



#### LOCATION MAP

GRAPHIC SCALE  
1" = 400'  
SCALE IN FEET

#### ACT 287 LIST OF UTILITIES

THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ACT 287 OF 1974 AS AMENDED BY ACT 187 OF 1996 FOR NOTIFICATION OF UTILITIES BEFORE EXCAVATION IN CONTRACT AREA. THE UNDERGROUND UTILITIES LOCATION CALL NUMBER IS 1-800-242-1776. SURVEYOR: 2025000511 BY TERRAVIZ GEOSPATIAL, INC.

DATE: OCTOBER 03, 2022

DESIGN CONTACT INFORMATION:

COMPANY: FIRST ENERGY PENELEC  
ADDRESS: 215 MAIN ST  
AKRON, OH. 44308  
CONTACT: CARA WARREN  
EMAIL: CARAWARREN@FIRSTENERGYCORP.COM

COMPANY: PPL ELECTRIC UTILITIES CORPORATION  
ADDRESS: 434 SUSQUEHANNA TRAIL  
NORTHUMBERLAND, PA. 17857  
CONTACT: DOUG HAUPP  
EMAIL: DLHAUP@PPLWEB.COM

COMPANY: COMCAST  
ADDRESS: 4601 SMITH STREET  
HARRISBURG, PA. 17109  
CONTACT: MICHAEL SWIEGARD  
EMAIL: MIKE\_SWIEGARD@CABLE.COMCAST.COM

COMPANY: UGI UTILITIES INC  
ADDRESS: 1301 AID DR  
MIDDLETON, PA. 17057  
CONTACT: STEPHEN BATEMAN  
EMAIL: SBATEMAN@UGI.COM

COMPANY: PENNSYLVANIA AMERICAN WATER  
ADDRESS: 852 WESLEY DR  
MECHANICSBURG, PA. 17055  
CONTACT: JEFF HORTON  
EMAIL: JEFF.HORTON@AMWATER.COM

COMPANY: VERIZON PENNSYLVANIA LLC  
ADDRESS: 1026 HAY ST  
PITTSBURGH, PA. 15221  
CONTACT: DEBORAH BARUM  
EMAIL: DEBORAH.D.BELIA@VERIZON.COM

COMPANY: LOWER ALLEN TOWNSHIP AUTHORITY  
ADDRESS: 120 LIMEKLN RD  
NEW CUMBERLAND, PA. 17070  
CONTACT: BRIAN KAUFMAN  
EMAIL: BKAUFMAN@LATWP.ORG

COMPANY: LOWER ALLEN TOWNSHIP  
ADDRESS: 2233 LIMEKLN RD  
CAMP HILL, PA. 17011  
CONTACT: BRYCE THOMPSON  
EMAIL: BTOMPSON@LATWP.ORG



#### Sheet List Table

Sheet Number	Sheet Title
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# PRELIMINARY / FINAL SUBDIVISION AND LAND DEVELOPMENT PLAN FOR KINDT PROPERTIES, LLC

1013 PRIMROSE AVENUE  
CAMP HILL, PA 17011

LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

#### PREPARED FOR:

KINDT PROPERTIES, LLC  
1111 PRIMROSE AVENUE  
CAMP HILL, PA 17011

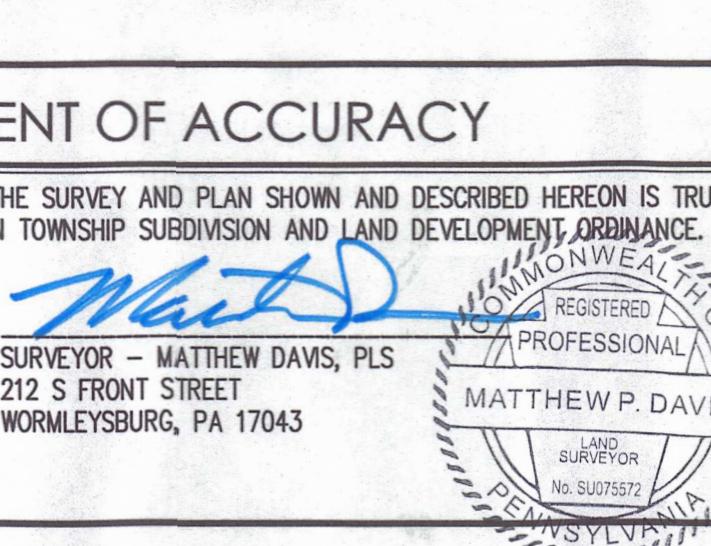
#### PREPARED BY:



212 South Front Street  
Wormleysburg, PA 17043  
adavis@hylandeng.com

#### DESIGN ENGINEER STORMWATER MANAGEMENT APPROVAL STATEMENT

*Adam Davis* ON THIS DATE, *June 23 2025*, HAVE  
REVIEWED AND HEREBY CERTIFY THAT THE DRAINAGE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE LOWER  
ALLEN TOWNSHIP ACT 167 STORMWATER MANAGEMENT ORDINANCE.



#### VARIANCES

THE FOLLOWING VARIANCE FROM THE LOWER ALLEN TOWNSHIP ZONING ORDINANCE HAS BEEN OBTAINED:  
SECTION 220-244-B.3.f - MINIMUM ACCESS DRIVE RADIUS  
FINAL ACTION APPROVED DATE  
8/16/2024

#### EXISTING FEATURES STATEMENT OF ACCURACY

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE AND  
CORRECT TO THE ACCURACY REQUIRED BY THE LOWER ALLEN TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

*June 23 2025*



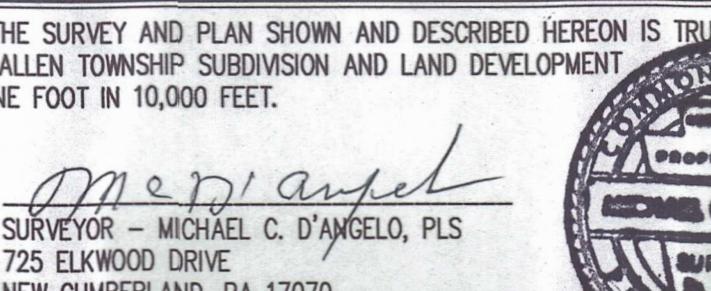
#### OWNER STORMWATER MANAGEMENT PERMANENT FIXTURES STATEMENT

*Barry Kindt* ON THIS DATE, *JUNE 16 2025*  
ACKNOWLEDGES THAT STORMWATER MANAGEMENT AND CONVEYANCE FACILITIES ARE PERMANENT FIXTURES AND MAY NOT BE  
MODIFIED, REMOVED, FILLED, LANDSCAPED, OR OTHERWISE ALTERED WITHOUT WRITTEN APPROVAL OF LOWER ALLEN TOWNSHIP.

#### BOUNDARY STATEMENT OF ACCURACY

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE SURVEY AND PLAN SHOWN AND DESCRIBED HEREON IS TRUE  
AND CORRECT TO THE ACCURACY REQUIRED BY THE LOWER ALLEN TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT  
ORDINANCE. THE ERROR OF CLOSURE NO GREATER THAN ONE FOOT IN 10,000 FEET.

*July 20 2025*



#### LOWER ALLEN TOWNSHIP BOARD OF COMMISSIONERS

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

APPROVED THIS *14th* DAY OF *April* 2025

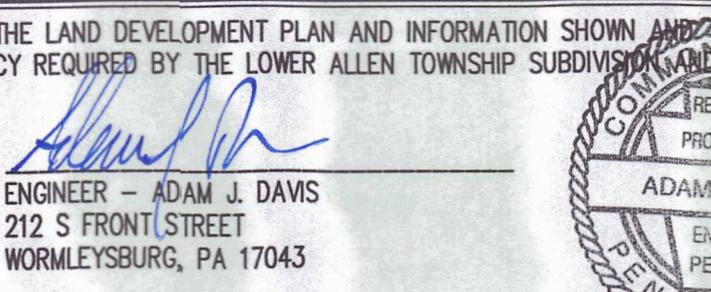
CONDITIONS OF APPROVAL COMPLETED THIS *30th* DAY OF *June* 2025

*Jennifer M. Davis* *R. J. Davis*  
PRESIDENT SECRETARY *Rebecca L. Davis*

#### STATEMENT OF ACCURACY

I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE, THE LAND DEVELOPMENT PLAN AND INFORMATION SHOWN AND  
DESCRIBED HEREON IS TRUE AND CORRECT TO THE ACCURACY REQUIRED BY THE LOWER ALLEN TOWNSHIP SUBDIVISION  
AND LAND DEVELOPMENT ORDINANCE.

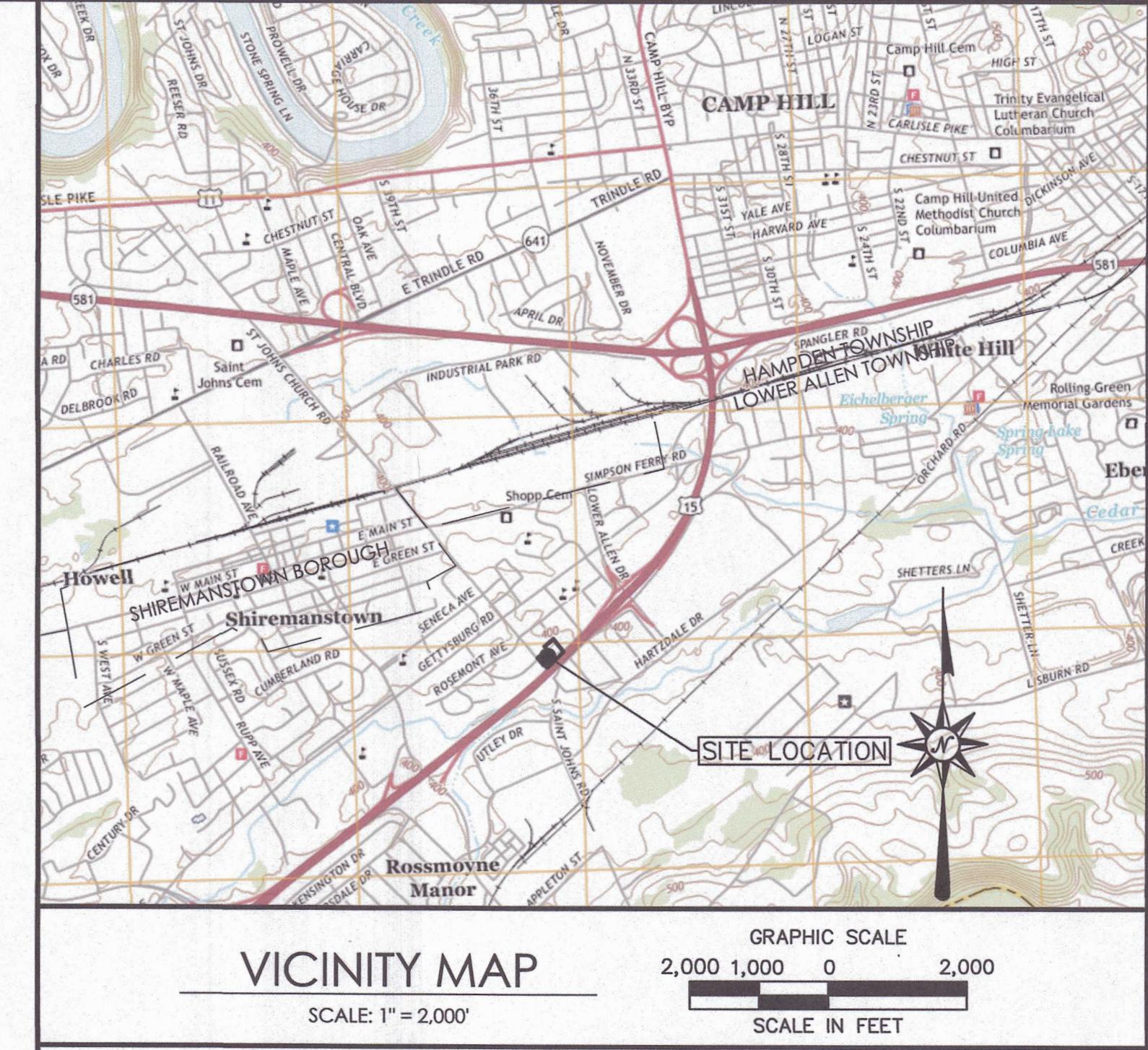
*June 23 2025*



#### WAIVERS

THE FOLLOWING WAIVERS FROM THE LOWER ALLEN TOWNSHIP SUBDIVISION AND LAND DEVELOPMENT ORDINANCE HAVE BEEN APPLIED  
FOR:

1. SECTION 192-30.A	- PRELIMINARY PLAN APPLICATION	FINAL ACTION	DATE
2. SECTION 192-57-8	- CURBING ALONG PRIMROSE AVE.	APPROVED	4/14/2025
3. SECTION 192-57-9	- SIDEWALKS ALONG PRIMROSE AVE. & ST. JOHNS ROAD	APPROVED	4/14/2025
4. SECTION 192-57.B.2.h.2	- ADDITIONAL RIGHT-OF-WAY AND CARTWAY WIDTH FOR PRIMROSE AVE. AND ST. JOHNS ROAD	APPROVED	4/14/2025
		APPROVED	4/14/2025



#### VICINITY MAP

SCALE: 1" = 2,000'  
2,000 1,000 0 2,000

SCALE IN FEET

#### STATEMENT OF OWNERSHIP, ACKNOWLEDGEMENT OF PLAN, AND OFFER OF DEDICATION

STATE OF *PENNSYLVANIA*  
COUNTY OF *CUMBERLAND*

ON THIS, THE *16* DAY OF *JULY*, 2025, BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED  
KNOWN TO ME (OR SATISFACTORILY PROVEN) TO BE THE PERSON(S) WHOSE  
NAME(S) IS/ARE SUBSCRIBED TO THE WITHIN INSTRUMENT, AND ACKNOWLEDGED THAT *Barry Kindt*  
EXECUTED THE SAME FOR THE PURPOSES THEREIN CONTAINED.

IN WITNESS WHEREOF, I HEREBUNTO SET MY HAND AND OFFICIAL SEAL.

*Barry Kindt*  
SIGNATURE  
PRESIDENT  
TITLE

Commonwealth of Pennsylvania - Notary Seal

ELIZABETH GABLE - Notary Public

Cumberland County

My Commission Expires December 6, 2027

Commission Number 144116

#### LOWER ALLEN TOWNSHIP PLANNING COMMISSION REVIEW STATEMENT

AT A MEETING ON \_\_\_\_\_, 20\_\_\_\_, THE LOWER ALLEN TOWNSHIP PLANNING COMMISSION REVIEW THIS PLAN.

TOWNSHIP OF LOWER ALLEN  
PLANNING COMMISSION

ATTEST

LOWER ALLEN TOWNSHIP SECRETARY

CHAIRMAN

#### LOWER ALLEN TOWNSHIP ENGINEER REVIEW STATEMENT

REVIEWED ON \_\_\_\_\_, 20\_\_\_\_, BY TOWNSHIP ENGINEER.

TOWNSHIP ENGINEER

#### CUMBERLAND COUNTY PLANNING DEPARTMENT REVIEW STATEMENT

REVIEWED THIS *14* DAY OF *JULY*, 2025 BY THE CUMBERLAND COUNTY  
PLANNING DEPARTMENT.

*K. M.* DIRECTOR OF PLANNING

#### RECORDER OF DEEDS CERTIFICATE

RECORDED IN THE CUMBERLAND COUNTY COURTHOUSE

RECORDED ON THIS *18th* DAY OF *July*, 2025

INSTRUMENT NO. *2025144168*

DEVELOPER/ APPLICANT/ OWNER:  
KINDT PROPERTIES, LLC  
1111 PRIMROSE AVENUE  
CAMP HILL, PA 17011  
KINDT@SECCOINC.COM

#### DEVELOPMENT SCHEDULE

THE COMMENCEMENT OF CONSTRUCTION IS EXPECTED  
TO BE DURING THE SPRING OF 2025 AND CONCLUDE  
IN THE SUMMER OF 2025.

#### DATES

ISSUE DATE: MARCH 06, 2024

REVISIONS: JANUARY 21, 2025

MARCH 4, 2025

#### PLAN PURPOSE

THE PURPOSE OF THIS PLAN IS TO CONSOLIDATE  
THREE PARCELS INTO ONE AND PROPOSE GRADING  
AND STORMWATER IMPROVEMENTS.

## GENERAL NOTES

- ALL CONSTRUCTION SHALL COMPLY WITH THE MUNICIPAL STANDARDS AND SPECIFICATIONS, COUNTY STANDARDS AND SPECIFICATIONS, PENNSYLVANIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, 2010 ADA STANDARDS, AND STATE BUILDING CODE IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
- REFER TO OTHER PLANS BY OTHER DISCIPLINES, DETAILS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE AND BUILDING CONDITIONS IN THE FIELD AND CONTACT THE CIVIL ENGINEER AND ARCHITECT IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS, SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO BIDDING.
- DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- THE CONTRACTOR SHALL ADOBE BY ALL OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORD DRAWINGS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES AND STORMWATER SYSTEM) TO THE OWNER AT THE END OF CONSTRUCTION.
- THE ARCHITECT OR ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOBSITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION, TRENCHING, AND TRENCH PROTECTION REQUIREMENTS.
- INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL OR COUNTY OR STATE RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT PA PENNSYLVANIA 811 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 242-1770 OR AT 811 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS. THE CONTRACTOR SHALL EMPLOY THE USE OF A UTILITY LOCATING COMPANY TO PROVIDE SURFACE MARKING ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROPOSED UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS.
- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN OVER SCALED DIMENSIONS.
- IF PLANS AND OR SPECIFICATIONS ARE IN CONFLICT, THE MOST COSTLY SHALL APPLY.
- ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN COMPLETE DRAWING PLAN SETS FOR BIDDING AND CONSTRUCTION. PLAN SETS OR PLAN SET ELECTRONIC POSTINGS SHALL NOT BE DISASSEMBLED INTO PARTIAL PLAN SETS FOR USE BY CONTRACTORS AND SUBCONTRACTORS OF INDIVIDUAL TRADES. IT SHALL BE THE CONTRACTOR'S AND SUBCONTRACTOR'S RESPONSIBILITY TO OBTAIN COMPLETE PLAN SETS OR COMPLETE PLAN SET ELECTRONIC POSTINGS FOR USE IN BIDDING AND CONSTRUCTION.
- ALL NOTES AND DIMENSIONS DESIGNATED TYPICAL APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.
- CONTRACTOR(S) TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION OF SAME. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
- HYLAND ENGINEERING, INC. WILL PREPARE FINAL CONSTRUCTION DOCUMENTS SUITABLE FOR BIDDING AND CONSTRUCTION. PROGRESS SETS OF THESE DOCUMENTS ARE NOT SUITABLE FOR THOSE PURPOSES. IF CLIENT ELECTS TO SOLICIT BIDS OR ENTER INTO CONSTRUCTION CONTRACTS UTILIZING CONSTRUCTION DOCUMENTS THAT ARE NOT YET FINAL, CONSULTANT SHALL NOT BE RESPONSIBLE FOR ANY COSTS OR DELAY ARISING AS A RESULT.
- NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
- THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT AND OBTAIN FROM COUNTY AND MUNICIPAL SOURCES ALL CONSTRUCTION PERMITS, INCLUDING ANY STATE DOT PERMITS, SEWER AND WATER CONNECTION PERMITS, AND ROADWAY CONSTRUCTION PERMITS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS PER PLANS AND SPECIFICATIONS TO THE OWNER AND CIVIL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF THREE (3) WORKING DAYS FOR REVIEW.
- THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE SEDIMENT AND EROSION CONTROL PLAN.
- SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING AS APPLICABLE UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
- THE CONTRACT LIMIT IS THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, SWALE, PAVEMENT MARKINGS, OR SIGNAGE DISTURBED DURING DEMOLITION AND/OR CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE CIVIL ENGINEER, AND TO THE SATISFACTION OF THE OWNER AND MUNICIPALITY.
- EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "EXISTING CONDITIONS PLAN" SCALE 1" = 20', DATED SEPTEMBER 21, 2021, BY MICHAEL C. D'ANGELO, P.L.S.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, CIVIL ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.
- THE SITE IS CURRENTLY SERVICED BY PUBLIC WATER.
- NO PART OF THE PROJECT PARCEL IS LOCATED WITHIN ANY FEMA DESIGNATED FLOOD HAZARD AREAS.
- THERE ARE NO WETLANDS LOCATED ON THE SITE.
- CONSTRUCTION OCCURRING ON THIS SITE SHALL COMPLY WITH NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS, AND CHAPTER 16 OF NFPA 1 UNIFORM FIRE CODE.
- SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND/OR DEMOLITION PLAN SHALL BE INSTALLED BY THE DEMOLITION CONTRACTOR PRIOR TO START OF DEMOLITION AND CLEARING AND GRUBBING OPERATIONS.
- REMOVE AND DISPOSE OF ANY SIDEWALKS, FENCES, STAIRS, WALLS, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED OFF SITE LANDFILL, BY AN APPROVED HAULER. HAULER SHALL COMPLY WITH ALL REGULATORY REQUIREMENTS.
- ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL ABATEMENT CONTRACTOR.
- THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, AND OR PROPERTY CORNERS, ETC. SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- THE DEMOLITION CONTRACTOR SHALL STABILIZE THE SITE AND KEEP EROSION CONTROL MEASURES IN PLACE UNTIL THE COMPLETION OF HIS WORK OR UNTIL THE COMMENCEMENT OF WORK BY THE SITE CONTRACTOR, WHICHEVER OCCURS FIRST, AS REQUIRED OR DEMANDED NECESSARY BY THE ENGINEER OR OWNER'S REPRESENTATIVE. THE SITE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF EXISTING EROSION AND SEDIMENTATION CONTROLS AND FOR INSTALLATION OF ANY NEW SEDIMENT AND EROSION CONTROLS AS PER THE SEDIMENT AND EROSION CONTROL PLAN, AT THAT TIME.
- THE CONTRACTOR SHALL PUMP OUT BUILDING FUEL AND WASTE OIL TANKS (IF ANY ARE ENCOUNTERED) AND REMOVE FUEL TO AN APPROVED DISPOSAL AREA BY A LICENSED WASTE OIL HANDLING CONTRACTOR IN STRICT ACCORDANCE WITH STATE REQUIREMENTS.
- IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT.
- NO WORK ON THIS SITE SHALL BE INITIATED BY THE CONTRACTOR UNTIL A PRE-CONSTRUCTION MEETING WITH OWNER AND THE CIVIL ENGINEER IS PERFORMED. THE CONTRACTOR SHOULD BE AWARE OF ANY SITE INFORMATION AVAILABLE SUCH AS GEOTECHNICAL AND ENVIRONMENTAL REPORTS. THE CONTRACTOR SHALL HAVE MARK OUTS OF EXISTING UTILITIES COMPLETED PRIOR TO MEETING.
- THE CONTRACTOR SHALL NOT COMMENCE DEMOLITION OR UTILITY DISCONNECTIONS UNTIL AUTHORIZED TO DO SO BY THE OWNER.
- THE CONTRACTOR OR DEMOLITION CONTRACTOR SHALL INSTALL TEMPORARY SHEETING OR SHORING AS NECESSARY TO PROTECT EXISTING AND NEW BUILDINGS, STRUCTURES AND UTILITIES DURING CONSTRUCTION AND DEMOLITION. SHEETING OR SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, LICENSED IN THIS STATE AND EVIDENCE OF SUCH SUBMITTED TO THE OWNER PRIOR TO INSTALLATION.
- THE EXISTING BUILDING AND PARKING AREA AND DRIVEWAYS SHALL REMAIN OPEN FOR NORMAL BUSINESS OPERATIONS UNTIL COMPLETION AND OCCUPATION OF THE NEW BUILDING.
- THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO SEDIMENT AND EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND EROSION CONTROL NOTES.
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE IN FINAL LANDSCAPING.
- THE CONTRACTOR SHALL COMPACT FILL IN LIFT THICKNESS PER THE GEOTECHNICAL REPORT UNDER ALL PARKING, BUILDING, DRIVE, AND STRUCTURE AREAS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
- UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE OWNER/GEOTECHNICAL ENGINEER, AFTER SUBGRADE IS ROUGH GRADED.
- VERTICAL DATUM IS NAVD 88.
- CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE COUNTY CONSERVATION DISTRICT AGENT PRIOR TO THE START OF WORK ON THE SITE.
- ALL SITE WORK, MATERIALS OF CONSTRUCTION, AND CONSTRUCTION METHODS FOR EARTHWORK AND STORM DRAINAGE WORK SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS MANUAL. OTHERWISE, THIS WORK SHALL CONFORM TO THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND PROJECT GEOTECHNICAL REPORT IF THERE IS NO PROJECT SPECIFICATIONS MANUAL. ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE ABOVE STATED APPLICABLE SPECIFICATIONS, AND/OR PROJECT GEOTECHNICAL REPORT, AND SHALL BE PLACED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN LIFT THICKNESSES PER THE PROJECT GEOTECHNICAL REPORT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 AT MOISTURE CONTENT INDICATED IN PROJECT GEOTECHNICAL REPORT.
- ALL DISTURBANCE INCURRED TO MUNICIPAL, COUNTY, AND COMMONWEALTH PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE MUNICIPALITY, COUNTY AND COMMONWEALTH AS APPLICABLE FOR THE LOCATION OF THE WORK.
- ALL CONSTRUCTION WITHIN A DOT RIGHT OF WAY SHALL COMPLY WITH ALL DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.

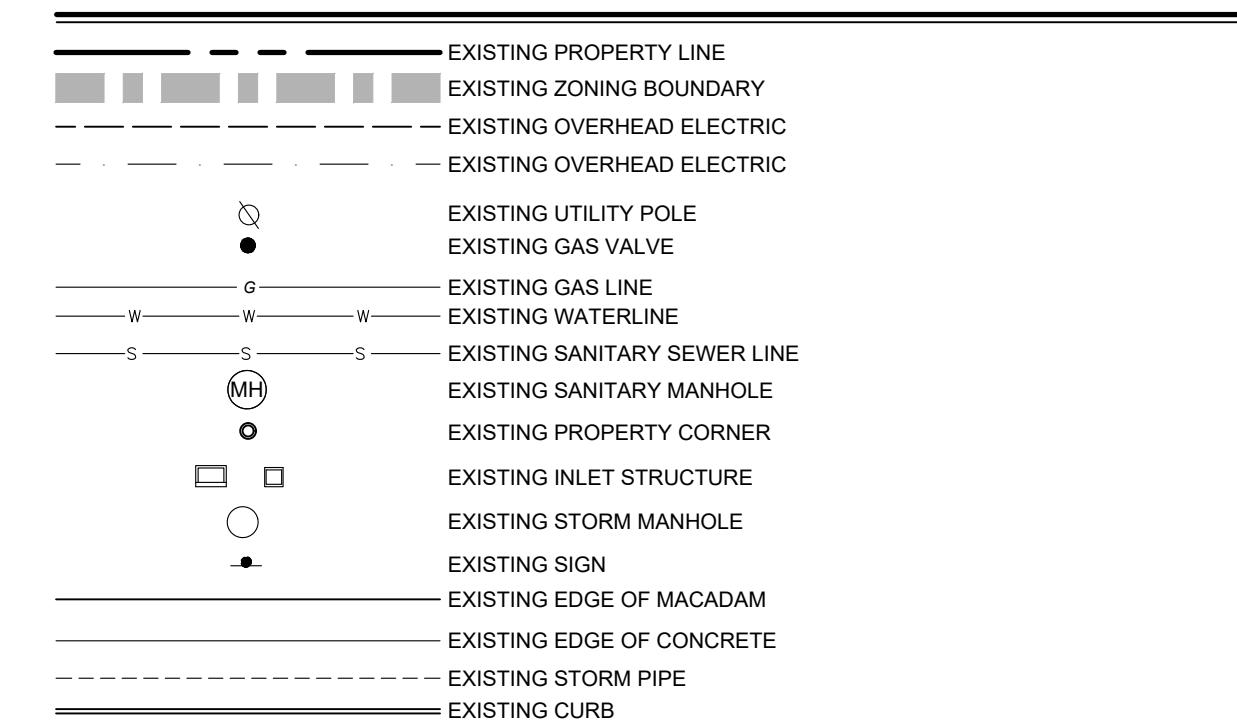
## ZONING INFORMATION

LOCATION: LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY			
ZONE: MIXED USE NEIGHBORHOOD			
USE: SINGLE FAMILY DETACHED DWELLING, PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES* (PERMITTED USE) NAICS NO. 54			
ITEM #	ITEM	REQUIREMENTS	EXISTING
1	MINIMUM LOT AREA	NONE REQUIRED	0.247 ACRES
2	MINIMUM LOT WIDTH	> 50 FEET	65 FEET
3	MINIMUM FRONT SETBACK	30 FEET	30 FEET
4	MINIMUM SIDE SETBACK	15 FEET	15 FEET
5	MINIMUM REAR SETBACK	25 FEET	25 FEET
6	MAXIMUM BUILDING HEIGHT	35 FEET	N/A
7	MAXIMUM IMPERVIOUS COVERAGE	70 PERCENT	3,552 sf/ 63 PERCENT

## ZONING INFORMATION

LOCATION: LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY			
ZONE: GENERAL COMMERCIAL			
USE: SINGLE FAMILY DETACHED DWELLING, PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES* (PERMITTED USE) NAICS NO. 54			
ITEM #	ITEM	REQUIREMENTS	EXISTING
1	MINIMUM LOT AREA	NONE REQUIRED	1.451 ACRES
2	MINIMUM LOT WIDTH	> 50 FEET	171 FEET
3	MINIMUM FRONT SETBACK	30 FEET	30 FEET
4	MINIMUM SIDE SETBACK	10 FEET	10 FEET
5	MINIMUM REAR SETBACK	35 FEET	35 FEET
6	MAXIMUM BUILDING HEIGHT	75 FEET	N/A
7	MAXIMUM IMPERVIOUS COVERAGE	70 PERCENT	42,786 / 67 PERCENT

## EXISTING CONDITIONS PLAN LEGEND



**HYLAND**  **Engineering**

212 South Front Street  
Wormleysburg, PA 17043  
(717) 723-3326

KINDT PROPERTIES, LLC  
KINDT PROPERTIES  
1013 SAINT JOHNS ROAD  
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA

Description / Reason	Date	Comments
REVISED PER TOWNSHIP COMMENTS	01/21/2025	
REVISED PER TOWNSHIP COMMENTS	03/04/2025	

signer K.R.  
after K.R.  
viewer A.J.  
ale 1"=2  
ject No. 2205

Sheet Title  
**EXISTING  
CONDITIONS &  
DEMOLITION  
PLAN**

LAN

Street Number

EV 1

EX-1

# EX-1

3 OF 10

## ZONING INFORMATION

ITEM #	ITEM	REQUIREMENTS (CG ZONE)	REQUIREMENTS (MUN ZONE)	PROPOSED
1	MINIMUM LOT AREA	NONE REQUIRED	NONE REQUIRED	1.660 ACRES
2	MINIMUM LOT WIDTH	> 50 FEET	> 50 FEET	195 FEET
3	MINIMUM FRONT SETBACK	30 FEET	30 FEET	< 30 FEET**
4	MINIMUM SIDE SETBACK	10 FEET	15 FEET	< 10 FEET***
5	MINIMUM REAR SETBACK	35 FEET	25 FEET	25 FEET
6	MAXIMUM BUILDING HEIGHT	75 FEET	35 FEET	15 FEET****
7	MAXIMUM IMPERVIOUS COVERAGE	70 PERCENT	70 PERCENT	46,338 sf / 67 PERCENT
8	RESIDENTIAL DENSITY UNIT	---	10 UNITS PER GROSS ACRE	3 UNITS TO 1.55 ACRES

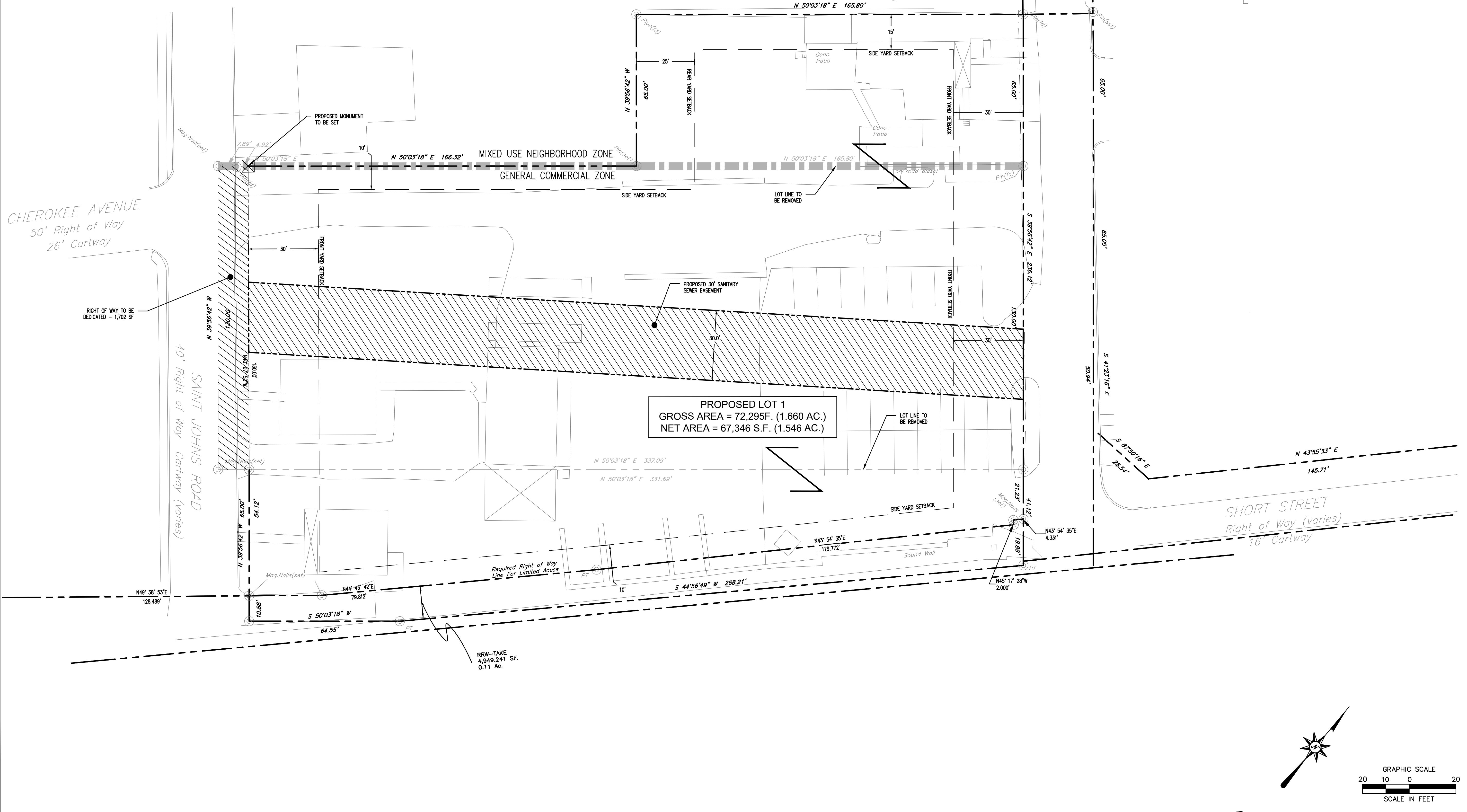
- \* THE PROPOSED PRINCIPAL USE OF THE STRUCTURE IS ACCESSORY STORAGE AND WORKSHOP OF THE ADJACENT BUSINESS
- \*\* EXISTING NONCONFORMAL - DWELLINGS FRONTING SAINT JOHNS ROAD
- \*\*\* EXISTING NONCONFORMAL - DWELLING FRONTING PRIMROSE AVENUE
- \*\*\*\* EXISTING BUILDING HEIGHTS FOR 1013 & 1015 ST. JOHNS ROAD ARE 20 FEET & 15 FEET, RESPECTIVELY. EXISTING BUILDING HEIGHT FOR 1106 PRIMROSE AVE. IS 15 FEET

## EXISTING NON-CONFORMITIES

1. 220-56 - SINGLE-FAMILY DETACHED DWELLING USE IN C-2 DISTRICT
2. 220-212.D - INTERIOR BUILDING SEPARATION REQUIREMENTS FOR EXISTING GARAGE
3. 220-61-A.1 - DWELLINGS FRONTING ST. JOHNS ROAD
4. 220-33-A - DWELLINGS FRONTING PRIMROSE AVENUE
5. 220-242.L.1.c - PARKING SPACES WITHIN PUBLIC RIGHT-OF-WAY
6. 220-35.1.B, 220-193, 220-242.J - LIGHTING WITHIN EXISTING PARKING LOT
7. 220-35.1.C, 220-201.A.4 - SCREENING BETWEEN RESIDENTIAL AND NON-RESIDENTIAL USE

## LOT CONSOLIDATION PLAN LEGEND

PROPERTY LINE
RIGHT-OF-WAY LINE
BUILDING SETBACK LINE



## ZONING INFORMATION

LOCATION: LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY			
ZONE: C-2 GENERAL COMMERCIAL (GC) & MIXED-USE NEIGHBORHOOD (MUN)			
USE: SINGLE-FAMILY DETACHED DWELLING, PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES* (PERMITTED USE) NAICS No. 54			
ITEM #	ITEM	REQUIREMENTS (GC ZONE)	REQUIREMENTS (MUN ZONE)
1	MINIMUM LOT AREA	NONE REQUIRED	NONE REQUIRED
2	MINIMUM LOT WIDTH	> 50 FEET	> 50 FEET
3	MINIMUM FRONT SETBACK	30 FEET	30 FEET
4	MINIMUM SIDE SETBACK	10 FEET	15 FEET
5	MINIMUM REAR SETBACK	35 FEET	25 FEET
6	MAXIMUM BUILDING HEIGHT	75 FEET	35 FEET
7	MAXIMUM IMPERVIOUS COVERAGE	70 PERCENT	70 PERCENT
8	RESIDENTIAL DENSITY UNIT	---	10 UNITS PER GROSS ACRE
			3 UNITS PER 1.55 ACRES

\* THE PROPOSED PRINCIPAL USE OF THE STRUCTURE IS ACCESSORY STORAGE AND WORKSHOP OF THE ADJACENT BUSINESS  
\*\* EXISTING NONCONFORMITY - DWELLINGS FRONTING SAINT JOHNS ROAD  
\*\*\* EXISTING NONCONFORMITY - DWELLING FRONTING PRIMROSE AVENUE

## NOTES

- ALL PROPOSED SIGNAGE ON THIS PLAN SHALL BE IN ACCORDANCE WITH ARTICLE XXV OF THE LOWER ALLEN TOWNSHIP ZONING ORDINANCE.

## PARKING INFORMATION

ITEM #	ITEM	REQUIREMENTS	PROPOSED
1	MINIMUM LOT AREA	NONE REQUIRED	1.660 ACRES
2	MINIMUM LOT WIDTH	> 50 FEET	> 50 FEET
3	MINIMUM FRONT SETBACK	30 FEET	30 FEET
4	MINIMUM SIDE SETBACK	10 FEET	15 FEET
5	MINIMUM REAR SETBACK	35 FEET	25 FEET
6	MAXIMUM BUILDING HEIGHT	75 FEET	35 FEET
7	MAXIMUM IMPERVIOUS COVERAGE	70 PERCENT	70 PERCENT
8	RESIDENTIAL DENSITY UNIT	---	3 UNITS PER 1.55 ACRES

\* AREA OF GREEN SPACE PROPOSED BETWEEN THE FACE OF THE PROPOSED STRUCTURE AND PRIMROSE AVE.

## LOT AREA CALCULATION

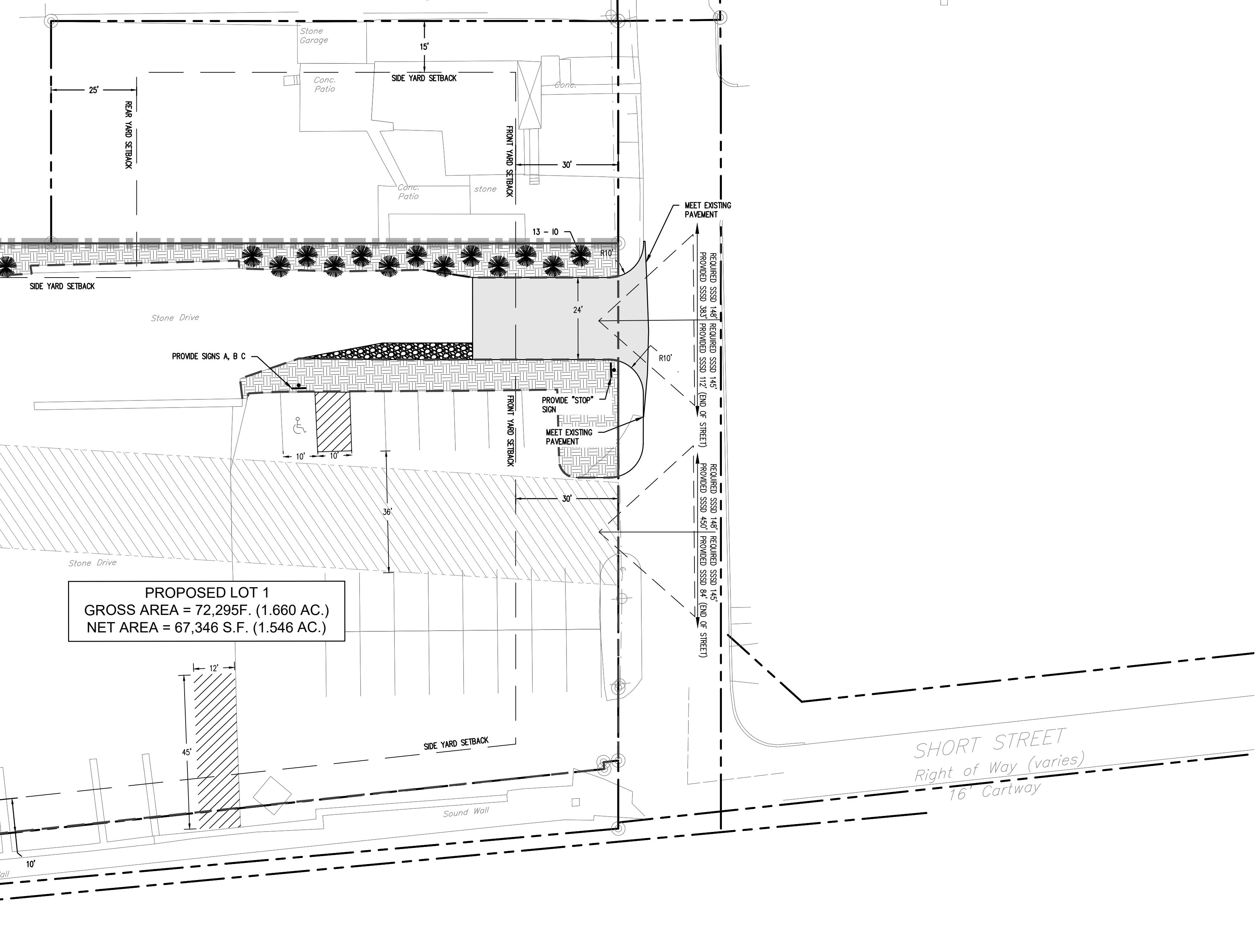
02422 LOT 102A 72,295 S.F.  
NET AREA: 67,346 S.F.  
AREA TO BE DEDICATED TO TOWNSHIP: 1,702 S.F.  
AREA WITHIN PENNDOT RIGHT-OF-WAY: 4,949 S.F.

## SIGN LEGEND

SIGN NO.	QUANTITY	PENNDOT NO. / SIZE
A	1	R7-B (RESERVED ADA PARKING) 12"x18"
B	1	R7-BF (ADA PARKING PENALTIES) 12"x18"
C	1	R7-BP (ADA VAN ACCESSIBLE) 12"x6"

## SITE PLAN LEGEND

PROPERTY LINE
BUILDING SETBACK LINE
PARKING SETBACK LINE
FRONT YARD LANDSCPED AREA
PROPOSED SANITARY SEWER EASEMENT

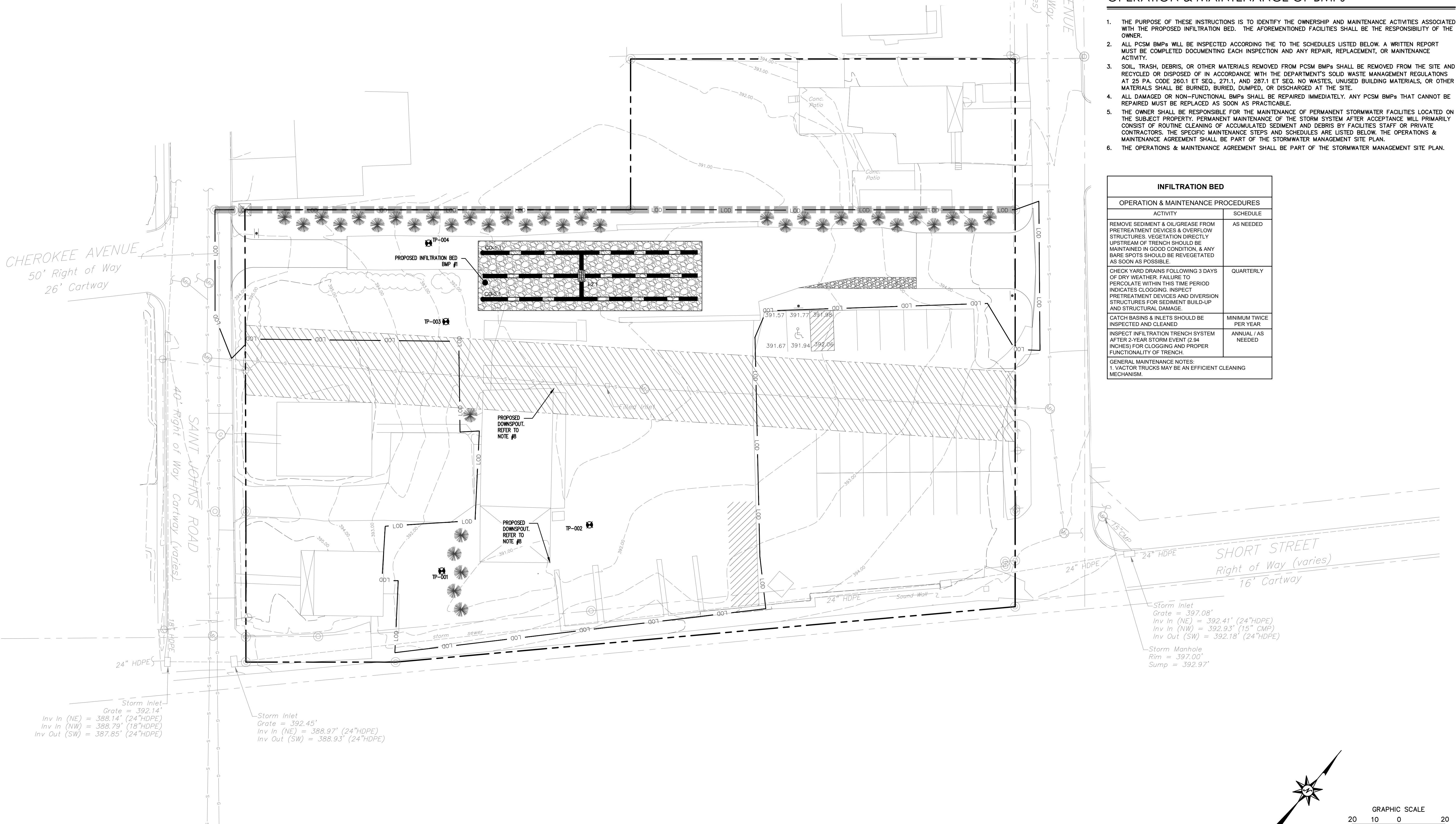


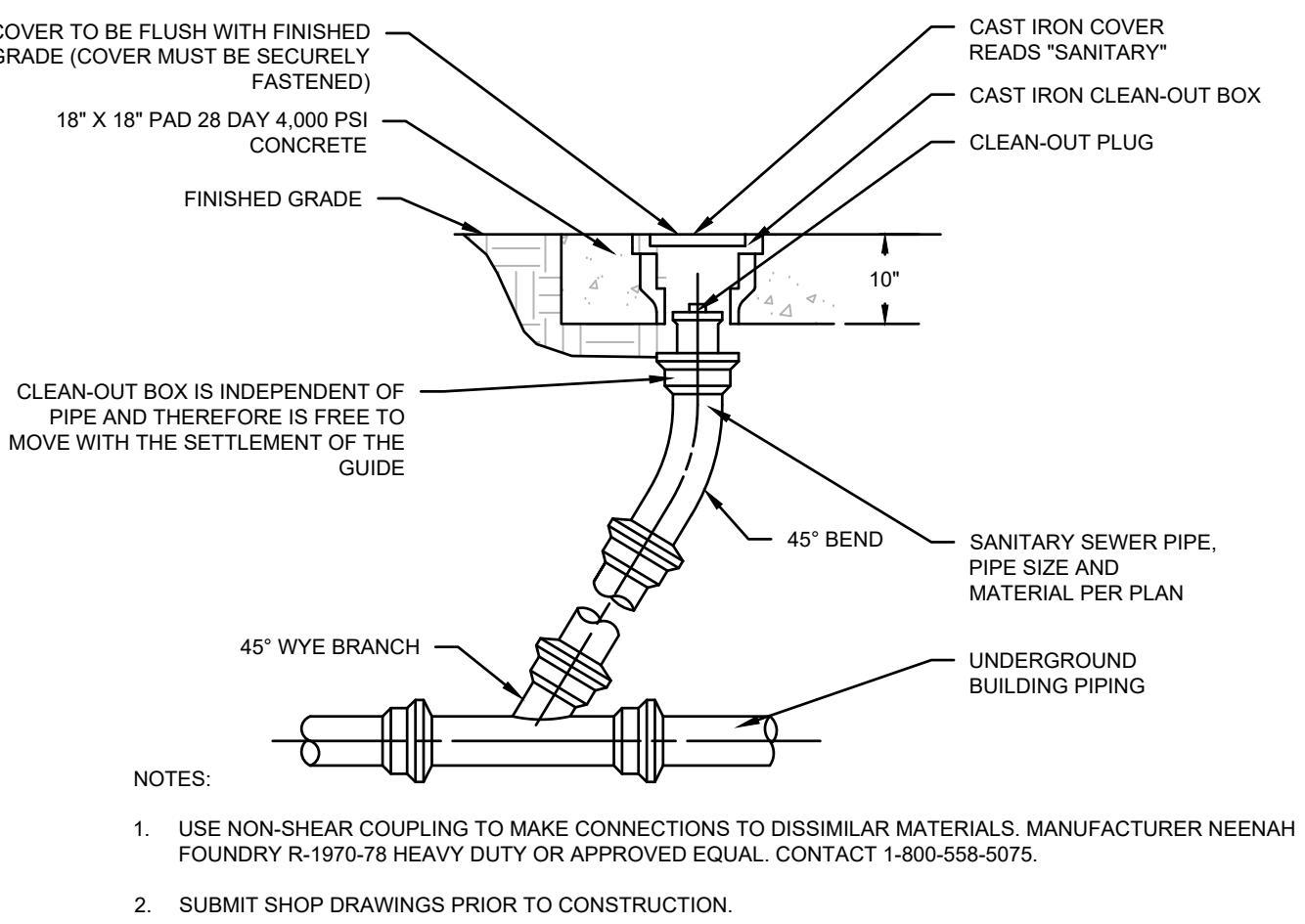
## Plant List

Symbol	Quant	Botanical Name	Common Name	Caliper	Height	Spread	Root	Notes
EVERGREEN	10	Ilex opaca	American Holly	2-2.5" cal	8'-10"	4'-5"	B/B	N/A

## NOTES

1. A STORMWATER CONSERVATION BLANKET EASEMENT SHALL BE PROVIDED FOR ALL PHYSICAL STORMWATER MANAGEMENT FACILITIES AND CONVEYANCE FACILITIES.
2. THE LANDOWNER HEREBY GRANTS PERMISSION TO THE MUNICIPALITY, ITS AUTHORIZED AGENTS, AND EMPLOYEES ACCESS TO ANY AND ALL STORMWATER MANAGEMENT CONSERVATION EASEMENTS ON THE PROPERTY DURING AND POST- CONSTRUCTION AND FOR INSPECTIONS.
3. NOTHING SHALL BE PLACED, STORED, ERECTED, CONSTRUCTED OVER, PLANTED, OR OTHERWISE LOCATED WITHIN AN EASEMENT OTHER THAN THE STORMWATER MANAGEMENT FACILITIES WITHIN THE EASEMENT.
4. STORMWATER MANAGEMENT CONSERVATION EASEMENTS FOR CONVEYANCE FACILITIES SHALL BE LOCATED AND OFFSET FROM THE CENTER OF THE RESPECTIVE CONVEYANCE FACILITY AS INSTALLED.
5. RECORD DRAWINGS OR AS-BUILT DRAWINGS SHALL BE PROVIDED FOR ALL STORMWATER MANAGEMENT FACILITIES PRIOR TO OCCUPANCY AND/OR THE RELEASE OF FINANCIAL SECURITY.
6. A COPY OF THIS STORMWATER PLAN SHALL BE ON-SITE AT ALL TIMES DURING THE DURATION OF REGULATED ACTIVITIES.
7. THE LANDOWNER ACKNOWLEDGES TO PAY ALL FEES AND EXPENSES INCURRED BY THIS LAND DEVELOPMENT PLAN TO THE TOWNSHIP, COUNTY AND ALL PARTIES INVOLVED IN THE IMPROVEMENTS.
8. STORMWATER FROM THE DOWNSPOTS SHALL BE DIRECTED TOWARDS THE PROPOSED INFILTRATION BED.

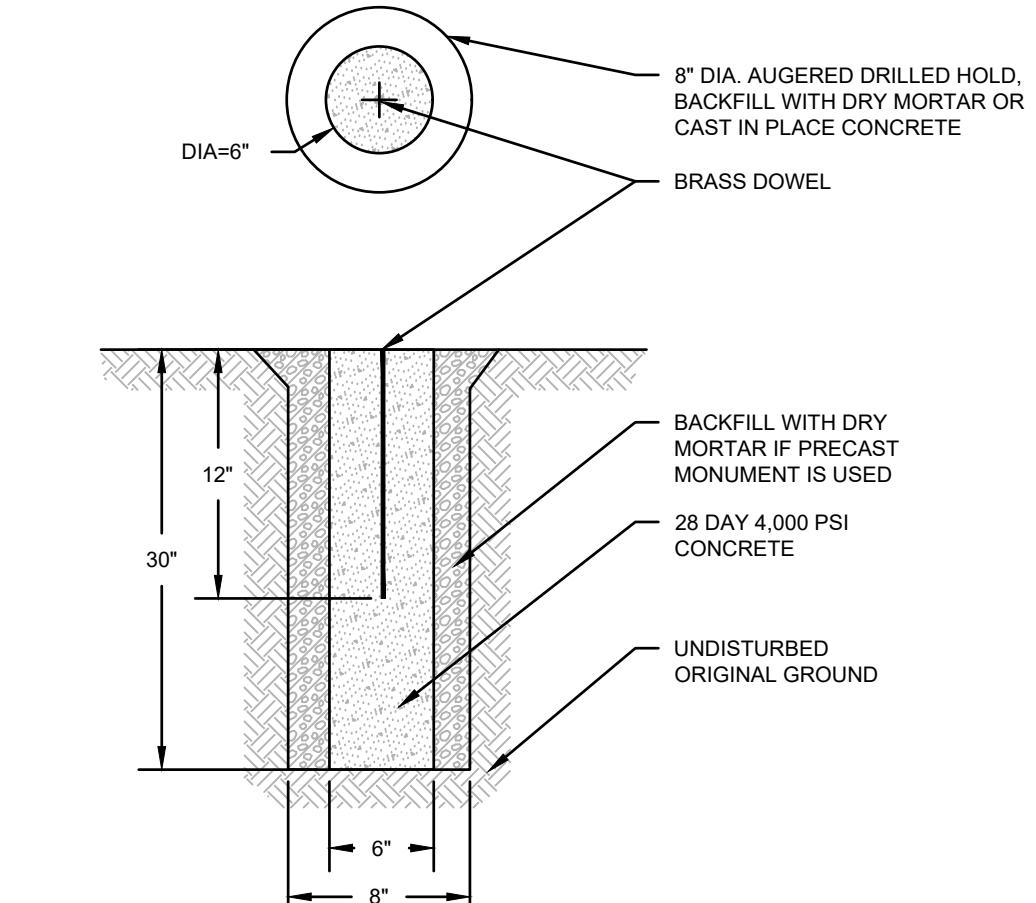
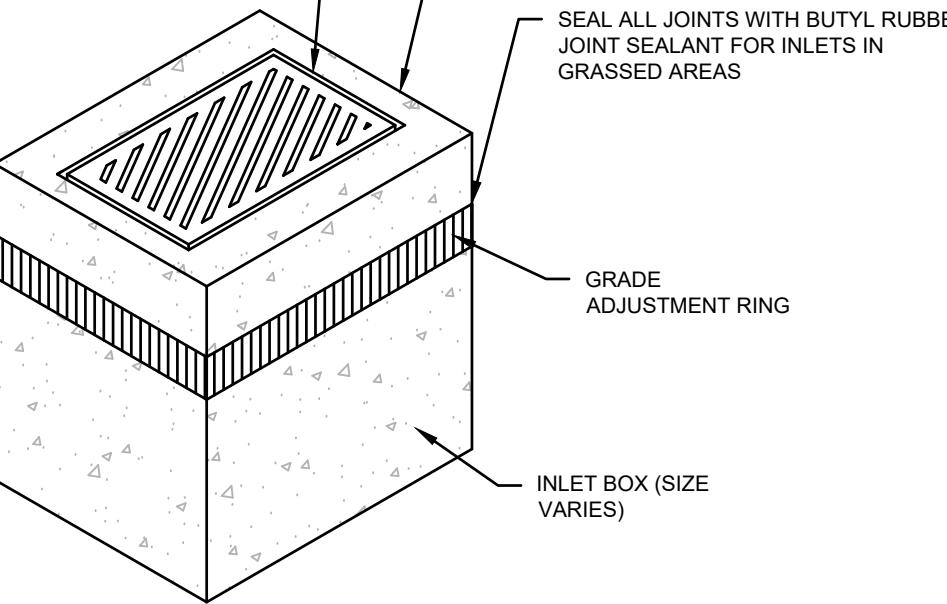
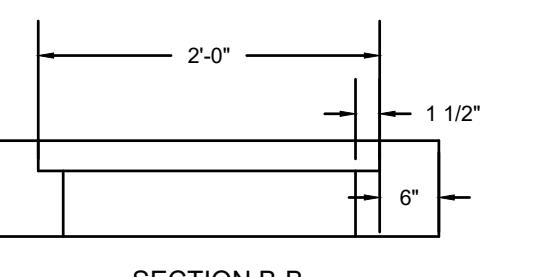
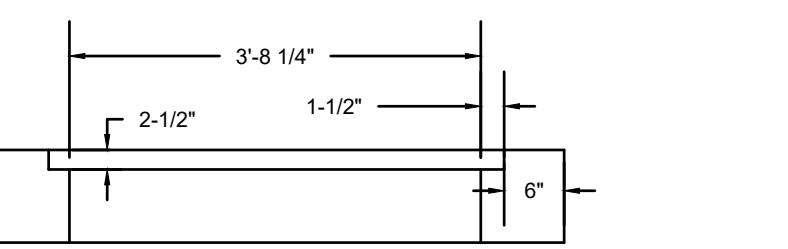




### CLEANOUT DETAIL

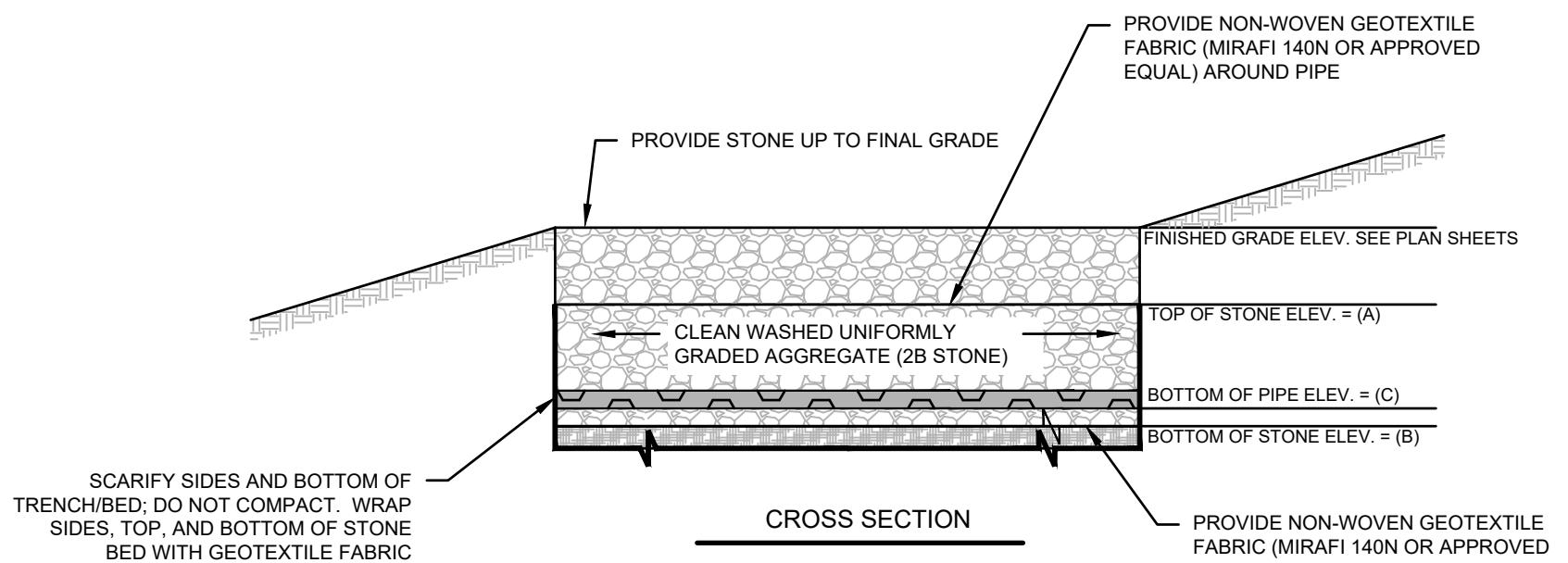
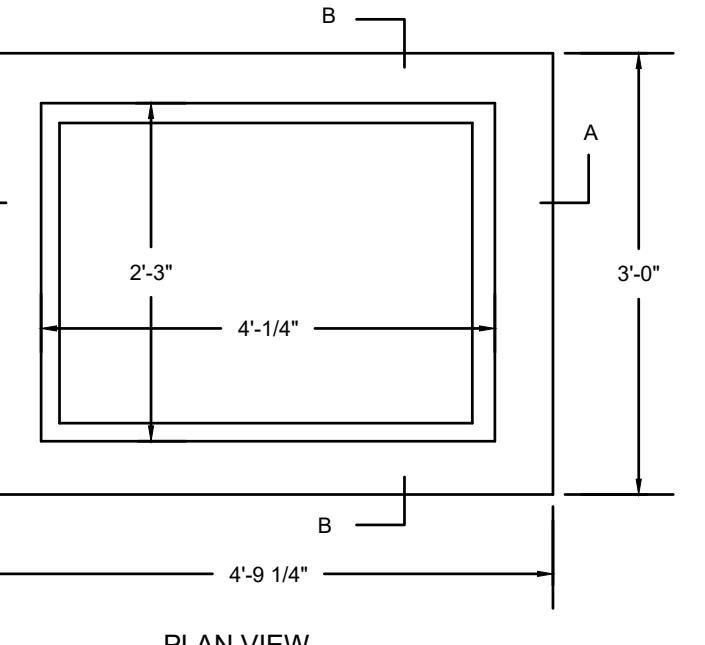
N.T.S

BMP #ID	BOTTOM OF STONE ELEV. (B)	PIPE ELEV. (C)
I	387.90	388.0000



### CONCRETE MONUMENT DETAIL

N.T.S

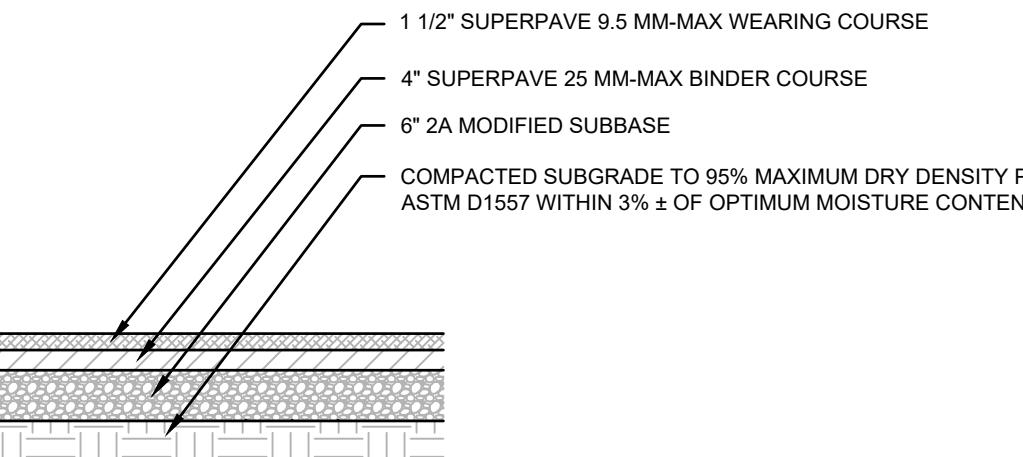
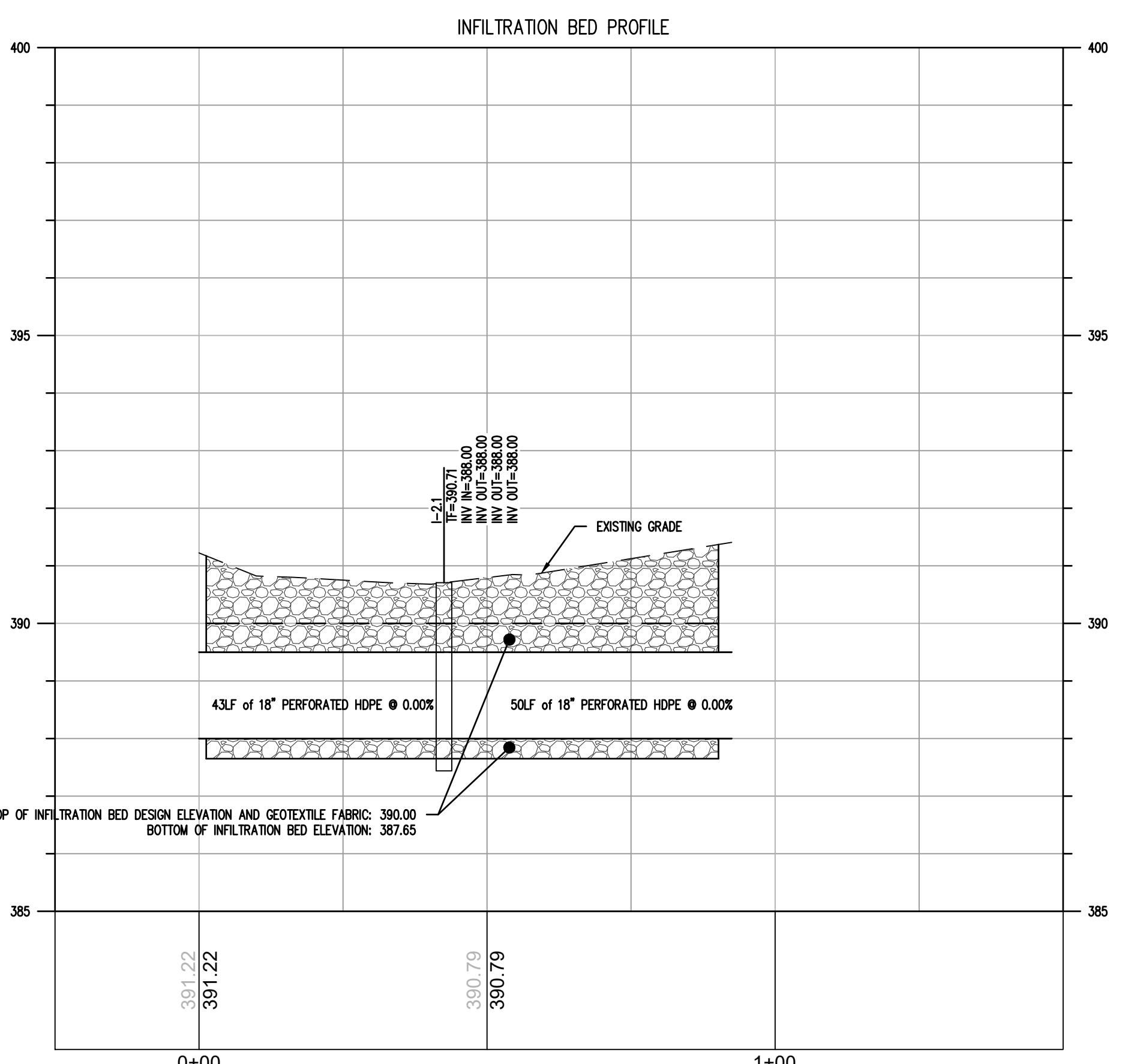


### INFILTRATION BED CROSS SECTION

N.T.S

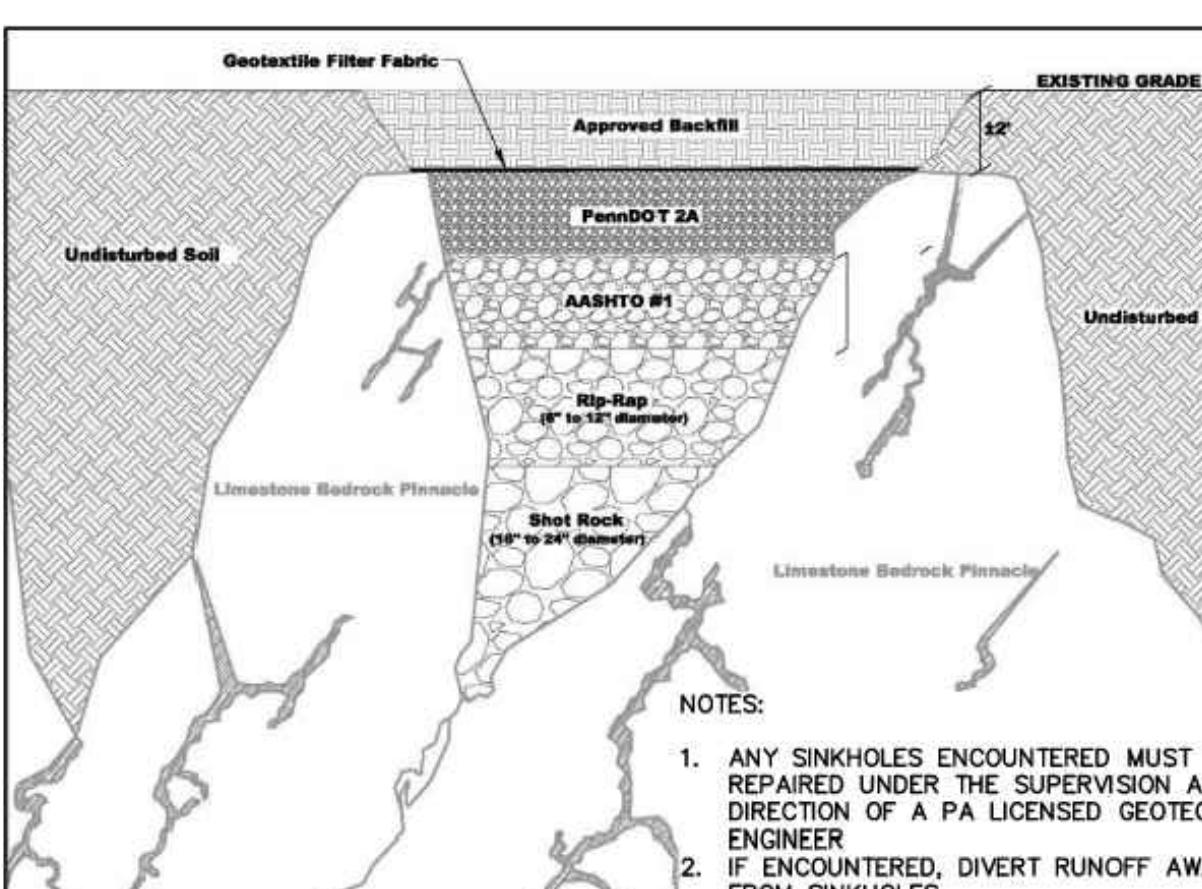
### TYPE "M" INLET

N.T.S


 NOTES:  
 1. INLET TO BE IN CONFORMANCE WITH PA DOT ROADWAY CONSTRUCTION STANDARDS (RC-34) AND CERTIFIED FOR H2O LOADING  
 2. PROVIDE BICYCLE SAFE GRATE


### STANDARD DUTY BITUMINOUS PAVING DETAIL ON-SITE

N.T.S



### SINKHOLE REPAIR DETAIL

N.T.S

## E&S PLAN LEGEND

## SITE LIMIT OF DISTURBANCE

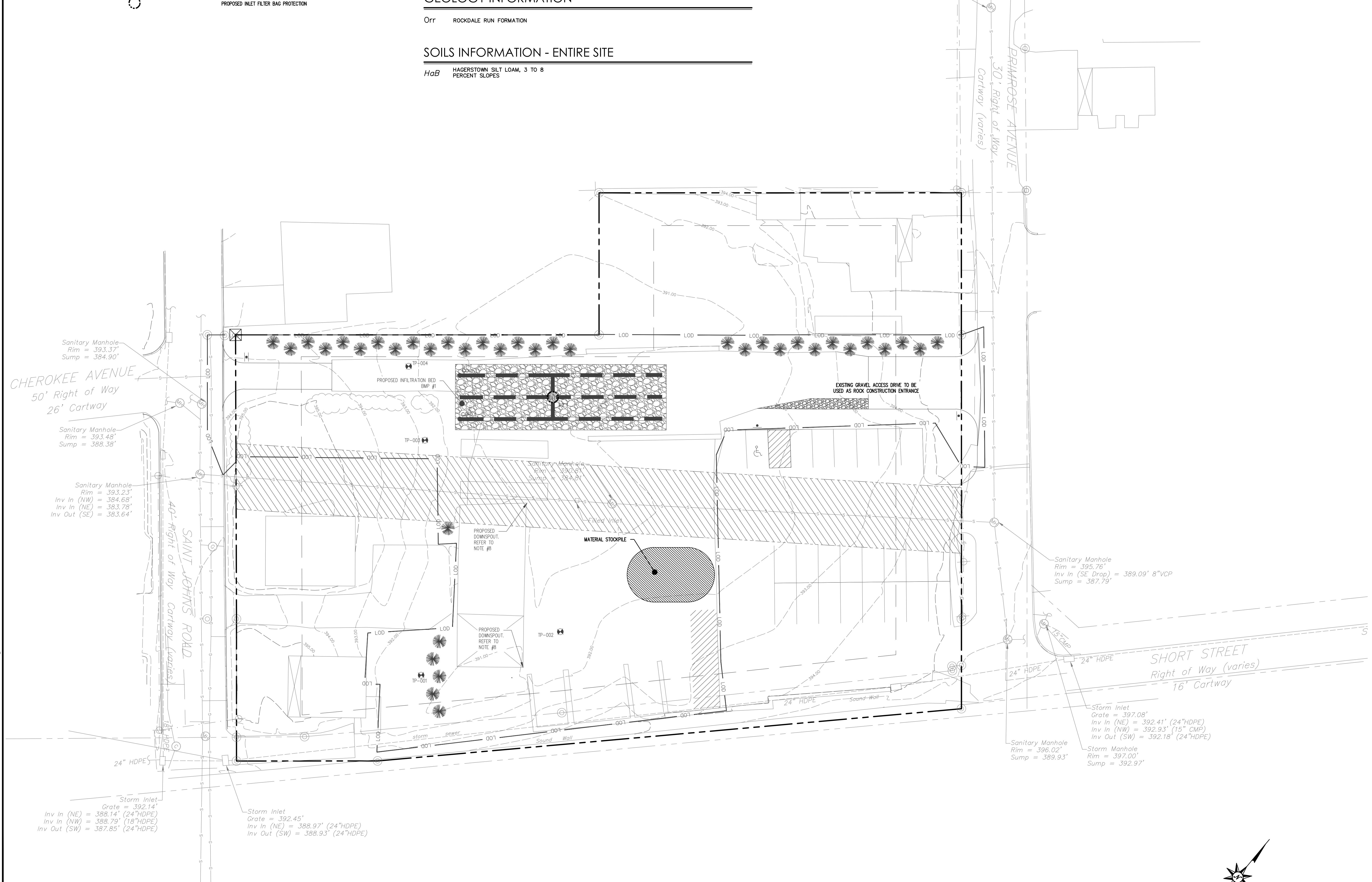
THE PROPOSED SITE LIMIT OF DISTURBANCE IS 0.82 ACRES

## GEOLOGY INFORMATION

## Orr      ROCKDALE RUN FORMATION

## SOILS INFORMATION - ENTIRE SITE

*HaB* HAGERSTOWN SILT LOAM, 3 TO  
PERCENT SLOPES



# KINDT PROPERTIES, LLC

KINDT PROPERTIES  
1013 SAINT JOHNS ROAD  
LOWER ALLEN TOWNSHIP, CUMBERLAND COUNTY, PA



HYLAND  
Engineering

212 South Front Street  
Wormleysburg, PA 17043  
(717) 723-3326

Description / Reason	REVISED PER TOWNSHIP COMMENTS	REVISED PER TOWNSHIP COMMENTS

signer	K.R.F.
after	K.R.F.
viewer	A.J.D.
ale	1"=20'
ject No.	220562
te	03/06/2024

# EROSION & SEDIMENT CONTROL PLAN

Sheet Number

EC-1

8 OF 10

## STANDARD E&S PLAN NOTES

THE FOLLOWING NOTES SHOULD BE PLACED ON THE E&S PLAN DRAWINGS.

- 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 IN THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THESE 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 PREPARED, THE PSOS PLAN PREPARED, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT 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 BE PLANNED IN ACCORDANCE WITH THE PLAN DRAWINGS. DEVIATIONS FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIVE MATERIALS.
- 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. ONCE THE BOUNDARIES ARE MARKED, THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGUN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(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 35 FEET. STOCKPILE SLOPES SHALL BE 2:1H 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 LOCAL CONSERVATION DISTRICT OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENTS SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF REACTIVE MATERIAL. BULK SOLIDS AND CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- 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. INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs SHALL BE MADE PRIOR TO REPAIR OR REPLACEMENT. REGRADING, RESEEDING, REMULCHING AND RETENING MUST BE PERFORMED IMMEDIATELY IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED. REPAIRS, 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 AGENCIES.
- SEDIMENT TRACED 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, SHOVELLED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOPSOLED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES DEPENDING ON THE SOIL TYPE 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 COMPAKTED AS REQUIRED TO REDUCE EROSION, SLIPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPAKTED AS REQUIRED BY THE CONTRACTOR.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPAKTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIVE 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 THE FILL.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEPS 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, COMPACTED BRICK AND ROCK FILLS NEED NOT BE VEGETATED. SEDED AREAS WITHIN 50 FEET OF A SURFACE WETLAND OR 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, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REGRADED WITHIN 12 MONTHS, MAY BE LEFT UNSTABILIZED ACCORDING TO 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 CARVED AND RESTABLISHED DUE TO SLIPAGE, SETTLEMENT, OR OTHER RELATED DEFECTS.
- E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR A FINAL INSPECTION.
- FAILURE TO CORRECTLY INSTALL E&S BMPs FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT AS DEFINED IN SECTION 601 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
- CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOOD DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIALS, WASTES.
- UPDERRADING UNDERRADING, CLEAING, AND CHANNEL RESTORATION. THE CHANNEL RESTORATION IS PAKED, AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTION LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD) DRAWING FOR ANY CONSTRUCTION ACTIVITY TO THE LOCAL CONSERVATION DISTRICT FOR APPROVAL AND RECORDING BY THE DEPARTMENT.
- EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3:1V OR STEEPER WITHIN 50 FEET OF SURFACE WATER AND ON ALL OTHER DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
- UPON TEMPORARY CESSION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE A CESSION OF EARTH DISTURBANCE ACTIVITIES WILL EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION PENDING FUTURE EARTH DISTURBANCE ACTIVITIES.

## TEMPORARY SEEDING FOR SOIL STABILIZATION

SPECIES:	ANNUAL RYEGRASS (70%) PERENNIAL RYEGRASS (30%)
% PURE LIVE SEED:	95%
APPLICATION RATE:	4LBS./MSF
FERTILIZER TYPE: 10-10-10	
FERTILIZER APPLICATION RATE:	12.5 LBS/1,000 SF
LIMING RATE:	40 LBS/1,000 SF
MULCH TYPE:	STRAW MULCH RATE: 40 LBS/1,000 SF
ANCHOR MATERIAL:	EC3000 COPOLYMER TACKIFIER
ANCHORING METHOD:	SLURRY, MIX AND SPRAY
ANCHORING RATE OF APPLICATION:	3 LBS/ACRE
SEEDING DATE:	AS REQUIRED

## LIME AND FERTILIZER APPLICATION RATES

TABLE 11.2 SOIL AMENDMENT APPLICATION RATE EQUIVALENTS				
SOIL AMENDMENT	PERMANENT SEEDING APPLICATION RATE		NOTES	
	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	
AGRICULTURAL LIME	6 TONS	240 LB.	2,480 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
10-10-20 FERTILIZER	1,000 LB.	25 LB.	210 LB.	OR AS PER SOIL TEST; MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
TEMPORARY SEEDING APPLICATION RATE				
AGRICULTURAL LIME	1 TON	40 LB.	410 LB.	Typically not required for topsoil stockpiles
10-10-20 FERTILIZER	500 LB.	12.5 LB.	100. LB.	Typically not required for topsoil stockpiles

ADAPTED FROM PENN STATE "EROSION CONTROL AND CONSERVATION PLANTINGS ON NONCROPLAND".

NOTE: A COMPOST BLANKET WHICH MEETS THE STANDARDS OF THIS CHAPTER MAY BE SUBSTITUTED FOR THE SOIL AMENDMENT SHOWN IN TABLE 11.2

## MULCHING

MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN TABLE 11.6

STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ON THE CONTOUR. NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.

POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HOUR CURING PERIOD AND A SOIL TEMPERATURE HIGHER THAN 45°F ARE TYPICALLY REQUIRED. APPLICATION SHOULD GENERALLY BE HEAVIEST AT EDGES OF SEDED AREAS AND AT CRESTS OF RIDGES AND BANKS TO PREVENT LOSING MULCH. RECOMMENDED MULCH AREA SHOULD HAVE BINDER ADDED UNIFORMLY. BINDERS MAY BE APPLIED AFTER MULCH IS SPREAD OR SPOTTED INTO THE MULCH AS IT IS BEING BLOWN ONTO THE SOIL. APPLYING STRAW AND BINDER TOGETHER IS GENERALLY MORE EFFECTIVE.

SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES.

MULCH ON SLOPES OF 8% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING, LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 5% WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LB/ACRE AT A MINIMUM.

TABLE 11.6 MULCH APPLICATION RATES				
MULCH TYPE	APPLICATION RATE (MIN.)		NOTES	
	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	
STRAW	3 TONS	140 LB.	1,240 LB.	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN
HAY	3 TONS	140 LB.	1,240 LB.	TIMOTHY, MIXED CLOVER AND TIMOTHY OR OTHER NATIVE FORAGE GRASSES
WOOD CHIPS	4-6 TONS	185-275 LB.	1,650-2,500 LB.	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES
HYDROMULCH	1 TON	47 LB.	415 LB.	SEE LIMITATIONS ABOVE

## SEEDING MIXTURES

- LAWN SEEDING MIXTURE  
15 % PERENNIAL RYEGRASS (BLEND OF 3 IMPROVED HYBRIDS)  
25 % FINE LEAF OR CREEPING FESCUE (BLEND OF 3 IMPROVED HYBRIDS)  
60 % KENTUCKY BLUEGRASS (BLEND OF 3 IMPROVED HYBRIDS)

SEEDING RATE: 5 LBS./1,000 SF.

SEEDING DATES: AUGUST 15 - OCTOBER 1 AND APRIL 15 - JUNE 15, UNLESS OTHERWISE APPROVED BY OWNER.

- SLOPE SEEDING MIXTURE (3:1 SLOPES OR GREATER)  
CREEPING RED FESCUE (FESTUCA RUBRA) (42 %)

EXPRESS PERENNIAL RYEGRASS (LULUM PERENNII) (34 %)

BIRDSFOOT TREFOIL\* (LOTUS CORNULICULUS VAR. ARVENSIS) (8 %)

ALSIKE CLOVER (TRIFOLIUM HYBRIDUM) (8 %)

RED TOP (AGROSTIS GIGANTEA) (8 %)

LEGUMINOUS SEED TO BE INOCULATED

PURE LIVE SEED: 96-98 %

APPROVED RATE: 10-20 LBS./1,000 SF.

FERTILIZER TYPE: 10-20-20

FERTILIZER RATE OF APPLICATION: 400 LBS./ACRE

LIMING RATE: 500 LBS./ACRE (PULVERIZED AGR. LIMESTONE)

MULCH TYPE: WOOD CELLULOSE FIBER

MULCH RATE: 1400 LBS./ACRE

ANCHOR MATERIAL: EC3000 COPOLYMER TACKIFIER

ANCHORING RATE: 3 LBS./ACRE

ANCHORING RATE OF APPLICATION: 3 LBS./ACRE

SEEDING SEASON DATES: MARCH 1-MAY 15 AND SEPT. 1-OCTOBER 15

- TEMPORARY SEEDING MIXTURE TYPE 1 - TOPSOIL STOCKPILES  
ANNUAL RYEGRASS (50 %)

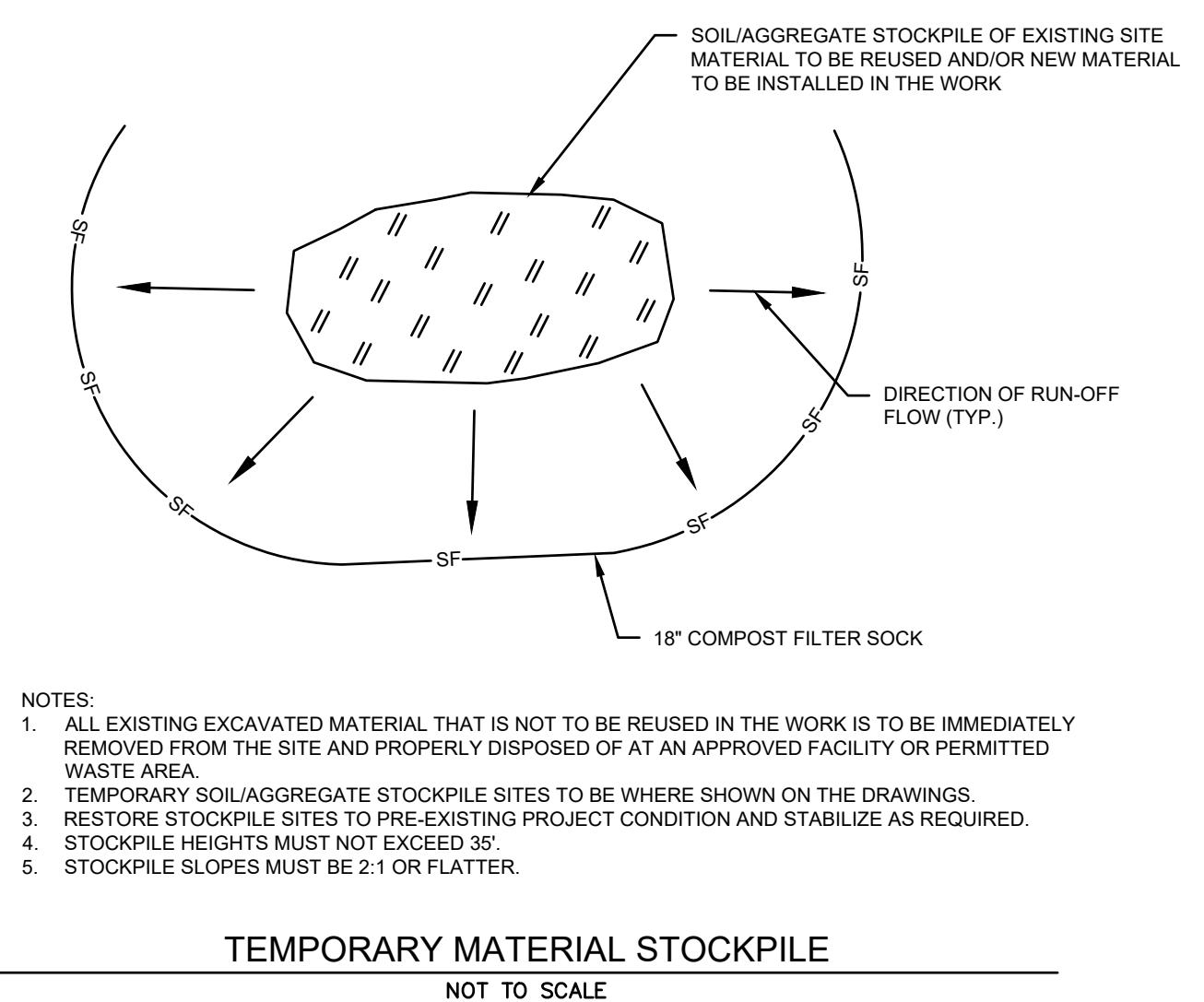
PERENNIAL RYEGRASS (20 %)

% PURE LIVE SEED: 96 %

APPLICATION RATE: 4LBS./MSF

FERTILIZER TYPE: 5-5-5

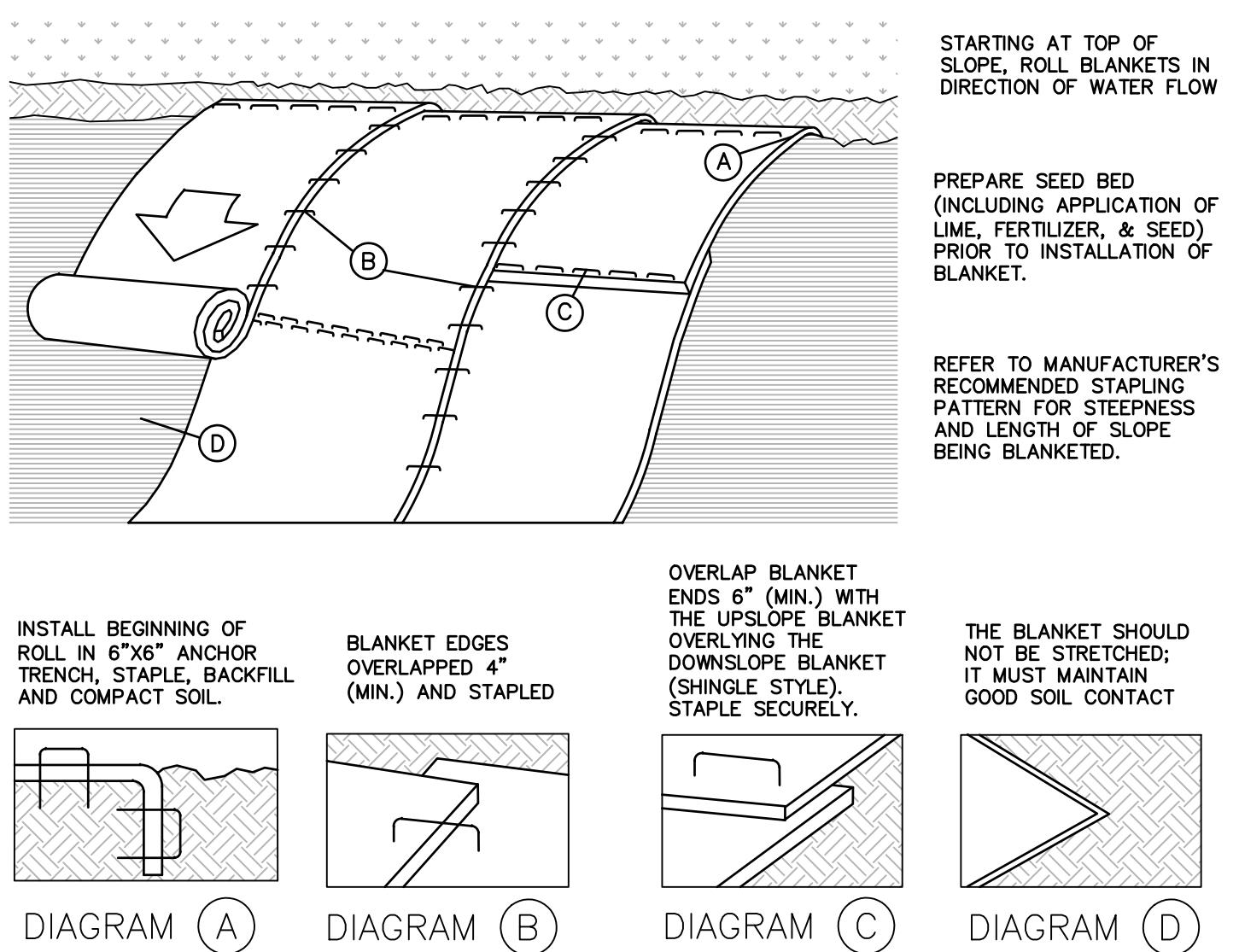
FERTILIZER APPLICATION RATE: 100



NOTES:  
1. ALL EXISTING EXCAVATED MATERIAL THAT IS NOT TO BE REUSED IN THE WORK IS TO BE IMMEDIATELY REMOVED FROM THE SITE AND PROPERLY DISPOSED OF AT AN APPROVED FACILITY OR PERMITTED.  
2. TEMPORARY SOIL/AGGREGATE STOCKPILE SITES TO BE WHERE SHOWN ON THE DRAWINGS.  
3. RESTORE STOCKPILE SITES TO PRE-EXISTING PROJECT CONDITION AND STABILIZE AS REQUIRED.  
4. STOCKPILE HEIGHTS MUST NOT EXCEED 35'.  
5. STOCKPILE SLOPES MUST BE 2:1 OR FLATTER.

TEMPORARY MATERIAL STOCKPILE

NOT TO SCALE

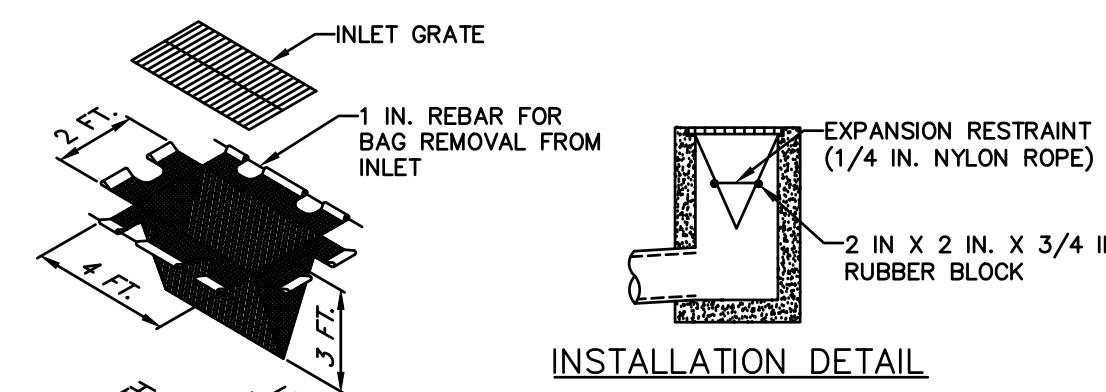


NOTES:  
SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.  
PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.  
SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.  
BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DON NOT STRETCH BLANKET.  
THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.  
BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

EROSION CONTROL BLANKET INSTALLATION DETAIL

N.T.S.

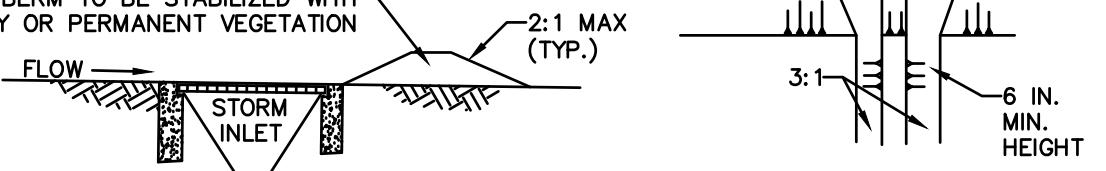
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INSTALLATION DETAIL



ISOMETRIC VIEW



SECTION VIEW

NOTES:  
MAXIMUM DRAINAGE AREA = 1/2 ACRE.

NOTES:  
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERM SHALL BE REQUIRED FOR ALL INSTALLATIONS.

NOTES:  
ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

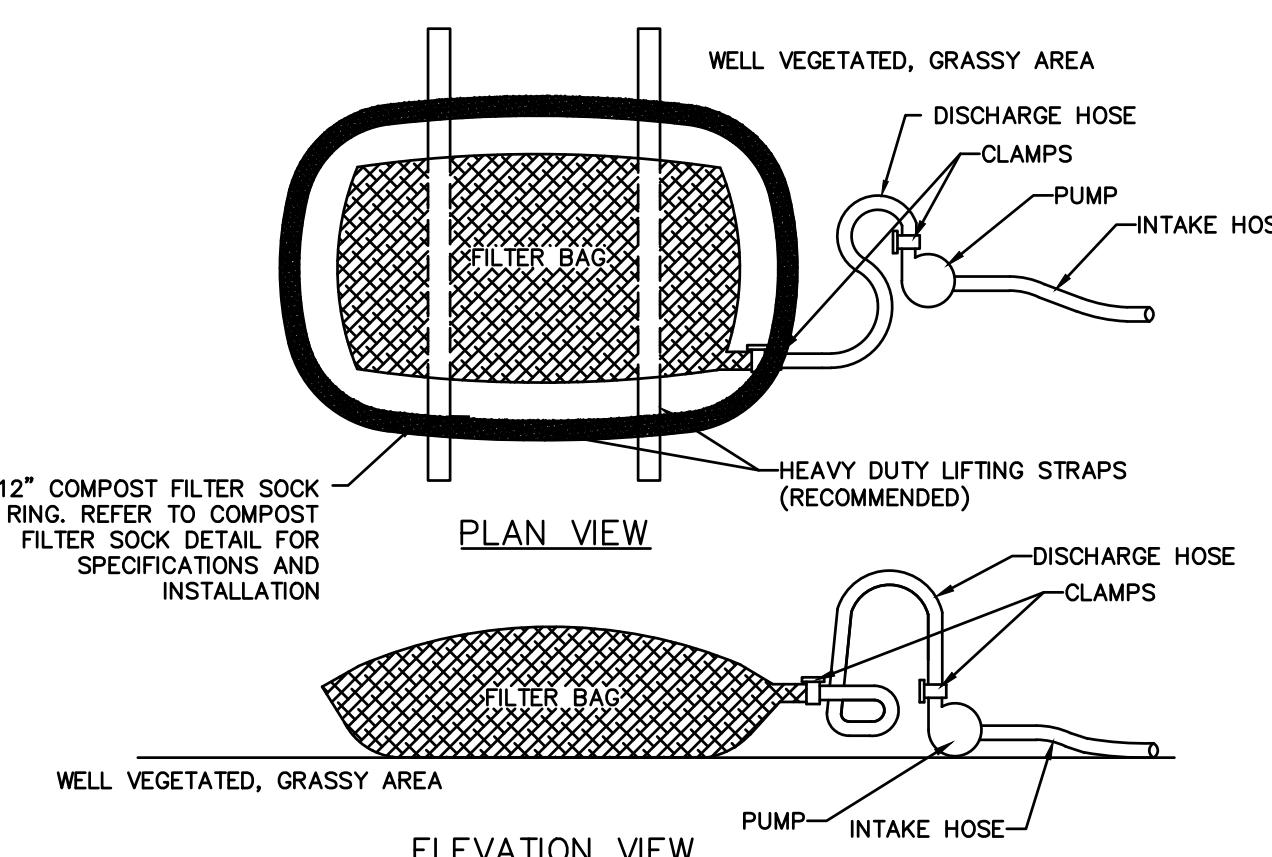
NOTES:  
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS., A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

NOTES:  
INLET FILTER BAGS SHALL BE INSPected ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF 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 ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

NOTES:  
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-16  
FILTER BAG INLET PROTECTION - TYPE M INLET

NOT TO SCALE



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

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

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

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE onto STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% OR SLOPES EXCEEDING 5% IN CLAY ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

DOWNHILL SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

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

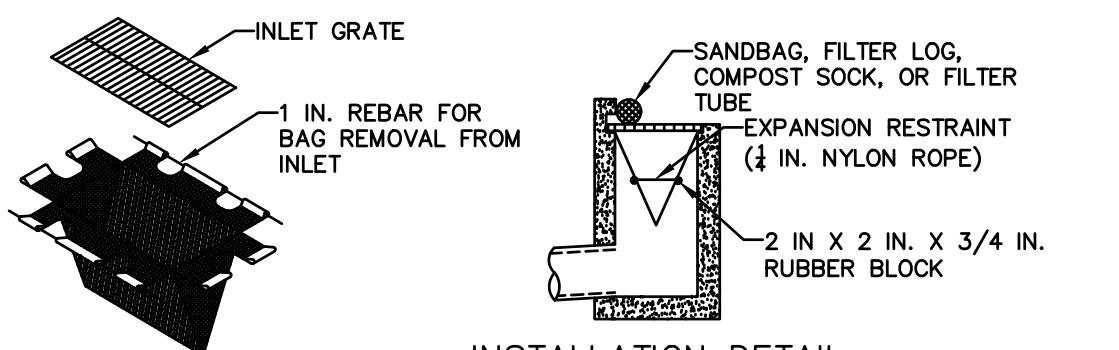
THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

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

STANDARD CONSTRUCTION DETAIL #3-16

PUMPED WATER FILTER BAG WITH COMPOST FILTER SOCK

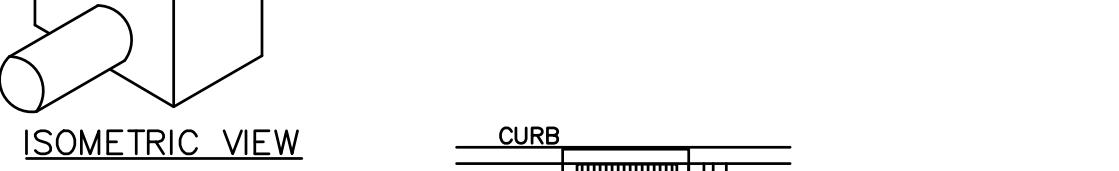
NOT TO SCALE



INSTALLATION DETAIL



ISOMETRIC VIEW



SECTION VIEW

NOTES:  
MAXIMUM DRAINAGE AREA = 1/2 ACRE.

NOTES:  
INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERM SHALL BE REQUIRED FOR ALL INSTALLATIONS.

NOTES:  
ROLLED EARTHEN BERM IN ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM ON ROADWAY SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. EARTHEN BERM IN CHANNEL SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED OR REMAIN PERMANENTLY.

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NOTES:  
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL #4-15

FILTER BAG INLET PROTECTION - TYPE C INLET

NOT TO SCALE