

CALL BEFORE YOU DIG
MISS UTILITY OF DELMARVA
1-800-282-8555 (IN DE.)
PLEASE GIVE TWO WORKING DAYS
ADVANCE NOTICE

THIS DRAWING DOES NOT INCLUDE NECESSARY
COMPONENTS FOR CONSTRUCTION SAFETY.

ALL CONSTRUCTION MUST BE DONE IN
COMPLIANCE WITH THE OCCUPATIONAL SAFETY
AND HEALTH ACT OF 1970 AND ALL RULES AND
REGULATIONS THERETO APPURTENANT.

ARTESIAN WASTEWATER MANAGEMENT NOTES:

- BIDS ARE TO BE BASED ON THE DRAWINGS PROVIDED. THIS IS TO INCLUDE ALL RESTORATION NOTED ON THE DRAWING.
- ALL MATERIAL AND INSTALLATION SHALL CONFORM TO ARTESIAN WASTEWATER MANAGEMENT, INC. SPECIFICATIONS AND 10 STATES STANDARDS.
- DEPTH OF THE PROPOSED SEWER MAIN SHALL BE A MINIMUM OF 48" FROM FINISHED GRADE TO TOP OF PIPE, INCLUDING SERVICES, UNLESS OTHERWISE SHOWN.
- DEPTH OF THE PROPOSED SEWER MAIN MAY VARY DUE TO EXISTING FACILITIES.
- EXISTING GRADES ARE NOT TO BE CHANGED.
- 18" VERTICAL CLEARANCE BETWEEN ALL UTILITIES IS TO BE MAINTAINED.
- 10' HORIZONTAL SEPARATION FROM EXISTING WATER MAINS IS TO BE MAINTAINED UNLESS NOTED OTHERWISE.
- ALL ROADWAY PATCH SHALL BE TO STATE SPEC.
- ALL CONCRETE CURB SHALL NOT BE DISTURBED UNLESS IT IS UNAVOIDABLE.
- ALL CONCRETE SIDEWALK PATCHES SHALL BE 4" THICK WITH 4" OF CRUSHER RUN.
- THE DELDOT INSPECTOR NEEDS TO BE NOTIFIED 24 HOURS IN ADVANCE OF MATERIAL PLACEMENT TO REQUEST MATERIAL RELEASES. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE DELDOT INSPECTOR.
- ALL MOT SHALL BE IN ACCORDANCE WITH THE DELAWARE MUTCD MANUAL (LATEST EDITION) AND BE NCHRP 350 CERTIFIED.
- EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH BEST AVAILABLE INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND ALLOW FOR THEIR LOCATION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT HIS EXPENSE.
- TEMPORARY SIDEWALK HAS TO BE PLACED WHERE EXISTING SIDEWALK IS REMOVED WITH BLACKTOP OR COLD PATCH. NO MORE THAN 500' CAN BE REMOVED WITHOUT PUTTING IN THE TEMPORARY SIDEWALK.
- HYDRO-SEEDING AND SIFTED TOPSOIL SHALL BE USED FOR THE RESTORATION IN GRASS AREAS/LAWNS.
GRASS SEED SPECIFICATIONS
FULL SUNSHADE MIX
30% MONTAUK TALL FESCUE
20% PERENNIAL RYEGRASS
20% ANNUAL RYEGRASS
20% CREEPING RED FESCUE
10% KENTUCKY BLUEGRASS
- ALL BUSHES, SHRUBS TREES AND OTHER VEGETATION WITHIN STATE RIGHT-OF-WAY REMOVED OR IMPACTED DURING CONSTRUCTION SHALL BE REPLACED IN KIND TO THE SATISFACTION OF DELDOT, OR AS APPROVED BY DELDOT INSPECTOR.
- SIDEWALKS THAT GO THROUGH DRIVEWAYS SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR SELECT. ALL OTHER SIDEWALK WILL BE A UNIT PRICE.
- VACUUM EXCAVATION METHOD IS TO BE USED FOR TEST HOLES WHERE EXISTING UTILITIES CROSS PROPOSED SEWER MAINS IN PAVING.
- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITIES AT ALL PROPOSED CROSSINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES AND/OR PROPOSED MODIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARTESIAN WASTEWATER MANAGEMENT INSPECTOR AT LEAST ONE WEEK PRIOR TO THE PLANNED COMMENCEMENT OF CONSTRUCTION.
- HOLD UTILITY POLES AS NEEDED, REMOVE & REPLACE GUY WIRES, AS NECESSARY.
- ANY EXISTING PROPERTY MONUMENTATION THAT IS DISTURBED DURING CONSTRUCTION ACTIVITIES ARE TO BE REPLACED OR RESTORED TO ORIGINAL POSITION BY CONTRACTOR.

EROSION AND SEDIMENT CONTROL SEQUENCE OF CONSTRUCTION

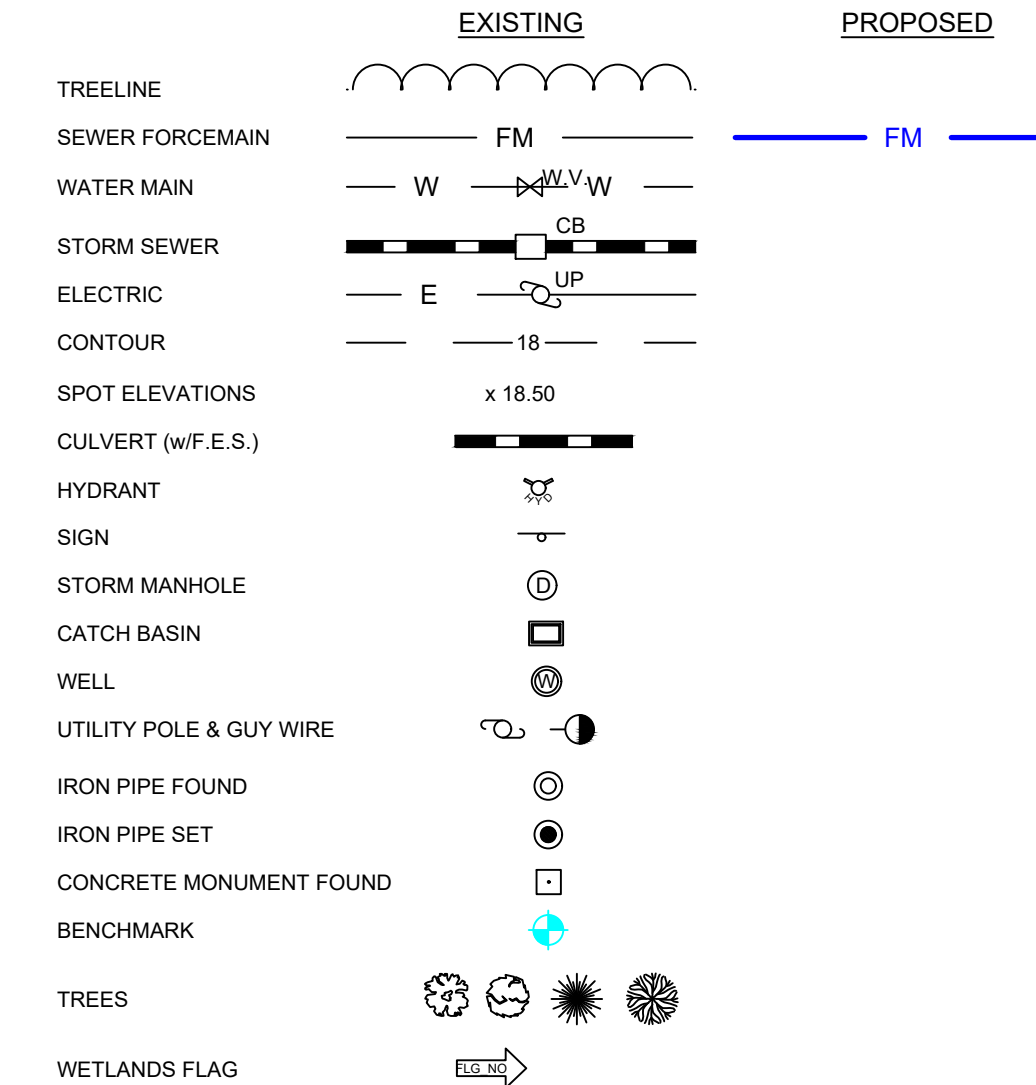
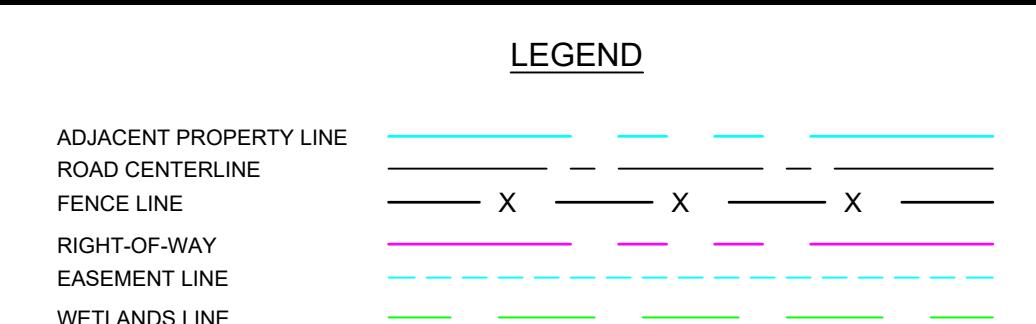
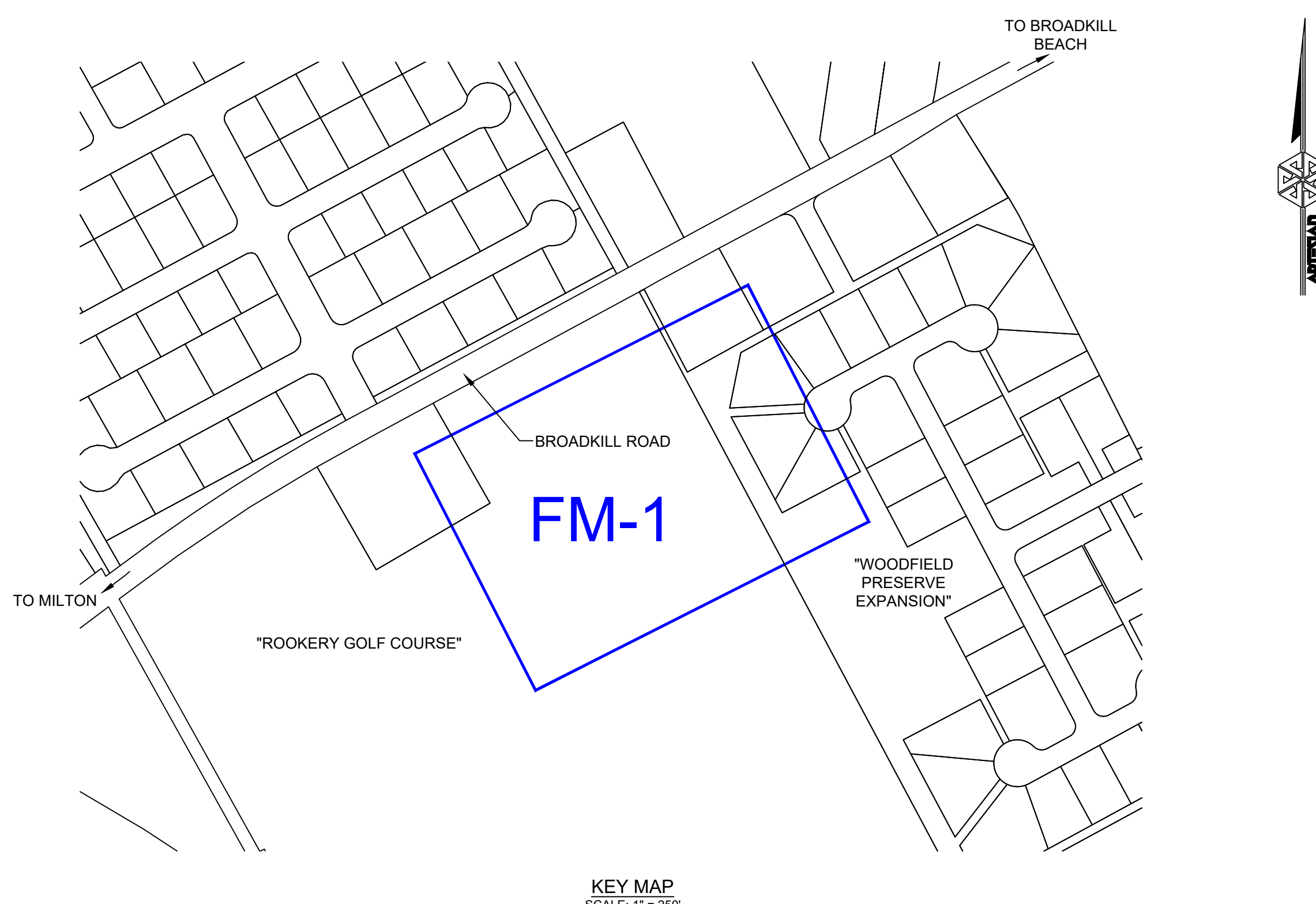
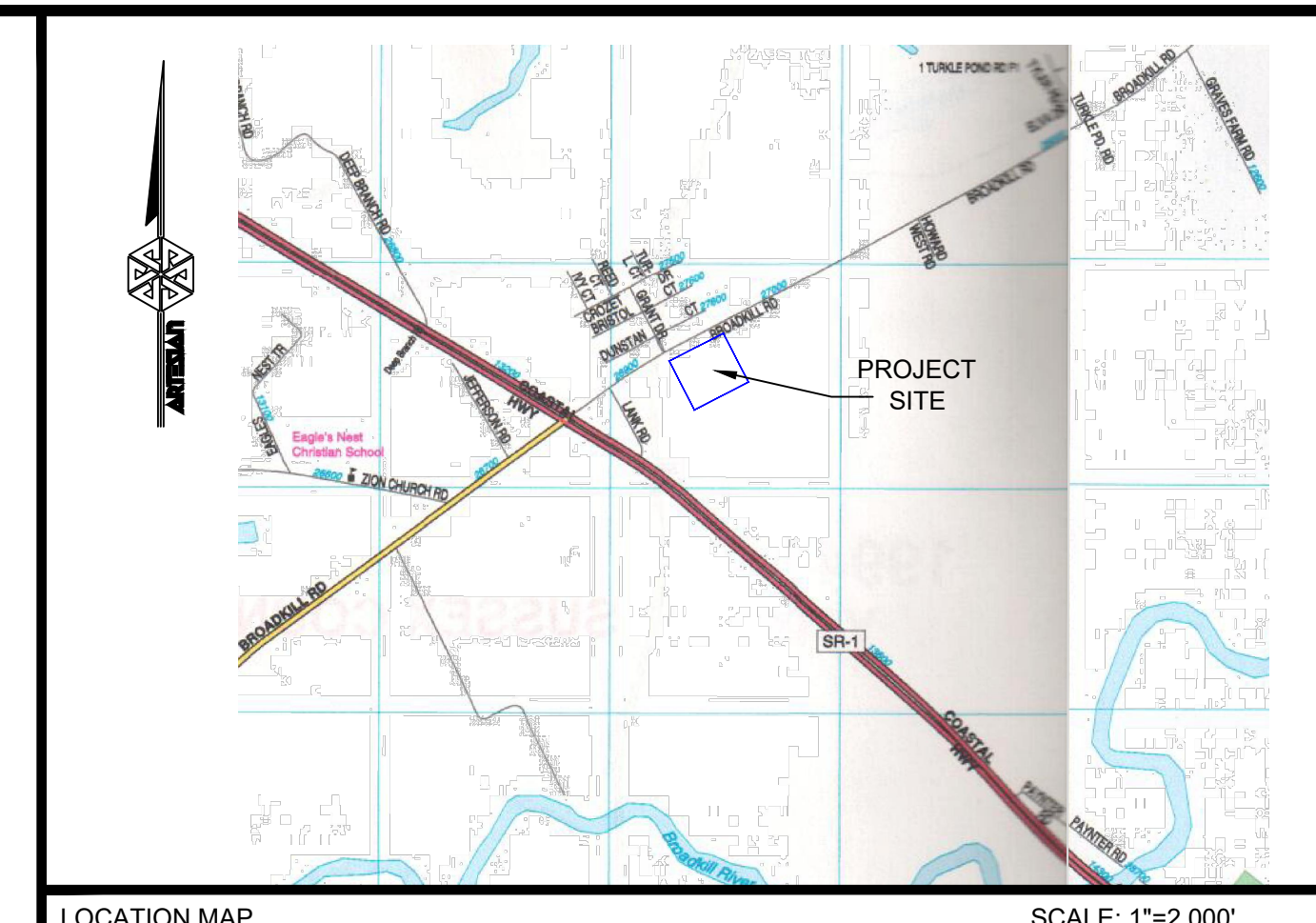
- NOTIFY THE SUSSEX CONSERVATION DISTRICT SEDIMENT AND STORMWATER PROGRAM (THE AGENCY) IN WRITING AT LEAST FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING MUST BE SCHEDULED AND CONDUCTED WITH THE AGENCY CONSTRUCTION SITE REVIEWER, THE LANDOWNER/DEVELOPER, CONTRACTOR, AND CERTIFIED CONSTRUCTION REVIEWER ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING. THE DESIGNER IS RECOMMENDED TO ATTEND.
- CLEARLY MARK THE LIMITS OF DISTURBANCE AS SHOWN BY THESE PLANS. CLEAR AND GRUB AREAS NECESSARY FOR PERIMETER CONTROLS AND UTILITY INSTALLATION.
- INSTALL SILT FENCE AT THE LOCATIONS SHOWN ON THE PLANS ESPECIALLY DOWNSTREAM. OF ANY PROPOSED DIRECTIONAL DRILL LOCATIONS, REFER TO THE STANDARD DETAIL FOR MINIMUM SPECIFICATIONS. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
- INSTALL STABILIZED CONSTRUCTION ENTRANCES PER STANDARD DETAIL FOR MINIMUM SPECIFICATIONS. INSTALL INLET PROTECTION AND CULVERT INLET PROTECTION AT LOCATIONS SHOWN ON THE PLANS PER STANDARD DETAIL FOR MINIMUM SPECIFICATIONS.
- INSTALL SEWER FORCE MAIN AND APPURTENANCES PER ARTESIAN WASTEWATER STANDARDS AND SPECIFICATIONS. ONLY ENOUGH TRENCH SHOULD BE EXCAVATED WHICH CAN BE BACKFILLED DAILY. EXCAVATED TRENCH MATERIAL SHOULD BE PLACED ON THE HIGH SIDE OF THE TRENCH.
- IMMEDIATELY FOLLOWING UTILITY INSTALLATION, THE TRENCH SHALL BE BACKFILLED, COMPACTED AND STABILIZED AT THE END OF EACH WORKING DAY. FULL TRENCH COMPACTION IS REQUIRED.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
- NOTIFY THE PERSON RESPONSIBLE FOR STORMWATER SYSTEM CONSTRUCTION REVIEW AT LEAST THREE (3) DAYS PRIOR TO THE START OF THE STORMWATER SYSTEM CONSTRUCTION; STORMWATER FACILITIES MUST BE REVIEWED THROUGHOUT THEIR CONSTRUCTION.
- ANY DITCHES OR DRAINAGE WAYS DISTURBED DURING CONSTRUCTION WILL BE RESTORED TO ORIGINAL CONDITION IMMEDIATELY.
- APPLY STRAW MULCH AND CRIMP STRAW AS TEMPORARY FOR STABILIZATION PRIOR TO FARMING OPERATIONS.
- EROSION AND SEDIMENT CONTROL DEVICES SHOULD BE REMOVED ONLY AFTER WORK IN AN AREA HAS BEEN COMPLETED AND STABILIZED, WITH WRITTEN APPROVAL FROM THE AGENCY CONSTRUCTION SITE REVIEWER.
- ONLY AFTER RECEIVING APPROVAL, PROCEED TO REMOVE THE TEMPORARY EROSION MEASURES.
- PRIOR TO COMMENCING A NEW PHASE OF CONSTRUCTION, THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE AGENCY CONSTRUCTION SITE REVIEWER THAT THE PREVIOUS PHASE HAS BEEN SUFFICIENTLY STABILIZED.
- ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
- THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE. ALL ELEMENTS OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PLAN.

CONSTRUCTION PLANS

FORCEMAIN EXTENSION

ROOKERY GOLF COURSE TO WOODFIELD EXPANSION

SITUATED IN
SUSSEX COUNTY * STATE OF DELAWARE



STORM DRAINAGE :

- IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR OR REPLACE ANY STORM DRAINAGE THAT IS DAMAGED DURING CONSTRUCTION

TRAFFIC CONTROL:

- CONTRACTOR IS RESPONSIBLE TO FOLLOW THE GUIDELINE SET FORTH IN THE LATEST VERSION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND DIRECTIVES SET FORTH BY THE DELAWARE DEPARTMENT OF TRANSPORTATION.

DELDOT NOTES:

- CONCRETE SIDEWALK PATCHES SHALL BE 4" DEPTH CONCRETE ON 4" DEPTH GRADED AGGREGATE BASE COURSE. AT DRIVEWAY ENTRANCES, THESE DEPTHS SHALL BE INCREASED TO 6" CONCRETE ON 6" GABC.
- SIGNS FOR PEDESTRIAN DETOURS SHALL BE PLACED BY CONTRACTOR, AS APPROVED BY DELDOT SAFETY OFFICER. PEDESTRIAN DETOUR SIGN PLAN SHALL BE SUBMITTED TO DELDOT, AND APPROVED BY DELDOT IN WRITING PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK WITHIN THE STATE RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT REVISION OF DELDOT STANDARD SPECIFICATIONS, DELDOT STANDARD CONSTRUCTION DETAILS, DELAWARE MUTCD, AND DELDOT UTILITIES MANUAL.
- RIGHT OF WAY: ANY RIGHT OF WAY AND EASEMENT LINES SHOWN ON THESE PLANS ARE FOR ASSISTANCE IN INTERPRETING THE PLANS. THEY ARE NOT OFFICIAL. FOR OFFICIAL RIGHT OF WAY AND EASEMENT INFORMATION SEE APPROPRIATE RIGHT OF WAY PLATS LOCATED IN THE SUSSEX COUNTY RECORDER OF DEEDS.
- VALVES SHALL NOT BE INSTALLED IN CONCRETE CURBS. DELDOT POLICY DISCOURAGES PLACEMENT OF VALVES IN SIDEWALK WITHIN STATE RIGHT-OF-WAY.

NOTE:
ANY EXISTING PROPERTY MONUMENTATION THAT IS DISTURBED DURING CONSTRUCTION ACTIVITIES ARE TO BE REPLACED OR RESTORED TO ORIGINAL POSITION BY CONTRACTOR.

NOTE:
RIGHT OF WAY AND/OR PROPERTY LINES DEPICTED ON PLANS ARE NOT THE RESULT OF ANY RIGHT OF WAY AND/OR PROPERTY LINE SURVEY BY ARTESIAN WASTEWATER MANAGEMENT, INC. RIGHT OF WAY AND/OR PROPERTY LINES ARE THE RESULT OF PHYSICAL MONUMENTS FOUND IN THE FIELD, DELAWARE DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ROAD PLANS AND THE BEST AVAILABLE INFORMATION FROM SUSSEX COUNTY MAPPING.

INDEX OF SHEETS

COVER SHEET	SHEET C-1
FORCEMAIN PLANS & PROFILES	SHEET FM-1
FORCEMAIN NOTES & DETAILS PLAN	SHEET FM-2 THRU FM-4

REFER TO THE ABOVE INDEX FOR THE LOCATION OF OTHER DETAILS REQUIRED FOR SITE IMPROVEMENTS.

OWNER/DEVELOPER CERTIFICATION

I, HEREBY CERTIFY THAT I AM THE LEGAL REPRESENTATIVE FOR THE FORCEMAIN AND ASSOCIATED CONSTRUCTION IMPROVEMENTS SHOWN ON THIS PLAN. THAT THE PLAN WAS MADE AT MY DIRECTION, THAT I ACKNOWLEDGE THE SAME TO BE MY ACT, AND DESIRE THE PLAN TO BE DEVELOPED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED PLANS AND THAT RESPONSIBLE PERSONNEL (I.E. BLUE CARD HOLDER) INVOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ON-SITE REVIEWS, AND I UNDERSTAND MY RESPONSIBILITIES UNDER THE NPDES CONSTRUCTION GENERAL PERMIT, AS REFERENCED ON THIS COVER SHEET.

WILLIAM ADKINS, MANAGING MEMBER
THE GREENS AT BROADVIEW LLC
27052 BROADKILL ROAD
MILTON, DELAWARE 19968
PHONE: (302) 684-3000

DATE:

ENGINEER'S CERTIFICATION

I, DANIEL W. KONSTANSKI, P.E. HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF DELAWARE, AND THAT THE INFORMATION SHOWN HEREON HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF REPRESENTS GOOD ENGINEERING PRACTICES AS REQUIRED BY THE APPLICABLE LAWS OF THE STATE OF DELAWARE.

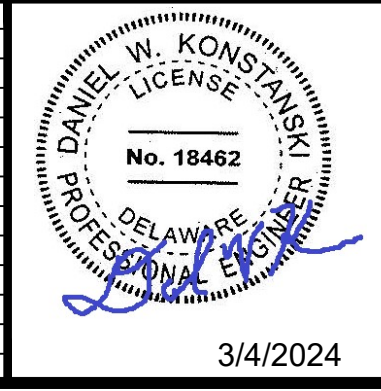
DANIEL W. KONSTANSKI, P.E.
ARTESIAN WASTEWATER MANAGEMENT, INC.
664 CHURCHMANS ROAD
NEWARK, DE 19702
PHONE: (302) 453-6900
FAX: (302) 453-5800

DATE:

FOR THE SUSSEX CONSERVATION DISTRICT

664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19850
Phone: (302) 453-6900 Fax: (302) 453-5800

REVISIONS:

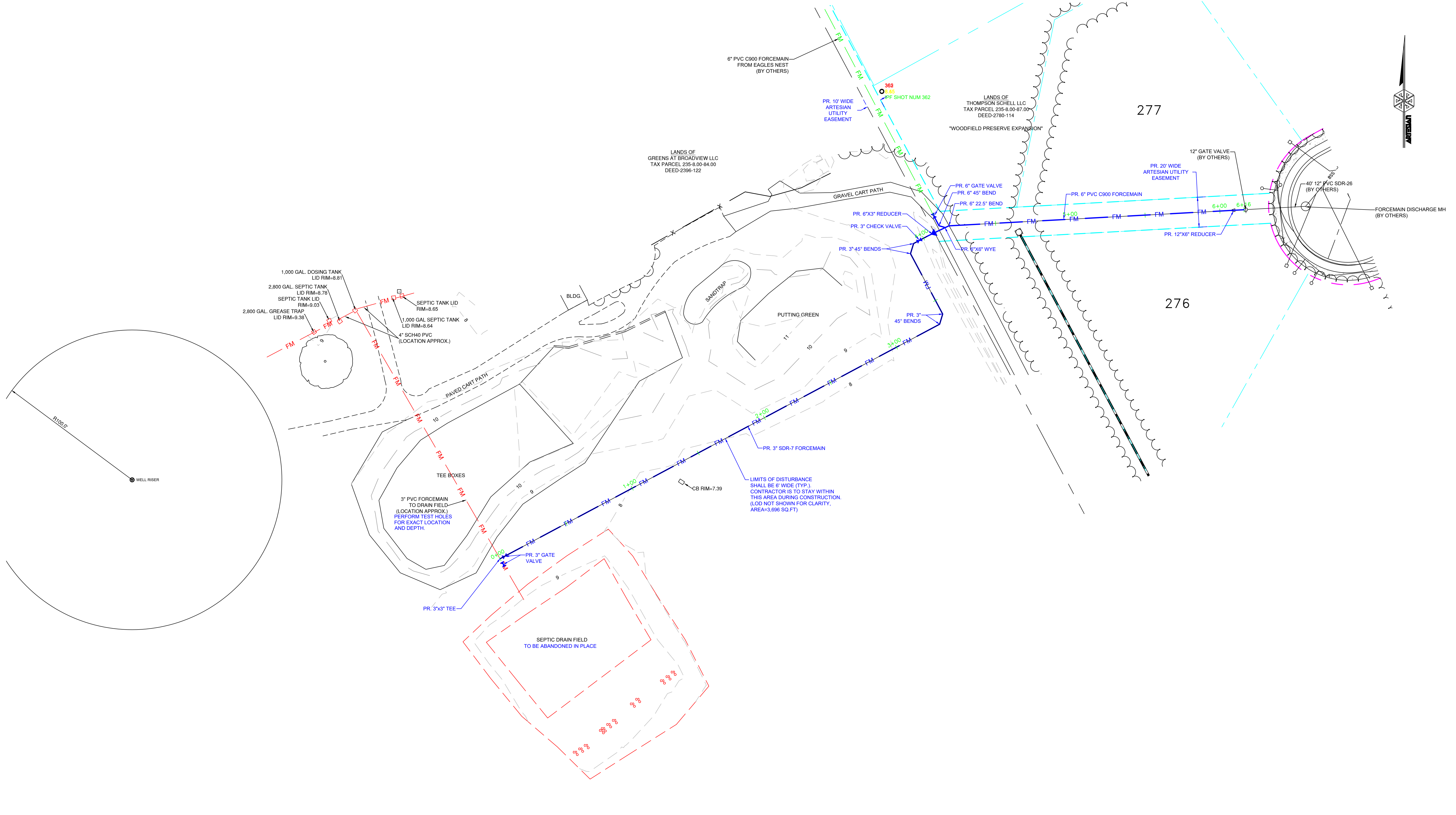


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Scale: 1"=250'	Page & Grid:	Hundred: BROADKILL
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FORCEMAIN EXTENSION PLANS
ROOKERY GOLF COURSE TO WOODFIELD EXPANSION

SUSSEX COUNTY STATE OF DELAWARE

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PLAN VIEW
SCALE: 1"=30'

NOTE:

1. THE CONTRACTOR SHALL NOT TRESPASS OUTSIDE OF PERMANENT EASEMENT AREA OR THE TEMPORARY CONSTRUCTION EASEMENT AREA.
2. THE CONTRACTOR SHALL CLEAR AND GRUB PERMANENT EASEMENT AS NECESSARY FOR OPEN CUT PORTIONS OF PROJECT ONLY.

NOTE:
RIGHT OF WAY AND/OR PROPERTY LINES DEPICTED ON PLANS ARE NOT THE RESULT OF ANY RIGHT OF WAY AND/OR PROPERTY LINE SURVEY BY ARTESIAN WASTEWATER MANAGEMENT, INC. RIGHT OF WAY AND/OR PROPERTY LINES ARE THE RESULT OF PHYSICAL MONUMENTS FOUND IN THE FIELD, DELAWARE DEPARTMENT OF TRANSPORTATION, STATE HIGHWAY ROAD PLANS AND THE BEST AVAILABLE INFORMATION FROM SUSSEX COUNTY MAPPING.



664 Churchmans Road
Newark, Delaware 19702
P.O. Box 15004, Wilmington, Delaware 19850
Phone: (302) 453-6900 Fax: (302) 453-5800

REVISIONS:	DESCRIPTION	BY	DATE



Date: 3/1/24
Scale: 1"=30'
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Hundred: BROADKILL
Budget No. 3005326

FORCEMAIN EXTENSION PLAN AND PROFILE
ROOKERY GOLF COURSE TO WOODFIELD EXPANSION

SUSSEX COUNTY DELAWARE



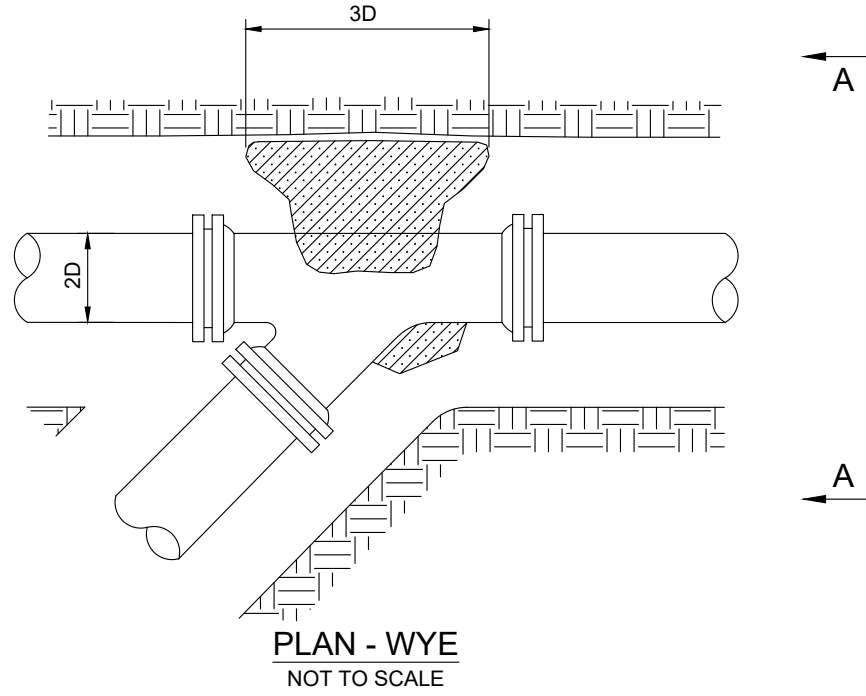
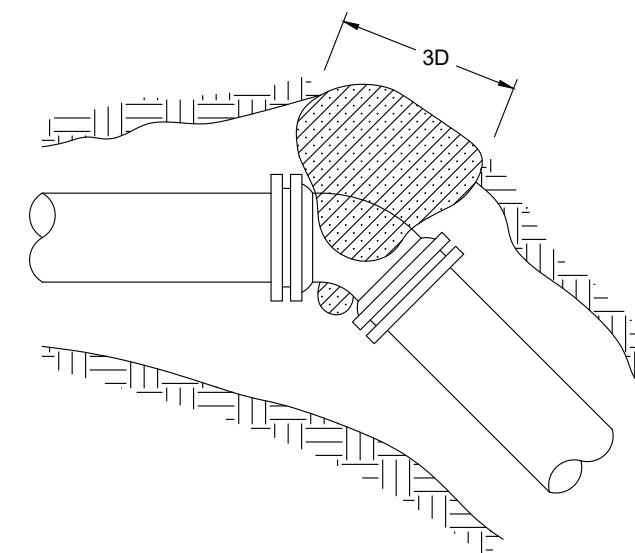
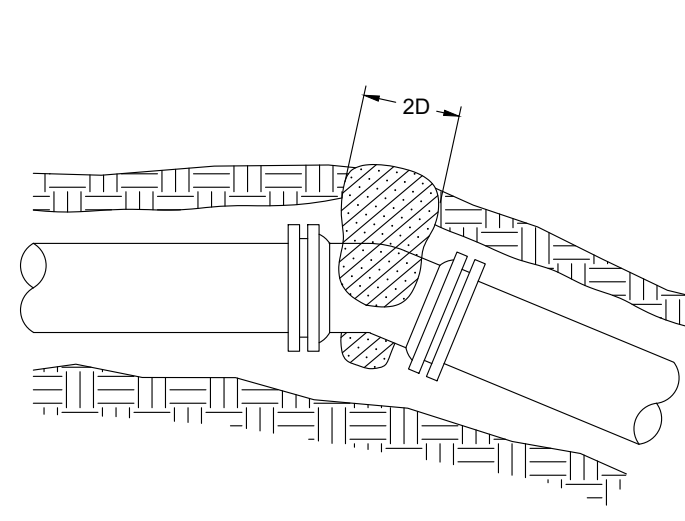
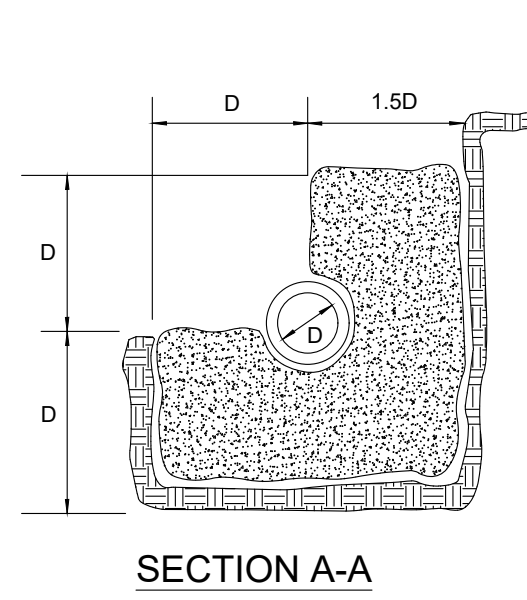
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SANITARY FORCE MAIN NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SUSSEX COUNTY, DELAWARE ORDINANCE 657 SPECIFICATIONS AND ARTESIAN WASTEWATER MANAGEMENT, INC. STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO ORDERING AND/OR FABRICATION OF ANY MATERIALS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. ALL CONSTRUCTION MUST BE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERE TO APPURTENANT. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- CONTRACTOR SHALL SUPERVISE AND DIRECT WORK. HE WILL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCE OF CONSTRUCTION.
- CONTRACTOR SHALL PATCH, REPAIR AND FINISH ALL DAMAGED SURFACES CAUSED BY THE WORK, USING MATERIALS OF THE SAME KINDS.
- FABRICATION AND INSTALLATION OF ALL MATERIALS, FINISHES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO SECURE THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATIONS AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO HIS NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL MISS UTILITY OF DELMARVA (TELEPHONE NUMBER 1-800-292-8555).
- ALL EXCESS EXCAVATION AND ALL OLD PAVEMENT, BASE COURSE, BROKEN CONCRETE, ETC., SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE HAULED AWAY FROM THE SITE AND DISPOSED OF ACCORDING TO ALL APPLICABLE ORDINANCES, LAWS & REGULATIONS.
- IN ALL AREAS WHERE UNSTABLE OR UNSUITABLE MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL FIRST NOTIFY THE OWNER, THEN REVIEW WITH THE OWNER THE POSSIBLE OPTIONS, AND THEN PROCEED WITH THE MUTUALLY ACCEPTABLE CORRECTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL INSTALLED PIPING UNTIL THE COMPLETION OF CONSTRUCTION OF THE PROJECT. PIPES WITH SHALLOW COVER SHALL BE PROTECTED FROM DAMAGE BY CONSTRUCTION MACHINERY WITH ADEQUATE TEMPORARY COVER.
- ALL EXCAVATION SHALL BE KEPT DRY AT ALL TIMES. BACK FILL SHALL BE COMPACTED TO 95% PROCTOR DENSITY. ANY BORROW NECESSARY TO BRING GRADE TO THOSE SHOWN ON THE PLANS SHALL BE SUPPLIED BY THE CONTRACTOR. BORROW SHALL BE SELECT BORROW.
- ALL DIMENSIONS ARE TO THE CENTERLINE OF THE UTILITY UNLESS OTHERWISE NOTED.
- ALL DISTURBED AREAS OUTSIDE OF PAVEMENT SHALL BE STABILIZED WITH 6" OF TOPSOIL, SEEDED AND MULCHED PER THE SPECIFICATION. UNLESS OTHERWISE NOTED, TOPSOIL SHALL CONFORM TO ASTM D 5288. REUSE TOPSOIL STOCKPILED ON THE SITE. VERIFY SUITABILITY OF SURFACE SOIL TO PRODUCE TOPSOIL MEETING THE REQUIREMENTS AND AMEND WHEN NECESSARY. SUPPLEMENT TOPSOIL WITH IMPORTED TOPSOIL WHEN QUANTITIES ARE INSUFFICIENT. CLEAN TOPSOIL OF ROOTS, PLANTS, SODS, STONES OR CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
- ALL PIPE BEDDING SHALL MEET THE REQUIREMENTS OF CLASS 'C'.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN APPROVAL AND ACCEPTANCE OF THE FORCE MAINS AND PUMP STATIONS BY ARTESIAN WASTEWATER MANAGEMENT, INC. STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL FORCE MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH ARTESIAN WASTEWATER MANAGEMENT, INC. STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL EXCAVATED MATERIALS SHALL BE STORED ON THE HIGH SIDE OF THE TRENCH AND SHALL BE BACK FILLED AT THE END OF EACH DAY.
- THE CONTRACTOR SHALL PLACE MAGNETIC DETECTION TAPE OVER ALL SEWER MAINS AND FORCE MAINS PER ARTESIAN WASTEWATER MANAGEMENT, INC. STANDARDS AND SPECIFICATIONS, LATEST EDITION.
- ALL GRADING TO BE DONE SO AS TO CAUSE DRAINAGE TO FLOW AWAY FROM ANY CONSTRUCTED ITEMS OF WORK.
- CONCRETE BUTTRESSES CONFORMING TO THE STANDARD SPECIFICATIONS SHALL BE INSTALLED ON THE FORCE MAINS.

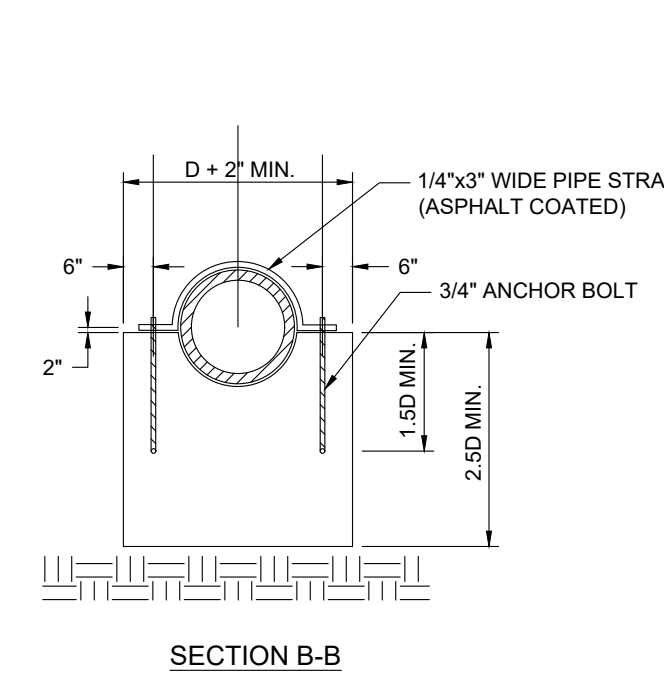
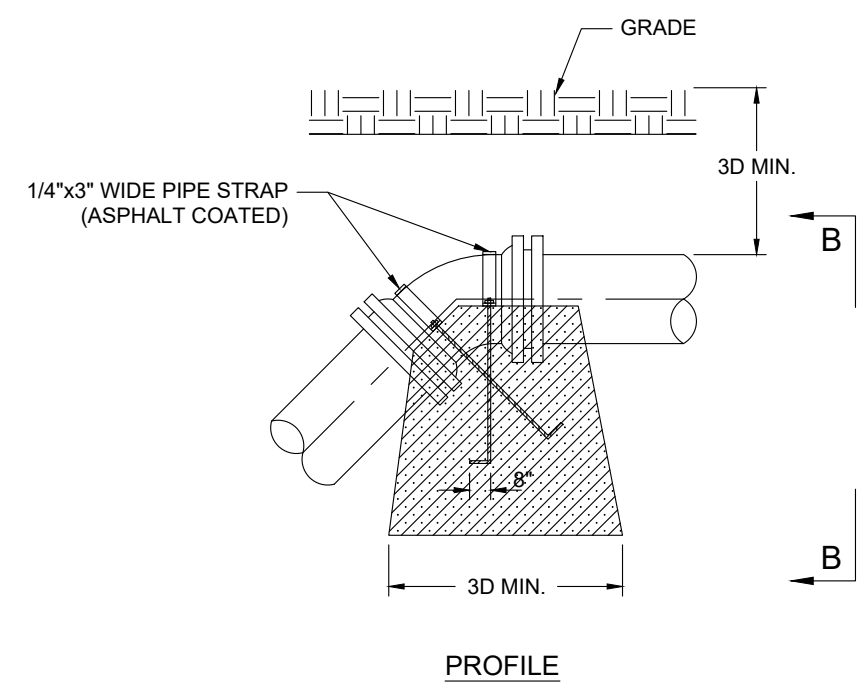
WYE

PIPE SIZE "D"	1.5D	2D	3D
20"	30"	40"	60"
16"	24"	32"	48"
12"	18"	24"	36"
10"	15"	20"	30"
8"	12"	16"	24"
6"	9"	12"	18"
4"	9"	12"	18"



PIPE SIZE "D"

1.25D	1.5D	2D	2.5D	3D
20"	25"	30"	40"	60"
16"	20"	24"	32"	48"
12"	15"	18"	24"	36"
10"	12.5"	15"	24"	30"
8"	10"	12"	20"	24"
6"	7.5"	9"	12"	18"
4"	7.5"	9"	12"	18"



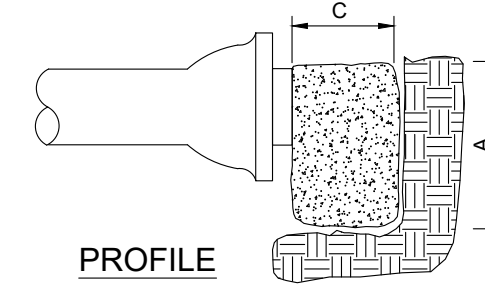
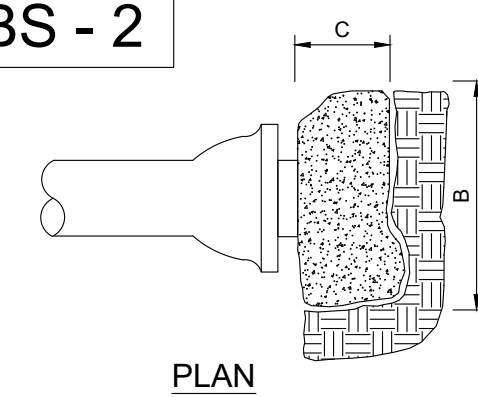
STANDARD REACTION BACKING FOR VERTICAL BENDS
NOT TO SCALE

SPECIFICATIONS DUE TO CHANGE WITHOUT NOTICE. CONTACT ARTESIAN WASTEWATER MANAGEMENT, INC. FOR LATEST REVISIONS.

GENERAL NOTES

- ALLOW SUFFICIENT SPACE TO HAVE AN ACCESS TO BOLTS IN THE MECHANICAL JOINT.
- STRENGTH OF CONCRETE SHOULD BE 2500 P.S.I. (MIN.) AFTER 28 DAYS.
- ALL REACTION BACKING TO EXTEND TO UNDISTURBED EARTH. WHEN USING MECHANICAL JOINT, USE TAR PAPER BETWEEN FITTING AND CONCRETE.

AWCBS - 2

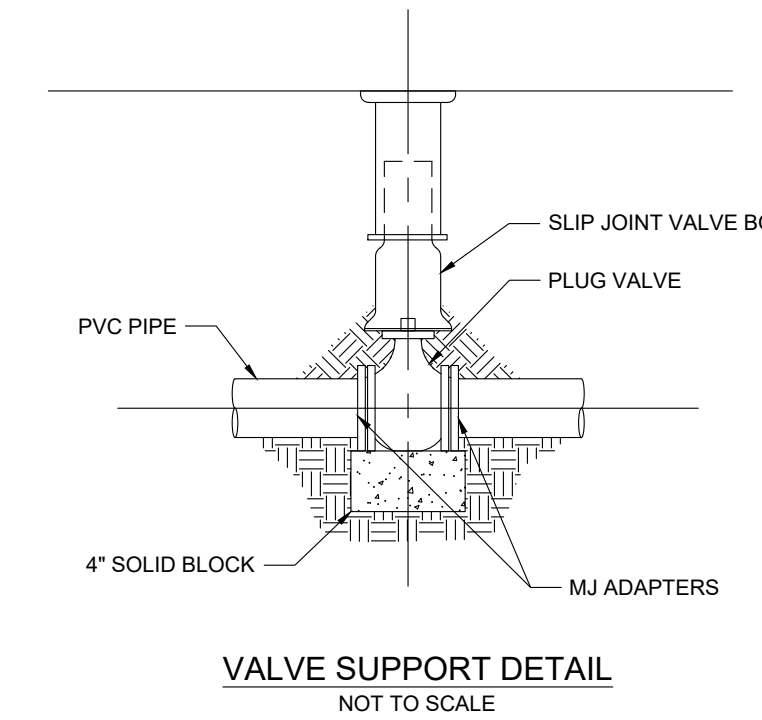
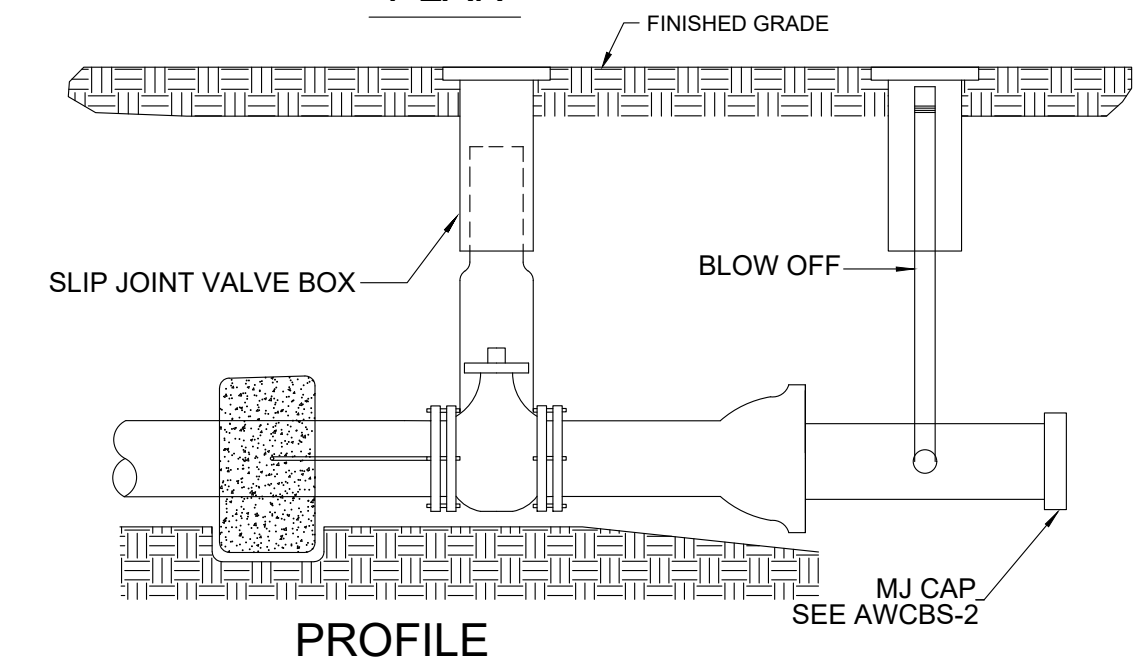
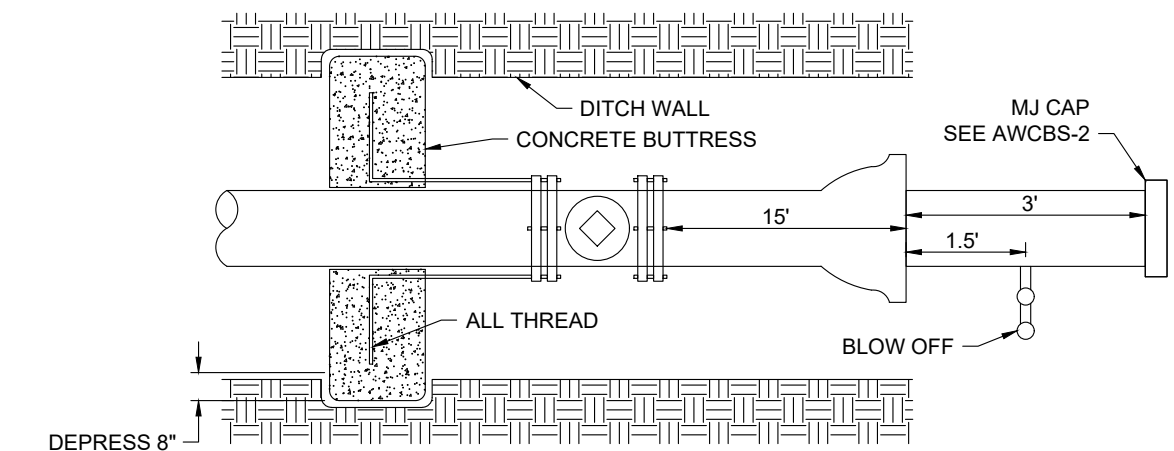


PLUG OR CAP

SIZE	A	B	C
4	1'-0"	1'-6"	1'-0"
6	1'-0"	1'-6"	1'-0"
8	1'-6"	2'-0"	1'-3"
10	1'-8"	2'-6"	1'-6"
12	2'-0"	3'-0"	1'-6"
16	2'-6"	3'-6"	2'-0"

BUTRESSES FOR PLUGS AND CAPS
NOT TO SCALE

AWCBS - 3



VALVE SUPPORT DETAIL
NOT TO SCALE

Standard Detail & Specifications
Construction Site Waste Mgt & Spill Control

Pollution Prevention - Spill Prevention

- Fueling should only take place in signed designated areas, away from downstream drainage facilities and watercourses.
- Fueling must be with nozzles equipped with automatic shut-off to control drips. Do not top off.
- Protect the areas where equipment or vehicles are being repaired, maintained, fueled or parked from storm water run-on and runoff.
- Use barriers such as berms to prevent storm water run-on and runoff, and to contain spills.
- Place a "Fueling Area" sign next to each fueling area.
- Store hazardous materials such as fuel, solvents, oil and chemicals in secondary containment.
- Inspect vehicles and equipment for leaks on each day of use. Repair fluid and oil leaks immediately.
- Absorbent spill clean-up materials and spill kits must be available in fueling areas and on fuel trucks.
- If fueling is to take place at night, make sure the fueling area is sufficiently illuminated.
- Properly dispose of used oil, fluids, lubricants and spill clean-up materials.

CLEAN UP SPILLS

- If it is safe to do so, immediately contain and clean up any chemical and/or hazardous material spills.
- Properly dispose of used oil, fluids, lubricants and spill clean-up materials.
- Do not bury spills or wash them down with water.

LEAKS AND DRIPS

- Use drip pans or absorbent pads at all times. Place under and around leaky equipment.
- Do not allow oil, grease, fuel or chemicals to drip onto the ground.
- Have spill kits and clean up material on-site.
- Repair leaky equipment promptly or remove problem vehicles and equipment from the site. Clean up contaminated soil immediately.
- Store contaminated waste in sealed containers constructed of suitable material. Label these containers properly.
- Clean up oil spills and leaks. Promptly dispose of waste and spent clean up materials.

Source: Delaware ESC Handbook
Symbol: DE-ESC-3.6.1
Detail No: Sheet 2 of 5

Effective February 2019

Standard Detail & Specifications
Construction Site Waste Mgt & Spill Control

Notes:
The Construction Site Pollution Prevention Plan should include the following elements:

- Material Inventory**
Document the storage and use of the following materials:
a. Concrete
b. Detergents
c. Paints (enamel and latex)
d. Cleaning solvents
e. Pesticides
f. Wood scraps
g. Fertilizers
h. Petroleum based products
- Good housekeeping practices**
a. Store only enough product required to do the job.
b. All materials shall be stored in a neat, orderly manner in their original labeled containers and covered.
c. Substances shall not be mixed.
d. When possible, all of a product shall be used up prior to disposal of the container.
e. Manufacturers' instructions for disposal shall be strictly adhered to.
f. The site foreman shall designate someone to inspect all BMPs daily.
- Waste management practices**
a. All waste materials shall be collected and stored in securely lidded dumpsters in a location that does not drain to a waterbody.
b. Waste materials shall be salvaged and/or recycled whenever possible.
c. The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The licensed trash hauler is responsible for cleaning out dumpsters.

Source: Adapted from USEPA Pub. 840-B-92-002
Symbol: DE-ESC-3.6.1
Detail No: Sheet 3 of 5

Effective February 2019

Standard Detail & Specifications
Construction Site Waste Mgt & Spill Control

Notes (cont.)

- Equipment maintenance practices**
a. If possible, equipment should be taken to off-site commercial facilities for washing and maintenance.
b. If performed on-site, vehicles shall be washed with high-pressure water spray without detergents in an area contained by an impervious berm.
c. Drip pans shall be used for all equipment maintenance.
d. Equipment shall be inspected for leaks on a daily basis.
e. Washout from concrete trucks shall be disposed of in a temporary pit for hardening and proper disposal.
f. Fuel nozzles shall be equipped with automatic shut-off valves.
g. All used products such as oil, antifreeze, solvents and tires shall be disposed of in accordance with manufacturers' recommendations and local, state and federal laws and regulations.
- Spill prevention practices**
a. Potential spill areas shall be identified and contained in covered areas with no connection to the storm drain system.
b. Warning signs shall be posted in hazardous material storage areas.
c. Preventive maintenance shall be performed on all tanks, valves, pumps, pipes and other equipment as necessary.
d. Low or non-toxic substances shall be prioritized for use.

Source: Adapted from USEPA Pub. 840-B-92-002
Symbol: DE-ESC-3.6.1
Detail No: Sheet 4 of 5

Effective February 2019

Standard Detail & Specifications
Construction Site Waste Mgt & Spill Control

Notes (cont.)

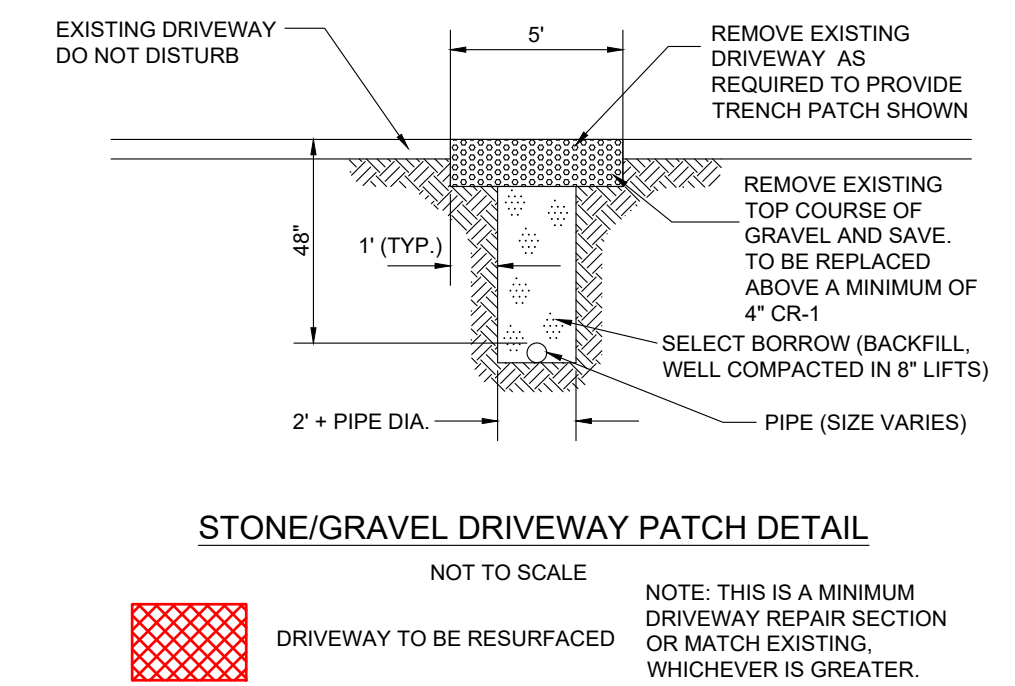
- Contact information for reporting spills through the DNREC 24-Hour Toll Free Number shall be prominently posted.
- Education**
a. Best management practices for construction site pollution control shall be a part of regular progress meetings.
b. Information regarding waste management, equipment maintenance and spill prevention shall be prominently posted in the construction trailer.

CONTACT INFORMATION

DNREC 24-Hour Toll Free Number: 800-662-8802
DNREC Solid & Hazardous Waste Management Section: 302-739-9403

Source: Adapted from USEPA Pub. 840-B-92-002
Symbol: DE-ESC-3.6.1
Detail No: Sheet 5 of 5

Effective February 2019



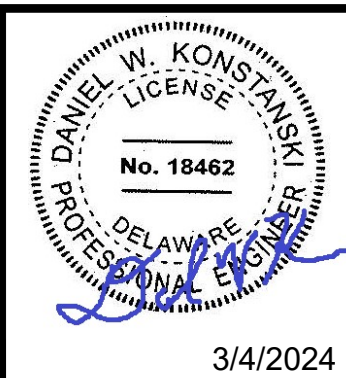
STONE/GRAVEL DRIVEWAY PATCH DETAIL
NOT TO SCALE



664 Churchmans Road
Newark, Delaware 19702
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Phone: (302) 453-6900 Fax: (302) 453-5800

REVISIONS:

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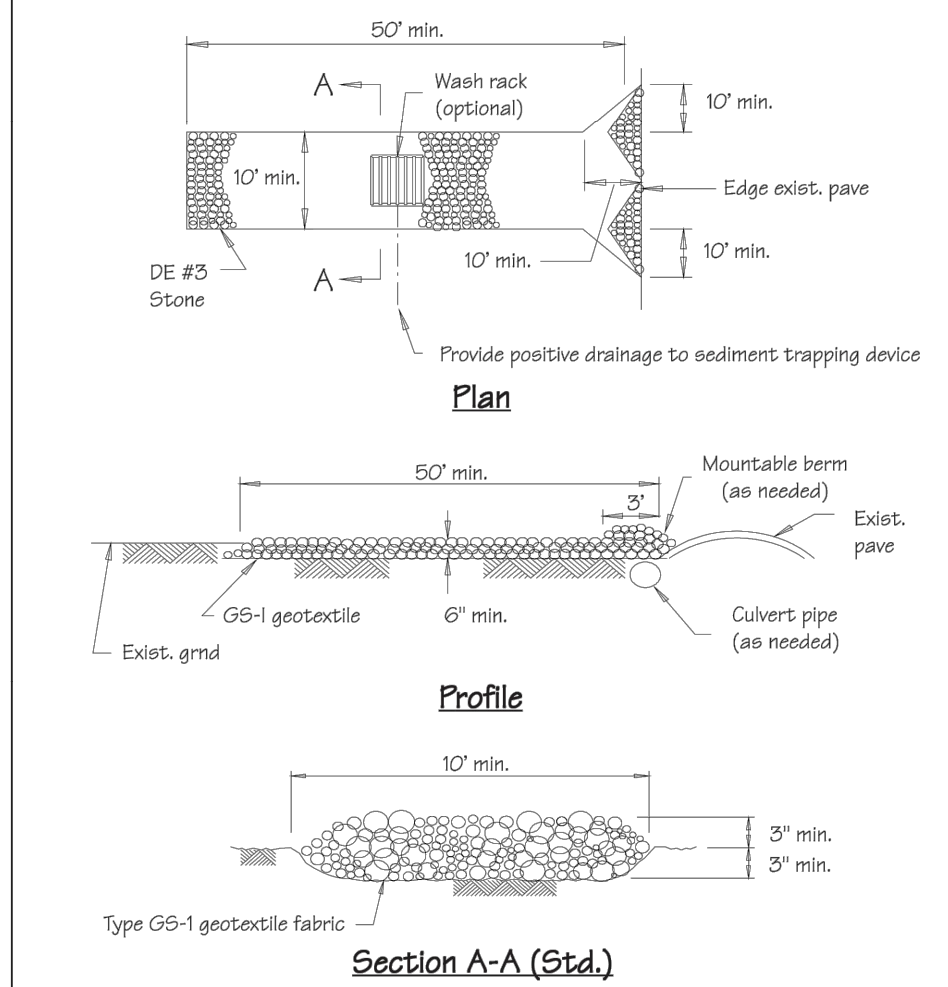


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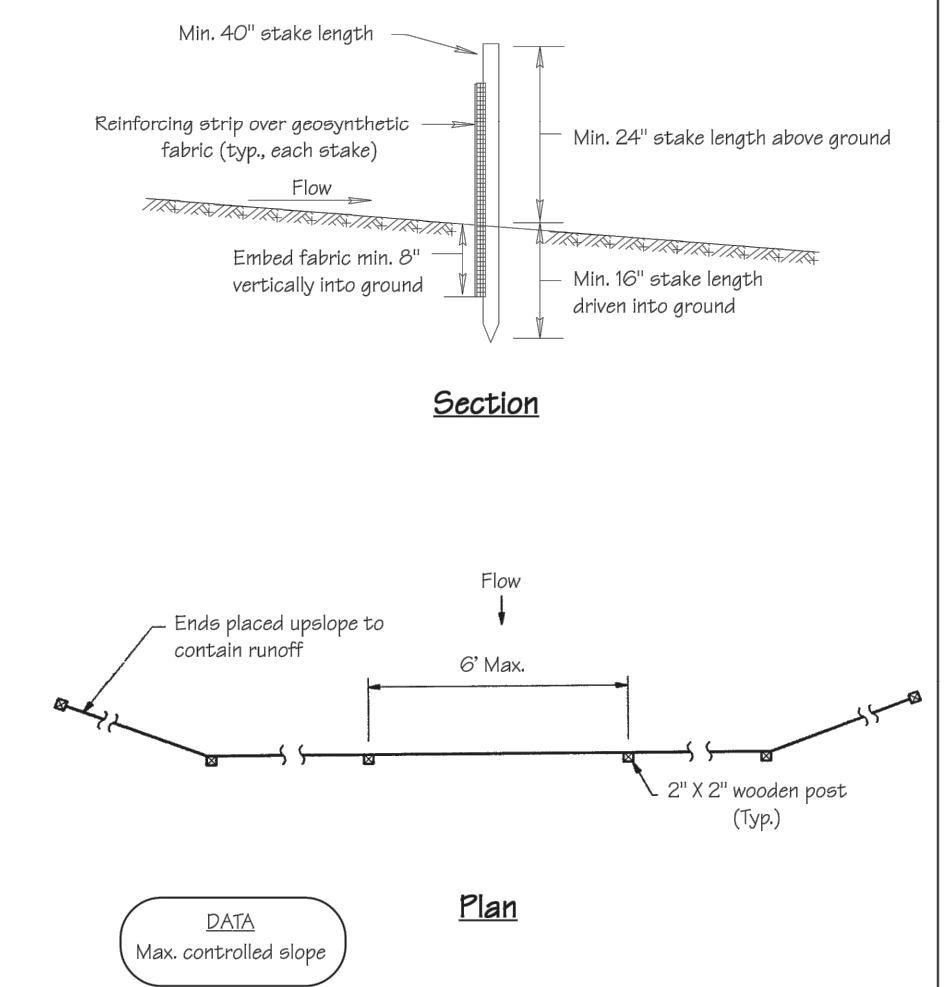
Standard Detail & Specifications
Stabilized Construct. Entrance



Source: Adapted from VA ESC Handbook	Symbol: SCE	Detail No. DE-ESC-3.4.7 Sheet 1 of 2
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Effective February 2019

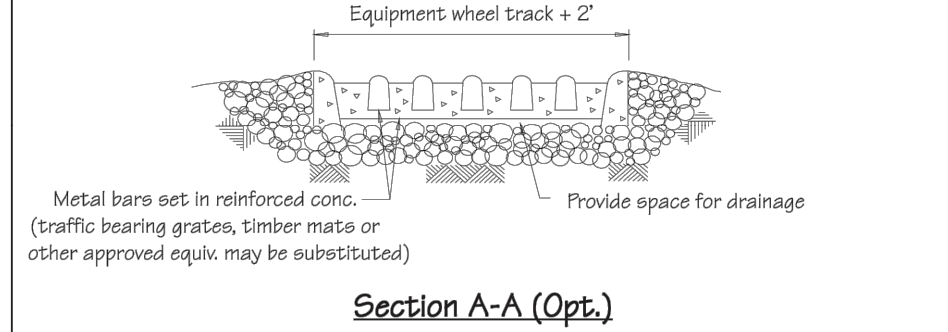
Standard Detail & Specifications
Silt Fence



Source: Adapted from MD Sids. & Specs. for ESC	Symbol: SF	Detail No. DE-ESC-3.1.2.1 Sheet 1 of 2
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Effective February 2019

Standard Detail & Specifications
Stabilized Construct. Entrance

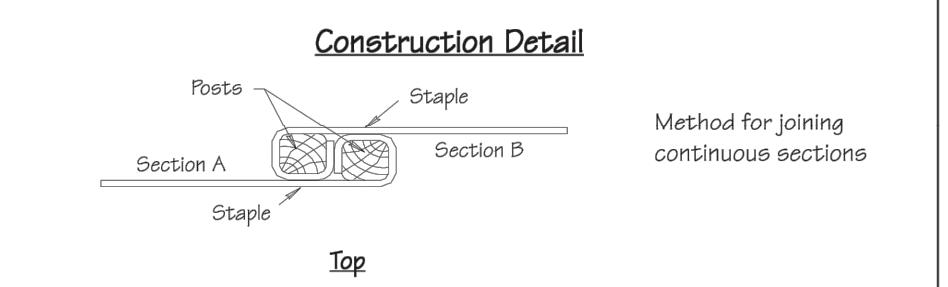


- Construction Notes:**
- Stone size - Use DE #3 stone.
 - Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
 - Thickness - Not less than size (6) inches.
 - Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
 - Geotextile - Type GS-1 placed over the entire area prior to placing of stone.
 - Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
 - Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 - Washing - Vehicle wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 - Inspection - Periodic inspection and needed maintenance shall be provided after each rain.

Source: Adapted from VA ESC Handbook	Symbol: SCE	Detail No. DE-ESC-3.4.7 Sheet 2 of 2
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Effective February 2019

Standard Detail & Specifications
Silt Fence



- Construction Notes:**
- Geosynthetic fabric to be fastened securely to fence posts with wire ties or staples.
 - When two sections of filter cloth adjoin each other they shall be overlapped by six inches and folded.
 - Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.
- Materials:**
- Stakes: Steel leather T or UJ or 2" x 2" hardwood
 - Geosynthetic Fabric: Type GD-1
 - Reinforcing strip: Wooden lath or plastic strip

Source: Adapted from MD Sids. & Specs. for ESC	Symbol: SF	Detail No. DE-ESC-3.1.2.1 Sheet 2 of 2
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Effective February 2019

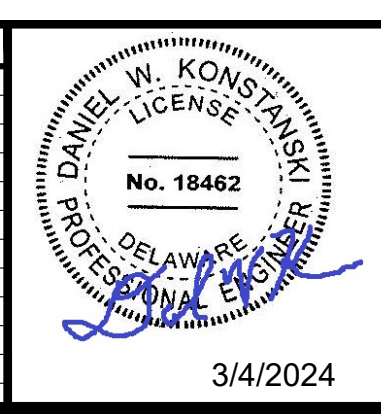
EROSION AND SEDIMENT CONTROL NOTES:

- THE SUSSEX CONSERVATION DISTRICT MUST BE NOTIFIED IN WRITING FIVE (5) DAYS PRIOR TO COMMENCING WITH CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
- REVIEW AND APPROVAL OF SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE SEDIMENT AND STORMWATER REGULATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS ON THE APPROVED PLAN.
- IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE SUSSEX CONSERVATION DISTRICT.
- THE SUSSEX CONSERVATION DISTRICT RESERVES THE RIGHT TO ENTER PRIVATE PROPERTY FOR PURPOSES OF PERIODIC SITE INSPECTION.
- FOLLOWING SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 14 CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER SEDIMENT CONTROLS, TOPSOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROPOSED SITE.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK 1989 OR LATEST EDITION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND REPAIR ALL STORMWATER AND SEDIMENT CONTROL PRACTICES DURING CONSTRUCTION AND UTILITY INSTALLATION.
- IT SHALL BE THE OWNER'S RESPONSIBILITY TO MAINTAIN THE PROPERTY DURING THE PLAN REVIEW AND APPROVAL PROCESS. IT SHALL BE THE OWNERS RESPONSIBILITY TO MAINTAIN STORMWATER FACILITY UPON COMPLETION.
- APPROVED PLANS REMAIN VALID FOR 5 YEARS FROM THE DATE OF AN APPROVAL.
- AS-BUILT SURVEYS AND DRAWINGS ARE TO BE SUBMITTED TO THE DISTRICT WITHIN 60-DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.
- APPROVAL OF A SEDIMENT AND STORMWATER PLAN DOES NOT GRANT NOR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED PERIODICALLY AND AFTER EACH RAINFALL. MAINTENANCE MUST BE PERFORMED AFTER EACH INSPECTION AS NECESSARY. ANY ERODED AREAS SHALL BE STABILIZED AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF ACCORDING TO PLAN.
- THE EROSION AND SEDIMENT CONTROL OBJECTIVES WILL BE ACHIEVED BY MINIMIZING EXPOSURE TIME OF POTENTIALLY ERODIBLE SOILS TO RUNOFF, AND INSTALLATION OF THE TEMPORARY AND PERMANENT CONSERVATION MEASURES IN PROPER SEQUENCE WITH CONSTRUCTION.
- TOPSOIL STOCKPILED ON THE SITE SHALL BE STABILIZED WITH SEED AND MULCH WITHIN 5 CALENDAR DAYS OF PLACEMENT OF THE TOPSOIL. THE TEMPORARY TOPSOIL STOCKPILE SHALL BE USED FOR FINAL GRADING OF SITE ALL REMAINING STOCKPILED MATERIAL, IF APPLICABLE SHALL BE REMOVED FROM THE SITE IN AN APPROVED MANNER.
- CONTRACTOR SHALL TAKE CARE NOT TO "TRACK" MUD OFF SITE WITH CONSTRUCTION VEHICLES AND EQUIPMENT.
- ALL AREAS NOT STABILIZED BY STONE BASE COARSE OR PAVING ARE TO BE STABILIZED ACCORDING TO THE STABILIZATION SCHEDULE IMMEDIATELY AFTER DESIGN GRADE IS ACHIEVED. HYDRO SEEDING IS RECOMMENDED WHERE SLOPES EXCEED 3:1.
- IN THE EVENT EARTHWORK OPERATIONS ARE HALTED FOR THE WINTER MONTHS, BEFORE FINAL GRADING AND SEEDING OF ALL DISTURBED AREAS ARE COMPLETED, THOSE AREAS ARE TO BE STABILIZED PER THE STABILIZATION GUIDELINES OR STABILIZED WITH A MULCH, OR TACKED WITH A CHEMICAL ADHESIVE.
- EROSION CONTROL MATTING SHALL BE USED ON ALL SLOPES THAT ARE 3:1 (3 UNITS HORIZONTAL TO 1 UNIT VERTICAL) OR GREATER AND IN AREAS OF CONCENTRATED FLOW WHERE GRADES EXCEED 1% AND IN DISTURBED AREAS WHERE HIGHLY ERODIBLE SOILS ARE PRESENT. EROSION CONTROL BLANKET SHALL BE TYPE S-150 AS MANUFACTURED BY NORTH AMERICAN GREEN OR AN APPROVED EQUIVALENT.
- IF DUST CONTROL BECOMES A PROBLEM, METHODS SUCH AS MULCHING, OR SPRINKLING WATER SHALL BE IMPLEMENTED.
- ALL FILTER FABRIC TO BE USED UNDER RIP-RAP SHALL BE Mirafi 600X OR APPROVED EQUIVALENT.
- AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHALL BE APPROVED BY THE DNREC WELL PERMITTING BRANCH.
- POST CONSTRUCTION VERIFICATION DOCUMENTS ARE TO BE SUBMITTED TO THE DNREC SEDIMENT AND STORM WATER PROGRAM OR THE RELEVANT DELEGATED AGENCY WITHIN 60 DAYS OF STORM WATER MANAGEMENT FACILITY COMPLETION.
- THE NOTICE OF INTENT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT FOR THIS PROJECT IS #5540. AT ANY TIME THE OWNERSHIP OF THIS PROJECT CHANGES, A TRANSFER OF AUTHORIZATION OR A CO-PERMITTEE APPLICATION MUST BE SUBMITTED TO DNREC. THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY DNREC.
- THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT ASSOCIATED WITH THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PERFORMING WEEKLY SITE INSPECTIONS DURING CONSTRUCTION AND AFTER RAIN EVENTS, AND MAINTAINING WRITTEN LOSS OF THESE INSPECTIONS.
- BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHALL CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
- BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7. Del C. Ch 60, REGULATIONS GOVERNING THE CONTROL OF WATER POLLUTION, SECTION 9.1.02, KNOWN AS SPECIAL CONDITIONS FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES, AND DEPARTMENT POLICIES, PROCEDURES, AND GUIDANCE.
- DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOIL AMENDMENT TAGS, ETC. SHALL BE PROVIDED TO THE DEPARTMENT OR DELEGATED AGENCY TO VERIFY THAT THE PERMANENT OR TEMPORARY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN. THE DEPARTMENT OR DELEGATED AGENCY MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH SPECIFICATIONS PROVIDED IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURES THAT PROVIDE FUNCTIONAL EQUIVALENCY.



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REVISIONS:	DESCRIPTION	BY	DATE



Date:	2/7/24	Checked By:	AG, DK	Sheet:	FM-4
Scale:	NTS	Page & Grid:		Hundred:	BROADKILL
Drawn By:	KEG	CAD File:	NOTES & DETAILS.dwg	Budget No.	3005326

FORCEMAIN NOTES & DETAILS PLAN
ROOKERY GOLF COURSE TO WOODFIELD EXPANSION

SUSSEX COUNTY STATE OF DELAWARE

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