CONDITIONAL USE REQUEST

POCKET NEIGHBORHOOD LAND DEVELOPMENT IN R-2 ZONIN DISTRICT WITH ALL REQUIREMENTS MET IN NORTH LEBANON TOWNSHIP ORDINANCE 4-2019 CONDITIONS: NLT ORDINANCE 4-2019 APPROVED)/ NOT APPROVED 7/14/21

GENERAL NOTES

- ANY REVISIONS TO THIS PLAN AFTER THE DATE OF PLAN PREPARATION OR LATEST REVISION SHALL NOT BE THE RESPONSIBILITY OF STECKBECK ENGINEERING & SURVEYING, INC SUBSTITUTIONS FOR ANY MATERIAL NOTED ON THESE PLANS REQUIRES PRIOR WRITTEN APPROVAL OF STECKBECK ENGINEERING & SURVEYING, INC.
- NO ONE SHALL SCALE FROM THESE PLANS. PLAN LOCATION AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE
- DIRECTED BY THE ENGINEER RESPONSIBLE FOR THE PLANS. ALL DIMENSIONS SHOWN ON THE PLANS ARE TAKEN FROM THE FACE OF CURB AND EXTERIOR FACE OF THE BUILDINGS, UNLESS OTHERWISE NOTED ON THE PLAN.
- NO WALL, FENCE, OR OTHER STRUCTURE SHALL BE ERECTED, ALTERED OR MAINTAINED, AND NO HEDGE, TREE, SHRUB OR GROWTH SHALL BE PLANTED OR MAINTAINED WHICH EXCEEDS TWO
- AND ONE-HALF (2 1/2') FEET AS IT MAY RESULT IN A VISUAL OBSTRUCTION WITHIN THE CLEAR SIGHT TRIANGLES AT STREET INTERSECTIONS. DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, NO ALTERATION FROM THE PLAN MAY BE MADE WITHOUT TOWNSHIP APPROVAL. CHANGES TO THE APPROVED PLAN SHALL ONLY BE AUTHORIZED BY WRITTEN APPROVAL OF THE TOWNSHIP OR THE TOWNSHIP'S AGENT (E.G.,
- COUNTY ENGINEER) ALL PLAN SHEETS, INCLUDING STORMWATER MANAGEMENT REPORT, EROSION CONTROL REPORT
- ARE PART OF THIS PLAN AND ARE ENFORCEABLE AS IF THEY APPEARED IN TOTAL HEREIN. A MAJOR REVISION TO THE BUILDING AND PARKING CONFIGURATION SHALL REQUIRE A REVISED
- LAND DEVELOPMENT PLAN APPROVAL FOR THE LOT BEING REVISED. TREES OR SHRUBS SHALL NOT BE PLANTED IN SWALES OR WITHIN 5 FEET OF BURIED UTILITY ALL PROPOSED SIGN(S) SHALL COMPLY WITH ALL NORTH LEBANON TOWNSHIP ZONING ORDINANCE
- REGULATIONS AND SHALL BE INSTALLED BY THE DEVELOPER AT THEIR EXPENSE. IT IS A REQUIREMENT THAT A NEW LAND DEVELOPMENT PLAN SHALL BE FILED WITH THE TOWNSHIP AND COUNTY FOR ANY FUTURE EXPANSION OF THE FACILITIES ON THIS SITE NOT SHOWN ON THESE PLANS. THE TOWNSHIP AND MUNICIPAL AUTHORITY SHALL HAVE THE RIGHT TO
- REVISE OR AMEND THE NOTES AND REQUIREMENTS SET FORTH ON THIS PLAN AND TO REVISE OR AMEND THE DEVELOPER AGREEMENTS WHENEVER A NEW LAND DEVELOPMENT PLAN IS FILED THE DEVELOPER SHALL BE FINANCIALLY RESPONSIBLE FOR ANY ATTORNEY FEES WHERE THE ATTORNEY IS ENGAGED ON BEHALF OF THE TOWNSHIP/AUTHORITY RELATING TO THE REVIEW OF THE LAND DEVELOPMENT PLANS OR LAND DEVELOPMENT PLANS THAT ARE SUBMITTED TO THE TOWNSHIP/AUTHORITY. THESE FEES ARE IN ADDITION TO SUBMISSION FEES CHARGED BY THE TOWNSHIP AND AUTHORITY. PAYMENT OF ALL INVOICES IS DUE AND PAYABLE WITHIN 30 DAYS OF RECEIPT BUT IN ALL CASES PRIOR TO PLAN APPROVAL BY THE BOARD OF SUPERVISORS. ANY QUESTIONS ON INVOICES MUST BE REPORTED TO THE TOWNSHIP/AUTHORITY IN WRITING WITHIN 10 DAYS OF RECEIPT OF THE BILL.

EROSION AND SEDIMENTATION POLLUTION CONTROL GUIDELINES CONSTRUCTION SEQUENCE SHALL BE DEVELOPED THAT INCLUDES THE INSTALLATION

- OF E&SPC FACILITIES, AND BEST MANAGEMENT PRACTICES (BMP'S). BEFORE EARTHMOVING MAY COMMENCE . E&SPC FACILITIES AND BMP'S SHALL BE CORRECTLY INSTALLED AND MAINTAINED. MAINTENANCE INFORMATION AND CONSTRUCTION DETAILS MAY BE OBTAINED FROM THE COUNTY CONSERVATION
- . EARTH DISTURBANCE SHALL TAKE PLACE WITHIN A DEFINED LIMIT OF DISTURBANCE AND
- IMMEDIATELY PRIOR TO CONSTRUCTION. . DEVELOPMENT PLANS SHALL PRESERVE SALIENT NATURAL FEATURES. MINIMIZE LAND CUTS AND FILLS. AND CONFORM TO THE GENERAL TOPOGRAPHY. PLANS SHALL BE DESIGNED AND IMPLEMENTED SO AS TO CREATE THE LEAST POTENTIAL FOR EROSION AND TO ADEQUATELY CONTAIN THE VOLUME AND REDUCE THE VELOCITY OF SURFACE WATER RUNOFF.
- NATURAL VEGETATION SHALL BE RETAINED, PROTECTED, AND SUPPLEMENTED PRIOR TO AND DURING CONSTRUCTION. TOPSOIL SHALL BE REMOVED FROM CONSTRUCTION AREAS AND STOCKPILED FOR FINAL GRADING
- AND SEEDBED PREPARATION. DOWNSLOPE AREAS OF ANY STOCKPILES, CONSTRUCTION, OR BORROW AREAS SHALL BE PROTECTED WITH CORRECTLY INSTALLED AND MAINTAINED SILT FENCE, STRAW BALES. OR SEDIMENT TRAPS PRIOR TO ANY EARTH DISTURBANCE IN ORDER TO MINIMIZE SEDIMENT LADEN RUNOFF. ALL CUTS AND FILLS SHALL BE BROUGHT TO FINAL GRADE EARLY IN THE CONSTRUCTION SEQUENCE, AND STABILIZED IMMEDIATELY WITH SEED AND MULCH. ONLY DRIVEWAY EXCAVATIONS THAT CAN BE STABILIZED WITH A CRUSHED STONE BASE THE
- SAME DAY SHALL BE COMPLETED. . CURRENT REGULATIONS STATE:
- A) UPON COMPLETION OF ANY EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION. B) EROSION AND SEDIMENT CONTROL BMP'S SHALL BE IMPLEMENTED AND MAINTAINED UNTIL THE
- PERMANENT STABILIZATION IS COMPLETED.) FOR AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY TO BE CONSIDERED PERMANENTLY STABILIZED, THE DISTURBED AREAS SHALL BE COVERED WITH ONE OF THE FOLLOWING: % PERENNIAL VEGETATIVE COVER, WITH A DENSITY 1) A MINIMUM UNIFORM 70 CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION.) AN ACCEPTABLE BMP WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND
- SÉDIMENTATION. EROSION CONTROL & CONSERVATION PLANTINGS ON THE PENN STATE AGRONOMY GUIDE AND NON-CROPLAND GUIDE SHALL BE CONSULTED FOR PERMANENT AND TEMPORARY SEEDING AND MULCHING TYPES AND RATES. (STRAW MULCH SHALL SLOPES STEEPER THAN 3:1 SHALL BE CORRECTLY LINED WITH APPROPRIATE TURF REINFORCEMENT MATTING.) OTHER HELPFUL PUBLICATIONS (SPECIAL CIRCULAR 163), TURFGRASS ESTABLISHMENT INCLUDE TURFGRASS SEED PRINCIPALS OF TURFGRASS AND SEED MIXTURES (EXTENSION CIRCULAR 391), AND IRRIGATION (SPECIAL CIRCULAR 158). THE PUBLICATIONS
- REFERENCED ARE AVAILABLE FROM THE PENN STATE EXTENSION OFFIC ALL RECYCLING AND DISPOSAL OF CONSTRUCTION WASTE SHALL BE IN ACCORDANCE WITH LOCAL AND STATE RULES AND REGULATIONS FOR WASTE MANAGEMENT. CONSTRUCTION WASTE INCLUDES BUT IS NOT LIMITED TO: EXCESS SOIL AND ROCK, BUILDING MATERIALS, CONCRETE AND CONCRETE WASH WATER, SANITARY WASTE AND ANY OTHER MATERIALS THAT COULD ADVERSELY IMPACT SURFACE OR GROUND WATER QUALITY

2. FAILURE TO CORRECTLY INSTALL SEDIMENT CONTROL FACILITIES OR FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR FAILURE CORRECTIVE ACTIONS TO IMMEDIATELY RESOLVE FAILURES OF SEDIMENT CONTROL FACILITIES MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRÓNMENTAL PROTECTION AS DEFINED IN SECTION 602 OF THE CLEAN STREAMS LAW OF PENNSYLVANIA. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CIVIL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.

ZONING COMPLIANCE

DIMENSIONAL REQUIREMENTS	FOR RESIDENTIA	L BUILDINGS	
	REQUIRED	PROPOSED	
FROM ANY PERIMETER LOT OR ROW LINE	30'	30'+	
FROM ANY INTERIOR STREET	5'	5'+	
FROM ANY INTERIOR ALLEY	3'	N/A	
FROM ANY DWELLING NOT LAWFULLY ATTACHED	10'	10'+	
MIN. COMMON OPEN SPACE PER UNIT	400 SQ.FT.	620 SQ.FT.	
MIN. PRIVATE OPEN SPACE PER UNIT	200 SQ.FT.	250 SQ.FT. +	
MAX. LOT COVERAGE	40%	19%	
MAX. UNIT DENSITY	10 UNITS/ACRE	9.6 UNITS/ACRE	
DIMENSIONAL REQUIREMENTS	STRUCTURES		
	REQUIRED	PROPOSED	
FROM ANY PERIMETER LOT OR ROW LINE	10'	10'	
FROM ANY INTERIOR STREET	5'	5'+	
FROM ANY INTERIOR ALLEY	3'	N/A	
FROM ANY DWELLING OR NON-RESIDENTIAL BLDG.	10'	16'+	
FROM ANY OTHER ACCESSORY BUILDINGS OR STRUCTURES NOT LAWFULLY ATTACHED	5'	16'+	
POCKET NEIGHBORHO	OD PARKING PRO	/IDED	
	REQUIRED	PROPOSED	
23 UNITS (9-TWO BED, 14-ONE BED)	34	35	
POCKET NEIGHBORHOOD PARKING			
	REQUIRED		
1 BEDROOM UNIT	1 SPACE/UNIT		

1.5 SPACE/UNIT

1 PER 4 UNITS

2 BEDROOM UNIT

VISITOR PARKING

SOURCE OF TITLE

DEED BOOK: 2301 PAGE: 94 PIN: 27-2344316-373053 ACRES: 2.38 AC. (DEED), 2.43 AC. (SURVEY)

APPLICANT & OWNER

COMMUNITY HOMES OF 1407 OAK STREE LEBANON COUNTY, INC. LEBANON, PA. 17042 ATTN .: CHARLIE RUSH PHONE: 717-273-1711

2.43 AC.

SITE DATA

SITE AREA: SITE ZONING: EXISTING USE: PROPOSED USE:
SOURCE OF WATER: SOURCE OF SEWER: PROPOSED LOTS:

HIGH DENSITY RESIDENTIAL (R-2)VACANT LAND POCKET NEIGHBORHOOD DWELLING SEMI-DETACHED & TOWNHOUSES PUBLIC PUBLIC

EXISTING IMPERVIOUS COVERAGE: 0% PROPOSED IMPERVIOUS COVERAGE: 48%

SURVEY NOTES

- 1. BENCHMARK: BM1: MAG NAIL IN NORTH SIDE OF EAST CANAL STREET, BEING 8'± WEST OF THE EAST END OF CURBING NORTHING: 373109.68 EASTING: 2343972.7
- ELEVATION: 504.52 BM2: MAG NAIL IN SOUTHEAST CORNER OF THE INTERSECTION OF E. CANAL STREET AND NORTH 7TH AVENUE NORTHING: 373144.32 EASTING: 2344630.69
- ELEVATION: 506.71 VERTICAL DATUM: NAVD 88
- HORIZONTAL DATUM: NAD83 PA SOUTH ZONE UNDERGROUND UTILITIES ARE SHOWN ACCORDING TO INFORMATION PROVIDED BY OTHERS AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION, EXCAVATION OR BLASTING. THE ACTUAL LOCATIONS OF THESE UTILITIES HAVE NOT BEEN FIELD VERIFIED AND THE LOCATIONS ARE APPROXIMATE. STECKBECK ENGINEERING & SURVEYING, INC. DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE, OR GUARANTEE THAT THE UNDERGROUND UTILITY LOCATION PROVIDED BY OTHERS AND REFLECTED ON THESE DRAWINGS ARE CORRECT AND ACCURATE. STECKBECK ENGINEERING & SURVEYING, INC ASSUMES NO RESPONSIBILITY FOR ANY DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.

PLAN INTENT

HE INTENT OF THIS PLAN IS TO CONSTRUCT A 23 DWELLING UNIT POCKET NEIGHBORHOOD ALONG WITH ASSOCIATED IMPROVEMENTS SUCH AS, ACCESS DRIVE, PARKING FACILITIES, STORMWATER MANAGEMENT FACILITIES, ETC.

NPDES APPROVAL

THE PERMIT WILL EXPIRE ON _____ THE NPDES PERMIT WAS ISSUED ON NPDES PERMIT # ______, DISTRICT FILE # _____

- STANDARD STORMWATER NOTES ALL STORM WATER MANAGEMENT FACILITIES SHOWN ON THIS PLAN SHALL BE CONSTRUCTED
- BY THE DEVELOPER IN ACCORDANCE WITH THE DESIGN, CONDITIONS AND SPECIFICATIONS IDENTIFIED ON THIS PLAN. OWNERSHIP AND MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE LANDOWNER, HIS SUCCESSORS AND ASSIGNS, UNLESS SPECIFICALLY IDENTIFIED OTHERWISE HEREIN.
- STORM WATER MANAGEMENT FACILITIES SHALL BE MAINTAINED IN GOOD WORKING CONDITION) THAT THEY ARE PERFORMING THEIR DESIGN FUNCTION. IN A MANNER ACCEPTABLE TO THE COUNTY. AS REQUIRED BY THE LEBANON COUNTY SUBDIVISION & LAND DEVELOPMENT AND STORM WATER MANAGEMENT ORDINANCES. MAINTENANCE SHALL INCLUDE PERFORMING ROUTINE MAINTENANCE AND REPAIR OR REPLACEMENT OF DAMAGED FACILITIES, VEGETATION OR STORM WATER AREAS TO CONDITIONS AS SHOWN ON THE APPROVED PLAN AND IN ACCORDANCE WITH THE LEBANON COUNTY SUBDIVISION & LAND DEVELOPMENT ORDINANCE ANY DRAINAGE AND UTILITY EASEMENTS SHOWN ON THE PLAN SHALL BE CONSTRUCTED.
- OWNED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLAN AND SHALL BE REFERENCED WITHIN THE PROPERTY DEED. 4. RUNOFF FROM THE LOT IMPROVEMENTS SHALL BE DIRECTED TO THE STORM WATER MANAGEMENT FACILITIES. STORM WATER RUNOFF FROM EXISTING NATURAL SWALES AND/OR
- OTHER EXISTING DRAINAGE CONVEYORS SHALL NOT BE DIRECTED TOWARDS OR INTERCEPTED BY THE STORM WATER MANAGEMENT FACILITIES. MUNICIPAL AND COUNTY OFFICIALS AND THEIR AGENTS OR EMPLOYEES HAVE THE RIGHT OF ACCESS FOR INSPECTION AND, IN CASES OF CONSTRUCTION DEFAULT, CONSTRUCTION OF
- THE STORM WATER MANAGEMENT FACILITIES. THE MAINTENANCE OF ALL SUCH FACILITIES SHALL BE THE RESPONSIBILITY OF THE LOT OWNER ON WHICH THE FACILITIES EXIS LEBANON COUNTY SHALL NOT BE LIABLE FOR MAINTENANCE OF ANY STORM WATER MANAGEMENT FACILITIES NOT CONSTRUCTED AS SHOWN HEREIN. DRAINAGE FASEMENT SHALL ALLOW PASSAGE OF STORM WATER IN UNDERGROUND STORM SEWER PIPING AND ASSOCIATED STRUCTURES AND/OR ALLOW PASSAGE OF STORM WATER OVER THE SURFACE OF THE GROUND AND SHALL ALLOW ACCESS ACROSS THE AREA FOR PURPOSES OF
- MAINTENANCE OF THE STORM CONVEYANCE SYSTEMS AFTER STORM WATER MANAGEMENT FACILITIES INSTALLATION IS COMPLETED, CONTACT THE LEBANON COUNTY ENGINEER (717-228-4444) FOR INSPECTION. NO OCCUPANCY PERMITTED UNTIL STORM WATER MANAGEMENT FACILITIES HAVE BEEN INSTALLED AND APPROVED THROUGH INSPECTION BY THE COUNTY.
- 7. ROOF DRAINS SHALL NOT BE CONNECTED TO STREETS, SANITARY SEWERS OR ROADSIDE IN AREAS OF CARBONATE GEOLOGY, ALL RETENTION AND DETENTION BASINS SHALL BE ONSTRUCTED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER OR PROFESSIONAL
- GEOLOGIST LICENSED BY THE COMMONWEALTH. A PROFESSIONALLY SEALED AS-BUILT CONSTRUCTION REPORT, AND PLAN INCLUDING RELATIVE DATES, NAME(S) OF CONTRACTOR(S), METHODS OF CONSTRUCTION, AND VERIFICATION OF CONFORMANCE TO PLAN SPECIFICATIONS AND GOOD ENGINEERING PRACTICES SHALL BE PROVIDED TO THE LEBANON COUNTY PLANNING DEPARTMENT PRIOR TO BOND REDUCTION REQUESTS RELATED TO THE BASIN(S)



SERIAL NUMBER: 20220040191 (CITY OF LEBANON) DATE: 01/04/22

STECKBECK ENGINEERING & SURVEYING, INC., HEREBY STATES THAT, PURSUANT TO THE PROVISIONS OF ACT NO. 287 OF 1974 AS AMENDED BY ACT 121 OF 2008 OF THE PENNSYLVANIA GENERAL ASSEMBLY, IT HAS PERFORMED THE LOWING IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON PURSUANT TO SECTION 4, CLAUSE (2) OF SAID ACT, STECKBECK

ENGINEERING & SURVEYING, INC. REQUESTED THE LINE AND FACILITY INFORMATION PRESCRIBED BY SECTION 2, CLAUSE (4) FROM A ONE CAL SYSTEM NOT LESS THAN TEN NOR MORE THAN NINETY WORKING DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.

(2) PURSUANT TO SECTION 4. CLAUSE (3) OF SAID ACT. STECKBECK EERING & SURVEYING, INC. SHOWN UPON THE DRAWING(S) THE POSITION TYPE OF EACH FACILITY OWNERS LINE, DERIVED PURSUANT TO THE AND TYPE OF EACH FACILITY OWNERS LINE, DERIVED PURSUANT TO THE AND TYPE OF EACH FACILITY OWNERS LINE DERIVED PURSUANT TO THE REQUEST MADE AS REQUIRED BY SECTION 4, CLAUSE (2), AND THE NAME OF E FACILITY OWNER, AND THE FACILITY OWNERS DESIGNATED OFFICE ADDRESS THE FACILITY OWNER, AND THE FACILITY OWNERS DESIGNATED OFFICE ADDRESS THE TELEPHONE NUMBER AS SHOWN ON THE LIST REFERRED TO IN SECTION 3.

(3) PURSUANT TO SECTION 4, CLAUSE (4) OF SAID ACT, STECKBECK ENGINEERING & SURVEYING, INC. MADE A REASONABLE EFFORT TO PREPARE THE CONSTRUCTION DRAWING(S) TO AVOID DAMAGE TO AND MINIMIZE INTERFERENCE WITH A FACILITY OWNERS FACILITIES IN THE CONSTRUCTION AREA BY MAINTAINING AN EIGHTEEN-INCH CLEARANCE OF THE FACILITY OWNERS FACILITIES WHERE POSSIBLE.

(4) PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, STECKBECK ENGINEERING & SURVEYING, INC., SHALL BE DEEMED TO HAVE MET THE OBLIGATIONS OF CLAUSE (2) BY CALLING A ONE CALL SYSTEM AND SHOWING OBLIGATIONS OF CLAUSE (2) BY CALLING A ONE CALL SYSTEM AND SHOWING AS PROOF THE SERIAL NUMBER OF THE ONE CALL NOTICE ON THE DRAWING(S). AS PROOF THE SERIAL NUMBER OF THE ONE CALL NOTICE ON THE DRAWING(S). CITY OF LEBANON, LEBANON COUNTY ID NO. 20220040191. AND STECKBECK ENGINEERING & SURVEYING, INC. DOES NOT MAKE ANY REPRESENTATION. WARRANTY ASSURANCE OR GUARANTEE THAT THI

DUE TO THE REQUIREMENTS OF THE SAID ACT 187, DECEMBER 19, 1996. COMCAST CABLE LEBANON VERIZON PENNSYLVANIA LLC LEBANON AUTHORITY CITY OF 1026 HAY STREET PITTSBURGH, PA 15221 C/O USIC LOCATING SERVICE I 3085 HAMILTON CROSSING BLVD STE 200

400 S 8TH STREET LEBANON, PA 17042

rgetz@lebanonpa.org

UGI UTILITIES INC

sbateman@ugi.com

301 AIP DR

CONTACT - ROBIN GETZ

CARMEL, IN 46032 CONTACT - USIC OFFICE PERSONNEL MET ED FIRSTENERGY 800 POTTSVILLE PIKE READING, PA 19605 CONTACT - PETE HACHEM PHACHEM@FIRSTENERGYCORP.COM CITY OF LEBANON AUTHORITY 2311 RIDGEVIEW ROAD

LEBANON, PA 1704 CONTACT - BOB SENTZ BSENTZ@LEBANONAUTHORITY.ORC

SERIAL NUMBER: 20220040190 (NORTH LEBANON TOWNSHIP) DATE: 01/04/22 STECKBECK ENGINEERING & SURVEYING, INC., HEREBY STATES THAT, PURSUANT TO THE PROVISIONS OF ACT NO. 287 OF 1974 AS AMENDED BY ACT 121 OF 2008 OF THE PENNSYLVANIA GENERAL ASSEMBLY, IT HAS PERFORMED THE OLLOWING IN PREPARING THESE DRAWINGS REQUIRING EXCAVATION OR DEMOLITION WORK AT SITES WITHIN THE POLITICAL SUBDIVISION(S) SHOWN ON E DRAWINGS: PURSUANT TO SECTION 4, CLAUSE (2) OF SAID ACT, STECKBECK ÉNGINEERING & SURVEYING, INC. REQUESTED THE LINE AND FACILITY INFORMATION PRESCRIBED BY SECTION 2, CLAUSE (4) FROM A ONE CA SYSTEM NOT LESS THAN TEN NOR MORE THAN NINETY WORKING DAYS BEFORE FINAL DESIGN IS TO BE COMPLETED.

REQUEST MADE AS REQUIRED BY SECTION 4, CLAUSE (2), AND THE NAME O AND THE TELEPHONE NUMBER AS SHOWN ON THE LIST REFERRED TO IN SECTION 3.

THE CONSTRUCTION DRAWING(S) TO AVOID DAMAGE TO AND MINIMIZE INTERFERENCE WITH A FACILITY OWNERS FACILITIES IN THE CONSTRUCTION AREA BY MAINTAINING AN EIGHTEEN-INCH CLEARANCE OF THE FACILITY OWNERS FACILITIES WHERE POSSIBLE.

NORTH LEBANON TOWNSHIP, LEBANON COUNTY ID NO. 20220040190. AND STECKBECK ENGINEERING & SURVEYING, INC. DOES NOT MAKE ANY REPRESENTATION. WARRANTY ASSURANCE OR GUARANTEE THAT TH THESE DRAWINGS IS CORRECT OR ACCURATE, BUT STECKBECK ENGINEERING & THESE DRAWINGS IS CORRECT OR ACCURATE, BUT STECKBECK ENGINEERING & SURVEYING INC IS REFLECTING SAID INFORMATION ON THES DUE TO THE REQUIREMENTS OF THE SAID ACT 187, DECEMBER 19, 1996.

> 2200 WEST CHESTNUT ST LEBANON, PA 17042 CONTACT - DEBORAH BARUM CONTACT - BOB SENTZ deborah.d.delia@verizon.com BSENTZ@LEBANONAUTHORITY.COM LEBANON CITY PUBLIC WORKS MET ED FIRSTENERGY) POTTSVILLE PIKE READING, PA 19605 CONTACT - PETE HACHEM PHACHEM@FIRSTENERGYCORP.COM NORTH LEBANON TOWNSHIP 25 KIMMERLINGS ROAD MIDDLETOWN, PA 17057-5987 LEBANON, PA 17046 CONTACT - STEPHEN BATEMAN CONTACT - OFFICE PERSONNEL VERIZON PENNSYLVANIA LLC 026 HAY ST PITTSBURGH, PA 15221 CONTACT - DEBORAH BARUN

deborah.d.delia@verizon.com







(3) PURSUANT TO SECTION 4, CLAUSE (4) OF SAID ACT, STECKBECK ENGINEERING & SURVEYING, INC. MADE A REASONABLE EFFORT TO PREPARE

(4) PURSUANT TO SECTION 4, CLAUSE (5) OF SAID ACT, STECKBECK ENGINEERING & SURVEYING, INC., SHALL BE DEEMED TO HAVE MET THE



THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS ON SITE PRIOR TO THE START OF CONSTRUCTION. UNDERGROUND UTILITIES HAVE BEEN SHOWN ACCORDING TO INFORMATION PROVIDED BY OTHERS AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION. EXCAVATION OR BLASTING. THE ACTUAL LOCATIONS OF THESE UTILITIES HAVE NOT BEEN FIELD VERIFIED AND THE LOCATIONS ARE APPROXIMATE. STECKBECK ENGINEERING & SURVEYING, INC. (SESI) DOES NOT MAKE ANY REPRESENTATION, WARRANTY, ASSURANCE OR AND REFLECTED ON THESE DRAWINGS IS CORRECT AND ACCURATE. SESI ASSUMES NO LIABILITY FOR ANY DAMAGE INCURRED AS A RESULT OF UNDERGROUND UTILITIES OMITTED OR

2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. DAMAGE TO ANY UTILITY SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER, UTILITY COMPANY OR AUTHORITY, AT THE 3. EXCEPT AS NOTED HEREON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS FROM THE MUNICIPALITY, COUNTY, STATE OR AUTHORITY RELATIVE TO CONSTRUCTION 4. THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING AND RECORD DRAWINGS AS MAY BE REQUIRED BY THE MUNICIPALITY AND/OR THE VARIOUS AUTHORITIES RELATIVE TO THE

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL, TRENCH BARRICADING, COVERING, SHEETING AND SHORING, AS THE NEED ARISES. 6. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE GRADING PLAN IS IMPLEMENTED CORRECTLY, THAT A MINIMUM COVER IS MAINTAINED OVER ALL UTILITY PIPES. AND THAT PROPER DRAINAGE IS PROVIDED DURING CONSTRUCTION. 7. PROVIDE 95% MODIFIED PROCTOR DENSITY PER ASTMD-698 IN AREAS WHERE PROPOSED

8. ALL TOPS AND INVERTS PROVIDED FOR MANHOLES, INLETS, ETC., ARE FOR THE PURPOSE OF SHOWING GENERAL CONFORMANCE TO DESIGN STANDARDS ONLY. CUT SHEETS SHALL BE PREPARED BY A REGISTERED SURVEYOR PRIOR TO THE ORDERING OF ANY STRUCTURES. ANY DISCREPANCIES SHALL BE RESOLVED PRIOR TO THE START OF WORK. 9. THESE PLANS, PREPARED BY SESI, DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR, OF ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF STECKBECK ENGINEERING & SURVEYING, INC. (SESI) REGISTERED PROFESSIONAL HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY OSHA. 0. CONTRACTORS SHALL NOT STORE CONSTRUCTION MATERIALS OR LOCATE TRASH RECEPTACLES (DUMPSTERS) ON PAVED CARTWAYS OF DEDICATED AND UNDEDICATED STREETS. 11. ALL MUD FROM CONSTRUCTION ACTIVITIES THAT GETS TRACKED ONTO STREETS, EITHER

DEDICATED OR UNDEDICATED, SHALL BE CLEANED BY THE BUILDER/CONTRACTOR AT THE END 12. DIGGING TEST PITS: IN LOCATIONS WHERE NEW UNDERGROUND UTILITIES ARE TO BE CONNECTED TO EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR WILL NOT BE PERMITTED TO PROCEED WITH THE NEW CONSTRUCTION UNTIL HE HAS DUG TEST PITS AND

DETERMINED THE EXACT LOCATION AND ELEVATION OF THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR IS ADVISED THAT NO EXCAVATION IS PERMITTED IN THE UNDERGROUND UTILITY LOCATION WITHOUT THE PRESENCE OR WRITTEN APPROVAL OF AN AUTHORIZED REPRESENTATIVE OF THE OWNER OF THE SUBSURFACE UTILITY. DIG SUCH TEST PITS AT THE LOCATIONS AGREED TO BY THE OWNER OF THE SUBSURFACE UTILITY AND THE ENGINEER, AS SHOWN ON THE UTILITY PLAN SHEETS. 13. ALL JOINTS WHERE PROPOSED PAVEMENT MEETS EXISTING PAVEMENT SHOULD BE SAW CUT 14. ADA COMPLIANT RAMPS, INCLUDING DETECTABLE WARNING SURFACES, SHALL BE PROVIDED ANY EXISTING RAMPS SHALL BE REPLACED WITH COMPLIANT RAMPS. DEPRESSED CURBS MUST

TRANSITION IN SUCH A WAY AS TO NOT INHIBIT ADA COMPLIANCE OF SURFACES. 5. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL STORMWATER STRUCTURES. PRIOR TO ORDERING, THESE DRAWINGS MUST BE APPROVED BY THE COUNTY ENGINEER AND

STANDARD WATER NOTES - CITY OF LEBANON AUTHORITY: . CONTACT INFORMATION FOR THE CITY OF LEBANON AUTHORI

BY

CONTACT: BOB SENTZ, BSENTZ@LEBANONAUTHORITY.ORG, 717-272-2841

- 2. WATER SYSTEMS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE CITY OF LEBANON AUTHORITY'S "GENERAL SPECIFICATIONS FOR WATER SYSTEM CONSTRUCTION" 3. THE CONSTRUCTION OF WATER MAINS REQUIRES A WATER MAIN EXTENSION AGREEMENT BETWEEN 4. EXISTING WATER MAINS ARE SHOWN AT AN APPROXIMATE LOCATION. THE CONTRACTOR SHALL
- EXCAVATE TEST PITS TO DETERMINE ACTUAL LOCATIONS AND VERIFY WATER MAIN SIZES AT ITUITY CROSSINGS EXCAVATED AREAS AND TIE-IN LOCATION 5. WATER LATERAL CONNECTION REQUIRES AN APPLICATION AND PAYMENT FOR A CAPACITY FEE
- WITH THE AUTHORITY PRIOR TO MAKING THE WATER TAP 6. FIRE SERVICE CONNECTION REQUIRES AN APPLICATION AND PAYMENT FOR A CAPACITY FEE WITH THE AUTHORITY PRIOR TO MAKING THE FIRE LINE TAP. 7. ANY WORK WITHIN PENNDOT RIGHT-OF-WAY REQUIRES A PENNDOT HIGHWAY OCCUPANCY PERMIT (HOP) THE PERMIT TYPICALLY IS REQUIRED TO BE IN THE AUTHORITY'S NAME AND THE AUTHORITY REQUIRES THE CONTRACTOR TO PROVIDE A REFUNDABLE DEPOSIT TO THE AUTHORITY UNTIL PENNDOT SIGNS OFF ON THE PERMIT AFTER CONSTRUCTION IS COMPLETE. 8. ANY WORK WITHIN MUNICIPAL RIGHT-OF-WAY'S MIGHT REQUIRE A MUNICIPAL PERMIT. THE PERMIT
- SHALL BE ACQUIRED IN THE CONTRACTOR'S NAME. 9. THE AUTHORITY SHALL APPROVE ALL MATERIALS PRIOR TO CONSTRUCTION. 10. A MANDATORY PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE AUTHORITY, BUREAU OF WATER, AND WATERLINE CONSTRUCTION CONTRACTOR. 11. THE BUREAU OF WATER WILL INSPECT THE WATER MAIN INSTALLATION AND TESTING. THERE ARE FEES CHARGED TO THE DEVELOPER / CONTRACTOR FOR INSPECTION SERVICES. WATER MAIN
- CONSTRUCTION AND FEES SHALL BE COORDINATED WITH THE AUTHORITY. 12. THE PROPERTY OWNER / DEVELOPER SHALL INSTALL THE WATER TAP AND SERVICE LINE TO THE CURB STOP UNDER THE INSPECTION OF THE BUREAU OF WATER. THE PROPERTY OWNER IS RESPONSIBLE FOR THE WATER SERVICE AFTER THE CURB STOP. THE BUREAU OF WATER WILL INSTALL THE WATER METER WITHIN THE BUILDING OR AN APPROVED METER PIT AS INSTRUCTED BY THE BUREAU OF WATER. CONTACT THE BUREAU OF WATER METER DEPARTMENT FOR METER
- INSTALLATION, 2200 WEST CHESTNUT STREET, 717-273-2506 13. WATER SERVICE LATERALS OVER 100-FEET FROM THE CURB STOP TO THE ENTRANCE OF THE BUILDING REQUIRES THE INSTALLATION OF A METER PIT WITHIN 10-FEET OF THE CURB STOP METER PITS SHALL BE APPROVED BY THE METER DEPARTMENT PRIOR TO INSTALLATION. 14. SEWER AND WATER MAINS SHALL HAVE A MINIMUM OF AN 18-INCH SEPARATION, OR THE SEWER
- MAIN SHALL BE CONCRETE ENCASED IN THE AREA WHERE THE 18-INCH SEPARATION CANNOT BE 15. WATER MAINS AND LATERALS THAT ARE LESS THAN 18-INCHES FROM A STORM SEWER OR CULVERT SHALL BE INSULATED WITH A FOAM WRAP.
- 16. AT THE CONCLUSION OF THE INSTALLATION OF THE WATER SYSTEM AND SERVICE LINES, AND SUCCESSFUL TESTING THEREOF, THE WATER SYSTEM WILL BE OFFERED FOR DEDICATION TO THE 17. ALL EXISTING WATER LATERALS SHALL BE TERMINATED AT THE WATER MAIN BY TURNING OFF THE CORPORATION STOP AT THE MAIN, AND THE SERVICE LINES CUT AND CRIMPED WITHIN ONE FOOT OF THE CORPORATION STOP. ALL WORK, INCLUDING SAW CUTTING, EXCAVATION, LATERAL



NLTMA SANITARY SEWER NOTES: EXISTING SEWER WILL NOT BE DISTURBED IN ANY WAY.

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/NLTMA STANDARDS. PROPOSED GRAVITY LATERALS SHALL BE SLOPED AT A MINIMUM 1/4" PER FOOT, UNLESS OTHERWISE NOTED ON THE PLAN.
- STANDARD CLEANOUTS MUST BE "SCREWED ON" CAPS (PLUGS) AND THEY ARE TO BE WATER TIGHT
- SPACE BETWEEN TEST TEE & SEWER MAIN WILL BE AS REQUIRED BY NLTMA. TRENCH MUST REMAIN OPEN FOR INSPECTION. ANY TRENCH THAT IS FILLED MUST BE UNCOVERED FOR INSPECTION. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT NLTM/
- FOR INSPECTION A PRE-CONSTRUCTION MEETING WILL BE REQUIRED.
- METAL MARKING TAPE WILL BE PLACED 12" ABOVE THE PIPE FOR THE ENTIRE HORIZONTAL RUN.
- AIR TESTING FOR ALL SEWER MAINS AND LATERALS SHALL BE 5LBS/5 MIN. NO DROP. D. VACUUM TEST OF MANHOLES SHALL BE 10 LBS. VACUUM WITH AN ÁLLOWABLE DROP OF
- 1LB/1 MIN VACUUM TEST UNIT SHALL BE PLACED IN THE FRAME AREA ONLY. 2. LINE WILL BE PLUGGED AT THE COMPLETION OF EACH WORKDAY TO PREVENT DEBRIS AND
- WATER FROM ENTERING THE LINE. 13. AN APPOINTED NLTMA INSPECTOR MUST BE PRESENT AT ALL TIMES WHEN ANY SEWER
- WORK IS PERFORMED 14. INSPECTORS WILL BE AVAILABLE FROM 8 AM TO 3 PM. A 1/2 HOUR LUNCH BREAK WILL
- BE TAKEN DAILY DURING WHICH TIME NO SEWER WORK WILL BE ALLOWED. 15. ALL LINES SHALL BE FLUSHED WITH FRESH WATER TO CLEAR CONSTRUCTION DEBRIS UPON COMPLETION OF THE PROJECT
- . MANDRELL TESTING WILL BE CONDUCTED FOR ALIGNMENT OF THE PIPE. 7. DAMAGED OR CRACKED MANHOLE SECTIONS WILL BE REJECTED.
- 8. DOUBLE MASTIC ON ALL JOINTS ON MANHOLES. . STEPS MUST BE ALIGNED
- NO CONCRETE PATCHING OF ANY KIND WILL BE ACCEPTED ON LEAKING JOINTS OR ON ANY CRACKED OR DAMAGED MANHOLES SECTIONS. GROUTING OF THE INVERT IN ANY INVERT OUT PIPES SHALL BE DONE. 2. AFTER CONSTRUCTION IS COMPLETE THE CONSTRUCTED SEWER SHALL NOT BE TESTED
- UNTIL 30 DAYS HAS PASSED. 3. NO DROP MANHOLES OR INSIDE SPLASH MANHOLES WILL BE ALLOWED. . RE-BAR MUST BE INSTALLED AT THE END OF EACH LATERAL CONNECTED TO THE MAIN TO FACILITATE LATERAL LOCATION.
- 25. BUILDING OWNER SHALL BE REQUIRED TO PARTICIPATE IN THE NLTMA "STRONG WASTE MANAGEMENT PROGRAM" WHICH REQUIRES AN AGREEMENT BY THE OWNER TO MONITER, SAMPLE AND TEST SEWAGE DISCHARGE SEMI-ANNUALLY AT OWNER'S EXPENSE AND SUPPLY RESULTS TO NLTMA.
- 26. BUILDING OWNER GRANTS PERPETUAL RIGHT OF ACCESS TO THE SEWER LATERALS AND MANHOLES SHOWN HEREON FOR PURPOSE OF INSPECTION, MONITORING AND/OR SAMPLING. 27. NO PRODUCTION AREA OR STORAGE AREA FLOOR DRAINS ARE ALLOWED. 28. THE APPLICANT ACKNOWLEDGES THAT APPROVAL OF THIS LAND DEVELOPMENT PLAN DOES
- NOT CONSTITUTE APPROVAL OF THE WASTEWATER DISCHARGE FROM THE PROPOSED FACILITY. APPLICANT ACKNOWLEDGES THAT DISCHARGE MUST COMPLY WITH THE CRITERIA SET FORTH IN THE NORTH LEBANON TOWNSHIP MUNICIPAL AUTHORITY (NLTMA) STRONG VASTE MANAGEMENT ORDINANCE. COMPLIANCE WITH THE ORDINANCE MIGHT NECESSITATE THAT APPLICANT CONSTRUCT PRETREATMENT FACILITIES TO TREAT WASTEWATER PRIOR T DISCHARGE INTO THE NLTMA SEWER SYSTEM. APPLICANT ACKNOWLEDGES THEY ARE REQUIRED TO MAKE APPLICATION TO NLTMA FOR A STRONG WASTE MANAGEMENT PERMI AND THAT NO DISCHARGE FROM THE SUBJECT FACILITY CAN COMMENCE UNTIL APPROVAL IAS BEEN GRANTED BY NLTMA AND/OR THE PERMIT HAS BEEN ISSUED IF PERMIT DEEMED NECESSARY BY NLTMA UNDER THE TERMS OF THE STRONG WASTE MANAGEMENT
- 29. IT IS A REQUIREMENT THAT A NEW LAND DEVELOPMENT PLAN SHALL BE FILED WITH THE TOWNSHIP AND COUNTY FOR ANY FUTURE EXPANSION OF THE FACILITIES ON THIS SITE. HE TOWNSHIP AND MUNICIPAL AUTHORITY SHALL HAVE THE RIGHT TO REVISE OR AMEND NOTES AND REQUIREMENTS SET FORTH ON THIS PLAN AND TO REVISE OR AMEND HE DEVELOPER AGREEMENTS WHENEVER A NEW LAND DEVELOPMENT PLAN IS FILED.
- 30. BUILDING OWNER GRANTS PERPETUAL RIGHT OF ACCESS TO NLTMA, IT'S EMPLOYEES, AGENTS OR ASSIGNS FOR THE SEWER LATERALS AND MANHOLES SHOWN HEREON FOR PURPOSES OF INSPECTION, MONITORING AND/OR SAMPLING. . NLTMA HAS GRANTED APPROVAL OF THE SEWER DESIGN DEPICTED ON THIS PLAN UNDER
- THE FOLLOWING CONDITIONS: ALL FEES SHALL BE PAID BEFORE A SEWER PERMIT WILL BE ISSUED. THE STRONG WASTE PERMIT APPLICATION SHALL BE APPROVED AND ANY PRETREATMENT REQUIRED BY NLTMA SHALL BE INSTALLED AND OPERABLE TO THE SATISFACTION OF NLTMA BEFORE CONNECTION OR USE OF THE NLTMA SEWER
- SYSTEM IS PERMITTED 3. THE STRONG WASTE PERMIT MAY BE AMENDED AT ANY TIME BY THE NLTMA BASED UPON LAB TESTING AND QUALITY OF THE APPLICANT'S SEWAGE DISCHARGE WHICH IS VARIABLE, WITH SUCH CHANGES TO PRETREATMENT DEEMED NECESSARY TO ASSURE THAT THE APPLICANT'S DISCHARGE MEETS ALL APPLICABLE NLTMA STANDARDS.

OWNERS CERTIFICATION AND ACKNOWLEDGMENT

My Commission Expires

COMMONWEALTH OF PENNSYLVANIA

SURVEYOR'S CERTIFICATIO I HEREBY CERTIFY THAT TO THE BEST OF BOUNDARY AND TOPOGRAPHIC INFORMATIO IS TRUE AND CORRECT TO THE ACCURACY LEBANON TOWNSHIP & LEBANON COUNTY O	MY KNOWLEDGE, THE EXISTING N SHOWN AND DESCRIBED HEREON REQUIRED BY THE NORTH ORDINANCES.	COUNTY OF day of the appeared the of the corporation, and thathe, as successful proven, who the of corporation, and thathe, as successful performance to execute said performance to	, 20, before undersigned officer, personall , known to acknowledgedself to be , a h, a h, a h lan on behalf of the ct and deed of the esires the same to be
Michael P. O'Donnell, P.L.S	Date	recorded and on behalf of the corr that all streets and other property	oration further acknowledges identified as proposed public
NORTH LEBANON TWP. PLA	NNING COMMISSION	property are hereby dedicated to t those areas labeled "NOT FOR DEDI	he public use – (excepting CATION").
Reviewed	Date	Representative	DATE
LEBANON COUNTY ENGINEE	ER	community nomes of Lebulor c	ounty, me.
Reviewed	Date		
LEBANON COUNTY PLANNIN	NG DEPARTMENT		
		ΝΟΤΑ	RY PUBLIC
Approved	Date	My Commission Expires	20







	GUIDE (LATEST EDITION)	
3.	ALL SEEDED AREAS SHALL BE MULCHED WITH HAY OR STRAW APPLI	ED AT
	(1,240 LBS./S.Y.), MULCH TO BE ANCHORED WITH WOOD CELLULOSE	FIBER
4.	ALL DIVERSIONS, CHANNELS, SED TRAPS AND STOCKPILES MUST BE	STAB
	STABILIZATION OF SITE DOES NOT OCCUP OF CANNOT BE ACHIEVED	DURIN

FERTILIZER AND LIME SHALL BE APPLIED IN ACCORDANCE WITH SOIL TESTS.

AT A RATE OF 6,000 LBS./ACRE BILIZED IMMEDIATELY. IF

2. SPECIFICATION ITEMS OBTAINED USING PENN DOT PUBLICATION NO. 408 AND THE PENN STATE AGRONOMY

R AT 750 LBS./ACRE OR EQUAL. T BE ACHIEVED DURING THE ABOVE DATES, THEN THE CONTRACTOR SHALL PROVIDE MULCHING AS SPECIFIED ABOVE IN NOTE 3, IN THE PROJECTS AREAS OF

DISTURBANCE WHICH ARE NOT STABILIZED.

5. APPLY TEMPORARY SEED MIX ALONG WITH PERMANENT SEED MIX.

NO	SCALE

APPLICATION	SPECIES	%	APPLICATION RATE	FERTILIZER	LIMING RATE	GERMINATION SEASON SEEDING DATES (SEE NOTE 4)
TEMPORARY	ANNUAL RYE	98%	40 LBS/AC	10-10-10 AC	1 TON/AC AG GRADE	OCT. 15
	BIRDSFOOT TREFOIL PLUS	95%	6 LBS/AC			
PERMANENT	ANNUAL RYE	95%	30 LBS/AC	10-10-20 N-P205-K20	6 TON/AC AG GRADE*	MARCH 15 –
	PLUS TALL FESCUE	95%	3 LBS/AC			OCT. 15
	SHEEP FESCUE	58.6%				
	ANNUAL RYE GRASS	17%				
	PERENNIAL BLUE FLAX	8%				MARCH 15 TO
	SHASTA DAISY	6%		SEE NOTE 1	SEE NOTE 1 BELOW	
	LANCELEAF COREOPSIS	5%	20-40 LBS./AC.			MARCH 15 TO JUNE 1 AND FROM
MILDFLOWER AND GRASS MIX	BLACKEYED SUSAN	2%		BELOW		AUGUST 1 TO OCTOBER 15
ERNMX-156	CORN POPPY SHIRLEY MIX	1%				
	SPOTTED BEE PALM	1%				
	PARTRIDGE PEA	1%				
	HAIRY BEARD TONGUE	0.4%				
	PATAGONIA TALL FESCUE	70%				
	ANNUAL RYEGRASS	15%				
SEEDWAY EC POND MIX	BOREAL CREEPING RED FESCUE	10%	125 LBS./AC.	SEE NOTE 1 BELOW	SEE NOTE 1 BELOW	MARCH 15 TO JUNE 1 AND FROM AUGUST 1 TO OCTOBER 15
	RED TOP	5%				







NO SCALE

* SEE MANUFACTURER'S LINING INSTALLATION DETAIL FOR STAPLE PATTERNS, VEGETATIVE STABILIZATION FOR SOIL AMENDMENTS, SEED MIXTURES AND MULCHING INFORMATION

CHANNEL CROSS-SECTION

STATIONS	BOTTOM WIDTH B (FT)	DEPTH D (FT)	TOP WIDTH W (FT)	Z1 (FT)	Z2 (FT)	LINING *	STAPLE PATTERN
All	1.5' MIN.	1.0'	7.5'	3'	3'	NAG S-75 OR EQUAL	D

<u>NOTES</u> ANCHOR TRENCHES SHALL BE INSTALLED AT BEGINNING AND END OF CHANNEL IN THE SAME MANNER AS LONGITUDINAL ANCHOR TRENCHES.

CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25%% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

NO MORE THAN ONE THIRD OF THE SHOOT (GRASS LEAF) SHALL BE REMOVED IN ANY MOWING. GRASS HEIGHT SHALL BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED. EXCESS VEGETATION SHALL BE REMOVED FROM PERMANENT CHANNELS TO ENSURE SUFFICIENT CHANNEL CAPACITY.

VEGETATED CHANNEL DETAIL

CHANNEL

SWALE 1

NO SCALE

RUNOFF RATE REDUCTION AND VOLUME REDUCTION CREDIT CAN BE TAKEN FOR THE PROPOSED MRC INFILTRATION BEDS. THE BEDS WILL BE PRE- AND POST-TREATED WITH NON-STRUCTURAL WATER QUALITY BMPS AS IDENTIFIED ON THE PCSM PLAN. STAGING OF EARTHMOVING

POST CONSTRUCTION STORMWATER MANAGEMENT NARRATIVE

THIS NARRATIVE IS INTENDED TO ACCOMPANY THE POST CONSTRUCTION STORMWATER MANAGEMENT PLAN FOR THE PROPOSED SUBDIVISION AND LAND

DEVELOPMENT PLAN FOR THE CANAL STREET POCKET NEIGHBORHOOD, LOCATED NORTH OF GUILFORD STREET, BETWEEN N. 6^{1H} AVE AND N. 7^{IH} AVE IN NORTH LEBANON TOWNSHIP, LEBANON COUNTY. THIS NARRATIVE SHALL BE CONSIDERED A PART OF THE POST CONSTRUCTION STORMWATER

THE TOTAL TRACT OF PROPERTY IN QUESTION IS APPROXIMATELY 2.43 ACRES. THE TOTAL SITE AND EARTH DISTURBANCE AS PART OF THIS PROJECT IS 2.43 ACRES. THE CURRENT SITE CONSISTS OF AN OPEN GRASS FIELD. BASED ON GOOGLE EARTH HISTORICAL IMAGERY, THE SITE HAS BEEN AN OPEN GRASS FIELD SINCE THE EARLY 1990'S. THE SITE IS BORDERD TO THE WEST BY N. 6TH AVE, TO THE EAST BY N. 7TH AVE, AND TO THE NORTH AND

SOUTH BY RESIDENTIAL PROPERTIES. PROPOSED IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A 23-UNIT POCKET NEIGHBORHOOD. ACCESS DRIVE

THE ANTICIPATED SITE DISTURBANCE SHALL INCLUDE GRADING AS WELL AS ADDITIONAL IMPERVIOUS AREA WHICH WILL BE TREATED ON-SITE BY STORMWATER MANAGEMENT BMPS. STORMWATER RUNOFF FROM THE SITE WILL REACH THE QUITTAPAHILLA CREEK WHICH IS DESIGNATED AS A TROUT

STOCKED FISHERY (TSF). THE QUITTAPAHILLA CREEK IS IMPAIRED ACCORDING TO CATEGORY 4C OF THE PA INTEGRATED WATER QUALITY MONITORING

AND ASSESSMENT REPORT FOR AQUATIC LIFE: URBAN RUNOFF/STORM SEWERS - FLOW REGIME MODIFICATION AND STREAMBANK

MODIFICATIONS/DESTABILIZATION - HABITAT ALTERATIONS. THE QUITTAPAHILLA CREEK IS ALSO IMPAIRED ACCORDING TO CATEGORY 5 OF THE PA

POST CONSTRUCTION STORMWATER MANAGEMENT FACILITIES WERE DESIGNED IN ACCORDANCE WITH THE STANDARDS ESTABLISHED IN THE PENNSYLVANIA

A STORMWATER MANAGEMENT CONTROL SYSTEM IS PROPOSED TO CONTROL THE ADDITIONAL RUNOFF GENERATED BY THE PROPOSED IMPROVEMENTS TO A RATE LESSER THAN THE PRE-DEVELOPMENT RUNOFF. THE SITE WILL BE SERVED BY THE PROPOSED STORMWATER MANAGEMENT BMPS WHICH CAPTURE

AND SLOWLY RELEASE RUNOFF FROM THE PROJECT SITE. SEVERAL STRUCTURAL STORMWATER BMPS ARE PROPOSED INCLUDING FIVE (5) SUBSURFACE

MRC STONE BEDS. THE PROPOSED BMPS WILL ACCOMPLISH THE GOAL OF DECREASING RUNOFF VOLUME AND RATE FROM PRE-DEVELOPMENT TO POST-DEVELOPMENT CONDITIONS. THIS CAN BE SEEN IN THE SUMMARY OF FLOW TABLE AND ON THE DEP PCSM SPREADSHEETS.

SITE AFTER DEVELOPMENT TO ALL POINTS OF DISCHARGE DOES NOT EXCEED THE PEAK PRE-DEVELOPMENT DISCHARGE PER THE FOLLOWING TABLE.

EXISTING CONDITION DESIGN STORM

1–YFAR

1–YEAR

2-YEAR

5–YEAR

25–YEAR

50-YEAR

100-YEAR

WITHIN THE BOUNDARIES OF THE DEVELOPMENT SITE ARE DESIGNED FOR A TWENTY-FIVE-YEAR AND 100-YEAR STORM EVENT

PER THE LEBANON COUNTY STORMWATER MANAGEMENT ORDINANCE, THE FACILITIES SHALL BE DESIGNED SUCH THAT THE PEAK DISCHARGE FROM THE

THE SOIL CONSERVATION SERVICE METHOD WAS USED TO DETERMINE PRE- AND POST-DEVELOPMENT RATES FOR THE DRAINAGE AREAS ON THE

THE MODIFIED RATIONAL METHOD WAS USED TO CALCULATE INLET, CULVERT, AND PIPE FLOWS AND HYDRAFLOW STORM SEWERS 2014 WAS USED T

ANALYZE THE PROPOSED STORM SEWER SYSTEM. ALL STORM SEWER PIPES, CULVERTS, GUTTERS, AND SWALES CONVEYING WATER ORIGINATING FROM

ALL EXISTING SITE RUNOFF CURRENTLY LEAVES THE SITE UN-DETAINED WITH NO TREATMENT OF THIS RUNOFF IN ANY WAY. FIVE (5) SUBSURFACE

STONE BEDS ARE PROPOSED TO TREAT THE MAJORITY OF THE DISTURBED SITE AND PROPOSED IMPERVIOUS AREAS. RUNOFF REACHING THE STONE BEDS

WILL BE COOLED BY NATURE OF THE SUBSURFACE FACILITY AND WILL THEN BE RELEASED SLOWLY USING THE DEP'S MANAGED RELEASE CONCEPT

(MRC). TREES ARE ALSO PROPOSED IN AND AROUND THE STREETS TO SHADE THESE AREAS WHICH WILL PROVIDE TEMPERATURE RELIEF FOR RUNOFF

THE ENTIRE 2-YEAR VOLUME INCREASE IS PROPOSED TO BE MANAGED THROUGH THE MANAGED RELEASE CONCEPT UTILIZING THE SUBSURFACE STONE

BEDS. THUS, THE PROJECT IS DESIGNED TO MEET THE GUIDELINES OF THE PAG-02 GENERAL NPDES PERMIT PER THE RECENTLY RELEASED DEP

GUIDANCE AND CALCULATION WORKSHEETS. ADDITIONAL NON-STRUCTURAL BMPS ARE PROPOSED TO PROVIDE PRE-TREATMENT FOR THE SUBSURFACE

THE FOLLOWING IS AN EXCERPT FROM THE PA DEP FAQ SHEET LABELED OFF-SITE DISCHARGES OF STORMWATER TO NON-SURFACE WATERS (JANUARY

THROUGH A COMMON LAW EASEMENT OR AN EXPRESS EASEMENT. FOR SITES THAT DISCHARGE TO EXISTING SWALES, DITCHES, STORM SEWERS OR

SIMILAR STRUCTURES WHERE THE NEW ACTIVITIES WILL NOT RESULT IN A CHANGE IN VOLUME OR RATE OF STORMWATER RUNOFF (FOR ALL STORM

THE SITE DISCHARGES TO AN EXISTING STORM SEWER SYSTEM IN A SIMILAR MANNER AT A RATE THAT IS LESS THAN PRE-DEVELOPMENT FOR ALL

THE FOLLOWING SOILS ARE FOUND WITHIN OR ADJACENT TO THE AREA TO BE DISTURBED BY EARTH MOVING ACTIVITIES. THESE SOILS CAN ERODE WHEN DISTURBED. EROSION WILL BE CONTROLLED WITH STANDARD EROSION CONTROLS SUCH AS FILTER SOCK, SLOPE AND SWALE MATTING, ROCK

THE PA DEP'S EMAPPA DOES NOT IDENTIFY ANY KARST FEATURES ON THE PROJECT SITE OR ON ANY ADJACENT PROPERTIES. THE SITE IS PRIMARILY

UNDERLAIN BY THE ONTELAUNEE FORMATION WHICH IS COMPRISED OF DOLOMITE, LIMESTONE AND CHERT. BOTH LIMESTONE AND DOLOMITE ARE

SUSCEPTIBLE TO KARST ACTIVITY. SHOULD A GEOTECHNICAL HAZARD BE ENCOUNTERED, A GEOTECHNICAL ENGINEER WILL BE IMMEDIATELY CONTACTED.

BEDINGTON SOILS - THE BEDINGTON SERIES CONSISTS OF VERY DEEP, WELL DRAINED SOILS, BEDINGTON SOILS FORMED IN RESIDUUM FROM DAR

CONVEX UPLANDS AND ON THE SIDESLOPES OF HILLS AND RIDGES. PERMEABILITY IS MODERATE. MEAN ANNUAL PRECIPITATION IS 42 INCHES. MEAN ANNUAL TEMPERATURE IS 52 DEGREES F. BEDINGTON SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE INS AND CORROSIVE TO CONCRETE. THIS

SOIL MAY ALSO BE SUBJECT TO DROUGHT AND MAY BE EASILY ERODIBLE. BEDINGTON SOILS MAY ALSO BE SUSCEPTIBLE TO HYDRIC INCLUSIONS, SLOW

AGERSTOWN SOILS - THE HAGERSTOWN SERIES CONSISTS OF DEEP AND VERY DEEP, WELL DRAINED SOILS FORMED IN RESIDUUM OF HARD GRAY

• CUT-BANK CAVING: ALL APPLICABLE OSHA STANDARDS AND REGULATIONS SHALL BE IMPLEMENTED AT ALL TIMES DURING TRENCHING AND

• CORROSION OF STEEL AND CONCRETE: ALL UNDERGROUND FOUNDATIONS AND STRUCTURES SHALL BE PROPERLY PROTECTED AGAINST CORROSION, WHICH MAY INCLUDE COATING THESE STRUCTURES WITH CORROSION-RESISTANT MATERIAL.

• EASILY ERODIBLE: EROSION AND SEDIMENT POLLUTION CONTROLS WILL BE IMPLEMENTED TO AVOID THE TRANSPORTATION OF SEDIMENT-LADEN WATER

• DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE: THE SITE MAY REQUIRE DEWATERING OF PITS DURING CONSTRUCTION, I.E. WHEN

• LOW STRENGTH/LANDSLIDE PRONE: THE MAXIMUM PROPOSED SLOPE ON THE SITE IS 3:1. THIS WILL REDUCE THE POTENTIAL FOR EROSION AND LAND

• SLOW PERCOLATION: INFILTRATION TESTING YIELDED NEGLIGIBLE INFILTRATION RESULTS ACROSS THE SITE. AS SUCH, ALL BMPS ARE DESIGNED

• POOR SOURCE OF TOPSOIL: THE ADEQUACY OF THE TOPSOIL WILL BE EVALUATED UPON THE COMMENCEMENT OF EXCAVATION. AS MUCH OF THE

• FROST ACTION: THE PROJECT'S IMPERVIOUS SURFACES SHALL BE GRADED AT A MINIMUM OF 2% IN ONE DIRECTION, SO THAT WATER WILL NOT

• SHRINK/SWELL: ALL SITE GRADING SHALL DIRECT WATER AWAY FROM BUILDINGS AND OTHER IMPERVIOUS SURFACES TO REDUCE THE LIKELIHOOD OF

• SINKHOLE FORMATION: NO KARST FEATURES ARE IDENTIFIED ON SITE. SHOULD A GEOTECHNICAL HAZARD BE ENCOUNTERED, A GEOTECHNICAL

AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER

INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR

. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FIL

4. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD

7. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR

THE PA DEP'S EMAPPA DOES NOT IDENTIFY ANY KARST FEATURES ON THE PROJECT SITE OR ON ANY ADJACENT PROPERTIES. THE SITE IS PRIMARILY

UNDERLAIN BY THE ONTELAUNEE FORMATION WHICH IS COMPRISED OF DOLOMITE. LIMESTONE AND CHERT. BOTH LIMESTONE AND DOLOMITE ARE

INFILTRATION TESTING AND PROBE HOLES HAVE BEEN CONDUCTED ACROSS THE SITE. BASED ON THE RECOMMENDATIONS OF THE INFILTRATION TESTING REPORT AS PREPARED BY HORVAT EXCAVATING. THE STORMWATER FACILITIES WILL NOT RELY ON INFILTRATION FOR VOLUME MANAGEMENT. INSTEAD

STORMWATER FACILITIES ARE DESIGNED TO MANAGE STORMWATER RUNOFF IN ACCORDANCE WITH THE MANAGED RELEASE CONCEPT AND THE ASSOCIATED

SHORT-TERM OWNERSHIP, OPERATIONS AND MAINTENANCE OF THE PCSM BMPS WITHIN THE SITE BOUNDARY IS THE RESPONSIBILITY OF THE

LONG-TERM OWNERSHIP, OPERATIONS AND MAINTENANCE OF THE PCSM BMPS IS THE RESPONSIBILITY OF THE PROPERTY OWNER, HEREIN IDENTIFIED AS

A SUBSURFACE INFILTRATION BED GENERALLY CONSISTS OF A STORMWATER DISTRIBUTION SYSTEM UNDERLAIN BY A UNIFORMLY GRADED AGGREGATE BED

FOR TEMPORARY STORAGE OF STORMWATER RUNOFF. THE STORAGE MEDIA FOR SUBSURFACE BEDS TYPICALLY CONSIST OF CLEAN-WASHED, UNIFORMLY GRADED AGGREGATE OR PROPRIETARY CHAMBERS. WHEN DESIGNED, CONSTRUCTED, AND MAINTAINED PER THE BMP MANUAL GUIDELINES, SUBSURFACE

INFILTRATION FEATURES CAN STAND-ALONE AS A SIGNIFICANT STORMWATER RUNOFF RATE AND WATER QUALITY PRACTICES. THEY HAVE THE ADDED

SUBSURFACE MRC INFILTRATION BEDS A THROUGH E ARE LOCATED ACROSS THE SITE AND TREAT STORMWATER FROM THE ACCESS DRIVE, PARKING AREAS, AND BUILDING ROOFS. THE PRIMARY FUNCTION OF THIS BMP IS TO MANAGE THE STORMWATER RUNOFF RATE AND VOLUME PRIOR TO LEAVING

SUSCEPTIBLE TO KARST ACTIVITY. SHOULD A GEOTECHNICAL HAZARD BE ENCOUNTERED, A GEOTECHNICAL ENGINEER WILL BE IMMEDIATELY CONTACTED.

COLLECT ON THE SURFACE AND CAUSE DAMAGE DURING FREEZE/THAW CYCLES. CRACKS WHICH DEVELOP IN THE IMPERVIOUS SURFACES SHALL BE

POURING FOOTERS, EXCAVATING TRENCHES, DEWATERING BASINS, ETC. THE GEOTECHNICAL EXPLORATION DID ENCOUNTER AREAS OF HIGH-GROUNDWATER. SHOULD DEWATERING BE REQUIRED, A SUMP PIT AND FILTER BAG SHALL BE UTILIZED, AND WATER SHALL BE PUMPED TO AN

LIMESTONE. SLOPE RANGES FROM 0 TO 45 PERCENT. PERMEABILITY IS MODERATE. MEAN ANNUAL PRECIPITATION IS 30 TO 45 INCHES. MEAN ANNUAL

CONCRETE. THIS SOIL MAY ALSO BE EASILY ERODIBLE AND SUBJECT TO A SEASONALLY HIGH WATER TABLE, HYDRIC INCLUSIONS, LOW STRENGTH, SLOW PERCOLATION, PIPING, AND A POOR SOURCE OF TOPSOIL. HAGERSTOWN SOILS MAY ALSO BE SUSCEPTIBLE TO FROST ACTION, SHRINK-SWELL, AND

ROWN, GRAY AND OLIVE ACID, SEDIMENTARY, SILTSTONE AND SHALE, WITH SOME SANDSTONE INTERBEDS. THEY ARE ON NEARLY LEVEL

AIR TEMPERATURE IS 45 TO 58 DEGREES. HAGERSTOWN SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE INS AND CORROSIVE TO STEEL

HYDROLOGIC GROUP

B

SLOPE_

3-8%

2019). FAQ #2 STATES, "PERSONS PROPOSING TO DISCHARGE MUST HAVE THE LEGAL AUTHORITY TO DISCHARGE THEIR STORMWATER EITHER

10, 25, 50, AND 100-YEAR STORMS. HYDROCAD VERSION 10.0 WAS USED TO PERFORM ALL

STORMWATER MANAGEMENT BMP MANUAL (PA DEP BUREAU OF WATERSHED MANAGEMENT, DECEMBER 2006), AND THE LEBANON COUNTY STORMWATER

INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT FOR RECREATIONAL: SOURCE UNKNOWN - PATHOGENS.

CONNECTION TO PUBLIC SEWER AND WATER, AND STORMWATER MANAGEMENT FACILITIES GENERALLY CONSISTING OF FIVE (5) SUBSURFACE STONE BEDS.

CANAL STREET POCKET NEIGHBORHOOD

MANAGEMENT PLAN.

PROJECT DETAILS

CALCULATIONS

HYDROLOGY

1-YFAR

2–YEAR

5–YEAR

10-YEAR

25-YEAR

50-YEAR

100-YEAR

THERMAL IMPACTS ANALYSIS

OFFSITE DISCHARGE ANALYSIS

SOIL INFORMATION AND GEOLOGY

MAP SYMBOL SOIL NAME

BMPS.

STORM EVENTS.

BeB

US

SINKHOLES.

OFF-SITE.

SLIDE ACTION.

PROMPTLY SEALED.

OBJECTIONABLE MATERIAL.

<u>SOIL NOTES</u>

SOIL USE LIMITATIONS AND RESOLUTIONS

UTILIZING MRC DESIGN STANDARDS.

EXCAVATION OPERATIONS.

MANAGEMENT ORDINANCE.

PROPOSED CONDITION DESIGN STORM

SHALL NOT EXCEED

EVENTS), THE EXISTING COMMON LAW EASEMENT COULD BE RELIED UPON.'

BASIN ROUTING CALCULATIONS. THE CN VALUES ARE TAKEN FROM NRCS TR-55.

PROJECT SITE RUNOFE WAS CALCULATED FOR THE 1 2

THAT FLOWS OVER THE IMPERVIOUS SURFACES.

WATER QUALITY AND NON-DISCHARGE ANALYSIS

CONSTRUCTION ENTRANCES, AND INLET PROTECTION

BEDINGTON SHALY SILT LOAM

URBAN LAND-HAGERSTOWN COMPLEX

RCOLATION, FROST ACTION, AND A POOR SOURCE OF TOPSOIL.

UNDISTURBED AREA UPSTREAM OF A PERIMETER CONTROL BMP SUCH AS A FILTER SOCK.

• PIPING: ANTI-SEEP COLLARS WILL BE PROVIDED AS PART OF THE PCSM AND PIPELINE DESIGNS.

3. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

GUIDANCE DOCUMENTS AS AN ACCEPTED AND APPROVED METHOD OF STORMWATER MANAGEMENT BY THE PA DEP.

BENEFIT OF FUNCTIONING YEAR-ROUND, GIVEN THAT THE WATER SURFACE IS TYPICALLY BELOW THE FROST LINE.

THE SITE. PLEASE SEE THE PCSM PLAN AND REPORT FOR DETAILS, SPECIFICATIONS AND CALCULATIONS.

5. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.

• HYDRIC SOILS/HYDRIC INCLUSIONS: NO WETLANDS WERE IDENTIFIED ON SITE.

SITE IS AN OPEN GRASS FIELD, THE TOPSOIL IS EXPECTED TO BE SUFFICIENT.

WATER INFILTRATING NEAR OR UNDER THESE STRUCTURES.

INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.

CONTRACTOR, WHO SHALL BE LISTED AS THE CO-PERMITTEE ON THE NPDES PERMIT.

INDIVIDUAL BMP DESCRIPTION, CONSTRUCTION SEQUENCE, AND MAINTENANCE

6. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.

SUBSURFACE DRAIN OR OTHER APPROVED METHOD

KARST TOPOGRAPHY / INFILTRATION TESTING NOTES

OWNERSHIP, OPERATIONS AND MAINTENANCE

COMMUNITY HOMES OF LEBANON COUNTY, INC.

SUBSURFACE MRC INFILTRATION BED

ENGINEER WILL BE IMMEDIATELY CONTACTED.

SHALL NOT EXCEED

LARVAF

2. ALL PLANTS MATERIAL SHALL BE DELIVERED, STORED, AND INSTALLED IN ACCORDANCE WITH GOOD LANDSCAPE PRACTICES.

1. ALL PLANT MATERIAL TO BE NURSERY GROWN IN A CLIMATE SIMILAR TO THAT OF THE LOCALITY OF THE PROJECT AND SHALL HAVE A NORMAL HABIT OF GROWTH AND SHALL BE SOUND, HEALTHY, AND VIGOROUS. PLANTS SHALL BE FREE OF DEFECTS, DISEASE, INSECT EGGS, AND

3. PREPARE SOLS IN BASIN BOTTOMS & RESTORE COMPACTED SOLS IN ACCORDANCE WITH SOL AMENDMENT SPECIFICATIONS.

GENERAL NOTES

• LITTER CLEANED FROM PCSM BMPS SHALL BE DISPOSED OF IN A TRASH RECEPTACLE FOR PICK UP BY THE LOCAL REFUSE HAULER.

WASTES INCLUDE, BUT ARE NOT LIMITED TO EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, EXISTING ON-SITE REFUSE, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1., AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE. WASTE MATERIALS WITH OR FROM THE POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) BEST MANAGEMENT PRACTICES (BMPS): • SEDIMENT DEPOSITED AND ACCUMULATED IN PCSM BMPS SHALL BE REMOVED FROM THE BMP AND DISPOSED OF PROPERLY. • CUTTINGS AND TRIMMINGS FROM PCSM BMPS SHALL BE DISPOSED OF IN A LOCAL COMPOSTING FACILITY.

THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES ON OR OFF THE SITE. THESE BUILDING

2. DURING THE INSTALLATION OF THE IMPERVIOUS LINER (IF REQUIRED), GEOTEXTILE, AGGREGATE, DISTRIBUTION SYSTEM, AND OUTLET STRUCTURE. 3. AT THE COMPLETION OF THE INSTALLATION OF THE SUBSURFACE MRC BED. PROJECT WASTES NOTES

SUBSURFACE MRC INFILTRATION BEDS: . DURING EXCAVATION AND PREPARATION OF THE BED BOTTOM.

DRMWATER CONTROLS. THE CONTRACTOR SHALL CONTACT STECKBECK ENGINEERING AT (717) 272-7110 FOR INSPECTION BY THE DESIGN ENGINEER

DETERMINED TO BE A VIOLATION OF THE NPDES PERMIT BMP CRITICAL STAGES PER REQUIREMENTS OF THE PA DEP, A LICENSED PROFESSIONAL OR DESIGNEE MUST BE PRESENT FOR THE INSTALLATION OF ALL BMP AND BEFORE BEGINNING THE FOLLOWING CONSTRUCTION ACTIVITIES:

6. AFTER ALL EARTHMOVING ACTIVITY HAS CEASED AND THE ENTIRE PERMITTED AREA IS PERMANENTLY STABILIZED, THE PERMITTEE MUST SUBMIT A NOTICE OF TERMINATION TO THE LOCAL COUNTY CONSERVATION DISTRICT TO CLOSE OUT THE PERMIT. ALLOWING THE NPDES PERMIT TO EXPIRE IS

DEP OR COUNTY CONSERVATION DISTRICT PERSONNEL

4. SITE INSPECTIONS AND MONITORING REPORTS - THE PERMITTEE AND CO-PERMITTEE(S) SHALL COMPLY WITH ALL OF THE MONITORING AND REPORTING REQUIREMENTS. AS OUTLINED IN PART A.2 OF THE NPDES PERMIT. THE PERMITTEE AND CO-PERMITTEE(S) SHALL ENSURE THAT SITE INSPECTIONS ARE CONDUCTED AT LEAST WEEKLY AND AFTER EACH MEASUREABLE PRECIPITATION EVENT BY QUALIFIED PERSONNEL. A WRITTEN REPORT SHALL BE KEPT FOR EACH INSPECTION IN ACCORDANCE WITH THE REQUIREMENTS OF PART A.2.A. 5. THE DEP "VISUAL INSPECTION CHECKLIST" SHOULD BE COMPLETED FOR EACH INSPECTION AND SHOULD BE AVAILABLE ON-SITE FOR INSPECTION BY

ADMINISTRATIVELY COMPLETE AND ACCEPTABLE NOI, AT LEAST 90 DAYS PRIOR TO THE EXPIRATION DATE OF THE COVERAGE. 3. CURRENT NPDES PERMIT REQUIRES THE INSPECTION OF E&S AND PCSM BMPS TO OCCUR AFTER STORM EVENTS OF 0.25 INCHES OR GREATER.

2. ALL EARTHMOVING CONTRACTORS MUST BE ADDED AS CO-PERMITTEES TO THE NPDES PERMIT

STABILIZED 5. INSTALL FLEXSTORM INLET FILTERS AND STORMTANK® SHIELDS AS SPECIFIED ON THE PCSM PLAN. 6. APPLY THE SPECIFIED PERMANENT STABILIZATION ACROSS THE SITE, INCLUDING ANY AREAS OF RE-VEGETATION / RE-FORESTATION. NPDES PERMIT NOTES

3. EXCAVATE TO INSTALL SUBSURFACE MRC STONE BEDS A - E.

THE COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.

2. REMOVE THE LID FROM THE CONCRETE DRAINAGE STRUCTURE

CONSTRUCTION SEQUENCE

STRUCTURES.

MAINTENANCE

PROGRAM MANUAL) DURING CONSTRUCTION.

3. ALL BED BOTTOMS SHOULD BE AT LEVEL GRADE.

CUT BACK TO THE EDGE OF THE BED.

8. SEED AND STABILIZE TOPSOIL

HOURS AFTER A RAINFALL EVENT.

TO WORKING CONDITION

OWNER AT ALL TIMES.

SPECIFICATIONS AND CALCULATIONS.

CONSTRUCTION SEQUENCE

(LIP) OF THE CASTING.

OWNER AT ALL TIMES.

CONSTRUCTION SEQUENCE

MOUNTING FLANGE.

OWNER AT ALL TIMES.

OVERALL PCSM CONSTRUCTION SEQUENCE

MAINTENANCE

THE BAG AROUND THE FRAME CHANNEL.

CONTINUE ITS FLOW INTO THE STORM SYSTEM.

MAINTENANCE

2. UPON INSTALLATION OF E&S CONTROLS, LOCATE AND FLAG THE FOLLOWING AREAS ACCORDING THE PCSM PLAN: SUBSURFACE MRC STONE BEDS A

4. AFTER THE BUILDING AND PARKING AREAS ARE CONSTRUCTED ADD TOPSOIL TO THE POST-CONSTRUCTION PERVIOUS AREAS TO BE PERMANENTLY

1. DUE TO THE NATURE OF CONSTRUCTION SITES, SUBSURFACE FACILITIES SHOULD BE INSTALLED TOWARD THE END OF THE CONSTRUCTION PERIOD, IF POSSIBLE. (SUBSURFACE BEDS MAY BE USED AS TEMPORARY SEDIMENT BASINS OR TRAPS AS DISCUSSED ABOVE). 2. INSTALL AND MAINTAIN ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES (AS PER THE PENNSYLVANIA EROSION AND SEDIMENTATION CONTROL

4. INSTALL UPSTREAM AND DOWNSTREAM CONTROL STRUCTURES, CLEANOUTS, PERFORATED PIPING, AND ALL OTHER NECESSARY STORMWATER 5. IMPERVIOUS LINERS, GEOTEXTILE, AND BED AGGREGATE SHOULD BE PLACED IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION AND INSTALLATION OF STRUCTURES. GEOTEXTILE SHOULD BE PLACED IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF GEOTEXTILE SHOULD OVERLAP A MINIMUM OF 16 INCHES. IT SHOULD ALSO BE SECURED AT LEAST 4 FEET OUTSIDE OF BED IN DRDER TO PREVENT ANY RUNOFF OR SEDIMENT FROM ENTERING THE STORAGE BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED. AS THE SITE IS FULLY STABILIZED, EXCESS GEOTEXTILE ALONG BED EDGES CAN BE 6. CLEAN-WASHED, UNIFORMLY GRADED AGGREGATE SHOULD BE PLACED IN THE BED IN MAXIMUM 8-INCH LIFTS. EACH LAYER SHOULD BE LIGHTLY COMPACTED, WITH CONSTRUCTION EQUIPMENT KEPT OFF THE BED BOTTOM AS MUCH AS POSSIBLE.

7. APPROVED SOIL MEDIA OR AGGREGATE SHOULD BE PLACED OVER SUBSURFACE BED IN MAXIMUM 6-INCH LIFTS

9. DO NOT REMOVE INLET PROTECTION OR OTHER EROSION AND SEDIMENT CONTROL MEASURES UNTIL SITE IS FULLY STABILIZED.

SURFACE DETENTION IS GENERALLY LESS MAINTENANCE INTENSIVE THAN OTHER PRACTICES OF ITS TYPE. MAINTENANCE ACTIVITIES REQUIRED FOR THE SUBSURFACE BED ARE SIMILAR TO THOSE OF ANY STORM SEWER CONVEYANCE SYSTEM AND FOCUS ON REGULAR SEDIMENT AND DEBRIS REMOVAL. THE FOLLOWING REPRESENTS THE RECOMMENDED MAINTENANCE EFFORTS:

THE SUBSURFACE FACILITY SHALL BE INSPECTED AT LEAST 2 TIMES PER YEAR TO ENSURE THAT THE FACILITY CONTINUES TO DEWATER WITHIN 72 SHOULD THE SUBSURFACE DETENTION FACILITY FAIL TO DEWATER WITHIN 72 HOURS. A LICENSED PROFESSIONAL KNOWLEDGEABLE IN STORMWATER MANAGEMENT PRACTICES SHALL BE CONTACTED TO PROVIDE POTENTIAL REASONS FOR FAILURE AND A PLAN OF ACTION TO REPAIR THE PCSM BMPS

ALL INLETS TO THE SYSTEM SHOULD BE INSPECTED AND CLEANED OUT ANNUALLY. WRITTEN REPORTS DOCUMENTING ALL INSPECTIONS, REPAIRS, AND MAINTENANCE ACTIVITIES SHALL BE MAINTAINED ON SITE BY THE PROPERTY BMP 6.6.4: WATER QUALITY FILTERS AND HYDRODYNAMIC DEVICES - FLEXSTORM

THE PROPOSED PROPRIETARY WATER QUALITY FILTER SYSTEM IS DESIGNED TO REDUCE FLOATABLE TRASH AND DEBRIS. FREE OILS. AND OTHER SOLIDS FROM STORMWATER DISCHARGES. IN ITS MOST BASIC APPLICATION, A WATER QUALITY FILTER IS INSTALLED INSIDE A CATCH BASIN AND FILTERS THE RUNOFF PRIOR TO LEAVING EACH CATCH BASIN. THE SPECIFIED INLET FILTER IS DESIGNED TO CAPTURE AND RETAIN PAPER. PLASTIC. STYROFOAM AND OTHER FLOATABLE DEBRIS. USING A FILTER FABRIC CONSISTING OF A PROPRIETARY BLEND OF TREATED FIBERS WITHIN THE INLET FILTER "HOUSING" HYDROCARBONS ARE REMOVED FROM THE WATER STREAM, WHILE ALLOWING THE TREATED WATER TO CONTINUE ITS FLOW INTO THE STORM SYSTEM.

WATER QUALITY DEVICES ARE PROPOSED AS PART OF THE STORM SEWER SYSTEM IN ORDER TO PRE-TREAT RUNOFF FROM THE PARKING LOT PRIOR TO ENTERING THE SUBSURFACE BMPS. WHEN PROPERLY IMPLEMENTED, WATER QUALITY INSERTS CAN REMOVE SIXTY PERCENT (60%) OF THE TOTA SUSPENDED SOLIDS, FIFTY PERCENT (50%) OF THE TOTAL PHOSPHOROUS, AND TWENTY PERCENT (20%) OF THE NITRATES. THE PRIMARY FUNCTION O THIS BMP IS TO THE WATER QUALITY OF RUNOFF PRIOR TO LEAVING THE SITE. PLEASE SEE THE PCSM PLAN AND REPORT FOR DETAILS,

1. INSTALL PCSM WATER QUALITY FILTERS ONLY AFTER THE TRIBUTARY AREA IS STABLE 2. REMOVE THE GRATE FROM THE CASTING OR CONCRETE DRAINAGE STRUCTURE.

3. CLEAN THE LEDGE (LIP) OF THE CASTING FRAME OR DRAINAGE STRUCTURE TO ENSURE IT IS FREE OF STONE AND DIRT. 4. DROP IN THE FLEXSTORM INLET FILTER THROUGH THE CLEAR OPENING AND BE SURE THE SUSPENSION HANGERS REST FIRMLY ON THE INSIDE LEDGE

• EMPTY THE SEDIMENT BAG IF MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS, OR AS DIRECTED BY THE ENGINEER. • REMOVE THE GRATE, ENGAGE THE LIFTING BARS OR HANDLES WITH THE FLEXSTORM REMOVAL TOOL, AND LIFT FROM THE DRAINAGE STRUCTURE. • DISPOSE OF THE SEDIMENT OR DEBRIS AS DIRECTED BY THE ENGINEER OR MAINTENANCE CONTRACT IN ACCORDANCE WITH EPA GUIDELINES. • AS AN ALTERNATIVE, AN INDUSTRIAL VACUUM MAY BE USED TO COLLECT THE ACCUMULATED SEDIMENT.

• REMOVE ANY CAKED-ON SILT FROM THE SEDIMENT BAG AND REVERSE FLUSH THE BAG WITH MEDIUM SPRAY FOR OPTIMAL FILTRATION. • REPLACE THE BAG IF TORN OR PUNCTURED TO $\frac{1}{2}$ " DIAMETER OR GREATER ON THE LOWER HALF OF THE BAG.

• DISPOSE OF ALL OIL CONTAMINATED PRODUCTS IN ACCORDANCE WITH EPA GUIDELINES. • REMOVE THE BAG BY LOOSENING OR CUTTING OFF THE CLAMPING BAND.

5. REPLACE THE GRATE AND CONFIRM IT IS ELEVATED NO MORE THAN 1/8", WHICH IS THE THICKNESS OF THE STEEL HANGERS.

• TAKE THE NEW SEDIMENT BAG, WHICH IS EQUIPPED WITH A STAINLESS-STEEL WORM DRIVE CLAMPING BAND, AND USE A SCREW DRIVER TO TIGHTEN • ENSURE THE BAG IS SECURE AND THAT THERE IS NO SLACK AROUND THE PERIMETER OF THE BAND.

• WRITTEN REPORTS DOCUMENTING ALL INSPECTIONS, REPAIRS, AND MAINTENANCE ACTIVITIES SHALL BE MAINTAINED ON SITE BY THE PROPERTY

BMP 6.6.4: WATER QUALITY FILTERS AND HYDRODYNAMIC DEVICES - STORMTANK SHIELD

THE PROPOSED PROPRIETARY WATER QUALITY FILTER SYSTEM IS DESIGNED TO REDUCE FLOATABLE TRASH AND DEBRIS. FREE OILS. AND OTHER SOLIDS FROM STORMWATER DISCHARGES. IN ITS MOST BASIC APPLICATION, A WATER QUALITY FILTER IS INSTALED INSIDE A STRUCTURE AND FILTERS THE RUNOFF PRIOR TO LEAVING EACH STRUCTURE THE SPECIFIED FILTER IS DESIGNED TO CAPTURE AND RETAIN PAPER, PLASTIC, STYROFOAM AND OTHER FLOATABLE DEBRIS. USING A POLYETHYLENE SHIELD, FLOATABLES, OILS, AND HEAVY DEBRIS ARE REMOVED WHILE ALLOWING THE TREATED WATER TO

STORMTANK® SHIELDS ARE PROPOSED AS PART OF THE STORM SEWER SYSTEM IN ORDER TO POST-TREAT RUNOFF FROM THE SUBSURFACE MRC INFILTRATION BEDS PRIOR TO DISCHARGE. WHEN PROPERLY IMPLEMENTED, WATER QUALITY INSERTS CAN REMOVE SIXTY PERCENT (60%) OF THE TOTAL SUSPENDED SOLIDS, FIFTY PERCENT (50%) OF THE TOTAL PHOSPHOROUS, AND TWENTY PERCENT (20%) OF THE NITRATES. THE PRIMARY FUNCTION OF THIS BMP IS TO THE WATER QUALITY OF RUNOFF PRIOR TO LEAVING THE SITE. PLEASE SEE THE PCSM PLAN AND REPORT FOR DETAILS,

1. INSTALL PCSM WATER QUALITY FILTERS ONLY AFTER THE TRIBUTARY AREA IS STABLE.

3. PREPARE STORMTANK® SHIELD FOR INSTALLATION BY APPLYING NEOPRENE FOAM GASKET (SUPPLIED BY MANUFACTURER) TO REAR FACE OF THE 4. LOCATE SHIELD OVER OUTLET PIPE AND UTILIZING THE PRE-DRILL HOLES IN THE SHIELD, DRILL PILOT HOLES INTO THE STRUCTURE. 5. SECURE SHIELD TO STRUCTURE UTILIZING FASTENERS (SUPPLIED BY MANUFACTURER). REPLACE THE LID.

• INSPECT FILTERS AT LEAST TWO TIMES PER YEAR. REMOVE ALL FLOATABLES, DEBRIS, AND ACCUMULATED SEDIMENT. • DISPOSE OF THE SEDIMENT OR DEBRIS AS DIRECTED BY THE ENGINEER OR MAINTENANCE CONTRACT IN ACCORDANCE WITH EPA GUIDELINES.

• AS AN ALTERNATIVE, AN INDUSTRIAL VACUUM MAY BE USED TO COLLECT THE ACCUMULATED SEDIMENT

• REPLACE THE STORMTANK ® SHIELD IF VISIBLY PUNCTURED OR BROKEN. • DISPOSE OF ALL OIL CONTAMINATED PRODUCTS IN ACCORDANCE WITH EPA GUIDELINES. • WRITTEN REPORTS DOCUMENTING ALL INSPECTIONS, REPAIRS, AND MAINTENANCE ACTIVITIES SHALL BE MAINTAINED ON SITE BY THE PROPERTY

1. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE OF

CONSTRUCTION OF THE SITE IMPROVEMENTS IS EXPECTED TO BEGIN IN THE SPRING OF 2022. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. CONSTRUCTION WILL PROCEED IN A TIMELY MANNER IN ORDER TO LIMIT THE)TENTIAL FOR ACCELERATED EROSION AND SEDIMENTATION. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POT FOR ACCELERATED FROSION AND OR SEDIMENT POLILITION. THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION. SHOULD ANY SINKHOLES OR GROUNDWATER SOURCES BE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER IMMEDIATELY. 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. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED AND MMEDIATELY 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 FROM THE COUNTY CONSERVATION

SEQUENCE OF CONSTRUCTION

- 1. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE CONTRACTOR SHALL INVITE ALL SUB-CONTRACTORS, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE CIVIL ENGINEER, AND A REPRESENTATIVE OF THE LOCAL COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. PERIMETER E&S CONTROLS MAY BE INSTALLED PRIOR TO THE CONSTRUCTION MEETING. PRE-CONSTRUCTION MEETING.
- 2. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM
- THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY DEP PRIOR TO IMPLEMENTATION.
- 4. INSTALL EXTENDED ROCK CONSTRUCTION ENTRANCE AS SHOWN ON THE ATTACHED PLAN. THE LIMITS OF DISTURBANCE (LOD) SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES (I.E. SURVEY STAKES, POSTS & ROPE, CONSTRUCTION
- 6. LOCATE, STAKE, AND FLAG AREAS MARKED AS PCSM BMP'S (I.E. STONE BEDS A THROUGH E) REFER TO PCSM PLAN FOR ADDITIONAL INFORMATION AND LOCATION OF PCSM BMP'S. THESE AREAS SHOULD AVOID COMPACTION DURING CONSTRUCTION.
- INSTALL SILT SOCK ON THE SITE AT LOCATIONS 5-19 AS INDICATED ON THE ATTACHED PLAN. SILT SOCK IS TO BE INSTALLED ALONG THE CONTOUR WHERE POSSIBLE, AT A LEVEL GRADE. THE SILT SOCK SHOULD BE POSITIONED IN SUCH A WAY AS TO PREVENT ANY SEDIMENT FROM LEAVING THE SITE. SEDIMENT ACCUMULATING TO HALF THE HEIGHT OF THE SILT SOCK SHALL BE REMOVED IN ORDER TO RESTORE THE SEDIMENT STORAGE OF THESE AREAS. IN THE CASE OF A FAILURE OF THE SILT SOCK DUE TO HIGH FLOWS, A ROCK FILTER OUTLET SHALL BE INSTALLED ACROSS THE FAILED PORTION OF THE SILT SOCK. AT NO POINT SHALL UN-STABILIZED AREA DRAIN OFFSITE UNCONTROLLED.
- 8. PER NEW NPDES REQUIREMENTS. "UPON THE INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 DAYS O PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT."
- 9. IF SOIL IS TAKEN TO OR BORROWED FROM ANOTHER CONSTRUCTION SITE, SAID SITE MUST HAVE AN APPROVED E&SPC PLAN. SEE THE "SOIL LIMITATIONS AND RESOLUTIONS" SECTION OF THIS E&S PLAN FOR FURTHER INFORMATION.
- 10. CLEAR AND STRIP TOPSOIL ACROSS THE SITE AND PLACE ON THE TOPSOIL STOCKPILES AS SHOWN ON THE ATTACHED PLAN AND IN ACCORDANCE WITH PLAN DETAILS. INSTALL SILT SOCK AT LOCATIONS 1-4 BELOW EACH TOPSOIL STOCKPILE AS SHOWN ON THE ATTACHED PLAN.
- 11. ROUGH GRADE THE DISTURBED AREA. A THIS TIME, INSTALL SWALE 1. ENSURE THE EROSION CONTROL LINING IS INSTALLED IN THE SWALE BOTTOM IN ACCORDANCE WITH THE PLAN DETAILS.
- 12. AT THIS TIME, EXCAVATE AS REQUIRED TO INSTALL STONE BEDS A THROUGH E. ENSURE IMPERVIOUS LINER IS INSTALLED FOR BEDS A, B, AND C. CONSTRUCT BEDS IN ACCORDANCE WITH PLAN DETAILS. ENSURE INLET PROTECTION IS PROVIDED FOR ALL INLETS INSTALLED. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ONSITE DURING INSTALLATION OF STONE BEDS A. B. C. D. AND E
- 13. INSTALL WATER, SANITARY SEWER, REMAINING STORM SEWER, AND ALL OTHER UTILITIES AT THIS TIME, ENSURE INLET PROTECTION IS PROVIDED FOR ALL STORM INLETS. DURING AND FOLLOWING STORM EVENTS PROVIDE A MEANS TO DEWATER PITS AND UTILITY TRENCHES. SPOIL MATERIAL FROM EXCAVATION OF THE TRENCHES SHALL BE PLACED ON THE UP-SLOPE SIDE OF THE TRENCH. THE LENGTH OF OPEN TRENCH SHALL BE LIMITED TO HAT WHICH WILL BE BACKFILLED THE SAME DAY, AND ANY AFFECTED BMP'S SHALL BE IMMEDIATELY STABILIZED AND REPAIRED. THE TOPSOIL EXCAVATED FROM THE TRENCH SHALL BE CAREFULLY REMOVED AND STOCKPILED SEPARATELY FROM THE SUBSOIL. THE TOPSOIL SHALL BE RESTORED TO THE GRADED AREAS TO PRE-CONSTRUCTION CONDITIONS. WATER PUMPED FROM PITS AND TRENCHES SHALL BE FILTERED BY MEANS OF A FILTER BAG. IMMEDIATELY AFTER TRENCHES HAVE BEEN BACKFILLED, FINE-GRADE AREA.
- 14. INSTALL FLEXSTORM INLET FILTERS AND STORMTANK® SHIELDS AS SHOWN ON THE PCSM PLAN. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ONSITE DURING INSTALLATION.
- 15. INSTALL THE STONE SUB-BASE FOR THE PAVED AREAS AND CONCRETE SLABS AS PER PLAN REQUIREMENTS.
- 16. CONSTRUCT THE PROPOSED BUILDINGS AND ATTACHED UTILITIES (ROOF DRAINS, SANITARY CONNECTIONS, WATER CONNECTIONS, ETC.) IMMEDIATELY UPON COMPLETION OF EARTH DISTURBANCE ACTIVITIES FINAL GRADE AND STABILIZE THE LOT
- 17. FINE GRADE ANY REMAINING AREAS AS SHOWN ON THE GRADING PLAN. SPREAD A MINIMUM OF 4-8 INCHES OF TOPSOIL ON FRESHLY GRADED AREAS; REFER TO THE TOPSOIL APPLICATION NOTES ON THE PLAN. FINAL PASSES DURING FINE GRADING SHALL BE MADE AT RIGHT ANGLES TO THE SLOPES. PREPARE THE REMAINDER OF THE DISTURBED AREA FOR PERMANENT STABILIZATION. SEEDBED SHALL BE PREPARED IN ACCORDANCE WIT ACCEPTED PRACTICES. EACH SEED MIXTURE SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RATES AND INSTRUCTIONS.
- 18. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. 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 AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
- DAVE THE ACCESS DRIVE AND DARKING LOT AREAS DO NOT INSTALL SURFACE (WEARING) COURSE LINTH. THE AREA IS STARILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS). IF EARTHMOVING ACTIVITIES CEASE FOR FOUR (4) DAYS OR MORE TEMPORARY STABILIZATION SHALL BE APPLIED. SEE "STABILIZATION SPECIFICATIONS" IN THE E&S PLAN FOR FURTHER DETAILS.
- 20. ALL SEDIMENT DEPOSITED WITHIN STORM SEWER CONVEYANCE PIPES SHALL BE REMOVED PRIOR TO COMPLETION OF THE PROJECT. ANY WATER PUMPED FROM THE STORMWATER BASIN OR OTHER AREA OF THE SITE SHALL BE PUMPED THROUGH A FILTER BAG AND THE COLLECTED SEDIMENT SHALL BE DISPOSED OF PROPERLY. ALL AREAS DISTURBED DURING THIS PROCESS SHALL BE STABILIZED IMMEDIATELY THROUGH SEEDIN MULCHING. THE COUNTY CONSERVATION DISTRICT SHOULD BE CONTACTED PRIOR TO CONVERSION OR REMOVAL OF PRIMARY E&S BMPS AND MA' REQUIRE A SITE INSPECTION. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS).
- 21. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES ON OR OFF THE SITE. THESE BUILDING WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY.
- 22. PER NEW NPDES REQUIREMENTS, "WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPS IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT AND THE APPROVED E&S AND PCSM PLANS."

CONTRACTOR NOTES

- AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE CONTRACTOR SHALL INVITE ALL SUB-CONTRACTORS, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE CIVIL ENGINEER, AND A REPRESENTATIVE OF THE LOCAL COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. PERIMETER E&S CONTROLS MAY BE INSTALLED PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 2. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- 1. PERMITTEE'S REQUESTING A RENEWAL OF COVERAGE UNDER GENERAL PERMIT MUST SUBMIT TO THE COUNTY CONSERVATION DISTRICT AN 3. THE LIMITS OF DISTURBANCE (LOD) SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES (I.E. SURVEY STAKES, POSTS & ROPE, CONSTRUCTION FENCE. ETC.)
 - 4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY DEP PRIOR TO IMPLEMENTATION.
 - 5. PER NEW NPDES REQUIREMENTS, "UPON THE INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT."
 - LIMITATIONS AND RESOLUTIONS" SECTION OF THIS E&S PLAN FOR FURTHER INFORMATION.
 - THE DAUPHIN COUNTY CONSERVATION DISTRICT SHOULD BE CONTACTED PRIOR TO CONVERSION OR REMOVAL OF PRIMARY E&S BMPS AND MAY REQUIRE A SITE INSPECTION
 - 8. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. 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 AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
 - 9. ALL SEDIMENT DEPOSITED WITHIN STORM SEWER CONVEYANCE PIPES SHALL BE REMOVED PRIOR TO COMPLETION OF THE PROJECT. ANY WATER PUMPED FROM THE STORMWATER BASIN OR OTHER AREA OF THE SITE SHALL BE PUMPED THROUGH A FILTER BAG AND THE COLLECTED SEDIMENT SHALL BE DISPOSED OF PROPERLY. ALL AREAS DISTURBED DURING THIS PROCESS SHALL BE STABILIZED IMMEDIATELY THROUGH SEEDING AND
 - 10. IF EARTHMOVING ACTIVITIES CEASE FOR FOUR (4) DAYS OR MORE TEMPORARY STABILIZATION SHALL BE APPLIED. SEE "STABILIZATION SPECIFICATIONS" IN THIS E&S PLAN FOR FURTHER DETAILS.
 - 11. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS).
 - 12. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY DUMP OR DISCHARGE ANY BUILDING MATERIAL OR WASTES ON OR OFF THE SITE. THESE BUILDING WASTES INCLUDE, IT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY.
 - 13. PER NEW NPDES REQUIREMENTS. "WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT. INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPS IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT AND THE APPROVED E&S AND PCSM PLANS.

Operation and Maintenance (O&M) Agreement

__, 20__, by and between Community Homes of Lebanon County, Inc., (hereinafter the THIS AGREEMENT, made and entered into this _____ __day of ____ "Landowner"), and the subject approval agency, Lebanon County; Pennsylvania, (hereinafter "County");

WHEREAS, the Landowner is the owner of certain real property as recorded by deed in the land records of Lebanon County, Pennsylvania, Deed Book 2301_ at Page

WITNESSETH

<u>_94</u>_, (hereinafter "Property").

WHEREAS, the Subdivision/Land Development/Stormwater Management (SWM) Site Plan (hereinafter "Plan") for Community Homes of Lebanon County, Inc., Plan

WHEREAS, the Landowner is proceeding to build and develop the Property; and

Book _____ Page ______ which is expressly made a part hereof, as approved or to be approved by Lebanon County, provides for management of stormwater within the confines of the Property; and

WHEREAS, the SWM Best Management Practices (BMP) Operation and Maintenance Plan (hereinafter referred to as the "O&M Plan") approved by the County for the property identified herein, provides for management of stormwater within the confines of the Property through the use of BMPs; and

WHEREAS, the County and the Landowner, his successors and assigns agree that the health, safety, and welfare of the residents of the County and the protection and maintenance of water quality require that on-site SWM (BMPs) be constructed and maintained on the Property: and

WHEREAS, the County requires, that stormwater management facilities as shown on the Plan be constructed and adequately maintained by the Landowner, his successors and assigns; and

WHEREAS, the County requires, through the implementation of the SWM Site Plan, that SWM BMPs as required by said SWM Site Plan and the Lebanon County Stormwate Management Ordinance be constructed and adequately operated and maintained by the Landowner, successors, and assigns

NOW, THEREFORE, in consideration of the foregoing premises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

The stormwater management BMPs shall be constructed by the Landowner, his successors and assigns, in accordance with the terms, conditions and specifications identified in the subdivision/land development/SWM Site Plan.

The Landowner, his successors and assigns, shall operate and maintain the stormwater management BMPs as shown on the subdivision/land development/SWM Site Plan in good working condition in accordance with the specific operation and maintenance requirements noted in the approved O&M Plan. 3. The Landowner, his successors and assigns, hereby grants permission to the Municipality, Lebanon County and the Lebanon County Engineer, his authorized agents and employees, upon presentation of proper identification, to enter upon the Property at reasonable times, and to inspect the SWM BMPs whenever deemed necessary. Whenever possible, the Municipality, Lebanon County or the Lebanon County Engineer shall notify the Landowner prior to entering the Property. The purpose of the inspection is to assure safe and proper functioning of the SWM BMPs. The inspection shall cover the entire facilities, pipes, berms, outlet structures, pond areas, access

roads, etc. When inspections are conducted Lebanon County and/or the Lebanon County Engineer shall give the Landowner, his successors and assigns, copies of the inspection report with findings and evaluations. At a minimum, this agreement grants the Municipality, Lebanon County and/or the Lebanon County Engineer the right to perform inspections in accordance with the following schedule: Annually for the first 5 years after the construction of the stormwater facilities,

Once every 3 years thereafter, or

During or immediately upon the cessation of a 10 year or greater precipitation event.

All reasonable costs for said inspections shall be borne by the Landowner and payable to the inspecting agency.

The owner shall convey to the County easements and/or rights-of-way to assure access for periodic inspections by the Municipality and Lebanon County and maintenance, if required.

6. In the event the Landowner, his successors and assigns, fails to maintain the SWM BMPs in acceptable working condition, the Municipality, the County, or its representatives, may enter upon the Property and take such necessary and prudent action to maintain said SWM BMPs and to charge the costs of the maintenance and/o repairs to the Landowner, his successors and assigns. This provision shall not be construed as to allow the County to erect any structure of a permanent nature on the land

facilities, and in no event shall this Agreement be construed to impose any such obligation on the County. The Landowner, his successors and assigns, will perform maintenance in accordance with the maintenance schedule for the SWM BMPs including sediment removal as outlined on the approved schedule and/or Subdivision/Land Development/SWM Site Plan.

8. In the event the County, pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment supplies, materials, and the like on account of the Landowner's or his successors' and assigns' failure to perform such work, the Landowner, his successors and assigns, shall reimburse the County upon demand, within 10 days of receipt of invoice thereof, for all costs incurred by the County hereunder. If not paid within said 10-day period, the County may enter a lien against the property in the amount of such costs, or may proceed to recover their costs through proceedings in equity or at law as authorized under the applicable provisions of the Pennsylvania Municipal Code.

The Landowner, his successors and assigns, shall indemnify the County and their agents and employees against any and all damages, accidents, casualties, occurrences or claims, which might arise or be asserted against the County for the construction, presence, existence or maintenance of the stormwater management facilities by the Landowner, his successors and assigns.

In the event a claim is asserted against the County, its agents or employees, the County shall promptly notify the Landowner, his successors and assigns, and they shall defend, at their own expense, any suit based on such claim. If any judgment or claims against the County, its agents or employees shall be allowed, the Landowner, his successors and assigns shall pay all costs and expenses in connection therewith.

11. In the advent of an emergency or the occurrence of special or unusual circumstances or situations, the Municipality or Lebanon County may enter the Property, if the Landowner is not immediately available, without notification or identification, to inspect and perform necessary maintenance and repairs, if needed, when the health, safety or welfare of the citizens is at jeopardy. However, the Municipality or Lebanon County shall notify the landowner of any inspection, maintenance, or repair undertaken within 5 days of the activity. The Landowner shall reimburse the agency undertaking the inspections, maintenance or repairs for any associated costs.

12. The intent and purpose of this Agreement is to ensure the proper maintenance of the onsite BMPs by the Landowner; provided, however, that this Agreement shall not be deemed to create or affect any additional liability of any party for damage alleged to result from or be caused by stormwater runoff.

13. The Landowner, its executors, administrators, assigns, and other successors in interests, shall release the Municipality, Lebanon County Engineer and Lebanon County from all damages, accidents, casualties, occurrences, or claims which might arise or be asserted against said employees and representatives from the construction, presence, existence, or maintenance of the BMP(s) by the Landowner, Municipality or Lebanon County.

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LEGEND

EXISTING FEATURES

EXISTING ADJOINER LINE EXISTING ADDOINTER LINE EXISTING BOUNDARY LINE AND CORNERS EXISTING EDGE OF PAVEMENT AND CURB LINE EXISTING RIGHT-OF-WAY EXISTING FENCE

EXISTING STORMWATER

RON PIN	CONCRETE MONUMENT
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PROPOSED FEATURES

PROPOSED BOUNDARY LINE AND CORNERS PROPOSED EDGE OF PAVEMENT AND CURB LINE

PROPOSED STORMWATER

PROPOSED STORMWATER/DRAINAGE EASEMENT

					_
		LINE TABLE		LINE TABL	E LENGTH (FT)
		N 04*41'45" W	31.60	L14 S 04°32'03" E	127.32
	L2	N 85°27'57" E	17.02	L15 N 85°18'15" E	55.89
	L3	N 04°32'03" W	122.00	L16 N 03°59'31" W	87.01
	L4 L5	N 51°05'38" E	32.91	L17 N 84 30 50 E L18 S 09°59'48" E	110.79
	L6	S 04°32'09" E	141.87	L19 S 85°18'15" W	134.68
	L7	N 85°16'11" E	42.90	L20 S 04°41'45" E	60.00
		N 04°17′24″ W	30.00	L21 S 85°18'15" W	392.00
	L10	S 04°43'49" E	22.87	L23 S 85°16'11" W	59.32
	L11	N 85°26'44" E	41.31	L24 N 04°26'19" W	10.46
	L12 L13	N 04*43'49" E N 85*18'15" E	233.27	L25 S 85°33'41" W L26 S 04°26'19" E	10.00
-503	OBILE HOME		J. J. Meg.	20d	MODILE HOME
	58	L13			
	STORMWATER	R/DRAINAGE EASEMENT			
WATE ACCESS DRIVE (20° CARTWAY)					S
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13 OF 21 SHEETS

PROFILE VIEW SCALE: VERTICAL: 1" = 5' HORIZONTAL: 1" = 50'

HORIZONTAL: 1" = 50'

- GENERAL NOTE SIGHT DISTANCE: NO LANDSCAPE ELEMENTS OR OTHER OBJECTS MAY OBSTRUCT VISION ABOVE THE HEIGHT OF THIRTY-INCHES AND BELOW THE HEIGHT OF TEN-FEET MEASURED FROM THE CENTERLINE GRADE OF THE DRIVEWAY AND THE INTERSECTING STREET. SUCH CLEAR SIGHT TRIANGLE SHALL BE BOUND BY TWO POINTS 75-FEET ON EITHER SIDE OF THE POINT OF INTERSECTION OF THE DRIVEWAY AND STREET CENTERLINES ALONG THE STREET, AND A THIRD POINT SHALL BE 75-FEET BACK FROM THE STREET CENTERLINE ON THE CENTERLINE OF THE DRIVEWAY. THE CLEAR SIGHT TRIANGLE SHALL BE CONSIDERED AS A BUILDING SETBACK
- . MAINTENANCE PROVISIONS: THE OWNER OF THE FACILITY SERVED BY THE PARKING AREA SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE PARKING AREA LANDSCAPING IN A HEALTHY AND ATTRACTIVE CONDITION. DEAD AND PRUNED PLANT MATERIAL AND DEBRIS SHALL BE ROUTINELY REMOVED WITHIN 30 DAYS

OF A DIRECTIVE TO DO SO AS ISSUED BY THE TOWNSHIP CODES ENFORCEMENT OFFICER.

495

- 1. SEE SEEDING SPECIFICATIONS ON EROSION AND SEDIMENT POLLUTION CONTROL SHEET DETAILS. 2. ALL TOPSOIL SHALL BE FREE OF STONES, LUMPS, PLANTS. ROOTS, AND OTHER DEBRIS OVER 1-1/2". TOPSOIL
- SHALL BE FREE OF WEEDS, WEED SEEDS, AND TOXIC SUBSTANCES THAT ARE HARMFUL TO PLANT GROWTH. 3. TOPSOIL SHALL BE FRIABLE LOAMY SOIL (AS CLASSIFIED BY THE U.S. DEPARTMENT OF AGRICULTURE, HANDBOOK NO. 18, SOIL; SURVEY MANUAL), FREE OF SUBSOIL, ROOTS, GRASS, AND FOREIGN MATTER WITH AN ACIDITY RANGE OF 5.5 TO 7.5 AND CONTAINING A MINIMUM OF 3% AND A MAXIMUM OF 10% ORGANIC MATTER.
- NO MORE THAN 15% BY WEIGHT SHALL BE LARGER THAN A NO. 10 U.S. STANDARD SIEVE TO THE EXTENT THAT ON-SITE MATERIAL MEETS THE REQUIREMENTS, SUCH MATERIAL MAY BE USED FOR TOPSOIL.
- 4. SOIL AMENDMENTS: TOPSOIL AMENDMENTS SHALL BE DETERMINED BY SOIL TESTS AND SHALL BE MADE BASED

- UPON THE DOMINANT VARIETY IN THE SEED MIX. WHERE SOIL TESTS INDICATE THAT THE TOPSOIL IS SUITABLE AS TESTED, NO ADDITIONAL AMENDMENTS ARE REQUIRED.
- 5. FERTILIZER: ALL FERTILIZER SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING, AND SUITABLE FOR
- APPLICATION BY MECHANICAL SPREADERS. ALL FERTILIZERS SHALL BE ORGANIC IN COMPOSITION. 6. LIME: LIME MATERIAL SHALL BE GROUND OR PULVERIZED LIMESTONE CONTAINING AT LEAST 50% TOTAL OXIDES, CALCIUM OXIDE PLUS MAGNESIUM OXIDE. LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT AT LEAST 50% WILL PASS THROUGH A 100-MESH SIEVE AND NOT LESS THAN 98% WILL PASS THROUGH A 20-MESH SIEVE.

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NO SCALE

BERM -

FINISHED GRADE -----

SHRUB DEPTH SHALL BEARTHE SAME

RELATIONSHIP

FINISHED GRADE AS

UNEXCAVATED DEPTH

THE SHRUB'S ORIGINAL

NO SCALE

- 7. MULCHING MATERIALS:
- A. STRAW FREE OF ROT, MILDEW, NOXIOUS WEED SEEDS, AND SHALL BE SMALL GRAINED, SUCH AS WHEAT OR BARLEY, APPLY AT A RATE TO LIGHTLY COVER SOIL, APPROXIMATELY 100 LBS. PER 1,000 S.F. B. CELLULOSE FIBER: PREPARED CELLULOSE PROCESSED INTO A UNIFORM FIBROUS PHYSICAL STATE. THE MATERIAL SHALL BE UNIFORM IN SUSPENSION IN WATER UNDER AGITATION AND WILL BLEND WITH SEED. FERTILIZER. AND OTHER ADDITIVES TO FORM A HOMOGENOUS SLURRY. OTHER MULCHES, SUCH AS RECYCLED
- PAPER AND WOOD BLEND, RECYCLED PAPER, AND BINDING ACCESSORIES MAY BE UTILIZED AT THE CONTRACTOR'S DESCRETION.

PLANTING NOTES

- ALL PLANT MATERIAL SHALL CONFORM TO THE LATEST EDITION OF THE AMERICA STANDARD FOR NURSERY
- STOCK, ANSI 260.1-NURSERY STOCK.
- 2. ALL PLANT MATERIAL SHALL BE PROVIDED FROM NURSERIES THAT HAVE BEEN STATE CERTIFIED BY STATE PLANT INSPECTORS. 3. THE CALIPER OF THE TRUNK, MEASURED AT A HEIGHT OF SIX (6) INCHES ABOVE THE ROOT BALL (BREAST HEIGHT) SHALL BE A MINIMUM OF 2" FOR ALL TREES (UNLESS OTHERWISE SPECIFIED).
- 4. A CIRCULAR MULCH BED SHALL BE INSTALLED AT THE BASE OF EACH TREE. EACH MULCH BED SHALL HAVE A
- DIAMETER OF AT LEAST TWICE THAT OF THE ROOT BALL.
- 4. ALL PLANTING BEDS ARE TO BE MULCHED WITH A MINIMUM OF 3" OF SHREDDED AGED HARDWOOD BARK MULCH. . THE CONTRACTOR IS TO PROVIDE ADDITIONAL TOPSOIL AS NEEDED FOR PLANTING OPERATIONS. 3. ALL TREES ARE TO BE STAKED AND GUYED ACCORDING TO THE PLANTING DETAILS AND ACCEPTED STAKED AND MORE THAN A 3" CALIPER PROPERLY GUYED.

2. ALL PLANT MATERIAL IS TO BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF

PROFESSIONAL NURSERYMAN'S STANDARDS. TREES WITH LESS THAN A 3" CALIPER SHALL BE PROPERLY

3. PLANT MATERIAL SHALL BE TRUE TO SPECIES AND VARIETY AND SHALL CONFORM TO MEASUREMENTS AND

. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL UTILITIES AND SHALL ASSUME RESPONSIBILITY FOR

- . THE CONTRACTOR SHALL REMOVE WIRE BASKETS AND NYLON BURLAP OR ROPE FROM THE ROOT BALL OF ALL
- PLANT MATERIAL.

INSTALLED TO PREVENT DAMAGE AT A MINIMUM OF 2/3 OF THE DIAMETER OF THE TREE CANOPY.

- 8. APPLY A 50/50 MIX OF CHIPCO RONSTAR 6 AND PENNANT 56 TO SOIL SURFACE IN MULCHED AREAS PRIOR TO MULCHING. APPLY AT A RATE OF 7 POUNDS PER 1000 SF.
- 9. PLACE "WEED BLOCK" WATER PERMEABLE FILTRATION FABRIC UNDER MULCHED AREAS EXCEPT FOR AREAS OF GROUND COVER (I.E. IVY AND VINCA) AND PERENNIAL BEDS.
- 10. LANDSCAPE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH ALL OTHER CONTRACTORS ON SITE.
- 11. ALL AREAS OTHER THAN PLANTING BED AREAS SHALL BE CONSIDERED LAWN AREAS.
- 12. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO CLEAN AND REMOVE/DISPOSE FROM THE SITE ALL DEBRIS THAT IS A PART OF THE LANDSCAPE CONTRACTOR'S OPERATION.
- 13. THE CONTRACTOR SHALL INSTALL ORANGE PLASTIC CONSTRUCTION FENCE AROUND EXISTING MATURE TREES TO PREVENT ROOT ZONE COMPACTION AND DAMAGE TO TRUNKS AND BRANCHES. THE FENCING SHALL BE

NOTES:

3. NEVER CUT LEADERS.

SET STAYS OR GUYS 1/2-2/3 UP TREES.

TO FORM 4" DEEP SAUCER

REMOVE BURLAP FROM

SCARIFY TO 4" DEPTH AND RECOMPACT

TOP 1/3 OF BALL

PLANT MIXTURE

NO SCALE

ACCESS DRIVE

SHIELDED, POLE

MOUNTED LIGHT

______500____

-499-

- 497 -

INSTALLATION AND ACCEPTANCE BY OWNER.

GENERAL LANDSCAPE NOTES (BY LANDSCAPE CONTRACTOR)

DAMAGE TO UTILITIES AND PROPERTY AS A RESULT OF HIS WORK.

MINIMUM STANDARDS AS SET FORTH IN THE PLANT SCHEDULE.

4" OF HARDWOOD MULCH MOUND -

STAKES TO EXTEND 18" BELOW TREE PIT IN THE UNDISTURBED GROUND

EVERGREEN TREE PLANTING DETAIL

1. STAKE ALL EVERGREEN TREES UNDER 12' GUY TREES 12' AND OVER. FOR DECIDUOUS TREES.

2. TREE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE.

4. PRUNE ONLY TO REMOVE DAMAGED OR BROKEN BRANCHES.

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BY	22 ABK/EG					
DATE	01/07/2		-			
REVISION	LEBANON COUNTY PLANNING DEPT. COMMENTS					
	CONSTRUCTION DETAILS	Preliminary/final land development plan	COMMUNITY HOMES OF LEBANON COUNTY, INC.	Iocated in North Lebanon Township	Lebanon County, Pennsylvania	
			Steckbeck Engineering & Surveying Inc. 279 North Zinns Mill Road / Suite A	Lebanon, Pennsylvania 17042 Phone: (717) 272–7110	Fax: (717) 272–7348	
FIE BA DR DE CH DA SC PR	LD (SE M AWN SIGN ECKI TE: ALE: OJE(CREW MAP: : : : : : : : : : : : : : : : : : :	: SS JC ABK / 11/ N 355-2	5, DY /DY авк ОЈН (30/2 ⁻ 1/А 21-00	1	

SILT FENCE OR SILT-SOCK (SEE PLAN)

NOTES 1. A STOCKPILE SHALL BE USED TO CONTAIN ALL STRIPPED TOPSOIL IN A LIMITED AREA IN ORDER TO KEEP DISTURBANCE TO A MINIMUM.

- STOCKPILES ARE TO BE STABILIZED IMMEDIATELY. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET.
- STOCKPILE SLOPES MUST BE 2:1 OR FLATTER. 5. STOCKPILES SHALL BE LOCATED SO THAT ALL SWALES CAN FUNCTION AS DESIGNED.

TOPSOIL STOCKPILE DETAIL NO SCALE

NOTES 1. REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND

- ROCK OVER FULL WIDTH OF ENTRANCE RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP
- PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE. 3. MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND
- PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED. 4. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY
- MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

ROCK CONSTRUCTION ENTRANCE DETAIL

NO SCALE

2" X 2" WOODEN STAKE-

UNDISTURBED AREA

2"X2" WOODEN STAKES

PLACED 10" O.C.

<u>XXXXXXAI/</u>

AREA

AREA

COMPOST FILTER SOCK-

DISTURBED AREA

BLOWN/PLACED FILTER MEDIA-

TOPSOIL APPLICATION

TOPSOIL FROM SLIDING DOWN SLOPE.

DEPRESSIONS UNLESS SUCH DEPRESSIONS ARE PART OF THE PCSM PLAN. ALONG CONTOUR WHEREVER POSSIBLE PRIOR TO SEEDING.

CUBIC YARDS OF TC	PSOIL REQ
DEPTH (IN.)	PER 1,0
1	
2	
3	
4	
5	
6	
7	
8	

APPLICATION	SPECIES	%	APPLICATION RATE	FINAL SEEDING DATE	FERTILIZER	LIMING RATE
TEMPORARY	ANNUAL RYE	98%	40 LBS/AC	OCT. 15	10-10-10 AC	1 TON/AC AG GRADE
	ANNUAL RYE		P.L.S. IN LBS/AC			
	GRASS		10		10 10 20	
PERMANENT	PLUS TALL FESCUE		30	AND OCT. 15	N-P205-K20 /ACRE	6 TON/AC AG GRADE*
	BIRDSFOOT		P.L.S. IN LBS/AC		10-10-20	
STEEP SLOPE	TREFOIL		10	AUGUST 30 AND	N-P205-K20 /ACRE	AG GRADE*
SEOF E	FESCUE		35	OCTOBER 15		

- MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER @ 750 LBS/AC.

- OF FINE FESCUES IS 50%, DIVIDE 7 PLS BY 0.50 TO OBTAIN 140 POUNDS OF SEED PER ACRE.

SEEDING SCHEDULE & NOTES NO SCALE

1. FERTILIZER AND LIME SHALL BE APPLIED IN ACCORDANCE WITH SOIL TESTS.

2. ALL SEEDED AREAS SHALL BE MULCHED WITH HAY OR STRAW APPLIED AT A RATE OF 3 TONS/ACRE.

3. ALL DIVERSIONS, CHANNELS, SED TRAPS AND STOCKPILES MUST BE STABILIZED IMMEDIATELY. 4. ALL SEEDED AREAS SHALL BE MULCHED WITH HAY OR STRAW APPLIED AT A RATE OF 3 TONS/ACRE.

MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER @ 750 LBS/AC. PLS IS PURE LIVE SEED. PLS IS THE PRODUCT OF THE PERCENTAGE OF PURE SEED TIMES PERCENTAGE GERMINATION DIVIDED BY 100. TO SECURE THE ACTUAL PLANTING RATE, DIVIDE THE POUNDS PLS BY THE PLS PERCENTAGE SHOWN ON THE SEED TAG OR AS PREVIOUSLY DISCUSSED. THUS, IF THE PLS CONTENT

installing the socks. Adapted from Filtrexx

FROSION AND SEDIMENT POLLUTION CONTROL NARRATIVE CANAL STREET POCKET NEIGHBORHOOD

THERMAL IMPACTS ANALYSIS

STORM EVENTS

THIS NARRATIVE IS INTENDED TO ACCOMPANY THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN FOR THE PROPOSED SUBDIVISION AND LAND DEVELOPMENT PLAN FOR THE CANAL STREET POCKET NEIGHBORHOOD, LOCATED NORTH OF GUILFORD STREET, BETWEEN N. 6^{1H} AVE AND N. 7^{1H} AVE IN NORTH LEBANON TOWNSHIP, LEBANON COUNTY. THIS NARRATIVE SHALL BE CONSIDERED A PART OF THE EROSION AND SEDIMENT POLLUTION CONTROL PI AN

PROJECT DESCRIPTION OTAL TRACT OF PROPERTY IN QUESTION IS APPROXIMATELY 2.43 ACRES. THE TOTAL SITE AND EARTH DISTURBANCE AS PART OF THIS PROJECT IS 2.43 ACRES. THE CURRENT SITE CONSISTS OF AN OPEN GRASS FIELD. BASED ON GOOGLE EARTH HISTORICAL IMAGERY, THE SITE HAS BEEN AN OPEN GRASS FIELD SINCE THE EARLY 1990'S. THE SITE IS BORDERED TO THE WEST BY N. 6TH AVE, TO THE EAST BY N. 7TH AVE, AND TO THE NORTH AND OUTH BY RESIDENTIAL PROPERTIES. PROPOSED IMPROVEMENTS INCLUDE THE CONSTRUCTION OF A 23-UNIT POCKET NEIGHBORHOOD, ACCESS DRIV CONNECTION TO PUBLIC SEWER AND WATER. AND STORMWATER MANAGEMENT FACILITIES GENERALLY CONSISTING OF FIVE (5) SUBSURFACE STONE BEDS THE ANTICIPATED SITE DISTURBANCE SHALL INCLUDE GRADING AS WELL AS ADDITIONAL IMPERVIOUS AREA WHICH WILL BE TREATED ON-SITE BY STORMWATER MANAGEMENT BMPS. STORMWATER RUNOFF FROM THE SITE WILL REACH THE QUITTAPAHILLA CREEK WHICH IS DESIGNATED AS A TROUT STOCKED FISHERY (TSF). THE QUITTAPAHILLA CREEK IS IMPAIRED ACCORDING TO CATEGORY 4C OF THE PA INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT FOR AQUATIC LIFE: URBAN RUNOFF/STORM SEWERS - FLOW REGIME MODIFICATION AND STREAMBANK MODIFICATIONS/DESTABILIZATION - HABITAT ALTERATIONS. THE QUITTAPAHILLA CREEK IS ALSO IMPAIRED ACCORDING TO CATEGORY 5 OF THE PA INTEGRATED WATER QUALITY MONITORING AND ASSESSMENT REPORT FOR RECREATIONAL: SOURCE UNKNOWN - PATHOGENS.

ALL EXISTING SITE RUNOFF CURRENTLY LEAVES THE SITE UN-DETAINED WITH NO TREATMENT OF THIS RUNOFF IN ANY WAY. FIVE (5) SUBSURFACE STONE BEDS ARE PROPOSED TO TREAT THE MAJORITY OF THE DISTURBED SITE AND PROPOSED IMPERVIOUS AREAS. RUNOFF REACHING THE STONE BEDS WILL BE COOLED BY NATURE OF THE SUBSURFACE FACILITY AND WILL THEN BE RELEASED SLOWLY USING THE DEP'S MANAGED RELEASE CONCEPT MRC). TREES ARE ALSO PROPOSED IN AND AROUND THE STREETS TO SHADE THESE AREAS WHICH WILL PROVIDE TEMPERATURE RELIEF FOR RUNOFF THAT FLOWS OVER THE IMPERVIOUS SURFACES. DOWNSTREAM WATERCOURSE ANALYSIS

THE FOLLOWING IS AN EXCERPT FROM THE PA DEP FAQ SHEET LABELED OFF-SITE DISCHARGES OF STORMWATER TO NON-SURFACE WATERS (JANUARY 2019). FAQ #2 STATES, "PERSONS PROPOSING TO DISCHARGE MUST HAVE THE LEGAL AUTHORITY TO DISCHARGE THEIR STORMWATER EITHER THROUGH A COMMON LAW FASEMENT OR AN EXPRESS FASEMENT. FOR SITES THAT DISCHARGE TO EXISTING SWALES, DITCHES, STORM SEWERS OR SIMILAR STRUCTURES WHERE THE NEW ACTIVITIES WILL NOT RESULT IN A CHANGE IN VOLUME OR RATE OF STORMWATER RUNOFF (FOR ALL STORM EVENTS), THE EXISTING COMMON LAW EASEMENT COULD BE RELIED UPON." THE SITE DISCHARGES TO AN EXISTING STORM SEWER SYSTEM IN A SIMILAR MANNER AT A RATE THAT IS LESS THAN PRE-DEVELOPMENT FOR ALL

SOIL INFORMATION AND GEOLOGY HE FOLLOWING SOILS ARE FOUND WITHIN OR ADJACENT TO THE AREA TO BE DISTURBED BY EARTH MOVING ACTIVITIES. THESE SOILS CAN ERODE WHEN STURBED. EROSION WILL BE CONTROLLED WITH STANDARD EROSION CONTROLS SUCH AS FILTER SOCK, SLOPE AND SWALE MATTING, ROCK CONSTRUCTION ENTRANCES, AND INLET PROTECTION.

MAP SYMBOL	SOIL NAME	SLOPE	HYDROLOGIC GROUP
BEB	BEDINGTON SHALY SILT LOAM	3-8%	В
US	URBAN LAND-HAGERSTOWN COMPLEX	-	В

THE PA DEP'S EMAPPA DOES NOT IDENTIFY ANY KARST FEATURES ON THE PROJECT SITE OR ON ANY ADJACENT PROPERTIES. THE SITE IS PRIMARILY UNDERLAIN BY THE ONTELAUNEE FORMATION WHICH IS COMPRISED OF DOLOMITE. LIMESTONE AND CHERT, BOTH LIMESTONE AND DOLOMITE ARE SUSCEPTIBLE TO KARST ACTIVITY. SHOULD A GEOTECHNICAL HAZARD BE ENCOUNTERED, A GEOTECHNICAL ENGINEER WILL BE IMMEDIATELY CONTACTED. REDINCTON SOUS - THE REDINCTON SERIES CONSISTS OF VERY DEEP WELL DRAINED SOUS REDINCTON SOUS FORMED IN RESIDUUM FROM DARK BROWN, GRAY AND OLIVE ACID, SEDIMENTARY, SILTSTONE AND SHALE, WITH SOME SANDSTONE INTERBEDS. THEY ARE ON NEARLY LEVEL TO STEEP CONVEX UPLANDS AND ON THE SIDESLOPES OF HILLS AND RIDGES. PERMEABILITY IS MODERATE. MEAN ANNUAL PRECIPITATION IS 42 INCHES. MEAN ANNUAL TEMPERATURE IS 52 DEGREES F. BEDINGTON SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE INS AND CORROSIVE TO CONCRETE. THIS DIL MAY ALSO BE SUBJECT TO DROUGHT AND MAY BE EASILY ERODIBLE. BEDINGTON SOILS MAY ALSO BE SUSCEPTIBLE TO HYDRIC INCLUSIONS, SLOW PERCOLATION, FROST ACTION, AND A POOR SOURCE OF TOPSOIL.

HAGERSTOWN SOILS - THE HAGERSTOWN SERIES CONSISTS OF DEEP AND VERY DEEP WELL DRAINED SOILS FORMED IN RESIDUUM OF HARD GRAY LIMESTONE. SLOPE RANGES FROM 0 TO 45 PERCENT. PERMEABILITY IS MODERATE. MEAN ANNUAL PRECIPITATION IS 30 TO 45 INCHES. MEAN ANNUAL AIR TEMPERATURE IS 45 TO 58 DEGREES. HAGERSTOWN SOILS MAY BE SUSCEPTIBLE TO CUT BANKS AND CAVE INS AND CORROSIVE TO STEEL BUT NOT CONCRETE. THIS SOIL MAY ALSO BE EASILY ERODIBLE AND SUBJECT TO A SEASONALLY HIGH WATER TABLE, HYDRIC INCLUSIONS, LOW STRENGTH, SLO PERCOLATION, PIPING, AND A POOR SOURCE OF TOPSOIL. HAGERSTOWN SOILS MAY ALSO BE SUSCEPTIBLE TO FROST ACTION, SHRINK-SWELL, AND SINKHOLES.

SOIL USE LIMITATIONS AND RESOLUTIONS

- CUT-BANK CAVING: ALL APPLICABLE OSHA STANDARDS AND REGULATIONS SHALL BE IMPLEMENTED AT ALL TIMES DURING TRENCHING AND EXCAVATION OPERATION • CORROSION OF STEEL AND CONCRETE: ALL UNDERGROUND FOUNDATIONS AND STRUCTURES SHALL BE PROPERLY PROTECTED AGAINST CORROSION, WHICH MAY INCLUDE COATING THESE STRUCTURES WITH CORROSION-RESISTANT MATERIAL.
- EASILY ERODIBLE: EROSION AND SEDIMENT POLLUTION CONTROLS WILL BE IMPLEMENTED TO AVOID THE TRANSPORTATION OF SEDIMENT-LADEN WATER • DEPTH TO SATURATED ZONE/SEASONAL HIGH WATER TABLE: THE SITE MAY REQUIRE DEWATERING OF PITS DURING CONSTRUCTION. I.E. WHEN POURING FOOTERS, EXCAVATING TRENCHES, DEWATERING BASINS, ETC. THE GEOTECHNICAL EXPLORATION DID ENCOUNTER AREAS OF HIGH-GROUNDWATER. SHOULD DEWATERING BE REQUIRED, A SUMP PIT AND FILTER BAG SHALL BE UTILIZED, AND WATER SHALL BE PUMPED TO AN
- UNDISTURBED AREA UPSTREAM OF A PERIMETER CONTROL BMP SUCH AS A FILTER SOCK. • HYDRIC SOILS / HYDRIC INCLUSIONS: NO WETLANDS WERE IDENTIFIED ON SITE. • LOW STRENGTH/LANDSLIDE PRONE: THE MAXIMUM PROPOSED SLOPE ON THE SITE IS 3:1. THIS WILL REDUCE THE POTENTIAL FOR EROSION AND LAND
- SLIDE ACTION • SLOW PERCOLATION: INFILTRATION TESTING YIELDED NEGLIGIBLE INFILTRATION RESULTS ACROSS THE SITE. AS SUCH, ALL BMPS ARE DESIGNED UTILIZING MRC DESIGN STANDARDS.
- PIPING: ANTI-SEEP COLLARS WILL BE PROVIDED AS PART OF THE PCSM AND PIPELINE DESIGNS. • POOR SOURCE OF TOPSOIL: THE ADEQUACY OF THE TOPSOIL WILL BE EVALUATED UPON THE COMMENCEMENT OF EXCAVATION. AS MUCH OF THE SITE IS AN OPEN GRASS FIELD, THE TOPSOIL IS EXPECTED TO BE SUFFICIENT.
- FROST ACTION: THE PROJECT'S IMPERVIOUS SURFACES SHALL BE GRADED AT A MINIMUM OF 2% IN ONE DIRECTION, SO THAT WATER WILL NOT COLLECT ON THE SURFACE AND CAUSE DAMAGE DURING FREEZE/THAW CYCLES. CRACKS WHICH DEVELOP IN THE IMPERVIOUS SURFACES SHALL BE PROMPTLY SEALED. • SHRINK/SWELL: ALL SITE GRADING SHALL DIRECT WATER AWAY FROM BUILDINGS AND OTHER IMPERVIOUS SURFACES TO REDUCE THE LIKELIHOOD OF 7 WATER INFILTRATING NEAR OR UNDER THESE STRUCTURES.
- SINKHOLE FORMATION: NO KARST FEATURES ARE IDENTIFIED ON SITE. SHOULD A GEOTECHNICAL HAZARD BE ENCOUNTERED, A GEOTECHNICAL ENGINEER WILL BE IMMEDIATELY CONTACTED. GENERAL SOIL NOTES AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER
- OBJECTIONABLE MATERIAL NEED TO HAVE APPROPRIATE E&S CONTROLS. 2 ALL FULS SHALL RE COMPACTED AS REQUIRED TO REDUCE FROSION SUPPAGE SETTLEMENT SUBSIDENCE OR OTHER RELATED PROBLEMS FUL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR
- 3. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- 4. 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 5. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- 6. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 7. THE LEBANON COUNTY CONSERVATION DISTRICT SHALL BE CONTACTED IF SEEPS OR SPRINGS ARE ENCOUNTERED AND THE DESIGNS ARE ALTERED DURING CONSTRUCTION AND THEY SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

CALCULATIONS

TEMPORARY AND PERMANENT EROSION CONTROL FACILITIES WERE DESIGNED IN ACCORDANCE WITH THE STANDARDS ESTABLISHED IN THE EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL (PA DEP BUREAU OF WATERWAYS ENGINEERING AND WETLANDS, MARCH 2012)

- CONSERVATION DISTRICT GENERAL E&S NOTES 1. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE COUNTY CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE DISTRICT MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- 2. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION AND NOTIFY THE COUNTY CONSERVATION DISTRICT.
- 3. 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.
- 4. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE EARTH DISTURBANCE ACTIVITY, 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 DEPARTMENT 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.
- 5. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE 9. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT CONTROL BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 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.
- 6. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND MAKE SURE THE SITE(S) RECEIVING THE EXCESS HAS AN APPROVED AND FULLY IMPLEMENTED EROSION AND SEDIMENT CONTROL PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102 AND/OR OTHER STATE OR FEDERAL REGULATIONS.
- 7. 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 RE-USE.)
- 8. 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
- 9. ENVIRONMENTAL DUE DILIGENCE MUST BE PERFORMED TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: 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 PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF A 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 CLEAN FILL".

TEMPORARY CONTROL MEASURES

1. TOPSOIL STOCKPILE

a. A STOCKPILE SHALL BE USED TO CONTAIN ALL STRIPPED TOPSOIL IN A LIMITED AREA IN ORDER TO KEEP DISTURBANCE TO A MINIMUM. 5 STOCKPILES SHALL BE STABILIZED IMMEDIATELY IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATION CONTAINED HEREON. C. STOCKPILES SHALL BE LOCATED SO THAT ALL SWALES CAN FUNCTION AS DESIGNED. d.STOCKPILE HEIGHTS MUST NOT EXCEED 35' IN HEIGHT. SIDE SLOPES SHALL BE 2:1 OR FLATTER.

- 2. SILT SOCK
- a. SILT SOCK SHALL BE USED TO INTERCEPT SEDIMENT-LADEN RUNOFF FROM SMALL WATERSHEDS. b.SILT SOCK MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF THE SILT SOCK SHALL EXTEND UP-SLOPE AT A 45-DEGREE ANGLE TO THE

- MAIN FENCE/SOCK ALIGNMENT.
- c. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF SOCK. d. ALL AREAS OF CONCENTRATED FLOW AND AT ALL AREAS WHERE THE SILT SOCK HAS COLLAPSED OR UNDERCUT DUE TO EXCESSIVE FLOWS, A NEW SECTION OF SILT SOCK SHALL BE INSTALLED.
- 3. INTERIM STABILIZATION / TEMPORARY EROSION CONTROL MATTING
- PERMANENT SEEDING SPECIFICATIONS CONTAINED HEREON.
- 4. EXTENDED ROCK CONSTRUCTION ENTRANCE b.ROCK CONSTRUCTION ENTRANCE SHALL BE A MINIMUM 100'L AND 20'W.
- 5. INLET PROTECTION
- PERMANENT CONTROL MEASURES

1. PERMANENT GRASS / LEGUME COVER

- ATTACHED E&SPC PLAN 2. CHANNEL LINING INSTALLATION
- a. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. AFTER STAPLING C ROLL CENTER BACKELL AND COMPACT THE TRENCH AFTER STAPLING
- BLANKETS.
- AFTER STAPLING.
- h. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER

STABILIZATION SPECIFICATIONS

- EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.
- OTHER MOVEMENTS.
- SLOPES MUST BE 2:1 OR FLATTER.
- MULCHING. FILL OUT-SLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- AT LEAST 6 TONS OF AGRICULTURAL GRADE LIMESTONE AND 1000 POUNDS OF 10-20-20 FERTILIZER PER ACRE.
- THE CORRECT EQUIPMENT OR BY PROFESSIONALS.
- SCARIFIED 6 TO 12 INCHES ALONG CONTOUR WHENEVER POSSIBLE PRIOR TO SEEDING.
- PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
- 9. AN EROSION CONTROL BLANKET WILL BE INSTALLED ON ALL DISTURBED SLOPES STEEPER THAN 3:1, ALL AREAS OF CONCENTRATED FLOWS, AND DISTURBED AREAS WITHIN 50' OF A SURFACE WATER.

MAINTENANCE

- 1. THE APPLICANT/OR HIS DESIGNEE SHALL BE RESPONSIBLE FOR MAINTAINING ALL FACILITATES SHOWN ON THIS PLAN.
- 2. DIVERSIONS, CHANNELS, AND STOCKPILES MUST BE STABILIZED IMMEDIATELY.
- REAPPLIED, OR, AT THE DISCRETION OF THE OWNER, SOD INSTALLED.
- GROUND HEIGHT OF THE SILT SOCK.
- 5. ANY SILT SOCK SECTION THAT HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A NEW SECTION OF SILT SOCK.
- 6. STOCKPILE HEIGHTS MUST NOT EXCEED 35 FEET. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.
- PERMANENT SEEDING SPECIFICATIONS.
- THOSE INSTALLED WILL BE REQUIRED.
- PERMANENTLY STABILIZED WITH SEED.
- CONSERVATION DISTRICT OR OTHER REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.

STAGING OF EARTHMOVING EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING STAGING OF EARTHMOVING ACTIVITIES. EACH STAGE SHALL BE COMPLETED BEFORE A SUBSEQUENT STAGE IS INITIATED. CONSTRUCTION OF THE SITE IMPROVEMENTS IS EXPECTED TO BEGIN IN THE SPRING OF 2022. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. CONSTRUCTION WILL PROCEED IN A TIMELY MANNER IN ORDER TO LIMIT THE POTENTIAL FOR ACCELERATED EROSION AND SEDIMENTATION. 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/OR SEDIMENT POLLUTION. SHOULD ANY SINKHOLES OR GROUNDWATER SOURCES BE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER IMMEDIATELY. 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. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. 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 FROM THE COUNTY CONSERVATION

SEQUENCE OF CONSTRUCTION

- PRE-CONSTRUCTION MEETING.

a. TEMPORARY SEEDING/MATTING AND MULCHING SHALL BE APPLIED WHERE INDICATED TO PROVIDE INTERIM STABILIZATION TO EXPOSED AREAS. b. TEMPORARY SEEDING/MULCHING/MATTING SHALL BE AS APPLIED AS SPECIFIED ON THE SEEDING SCHEDULE CONTAINED ON THE E&SPC PLAN. C. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED MUST BE STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. DISTURBED AREAS THAT ARE NOT AT FINISHED GRADE AND WILL BE RE-DISTURBED WITHIN 1 YEAR MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATION CONTAINED HEREON. RBED AREAS THAT ARE AT FINISHED GRADE OR WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE

a. A STABILIZED PAD OF CRUSHED STONE (AASHTO #1) SHALL BE LOCATED WHERE CONSTRUCTION TRAFFIC WILL BE ENTERING AND LEAVING THE SITE. THE ROCK CONSTRUCTION ENTRANCE IS USED TO ELIMINATE THE TRACKING OR FLOWING OF SEDIMENT ONTO THE EXISTING ROADWAY.

a. STONE INLET PROTECTION AND BERM MAY BE USED IN ONE-ACRE MAXIMUM DRAINAGE AREAS WITH A 15" OVERFLOW PIPE AND 4" HEAD. A PERFORATED PLATE WELDED TO A METAL RISER MAY NOT BE SUBSTITUTED FOR THE WIRE MESH. EARTHEN BERM SHALL BE ROLLED

a. ALL DISTURBED AREAS THAT ARE NOT PAVED SHALL BE PERMANENTLY STABILIZED WITH GRASS TO MINIMIZE EROSION. ALL SWALES SHALL BE PERMANENTLY SEEDED AS REQUIRED IN ACCORDANCE WITH THE SEEDING SPECIFICATION SHOWN ON THE ATTACHED E&SPC PLAN. b.PERMANENT GRASS COVER SHALL BE APPLIED AS SPECIFIED IN ACCORDANCE WITH THE SEEDING SCHEDULE AND NOTES CONTAINED ON THE

b.BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH, BACKFILL AND COMPACT THE TRENCH

d. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP, USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE e.FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH

f. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED (2" FOR C350 MATTING). O IN HIGH FLOW CHANNEL APPLICATIONS. A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40-FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WIDTH OF THE CHANNEL. PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN

LIPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STACE OR PHASE OF AN ACTIVITY WHERE A CESSATION OF FARTH DISTURBANCE ACTIVITIES WILL EXCEED 4 DAYS. THE SITE SHALL BE IMMEDIATELY SEEDED. MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED

2. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND

3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN DRAWINGS IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. TOPSOIL STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SIDE

. AREAS WHICH ARE TO BE TOP-SOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS -PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND

5. LIME AND FERTILIZER SHOULD BE APPLIED IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS. IF SOIL TEST RESULTS ARE NOT AVAILABLE, APPLY

6. APPLY SEED AT REQUIRED RATES. IF LEGUMES ARE PLANTED, BE SURE TO INOCULATE THE SEED WITH THE CORRECT LEGUME INOCULANT. SEED MAY BE BROADCAST ON THE SURFACE AND A LAYER OF MULCH APPLIED AT THE NECESSARY RATES. HYDROSEEDING IS ANOTHER METHOD OF SEEDING, WHERE THE SEED, FERTILIZER, AND MULCH ARE MIXED WITH WATER TO FORM AN EMULSION. THIS METHOD SHOULD ONLY BE DONE WITH

TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, R IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION. COMPACTED SOILS SHOULD BE

8. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE, THE OPERATOR SHALL STABILIZE THE DISTURBED AREAS. DURING NON-GERMINATING PERIODS MULCH MUST BE APPLIED AT THE SPECIFIED RATES DISTURBED AREAS WHICH ARE NOT AT EINISHED 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 AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE

3. ANY PERMANENTLY SEEDED AREA THAT BECOMES ERODED OR DISTURBED SHALL HAVE THE TOPSOIL REPLACED, THE GRASS RE-SOWN AND MULCH

FFET UP-SLOPE AT 45-DEGREE ANGLES TO THE MAIN ALIGNMENT. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE

7. ANY DISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED MUST BE STABILIZED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE RECOMMENDED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE (1) YEAR MAY BE STABILIZED IN ACCORDANCE WITH TEMPORARY SEEDING SPECIFICATIONS. DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE RE-DISTURBED WITHIN ONE (1) YEAR MUST BE STABILIZED IN ACCORDANCE WITH

8. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS), TEMPORARY EROSION AND SEDIMENTATION CONTROLS MUST BE REMOVED. AREAS DISTURBED DURING REMOVAL OF THE CONTROLS MUST BE STABILIZED IMMEDIATELY.

INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, RE-GRADING, RESEDING, RE-MULCHING AND RE-NETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF

10. ANY SEDIMENT REMOVED FROM BMPS DURING CONSTRUCTION WILL BE RETURNED TO UPLAND AREAS ON SITE AND INCORPORATED INTO THE SITE GRADING IN A MANNER THAT WILL NOT CAUSE EROSION OR SEDIMENTATION. ALL AREAS DISTURBED DURING THIS PROCESS WILL BE MULCHED AND

11. E&S BMPS SHALL BE INSPECTED FOLLOWING EACH MEASURABLE RAINFALL THROUGH THE DURATION OF THE PROJECT. INSPECTIONS SHALL BE LOGGED ON DEP FORM 3800-FM-BCW0271D (DATED 12/2019) AND SHALL SHOW THE DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THAT THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO THE COUNTY

1. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE CONTRACTOR SHALL INVITE ALL SUB-CONTRACTORS, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE CIVIL ENGINEER, AND A REPRESENTATIVE OF THE LOCAL COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING. PERIMETER E&S CONTROLS MAY BE INSTALLED PRIOR TO THE

2. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INCORPORATED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

3. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY DEP PRIOR TO IMPLEMENTATION.

- 4. INSTALL EXTENDED ROCK CONSTRUCTION ENTRANCE AS SHOWN ON THE ATTACHED PLAN.
- 5. THE LIMITS OF DISTURBANCE (LOD) SHOULD BE MARKED PRIOR TO DISTURBANCE ACTIVITIES (I.E. SURVEY STAKES, POSTS & ROPE, CONSTRUCTION FENCE, ETC.)
- 6. LOCATE, STAKE, AND FLAG AREAS MARKED AS PCSM BMP'S (I.E. STONE BEDS A THROUGH E) REFER TO PCSM PLAN FOR ADDITIONAL INFORMATION AND LOCATION OF PCSM BMP'S. THESE AREAS SHOULD AVOID COMPACTION DURING CONSTRUCTION.
- 7. INSTALL SILT SOCK ON THE SITE AT LOCATIONS 5-19 AS INDICATED ON THE ATTACHED PLAN. SILT SOCK IS TO BE INSTALLED ALONG THE CONTOUR WHERE POSSIBLE, AT A LEVEL GRADE. THE SILT SOCK SHOULD BE POSITIONED IN SUCH A WAY AS TO PREVENT ANY SEDIMENT FROM LEAVING THE SITE. SEDIMENT ACCUMULATING TO HALF THE HEIGHT OF THE SILT SOCK SHALL BE REMOVED IN ORDER TO RESTORE THE SEDIMENT STORAGE CAPACITY OF THESE AREAS. IN THE CASE OF A FAILURE OF THE SILT SOCK DUE TO HIGH FLOWS, A ROCK FILTER OUTLET SHALL BE INSTALLED ACROSS THE FAILED PORTION OF THE SILT SOCK. AT NO POINT SHALL UN-STABILIZED AREA DRAIN OFFSITE UNCONTROLLED.
- 8 PER NEW NPDES REQUIREMENTS "UPON THE INSTALLATION OF STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT "
- 9. IF SOIL IS TAKEN TO OR BORROWED FROM ANOTHER CONSTRUCTION SITE, SAID SITE MUST HAVE AN APPROVED E&SPC PLAN. SEE THE "SOIL LIMITATIONS AND RESOLUTIONS" SECTION OF THIS E&S PLAN FOR FURTHER INFORMATION.
- 10. CLEAR AND STRIP TOPSOIL ACROSS THE SITE AND PLACE ON THE TOPSOIL STOCKPILES AS SHOWN ON THE ATTACHED PLAN AND IN ACCORDANCE WITH PLAN DETAILS. INSTALL SILT SOCK AT LOCATIONS 1-4 BELOW EACH TOPSOIL STOCKPILE AS SHOWN ON THE ATTACHED PLAN.
- 11. ROUGH GRADE THE DISTURBED AREA. A THIS TIME, INSTALL SWALE 1. ENSURE THE EROSION CONTROL LINING IS INSTALLED IN THE SWALE BOTTOM IN ACCORDANCE WITH THE PLAN DETAILS.
- 12. AT THIS TIME, EXCAVATE AS REQUIRED TO INSTALL STONE BEDS A THROUGH E. ENSURE IMPERVIOUS LINER IS INSTALLED FOR BEDS A, B, AND C. CONSTRUCT BEDS IN ACCORDANCE WITH PLAN DETAILS. ENSURE INLET PROTECTION IS PROVIDED FOR ALL INLETS INSTALLED. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ONSITE DURING INSTALLATION OF STONE BEDS A, B, C, D, AND E.
- 13. INSTALL WATER, SANITARY SEWER, REMAINING STORM SEWER, AND ALL OTHER UTILITIES AT THIS TIME. ENSURE INLET PROTECTION IS PROVIDED FOR ALL STORM INLETS. DURING AND FOLLOWING STORM EVENTS PROVIDE A MEANS TO DEWATER PITS AND UTILITY TRENCHES. SPOIL MATERIAL FROM EXCAVATION OF THE TRENCHES SHALL BE PLACED ON THE UP-SLOPE SIDE OF THE TRENCH, THE LENGTH OF OPEN TRENCH SHALL BE LIMITED TO THAT WHICH WILL BE BACKFILLED THE SAME DAY, AND ANY AFFECTED BMP'S SHALL BE IMMEDIATELY STABILIZED AND REPAIRED. THE TOPSOIL EXCAVATED FROM THE TRENCH SHALL BE CAREFULLY REMOVED AND STOCKPILED SEPARATELY FROM THE SUBSOIL. THE TOPSOIL SHALL BE RESTORED TO THE GRADED AREAS TO PRE-CONSTRUCTION CONDITIONS. WATER PUMPED FROM PITS AND TRENCHES SHALL BE FILTERED BY MEANS OF A FILTER BAG IMMEDIATELY AFTER TRENCHES HAVE BEEN BACKFILLED FINE-GRADE AREA

14. INSTALL FLEXSTORM INLET FILTERS AND STORMTANK® SHIELDS AS SHOWN ON THE PCSM PLAN. A LICENSED PROFESSIONAL OR DESIGNEE SHALL BE PRESENT ONSITE DURING INSTALLATION

- 15. INSTALL THE STONE SUB-BASE FOR THE PAVED AREAS AND CONCRETE SLABS AS PER PLAN REQUIREMENTS.
- 16. CONSTRUCT THE PROPOSED BUILDINGS AND ATTACHED UTILITIES (ROOF DRAINS, SANITARY CONNECTIONS, WATER CONNECTIONS, ETC.) IMMEDIATELY UPON COMPLETION OF EARTH DISTURBANCE ACTIVITIES FINAL GRADE AND STABILIZE THE LOT.
- 17. FINE GRADE ANY REMAINING AREAS AS SHOWN ON THE GRADING PLAN. SPREAD A MINIMUM OF 4-8 INCHES OF TOPSOIL ON FRESHLY GRADED AREAS: REFER TO THE TOPSOIL APPLICATION NOTES ON THE PLAN. FINAL PASSES DURING FINE GRADING SHALL BE MADE AT RIGHT ANGLES TO THE SLOPES, PREPARE THE REMAINDER OF THE DISTURBED AREA FOR PERMANENT STABILIZATION. SEEDBED SHALL BE PREPARED IN ACCORDANCE WITH ACCEPTED PRACTICES. EACH SEED MIXTURE SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RATES AND INSTRUCTIONS.
- 18. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. 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 AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN 1 YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
- 19. PAVE THE ACCESS DRIVE AND PARKING LOT AREAS. DO NOT INSTALL SURFACE (WEARING) COURSE UNTIL THE AREA IS STABILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER. WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS). IF EARTHMOVING ACTIVITIES CEASE FOR FOUR (4) DAYS OR MORE TEMPORARY STABILIZATION SHALL BE APPLIED. SEE "STABILIZATION SPECIFICATIONS" IN THE E&S PLAN FOR FURTHER DETAILS.
- 20. ALL SEDIMENT DEPOSITED WITHIN STORM SEWER CONVEYANCE PIPES SHALL BE REMOVED PRIOR TO COMPLETION OF THE PROJECT, ANY WATER PUMPED FROM THE STORMWATER BASIN OR OTHER AREA OF THE SITE SHALL BE PUMPED THROUGH A FILTER BAG AND THE COLLECTED SEDIMENT SHALL BE DISPOSED OF PROPERTY. ALL AREAS DISTURBED DURING THIS PROCESS SHALL BE STABILIZED IMMEDIATELY THROUGH SEEDING AND MULCHING THE COUNTY CONSERVATION DISTRICT SHOULD BE CONTACTED PRIOR TO CONVERSION OR REMOVAL OF PRIMARY F&S BMPS AND MAY REQUIRE A SITE INSPECTION, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED (DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER, WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION IN ALL AREAS TRIBUTARY TO THE CONTROLS).
- 21. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ., AND 287.1 ET SEQ. THE CONTRACTOR SHALL NOT ILLEGALLY BURY DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES ON OR OFF THE SITE. THESE BUILDING WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALIT
- 22. PER NEW NPDES REQUIREMENTS, "WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT. INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPS IN ACCORDANCE WITH THE APPROVED PCSM PLAN OR LIPON SUBMISSION OF THE NOT IF SOONER THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT AND THE APPROVED E&S AND PCSM PLANS."

CONTRACTOR NOTES

- 1. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY DEP PRIOR TO IMPLEMENTATION.
- 4. SILT SOCK MUST BE INSTALLED AT LEVEL GRADE ALONG THE CONTOURS. BOTH ENDS OF EACH SILT SOCK SECTION MUST EXTEND AT LEAST 8 2. PER NEW NPDES REQUIREMENTS, "UPON THE INSTALLATION OR STABILIZATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES, THE PERMITTEE OR CO-PERMITTEE SHALL PROVIDE NOTIFICATION TO THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT."
 - 3. IF SOIL IT IS TAKEN TO OR BORROWED FROM ANOTHER CONSTRUCTION SITE, SAID SITE MUST HAVE AN APPROVED E&SPC PLAN. SEE THE "SOIL LIMITATIONS AND RESOLUTIONS" SECTION OF THIS E&S PLAN FOR FURTHER INFORMATION.
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 - 7. PER NEW NPDES REQUIREMENTS, "WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPS IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNED BY A LICENSED PROFESSIONAL AND BY THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS. COMPLETION CERTIFICATES ARE NEEDED TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE PERMIT AND THE APPROVED E&S AND PCSM PLANS."

BY	ABK/EG							
DATE	01/07/22							
REVISION	LEBANON COUNTY PLANNING DEPT. COMMENTS							
	EROSION AND SEDIMENT CONTROL NOTES	PRELIMINARY/FINAL LAND DEVELOPMENT PLAN	COMMUNITY HOMES OF LEBANON COUNTY, INC.	Iocated in North Lebanon Township	Lebanon County, Pennsylvania			
Steckbeck Engineering & Surveying Inc. 279 North Zinns Mill Road / Suite A Lebanon, Pennsyvania 17042 Phone: (717) 272–7348 Fax: (717) 272–7348								
FIE BA DF DE CF	FIELD CREW: SS,DY BASE MAP: JC/DY DRAWN: ABK, DJH DESIGN: ABK CHECKED: DJH							
D/ S(DATE: 11/30/21 SCALE: N/A PROJECT #355-21-003							
	21 OF 21 SHEETS							