

SITE COVERAGE CALCULATION (AS OF MAY 1, 2019)

BUILDING: 618 S.F. 2%
CONCRETE: 669 S.F. 2%
COMPACTED
GRAVEL/STONE: 30,490 S.F. 91%
VEGETATION: 1,605 S.F. 5%
TOTAL LOT AREA: 33,382 S.F. 100%

PROPOSED COVERAGE CALCULATION:

BUILDINGS: 3,404 S.F. 10.2%
IMPERVIOUS SURFACES: 1,853 S.F. 5.5%
COMPACTED STONE/GRAVEL: 15,348 S.F. 46.0%
VEGETATED AREAS: 12,777 S.F. 38.3%
33,382 S.F. 100.00%

SITE DATA:

APPLICANT / OWNER
IMT, LLC
4165 BIRCHWOOD LANE
MECHANICSBURG, PA 17055
PHONE: (717) 443-5660
CONTACT PERSON: BILL RUCUSIE

2. THE SITE IS ZONE C-2: GENERAL COMMERCIAL DISTRICT.

3. SITE IS TAX PARCEL #13-25-0024-005.

4. SITE ADDRESS IS 1025 AUDUBON ROAD, MECHANICSBURG.

5. TOTAL SITE AREA: 33,382 SQUARE FEET, OR 0.77 ACRE

6. PROPOSED USE: 618 SQUARE FOOT OFFICE BUILDING (BUILDING IS EXISTING) FOR A CONTRACTOR WITH 2,785 SQUARE FOOT PROPOSED POLE BUILDING FOR EQUIPMENT STORAGE: NAICS CATEGORY NO. 23.

7. REQUIRED OFF-STREET PARKING:
ONE SPACE FOR EVERY 200 CROSS SQUARE FEET OF OFFICE, EQUALS 618 GROSS FLOOR AREA PROVIDED.

8. PROPOSED IMPERVIOUS LOT COVERAGE: (INCLUDES GRAVEL SURFACING) 20,605 SQUARE FEET, OR 61.7%

9. EXISTING AND PROPOSED LOT WIDTH AT STREET LINE: 160.65 FEET

10. EXISTING AND PROPOSED WATER: PUBLIC (EXISTING LATERAL)

11. EXISTING AND PROPOSED SEWER: PUBLIC (EXISTING LATERAL)

12. EXISTING AND PROPOSED NUMBER OF LOTS: 1

ZONING DATA:

THE SITE IS ZONED C-2 GENERAL COMMERCIAL DISTRICT.

MINIMUM LOT AREA: NONE

MINIMUM LOT WIDTH: 50 FEET

MINIMUM FRONT YARD: 30 FEET

MINIMUM SIDE YARD: 10 FEET

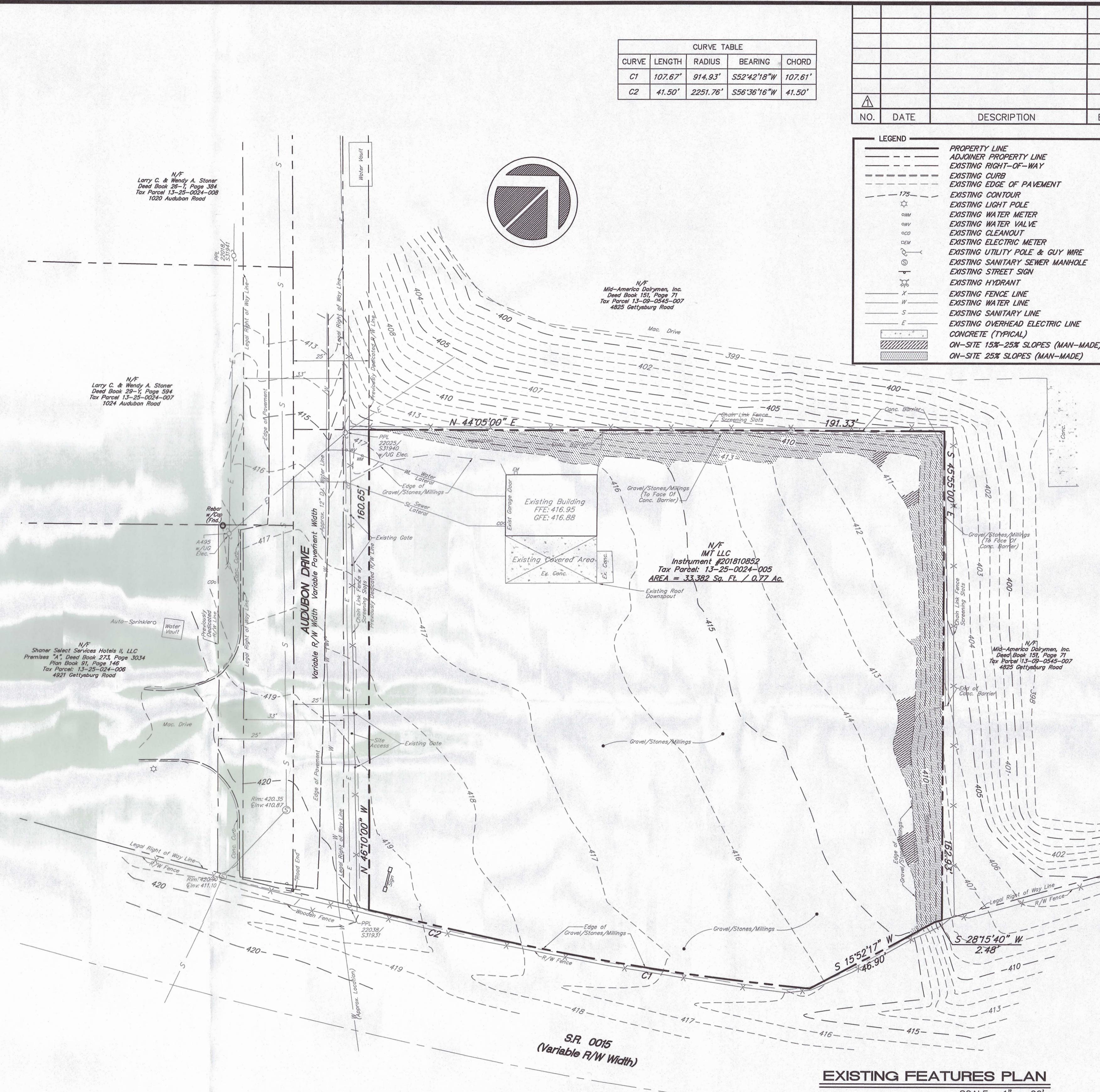
MINIMUM REAR YARD: 35 FEET

MAXIMUM IMPERVIOUS COVERAGE: 70%

MAXIMUM BUILDING HEIGHT: 75 FEET

GENERAL NOTES:

1. THE PURPOSE OF THIS PLAN IS TO CONSTRUCT A STORAGE BUILDING, ADD REQUIRED PARKING AND DRIVEWAY, AND CONVERT SOME COMPACTED GRAVEL AREA TO PERVERSIVE AREA/TURFGRASS. THIS PLAN IS A MINOR REVISION TO THE PLAN APPROVED BY LOWER ALLEN TOWNSHIP ON OCTOBER 28, 2019 AND RECORDED IN INSTRUMENT #201930589 ON 12/13/2019. THIS PLAN CHANGES THE ORIENTATION OF THE STORAGE BUILDING.
2. THE EXISTING ON-SITE SITE FEATURES DEPICTED HEREON ARE FROM A FIELD SURVEY PERFORMED BY ALPHA CONSULTING ENGINEERS, INC. COMPLETED APRIL 8, 2019. THE SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF A TITLE PACKAGE.
3. VERTICAL DATUM (NAVD88) WAS ESTABLISHED BY GPS OPERATION. HORIZONTAL DATUM WAS ESTABLISHED BY PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (NAD83), SOUTH ZONE 3702.
4. NO PORTION OF THIS SITE LIES WITHIN THE 100-YEAR FLOOD PLAIN, REFERENCED AS ZONE X, AS DETERMINED BY FEDERAL EMERGENCY MANAGEMENT AGENCY, TAKEN FROM FLOOD INSURANCE RATE MAP PANEL 279 OF 480, MAP NUMBER 42041C0279E, BEARING AN EFFECTIVE DATE OF MARCH 16, 2008.
5. ALL SOIL MAPPED BY NRCS FOR THIS SITE IS HAGERSTOWN SILT LOAM, ROCKY, 3 TO 8 PERCENT SLOPES.
6. THE LOCATIONS OF EXISTING UTILITIES SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR VERIFICATION OF SERVICE LOCATIONS PRIOR TO EXCAVATING.
7. THERE ARE NO WETLANDS ON THIS SITE.
8. NO LANDS OR FACILITIES ARE PROPOSED FOR DEDICATION TO PUBLIC USE.
9. THIS PROJECT SHALL BE COMPLETED IN ONE PHASE, POSSIBLY BEGINNING IN SUMMER OR AUTUMN 2020.
10. PROPERTY CORNERS THAT AREA EASILY PHYSICALLY ACCESSIBLE SHALL BE MARKED WITH IRON PINS WITH A MINIMUM LENGTH OF 20', LOCATED IN THE GROUND TO EXISTING GRADE.
11. A RIGHT-OF-WAY PERMIT IS REQUIRED BEFORE STARTING ANY WORK WITHIN THE PUBLIC STREET RIGHT-OF-WAY.
12. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS. ALL PAVEMENT MARKINGS SHALL BE HOT THERMOPLASTIC.
13. LOT OWNER IS REQUIRED TO MAINTAIN LOT GRADING AND SURFACE DRAINAGE PATTERNS AND CHARACTERISTICS IN ACCORDANCE WITH THE APPROVED PLAN.
14. LOT OWNER SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF SOIL EROSION CONTROL MEASURES; REFER TO SHEET 4 FOR CONTROL MEASURES.
15. CONSTRUCTION OF ALL WORK WITHIN THE PUBLIC STREET RIGHT-OF-WAY AND WORK RELATED TO STORM DRAINAGE FACILITIES REQUIRES INSPECTION BY THE TOWNSHIP. PROVIDE A MINIMUM 48 HOURS NOTICE TO THE TOWNSHIP BEFORE STARTING WORK.
16. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION SITE MEETING WITH THE TOWNSHIP ENGINEER AT LEAST 48 HOURS PRIOR TO STARTING SITE CONSTRUCTION ACTIVITIES.
17. SITE DISTURBANCE IS PERMITTED TO START ONLY IF AND WHEN SUFFICIENT TIME IS AVAILABLE TO STABILIZE DISTURBED AREAS IN ACCORDANCE WITH PA DEP REQUIREMENTS AND WITH THE APPROVED PLAN.
18. AS OF THE DATE OF THIS PLAN RECORDING, NO ADDITIONAL SEWAGE FLOWS HAVE BEEN APPROVED BY LOWER ALLEN TOWNSHIP OR THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PA DEP), OTHER THAN FLOWS PREVIOUSLY APPROVED FOR THE EXISTING USE. NO PERMIT WILL BE ISSUED FOR ANY ADDITIONAL INSTALLATION, CONSTRUCTION, CONNECTION TO OR USE OF ANY SEWAGE COLLECTION, CONVEYANCE, TREATMENT OR DISPOSAL SYSTEM (EXCEPT FOR REPAIRS TO EXISTING SYSTEMS) UNLESS LOWER ALLEN TOWNSHIP AND THE PA DEP HAVE BOTH APPROVED SEWAGE FACILITIES PLANNING IN ACCORDANCE WITH THE PENNSYLVANIA FACILITIES ACT (35 P.S. SECTIONS 750.1 ET. SEQ.) AND REGULATIONS PROMULGATED THEREUNDER.
19. APPLICANT AND OWNER ACKNOWLEDGE THAT CERTAIN PROPOSED SITE IMPROVEMENTS DEPICTED ON THIS PLAN, INCLUDING BUT NOT LIMITED TO ACCESSIBLE PARKING SPACES, ACCESSIBLE ROUTE TO THE BUILDING AND FREESTANDING SIGNS, THAT REQUIRE APPROVAL UNDER REGULATIONS CONTAINED IN THE UNIFORM CONSTRUCTION CODE AND/OR THE LOWER ALLEN TOWNSHIP ZONING CODE MUST BE INSTALLED IN ACCORDANCE WITH SEPARATE PERMIT APPROVALS GRANTED UNDER THOSE REGULATIONS.



CURVE TABLE			
CURVE	LENGTH	RADIUS	BEARING
C1	107.67'	914.93'	S52°42'8"W 107.61'
C2	41.50'	2251.76'	S56°36'16"W 41.50'

NO.	DATE	DESCRIPTION	BY

LEGEND	
PROPERTY LINE	ADJACENT PROPERTY LINE
EXISTING CURB	EXISTING RIGHT-OF-WAY
EXISTING EDGE OF PAVEMENT	EXISTING CURB
EXISTING CONTOUR	EXISTING EDGE OF PAVEMENT
EXISTING LIGHT POLE	EXISTING CONTOUR
EXISTING WATER METER	EXISTING LIGHT POLE
EXISTING VALVE	EXISTING WATER METER
EXISTING CLEANOUT	EXISTING VALVE
EXISTING ELECTRIC METER	EXISTING CLEANOUT
EXISTING UTILITY POLE & GUY WIRE	EXISTING ELECTRIC METER
EXISTING SANITARY SEWER MANHOLE	EXISTING UTILITY POLE & GUY WIRE
EXISTING STREET SIGN	EXISTING SANITARY SEWER MANHOLE
EXISTING HYDRANT	EXISTING STREET SIGN
EXISTING FENCE LINE	EXISTING HYDRANT
EXISTING WATER LINE	EXISTING FENCE LINE
EXISTING SANITARY LINE	EXISTING WATER LINE
EXISTING OVERHEAD ELECTRIC LINE	EXISTING SANITARY LINE
CONCRETE (TYPICAL)	EXISTING OVERHEAD ELECTRIC LINE
ON-SITE 15% SLOPES (MAN-MADE)	CONCRETE (TYPICAL)
ON-SITE 25% SLOPES (MAN-MADE)	ON-SITE 15% SLOPES (MAN-MADE)

DESIGN : T.C.S.
DRAWN : S.R.R.
CHECKED : J.K.M.
DATE : 5/15/2020

PLANNING • ENGINEERING • SURVEYING
15 LINEMAN RD, P.O. BOX 41
NEW CUMBERLAND, PA 17070
PHONE: (717) 770-2500
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WWW.ALPHAEI.COM

ALPHA
CONSULTING
ENGINEERS, INC.

SEAL
SEAL
SEAL
SEAL

PRELIMINARY/FINAL LAND DEVELOPMENT PLAN
COVER SHEET AND EXISTING FEATURES PLAN
FOR
IMT, LLC REVISED PLAN
1025 AUDUBON ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF YORK

ON THIS, the 14th day of July 2020, BEFORE ME, THE UNDERSIGNED,
PERSONALLY APPEARED, WILLIAM RUCUSIE, BEING PRESIDENT OF IMT, LLC,

AND SWORN TO, ACCORDING TO LAW, DEPOSES AND SAYS THAT HE IS THE OWNER OF
THE PROPERTY SHOWN ON THIS PLAN, THAT THE PLAN THEREOF WAS MADE AT HIS DIRECTION,
THAT IT ACKNOWLEDGES THE SAME TO BE HIS ACT AND PLAN AND DESIRES THE SAME TO BE
RECORDED, AND THAT ALL STREETS AND OTHER PROPERTY IDENTIFIED AS PROPOSED PUBLIC
PROPERTY (EXCEPTING THOSE AREAS LABELED "NOT FOR DEDICATION") ARE HEREBY DEDICATED
TO THE PUBLIC USE.

Will J. Rucusie
Danielle M. Naimus

REVIEWED THIS 20th DAY OF July 2020 BY THE
CUMBERLAND COUNTY PLANNING DEPARTMENT.

Visionary J.D.A.

DIRECTOR OF PLANNING

REVIEWED THIS 22nd DAY OF JUNE 2020
CONDITIONS OF APPROVAL COMPLETED THIS 27th DAY OF

JULY 2020

APPROVED THIS 22nd DAY OF JUNE 2020

APPROVED BY THE BOARD OF COMMISSIONERS, LOWER ALLEN TOWNSHIP,
CUMBERLAND COUNTY, PA.

APPROVED THIS 22nd DAY OF JUNE 2020

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CUMBERLAND COUNTY, PA.</



NO.	DATE	DESCRIPTION	BY

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DRAWN : S.R.R.
CHECKED : J.K.M.
DATE : 5/15/2020

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PRELIMINARY/FINAL LAND DEVELOPMENT PLAN
FOR
IMT, LLC REVISED PLAN
1025 AUDUBON ROAD
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PENNSYLVANIA

SEAL

PROJECT NO.
319516

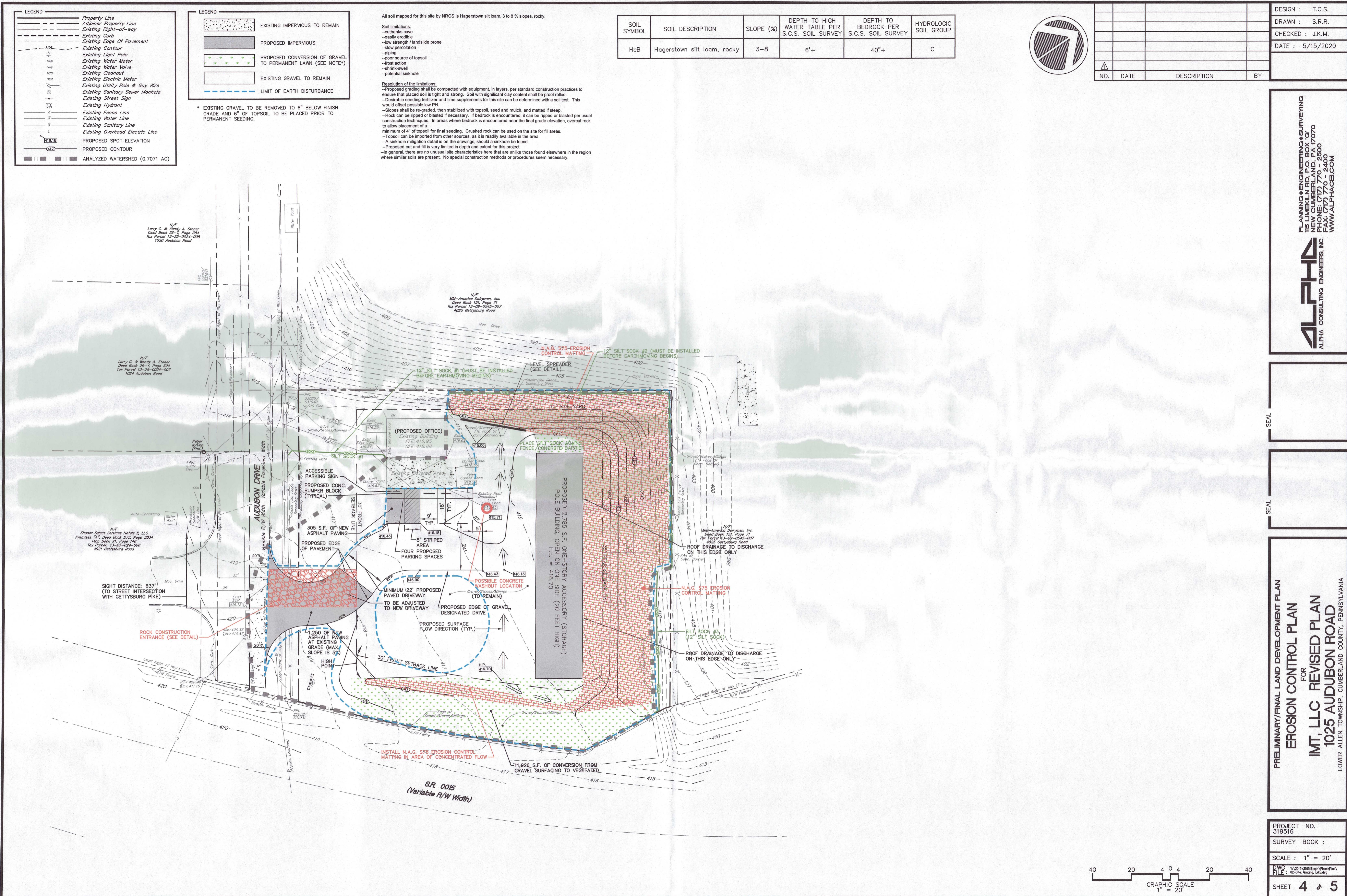
SURVEY BOOK :

SCALE : 1" = 100'

DWG : 02-Aerial Shaded
FILE : 02-Aerial Shaded

GRAPHIC SCALE
1" = 100'

2 & 5



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EROSION CONTROL PLAN GENERAL NOTES:

- The site contractor shall be responsible for implementation of this Erosion Control Plan.
- The site contractor shall not disturb more area than is necessary for the task to be done, so that potential for erosion is minimized.
- Erosion and sediment controls must be constructed, stabilized, and functional before site disturbance within the tributary areas to the controls.
- A copy of the approved Erosion and Sediment Control Plan / Drawings (stamped, signed and dated by the reviewing agency) must be available at the project site during all times.
- At least 7 days prior to starting any earth disturbance activities, or expanding into an area previously unmarked, the owner and/or operator shall invite all contractors involved in those activities, the landowner, appropriate municipal officials, the erosion control plan preparer, the post construction plan preparer, and a representative of the County Conservation District to an on-site pre-construction meeting.
- At least 3 days before starting any earth disturbance activities, or expanding into an area previously unmarked, the Pennsylvania One Call system incorporated shall be notified at 1-800-242-7776 for the location of existing underground utilities.
- All earth disturbance activities shall proceed in accordance with the sequence provided on the plan drawings. Each stage shall be completed and immediately stabilized before any following stage is initiated. Clearing, grubbing, and topsoil stripping shall be limited only to those areas described in each stage. Deviation from that sequence must be approved in writing from the County Conservation District prior to implementation.
- Clearing, grubbing, and topsoil stripping may not commence in any stage or phase of the project until the E & S BMPs specified by the Construction Sequence for that stage or phase have been installed and are functioning as described in this document.
- At no time shall construction vehicles be allowed to enter areas outside the limit of disturbance boundaries shown on the plan maps. These areas must be clearly marked and fenced off before clearing and grubbing operation begin.
- Topsoil stockpile heights shall not exceed 35 feet. Stockpile side slopes must be 2:1 or flatter.
- Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices (BMPs) to minimize the potential for erosion and sediment pollution, and notify the Conservation District and/or the regional office of PA DEP.
- Solids, trash and other pollutants shall be disposed in accordance with federal and state regulations in order to prevent any pollutant in such materials from adversely affecting the environment. All building materials and wastes must be removed from the site and recycled or disposed in accordance with the Department of Environmental Protection's Solid Waste Management regulations at 25 Pa. Code 260, 280.1 et seq., 271.1, and 287.1 et seq. No building materials or wastes or unused building materials shall be burned, buried, dumped, or discharged at the site.
- All off-site waste and borrow areas must have an E & S Plan approved by the Conservation District or DEP, and fully implemented prior to being activated.
- The contractor is responsible for ensuring that any material brought onto the site is Clean Fill. Form FP-001 must be retained by the property owner for any fill material affected by a spill or release of a regulated substance but qualifying as Clean Fill due to analytical testing.
- All pumping of sediment laden water shall be through a sediment control BMP, such as a pumped water filter bag or equivalent sediment removal facility, over undisturbed vegetated areas.
- Areas which are to be topsoiled shall be scarified to a minimum depth of 4 inches prior to placement of topsoil. Areas to be vegetated shall have a minimum 4 inches of topsoil in place prior to seeding and mulching. Fill outcrops shall have a minimum of 2 inches of topsoil.
- All fill shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures, conduits, etc. shall be compacted in accordance with local requirements or codes. All fills shall be placed in compacted layers not to exceed 9 inches in thickness. Fill materials shall be free of frozen particles, brush, roots, sod, or other foreign or objectionable materials that would interfere with or prevent construction of satisfactory fills. Frozen materials or soft, mushy, or highly compressible materials shall not be incorporated into fills. Fill shall not be placed on saturated or frozen surfaces.
- Seeps or springs encountered during construction shall be handled in accordance with the standard and specification for subsurface drain or other approved method.
- All graded areas shall be permanently stabilized immediately upon reaching finished grade. Cut slopes in competent bedrock and rock fills need not be vegetated.
- Immediately after earth disturbance activities cease in any area or subarea of the project, the operator shall stabilize all disturbed areas. During non-germinating months, mulch or protective blanketing shall be applied as described in the plan. Areas not at finished grade, which will be reactivated within 1 year, may be stabilized in accordance with the temporary stabilization specifications. Those areas which will not be reactivated within 1 year shall be stabilized in accordance with the permanent stabilization specifications.
- Permanent stabilization is defined as a minimum uniform, perennial 70% vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated erosion. Cut and fill slopes shall be capable of resisting failure due to slumping, sliding, or other movements.
- All E & S BMPs must remain functional as such until all areas tributary to them are permanently stabilized or until they are replaced by another BMP approved by the Conservation District or PA DEP.
- Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and / or operator shall contact the Conservation District for an inspection prior to removal / conversion of the E & S BMPs.
- After final site stabilization has been achieved, temporary E & S BMPs must be removed or converted to permanent post construction stormwater management BMPs. Areas disturbed during removal or conversion of the BMPs must be stabilized immediately. In order to ensure rapid re-vegetation of disturbed areas, such removal / conversions should be done only during the germinating season.

SPECIFIC STAGING OF EARTHMOVING ACTIVITIES:

GENERAL NOTES FOR ALL WORK: A. At least 3 days before starting any earth disturbance activities, including clearing and grubbing, the owner and/or operator shall invite all contractors involved in those activities, the landowner, appropriate municipal officials, the erosion control plan preparer, the licensed professional responsible for oversight of critical stages of implementation of the ECPM plan, and a representative of the County Conservation District to an on-site pre-construction meeting.

B. At least 3 days before starting any earth disturbance activities, all contractor involved in those activities shall notify the Pennsylvania One Call system incorporated at 1-800-242-7776 (or 811) for the location of existing underground utilities.

C. All earth disturbance activities shall proceed in accordance with the following specific sequencing. Each stage shall be completed and immediately stabilized before any following stage is initiated. Clearing, grubbing and topsoil stripping shall be limited only to those areas described in each stage. Any deviation from the following sequence must be approved in writing by the County Conservation District.

D. Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices to eliminate the potential for accelerated erosion and sediment pollution and notify the County Conservation District.

E. Immediately after earth disturbance activities cease, the operator shall stabilize the disturbed areas. During non-germinating periods, mulch or protective blanketing shall be applied as described in the plan. Disturbed areas which are not at finished grade and which will be re-disturbed within 1 year must be stabilized in accordance with the temporary vegetative stabilization specifications. Disturbed areas which are not at finished grade or which will be re-disturbed within 1 year must be stabilized in accordance with the permanent vegetative stabilization specifications.

F. All pumping of sediment laden water shall be through a sediment control BMP, such as a pumped water filter bag or equivalent sediment removal facility, over undisturbed vegetated areas.

SPECIFIC STAGES OF CONSTRUCTION:
Stage 1
-Install a construction entrance off of the existing street at the position of the proposed driveway (which is also the existing entrance).
-Install site code #1 to 3.

Stage 2
Rough grade as needed to construct the new building, and construct it.

Stage 3
An area as the new building is completed, install curb and gutter, finish grade remaining areas, removing gravel where indicated; install new piping (eliminating the construction entrance) and placing topsoil in areas to be vegetated. Permanently seed and mulch, and most where indicated, all disturbed soil. Install erosion control matting where roof drain discharge onto soil areas, or, as an interim measure until grass is established, place flexible plastic pipe to convey the runoff from the downspout of a paved or gravel-paved area (the driveway) or to an undisturbed vegetated area that does not connect to undisturbed areas.

Stage 4
Temporary control measures can be removed when the watershed draining to the area is permanently stabilized, meaning a minimum uniform 70% vegetative cover is present, that has a density capable of resisting accelerated erosion. Permanent erosion and sediment control BMPs which permanently minimize accelerated erosion and sedimentation. The location of the control measure must be immediately stabilized upon its removal. Site socks may remain permanently in place if desired by the owner.

PERMANENT SEEDING SCHEDULE:

All disturbed soil not to be covered with impervious surfaces, riprap or landscaping mulch shall be permanently seeded to provide protection against the impact of precipitation, running water and wind. Permanent seeding schedule for the general project area is as follows:

FOR GENERAL LAWN PLANTING--
Species: 30% Kentucky bluegrass
40% Pennsylvania Creeping Red Fescue
20% Northern Perennial ryegrass
10% annual ryegrass
99%
% Pure live seed:
Application rate:
Fertilizer type:
Fertilizer application rate:
Limiting rate:
Seeding dates:
Strawbole mulching rate:
Mulch anchoring:

6 lbs./1,000 sq. ft.
general purpose granular, 10-20-20
11 lbs./1,000 sq. yds.
per soil test, minimum of 6 tons per acre
between 4/1 and 10/15
3 tons per acre
Asphalt, either emulsified or cut-back, containing no solvents or other chemicals toxic to plant or animal life, uniformly applied at the rate of 31 gallons per 1,000 square yards.
Synthetic binders (chemical binders) may be used per manufacturer's recommendation provided they are non-toxic to plant and animal species.

E&S GENERAL NOTES CONT'':

- Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and / or operator shall contact the Conservation District to schedule a final inspection.
- Failure to correctly install E & S BMPs, failure to prevent sediment-laden runoff from leaving the construction site, or failure to take immediate corrective action to resolve failure of E & S BMPs may result in administrative, civil, and/or criminal penalties being instituted by the Pennsylvania Department of Environmental Protection as defined in Section 602 of the Pennsylvania Clean Streams law. The Clean Streams law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor criminal penalties for each violation.
- Only limited disturbance will be permitted to initially access and acquire borrow to construct control facilities, before general site alteration begins.
- If fuel or other dangerous chemicals are stored on site, then a Preparedness, Prevention and Contingency (PPC) Plan must be developed and kept on site.
- An erosion control blanket must be installed on all disturbed slopes steeper than 3:1, in all areas with concentrated flows as noted on the drawings.
- Underground utilities cutting through any active channel shall be immediately backfilled and the channel restored to its original cross-section and protective lining. Any base flow within the channel shall be conveyed past the work in the manner described in this plan until such restoration is complete.
- Filter Materials--
The NPDES Permit covers the 'moving, depositing, stockpiling, or storing of soil rock or earth materials.' If the site will need to have fill imported from an off site location, the responsibility for performing environmental diligence and the determination of clean fill will in most cases reside with the operator. If fill is to be transported to an off site location, the responsibility of clean fill determination and the environmental due diligence rests on the applicant. If all cut and fill materials will be used on the site, a clean fill determination is not required by the operator unless there is a belief that a spill or release of a regulated substance occurred on site. The contractor is responsible for ensuring that any material brought onto the site is Clean Fill. Any placement of clean fill that has been affected by a spill or release of a regulated substance must use Form FP-001 to certify the origin of the fill material and the results of the analytical testing to qualify the material as clean fill. Form FP-001 must be retained by the owner of the property receiving the fill.

Applicants and/or operators must use environmental due diligence to ensure that the fill material associated with this project qualifies as Clean Fill. Definitions of Clean Fill and environmental diligence are provided below. All fill material must be used in accordance with the Department's policy. Management of Fill, File number 259-192-773. A copy of this policy is available online at www.dep.state.pa.us. Under the heading Quick Access on the left side of the screen, click on Forms and Publications. On the left side of the screen click on Technical Guidance Documents-Final. Then the document number 258-2182-773 into the search window and conduct the search. Click on Management of Fill.

Clean Fill is defined as: Uncontaminated, non-water soluble, non-decomposable, inert, solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and is recognizable as such. The term does not include materials placed in or on the waters of the Commonwealth unless otherwise authorized. (The term 'used asphalt' does not include milled asphalt or asphalt that has been processed for use as fill.)

Clean Fill affected by a spill or release of a regulated substance: Fill materials affected by a spill or release of a regulated substance still qualifies as clean fill provided the testing reveals that the fill material contains concentrations of regulated substances that are below the residential limits in Tables FP-1a and FP-1b found in the Department's policy Management of Fill.

Environmental due diligence: Investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use history, Sanborn maps, environmental questionnaires, transaction screens, analytical testing, environmental assessments or audits. Analytical testing is not a required part of due diligence unless visual inspection and/or review of the fill land use of the property indicates that the fill may have been subjected to a spill or release of regulated substance. If the fill may have been affected by a spill or release of a regulated substance, it must be tested to determine if it qualifies as clean fill. Testing should be performed in accordance with Appendix A of the Department's policy Management of Fill.

Fill material that does not qualify as clean fill is regulated fill. Regulated fill is waste and must be managed in accordance with the Department's municipal or residual waste regulations based on 25 Pa. Code Chapters 287 Residual Waste Management or 271 Municipal Waste Management, whichever is applicable.

32. The erosion and sediment pollution control plan and NPDES permit must be approved by the County Conservation District prior to any earthmoving activities on this site.

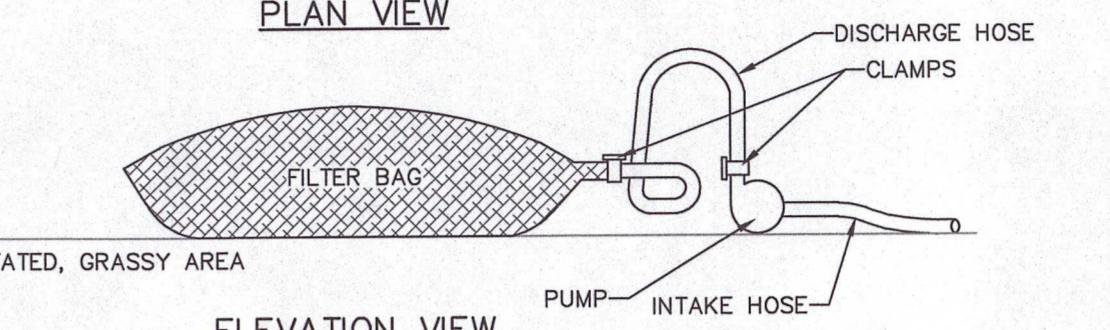
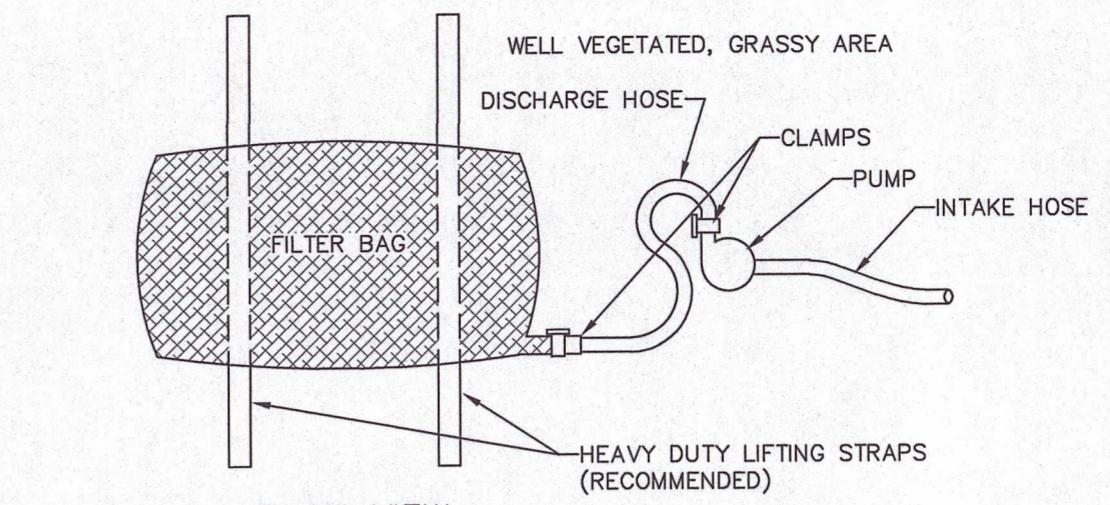
33. All channels must be kept free of obstructions such as fill ground, fallen leaves and woody debris, accumulated sediment, and construction wastes/materials. Channels should be kept mowed and/or free of all weedy, brushy or woody growth. Any underground utilities running across/through the channel(s) shall be immediately backfilled and the channel(s) repaired and stabilized per the channel cross-section detail.

34. Vegetated channels shall be constructed free of rocks, tree roots, stumps or other projections that will impede normal channel flow and/or prevent good soil to soil contact. The channel shall be initially over-excavated to allow for the placement of topsoil.

35. The permittee and co-permittee must ensure that visual site inspections are conducted weekly, and after each measurable precipitation event by qualified personnel, trained and experienced in erosion and sediment control, to ascertain that the Erosion and Sediment Control (E&S) BMPs are operational and effective in preventing pollution to the waters of the Commonwealth. A written report of each inspection shall be kept, and include:

- a summary of the site conditions, E&S BMPs, and compliance; and
- the date, time, and the name of the person conducting the inspection.

36. The contractor shall be responsible for the removal of any excess material and make sure the site(s) receiving the excess has an approved erosion and sediment control plan that meets the conditions of Chapter 102 and/or other State or Federal regulations.



NOTES:
LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY AREA) AND DISCHARGE INTO STABLE, EROSION RESISTANT GROUND. WHERE THIS IS NOT POSSIBLE, FILTER BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

PUMPED WATER FILTER BAG NTS

CONCRETE WASHOUT - For any project on which concrete will be poured or otherwise formed on delivery vehicles unless a facility will be used at the source of the concrete. Under no circumstances may wash water from these vehicles be allowed to enter any surface water. Make sure that proper signage is provided to drivers so that they are aware of the presence of washout facilities.

Washout facilities should not be placed within 50 feet of storm drains, open ditches or surface waters. They should be in a location where the truck, preferably near the place where the concrete is being pumped, has enough room to turn the truck so as to form a ring with the ends of the truck located at the upper corner (Figure 1.8). Care should be taken to ensure the placement of the sock with the geomembrane at all locations. Where necessary, socks may be stacked and staked so as to form a triangular cross-section.

Compost Sock Washout

Wherever compost sock washouts are used, a suitable impervious geomembrane should be placed at the location of the washout. Compost socks should be staked in the manner recommended by the manufacturer. They should be placed in a location where the soil is stable enough to support the weight of the socks.

NOTES:
1. 1" x 2" WOODEN STAKES PLACED 6 FT C.O. ON THE OUTSIDE OF THE FILTER SOCK.
2. 1" x 2" WOODEN FILTER SOCKS MAY BE USED ON THE OUTSIDE OF THE FILTER SOCK.

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