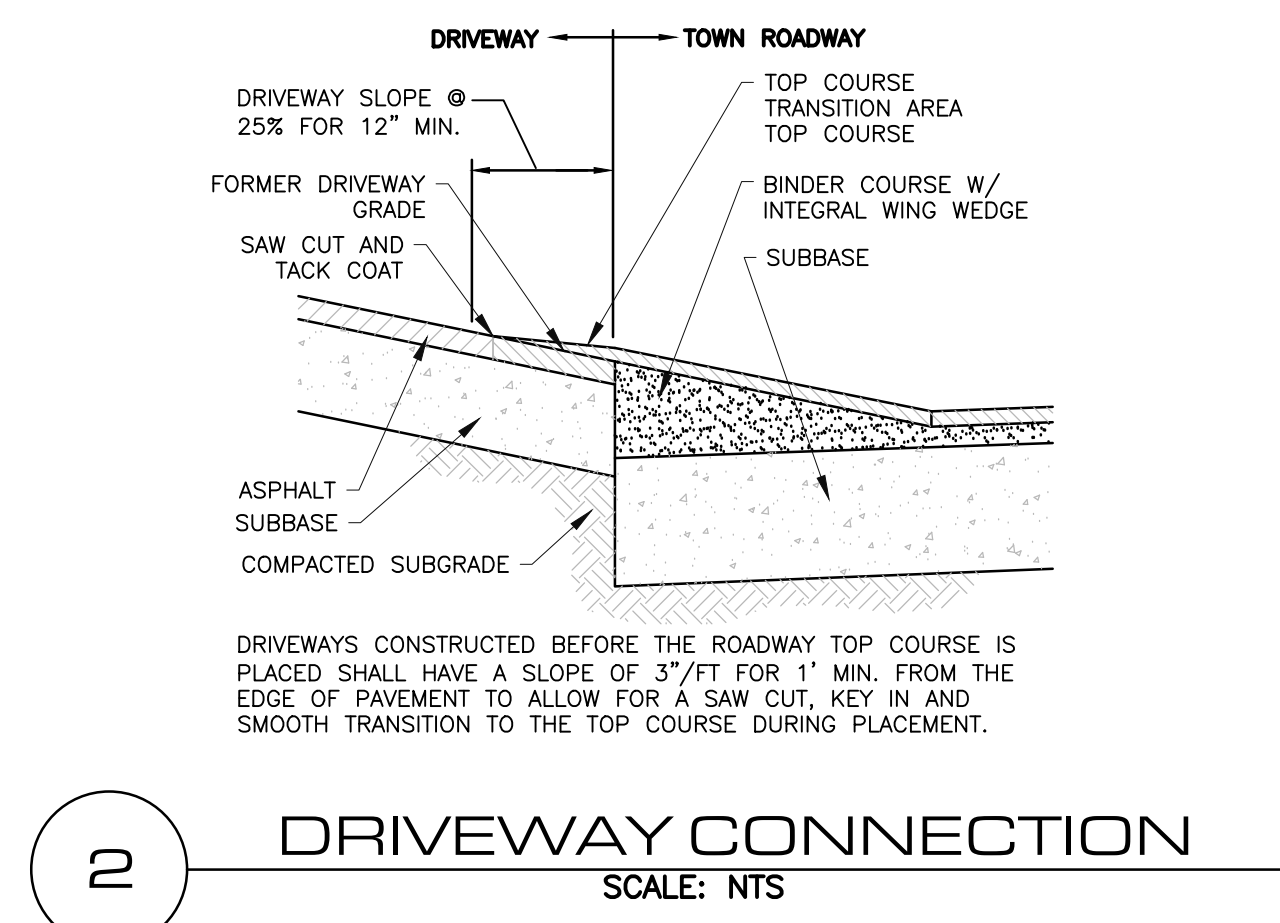
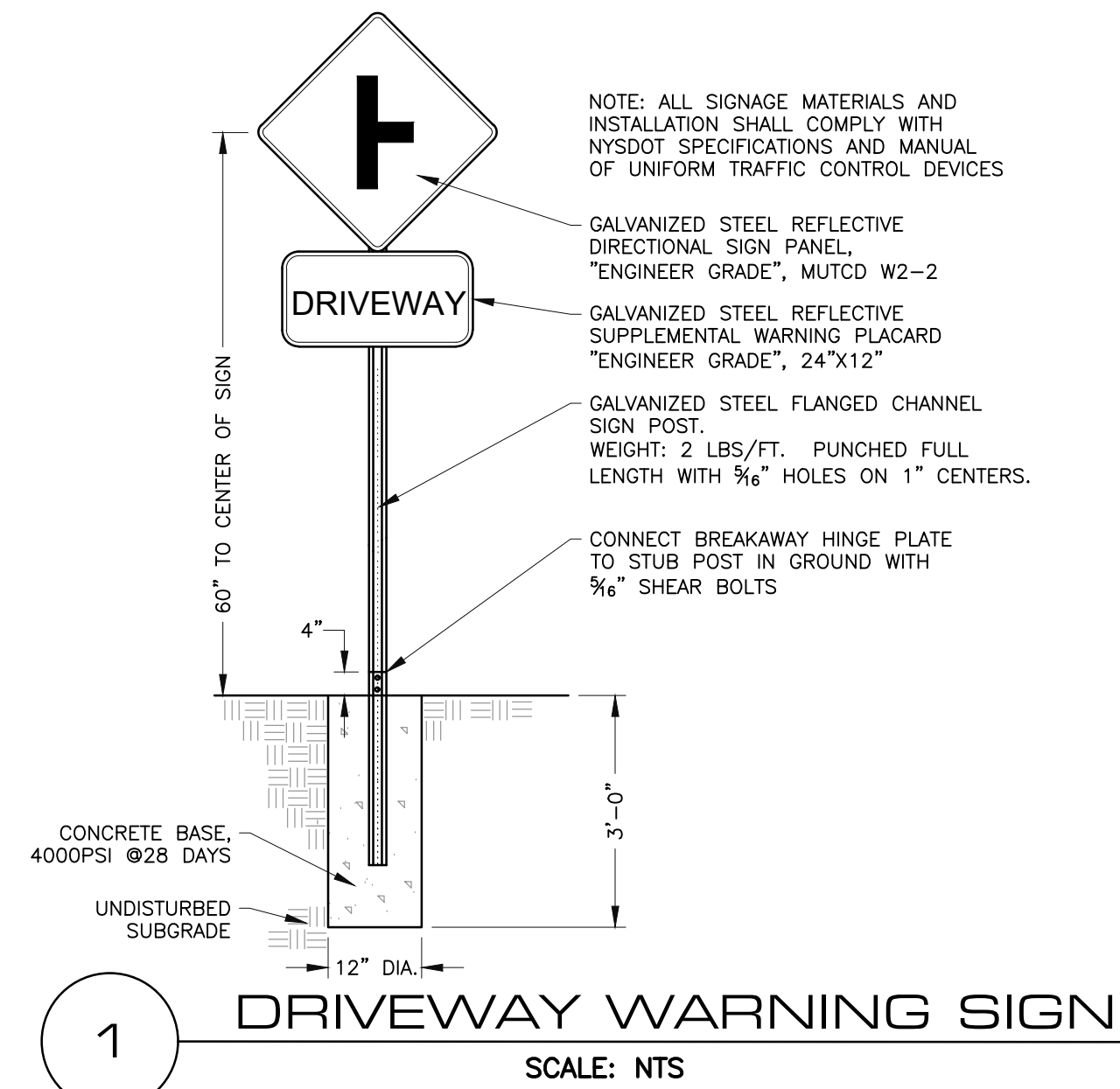
ALBANY COUNTY HEALTH DEPARTMENT

TOWN OF BETHLEHEM PLANNING BOARD

SANITARY SEWER SYSTEM DETAILS

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ALBANY COUNTY HEALTH DEPARTMENT

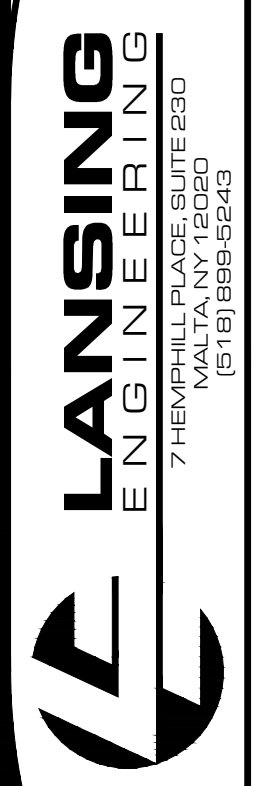
TOWN OF BETHLEHEM PLANNING BOARD

MISCELLANEOUS SITE DETAILS

PROJ. NO: 764.03
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THE RESIDENCES AT VAN DYKE MINOR SUBDIVISION
VAN DYKE ROAD, TOWN OF BETHLEHEM, ALBANY COUNTY, NEW YORK



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