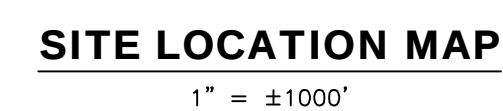


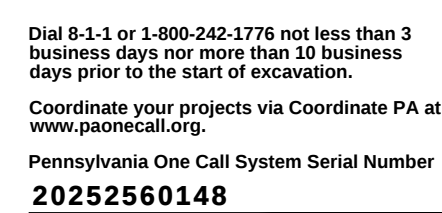
1257 ZEBLEY ROAD SUBDIVISION

1257 ZEBLEY ROAD
GARNET VALLEY, PA 19014

BETHEL TOWNSHIP
DELAWARE COUNTY
COMMONWEALTH OF PENNSYLVANIA



SHEET No.	DESCRIPTION
1.	COVER SHEET
2.	EXISTING CONDITIONS & DEMOLITION PLAN
3.	RECORD PLAN
4.	GRADING & UTILITIES PLAN
5.	EROSION & SEDIMENTATION CONTROL PLAN
6.	EROSION & SEDIMENTATION CONTROL DETAILS
7.	CONSTRUCTION DETAILS
8.	CONSTRUCTION DETAILS



SEAL: The seal is circular with a double-lined border. The outer ring contains the text "COMMONWEALTH OF" at the top and "PENNSYLVANIA" at the bottom. Inside the ring, a banner reads "REGISTERED PROFESSIONAL". Below this, the name "DAVID MCCLOSKEY" is printed. At the bottom, it says "ENGINEER" and "PE091730".

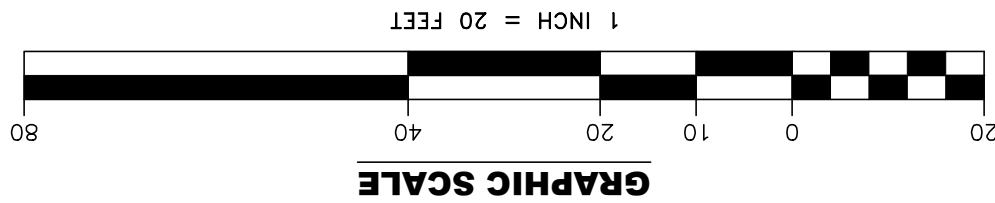
IA	PLAN TITLE: PRELIMINARY/FINAL LAND DEVELOPMENT PLAN
	SHEET TITLE: COVER SHEET

PREPARED BY:

WILKINSON
DESIGN GROUP, LLC

374 CIRCLE OF PROGRESS DRIVE
POTTSTOWN, PA 19464 / 610-323-3400

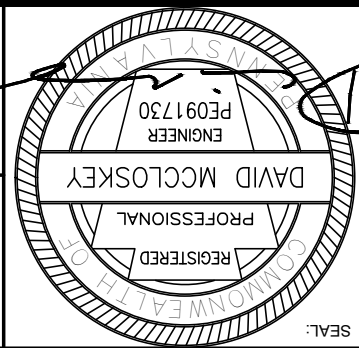
DESIGNED DWM	PROJECT # 2025-569
CHECKED (PM) RDJ	
DATE 10-25-2025	SHEET # 1 OF 8
SCALE N.T.S.	



811

Pennsylvania One Call System Serial Number
20252560148

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PROJECT
1257 ZEBLEY ROAD SUBDIVISION
GARNET VALLEY, PA 19060
DELAWARE COUNTY
PENNSYLVANIA

**PRELIMINARY/FINAL LAND
DEVELOPMENT PLAN**
**EXISTING CONDITIONS
& DEMOLITION PLAN**

WILKINSON
DESIGN GROUP, LLC
3714 CIRCLE OF PROGRESS DRIVE
POTTSTOWN, PA 19464 / 610-323-3400

PROJECT # 2025-599
DESIGNED DWM
CHECKED (PM) RDJ
DATE 10-25-2025
SCALE 1" = 20'
SHEET # 2 OF 8



- REFERENCE PLANS UTILIZED TO PREPARE PLAN.**
1. RECORD PLAN "SWEEPERWAY, 1257 ZEBLEY ROAD, PREPARED BY STANWART, INC. CONSULTING ENGINEERS & CONTRACTORS, DATED APRIL 24, 1998 AND LAST REVISED JANUARY 29, 1999 AND RECORDED IN THE DELAWARE COUNTY RECORDER OF DEEDS IN INSTRUMENT NO. 1999027314.
 2. SHOULD THE CONTRACTOR DESIRE TO REMOVE ANY WALL FROM THE PROJECTED ON THESE PLANS THEY MUST FIRST RECEIVE WRITTEN AUTHORIZATION FROM BOTH THE TOWNSHIP ENGINEER AND THE DESIGN ENGINEER.
 3. CONTRACTOR SHALL ESTABLISH ALL PROPOSED BROWN AND REDMONT CONTROL, BEFORE AND EARTH DISTURBANCE BEGINS.
 4. THE CONTRACTOR SHALL REMOVE ALL EXISTING STRUCTURES, AND ANY OTHER INFRASTRUCTURE REMAINING ON OR OFF SITE.
 5. CONTRACTOR SHALL REMOVE TRAILING CABLES AND CABLES ACCEPTED FOR REMOVAL IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAILING CABLES, AS WELL AS ANY CABLES REMAINING IN THE AREA.
 6. THE CONTRACTOR SHALL CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE AGENCY WHERE REQUIRED.
 7. DEMOLITION ACTIVITIES AND/OR VEHICLES SHALL NOT EXCEED OUTSIDE OF THE SUBJECT TRACT WITHOUT OBTAINING WRITTEN PERMISSION FROM THE ADJACENT PROPERTY OWNER AND THE MUNICIPALITY.
 8. USE DUST CONTROL MEASURES TO LIMIT THE AMOUNT OF AIRBORNE DUST AND DIRT BEING AND SCATTERED IN THE AIR TO WITHIN FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY DEMOLITION ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
 9. THE CONTRACTOR IS RESPONSIBLE FOR SAFE GUARDING THE PROJECT SITE FROM UNAUTHORIZED ACCESS AT ALL TIMES.
 10. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND/OR DISPOSAL OF ALL CONSTRUCTION WASTE AND/OR DEBRIS FROM THE SITE THROUGH APPROVED METHODS.

- NOTES:**
1. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN A ZONE X, AREA DETERMINED TO BE OUTSIDE THE 100-YEAR FLOOD RISK MAP, PER FLOOD INSURANCE RATE MAP PANEL NO. 4000000000, WITH AN ELEVATION OF 18.0000.
 2. THE LOCATION OF ALL UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS ABOVE GROUND STRUCTURES THAT WERE VISIBLE AND ACCESSIBLE IN THE FIELD AND MAPS OR PLANS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARK-OUTS DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES. STRUCTURES OR HOUSES COMING TO THE SURFACE ARE NOT TO BE CONSTRUCTED OR REMOVED. NO STATEMENT IS BEING MADE ON WHETHER IT BE CONSTRUCTED OR REMOVED. THE UNDERGROUNDS ARE NOT QUALIFIED TO MAKE ANY DETERMINATIONS OF THE EXISTENCE EITHER WRITTEN OR IMPLIED.
 3. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD (SEPTEMBER 2025) BY WILKINSON & ASSOCIATES, INC., AND OTHER REFERENCE MATERIAL (0002-1775 ON DIME 18-1-17).
 4. THE INFORMATION SHOWN HEREON CORRECTLY REPRESENTS THE CONDITIONS FOUND AS REPORTED.
 5. THE PURPOSE OF THIS SURVEY IS TO SHOW RECORD TITLE AND FIELD EVIDENCE AND INFORMATION AND BELIEVE IT IS FOR THE JUDICIARY TO DETERMINE THE ACTUAL EXTENT AND LOCATION OF TITLE, RIGHTS AND INTEREST OF THE SURVEYED PREMISES.
 6. THIS PARCEL MAY BE SUBJECT TO RESTRICTIONS, COVENANTS AND/OR EASEMENTS.
 7. THE UNDERGROUNDS ARE NOT QUALIFIED TO MAKE ANY DETERMINATIONS OF THE EXISTENCE EITHER WRITTEN OR IMPLIED.
 8. NO EASEMENT DOCUMENTATION WAS PROVIDED UNLESS SHOWN HEREON.
 9. THE BASIS OF THIS SURVEY ARE PER THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE).
 10. RECORD PLAN "SWEEPERWAY, 1257 ZEBLEY ROAD, PREPARED BY STANWART, INC. CONSULTING ENGINEERS & CONTRACTORS, DATED APRIL 24, 1998 AND LAST REVISED JANUARY 29, 1999 AND RECORDED IN THE DELAWARE COUNTY RECORDER OF DEEDS IN INSTRUMENT NO. 1999027314.

SITE DATA

REPUTED OWNER: ILIR AVDIU & YILKA GOCI
RECORD LOCATION: 1257 ZEBLEY ROAD, GARNET VALLEY, PA 19060
DEED BOOK 7070 PAGE 5988
ADMINISTRATOR OF THE ESTATE OF HERMAN KARLTON, BY DEED DATED 10/25/2022 AND BEING THE SAME PREMISES WHICH RAYMOND ANTHONY KARLTON, DEED BOOK 7070 PAGE 5988
SOURCE OF TITLE: DEED BOOK 7070 PAGE 5988
CONVEYED INTO THOMAS FORSHK
PARCEL NO.: 03-00-0050-00
TOTAL TRACT AREA (GROSS): 2.868 ACRES (124.11 ACRES)
TOTAL TRACT AREA (NET): 2.868 ACRES (124.11 ACRES)
SOURCE OF HORIZONTAL DATUM: NAVD83 BASED ON RTK GPS OBSERVATION
SOURCE OF VERTICAL DATUM: NAVD83 BASED ON RTK GPS OBSERVATION

EXISTING LEGEND

SCALE: 1" = ±2,000'

LOCATION MAP

DEMOLITION LEGEND

PROPOSED SAW-CUT LINE

(TBR) TO BE REMOVED, TEXT (RED)

(TBA) TO BE REMOVED, TEXT (ORANGE)

TO BE REMOVED, LINEWORK (RED)

TO BE ABANDONED, LINEWORK (PURPLE)

MISCELLANEOUS UTILITY LINES(S)

IRON PIN

SPOT ELEVATION

TREELINE

SOIL BOUNDARY AND DESIGNATION

CONCRETE

MAJOR ELEVATION CONTOUR

MINOR ELEVATION CONTOUR

HYDROIC SOILS

15.00%-25.00% SLOPES

>25% SLOPES

WETLAND BOUNDARY

CONCRETE

MAJOR ELEVATION CONTOUR

MINOR ELEVATION CONTOUR

HYDROIC SOILS

15.00%-25.00% SLOPES

>25% SLOPES

SOIL BOUNDARY AND DESIGNATION

TREELINE

SPOT ELEVATION

IRON PIN

SURVEY MONUMENT

STORM INLETS

STORM MANHOLE

SANITARY MANHOLE

UTILITY POLE W/ GUY ANCHOR

CLEAN OUT

SIGN

HYDRANT / WATER VALVE

CABLE

SANITARY SEWER

SANITARY FORCE MAIN

ELECTRIC SERVICE

WATER PIPE

IRRIGATION PIPE

GAS SERVICE

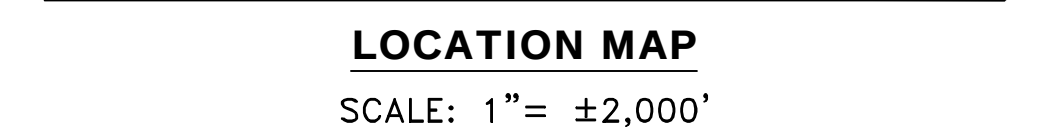
UNDERGROUND TELEPHONE LINE

OVERHEAD UTILITY LINE

FEKA FLOODPLAIN BOUNDARY

MISCELLANEOUS UTILITY LINES(S)

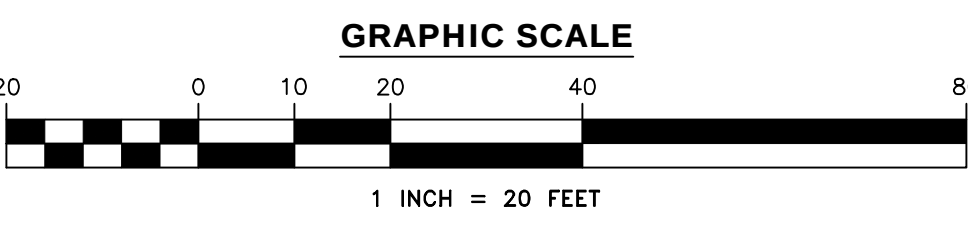
10-25-2025	3	
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	ULTIMATE RIGHT-OF-WAY LINE
	LOT LINE
	SETBACK LINE
	EASEMENT LINE
	CONCRETE MON./IRON PIN TO BE SET
	EDGE OF PAVEMENT
	EDGE OF GRAVEL
	CURB
	CENTERLINE
	STRIPING
	FENCE
	GUIDE/GUARD RAIL
	FLOODWAY LINE
	RIPARIAN BUFFER
	RIPARIAN BUFFER ZONE
	STREAM BUFFER LINE
	WETLAND BUFFER LINE
	ZONING IMPERVIOUS SURFACE
	BUILDING
	STONE/BRICK PERVIOUS PAVR SURFACE
	CONCRETE PAVEMENT
	ROADWAY PAVING
	DRIVEWAY PAVING
	GREENWAY OPEN SPACE
	TREE LINE
	TRAIL
	PROPOSED SAW-CUT LINE
	TRAFFIC SIGN
	SANITARY SEWER MANHOLE
	STORM SEWER INLET
	STORM SEWER YARD INLET
	STORM SEWER MANHOLE
	STORM SEWER ENDWALL W/ FLARED END SECTION
	WATER VALVE
	FIRE HYDRANT
	LAMP - LANTERN TYPE
	LAMP - POLE-MOUNTED
	LAMP - WALL-MOUNTED
	UTILITY POLE
	ELEVATION CONTOUR, MAJOR
	ELEVATION CONTOUR, MINOR
	SPOT ELEVATION
	SURFACE FLOW ARROW
	TREE LINE
	SEPTIC DISPOSAL FIELD
	STORMWATER DESIGN SOIL INFILTRATION (TEST DEPTH/ELEVATION)
	SANITARY DESIGN SOIL PERCOLATION
	STORM SEWER
	ROOF LEADER W/ CLEANOUT
	SANITARY GRAVITY SEWER
	SANITARY FORCE MAIN SEWER
	WATER PIPE
	ELECTRIC LINE
	GAS LINE
	TELECOM
	OVERHEAD LINE(S)
	MISCELLANEOUS UTILITY LINE(S)

- AND A. LATER PLAN NOTES.
- ALL CONTOURS AND SLOPE ELEVATIONS REPRESENT FINISHED GRADE. THIS INCLUDES THAT PLACEMENT OF TOP SOILS AND SEED OVER ROUGH GRADED AREAS. CONTRACTOR SHALL BE AWARE OF THESE FACTS AND GRADE ACCORDINGLY.
- PAVEMENT MUST BE SAW-CUT IN STRAIGHT LINES AND, EXCEPT FOR EDGE OR BUTT JOINTS, MUST EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT.
- CONNECTION OF PROPOSED LATERALS TO EXISTING UTILITY SERVICES MUST BE COORDINATED WITH APPROPRIATE FACILITY OWNERS.
- ANY CONFLICTS DETERMINED DURING EXCAVATION MUST IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER. THE CONTRACTOR SHALL MAKE NO ALTERNATE DESIGN DECISIONS WITHOUT FIRST CONSULTING WITH THE DESIGN ENGINEER.
- CONTRACTOR IS RESPONSIBLE TO INSTALL ALL GRAVITY LINES PER DESIGN WITH SUFFICIENT SLOPE TO DRAIN OR DISCHARGE. CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REPLACE AND PIPES THAT DO NOT MEET THE DESIGN REQUIREMENTS.

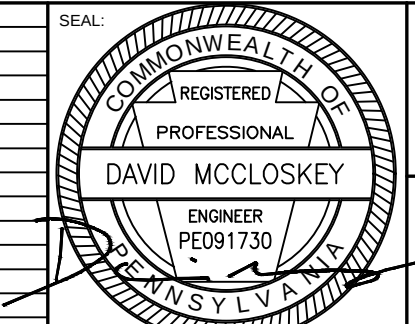
STORM STRUCTURE TABLE:	STORM PIPE TABLE:
INLET #1A	PIPE #1A
14" CONCRETE BOX INLET	55 LF 8" HDPE
GR=389.00	77.27% SLOPE
NV=385.00	
INLET #2A	PIPE #2A
14" CONCRETE BOX INLET	9 LF 8" HDPE
GR=383.50	95.56% SLOPE
NV=381.50	
INLET #1B	PIPE #1B
14" CONCRETE BOX INLET	8 LF 8" HDPE
GR=377.75	86.25% SLOPE
NV=381.50	



Dial 8-1-1 or 1-800-242-1776 not less than 3 business days nor more than 10 business days prior to the start of excavation.

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Pennsylvania One Call System Serial Number
2025260148

[illegible]

PROJECT:
1257 ZEBLEY ROAD SUBDIVISION
1257 ZEBLEY ROAD
GARNET VALLEY, PA 19060

BETHEL TOWNSHIP DELAWARE COUNTY PENNSYLVANIA

PREPARED FOR:
YLLKA GOCI
67 BISHOP DRIVE
ASTON, PA 19014

PLAN TITLE:

**PRELIMINARY/FINAL LAND
DEVELOPMENT PLAN**

SHEET TITLE:

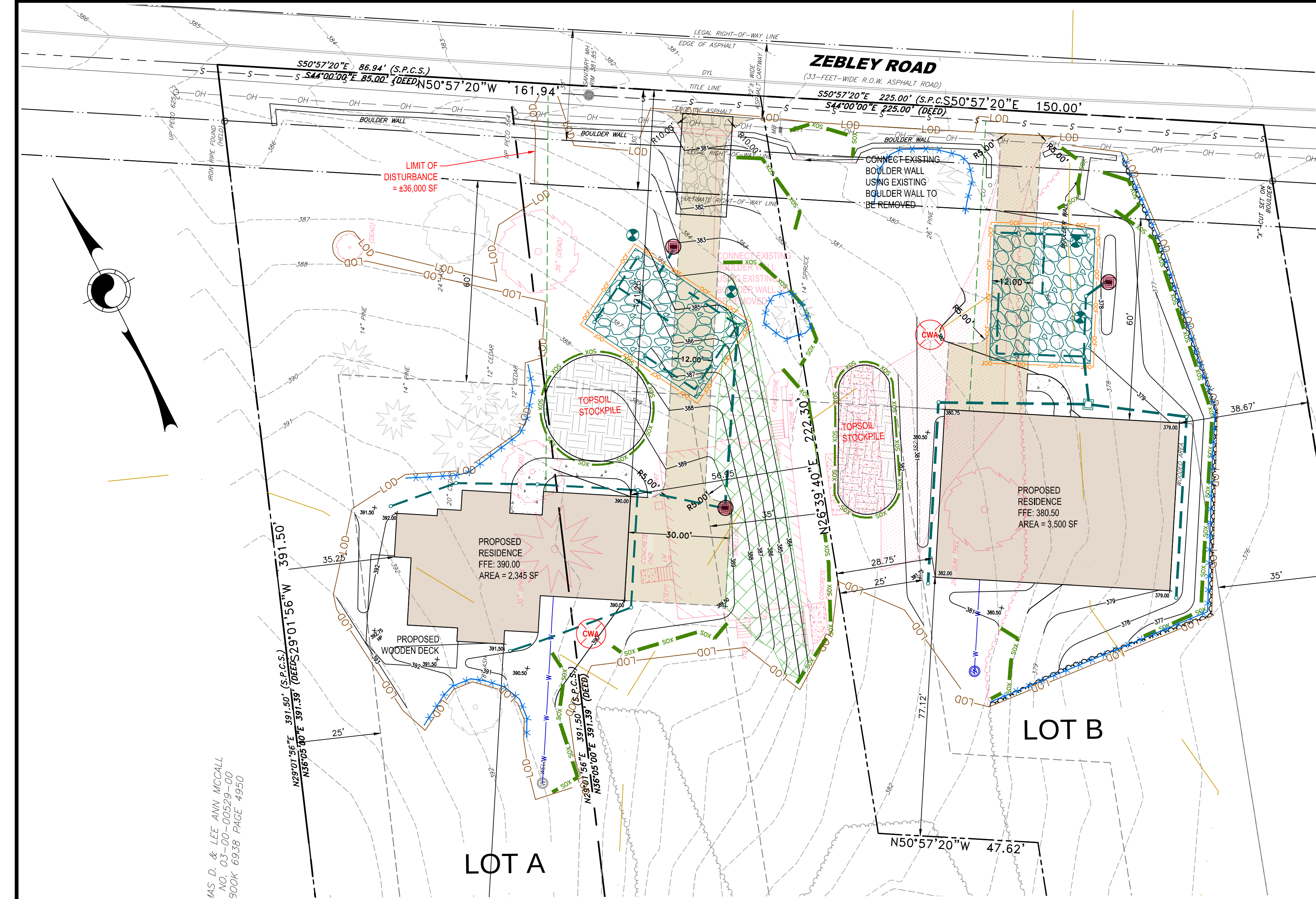
GRADING & UTILITIES PL

PREPARED BY:

WILKINSON
DESIGN GROUP, LLC

374 CIRCLE OF PROGRESS DRIVE
POTTSTOWN, PA 19464 / 610-323-3400

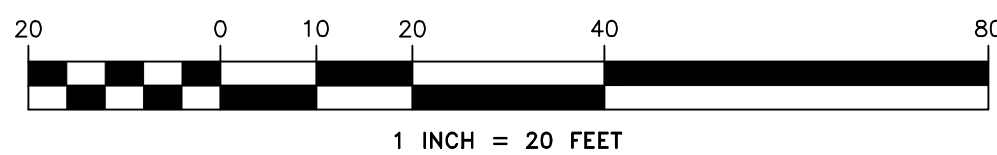
DESIGNED DWM	PROJECT # 2025-569
CHECKED (PM) RDJ	
DATE 10-25-2025	SHEET # 4 OF 8
SCALE 1" = 20'	



STANDARD E&S PLAN NOTES

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, AND THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN TO AN ON-SITE PRECONSTRUCTION MEETING.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED 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 TOWNSHIP PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) 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. STOCKPILE HEIGHTS SHALL NOT EXCEED 36 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE TOWNSHIP.
- 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 280.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM THE PROJECT SITE AREA ONTO PUBLIC ROADWAYS.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED IN THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOILED 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 MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDING AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN DRAWINGS. THOSE AREAS WHICH WILL BE REACTIVATED WITHIN 1 YEAR MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENT.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.

GRAPHIC SCALE



CONSTRUCTION TIMING AND SEQUENCE NOTES:
ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.

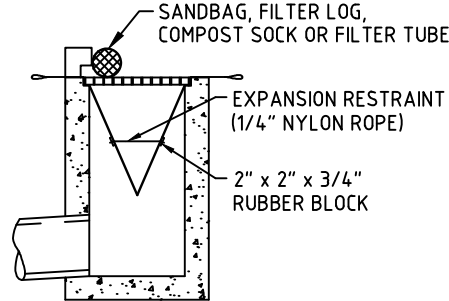
AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING THE CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE COUNTY CONSERVATION DISTRICT FOR AN ON-SITE PRE-CONSTRUCTION MEETING.

CONSTRUCTION TIMING AND SEQUENCE:

- NOTIFY THE TOWNSHIP THAT CONSTRUCTION IS GOING TO COMMENCE. ANTICIPATED DATE: SPRING 2026.
- INSTALL STABILIZED CONSTRUCTION ENTRANCES AS SHOWN FOR CONSTRUCTION ACCESS. THESE ENTRANCES MUST BE UTILIZED BY ALL CONSTRUCTION VEHICLES EXITING THE SITE.
- INSTALL TREE PROTECTION / CONSTRUCTION FENCING AS INDICATED ON PLAN. FENCING MUST BE IN PLACE AND APPROVED PRIOR TO ANY DISTURBANCE. THE LIMIT OF DISTURBANCE SHALL BE CLEARLY MARKED IN THE FIELD. ALL DISTURBANCE SHALL BE CONTAINED TO THE DELINEATED LIMIT OF CONSTRUCTION.
- INSTALL COMPOST FILTER SOCK ON DOWNHILL SIDE OF ANY EXCAVATION OR ANTICIPATED DISTURBANCE. COMPOST FILTER SOCK SHALL BE INSTALLED UP-SLOPE OF CONSTRUCTION FENCING. THE TOWNSHIP ENGINEER SHALL BE NOTIFIED FOLLOWING THE INSTALLATION OF THE PROTECTIVE BARRIERS AND 48 HOURS PRIOR TO THE START OF EARTHMOVING ACTIVITIES. ADDITIONAL SEDIMENT BARRIERS SHALL BE INSTALLED DOWNGRADE OF ANY DISTURBANCE AREAS AS NEEDED THROUGHOUT THE ENTIRE PROJECT.
- INSPECT SEDIMENT BARRIERS FREQUENTLY, ESPECIALLY AFTER HEAVY STORMS. REPLACE AND REPAIR SEDIMENT BARRIERS AS NECESSARY. PUMP THE TEMPORARY BASIN AS NEEDED AND REMOVE ACCUMULATED SEDIMENT IMMEDIATELY AFTER EACH RUNOFF EVENT.
- BEGIN DEMOLITION OF FEATURES NOTED FOR REMOVAL. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM SITE IN AN APPROVED MANNER.
- CLEAR AND GRUB THE REMAINDER OF THE AREAS WITHIN THE LIMITS OF DISTURBANCE OF EXISTING VEGETATION. STRIP TOPSOIL AND STOCKPILE SUITABLE MATERIAL FOR FUTURE USE. UNSUITABLE MATERIAL SHALL BE DISPOSED OF PROPERLY. SURROUND STOCKPILE WITH COMPOST FILTER SOCK. TEMPORARILY SEED, MULCH, ETC. ALL STOCKPILED TOPSOIL PER THE TEMPORARY SEEDING SPECIFICATIONS.
- ROUGH GRADE THE NEW DRIVEWAYS AND OTHER SITE AREAS AS NECESSARY. INSTALL E&S BLANKETS ON LOCATIONS SHOWN ON THE PLANS.
- INSTALL THE STORM INLETS AND ASSOCIATED STORMWATER PIPING. INSTALL INLET PROTECTION.
- INSTALL THE SITE UTILITIES AS NECESSARY FOR THE PROJECT. PROPOSED WATERLINE, SANITARY, AND ELECTRICAL LINE. RESTORE ROADWAY TO ORIGINAL CONDITIONS.
- EXCAVATE FOR AND CONSTRUCT BUILDING FOUNDATIONS AND ASSOCIATED IMPERVIOUS AREAS.
- CONTINUE WITH THE BUILDING CONSTRUCTION. INSTALL UTILITY CONNECTIONS AS NECESSARY AND INSTALL STONE BASE COURSE FOR DRIVEWAYS.
- CRITICAL STAGE (THE SITE'S DESIGNATED LICENSED PROFESSIONAL SHALL BE ON SITE TO INSPECT THE INSTALLATION OF THE PCSM FACILITIES). INSTALL SWALES AND UNDERGROUND STONE BEDS. ANY SWALE LINERS DAMAGED DURING CONSTRUCTION MUST BE REPLACED IMMEDIATELY.
- FINAL GRADE LOT WITH BUILDING CONSTRUCTION. AS LAWN AREAS ARE BROUGHT TO GRADE, THEY SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 5-12" AND PROVIDED WITH A MINIMUM OF 8" TOPSOIL AND SEEDING IMMEDIATELY. ALL VEGETATED AREAS SHALL BE STABILIZED WITH VEGETATION AND MULCH AS SOON AS POSSIBLE.
- INSTALL THE LANDSCAPE AND LANDSCAPE FEATURES AND REMOVE MATERIALS NOT REQUIRED FOR FINAL CONSTRUCTION. DISPOSE OF THEM IN AN APPROVED MANNER AND STABILIZE THE CONSTRUCTION STAGING AREA. INSTALL FINAL TOP COURSES ON THE ROAD AND ALL PAVED AREAS.
- UNTIL THE SITE IS STABILIZED ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEANOUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING, MUST BE PERFORMED IMMEDIATELY.
- REMOVE EXCAVATED MATERIALS NOT REQUIRED FOR FINAL CONSTRUCTION FROM SITE AND DISPOSE OF THEM IN AN APPROVED MANNER.
- INSTALL LANDSCAPE MATERIALS AND HARDSCAPE MATERIALS.
- IMMEDIATELY SEED AND STABILIZE ANY AREAS DENUDED BY REMOVAL OF SEDIMENT BARRIERS.
- COMPLETE CONSTRUCTION: ANTICIPATED DATE: FALL 2026.
- CRITICAL STAGE INSPECTION - THE DESIGNATED LICENSED PROFESSIONAL SHALL PERFORM A FINAL INSPECTION OF THE INSTALLED PCSM BMPs TO VERIFY THEY WERE NOT IMPACTED BY CONSTRUCTION ACTIVITIES THAT OCCURRED AFTER INSTALLATION. THE SITE WILL BE CONSIDERED TO BE PERMANENTLY STABILIZED WHEN ALL PERMANENT CONTROL MEASURES/FACILITIES HAVE BEEN COMPLETED AND ARE OPERATIONAL. TEMPORARY CONTROL MEASURES/FACILITIES REMOVED, AND UNIFORM EROSION RESISTANT VEGETATION IS ESTABLISHED TO THE POINT WHERE THE SURFACE SOIL IS CAPABLE OF RESISTING EROSION DURING RUNOFF EVENTS. THE STANDARD FOR THIS VEGETATIVE COVER WILL BE UNIFORM COVERAGE OR DENSITY OF 70% ACROSS THE DISTURBED AREA.

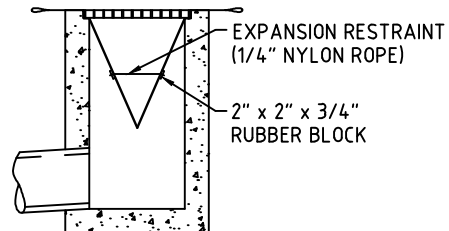
EROSION CONTROL LEGEND

- PROJECT SITE BOUNDARY
- LIMIT OF DISTURBANCE
- TEMPORARY TREE PROTECTION FENCE
- ORANGE CONSTRUCTION FENCE
- COMPOST FILTER SOCK
- DIVERSION BERM
- SILT FENCE
- TEMPORARY ELEVATION CONTOUR
- TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
- TEMPORARY TOPSOIL STOCKPILE
- ECS-1/C OR S75/C EROSION CONTROL BLANKET TYPE/STAPLE PATTERN
- CONCRETE WASH AREA
- TEMPORARY INLET PROTECTION
- TEMPORARY BLOCKED INLET

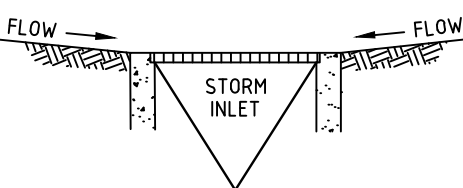


TYPIC C INSTALLATION DETAIL

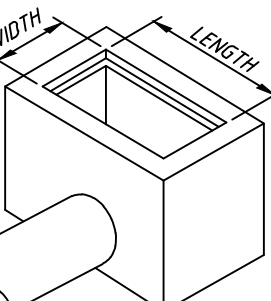
CONSTRUCT INLETS PER THE SPECIFICATIONS ON THE PCSM PLANS. INSTALL BUTYRUM, BUTYL RUBBER SEALANT UNDER TOP UNIT. GRADE ADJUSTMENT RING AND ALL BOX SECTION JOINTS FOR ALL INLETS.



TYPIC M INSTALLATION DETAIL



ELEVATION VIEW



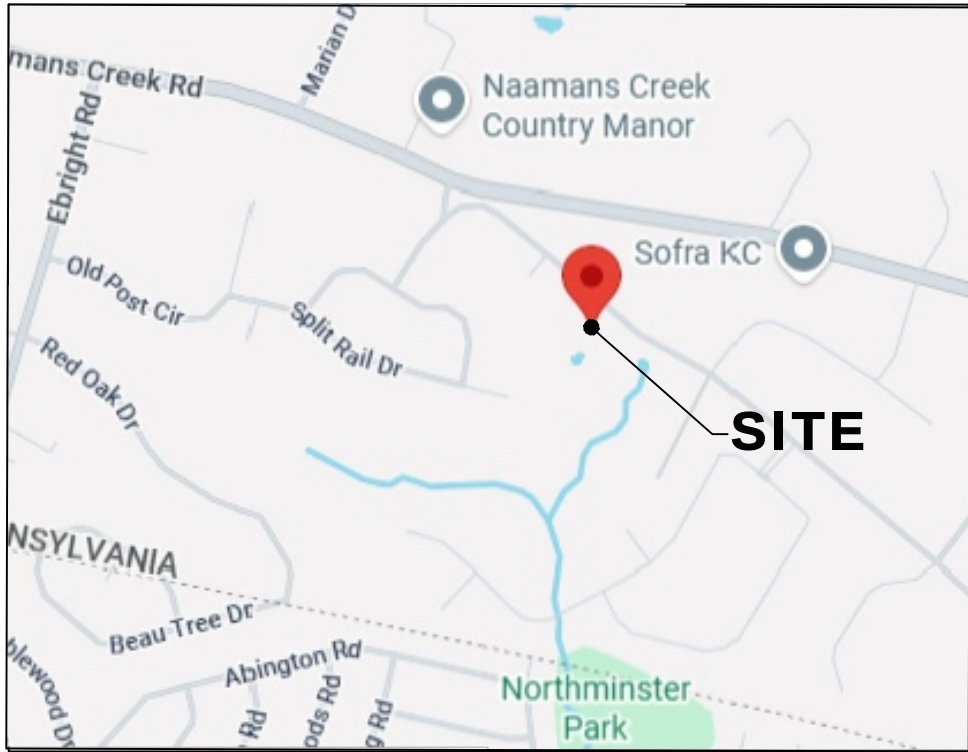
ISOMETRIC VIEW

NOTES:

- MAXIMUM DRAINAGE AREA = 1/2 ACRE
- AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.
- ADS FLEXSTORM INLET FILTER BAGS OR APPROVED EQUAL SHALL BE USED IN LINE DRAINS AND DRAIN BASINS.
- INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN 1/2 FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

FILTER BAG INLET PROTECTION

NOT TO SCALE



LOCATION MAP

SCALE: 1" = ±2,000'

PROPOSED LEGEND

- ULTIMATE RIGHT-OF-WAY LINE
- LOT LINE
- SETBACK LINE
- EASEMENT LINE
- CONCRETE MON/IRON PIN TO BE SET
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- CURB
- DIVERSION BERM
- CENTERLINE
- STRIPING
- FENCE
- GUIDE/GUARD RAIL
- FLOODWAY LINE
- RIPARIAN BUFFER
- RIPARIAN BUFFER ZONE
- STREAM BUFFER LINE
- WETLAND BUFFER LINE
- ZONING IMPERVIOUS SURFACE
- BUILDING
- STONE/BRICK PERVIOUS PAVEMENT SURFACE
- CONCRETE PAVEMENT
- ROADWAY PAVING
- DRIVEWAY PAVING
- GREENWAY OPEN SPACE
- TREE LINE
- TRAIL
- PROPOSED SAW-CUT LINE
- TRAFFIC SIGN
- SANITARY SEWER MANHOLE
- STORM SEWER INLET
- STORM SEWER YARD INLET
- STORM SEWER MANHOLE
- STORM SEWER ENDWALL W/ FLARED END SECTION
- WATER VALVE
- FIRE HYDRANT
- LAMP - LANTERN TYPE
- LAMP - POLE-MOUNTED
- LAMP - WALL-MOUNTED
- UTILITY POLE
- ELEVATION CONTOUR, MAJOR
- ELEVATION CONTOUR, MINOR
- SPOT ELEVATION
- SURFACE FLOW ARROW
- TREE LINE
- SEPTIC DISPOSAL FIELD
- STORMWATER DESIGN SOIL INFILTRATION TEST PIT (TEST DEPTH/ELEVATION)
- SANITARY DESIGN SOIL PERCOLATION TEST PIT
- STORM SEWER
- ROOF LEADER W/ CLEANOUT
- SANITARY GRAVITY SEWER
- SANITARY FORCE MAIN SEWER
- WATER PIPE
- ELECTRIC LINE
- GAS LINE
- TELECOM
- OVERHEAD LINE(S)
- MISCELLANEOUS UTILITY LINE(S)

CONSTRUCTION SPECIFICATIONS FOR STORMWATER MANAGEMENT SYSTEMS

1. ALTER AND REFINE THE GRADES AS NECESSARY TO BRING SUBGRADE TO REQUIRED GRADES AND SECTIONS AS SHOWN IN THE DRAWINGS. THE BOTTOM OF ALL INFILTRATION BMPs SHALL BE UNDISTURBED OR UNCOMPACTED SUBGRADE.
2. THE TYPE OF EQUIPMENT USED IN SUBGRADE PREPARATION CONSTRUCTION SHALL NOT CAUSE UNDESIRABLE SUBGRADE COMPACTION, TRAFFIC OVER SUBGRADE SHALL BE KEPT AT A MINIMUM.
3. INSTALL POLYPROPYLENE NONWOVEN GEOTEXTILE FABRIC WHICH MEETS PADOT CLASS 1 SPECIFICATIONS (I.E. DUPONT TYPAR #3401, AMOCO PROPEX #4545, OR APPROVED EQUAL) ON BOTTOM OF BED AREAS AND TACK UP SIDES OF EXCAVATION. WHERE EDGES OF ROLLS OVERLAP, THEY SHALL DO SO BY AT LEAST EIGHTEEN INCHES. ADEQUATE FABRIC SHALL BE LEFT ON THE ROLLS (NOT CUT FROM SIDE INSTALLATION) TO FACILITATE OVERTOPPING THE SYSTEM AT COMPLETION OF INSTALLATION. INFILTRATION BMP FILTER FABRIC AND STONE SHOULD BE KEPT CLEAN OF SOIL/SEDIMENT DURING THE INSTALLATION PROCESS. IF INSPECTION INDICATES THAT SOIL/SEDIMENT HAS ENTERED ANY OF THE INFILTRATION SEEPAGE BEDS, APPROPRIATE MEASURES (I.E. CLEANING THE SOIL/SEDIMENT FROM FABRIC, STONE, BED ETC. AND/OR REPLACEMENT OF THE FABRIC AND STONE) SHOULD BE ADDRESSED.
4. ALL STONE FOR THE CONSTRUCTION OF THE OF THE INFILTRATION BMP SHALL BE UNIFORMLY GRADED AND CLEAN, WASHED, AGGREGATE. THE STONE SHALL MEET PENNDOT/AASHTO #1 SPECIFICATIONS. STONE TO BE CHECKED BY THE DESIGN OR SITE ENGINEER PRIOR TO INSTALLATION.
5. STONE BASE COURSE SHALL BE LAID OVER A DRY SUBGRADE TO A DEPTH SHOWN IN DRAWINGS. DO NOT ROLL OR COMPACT THE STONE BASE COURSE. KEEP THE BASE COURSE CLEAN FROM DEBRIS, CLAY AND ERODING SOIL. INSTALL TANKS AND PIPE AS SHOWN AND BACKFILL WITH STONE.
6. COVER SYSTEM WITH REMAINING FABRIC, ALLOWING OPENINGS FOR ACCESS COVERS.
7. SYSTEM TO BE TOTALLY ENCLOSED IN THE NON-WOVEN GEOTEXTILE FABRIC.
8. INFILTRATION BMP FILTER FABRIC AND STONE SHOULD BE KEPT CLEAN OF SOIL/SEDIMENT DURING THE INSTALLATION PROCESS.
9. AFTER THE INFILTRATION BED IS COMPLETELY INSTALLED, ALL HEAVY CONSTRUCTION EQUIPMENT SHALL BE RESTRICTED FROM THE INFILTRATION BEDS TO ELIMINATE IMPACTS WHICH MAY COMPROMISE IT. IN THE EVENT ANY IMPACTS COMPROMISE THE FUNCTIONALITY OF THE INFILTRATION BEDS, IT MUST BE IMMEDIATELY REPAIRED OR REPLACED TO DESIGN SPECIFICATIONS.
10. INFLOW AND OUTFLOW POINTS INTO THE INDIVIDUAL ON-LOT SYSTEMS SHOULD BE KEPT CLEAR OF LEAVES AND OTHER DEBRIS. ANY LEAVES OR DEBRIS WILL NEGATIVELY IMPACT THE PERFORMANCE OF THESE SYSTEMS. ALL DOWNSPOUTS AND OVERFLOW PIPES SHOULD BE KEPT IN GOOD WORKING ORDER.
11. PERMANENT PCSM SYSTEMS SHALL NOT RECEIVE RUNOFF UNTIL THE ENTIRE DRAINAGE AREA CONTRIBUTING TO THE INFILTRATION BMP HAS ACHIEVED FINAL STABILIZATION.

- MAINTENANCE OF PERMANENT STORMWATER MANAGEMENT FACILITIES
- A. THE RESPONSIBILITY FOR THE INSTALLATION AND MAINTENANCE AND OPERATION DURING CONSTRUCTION OF THE PERMANENT STORMWATER MANAGEMENT SYSTEMS AND OTHER FACILITIES SHALL BE THE OBLIGATION OF THE CONTRACTOR.
 - B. THE RESPONSIBILITY FOR THE CONTINUED MAINTENANCE AND OPERATION OF THE PERMANENT STORMWATER MANAGEMENT SYSTEMS AND OTHER FACILITIES SHALL BE THE OBLIGATION OF THE OWNER.
 - C. EFFECTIVE STORMWATER MANAGEMENT SHALL REQUIRE MAINTENANCE AND OPERATION OF DRAINAGE INFRASTRUCTURE FOR PURPOSES OF MAINTAINING FLOW TO PREVENT FLOODING OR EROSION CONDITIONS. ALL STORMWATER FACILITY REPAIRS SHALL BE PERFORMED IN A MANNER THAT DOES NOT EXACERBATE EXISTING STORMWATER PROBLEMS.

1. THE RECHARGE FACILITY MUST BE INSPECTED FOR ROUTINE MAINTENANCE A MINIMUM OF TWO TIMES A YEAR, ONCE IN THE EARLY SPRING AND ONCE IN THE FALL AFTER THE MAJORITY OF THE LEAVES HAVE FALLEN.
2. VISUAL OBSERVATION OF THE GROUND SURFACE TO DETECT PONDING OF WATER OR GROUND SETTLEMENTS THAT WOULD PREVENT RUNOFF FROM ENTERING INLETS AS DESIGNED MUST BE MADE. THE DRAINAGE AREAS DESIGNED FOR THE SYSTEM MUST BE MAINTAINED. IF NECESSARY, ADJUSTMENTS TO THE GRADING OR INLETS MUST BE MADE TO ENSURE THAT THE SYSTEM IS FUNCTIONING AS DESIGNED. SMALL SINKHOLES CAN BE REPAIRED EASILY BY FILLING WITH TOPSOIL AND MAY BE THE RESULT OF SETTLEMENT OF THE SOILS. LARGER SINKHOLES OR SINKHOLES THAT REAPPEAR IN THE SAME LOCATION MAY INDICATE A BREACH IN THE GEOTEXTILE LINER, INLET BOX STRUCTURE, PIPE CONNECTION, OR BREAK IN A STORM CONVEYANCE LINE. THESE TYPES OF SINKHOLES MUST BE EXCAVATED AND THE FAILURE IDENTIFIED AND REPAIRED IMMEDIATELY IN ORDER TO PREVENT SOIL FROM ENTERING THE SEEPAGE BED AND CLOGGING IT OR REDUCING THE CAPACITY OF THE BASIN FOR RECHARGE OF RUNOFF.
3. ALL SEDIMENT TRAPS AND INLETS MUST BE VISUALLY INSPECTED SEVERAL TIMES PERIODICALLY THROUGHOUT THE YEAR FOR ACCUMULATED SOIL AND DEBRIS. INLET GRATES MUST BE KEPT FREE OF LEAVES, STICKS, MULCH, AND OTHER LAWN DEBRIS OR TRASH THAT WOULD PREVENT INFLOW OF RUNOFF. SUMP IN SEDIMENT TRAPS OR INLET BOTTOMS MUST HAVE ACCUMULATED SEDIMENT REMOVED TO ENSURE DESIGN CAPACITY SUFFICIENT TO TRAP SEDIMENT AND DEBRIS FROM ENTERING ANY SEEPAGE BED. ANY WEEP HOLES IN THE BOTTOM OF THE INLETS OR SEDIMENT TRAP SHOULD BE CLEARED TO ALLOW WATER TO SEEP OUT.
4. ONCE A YEAR FOLLOWING A STORM EVENT, THE SEEPAGE BED MUST BE INSPECTED TO DETERMINE IF IT IS DRAINING WITHIN THE REQUIRED TIME PERIOD (USUALLY TWENTY-FOUR HOURS). THE INSPECTION PORT SHALL BE OPENED AT LEAST TWENTY-FOUR HOURS FOLLOWING A STORM AND THE LEVEL OF WATER IN THE BED NOTED. VENTED CLEAN-OUTS MUST BE CHECKED TO ENSURE OPENINGS ARE CLEAR. ADJUSTMENTS TO THE CLEANOUTS MUST BE MADE IF SOIL OR OTHER LAWN DEBRIS IS OBSERVED TO BE ENTERING THE SYSTEM. IF IT IS DETERMINED THAT THE SYSTEM WILL NOT RECHARGE THE STORMWATER RUNOFF AS DESIGNED, THE TOWNSHIP SHALL BE CONTACTED FOR APPROVAL OF ANY MODIFICATION OR REPLACEMENT OF THE SYSTEM.
5. ANY CLEAN-OUT, INLET, OR LEVEL SPREADER THAT HAS BEEN DAMAGED BY LAWN EQUIPMENT MUST BE REPLACED OR REPAIRED. CLEAN-OUTS SHALL BE MAINTAINED AT GRADE. THE CONFIGURATION MUST NOT ALLOW SOIL OR OTHER DEBRIS TO CLOG THE COLLECTION PIPE. ALL COLLECTION PIPES MUST BE CHECKED ANNUALLY TO ENSURE THEY ARE FLOWING FREELY. IF THE COLLECTION PIPES BECOME CLOGGED, JET CLEANING MUST BE PERFORMED AT THE CLEAN-OUTS. ADDITIONAL PROTECTION MUST BE MADE AT THE SEDIMENT TRAP DURING JET CLEANING TO ENSURE THAT DEBRIS IS NOT TRANSMITTED TO THE SEEPAGE BED.
6. THE OUTLET PIPE OR CONNECTION OF THE OUTLET OF THE BASIN MUST BE CHECKED TO ENSURE THAT IT IS PERMITTING FREE FLOW OF WATER OUT OF THE BASIN. ALSO, THE CONVEYANCE PIPE TO PROPOSED LEVEL SPREADER SHALL BE INSPECTED AND REPAIRED AS REQUIRED.
7. TREES SHALL NOT BE PLANTED OR PERMITTED TO GROW IN THE VICINITY OF SEEPAGE BEDS OR STRUCTURES TO ENSURE THAT TREE ROOTS DO NOT PUNCTURE THE FILTER FABRIC OF THE SEEPAGE BED OR DAMAGE ANY STORMWATER COLLECTION/CONVEYANCE STRUCTURE.
8. ROOF GUTTER SYSTEMS THAT ARE INTEGRAL WITH THE SEEPAGE BED MUST BE FUNCTIONAL. REPAIRS TO GUTTERS THAT BECOME SEPARATED, SAG, OR OTHERWISE DO NOT FUNCTION AS DESIGNED MUST BE MADE.
9. PREVENTATIVE MAINTENANCE SHALL BE PERFORMED WHICH WOULD INCLUDE REMOVAL OF LEAVES FROM GUTTER SYSTEMS AND LAWN AREAS AS SOON AS POSSIBLE TO AVOID CONTAMINATION OR CLOGGING OF THE SYSTEM. LOCATING LANDSCAPE-MULCHED AREAS AWAY FROM CONCENTRATED RUNOFF AREAS OR SWALES THAT COULD WASH MULCH INTO INLETS IS RECOMMENDED.

NO PERSON SHALL MODIFY, REMOVE, FILL, LANDSCAPE OR ALTER ANY EXISTING STORMWATER BMP, UNLESS PART OF AN APPROVED MAINTENANCE PROGRAM, WITHOUT THE WRITTEN APPROVAL OF THE MUNICIPALITY(S).

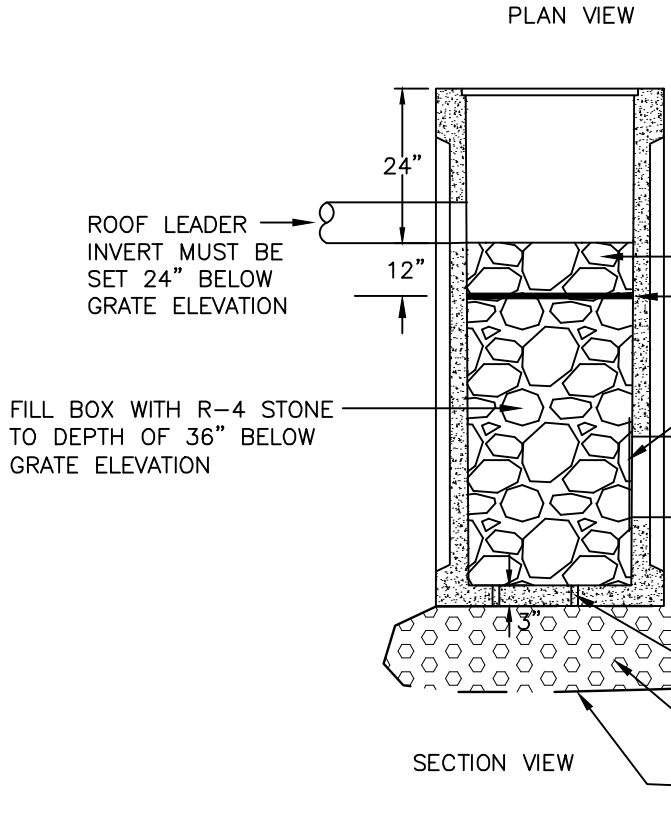
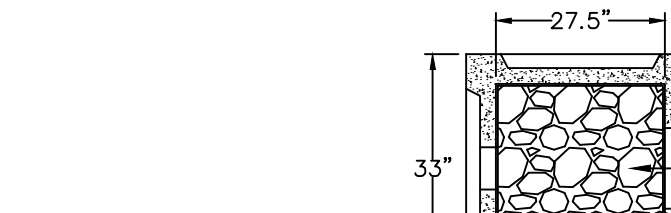
NO PERSON SHALL PLACE ANY STRUCTURE, FILL, LANDSCAPING OR VEGETATION INTO A STORMWATER BMP OR WITHIN A DRAINAGE EASEMENT, WHICH WOULD LIMIT OR ALTER THE FUNCTIONING OF THE BMP, WITHOUT THE WRITTEN APPROVAL OF THE MUNICIPALITY(S).

INFILTRATION BMP NOTES:

1. INFILTRATION BMP FILTER FABRIC AND STONE SHOULD BE KEPT CLEAN OF SOIL/SEDIMENT DURING THE INSTALLATION PROCESS. IF INSPECTION INDICATES THAT SOIL/SEDIMENT HAS ENTERED THE PCSM INFILTRATION SYSTEM, APPROPRIATE MEASURES (I.E. CLEANING THE SOIL/SEDIMENT FROM THE FABRIC, STONE, BED, ETC. AND/OR REPLACEMENT OF THE FABRIC AND STONE) SHOULD BE ADDRESSED.
2. ALL STONE FOR THE CONSTRUCTION OF THE INFILTRATION BMP SHOULD BE UNIFORMLY GRADED AND CLEAN WASHED STONE.
3. THE BOTTOM OF ALL INFILTRATION BMPs SHALL BE UNDISTURBED OR UNCOMPACTED SUBGRADE.
4. INFLOW AND OUTFLOW POINTS INTO THE INDIVIDUAL ON-LOT SYSTEMS SHOULD BE KEPT CLEAR OF LEAVES AND OTHER DEBRIS. ANY LEAVES AND DEBRIS WILL NEGATIVELY IMPACT THE PERFORMANCE OF THESE SYSTEMS. ALL DOWNSPOUTS AND OVERFLOW PIPES SHOULD BE KEPT IN GOOD WORKING ORDER.
5. PRIOR TO THE PLACEMENT OF STONE IN THE PCSM INFILTRATION SYSTEM, THE CONTRACTOR SHALL MAKE A TEST PIT 2 FEET BELOW THE BED BOTTOM TO ENSURE THAT BEDROCK AND/OR GROUNDWATER ARE NOT PRESENT IN THIS ZONE. IN THE EVENT THAT GROUNDWATER AND/OR BEDROCK ARE WITHIN 2 FEET OF BED BOTTOM, THE BED SHALL BE RELOCATED AND REDESIGNED BEFORE CONSTRUCTION MAY CONTINUE.
6. AFTER THE PCSM INFILTRATION SYSTEM IS COMPLETELY INSTALLED, ALL HEAVY CONSTRUCTION EQUIPMENT SHALL BE RESTRICTED FROM THE INFILTRATION BEDS TO ELIMINATE IMPACTS WHICH MAY COMPROMISE IT. IN THE EVENT ANY IMPACTS COMPROMISE THE FUNCTIONALITY OF THE BMP INFILTRATION SYSTEMS, IT MUST BE IMMEDIATELY REPAIRED OR REPLACED TO DESIGN SPECIFICATIONS.
7. ALL BMP INFILTRATION SYSTEMS SHALL BE LOCATED A MINIMUM OF 10' FROM A BASEMENT WALL.

CONSTRUCTION NOTES:

1. GEOTEXTILE FABRIC SHALL BE CLEAN NON-WOVEN GEOTEXTILE (PERMEABLE FILTER FABRIC) CLASS 1 AND SHALL BE IN ACCORDANCE WITH PADOT SPECIFICATION FROM 408. THE TYPE AND/OR THICKNESS SHALL BE DUPONT TYPAR #3401, AMOCO PROPEX #4545 OR APPROVED EQUAL OR AS OTHERWISE INDICATED ON THE PLAN.
2. ALL STONE USED FOR THE CONSTRUCTION OF THE INFILTRATION BMP SHALL BE UNIFORMLY GRADED, CLEAN, AND WASHED CRUSHED STONE AGGREGATE MEETING PENNDOT/AASHTO #3 SPECIFICATIONS.
3. ALL PERSONS ENTERING ACTIVE TANKS, MANHOLES, INLETS, ETC. MUST COMPLY WITH OSHA REQUIREMENTS FOR ENTRY INTO CONFINED SPACES.
4. RAIN WATER CONDUCTORS ARE TO COLLECT ALL ROOF RUNOFF AND CONVEY IT TO THE APPROPRIATE STORMWATER MANAGEMENT FACILITY.
5. CLEANOUTS ARE REQUIRED AT ALL CHANGES IN DIRECTION OF THE ROOF DRAINS AND SANITARY SEWER LATERALS.
6. ALL SEEPAGE BEDS SHALL BE INSTALLED WITH A MINIMUM SEPARATION DISTANCE OF 10 FEET FROM ALL BASEMENT WALLS.
7. ALL CMP AND HCMF SHALL BE ALUMINUM OR ALUMINIZED STEEL.
8. ALL HDPE PIPE SHALL BE SMOOTH INTERIOR FLOW.
9. ALL PVC PIPE SHALL BE SDR 35.
10. THE RISER CONNECTIONS IN THE STORMWATER MANAGEMENT SYSTEM SHALL BE WATERTIGHT. REFER TO DETAILS.
11. WHERE DRAINAGE SWALES ARE WITHIN 20' OF A BASEMENT, WATERPROOFING SHALL BE APPLIED TO THE BASEMENT.



MAINTENANCE NOTES:

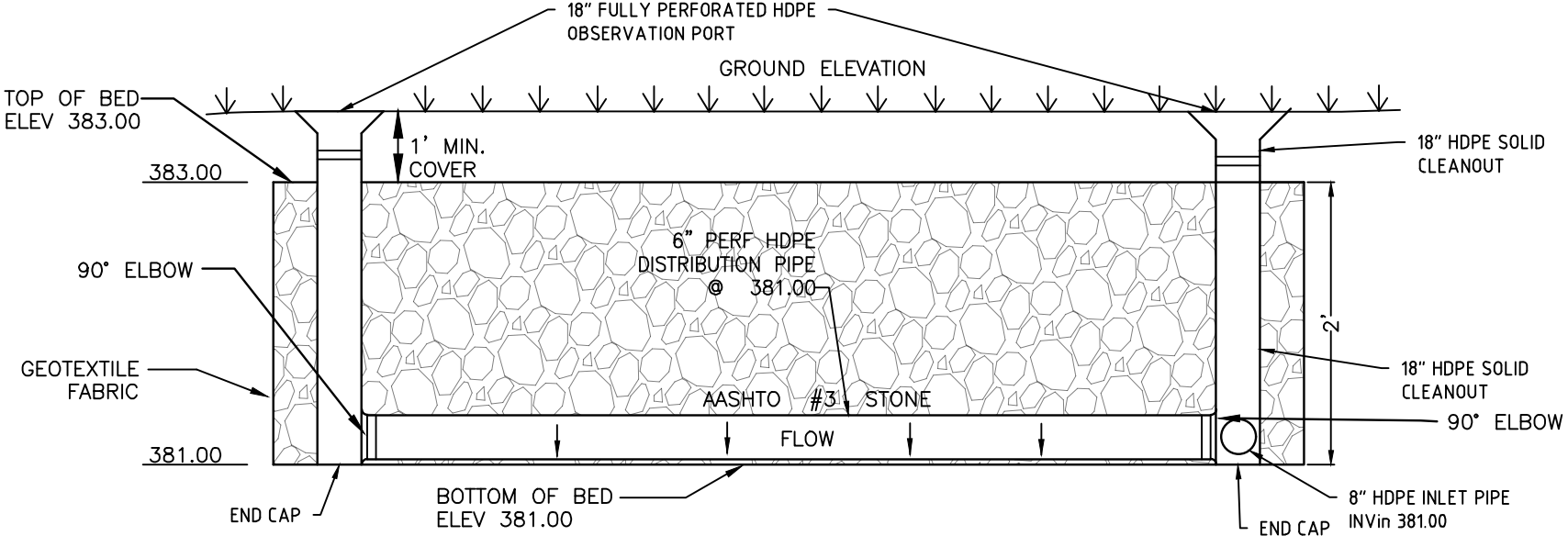
1. USED FOR YARD INLETS 1, AND 3.
2. 12" DEPTH RIVER ROCK AND GEOTEXTILE SHOULD BE CLEANED ANNUALLY.
3. STONE FILLED INLETS SHOULD BE TESTED EVERY FIVE (5) YEARS TO VERIFY CONTINUED INFILTRATION OF WATER INTO BASIN. IF WATER FAILS THE DRAIN OUT OF INLET BOX ALL STONE SHALL BE REMOVED AND REPLACED.

2'X2' SUMP BOX ROOF LEADER CONNECTION DETAIL

N.T.S.

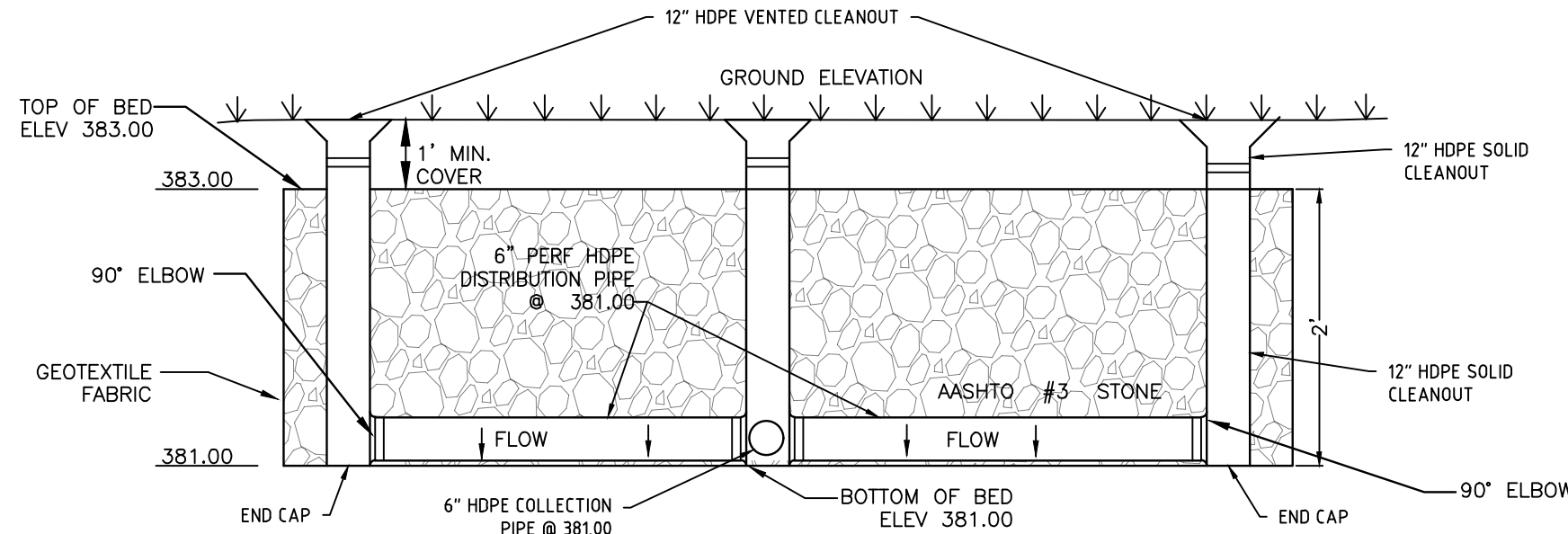
27'x40'x2.0' STONEBED PLAN VIEW

NTS



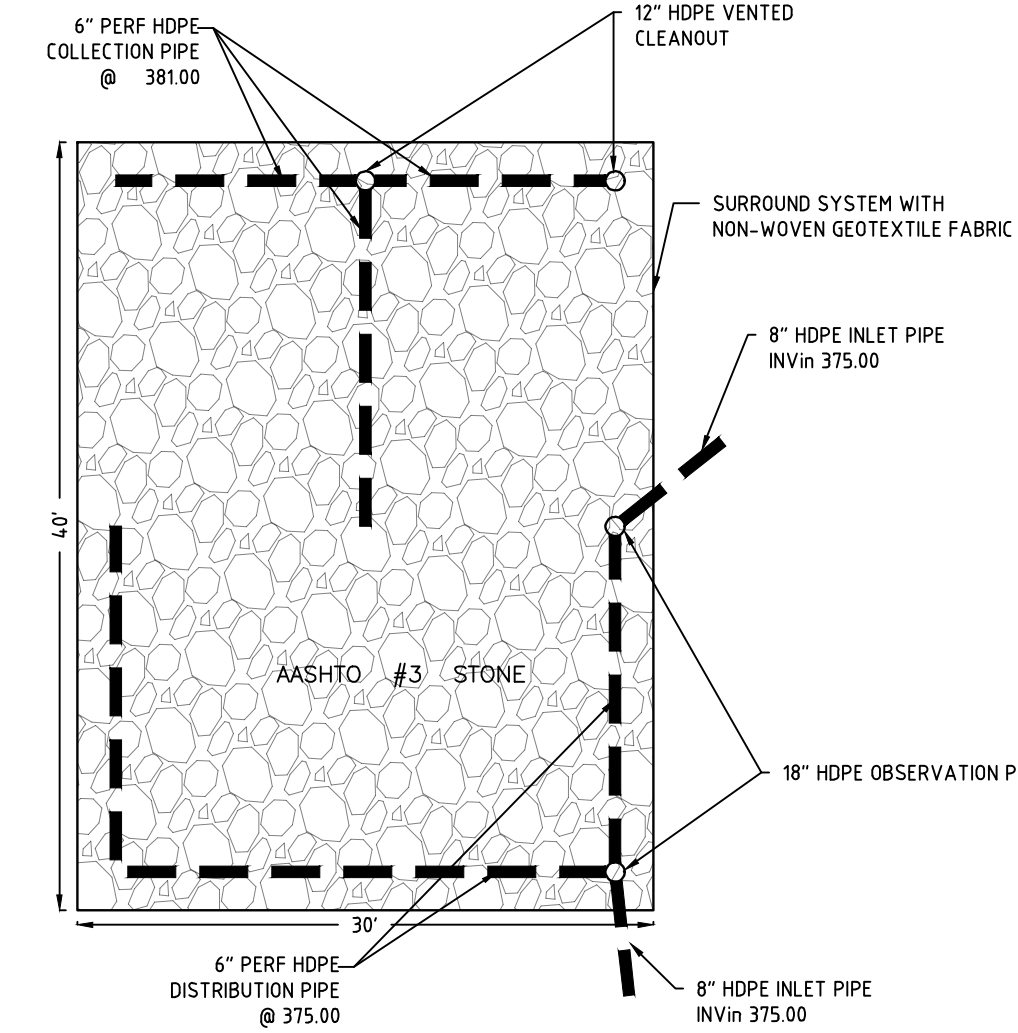
27'x40'x2.0' STONEBED DISTRIBUTION PIPE SECTION

N.T.S.



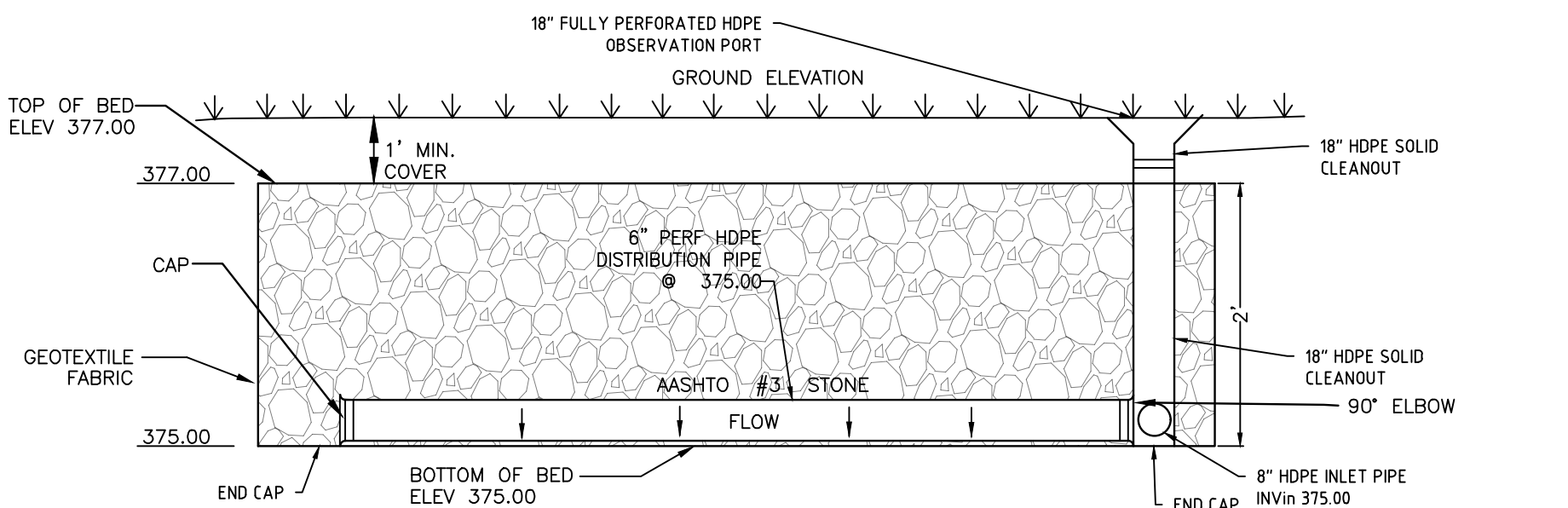
27'x40'x2' STONEBED COLLECTION PIPE SECTION

N.T.S.



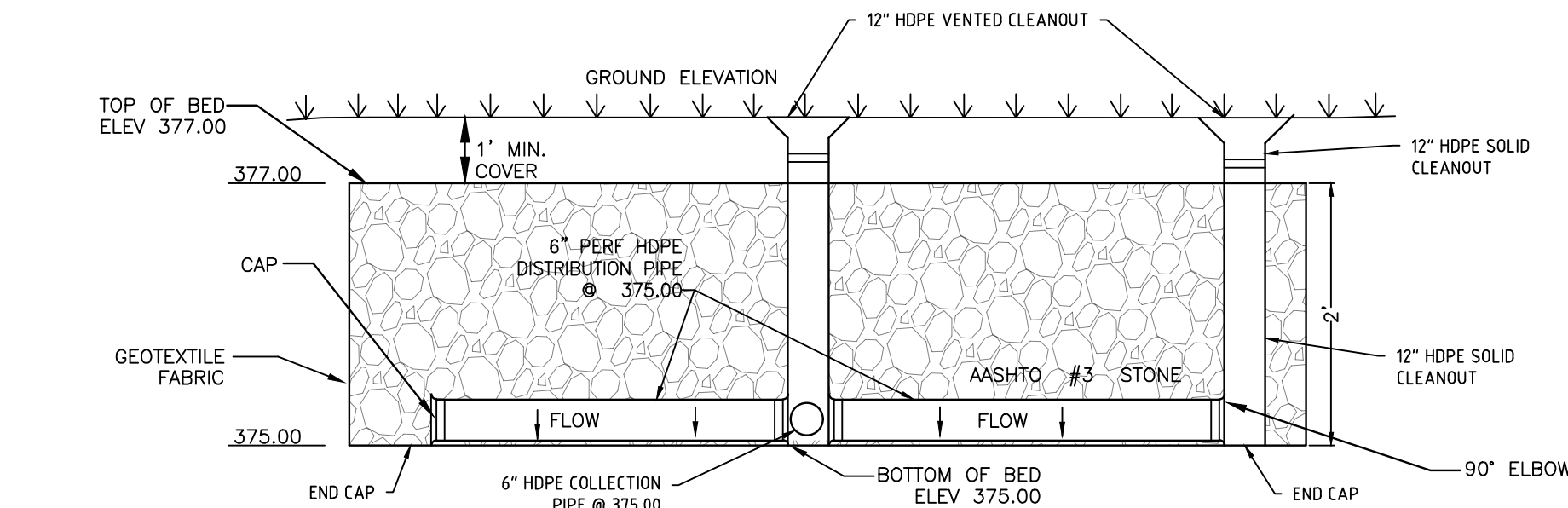
30'x40'x2.0' STONEBED PLAN VIEW

NTS



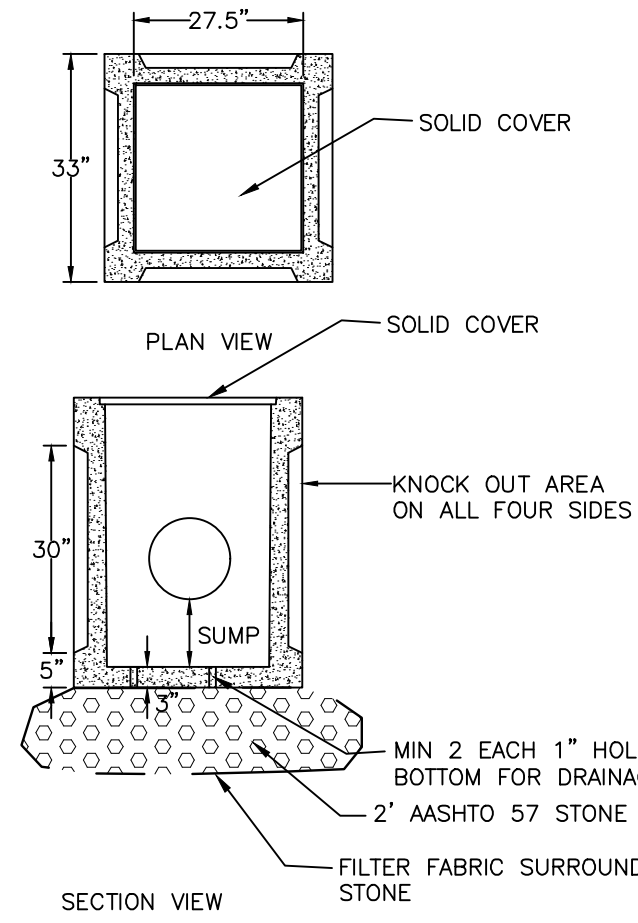
30'x40'x2.0' STONEBED DISTRIBUTION PIPE SECTION

N.T.S.



30'x40'x2' STONEBED COLLECTION PIPE SECTION

N.T.S.



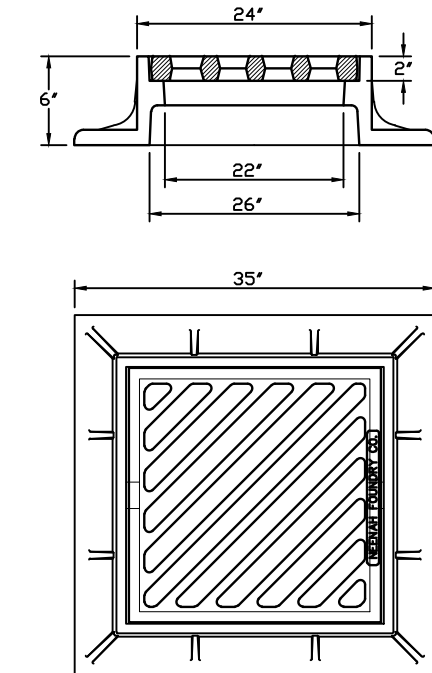
NOTE:

1. PROVIDE MIN. 1" SUMP IN ALL INLETS
2. PROVIDE MIN. 3" SUMP IN ALL INLETS DIRECTLY CONNECTED TO SYSTEM

Manufactured by
MODERN CONCRETE SEPTIC TANK CO.
or other NPCA certified plant

2'X2' SUMP BOX DETAIL (NON TRAFFIC BEARING)

N.T.S.

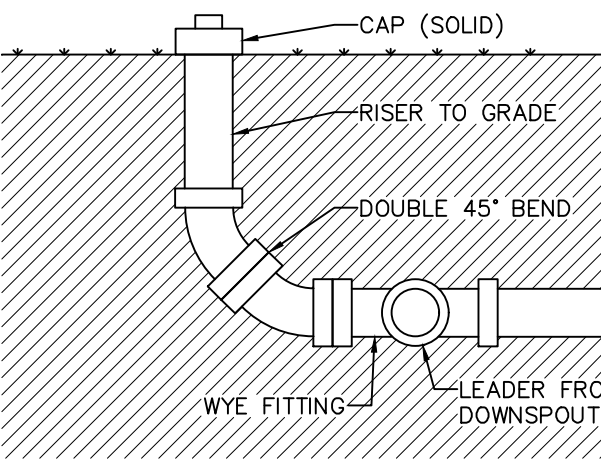


MATERIAL: CAST GRAY IRON ASTM A-48
CLASS 35B
FINISH: NOT PAINTED

R-3433
NEENAH
PAPER COVERED
1. OR APPROVED EQUAL

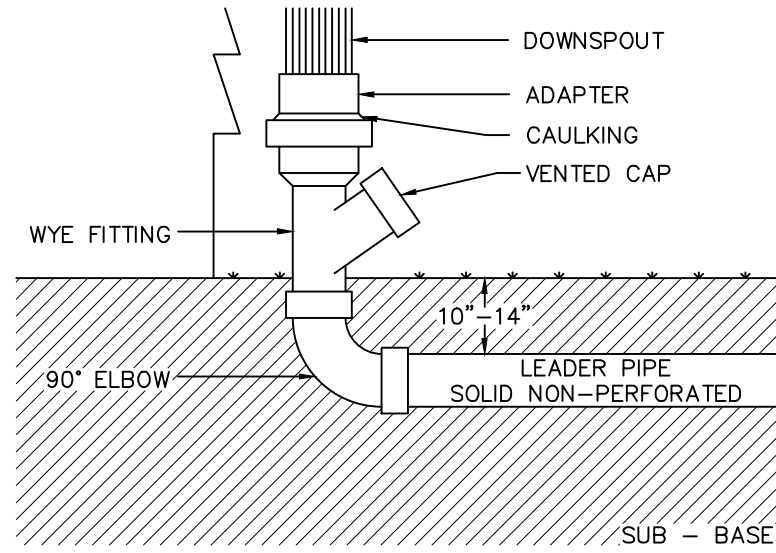
2'X2' INLET FRAME AND GRATE

N.T.S.



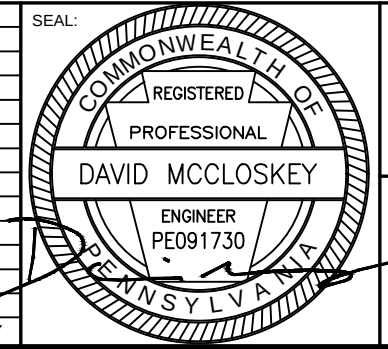
TERMINAL CLEANOUT (TYPICAL)

N.T.S.



DOWNSPOUT DETAIL

N.T.S.

 Dial 8-1-1 or 1-800-242-1776 not less than 3 business days nor more than 10 business days prior to the start of excavation. Coordinate your projects via Coordinate PA at www.paoncall.org Pennsylvania One Call System Serial Number 20252560148		PROJECT: 1257 ZEBLEY ROAD SUBDIVISION 1257 ZEBLEY ROAD GARNET VALLEY, PA 19060 BETHEL TOWNSHIP DELAWARE COUNTY PENNSYLVANIA PREPARED FOR: YLLKA GOCI 67 BISHOP DRIVE ASTON, PA 19014	PLAN TITLE: PRELIMINARY/FINAL LAND DEVELOPMENT PLAN SHEET TITLE: CONSTRUCTION DETAILS	DESIGNED DVM CHECKED (PM) RDJ DATE 10-25-2025 SCALE #####	PROJECT # 2025-569 SHEET # 7 OF 8

