

- 1. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PF 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEI
- SPECIFICATIONS OR IF, IN THE CONTRACTOR'S OPINIO 3. THE ENGINEER SHALL INSPECT ALL PLANTING BED AR
- EVIDENCE OF POOR DRAINAGE, THE CONTRACTOR SHA
- 4. THE CONTRACTOR SHALL AVOID DISTURBING ALL EXIST . DIMENSIONS AND SHAPE WILL VARY, REFER TO SITE
- RIVER STONE PROTECTION DIMENSIONS ARE TYPICAL
- 7. RIVER STONE PROTECTION SHALL SLOPE TO RAIN GAR 8. REFER TO SITE PLAN TO DETERMINE OUTLET TYPE (R
- 9. REFER TO SITE PLAN FOR ALL ELEVATIONS AND INVER 10. THE CONTRACTOR SHALL EXCAVATE 15" LOWER THAN
- MAXIMUM. 11. THE SUBGRADE OF THE RAIN GARDEN SHALL BE LEVE
- 12" OF BIORETENTION MEDIA. 12. THE CONTRACTOR SHALL INSTALL OVERFLOW IF SPECI
- 13. THE BIORETENTION LAYER SHALL BE LEVEL TO ENSUR PLANTING.
- 14. INLET AND OUTLET PROTECTION SHALL BE UNDERLAIN 15. INLETS AND OUTLETS SHALL NOT INHIBIT THE FLOW
- 16. THE CONTRACTOR SHALL TILL THE BERM SECTION ANI 17. ALL DISTURBED AREAS EXCLUSIVE OF RAIN GARDEN
- 18. THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION 19. CONTRACTOR SHALL PERFORM REQUIRED TESTING TO CAPABILITIES. TESTING SHALL BE DONE PRIOR TO EXC AND SHALL BE INFORMED OF THE RESULTS.

SPECIFICATIONS:

- 1. MAX COVER OVER TOP OF PIPES IS 4 FT. CONTACT
- 2. THE APPROVAL OF MATERIALS AND MIXING OF SAND, BIORETENTION MEDIA SHALL CONSIST OF 70% SAND
- 3. SAND SHALL AT THE MINIMUM CONFORM TO THE SIEV PREFERABLE WHERE AVAILABLE.
- 4. UNDERLYING SOILS SHALL BE TILLED/SCARIFIED PRIOF 5. ALL BIORETENTION MEDIA SHALL BE PLACED FROM TH
- CROSS THE RAIN GARDEN. 6. RAIN GARDEN SHALL BE CONSTRUCTED TO DIMENSION
- 7. 3–5 INCH DELAWARE RIVER STONE SHALL BE USED
- 8. NON-DYED. TRIPLE-SHREDDED HARDWOOD MULCH SH 9. PLANTING OF RAIN GARDEN AND SLOPED BERM SHALL
- 10. THE CONTRACTOR SHALL PERFORM ALL WORK IN CON

INCOMING FLOW

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VERSION.

RIOR TO EXCAVATION INCLUDING ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES. DIATELY IF ANY FIELD CONDITIONS DIFFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE DIAL TAKE CONDITIONS CONFLICT WITH THE DESIGNS SHOWN HEREON. REAS BEFORE MULCHING TO ENSURE THAT ADEQUATE DRAINAGE EXISTS. IF ANY AREAS TO BE MULCHED SHOW ALL TAKE CORRECTIVE ACTION. STING TREES. ANY DISTURBANCE TO TREES OR TREE ROOTS MUST BE COORDINATED WITH THE PROPERTY OWNER. PLAN. AND MAY VARY PER SITE. CONSULT THE ENGINEER AND SITE PLAN FOR DIMENSIONS ON A PER SITE BASIS. ROCK-LINED OVERFLOW OR DRAINTECH RISER). RTS. I THE BASE ELEVATION SHOWN ON THE SITE PLANS. THE SLOPES OF THE RAIN GARDEN SHALL BE AT A 3:1 //EL TO ENSURE PROPER DRAINAGE. CONTRACTOR SHALL OBTAIN ENGINEER APPROVAL PRIOR TO BACKFILLING WITH CIFIED IN SITE PLANS PRIOR TO BACKFILLING WITH BIORETENTION MEDIA. RE PROPER DRAINAGE. CONTRACTOR SHALL OBTAIN ENGINEER APPROVAL PRIOR TO BACKFILLING WITH CIFIED IN SITE PLANS PRIOR TO BACKFILLING WITH BIORETENTION MEDIA. RE PROPER DRAINAGE. CONTRACTOR SHALL OBTAIN ENGINEER APPROVAL PRIOR TO SPREADING MULCH AND N WITH GEOTEXTILE FABRIC. OF WATER FROM THE STREET. THE RIVER STONE SHALL BE PLACED BELOW THE BOTTOM OF THE PIPE. UD BACKFILL WITH TOPSOIL. AND SLOPED BERM SHALL BE RESTORED TO ORIGINAL CONDITIONS BY CONTRACTOR. N MEETING WITH THE PROJECT ENGINEER PRIOR TO ANY WORK ON SITE. DETERMINE SOIL PERMEABILITY AND SEASONAL HIGH WATER TABLE ELEVATION AT THE SITE TO VERIFY INFILTRATION	PROFESSIONAL ENGINEER	DATE XX/XX/XX	DRAWN CHECKED APPROVED DATE XXX XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CAVATION AND INSTALLATION OF THE PROPOSED PROJECTS. PROJECT ENGINEER SHALL BE PRESENT DURING TESTING ADS IF OTHERWISE GREATER. COMPOST, MAD SOL SHALL BE DONE UNDER THE SUPERVISION OF THE PROJECT ENGINEER/LANDSCAFE ARCHTECT. AND SOL COMPOST MUTURE. WE CANAPSS TO CONCRET AROUNDANT TO WERE. IN TO SPREADING/MIXING OF BIGRETENTION WERE. IN SOBREADING/MIXING OF BIGRETENTION WERE. IN SOBREADING ON THE SITE PLAN. INFORMANCE WITH THE NUDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATEST INFORMANCE WITH THE NUDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATEST INFORMANCE WITH THE NUDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATEST INFORMANCE WITH THE NUDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATEST INFORMANCE WITH THE NUDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATEST INFORMANCE WITH THE NUDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATEST INFORMANCE WITH THE NUDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATEST INFORMANCE WITH THE NUDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATEST INFORMANCE WITH THE NUDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND AND AND AND AND AND AND AND AND AN	TE NAME] REVISIONS LEMENTATION PROJECT No. DATE S, CITY] OESCRIPTION	[COUNTY NAME] COUNTY, NJ	RAIN GARDEN DETAILS
VARIES (SEE SITE PLAN)	RS	Agricultural	DIGIIOU

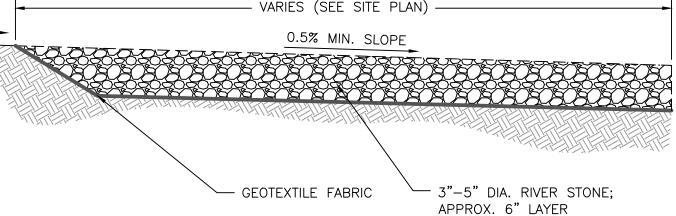
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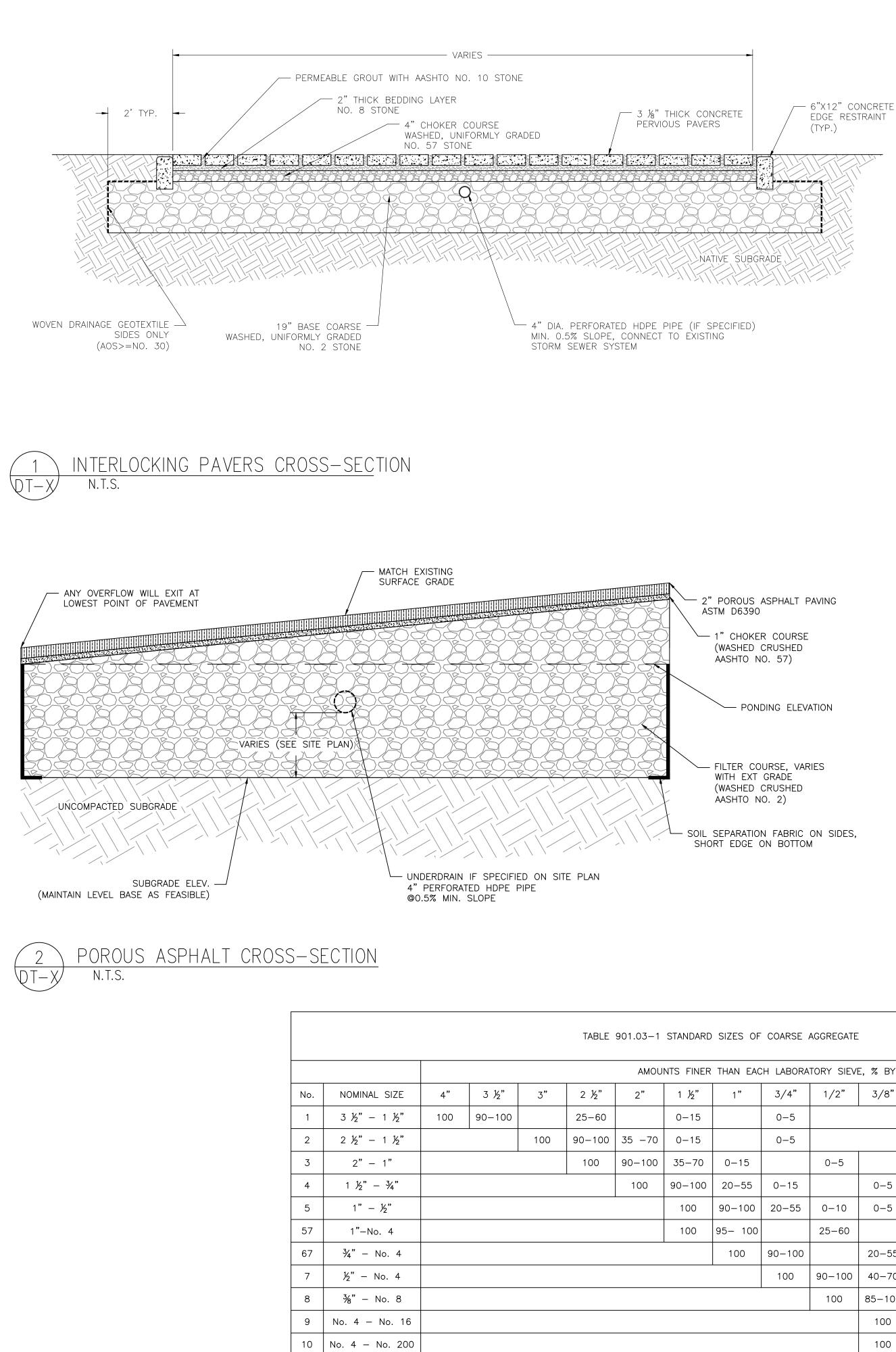
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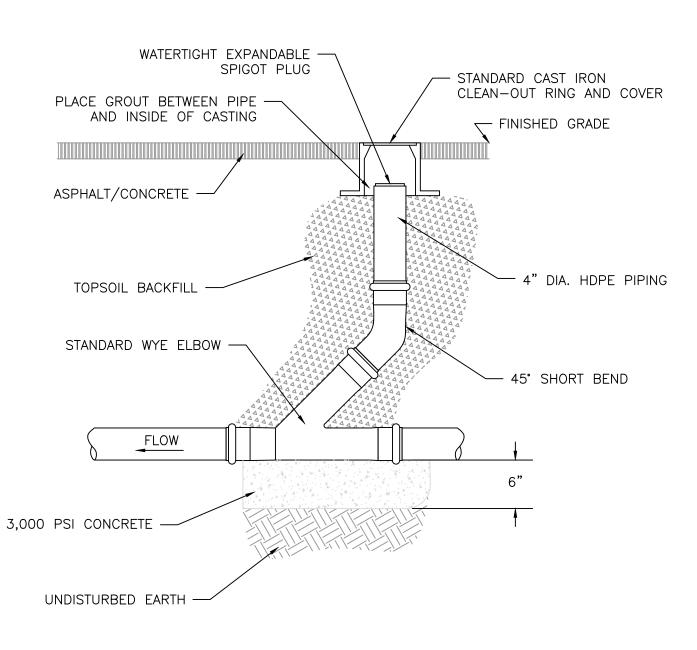
STONE-LINED CHANNEL



NJDOT STANDARD SPECIFICATIONS FOR AGGREGATE 5 VT-X

CONSTRUCTION NOTES:

- 1. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO EXCAVATIO 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIE
- IF, IN THE CONTRACTOR'S OPINION, SAID CONDITIONS CONFLICT WITH TH
- 3. THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION MEETING WITH TH 4. THE CONTRACTOR SHALL AVOID OVER COMPACTING THE EXISTING MATER
- 5. THE CONTRACTOR SHALL ESTABLISH ALL ELEVATIONS AND LINES AS SHO
- 6. THE CONTRACTOR SHALL VERIFY THAT THE SUBGRADE IS CONSISTENT W PONDING SHALL BE REGRADED BEFORE SUBBASE INSTALLATION.
- 7. IMMEDIATELY AFTER THE SUBGRADE IS APPROVED BY THE ENGINEER, TH AND ABOVE THE EXISTING SUBGRADE.
- 8. PRIOR TO BACKFILLING ANY POROUS ASPHALT MATERIALS, THE CONTRAC 9. CONTRACTOR SHALL PERFORM REQUIRED TESTING TO DETERMINE SOIL TESTING SHALL BE DONE PRIOR TO EXCAVATION AND INSTALLATION OF THE RESULTS.
- 10. THE TESTED INFILTRATION RATE SHALL BE AT LEAST 0.5 IN/HR OR 50 11. THE CONTRACTOR SHALL PLACE GEOTEXTILE FABRIC IN CONFORMANCE
- FABRIC SHALL BE SECURED AT LEAST FOUR FEET OUTSIDE OF THE EXC 12. THE FILTER COURSE AGGREGATE SHALL BE INSTALLED IN 8 INCH MAXIM 13. CHOKER SHALL BE INSTALLED EVENLY OVER FILTER COURSE, THE CONT
- CHOKER, GRAVEL, AND STONE BASE AGGREGATE SHALL BE INSTALLED 14. SUBBASE COURSES DENSITIES SHALL BE APPROVED BY THE ENGINEER, SUBBBASE COURSE MATERIALS DURING COMPACTION.
- 15. THE CONTRACTOR SHALL PERFORM ALL ROLLING AND SHAPING FROM T SMOOTH.
- 16. AFTER SUBBASE AGGREGATE INSTALLATION THE GEOTEXTILE FABRIC SHAI ESTABLISH VEGETATION. ANY NECESSARY MEASURES SHALL BE TAKEN TO 17. THE ASPHALT AND CONCRETE MIXING PLANT, HAULING AND PLACING EQ
- SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATE





COARSE /	AGGREGATE								
LABORATORY SIEVE, % BY WEIGHT									
3/4"	1/2"	3/8"	No. 4	No. 8	No. 16	No. 50	No. 100		
0-5									
0-5									
	0-5								
0-15		0-5							
20-55	0-10	0-5							
	25-60		0-10	0-5					
90-100		20-55	0-10	0-5					
100	90-100	40-70	0-15	0-5					
	100	85-100	10-30	0-10	0-5				
		100	85-100	10-40	0-10	0-5			
		100	85-100				10-30		

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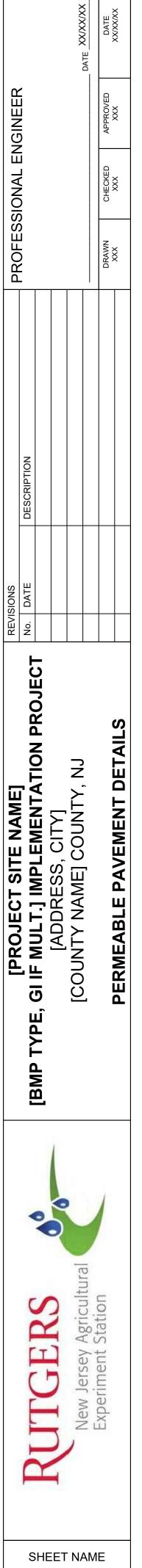


SIEVE SIZ 0.75/19 0.50/12.5 0.375/9.5 No.4/4.75 No.8/2.36 No.200/0.

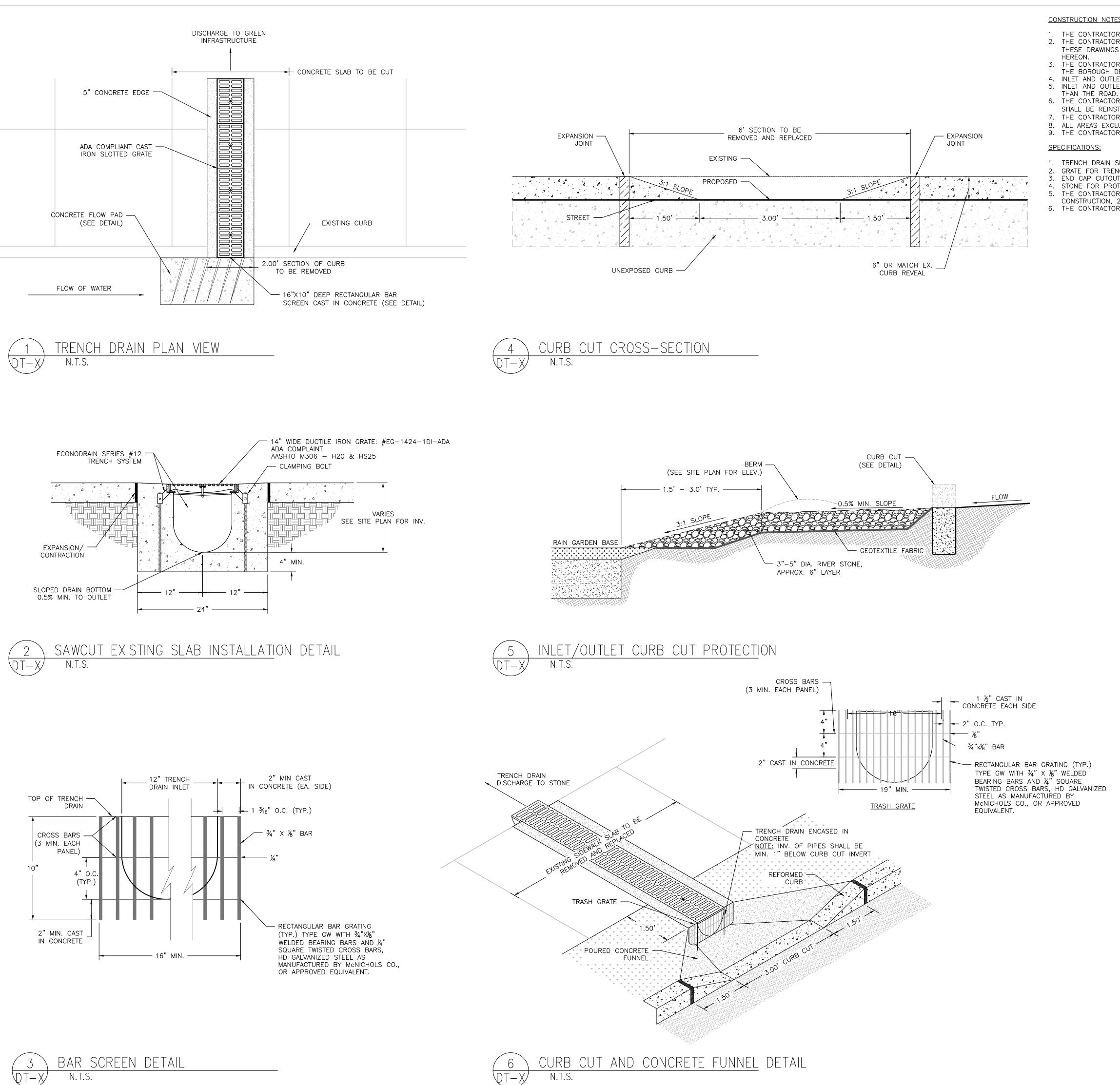
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*CELLULOS **IF THE (WITH A S AN ANTIST VALUE ABOVE 80%.

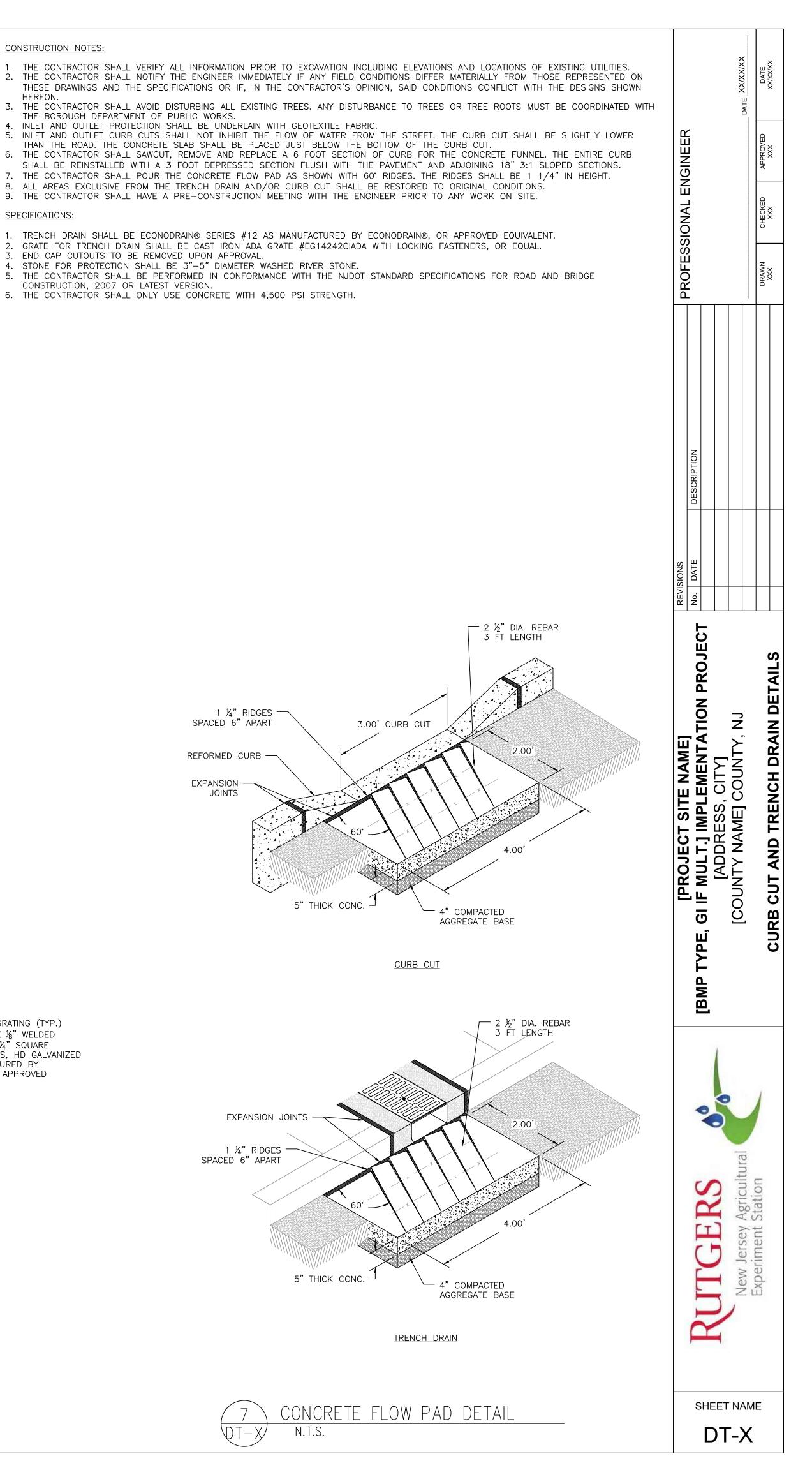
ON INCLUDING ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES. ELD CONDITIONS DIFFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE SPECIFICATIONS OR HE DESIGNS SHOWN HEREON. HE ENGINEER PRIOR TO ANY WORK ON SITE. RIALS IN ORDER TO AVOID POOR INFILTRATION OR SHORT LIFETIME OF PAVEMENT. OWN IN THE SITE PLAN FOR REVIEW BY THE ENGINEER BEFORE ANY CONSTRUCTION BEGINS. WITH LINE, GRADE, AND ELEVATIONS AS INDICATED IN THE SITE PLAN. ANY AREAS SHOWING EROSION OR POTENTIAL
HE CONTRACTOR SHALL BEGIN SUBBASE CONSTRUCTION WHICH INCLUDES ALL MATERIALS BELOW THE PAVEMENT
CTOR SHALL SCARIFY THE EXISTING SUBGRADE TO PROMOTE DESIRABLE INFILTRATION RATES. PERMEABILITY AND SEASONAL HIGH WATER TABLE ELEVATION AT THE SITE TO VERIFY INFILTRATION CAPABILITIES. THE PROPOSED PROJECTS. PROJECT ENGINEER SHALL BE PRESENT DURING TESTING AND SHALL BE INFORMED OF
% OF THE HYDRAULIC CONDUCTIVITY (D3385). WITH MANUFACTURER'S STANDARDS. ALL ADJACENT FABRIC SHALL BE OVERLAPPED BY AT LEAST 16 INCHES. THE CAVATED BASE.
MUM LIFTS TO A MAXIMUM OF 95% STANDARD PROCTOR COMPACTION (ASTM D698/AASHTO T99). TRACTOR SHALL NOTIFY THE ENGINEER FOR APPROVAL. CHOKER BASE SHALL BE AT LEAST FOUR INCHES THICK. TO A MAXIMUM OF 95% STANDARD PROCTOR COMPACTION.
ROLLING AND SHAPING SHALL RESUME UNTIL DENSITIES ARE ACCEPTABLE. WATER SHALL BE POURED OVER
HE LOW SIDE TO THE HIGH SIDE UNTIL EACH LAYER CONFORMS TO GRADES AS INDICATED AND LAYERS ARE
LL BE FOLDED BACK ALONG ALL BED EDGES. THE FABRIC SHALL REMAIN SECURE UNTIL ADJACENT SOILS O PREVENT SEDIMENT FROM WASHING INTO BEDS. QUIPMENT, AND INSTALLATION SHALL BE IN CONFORMANCE WITH NAPA IS 131 AND THE NJDOT STANDARD ST VERSION.
<u>TIONS:</u>
CONSTRUCTION SHALL BE PERFORMED IN CONFORMANCE WITH THE NJDOT STANDARD FICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2007 OR LATEST VERSION. HED PAVEMENTS SHALL SHOW NO MARKS FROM ROLLERS AND BE FREE FROM LOW LYING SPOTS ECT TO PUDDLE FORMATION. ENTIRE SURFACE SHALL DRAIN PROPERLY. ALL ELEVATIONS MUST BE N 0.1 FT.
VORK MUST MEET THE STANDARDS OF THE ENGINEER BEFORE PAYMENT. ADDITIONAL WORK AND NG WILL BE NECESSARY IF STANDARDS ARE NOT SUFFICED. US ASPHALT MIX DESIGN CRITERIA:
E (INCH/MM) PERCENT PASSING (%) 100
5 85–100 5 55–75 5 10–25 5 5–10 0.075 (#200) 2–4
CONTENT (AASHTO T164) $6-6.5\%$ PERFORMANCE GRADE $64-22$ NTENT BY TOTAL MIXTURE MASS 0.3% CELLULOSE OR 0.4% MINERALSOLIDS (SBR) CONTENT BY WEIGHT OF THE BITUMEN $1.5-3\%$ or TBDCONTENT (ASTMD6752/AASHTO T275) $16.0-22.0\%$ /N (ASTM D6390)* < $0.\%$ TENSILE STRENGTH (AASHTO 283)** > 80\%O ABRASION TEST ENGAED SAMPLES (ASTM D7064-04) < 20\%
SE OR MINERAL FIBERS MAY BE USED TO REDUCE DRAINDOWN. TSR (RETAINED TENSILE STRENGTH) VALUES FALL BELOW 80% WHEN TESTED PER NAPA IS 131 SINGLE FREEZE THAW CYCLE RATHER THAN 5), THEN IN STEP 4, THE CONTRACTOR SHALL EMPLOY TRIP ADDITIVE, SUCH AS HYDRATED LIME (ASTM C977) OR A FATTY AMINE, TO RAISE THE TSR

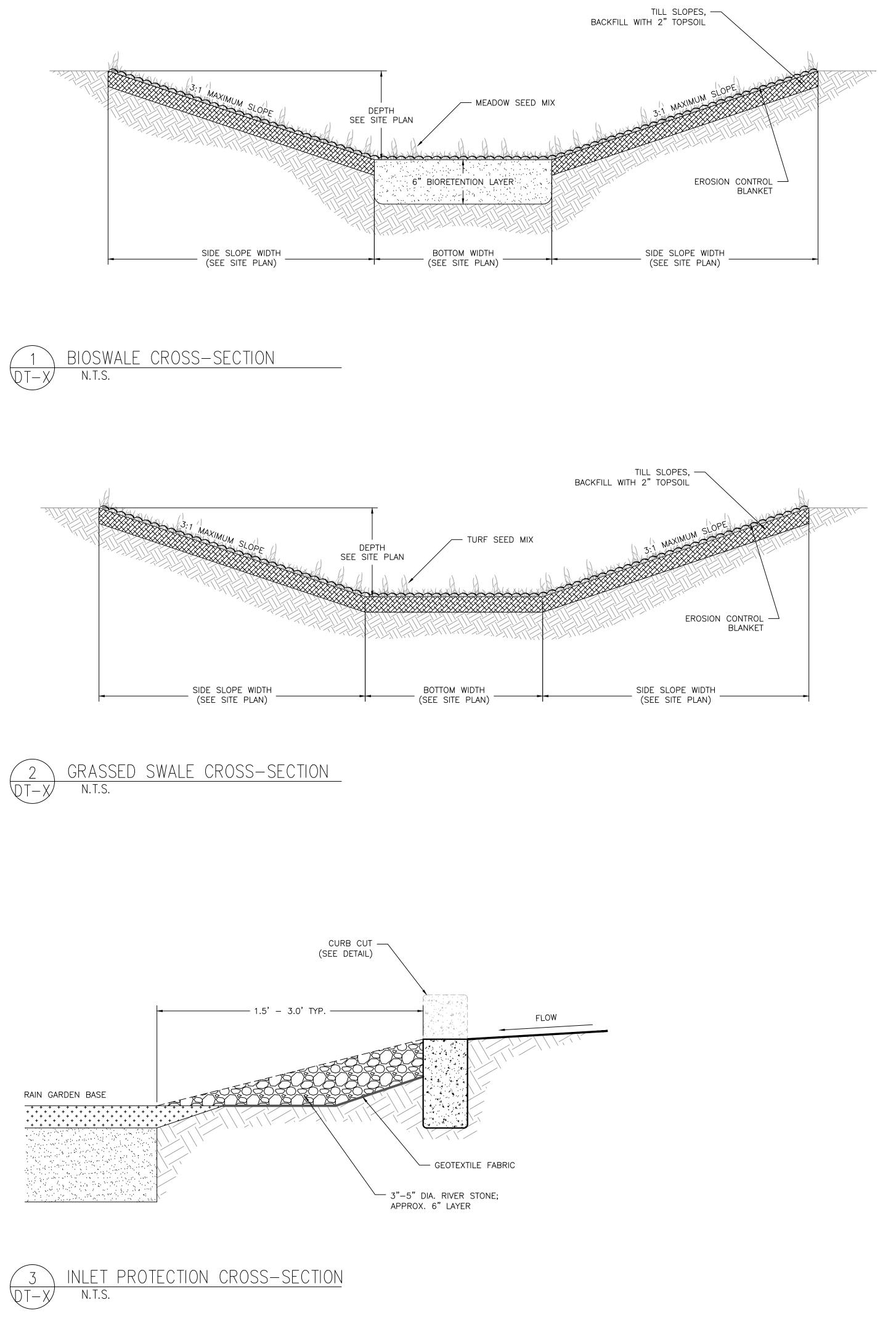


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PANSION	6' SECTION TO BE REMOVED AND REPLA		
	EXISTING 3:1 PROPOSED PROPOSED	3:1 SLOPE	
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UNEX	(POSED CURB	6" OR MATCH CURB REVE	H EX

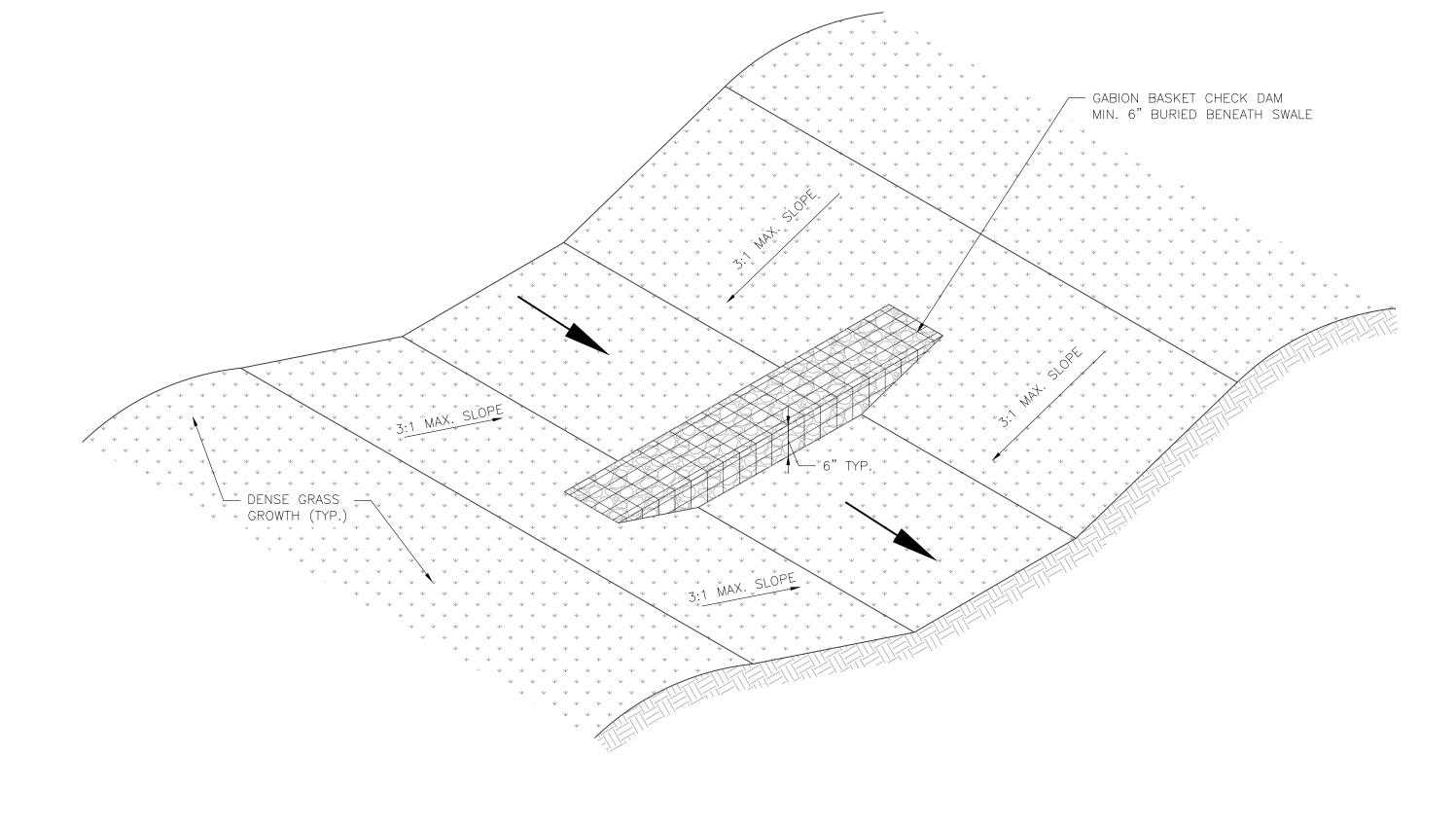




- 1. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO EXCAVATION INCLUDING ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES. 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS DIFFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE SPECIFICATIONS OR IF, IN THE CONTRACTOR'S OPINION, SAID CONDITIONS CONFLICT WITH THE DESIGNS SHOWN HEREON.
- 3. THE ENGINEER SHALL INSPECT ALL PLANTING BED/SEEDING AREAS BEFORE PLANTING/SEEDING TO INSURE THAT ADEQUATE DRAINAGE EXISTS FOR BIOSWALES. IF ANY AREAS TO BE PLANTED/SEEDED SHOW EVIDENCE OF POOR DRAINAGE, THE CONTRACTOR SHALL TAKE CORRECTIVE ACTION.
- THE CONTRACTOR SHALL AVOID OVER COMPACTING THE EXISTING MATERIALS TO AVOID POOR INFILTRATION. THE CONTRACTOR SHALL VERIFY THAT SWALE WILL CAPTURE STORMWATER RUNOFF FROM DESIRED DRAINAGE AREA.
- THE CONTRACTOR SHALL ESTABLISH ALL ELEVATIONS AND LINES AS SHOWN ON THE SITE PLAN FOR REVIEW BY THE ENGINEER BEFORE ANY CONSTRUCTION BEGINS.
- REGRADED BEFORE SUBBASE INSTALLATION.
- NATIVE SUBGRADE. 10. PRIOR TO BACKFILLING BOISWALE WITH BIORETENTION MEDIA, THE CONTRACTOR SHALL SCARIFY NATIVE SOIL TO PROMOTE INFILTRATION INTO UNDERLYING SUBGRADE. 11. THE BIORETENTION MEDIA LAYER SHALL BE INSTALLED EVENLY OVER THE NATIVE SUBGRADE.
- DONE PRIOR TO EXCAVATION AND INSTALLATION OF THE PROPOSED PROJECTS. PROJECT ENGINEER SHALL BE PRESENT DURING TESTING AND SHALL BE INFORMED OF THE RESULTS. 13. THE BIOSWALE SHALL HAVE AN INFILTRATION RATE SHALL BE AT LEAST 0.5 IN/HR OR 50 % OF THE HYDRAULIC CONDUCTIVITY (D3385)
- 14. THE CONTRACTOR SHALL INSTALL GABION BASKET CHECK DAM (IF SPECIFIED) AS SHOWN ON SITE PLANS. A MINIMUM OF SIX INCHES OF BASKET SHALL BE BURIED BENEATH SWALE. 15. THE CONTRACTOR SHALL INSTALL EROSION CONTROL BLANKET ALONG BASE AND SIDE SLOPES OF NEWLY CONSTRUCTED SWALE FOR STABILIZATION. SPECIFICATIONS:

1. THE BIORETENTION LAYER SHALL BE COMPRISED OF 70% SAND AND 30% COMPOST MIXTURE.

- 2. INLET PROTECTION FOR SWALE SHALL BE COMPRISED OF 3"-5" DIAMETER RIVER STONE. STONE SHALL BE UNDERLAIN WITH GEOTEXTILE FABRIC. 3. GABION BASKET CHECK DAM SHALL BE DURA-WELD GALVANIZED & PVC COATED BASKETS. BASKETS ARE TYPICALLY 6'X3'X1', REFER TO SITE PLAN FOR BASKET SIZE.
- 4. GABION STONE SHALL BE 4" 10" DIAMETER, CLEAN.
- 5. SWALE SHALL BE SEEDED WITH CONTRACTOR TURF MIX UNLESS SPECIFIED OTHERWISE ON PLANS.

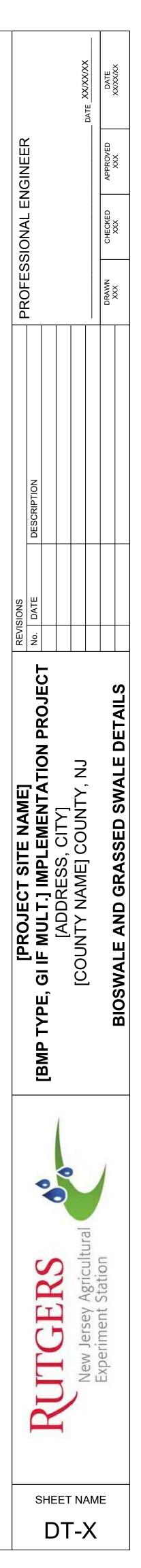


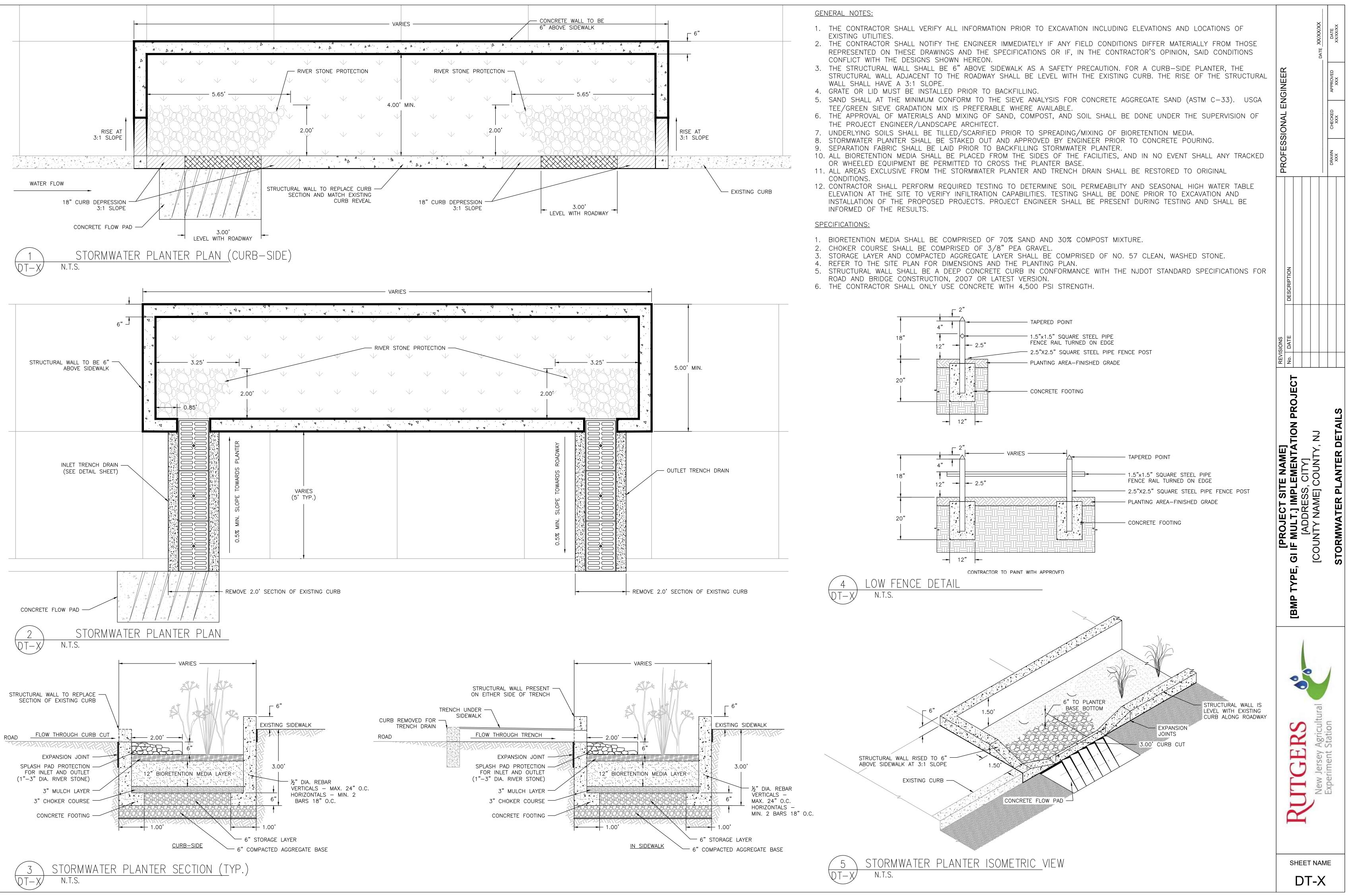


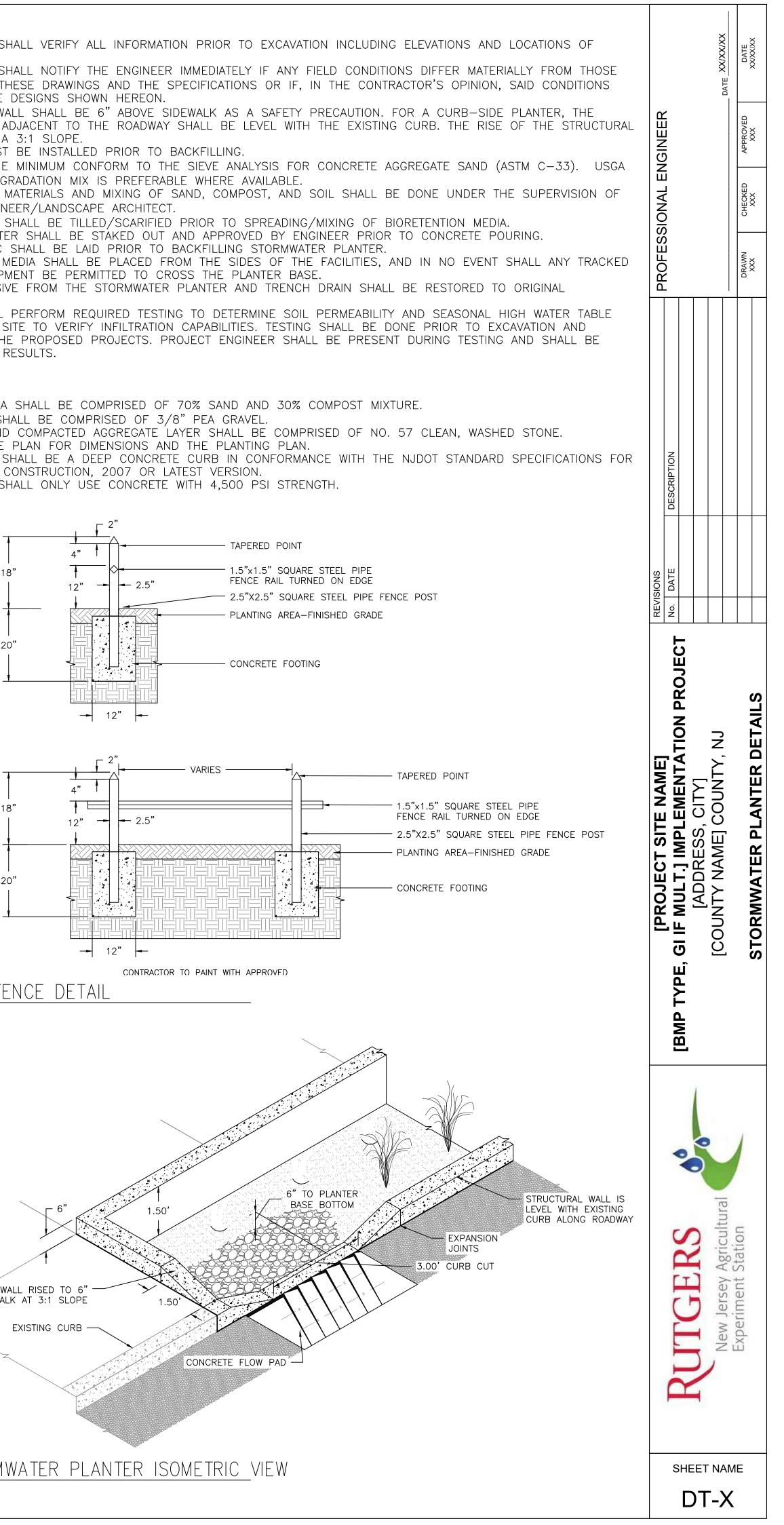
4. THE CONTRACTOR SHALL HAVE ALL UTILITIES MARKED BEFORE ANY EXCAVATION. IF ANY UTILITIES INTERFERE WITH THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

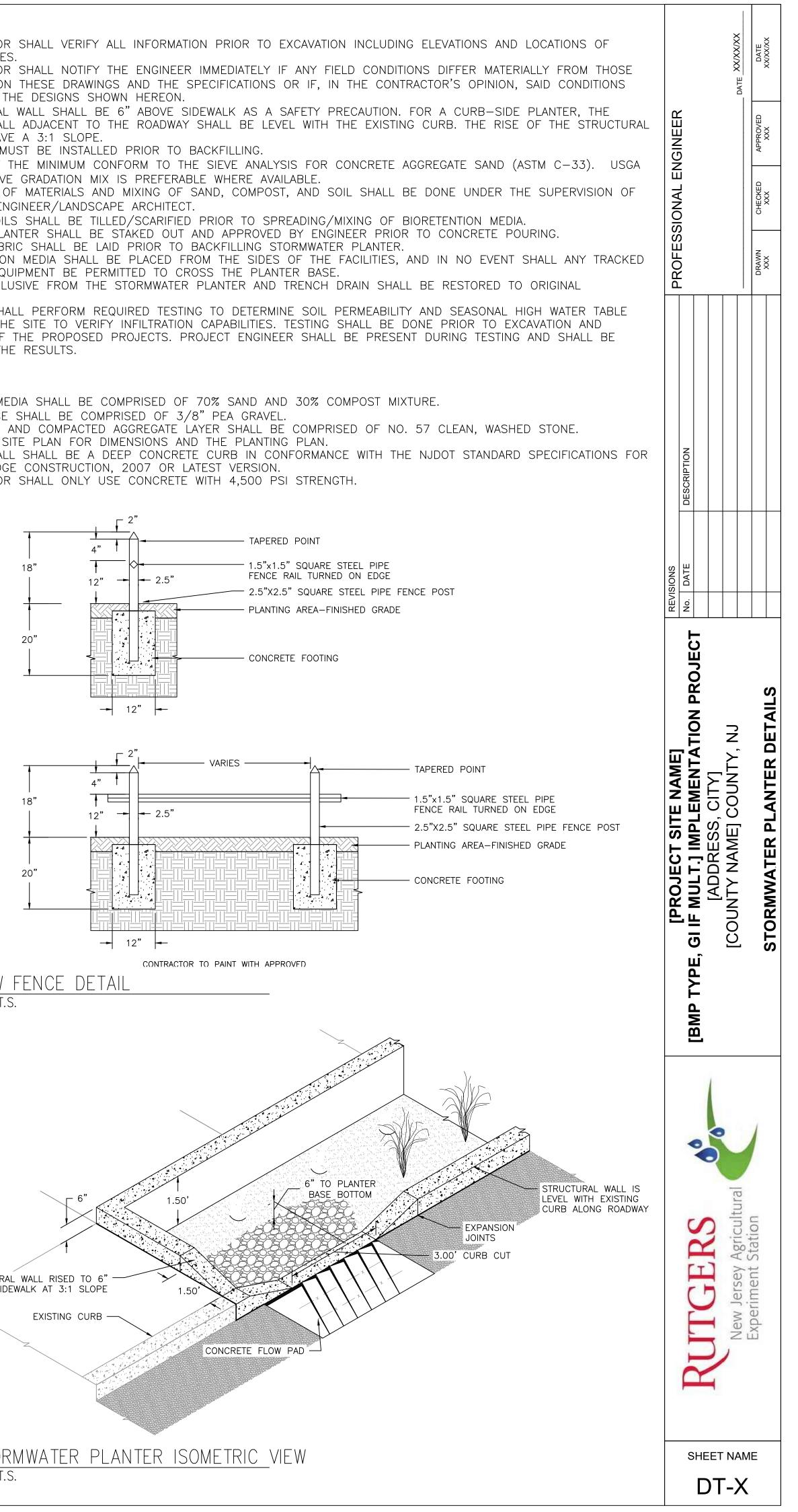
8. THE CONTRACTOR SHALL VERIFY THAT THE SUBGRADE IS CONSISTENT WITH LINE, GRADE, AND ELEVATIONS AS INDICATED ON THE SITE PLAN. ANY AREAS SHOWING EROSION OR POTENTIAL PONDING SHALL BE 9. IMMEDIATELY AFTER THE SUBGRADE IS APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL BEGIN SUBBASE CONSTRUCTION WHICH INCLUDES ALL MATERIALS BELOW THE SWALE BASE AND ABOVE THE

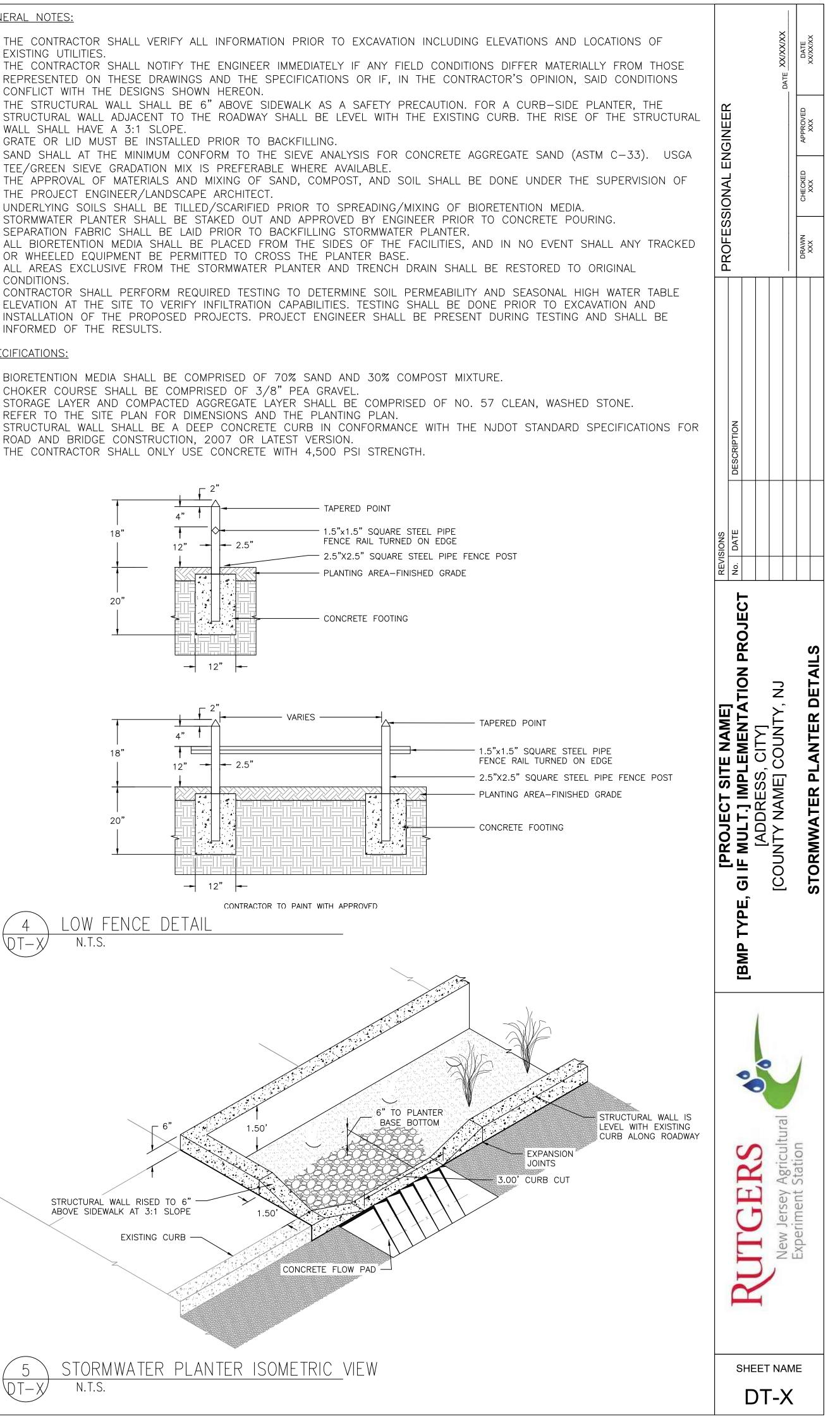
12. CONTRACTOR SHALL PERFORM REQUIRED TESTING TO DETERMINE SOIL PERMEABILITY AND SEASONAL HIGH WATER TABLE ELEVATION AT THE SITE TO VERIFY INFILTRATION CAPABILITIES. TESTING SHALL BE

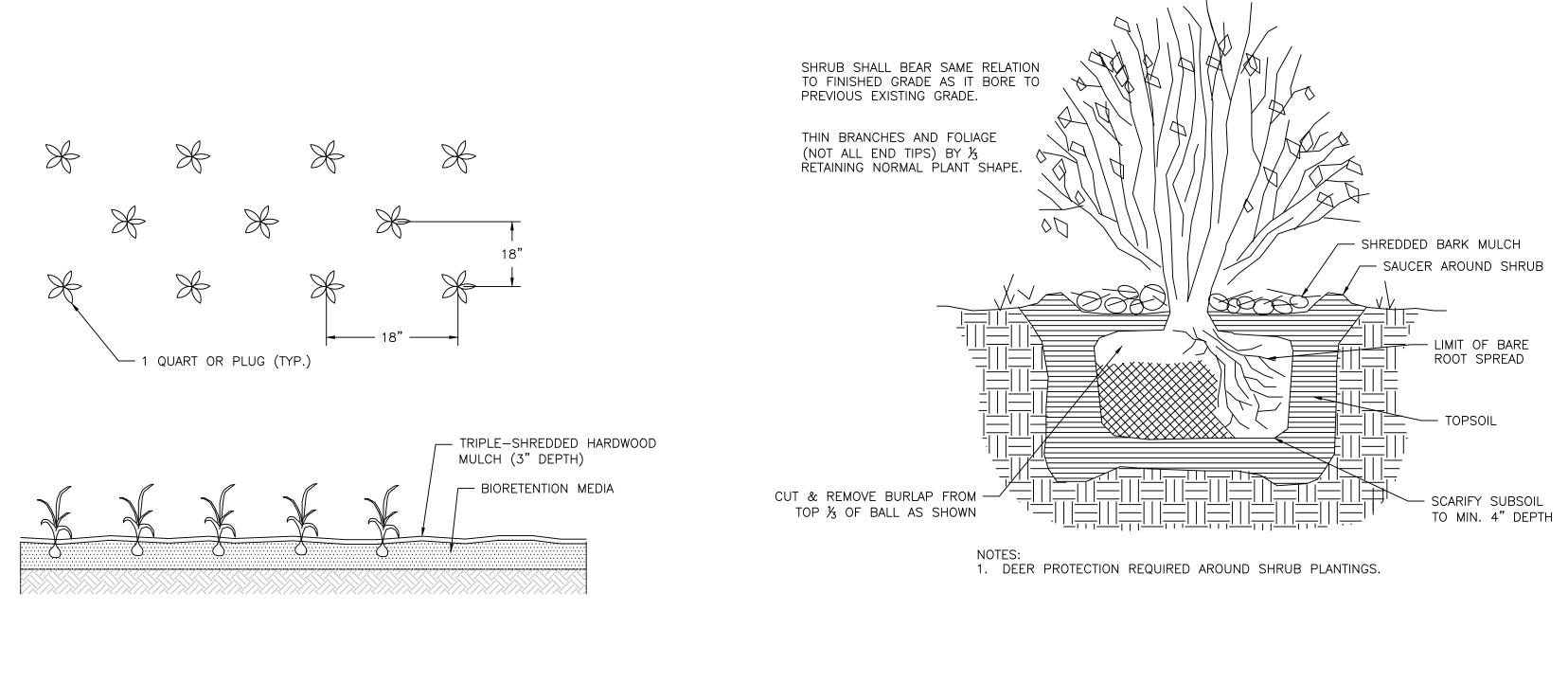






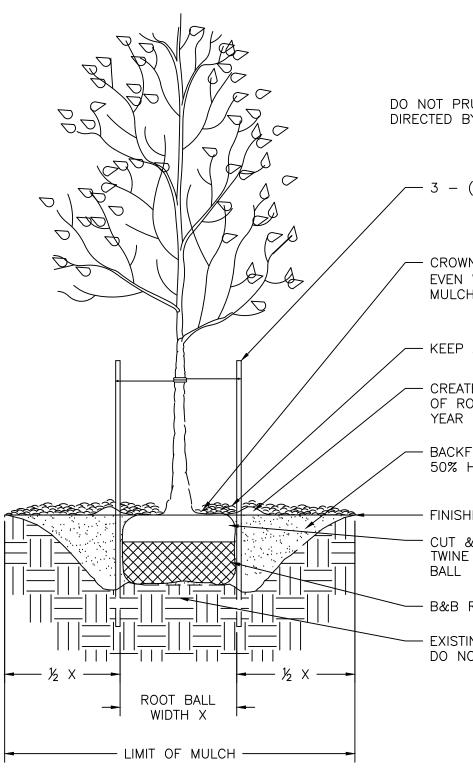












NOTES

1. DO NOT DAMAGE MAIN ROOTS OR ROOT BALL WHEN INSTALLING TREE STAKE. 2. WATER THOROUGHLY AFTER INSTALLATION.

3. REMOVE SAUCER AND STAKES TWO YEARS OR LESS AFTER INSTALLATION.

4. CONTRACTOR IS NOT TO USE TREE WRAP.

TREE PLANTING DETAIL VDT-X/ N.T.S.

SHRUB PLANTING DETAIL

DO NOT PRUNE TREE EXCEPT AS DIRECTED BY OWNERS REPRESENTATIVE

✓ 3 - (2"X2"X8') WOOD STAKES

- CROWN OF ROOT BALL TO BE SET EVEN WITH FINISH GRADE 3" MAX. MULCH OVER ENTIRE PLANTING HOLE

← KEEP AWAY FROM TRUNK

- CREATE RAISED SAUCER AROUND EDGE OF ROOT BALL, REMOVE AFTER FIRST

- BACKFILL WITH TOPSOIL MIXED WITH 50% HUMUS

- FINISHED GRADE ⁻ CUT & REMOVE TOP ½ OF BURLAP, TWINE AND WIRE BASKET FROM ROOT

- B&B ROOT BALL

- EXISTING SUB GRADE, TO AVOID SETTLING DO NOT EXCAVATE BENEATH ROOT BALL

- INSTALL AT A RATE OF 350 LBS. PER ACRE PER MANUFACTURERS SPECIFICATIONS.

- APPLIED AT A RATE OF 3 LBS. PER 1000 SQ. FT.
- COULTER IMPLEMENT, OR BY STAPLING BIODEGRADABLE NETTING TO THE SURFACE.
- 35 LBS/ACRE (PURE LIVE SEED) PLUS PERENNIAL RYEGRASS AT 15 LBS/ACRE (PURE LIVE SEED).
- MIXTURE SPECIFIED IN TABLE.
- 8. SEE TABLES FOR SEED SPECIES MIXTURE AND APPLICATION RATES.
- 10. NATIVE SHRUBS AND HERBACEOUS PLUGS ARE AVAILABLE AT PINELANDS NURSERY AND SUPPLY, COLUMBUS NJ. WEBSITE: WWW.PINELANDSNURSERY.COM OR PHONE 1-800-667-2729
- FOR CORRECTIVE ACTION
- 3. THE LANDSCAPE ARCHITECT SHALL APPROVE ALL PLANT MATERIAL AND STAKED PLANT LOCATIONS PRIOR TO INSTALLATION.
- DRAWINGS.
- TOPSOIL

		P	LANTING SCHEDULE		
		PLANT SPECIES		TOTAL	SIZE
TYPE	KEY	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE
PERENNIALS	EP	Echinacea purpurea	PURPLE CONEFLOWER	XX	1 QUART
	JE	Juncus effusus	SOFT RUSH	XX	1 QUART
	LS	Lobelia cardinalis	CARDINAL FLOWER	XX	1 QUART
	RF	Rudbeckia fulgida	BLACK EYED SUSANS	XX	1 QUART
	SN	Sorghastrum nutans	INDIAN GRASS	XX	1 QUART
SHRUBS	CS	Cornus sericea	RED TWIG DOGWOOD	XX	#2 CONT.
TREES	RT	Rhus typhina	STAGHORN SUMAC	X	6"-8" CON

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).

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

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

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

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 INCHES TO ALLOW FOR SETTLEMENT.

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

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

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 ENSURE THAT ADEQUATE DRAINAGE EXISTS. IF ANY AREAS TO BE LANDSCAPED SHOW EVIDENCE OF POOR DRAINAGE, THE LANDSCAPE ARCHITECT SHALL NOTIFY THE OWNER IMMEDIATELY

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

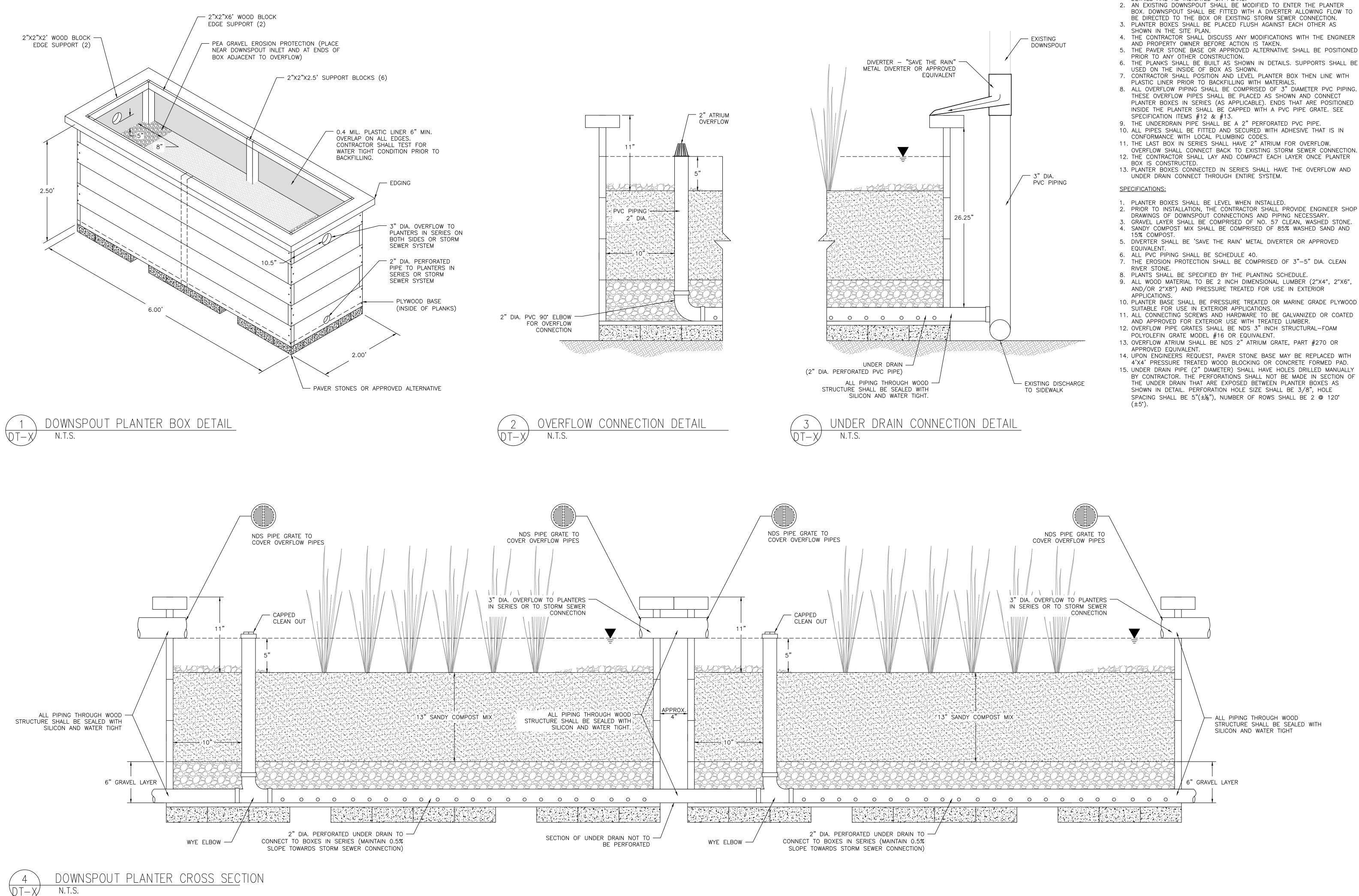
6. TOPSOIL SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR FOR PLANTING ACCORDING TO THE PLANS AND DETAILS.

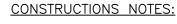
7. PREPARED TOPSOIL FOR BACKFILLING AROUND TREE BALLS SHALL BE A MIXTURE OF VOLUME OF THE FOLLOWING MATERIALS IN QUANTITIES SPECIFIED: ½ COMPOST, ½

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

PROFESSIONAL ENGINEER				DATE WWWW	DRAWN CHECKED APPROVED DATE	XXX XXX
REVISIONS	No. DATE DESCRIPTION					
IPROJECT SITE NAMEI		[ADDRESS, CITY]	ICOUNTY NAMEI COUNTY. NJ			PLANTING AND LANDSCAPING DETAILS
					1	
			Naw Jarcan Agriculturs	Lew Jelsey Agliculture	Experiment station	

SHEET NAME DT-X



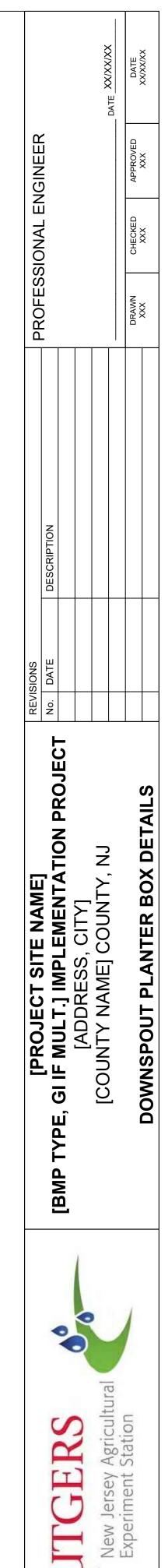


- 1. THE PLANTER BOX SHALL BE BUILT ACCORDING TO THE DIMENSIONS IN DETAILS AND AS INDICATED ON PLANS.
- 2. AN EXISTING DOWNSPOUT SHALL BE MODIFIED TO ENTER THE PLANTER BOX. DOWNSPOUT SHALL BE FITTED WITH A DIVERTER ALLOWING FLOW TO

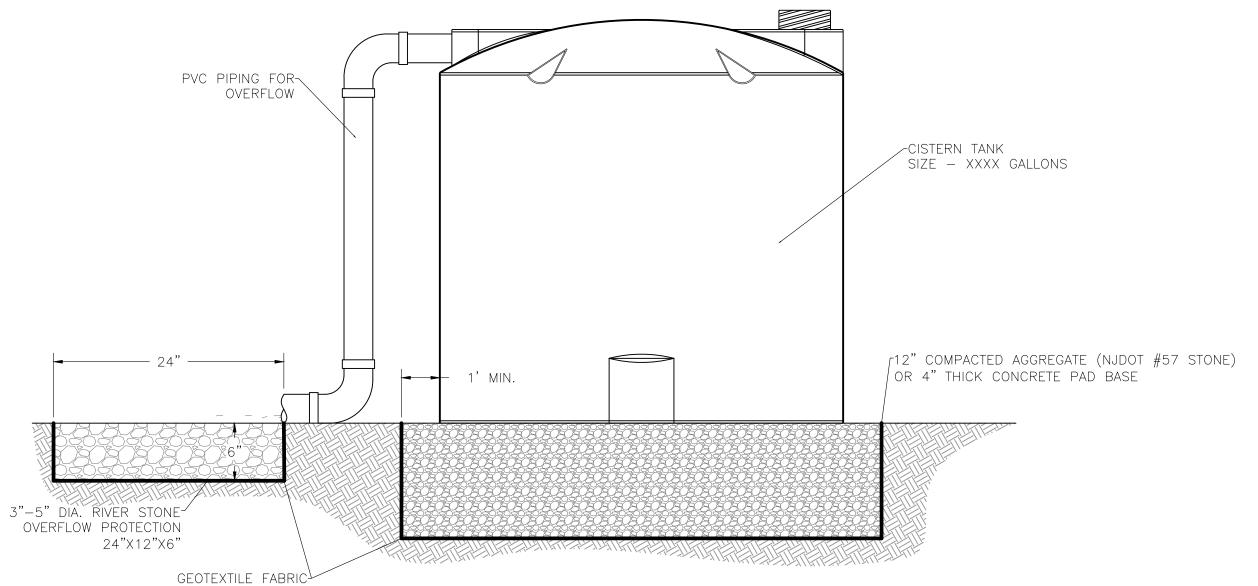
- 5. THE PAVER STONE BASE OR APPROVED ALTERNATIVE SHALL BE POSITIONED
- 6. THE PLANKS SHALL BE BUILT AS SHOWN IN DETAILS. SUPPORTS SHALL BE
- 8. ALL OVERFLOW PIPING SHALL BE COMPRISED OF 3" DIAMETER PVC PIPING.
- PLANTER BOXES IN SERIES (AS APPLICABLE). ENDS THAT ARE POSITIONED INSIDE THE PLANTER SHALL BE CAPPED WITH A PVC PIPE GRATE. SEE
- 10. ALL PIPES SHALL BE FITTED AND SECURED WITH ADHESIVE THAT IS IN
- OVERFLOW SHALL CONNECT BACK TO EXISTING STORM SEWER CONNECTION.
- 13. PLANTER BOXES CONNECTED IN SERIES SHALL HAVE THE OVERFLOW AND

- 7. THE EROSION PROTECTION SHALL BE COMPRISED OF $3^{\circ}-5^{\circ}$ DIA. CLEAN
- 9. ALL WOOD MATERIAL TO BE 2 INCH DIMENSIONAL LUMBER (2"X4", 2"X6",
- 10. PLANTER BASE SHALL BE PRESSURE TREATED OR MARINE GRADE PLYWOOD 11. ALL CONNECTING SCREWS AND HARDWARE TO BE GALVANIZED OR COATED

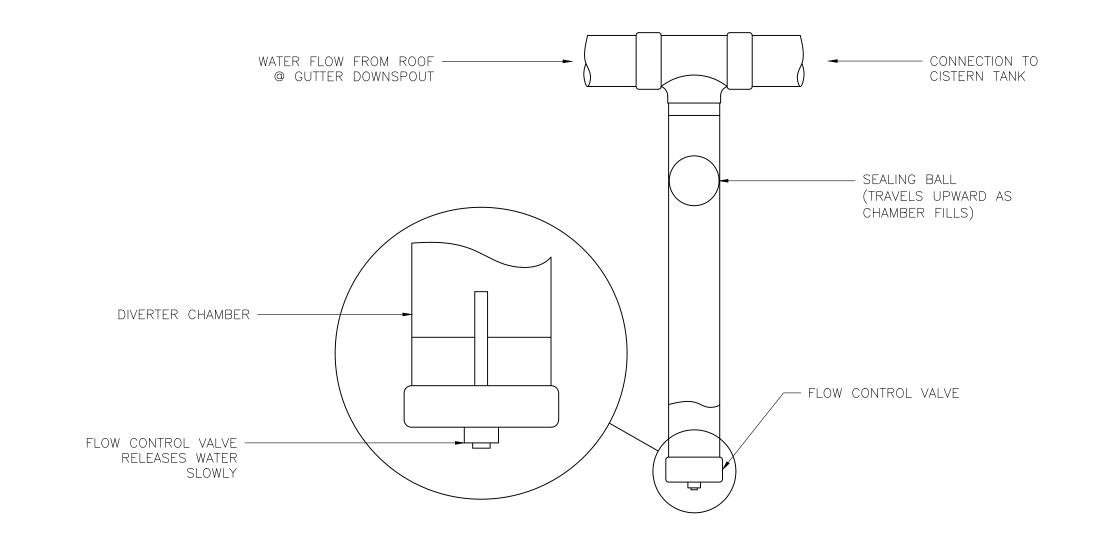
- 14. UPON ENGINEERS REQUEST, PAVER STONE BASE MAY BE REPLACED WITH 4'X4' PRESSURE TREATED WOOD BLOCKING OR CONCRETE FORMED PAD.
- BY CONTRACTOR. THE PERFORATIONS SHALL NOT BE MADE IN SECTION OF THE UNDER DRAIN THAT ARE EXPOSED BETWEEN PLANTER BOXES AS SPACING SHALL BE 5"(±1/4"), NUMBER OF ROWS SHALL BE 2 @ 120°

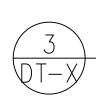


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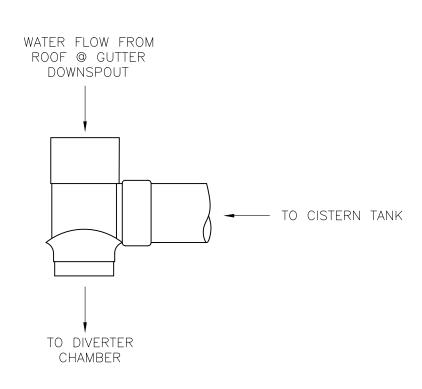








NOTE: ALL PIPING AVAILABLE IN 3" AND 4" SYSTEMS.





FRONT VEW (NTS)

_ 5/4"X6" PRESSURE

TREATED WOOD

-DENOTES DOWNSPOUT TIE-IN

HOLDING TANK

STRUCTURE

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SIDE VĖW (NTS)

- PROPOSED PVC PIPE TO

PROPOSED PRESSURE TREATED L WOOD TRELLIS/AQUADUCT

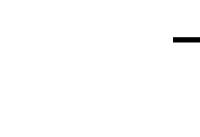














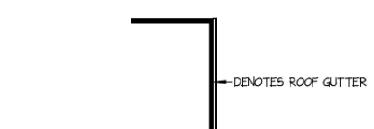






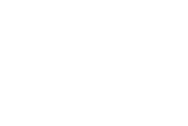




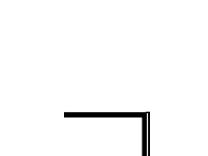


BUILDING











- EXISTING FENCE

- DENOTES PVC PIPE

- 2"X6" PRESSURE TREATED WOOD

-2"X10" PRESSURE TREATED WOOD

GARDEN AREA

PROPOSED CISTERN

1. CRUSHED AGGREGATE BASE SHALL BE COMPRISED OF NO. 57 STONE. ALTERNATIVE CONCRETE PAD SHALL BE CONCRETE WITH 4,500 PSI STRENGTH. 2. ALL DISTURBED AREAS EXCLUSIVE OF THE CISTERN SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR. 3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF DOWNSPOUT CONNECTIONS TO CISTERN FOR ENGINEERS APPROVAL PRIOR TO INSTALLATION.

4. DIVERTER FILTER BOX SHALL BE RAINHARVESTING® FIRST FLUSH DOWNSPOUT DIVERTER (PRODUCT CODE: WDDS9X) OR

EQUIVALENT.

PAYMENT.

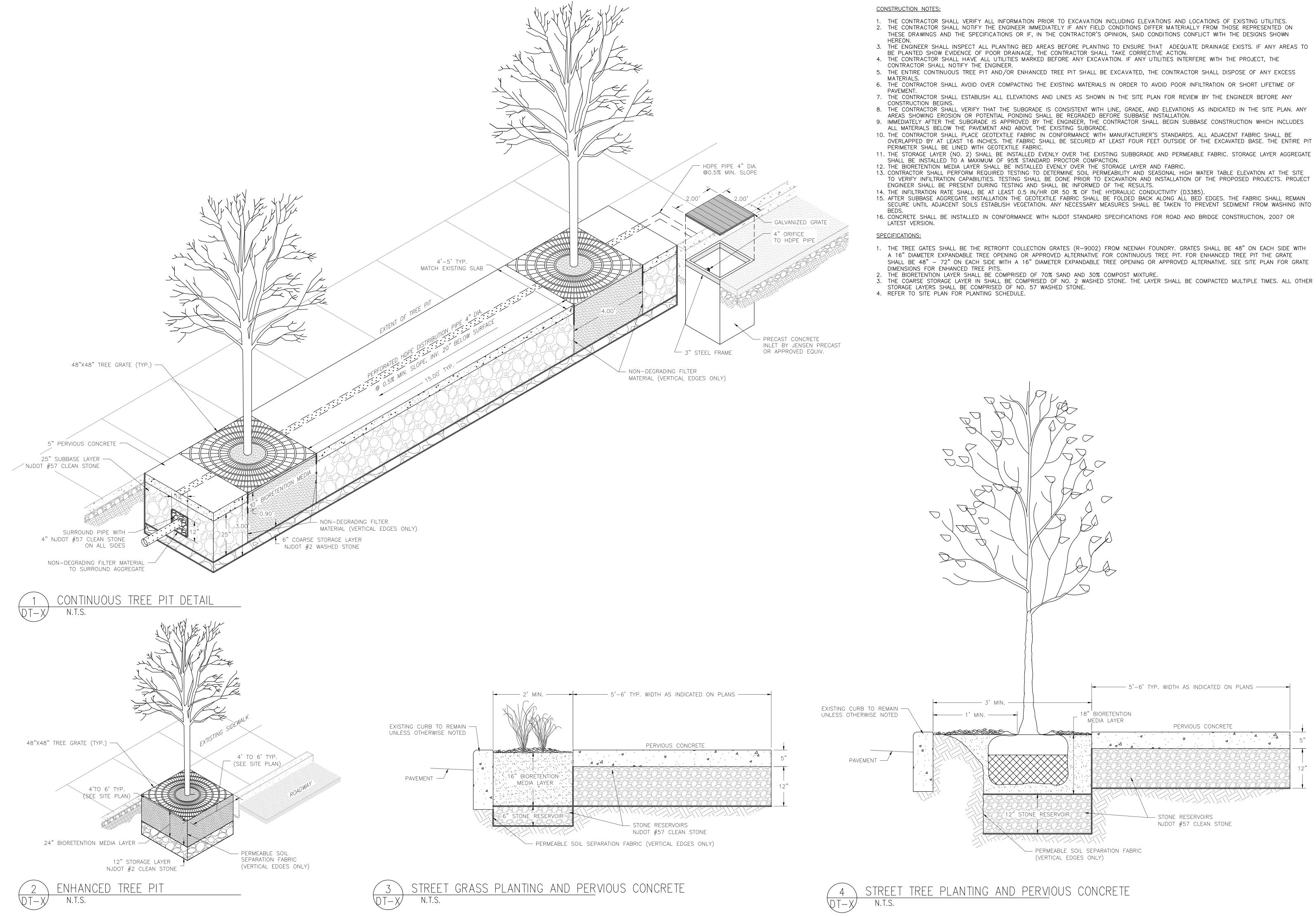
SPECIFICATIONS:

5. OVERFLOW SHALL DISCHARGE TO LAWN AREA UNLESS SPECIFIED OTHERWISE. STONE PROTECTION COMPRISED OF 3"-5" DIA. CLEAN RIVER STONE SHALL BE INSTALLED AS SHOWN IN DETAIL.

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO INSTALLATION 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 HEREON. 3. THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER PRIOR TO ANY WORK ON SITE. 4. THE CONTRACTOR SHALL AVOID DISTURBING EXISTING AREA. ANY DISTURBANCE TO SIDEWALKS OR LANDSCAPED VEGETATION AND TREES MUST BE COORDINATED WITH THE PROPERTY OWNER. 5. THE CONTRACTOR SHALL USE PVC PIPING FOR CONNECTION FROM ROOF TO CISTERN. 6. ALL PIPES USED FOR CONNECTION FROM ROOFTOP TO CISTERN SHALL BE CLEAR OF ANY CLOGS OR OBSTRUCTIONS. ALL PIPES SHALL BE FITTED AND SECURED WITH ADHESIVE IN CONFORMANCE WITH LOCAL PLUMBING CODES. 7. THE CONTRACTOR SHALL PROVIDE A CRUSHED AGGREGATE BASE OR CONCRETE SLAB WITH 4,500 PSI STRENGTH TO SUPPORT THE CISTERN AS INDICATED ON THE PLAN. 8. THE OVERFLOW FROM THE CISTERN SHALL CONNECT TO THE NEAREST STORM SEWER CATCH BASIN INLET. 9. THE CONTRACTOR SHALL NOT MAKE ANY MODIFICATIONS AT THE SITE UNTIL CONSULTING WITH THE ENGINEER. 10. THE CONTRACTOR IS REQUIRED TO SUBMIT SHOP DRAWINGS OF ALL MATERIALS AND CONSTRUCTION METHODS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE AND INSTALLATION. 11. ALL SYSTEMS SHALL BE TESTED BY THE ENGINEER FOR LEAKS AND WATER TIGHT FITTINGS PRIOR TO ACCEPTANCE AND 12. THE CONTRACTOR SHALL USE SIMPSON TIE IN CONNECTORS FOR THE SHADE STRUCTURE. 13. THE CONTRACTOR SHALL USE PRESSURE TREATED LUMBER. 14. THE CONTRACTOR SHALL INSTALL CONCRETE FOOTINGS WITH A MINIMUM 3 FOOT DEPTH. 15. THE CONTRACTOR SHALL NOT MAKE ANY MODIFICATIONS AT THE SITE UNTIL CONSULTING WITH THE ENGINEER.

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Ruttersey Agricultural Experiment Station	IAME] ENTATION PROJECT IY] JNTY, NJ FAILS						CISTERN DETAILS	
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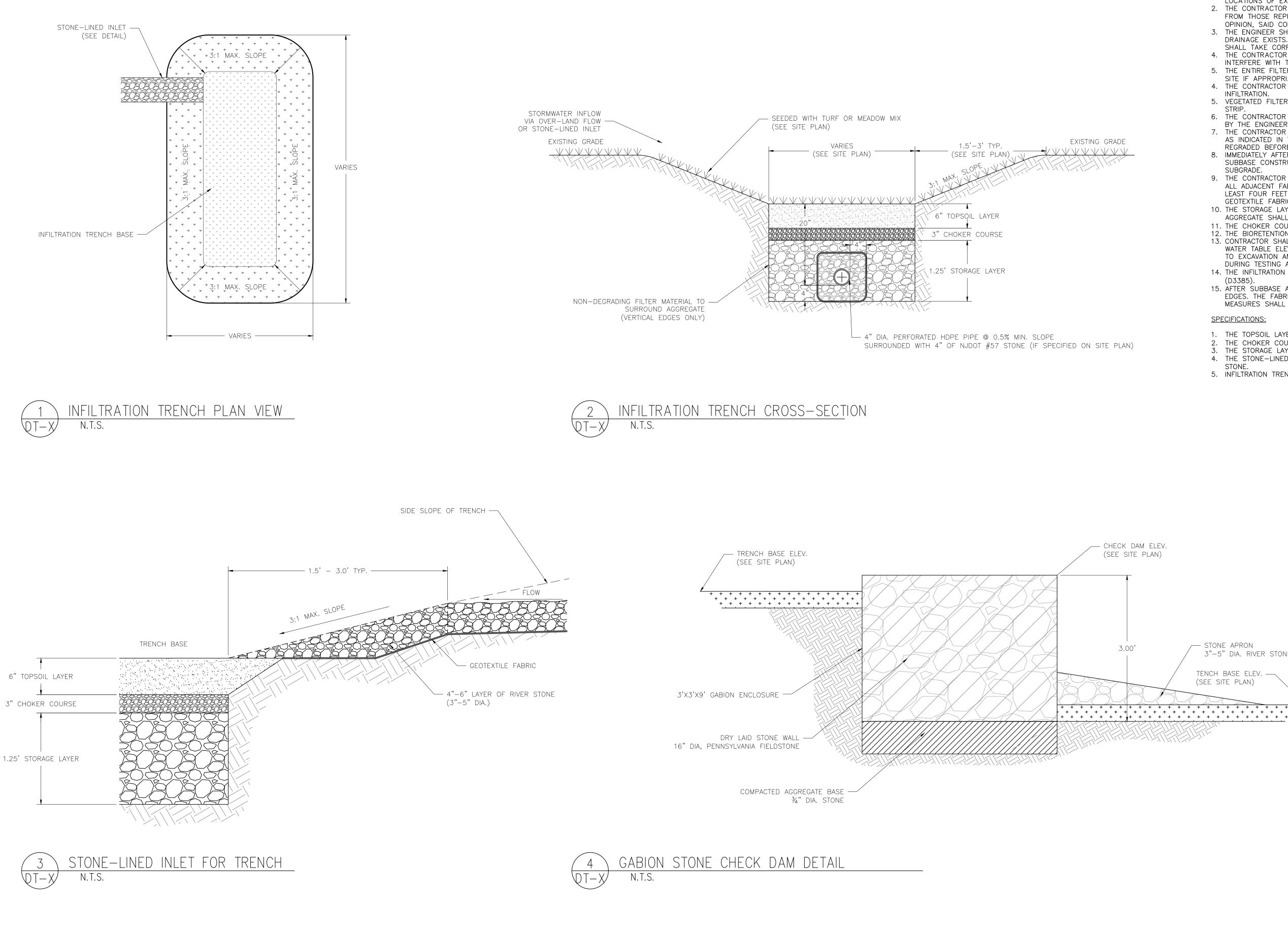




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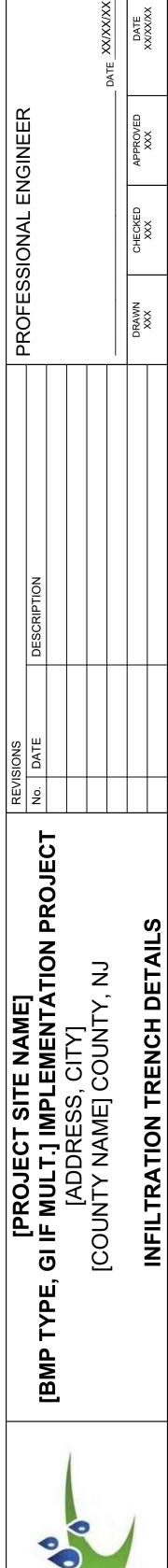
- 1. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO EXCAVATION INCLUDING ELEVATIONS AND
- LOCATIONS OF EXISTING UTILITIES. 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS DIFFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE SPECIFICATIONS OR IF, IN THE CONTRACTOR'S OPINION, SAID CONDITIONS CONFLICT WITH THE DESIGNS SHOWN HEREON. 3. THE ENGINEER SHALL INSPECT ALL PLANTING BED AREAS BEFORE PLANTING TO ENSURE 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 CONTRACTOR SHALL NOTIFY THE ENGINEER. 5. THE ENTIRE FILTER STRIP/INFILTRATION TRENCH SHALL DISPOSE OF ANY EXCESS MATERIALS OR REUSE ON SITE IF APPROPRIATE
- 4. THE CONTRACTOR SHALL AVOID OVER COMPACTING THE EXISTING MATERIALS IN ORDER TO AVOID POOR INFILTRATION. 5. VEGETATED FILTER STRIP BASE SHALL SLIGHTLY LOWER THAN THE ROADWAY TO ENSURE FLOW INTO THE
- STRIP. 6. THE CONTRACTOR SHALL ESTABLISH ALL ELEVATIONS AND LINES AS SHOWN IN THE SITE PLAN FOR REVIEW
- BY THE ENGINEER BEFORE ANY CONSTRUCTION BEGINS. 7. 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. 8. 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. 9. 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 PERIMETER SHALL BE LINED WITH GEOTEXTILE FABRIC.
- 10. THE STORAGE LAYER (NO. 57) SHALL BE INSTALLED EVENLY OVER THE EXISTING SUBGRADE. STORAGE LAYER AGGREGATE SHALL BE INSTALLED TO A MAXIMUM OF 95% STANDARD PROCTOR COMPACTION.
- 11. THE CHOKER COURSE (3/2" DIA. PEA GRAVEL) SHALL BE INSTALLED ABOVE APPROVED STORAGE LAYER. 12. THE BIORETENTION MEDIA LAYER SHALL BE INSTALLED EVENLY OVER THE STORAGE LAYER AND FABRIC. 13. CONTRACTOR SHALL PERFORM REQUIRED TESTING TO DETERMINE SOIL PERMEABILITY AND SEASONAL HIGH WATER TABLE ELEVATION AT THE SITE TO VERIFY INFILTRATION CAPABILITIES. TESTING SHALL BE DONE PRIOR TO EXCAVATION AND INSTALLATION OF THE PROPOSED PROJECTS. PROJECT ENGINEER SHALL BE PRESENT
- DURING TESTING AND SHALL BE INFORMED OF THE RESULTS. 14. THE INFILTRATION RATE SHALL BE AT LEAST 0.5 IN/HR OR 50 % OF THE HYDRAULIC CONDUCTIVITY
- (D3385). 15. ÀFTER 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 BEDS.

SPECIFICATIONS:

- 1. THE TOPSOIL LAYER SHALL BE COMPRISED OF 70% SAND AND 30% COMPOST MIXTURE.
- 2. THE CHOKER COURSE SHALL BE COMPRISED OF 3/4" DIA. PEA GRAVEL, CLEAN AND WASHED. 3. THE STORAGE LAYER SHALL BE COMPRISED OF NO. 57 CLEAN, WASHED STONE.
- 4. THE STONE-LINED INLET FOR INFILTRATION TRENCH SHALL BE COMPRISED OF 3"-5" DIAMETER CLEAN RIVER STONE.
- 5. INFILTRATION TRENCH SHALL BE SEEDED WITH TURF UNLESS SPECIFIED OTHERWISE ON PLANS.

✓── STONE APRON 3"−5" DIA. RIVER STONE

TENCH BASE ELEV. — (SEE SITE PLAN)





SHEET NAME

General Soil Erosion and Sediment Control Notes for Camden County, NJ

- 1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- 2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- 3. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED. AFTER RESTORATION IS COMPLETE, TEMPORARY CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF PROPERLY.
- 4. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
- 5. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN TEN (10) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND THEIR RATES SHOULD BE INCLUDED IN THE NARRATIVE IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
- 6. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT.
- 7. ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
- 8. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- 9. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
- 10. A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS
- 11. ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
- 12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 13. ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
- 14. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- 15. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC. (SEE DETAIL) THE BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.
- 16. NJSA 4:24-39, ET SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- 17. MULCHING IS REQUIRED ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
- 18. OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
- 19. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
- 20. THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY LAND DISTURBANCE.
- 21. ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
- 22. IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZE TOPSOIL PILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
- 23. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN ACCORDANCE WITH THE CURRENT NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 24. METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A pH OF 4 OR LESS.
- 25. TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE NEW JERSEY STANDARDS, AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
- 26. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- 27. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
- 28. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
- 29. ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMEN AND IN ACCORDANCE WITH THE NEW JERSEY STANDARDS.
- 30. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPE PLAN.
- 31. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.
- 32. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY" PREPARED BY THE NEW JERSEY STATE SOIL CONSERVATION COMMITTEE, 1999, INCORPORATED HEREIN BY REFERENCE, AS AMENDED AND SUPPLEMENTED. COPIES OF THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY" ARE AVAILABLE FOR A FEE FROM THE NEW JERSEY DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION COMMITTEE, OR FROM THE OFFICE OF ANY OF THE 16 LOCAL CONSERVATION DISTRICTS.
- 33. DISTURBED AREAS THAT WILL BE EXPOSED IN EXCESS OF 10 DAYS SHALL BE TEMPORARILY SEEDED AND/OR MULCHED UNTIL PROPER WEATHER CONDITIONS EXIST FOR ESTABLISHMENT OF A PERMANENT VEGATATIVE COVER.

MEASURES IDENTIFIED IN THE DEPARTMENT-ISSUED PERMIT SHALL GOVERN.

Prohibited Construction Procedures

- 1. DUMPING OF SPOIL MATERIAL INTO ANY STREAM CORRIDOR, ANY WETLANDS, ANY VERNAL HABITATS, ANY SURFACE WATERS, ANY SITES LISTED OR ELIGIBLE FOR LISTING ON THE NEW JERSEY OR NATIONAL REGISTERS OF HISTORIC PLACES, OR AT UNSPECIFIED LOCATIONS.
- 2. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WETLANDS, VERNAL HABITATS OR SURFACE WATERS.
- 3. PUMPING OF SILT LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATER, STREAM CORRIDORS, WETLANDS, OR VERNAL HABITATS.
- 4. DAMAGING VEGETATION ADJACENT TO OR OUTSIDE OF THE ACCESS ROAD OR THE RIGHT OF WAY.
- 5. DISPOSAL OF TREES, BRUSH, AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS, VERNAL HABITATS, SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.
- 7. OPEN BURNING OF PROJECT DEBRIS. 8. USE OF CALCIUM CHLORIDE, PETROLEUM PRODUCTS, OR OTHER CHEMICALS FOR DUST CONTROL.
- 9. USE OF ASPHALTIC MULCH BINDERS. 10. ANY UNPERMITTED DISCHARGE OF SEWAGE.

NOTES: 1. SILT FENCE SHALL BE PLACED ALONG SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY

AT LEAST 2' INTO THE GROUND AND

8' MAX. SPACING EXTENDING

AT LEAST 2' ABOVE GROUND

WIRE SUPPORT FENCE

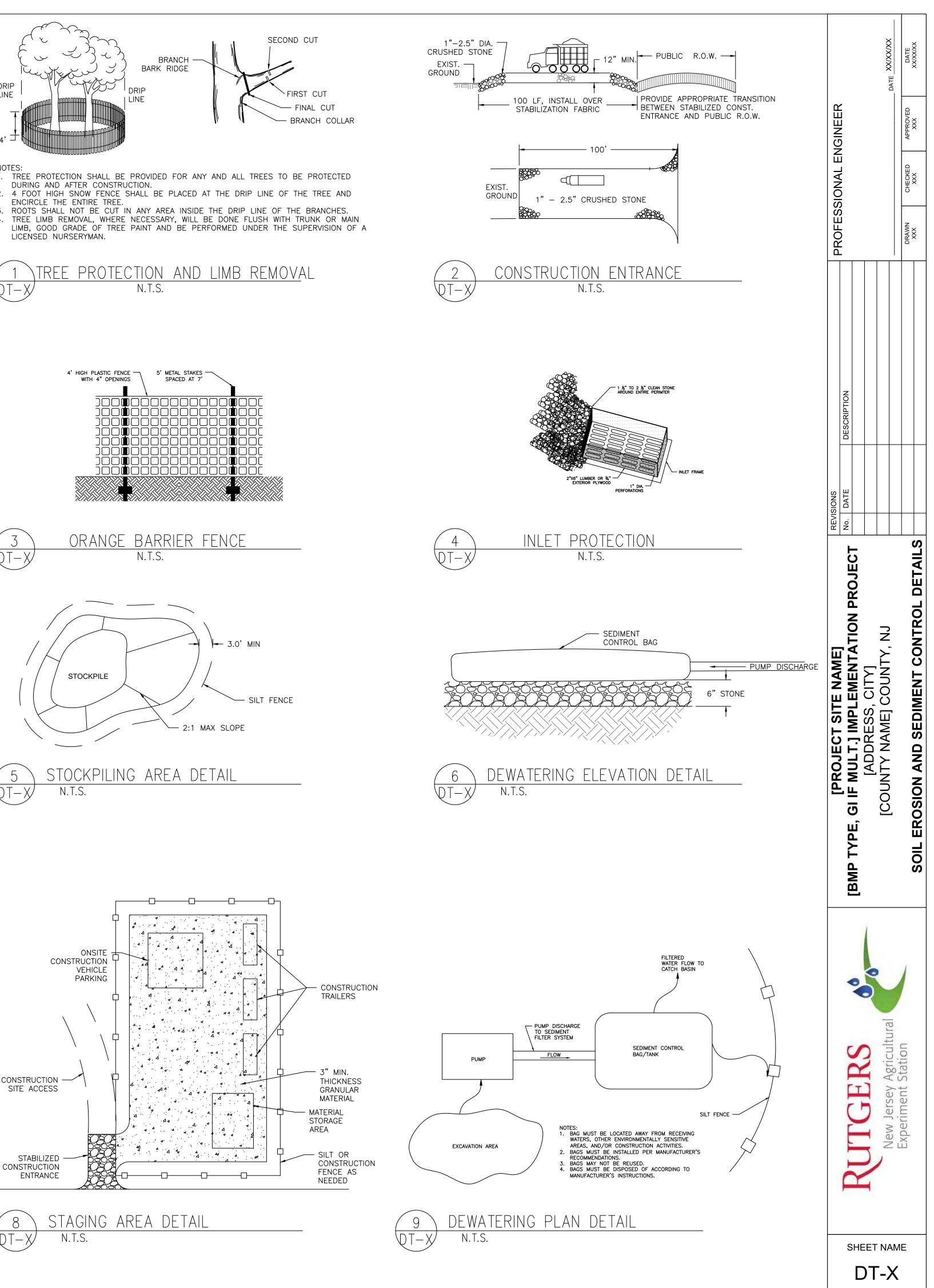
REINFORCEMENT BETWEEN FASTENER

- 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. (9" MAX. RECOMMENDED STORAGE HEIGHT.
- 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
- 4. PLACE SILT FENCE AROUND ALL STOCKPILE AREAS AND AROUND STAGING AREAS AS NEEDED AND AT LOCATIONS SHOWN ON THE SOIL EROSION PLAN.
- 5. THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT TO ANY SILT FENCE SHALL NOT EXCEED 5%. 6. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE

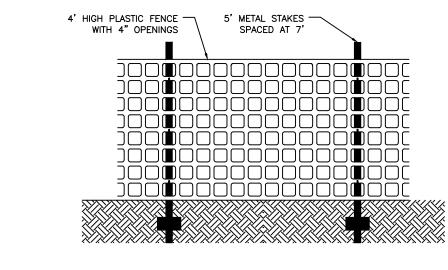


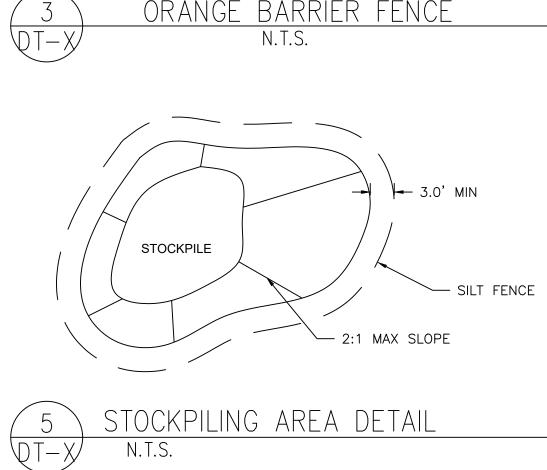


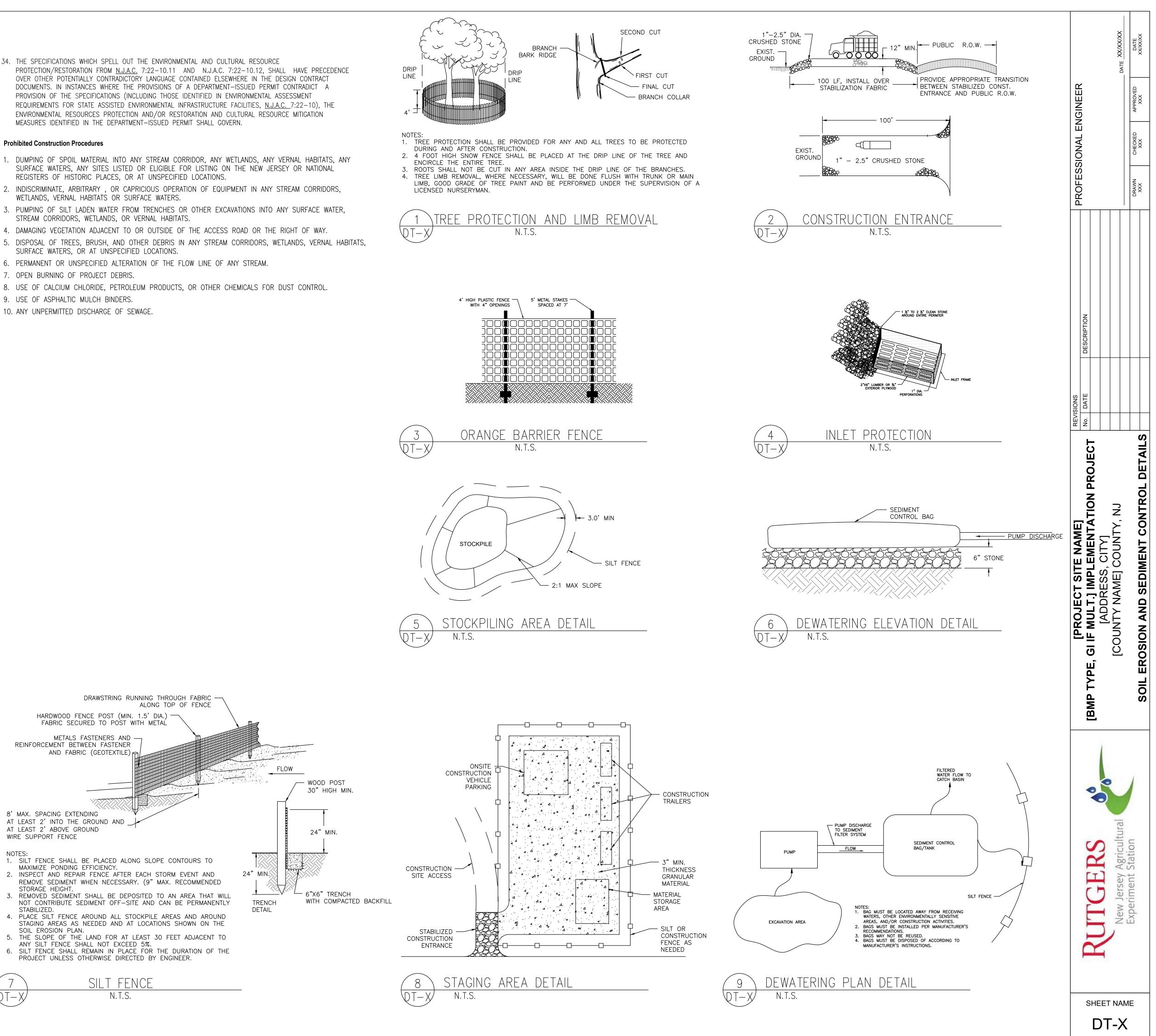
34. THE SPECIFICATIONS WHICH SPELL OUT THE ENVIRONMENTAL AND CULTURAL RESOURCE OVER OTHER POTENTIALLY CONTRADICTORY LANGUAGE CONTAINED ELSEWHERE IN THE DESIGN CONTRACT DOCUMENTS. IN INSTANCES WHERE THE PROVISIONS OF A DEPARTMENT-ISSUED PERMIT CONTRADICT A PROVISION OF THE SPECIFICATIONS (INCLUDING THOSE IDENTIFIED IN ENVIRONMENTAL ASSESSMENT REQUIREMENTS FOR STATE ASSISTED ENVIRONMENTAL INFRASTRUCTURE FACILITIES, N.J.A.C. 7:22-10), THE ENVIRONMENTAL RESOURCES PROTECTION AND/OR RESTORATION AND CULTURAL RESOURCE MITIGATION

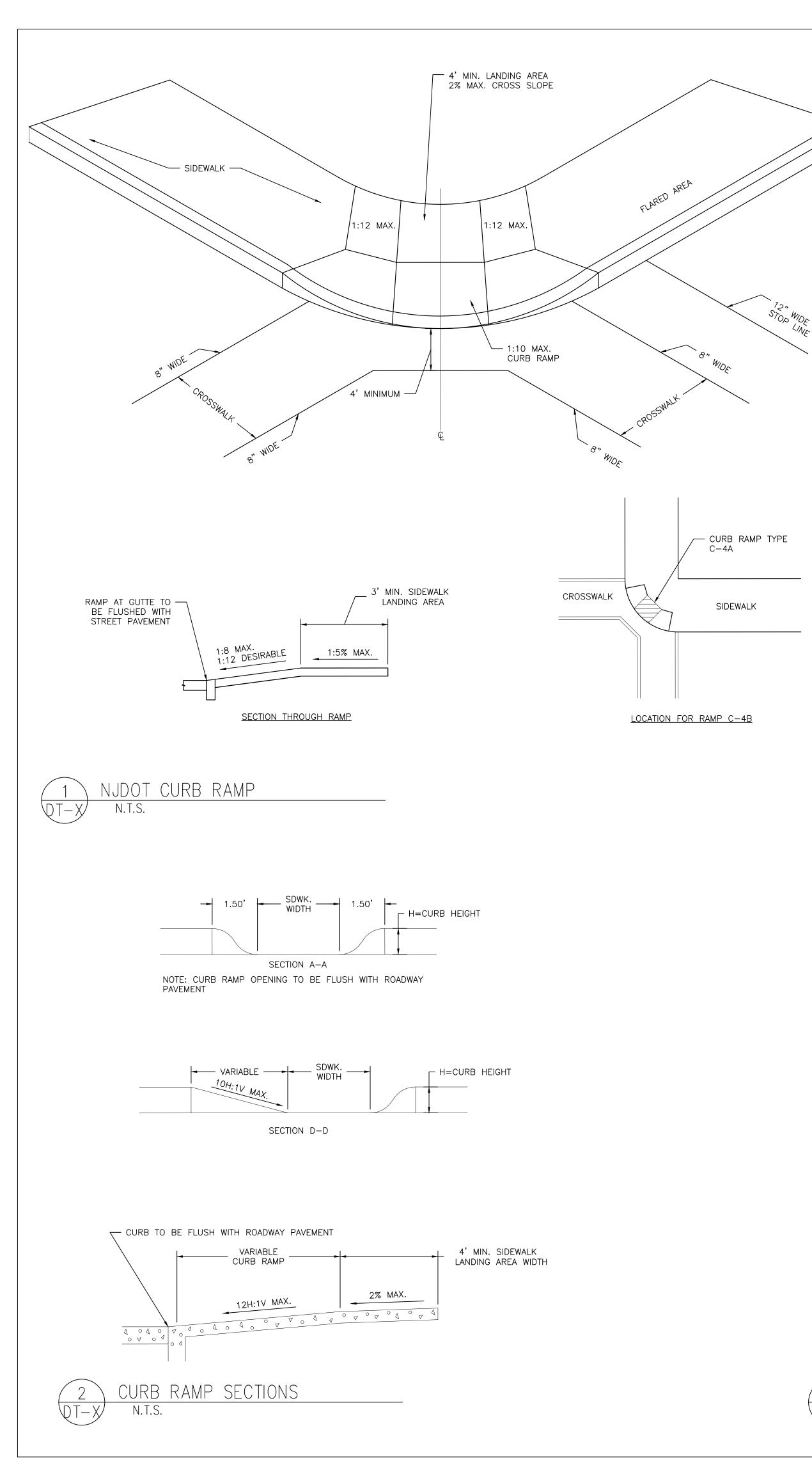




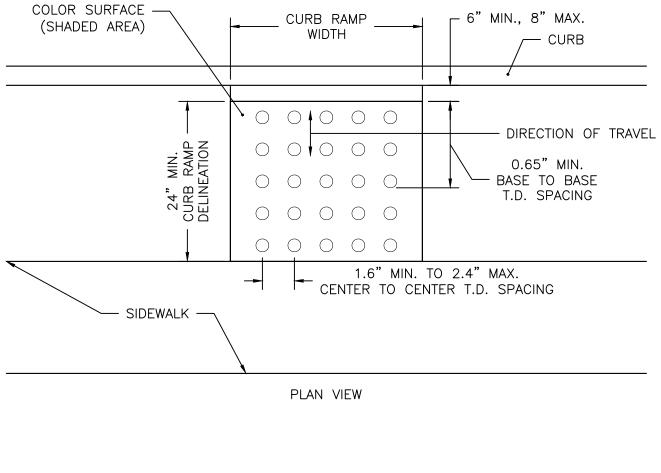


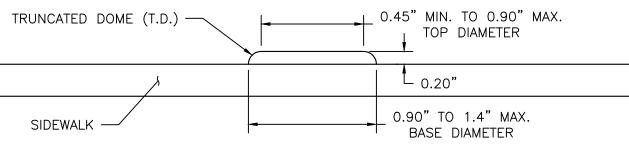








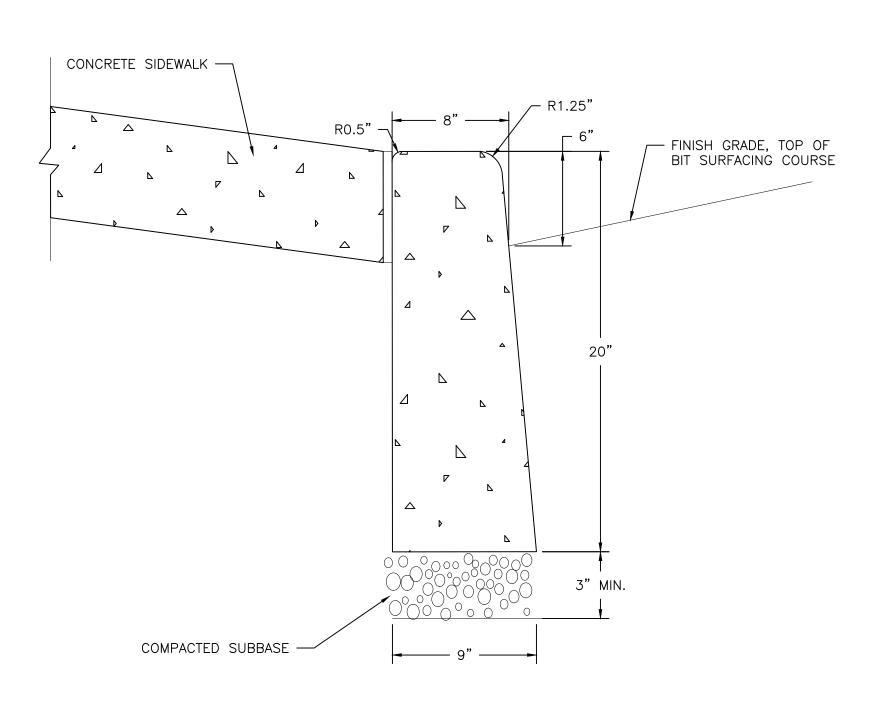




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DETECTABLE WARNING SURFACE N.T.S.





<u>GE</u>	NERAL NOTES:					
2.	LANDING AREA, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP SHALL BE KEPT CLEAR OF OBSTRUCTIONS. DIMENSIONS SHOWN IN TABLES ARE FOR RELATIVELY FLAT SIDEWALK AREAS. CARE SHOULD BE TAKEN WHEN DETERMINING CURB RAMP SIZE BASED ON CURB HEIGHT (H) WHERE ELEVATION OF CURB AND SIDEWALK VARY DRASTICALLY IN AREA OF PROPOSED CURB RAMP. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB				DATE XX/XX/XX	DATE XX/XX/XX
4	RAMPS. SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS CONCRETE SIDEWALK OF					
5. 6.	THE APPROPRIATE ADJACENT THICKNESS. CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS. PREFERRED AND ALTERNATE TREATMENTS SHOULD NOT BE INTERMIXED WITHIN THE SAME INTERSECTION	ENGINEER	1			APPROVED XXX
8.	DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.					CHECKED XXX
<u>CU</u>	RBING GENERAL NOTES	SIONAL)			Н×
1.	ALL CONCRETE SHALL CONFORM TO 2001 NJ D.O.T. STANDARD SPEC.FOR ROAD & BRIDGE CONSTRUCTION SECTION		$\overline{\mathbf{b}}$			
	914 CLASS "B" AIR ENTRAINED. EXPANSION JOINTS SHALL BE AT 10-FOOT INTERVALS AND FILLED WITH A HALF INCH THICK, NON-EXTRUDABLE, FIBROUS, BITUMASTIC MATERIAL.	PROFES				RAWN XXX
4.	 ALL CONCRETE WORK SHALL HAVE A WOOD FLOAT AND TRANSVERSE BROOM FINISH. BROOMING SHALL BE DONE BEFORE INITIAL SET USING A STEEL OR BARN BROOM. SUBBASE SHALL BE FIRM AND APPROVED BY THE MUNICIPALITY NJDOT STANDARDS SPEC. 		-		DRAWN	Δ
7.	FORM WORK SHALL BE APPROVED THE ENGINEER OR HIS REPRESENTATIVE PRIOR TO POURING. THE 8" X 20" CROSS SECTION SHALL BE USED FOR ALL DEPRESSED CURB IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS. PROVIDE 1/2" THICK NON-EXTRUDABLE, FIBROUS BITUMASTIC MATERIAL WHERE CURB MEETS SIDEWALK.					
			DESCRIPTION			

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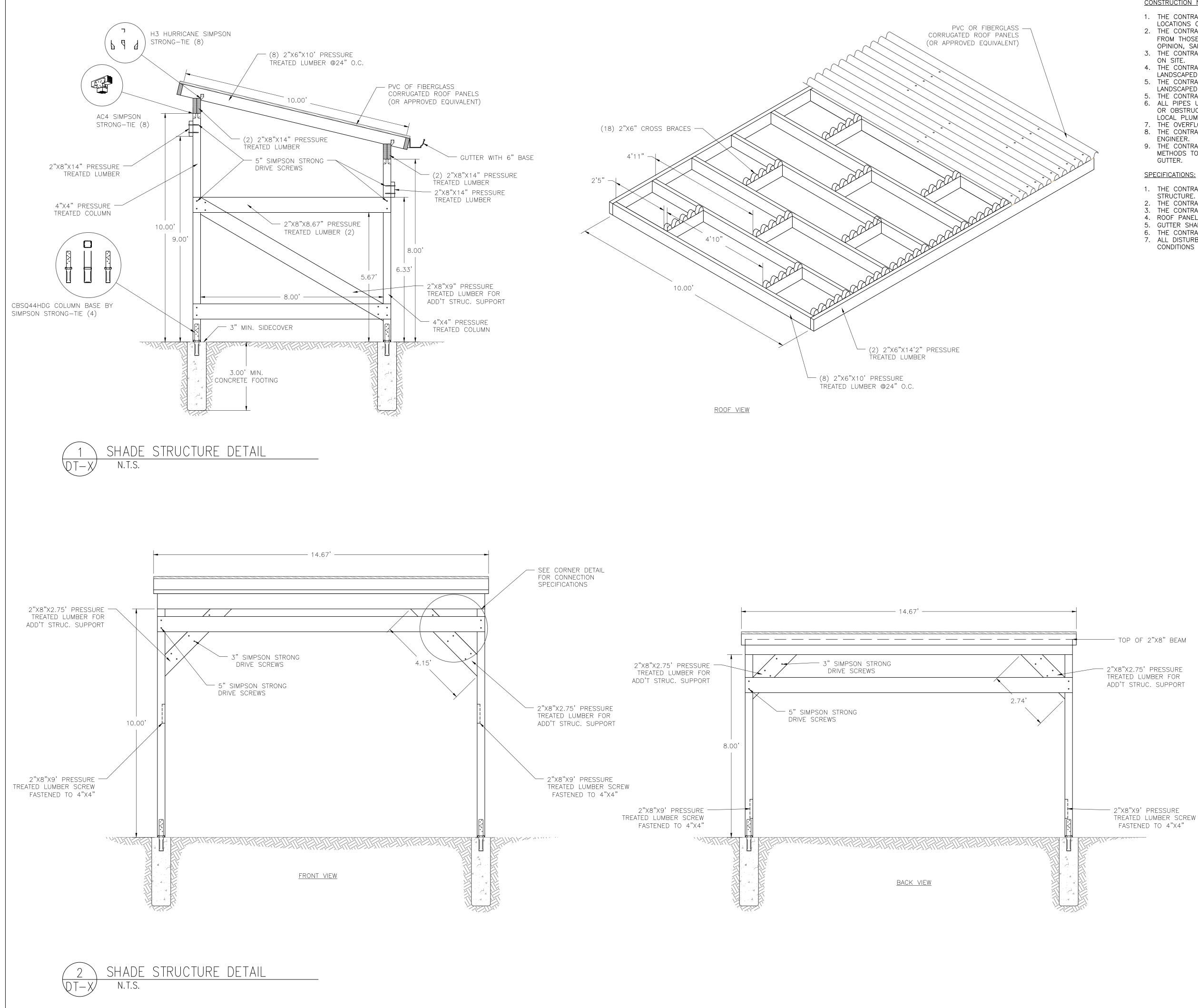
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ER DETAILS

STORMWATER PLANT

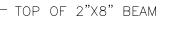


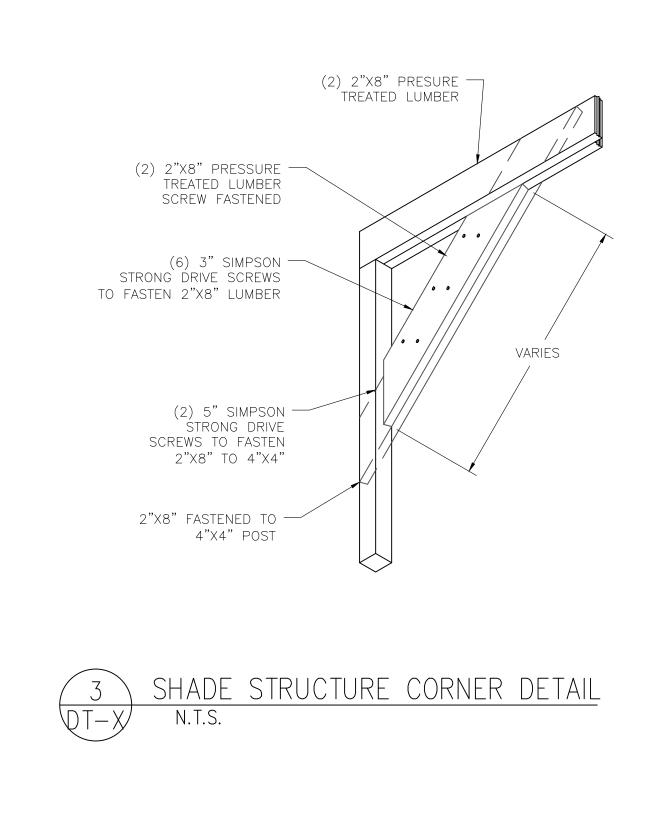
- 1. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO INSTALLATION INCLUDING ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES.
- 2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS DIFFER MATERIALLY FROM THOSE REPRESENTED ON THESE DRAWINGS AND THE SPECIFICATIONS OR IF, IN THE CONTRACTOR'S OPINION, SAID CONDITIONS CONFLICT WITH THE DESIGNS SHOWN HEREON.
- 3. THE CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER PRIOR TO ANY WORK ON SITE.
- 4. THE CONTRACTOR SHALL AVOID DISTURBING EXISTING AREA. ANY DISTURBANCE TO SIDEWALKS OR LANDSCAPED VEGETATION AND TREES MUST BE COORDINATED WITH THE PROPERTY OWNER.
- 5. THE CONTRACTOR SHALL AVOID DISTURBING EXISTING AREA. ANY DISTURBANCE TO SIDEWALKS OR LANDSCAPED VEGETATION AND TREES MUST BE COORDINATED WITH THE PROPERTY OWNER.
- 5. THE CONTRACTOR SHALL USE PVC PIPING FOR CONNECTION FROM ROOF TO CISTERN. 6. ALL PIPES USED FOR CONNECTION FROM SHADE STRUCTURE TO CISTERN SHALL BE CLEAR OF ANY CLOGS
- OR OBSTRUCTIONS. ALL PIPES SHALL BE FITTED AND SECURED WITH ADHESIVE IN CONFORMANCE WITH LOCAL PLUMBING CODES. 7. THE OVERFLOW FROM THE CISTERN SHALL CONNECT TO THE NEAREST STORM SWEWER CATCH BASIN INLET.
- 8. THE CONTRACTOR SHALL NOT MAKE ANY MODIFICATIONS AT THE SITE UNTIL CONSULTING WITH THE ENGINEER. 9. THE CONTRACTOR IS REQUIRED TO SUBMIT SHOP DRAWINGS OF ALL MATERIALS AND CONSTRUCTION

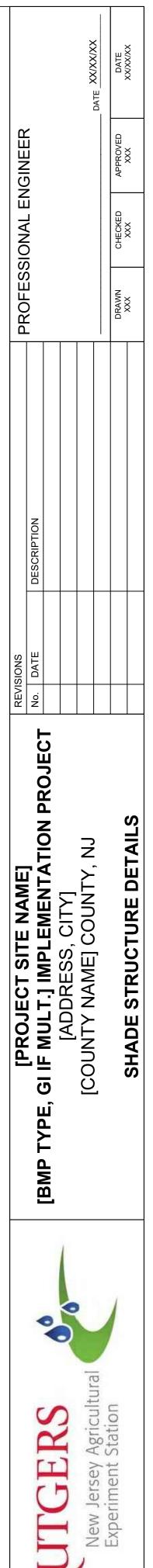
METHODS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE AND INSTALLATION OF GUTTER.

SPECIFICATIONS:

- 1. THE CONTRACTOR SHALL USE SIMPSON TIE IN CONNECTORS AND STRONG DRIVE SCREWS FOR THE SHADE STRUCTURE.
- 2. THE CONTRACTOR SHALL USE PRESSURE TREATED LUMBER.
- 3. THE CONTRACTOR SHALL INSTALL CONCRETE FOOTINGS WITH A MINIMUM 3 FOOT DEPTH. 4. ROOF PANELS SHALL BE CORRUGATED PVC OR FIBERGLASS PANELS.
- 5. GUTTER SHALL HAVE 6" BASE.
- 6. THE CONTRACTOR SHALL ONLY USE CONCRETE WITH 4,500 PSI STRENGTH. 7. ALL DISTURBED AREAS EXCLUSIVE OF THE SHADE STRUCTURE SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR.







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SHEET NAME