Academy for the Gifted and Talented School 28 Green Infrastructure Information Sheet

Location:	Site Use:
200 Presidential Boulevard	School
Paterson, NJ 07522	
,	Watershed Name:
	Lower Passaic River
Ward:	Targeted Pollutants:
1	total nitrogen (TN), total phosphorus (TP), and
	total suspended solids (TSS) in surface runoff
Green Infrastructure Description:	Estimated Stormwater Captured and/or
Bioretention system and enhanced tree pits	Treated Per Year:
	491,700 gallons
Implementation Date: 10/10/2017	<u> </u>
Green Infrastructure System: 3,310 sq. ft. rai	n garden and nine 16 sq. ft. enhanced tree pits
Drainage Area: 22,135 sq. ft. (blacktop playg	
Funding Sources:	
New Jersey Department of Environmental Prote	ection 319(h)
Partners/Stakeholders:	
• •	ources Program, New Jersey Department of
of Education and Facilities, School 4 Staff and	rshed Association, Paterson Public Schools Board Students, and Passaic County
	Students, and I assaic County
Appendix A: Site Photograph – Previous Cond	lition
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Appendix B: Site Concept Plan	
Appendix C: Site Design Plan	
Appendix D: Site Photograph – Current Condi	tion

APPENDIX A:

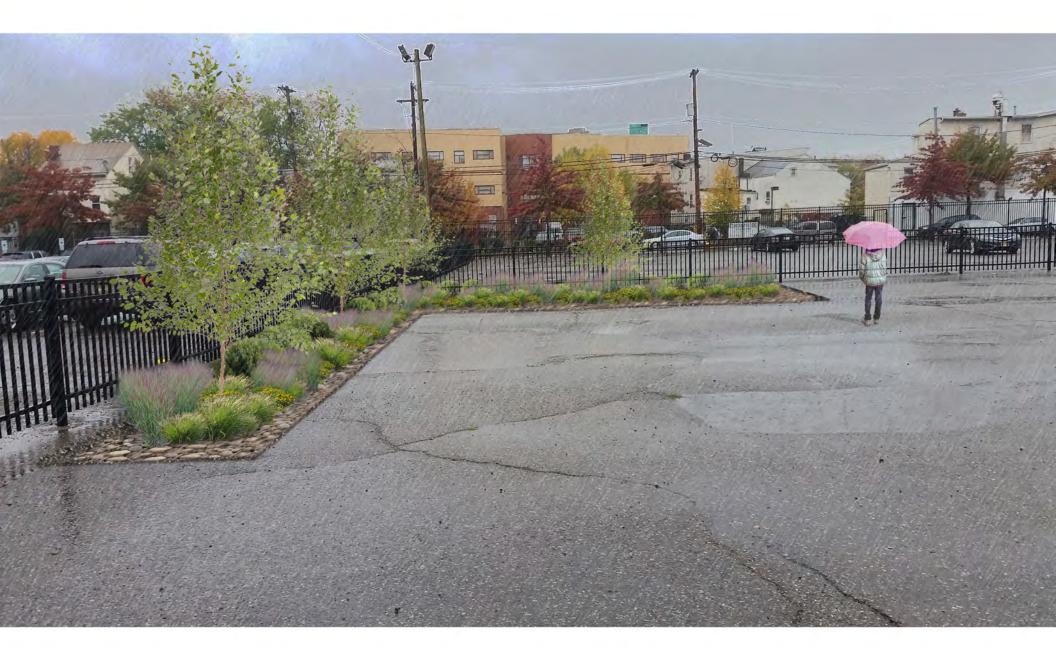
Site Photograph – Previous Condition

August 28, 2015



APPENDIX B:

Site Concept Plan



APPENDIX C:

Site Design Plan

PROJECT DESCRIPTION:

A BIORETENTION SYSTEM (RAIN GARDEN) WILL BE IMPLEMENTED TO CAPTURE, TREAT, AND INFILTRATE THE STORMWATER RUNOFF FROM THE IMPERVIOUS AREA LOCATED BEHIND THE MAIN SCHOOL BUILDING. A TOTAL OF NINE TREE PITS WILL ALSO BE PLACED ALONG THE PERIMETER OF THE AREA. ALONG THE SIDEWALK TO THE SOUTHEAST OF THE SCHOOL, THIRTEEN ADDITIONAL TREE PITS WILL BE INSTALLED.

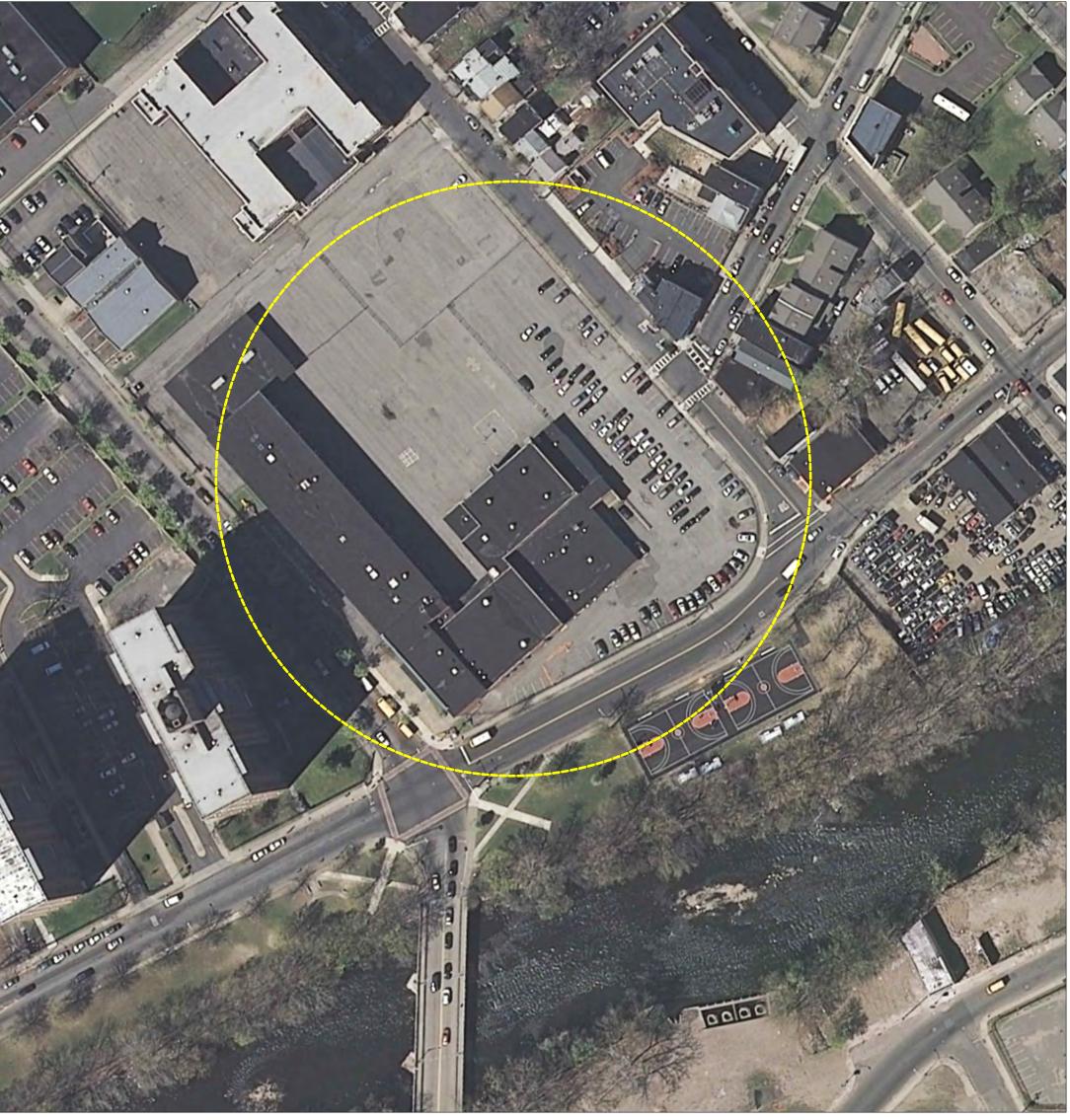
LIST OF DRAWINGS:

SHEET NAME	TITLE
COVER	COVER SHEET
P-1	EXISTING CONDITIONS AND DEMOLITION PLAN
P-2	PROPOSED SITE PLAN
P-3	PROPOSED SITE PLAN 2
P-4	PLANTING PLAN
DT-1	RAIN GARDEN DET AILS
DT-2	TREE PIT DETAILS
DT-3	PLANTING AND LANDSCAPING DETAILS
DT-4	SOIL EROSION AND SEDIMENT CONTROL PLAN



PUBLIC SCHOOL 28 PATERSON GREEN INFRASTRUCTURE 200 PRESIDENTIAL BLVD, PATERSON PASSAIC COUNTY, NEW JERSEY

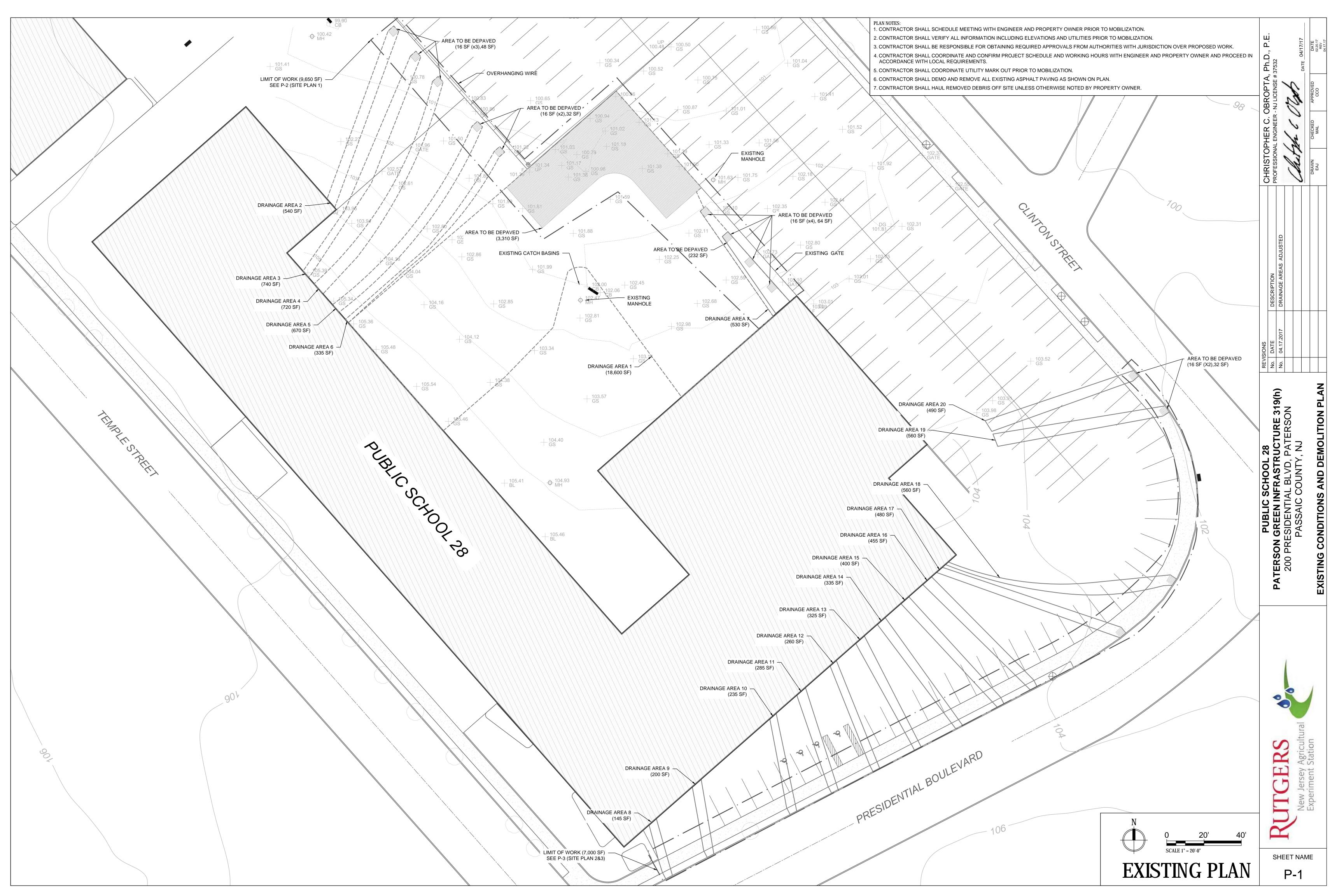
LOCATION MAP:

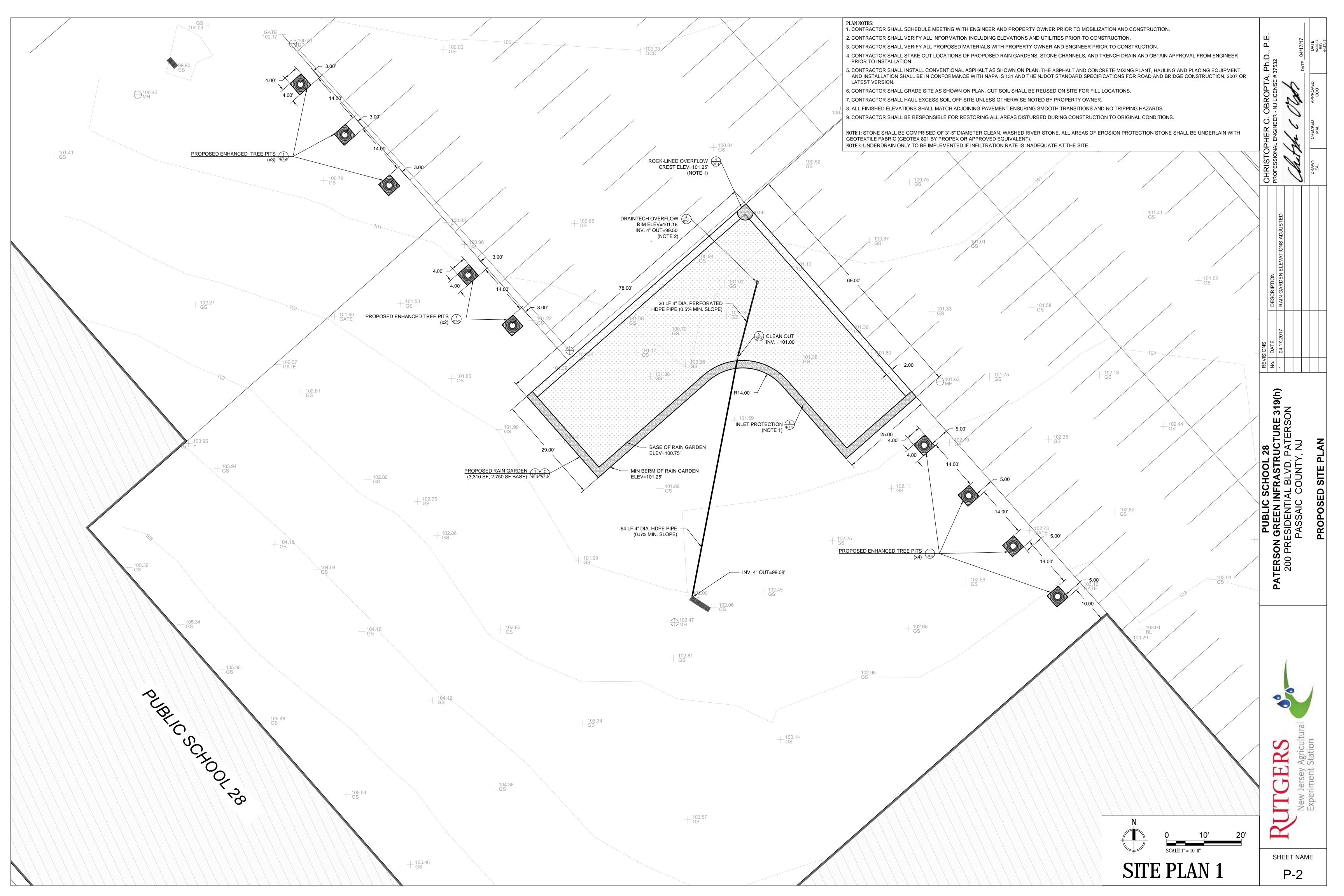


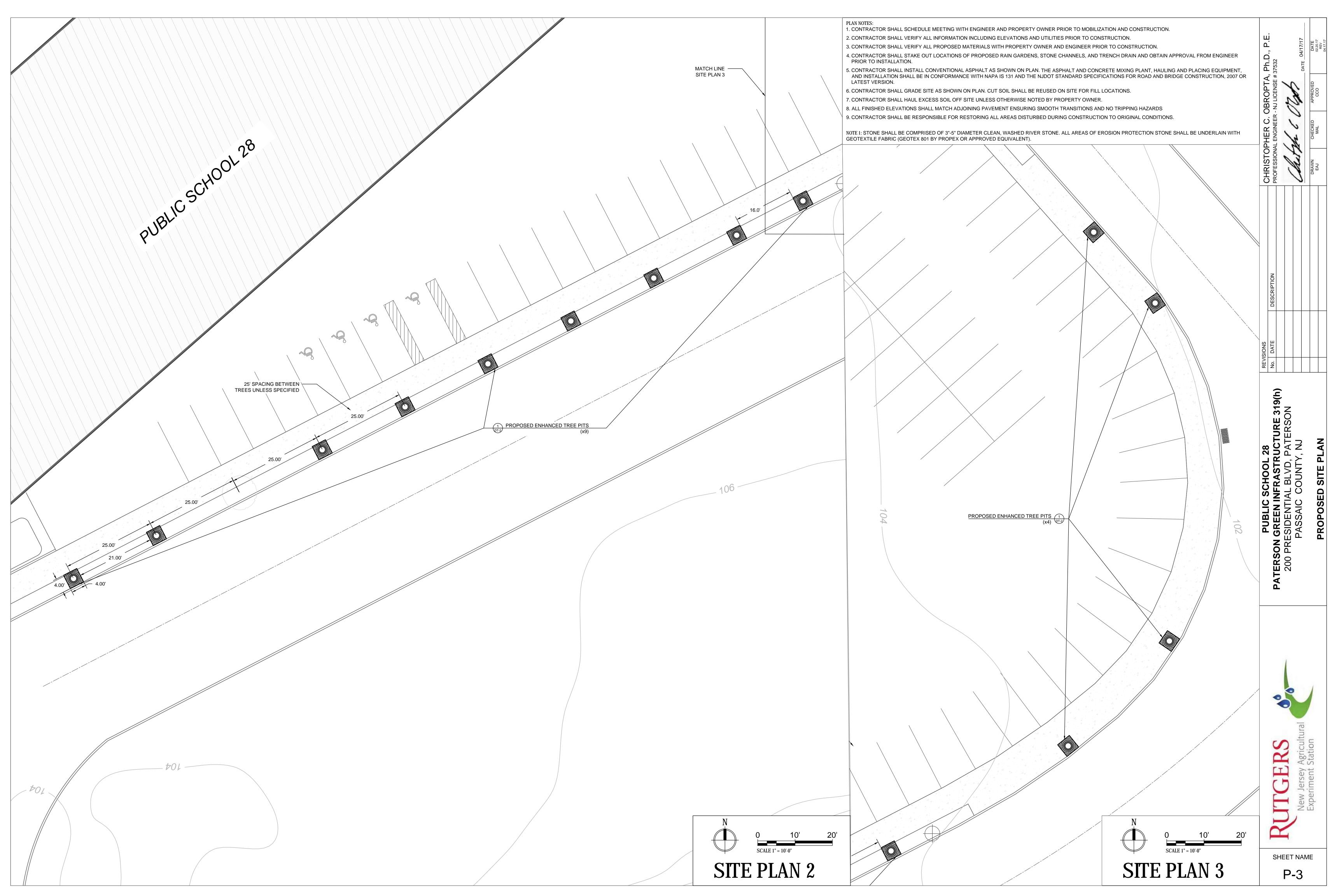
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si C	C L L L L L L L L L L L L L L L L L L L	•	PATERSON GREEN INER ASTRIICTURE 319(h)	No. DATE	DESCRIPTION	PROFESSI	PROFESSIONAL ENGINEER - NJ LICENSE # 37532	ULICENSE # 37532	·: - · · ·
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						10	41 10	1.5	
	Naw Jarcaw Agricultural		PASSAIC COUNTY. NJ			(Mr.	m c U	100	71/2//0
AM E F								DATE	
	Experiment Station	1				DRAWN	CHECKED	APPROVED	DATE 02 20 17
			COVER SHEET					0000	REV 04.17.17

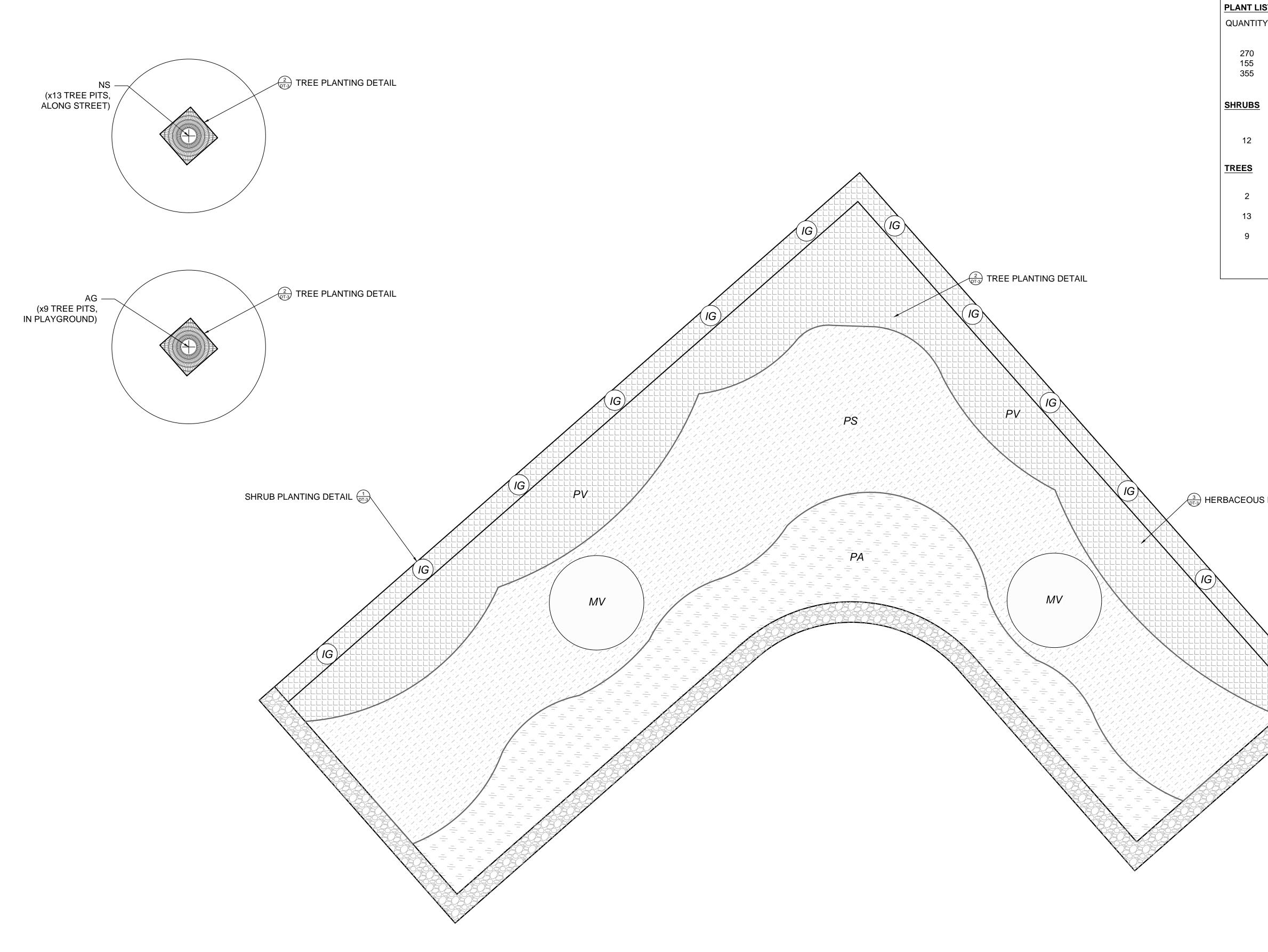
LEGEND:

	EXISTING FENCE
	EXISTING DRAINAGE AREA
	EXISTING TREELINE
	EXISTING TREE
	EXISTING CONTOURS
100	EXISTING CONTOURS SURVEYED
	EXISTING SPOT ELEVATIONS SPOT ELEVATION CODES: EP - EDGE OF PAVEMENT GS - GROUND SHOT UP - UTILITY POLE MH- MANHOLE
<u> </u>	EXISTING CENTERLINE
	EXISTING BUILDING
\bigcirc	EXISTING UTILITY POLE
	EXISTING CATCH BASIN
	EDGE OF PAVEMENT
	PROPOSED GREEN INFRASTRUCTURE

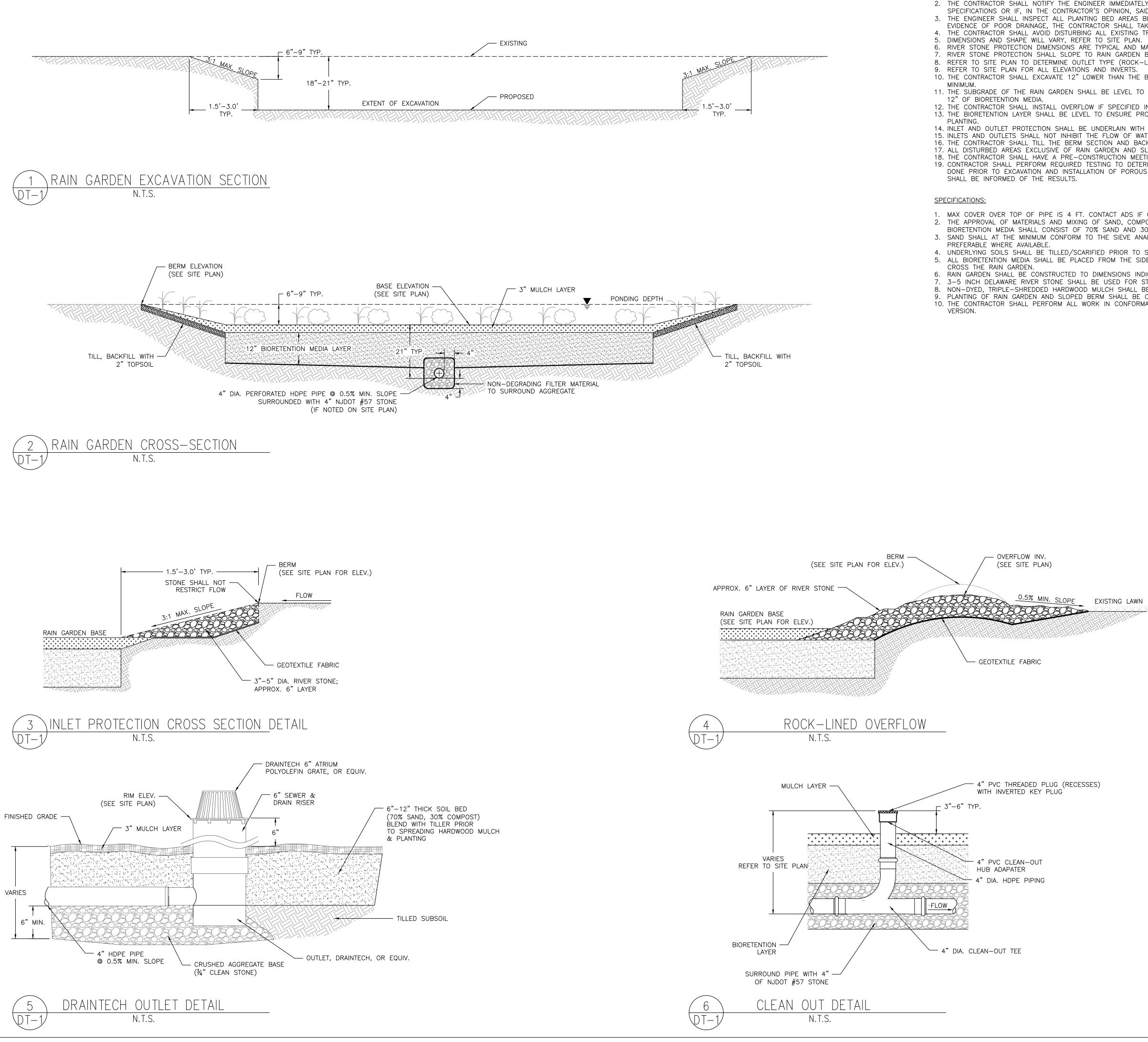








Y SIZE PLANT SPECIES LIST BOTANICAL NAME COMMON NAME 1 QUART PA Penisoun abpectroides 1 QUART PS Phice subulete 2-3' CAL. B&B NS Mysse syhatice 2-3' CAL. B&B NS Mysse syhatice AGE Amelanchier x grandillora SPLUG PLANTING DETAIL SPLUG PLANTING DETAIL					
	I <u>ST</u> TY SIZE	PLA	NT SPECIES LIST		0.E.
			BOTANICAL NAME		, <u>0</u>
	1 QUART	PA	Pennisetun alopecuroides	FOUNTAIN GRASS	A, Ph # 3753
	1 QUAR I	PS	Phlox subulata	CREEPING PHLOX	
		10	llaw Olah ra		
	#2 CONT.	IG	liex Glabia	INKBERRT HOLLT (SHAWRO	
	2-3" CAL. B&B	MV	Magnolia virginia	SWEET BAY MAGNOLIA	DRAWN EAJ
	2-3" CAL. B&B	NS	Nyssa sylvatica	MARSHALL BLACKGUM	
	2-3" CAL. B&B	AG	Amelanchier x grandiflora		ГЕМ)
New Jersey Agricultural Experiment Station	S PLUG PLANTING DETAIL				REVISIONS No. DATE 1 04.17.2017
N SCALE I" = 5'-0" SCALE I" = 5'-0" SHEET NAME	IG IG				PUBLIC SCHOOL 28 PATERSON GREEN INFRASTRUCTURE 31 200 PRESIDENTIAL BLVD, PATERSON PASSAIC COUNTY, NJ PLANTING PLAN
SHEET NAME					CUTGER New Jersey Agri Experiment Stati
				SCALE 1" = 5'-0"	SHEET NAME
			P	LANTING PLA	



CONSTRUCTION NOTES:

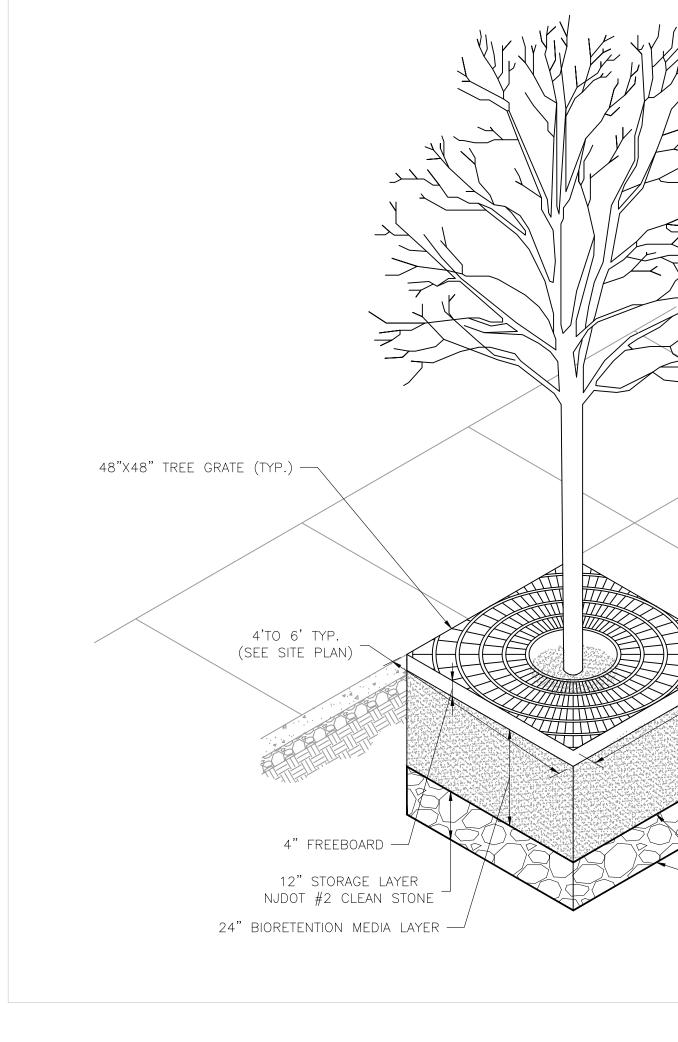
- 1. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOF
- SPECIFICATIONS OR IF, IN THE CONTRACTOR'S OPINION,

- DIMENSIONS AND SHAPE WILL VARY, REFER TO SITE PL
- 7. RIVER STONE PROTECTION SHALL SLOPE TO RAIN GARDE
- 9. REFER TO SITE PLAN FOR ALL ELEVATIONS AND INVERTS
- 11. THE SUBGRADE OF THE RAIN GARDEN SHALL BE LEVEL
- 12. THE CONTRACTOR SHALL INSTALL OVERFLOW IF SPECIFIE
- 13. THE BIORETENTION LAYER SHALL BE LEVEL TO ENSURE
- 15. INLETS AND OUTLETS SHALL NOT INHIBIT THE FLOW OF
- 16. THE CONTRACTOR SHALL TILL THE BERM SECTION AND 17. ALL DISTURBED AREAS EXCLUSIVE OF RAIN GARDEN AND
- 18. THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION M 19. CONTRACTOR SHALL PERFORM REQUIRED TESTING TO DE DONE PRIOR TO EXCAVATION AND INSTALLATION OF PORC

- BIORETENTION MEDIA SHALL CONSIST OF 70% SAND AND
- 4. UNDERLYING SOILS SHALL BE TILLED/SCARIFIED PRIOR 5. ALL BIORETENTION MEDIA SHALL BE PLACED FROM THE
- 6. RAIN GARDEN SHALL BE CONSTRUCTED TO DIMENSIONS
- 7. 3-5 INCH DELAWARE RIVER STONE SHALL BE USED FO
- 9. PLANTING OF RAIN GARDEN AND SLOPED BERM SHALL

ETO EXCAVATION INCLUDING ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES. ELEV F ANY RELD CONTINUES DEFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE ELEV F ANY RELD CONTINUES DEFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE ELEV F ANY RELD CONTINUES DEFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE SECTORE MULCINON TO INJURY THAT ZABOUATE DRAWAGE EXISTS. IF ANY AREAS TO BE MULCHED SHOW TAKE CORRECTIVE ACTION UNCENT THAT ZABOUATE DRAWAGE EXISTS. IF ANY AREAS TO BE MULCHED SHOW TAKE CORRECTIVE ACTION TO THE STORES OF THE READS OF THE RAIN GARDEN SHALL BE AT A 3:1 TO ENSURE PROPER DRAWAGE. CONTRACTOR SHALL OFTAN EXCHAPTION TO BACKFILLING WITH D IN SITE PLANS PRIOR TO BACKFILLING WITH BIORETENTION MEDIA. PROCEED DRAWAGE. CONTRACTOR SHALL OFTAN ENGINEER AFFROVAL PRIOR TO BACKFILLING WITH D IN SITE PLANS PRIOR TO BACKFILLING WITH BIORETENTION MEDIA. PROCEED DRAWAGE. CONTRACTOR SHALL DE PLACED BELOW THE BOTTOM OF THE PIPE. BACKFILL WITH TOFSOL. EXCIDENTLE FABRIC. WITH THE PROJECT ENGINEER SHALL BE PLACED BELOW THE BOTTOM OF THE PIPE. BACKFILL WITH TOFSOL. ETONE WITH THE PROJECT ENGINEER THE SUPERVISION OF THE PROJECT ENGINEER/LANDSCAPE ARCHITECT. JOB STATE PROM TO BACKFILLING CONTRACTOR. ETONE OFTAME CONTRACT CONTRACTOR SPICE TO SHALL DE PROJECT ENGINEER/LANDSCAPE ARCHITECT. JOB STATE DO SOL SHALL BE DONE UNDER THE SUPERVISION OF THE PROJECT ENGINEER/LANDSCAPE ARCHITECT. JOB STATE DONE SHALL DE EDONE UNDER THE SUPERVISION OF THE PROJECT ENGINEER/LANDSCAPE ARCHITECT. JOB COMPOSET MIXTURE. MAINTISS FOR CONCRETE AGGREGATE SAND (ASIM C-33). USGA TEE/GREEN SIEVE GRADATION MIX IS O SPREADING/MIXING OF BIORETENTION MEDIA. STONE CHANNEL AND IN NO EVENT SHALL ANY TRACKED OR WHEELED EQUIPMENT BE PERMITTED TO NUCRETED ON THE SITE PLAN. STONE CHANNEL AND IN NO EVENT SHALL ANY TRACKED OR WHEELED EQUIPMENT BE PERMITTED TO NUCRETED AS INDICATED ON THE SITE PLAN. STONE CHANNEL AND INDEXTED STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LAT
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IELY IF ANY FIELD CONDITIONS DIFFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE DESIGNS SHOWN HEREON. Image: Control of the designs shown hereon. S BEFORE MULCHING TO INSURE THAT ADEQUATE DRAINAGE EXISTS. IF ANY AREAS TO BE MULCHED SHOW TAKE CORRECTIVE ACTION. Image: Control of the designs shown hereon. S BEFORE MULCHING TO INSURE THAT ADEQUATE DRAINAGE EXISTS. IF ANY AREAS TO BE MULCHED SHOW TAKE CORRECTIVE ACTION. Image: Control of the designs shown hereon. N. ANY VARY PER SITE. CONSULT THE ENGINEER AND SITE PLAN FOR DIMENSIONS ON A PER SITE BASIS. Image: Control of the engineer and site plan for dimensions on a per site basis. N. ANY VARY PER SITE. CONSULT THE ENGINEER AND SITE PLAN FOR DIMENSIONS ON A PER SITE BASIS. Image: Control of ackfulling with BIORETENTION MEDIA. PROPER DRAINAGE. CONTRACTOR SHALL OBTAIN ENGINEER APPROVAL PRIOR TO BACKFULLING WITH DISTURBANCE. CONTRACTOR SHALL BE PLACED BELOW THE BOTTOM OF THE PIPE. Image: Contractor Shall obtain engineer APPROVAL PRIOR TO SPREADING MULCH AND THE STREET. THE REVER STORE SHALL BE PLACED BELOW THE BOTTOM OF THE PIPE. SACKFLL WITH TOPSOIL. SLOPED BERM SHALL BE RESTORED TO ORIGINAL CONDITIONS BY CONTRACTOR. ETIMO WITH THE PROJECT ENGINEER PRIOR TO ANY WORK ON SITE. Image: Contractor Shall be present During TESTING SHALL BE DISTING AND AND NEIDE. IF OTHERWISE GREATER. MPOSET MATURE. Image: Contractor Shall BE DONE UNDER THE SUPERVISION OF THE PROJECT ENGINEER/LANDSCAPE ARCHITECT. IF OTHERWISE GREATER. MPOSET MATURE.
TELY IF ANY FIELD CONDITIONS DIFFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE SAID CONDITIONS CONFLICT WITH THE DESIGNS SHOWN HEREON. S BEFORE MULCHING TO INSURE THAT ADEQUATE DRAINAGE EXISTS. IF ANY AREAS TO BE MULCHED SHOW TAKE CORRECTIVE ACTION. S TREES. ANY DISTURBANCE TO TREES OR TREE ROOTS MUST BE COORDINATED WITH THE PROPERTY OWNER. N. MAY VARY PER SITE. CONSULT THE ENGINEER AND SITE PLAN FOR DIMENSIONS ON A PER SITE BASIS. N BASE. K-LINED OVERFLOW OR DRAINTECH RISER). E BASE ELEVATION SHOWN ON THE SITE PLANS. THE SLOPES OF THE RAIN GARDEN SHALL BE AT A 3:1 TO ENSURE PROPER DRAINAGE. CONTRACTOR SHALL OBTAIN ENGINEER APPROVAL PRIOR TO BACKFILLING WITH D IN SITE PLANS PRIOR TO BACKFILLING WITH BIORETENTION MEDIA. PROPER DRAINAGE. CONTRACTOR SHALL OBTAIN ENGINEER APPROVAL PRIOR TO SPREADING MULCH AND

σ TERSON C. N N -AIL ٦ TRI U PUBLIC SCHOOL TERSON GREEN INFRASTF 200 PRESIDENTIAL BLVD, PASSAIC COUNTY D GARDEN RAIN ⊢ 4 Δ • RS A S TGE. -r SHEET NAME DT-1





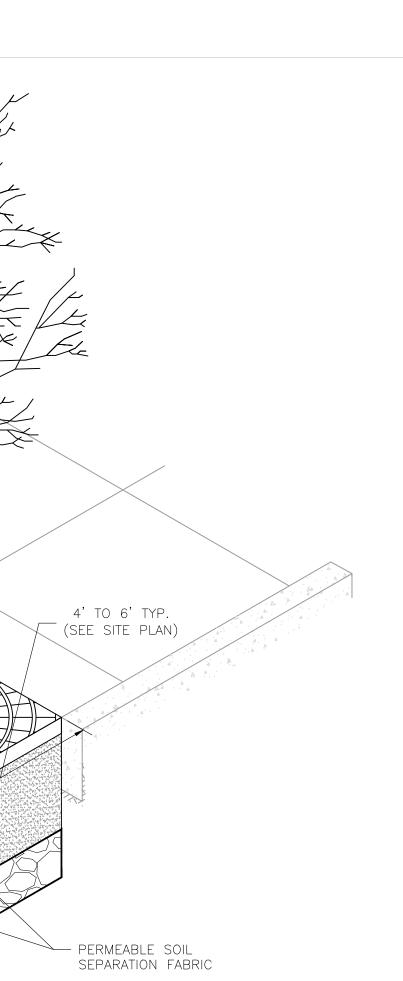
CONSTRUCTION NOTES:

- HEREON.
- CONTRACTOR SHALL NOTIFY THE ENGINEER.
- MATERIALS. PAVEMENT.
- CONSTRUCTION BEGINS.

- PERIMETER SHALL BE LINED WITH GEOTEXTILE FABRIC.
- BEDS.
- LATEST VERSION. REFER TO SHEET DT-3 FOR PERVIOUS CONCRETE.

SPECIFICATIONS:

- DIMENSIONS FOR ENHANCED TREE PITS.
- 4. REFER TO DT-3 FOR PERVIOUS CONCRETE DETAILS.



1. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO EXCAVATION INCLUDING ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES. 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS DIFFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE SPECIFICATIONS OR IF, IN THE CONTRACTOR'S OPINION, SAID CONDITIONS CONFLICT WITH THE DESIGNS SHOWN

3. THE ENGINEER SHALL INSPECT ALL PLANTING BED AREAS BEFORE PLANTING TO INSURE THAT ADEQUATE DRAINAGE EXISTS. IF ANY AREAS TO BE PLANTED SHOW EVIDENCE OF POOR DRAINAGE, THE CONTRACTOR SHALL TAKE CORRECTIVE ACTION. 4. THE CONTRACTOR SHALL HAVE ALL UTILITIES MARKED BEFORE ANY EXCAVATION. IF ANY UTILITIES INTERFERE WITH THE PROJECT, THE

5. THE ENTIRE CONTINUOUS TREE PIT AND/OR ENHANCED TREE PIT SHALL BE EXCAVATED, THE CONTRACTOR SHALL DISPOSE OF ANY EXCESS 4. THE CONTRACTOR SHALL AVOID OVER COMPACTING THE EXISTING MATERIALS IN ORDER TO AVOID POOR INFILTRATION OR SHORT LIFETIME OF

5. THE CONTRACTOR SHALL ESTABLISH ALL ELEVATIONS AND LINES AS SHOWN IN THE SITE PLAN FOR REVIEW BY THE ENGINEER BEFORE ANY

6. THE CONTRACTOR SHALL VERIFY THAT THE SUBGRADE IS CONSISTENT WITH LINE, GRADE, AND ELEVATIONS AS INDICATED IN THE SITE PLAN. ANY AREAS SHOWING EROSION OR POTENTIAL PONDING SHALL BE REGRADED BEFORE SUBBASE INSTALLATION. 7. IMMEDIATELY AFTER THE SUBGRADE IS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL BEGIN SUBBASE CONSTRUCTION WHICH INCLUDES ALL MATERIALS BELOW THE PAVEMENT AND ABOVE THE EXISTING SUBGRADE. 8. THE CONTRACTOR SHALL PLACE GEOTEXTILE FABRIC IN CONFORMANCE WITH MANUFACTURER'S STANDARDS. ALL ADJACENT FABRIC SHALL BE OVERLAPPED BY AT LEAST 16 INCHES. THE FABRIC SHALL BE SECURED AT LEAST FOUR FEET OUTSIDE OF THE EXCAVATED BASE. THE ENTIRE PIT

10. THE STORAGE LAYER (NJDOT #2) SHALL BE INSTALLED EVENLY OVER THE EXISTING SUBBGRADE AND PERMEABLE FABRIC. STORAGE LAYER AGGREGATE SHALL BE INSTALLED TO A MAXIMUM OF 95% STANDARD PROCTOR COMPACTION. PERMEABLE SOIL SEPARATION FABRIC SHALL BE INSTALLED ON TOP OF STORAGE LAYER PRIOR TO INSTALLING BIORETENTION MEDIA.

11. THE BIORETENTION MEDIA LAYER SHALL BE INSTALLED EVENLY OVER THE STORAGE LAYER AND FABRIC. 12. THE INFILTRATION RATE SHALL BE AT LEAST 5-30 FT/DAY OR 50 % OF THE HYDRAULIC CONDUCTIVITY (D2434).

14. AFTER SUBBASE AGGREGATE INSTALLATION THE GEOTEXTILE FABRIC SHALL BE FOLDED BACK ALONG ALL BED EDGES. THE FABRIC SHALL REMAIN SECURE UNTIL ADJACENT SOILS ESTABLISH VEGETATION. ANY NECESSARY MEASURES SHALL BE TAKEN TO PREVENT SEDIMENT FROM WASHING INTO 15. CONCRETE SHALL BE INSTALLED IN CONFORMANCE WITH NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR

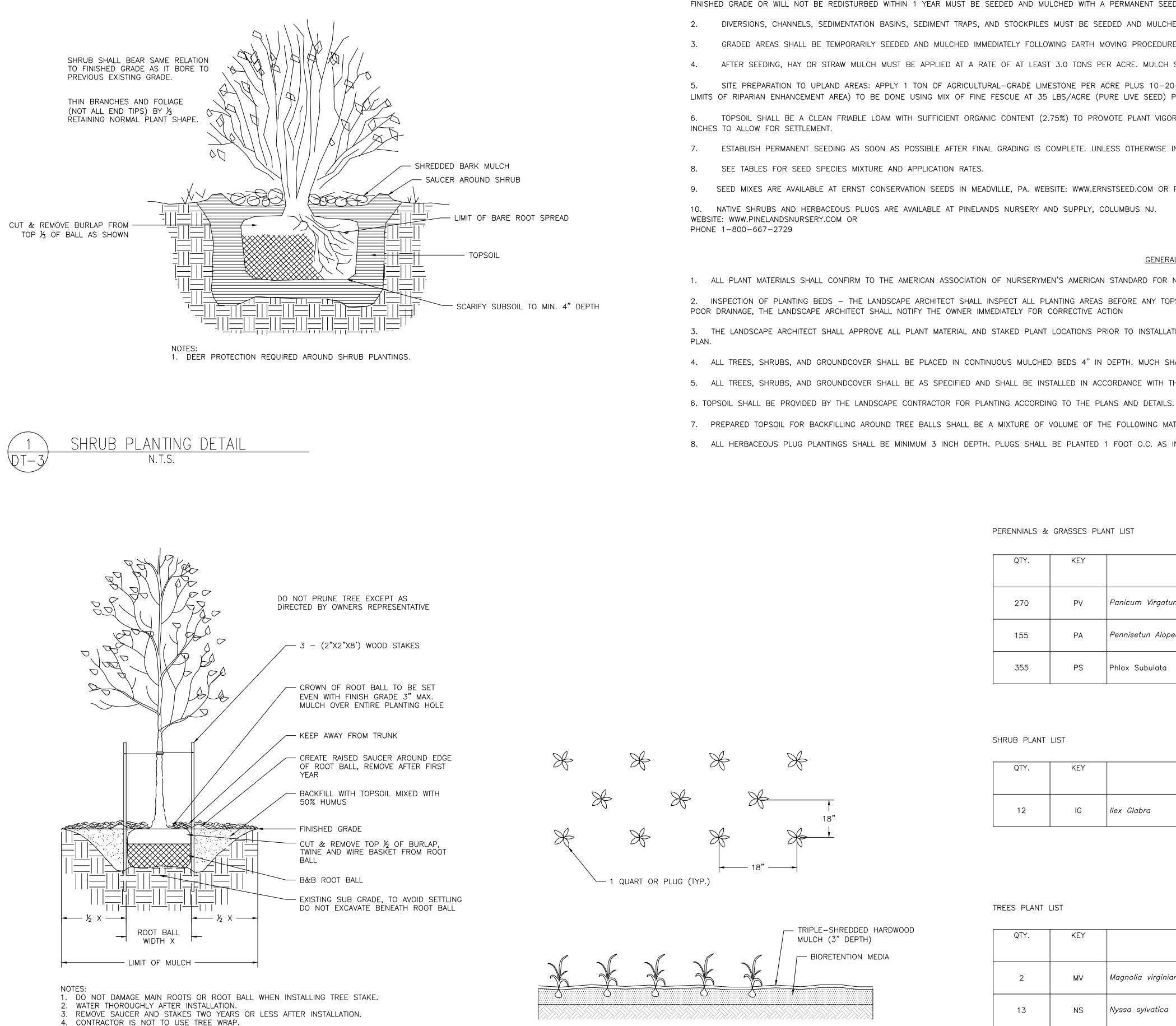
1. THE TREE GATES SHALL BE THE RETROFIT COLLECTION GRATES (R-9002) FROM NEENAH FOUNDRY. GRATES SHALL BE 48" ON EACH SIDE WITH A 16" DIAMETER EXPANDABLE TREE OPENING OR APPROVED ALTERNATIVE FOR CONTINUOUS TREE PIT. FOR ENHANCED TREE PIT THE GRATE SHALL BE 48" – 72" ON EACH SIDE WITH A 16" DIAMETER EXPANDABLE TREE OPENING OR APPROVED ALTERNATIVE. SEE SITE PLAN FOR GRATE

2. THE BIORETENTION LAYER SHALL BE COMPRISED OF 70% SAND AND 30% COMPOST MIXTURE. 3. THE COURSE STORAGE LAYER IN DETAIL 1 SHALL BE COMPRISED OF NJDOT #2 WASHED STONE. THE LAYER SHALL BE COMPACTED MULTIPLE TIMES. ALL OTHER STORAGE LAYERS SHALL BE COMPRISED OF NJDOT #57 WASHED STONE.

PUBLIC SCHOOL 28	REVISIONS			
	No. DATE	DESCRIPTION	PROFESSIONAL ENGINEER - N.I.I.ICENSE # 37532	
AIERSON GREEN INFRASIRUCIURE SIS(II)	1 04.17.2017	7 FREEBOARD ADDED TO TREE PIT DETAIL		1
200 PRESIDENTIAL BLVD, PATERSON			11/1/11/11	
PASSAIC COUNTY, NJ			(Anthe c U Cal	~~~~~
			DA	DATE 04/11/11
			DRAWN CHECKED APPROVED	DATE
TREE PIT DETAILS			MAL	REV 04.17.17



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VDT-

OPEN LAWN AND TURF AREAS

1. SEED ALL REMAINING PARK AREAS WITH TURF TYPE FALL FESCUE AND PERENNIAL RYEGRASS BLEND (LOFTS - SUMMER STRESS MIX II OR APPROVED EQUIVALENT). INSTALL AT A RATE OF 350 LBS. PER ACRE PER MANUFACTURERS SPECIFICATIONS.

TOPSOILING, SEEDING AND MULCHING NOTES

1. ANY UNDISTURBED AREA ON WHICH ACTIVITY HAS CEASED AND WHICH WILL REMAIN EXPOSED FOR MORE THAN 10 DAYS MUST BE SEEDED AND MULCHED IMMEDIATELY. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE REQUIRED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE REDISTURBED WITHIN 1 YEAR SHALL BE SEEDED AND MULCHED WITH A QUICK GROWING TEMPORARY SEEDING MIXTURE AND MULCH. DISTURBED AREAS WHICH ARE EITHER AT FINISHED GRADE OR WILL NOT BE REDISTURBED WITHIN 1 YEAR MUST BE SEEDED AND MULCHED WITH A PERMANENT SEED MIXTURE AND MULCH.

2. DIVERSIONS, CHANNELS, SEDIMENTATION BASINS, SEDIMENT TRAPS, AND STOCKPILES MUST BE SEEDED AND MULCHED IMMEDIATELY.

3. GRADED AREAS SHALL BE TEMPORARILY SEEDED AND MULCHED IMMEDIATELY FOLLOWING EARTH MOVING PROCEDURES. TEMPORARY SEED SHALL BE ANNUAL RYE GRASS APPLIED AT A RATE OF 3 LBS. PER 1000 SQ. FT.

4. AFTER SEEDING, HAY OR STRAW MULCH MUST BE APPLIED AT A RATE OF AT LEAST 3.0 TONS PER ACRE. MULCH SHALL BE ANCHORED BY EITHER CRIMPING WITH A COULTER IMPLEMENT, OR BY STAPLING BIODEGRADABLE NETTING TO THE SURFACE.

5. SITE PREPARATION TO UPLAND AREAS: APPLY 1 TON OF AGRICULTURAL-GRADE LIMESTONE PER ACRE PLUS 10-20-10 FERTILIZER AT THE RATE OF 500 LB. PER ACRE. WORK IN WHERE POSSIBLE. SEEDING OF DISTURBED UPLAND AREAS (BEYOND LIMITS OF RIPARIAN ENHANCEMENT AREA) TO BE DONE USING MIX OF FINE FESCUE AT 35 LBS/ACRE (PURE LIVE SEED) PLUS PERENNIAL RYEGRASS AT 15 LBS/ACRE (PURE LIVE SEED).

6. TOPSOIL SHALL BE A CLEAN FRIABLE LOAM WITH SUFFICIENT ORGANIC CONTENT (2.75%) TO PROMOTE PLANT VIGOR. AMENDMENTS SHALL BE ADDED AS NEEDED TO IMPROVE DEFICIENT SOILS. TOPSOIL SHALL BE RETURNED AT A LOOSE DEPTH OF FIVE

7. ESTABLISH PERMANENT SEEDING AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETE. UNLESS OTHERWISE INDICATED, PERMANENT SEEDING SHALL BE SEED MIXTURE SPECIFIED IN TABLE.

8. SEE TABLES FOR SEED SPECIES MIXTURE AND APPLICATION RATES.

9. SEED MIXES ARE AVAILABLE AT ERNST CONSERVATION SEEDS IN MEADVILLE, PA. WEBSITE: WWW.ERNSTSEED.COM OR PHONE: 1-800-873-3321.

10. NATIVE SHRUBS AND HERBACEOUS PLUGS ARE AVAILABLE AT PINELANDS NURSERY AND SUPPLY, COLUMBUS NJ.

GENERAL LANDSCAPING NOTES

1. ALL PLANT MATERIALS SHALL CONFIRM TO THE AMERICAN ASSOCIATION OF NURSERYMEN'S AMERICAN STANDARD FOR NURSERY STOCK (LATEST EDITION) 2. INSPECTION OF PLANTING BEDS - THE LANDSCAPE ARCHITECT SHALL INSPECT ALL PLANTING AREAS BEFORE ANY TOPSOILING OR PLANTING IS BEGUN TO INSURE THAT ADEQUATE DRAINAGE EXISTS. IF ANY AREAS TO BE LANDSCAPED SHOW EVIDENCE OF POOR DRAINAGE, THE LANDSCAPE ARCHITECT SHALL NOTIFY THE OWNER IMMEDIATELY FOR CORRECTIVE ACTION

3. THE LANDSCAPE ARCHITECT SHALL APPROVE ALL PLANT MATERIAL AND STAKED PLANT LOCATIONS PRIOR TO INSTALLATION. ALL HERBACEOUS PLUG PLANTINGS SHALL BE A MINIMUM 3 INCH DEPTH. PLUGS SHALL BE PLANTED 1 FOOT O.C. AS INDICATED ON

4. ALL TREES, SHRUBS, AND GROUNDCOVER SHALL BE PLACED IN CONTINUOUS MULCHED BEDS 4" IN DEPTH. MUCH SHALL BE TRIPLE SHREDDED HARDWOOD.

5. ALL TREES, SHRUBS, AND GROUNDCOVER SHALL BE AS SPECIFIED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS AND COMMENTS NOTED ON THE DRAWINGS.

7. PREPARED TOPSOIL FOR BACKFILLING AROUND TREE BALLS SHALL BE A MIXTURE OF VOLUME OF THE FOLLOWING MATERIALS IN QUANTITIES SPECIFIED: ½ COMPOST, ½ TOPSOIL

8. ALL HERBACEOUS PLUG PLANTINGS SHALL BE MINIMUM 3 INCH DEPTH. PLUGS SHALL BE PLANTED 1 FOOT O.C. AS INDICATED ON PLAN.

PERENNIALS & GRASSES PLANT LIST

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
270	PV	Panicum Virgatum	SWITCHGRASS	QUART
155	PA	Pennisetun Alopecuroides	FOUNTAIN GRASS	QUART
355	PS	Phlox Subulata	CREEPING PHLOX	QUART

SHRUB PLANT LIST

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
12	IG	llex Glabra	SHAMROCK	3 GAL.

TREES PLANT LIST

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE
2	MV	Magnolia virginiana	SWEET BAY MAGNOLIA	2-3" CAL. BAGGED & BURLAPPED
13	NS	Nyssa sylvatica	MARSHALL BLACKGUM	2-3" CAL. BAGGED & BURLAPPED
9	AG	Amelanchier x grandiflora	AUTUMN BRILIANCE SERVICEBERRY (SINGLE-STEM)	2–3" CAL. BAGGED & BURLAPPED

HERBACEOUS PLUG PLANTING DETAIL N.T.S.

PLANTING SCHEDULE

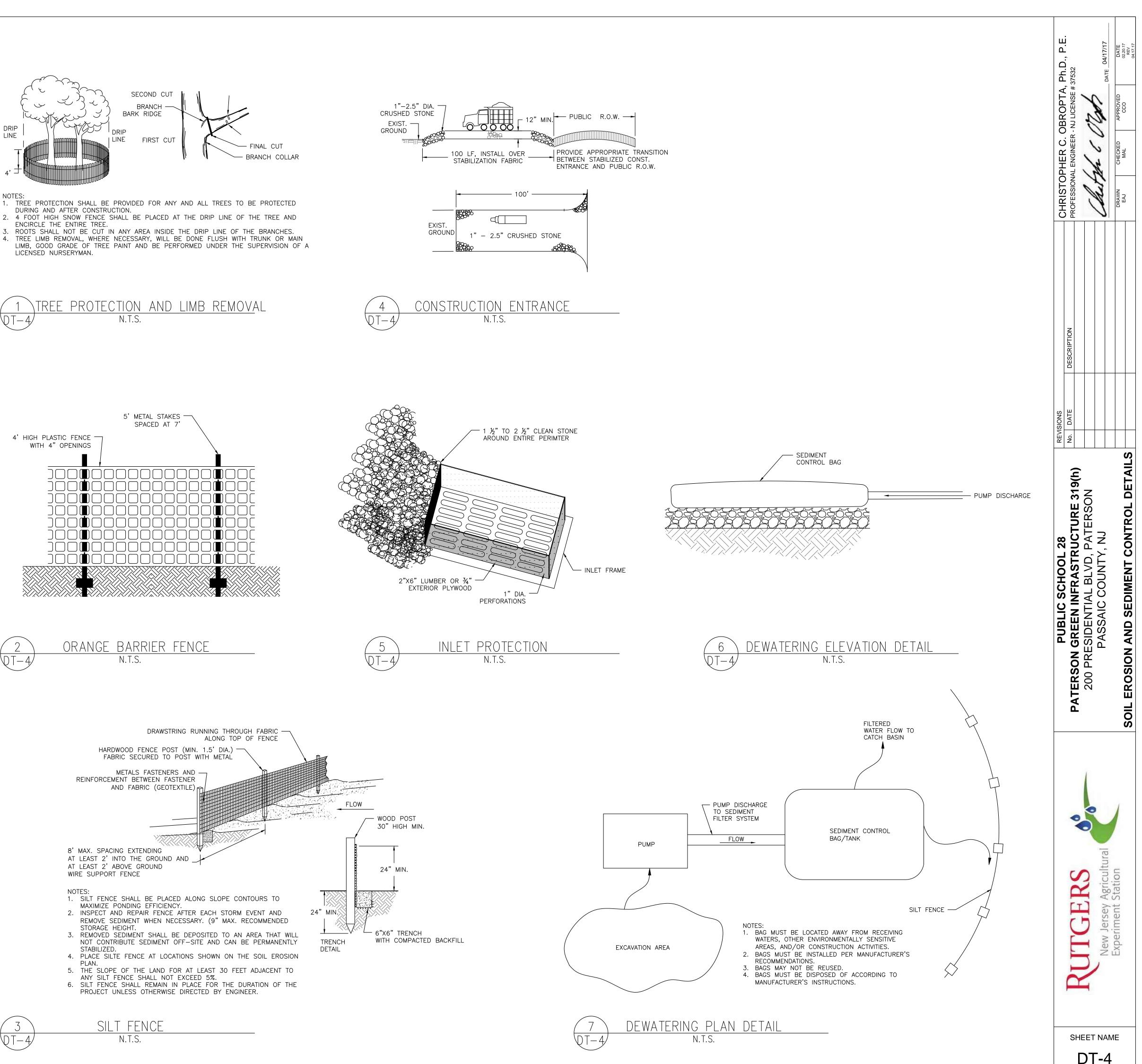
CHRISTOPHER C. OBROPTA Ph.D. P.F.	PROFESSIONAL ENGINEER - N.I.I.ICENSE # 37532		11/1/11/1	Marter & UNI	DATE UNITION	D	
	DESCRIPTION	7 PLANTING SCHEDULE REVISED					
REVISIONS	No. DATE	1 04.17.2017					
PUBLIC SCHOOL 28		PALERSON GREEN INFRASTRUCTURE STRUCT	200 PRESIDENTIAL BLVD, PATERSON	PASSAIC COUNTY, NJ			PLANTING AND LANDSCAPE DETAILS
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SOIL EROSION AND SEDIMENT CONTROL NOTES

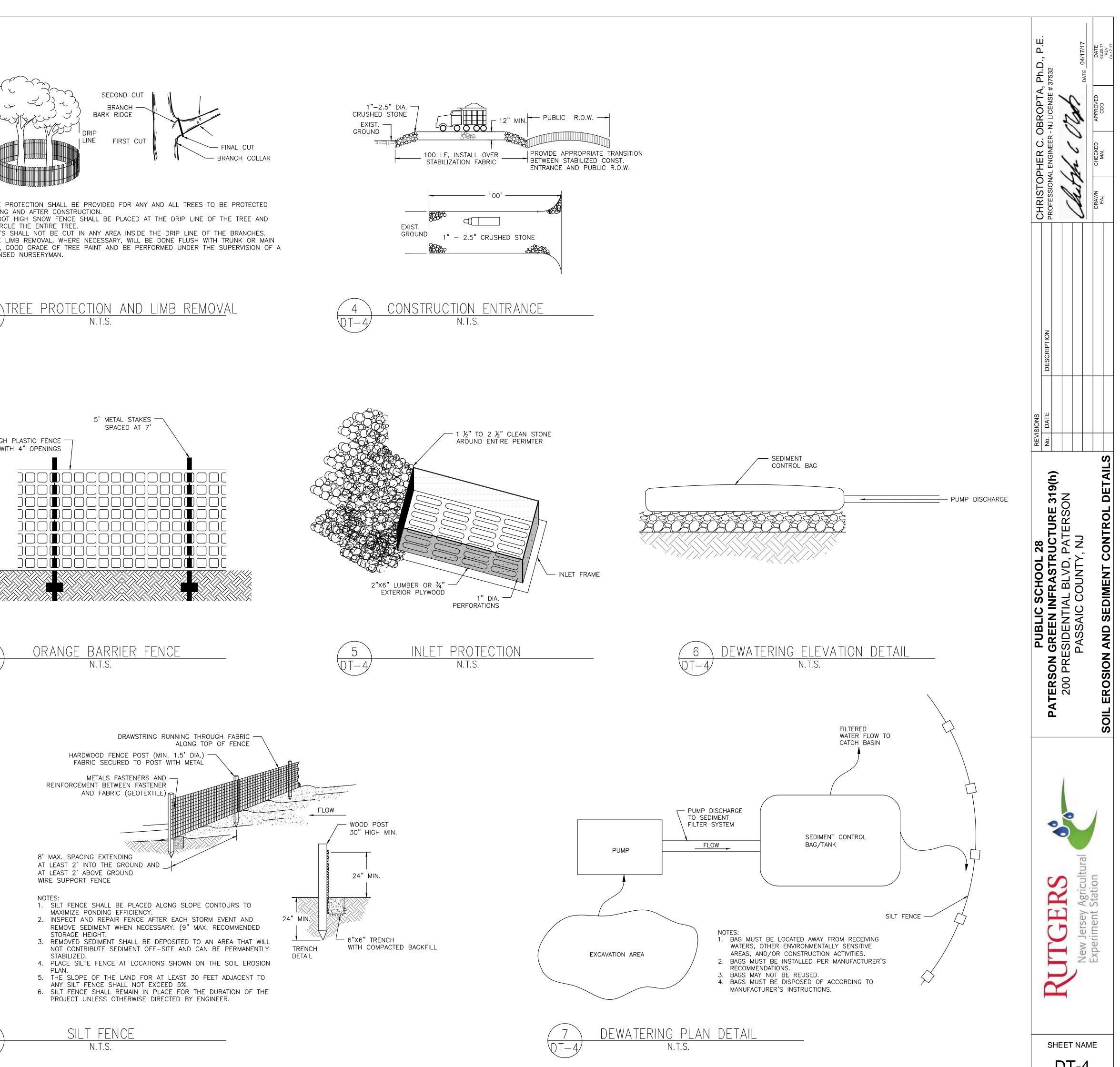
Hudson Essex Passaic Soil Conservation District

- 1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL" 7TH EDITION LAST REVISED JANUARY 2014. THESE MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- 2. ALL SOIL TO BE EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, WILL BE TEMPORARILY SEEDED AND HAY MULCHED OR OTHERWISE PROVIDED WITH VEGETATIVE COVER. THIS TEMPORARY COVER SHALL BE MAINTAINED UNTIL SUCH TIME WHEREBY PERMANENT DESTABILIZATION IS ESTABLISHED.
- 3. SEEDING DATES: THE FOLLOWING SEEDING DATES ARE BEST RECOMMENDED TO ESTABLISH PERMANENT VEGETATIVE COVER WITHIN MOST LOCATIONS IN THE HEPSCD: SPRING - 3/1-5/15 AND FALL - 8/15-10/1
- 4. SEDIMENT FENCES ARE TO BE PROPERLY TRENCHED AND MAINTAINED UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
- 5. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS, AND PROTECTION SHALL REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL
- 6. MULCH MATERIALS SHALL BE UN-ROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET AND ANCHORED WITH A MULCH ANCHORING TOOL, LIQUID MULCH BINDERS, OR NETTING TIE DOWN. OTHER SUITABLE MATERIALS MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
- 7. ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.
- 8. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT WILL BE NOTIFIED IN WRITING AT LEAST 48 HOURS PRIOR TO ANY SOIL DISTURBING ACTIVITIES. FAX – (862) 333–4507 OR EMAIL – INFORMATION@HEPSCD.ORG
- 9. THE APPLICANT MUST OBTAIN A DISTRICT ISSUED REPORT-OF-COMPLIANCE PRIOR TO APPLYING FOR THE CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY FROM THE RESPECTIVE MUNICIPALITY, NJ - DCA OR ANY OTHER CONTROLLING AGENCY. CONTACT THE DISTRICT AT 862-333-4505 TO REQUEST A FINAL INSPECTION, GIVING ADVANCED NOTICE UPON COMPLETION OF THE RESTABILIZATION MEASURES. A PERFORMANCE DEPOSIT MAY BE POSTED WITH THE DISTRICT WHEN WINTER WEATHER OR SNOW COVER PROHIBITS THE PROPER APPLICATION OF SEED, MULCH, FERTILIZER OR HYDRO-SEED.
- 10. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. DO NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ROADS UNLESS THE RUNOFF IS DIRECTED TO A PROPERLY DESIGNED AND FUNCTIONING SEDIMENT BASIN. WATER PUMPED OUT OF THE EXCAVATED AREAS CONTAINS SEDIMENTS THAT MUST BE REMOVED PRIOR TO DISCHARGING TO RECEIVING BODIES OF WATER USING REMOVABLE PUMPING STATIONS, SUMP PITS, PORTABLE SEDIMENTATION TANKS AND/OR SILT CONTROL BAGS.
- 11. ALL SURFACES HAVING LAWNS OR LANDSCAPING AS FINAL COVER ARE TO BE PROVIDED TOPSOIL PRIOR TO RE-SEEDING, SODDING OR PLANTING. A DEPTH OF 5 INCHES (UNSETTLED) IS RECOMMENDED.
- 12. ALL PLAN REVISIONS MUST BE SUBMITTED TO THE DISTRICT FOR PROPER REVIEW AND APPROVAL.
- 13. A CRUSHED STONE WHEEL CLEANING TRACKING-PAD IS TO BE INSTALLED AT ALL SITE EXITS USING 2 $\frac{1}{2}$ -1" CRUSHED ANGULAR STONE (ASTM 2 OR 3) TO A MINIMUM LENGTH OF 50 FEET AND MINIMUM DEPTH OF 6". ALL DRIVEWAYS MUST BE PROVIDED WITH CRUSHED STONE UNTIL PAVING IS COMPLETE.
- 14. STEEP SLOPES INCURRING DISTURBANCE MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER AND BE APPROVED BY THE SOIL CONSERVATION DISTRICT.
- 15. THE HUDSON-ESSEX-PASSAIC SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED, IN WRITING, FOR THE SALE OF ANY PORTION OF THE PROJECT OR FOR THE SALE OF INDIVIDUAL LOTS. NEW OWNER'S INFORMATION SHALL BE PROVIDED. ADDITIONAL MEASURES DEEMED NECESSARY BY DISTRICT OFFICIALS SHALL BE IMPLEMENTED AS CONDITIONS WARRANT.

http://hepsoilnj.org HEPSCD251SESCNOTESrev2014













APPENDIX D:

Site Photograph – Current Condition

October 10, 2017

