CAMDEN COUNTY SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL NOTES

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.
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 THIRTY (30) 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. DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
28. ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
29. USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
30. 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.
31. NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPE PLAN.
32. THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE DISTRICT INSPECTOR.

NOTES CONT.

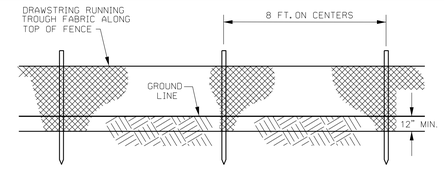
33. INFILTRATION/RECHARGE BASIN CONSTRUCTION PROCEDURE:

A. PHASE 1-DURING STATION CONSTRUCTION

1. THE RECHARGE AREA SHOULD BE CORDONED OFF TO PREVENT HEAVY EQUIPMENT FROM COMPACTING THE UNDERLYING SOILS. BASIN EXCAVATION IS TO BE PERFORMED WITH EQUIPMENT PLACED OUTSIDE THE BASIN BOTTOM. USE LIGHT EARTH MOVING EQUIPMENT, PREFERABLY WITH TRACKS OR OVERSIZED TIRES LOCATED OUTSIDE THE BASIN BOTTOM.
2. EXCAVATION FOR THE PHASE 1 BASIN SHOULD BE AT THE FINAL DESIGN ELEVATION OF THE BASIN BOTTOM.
3. INSTALL THE OUTFALL STRUCTURE AS DESIGNED. THE 4" ORIFICE (MAINTENANCE DRAIN) SHALL BE PLUGGED FOR THE DURATION OF PHASE 1.
4. THE BASIN RECHARGE AREA SHALL REMAIN AT GRADE UNTIL PHASE 2 OF BASIN CONSTRUCTION.

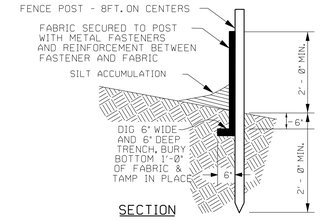
B. PHASE 2-AFTER ALL AREAS CONTRIBUTING TO BASIN INLET STRUCTURES HAVE BEEN STABILIZED.

1. FINAL BASIN EXCAVATION/GRADING SHALL BE INITIATED AFTER COMPLETETION OF ALL SOIL DISTURBANCE WORK IN AND AROUND THE STATION YARD AREA IS COMPLETE.
2. EXCAVATE/GRADE THE INTERIOR SLOPES AND BASIN BOTTOM USING LIGHT EARTH MOVING EQUIPMENT.
3. THE EXCESS SOIL AND ACCUMULATED SILTS, CLAYS, ORGANICS, AND OTHER FINE SEDIMENT MATERIAL SHALL BE REMOVED AND DISPOSED OF BEYOND THE LIMITS OF DIRECT SURFACE RUNOFF AREA.
4. EXCAVATE THE BASIN BOTTOM 6 INCHES BELOW THE DESIGN BOTTOM ELEVATION AND DEEP RAKE THE EXCAVATED AREA WITH A ROTARY TILLER OR DISC HARROW AND SMOOTH OVER WITH LEVELING DRAG OR EQUIVALANT GRADING EQUIPMENT.
5. FILL THE EXCAVATED AREA WITH A 6 INCH LAYER OF SAND. THE SAND LAYER MUST MEET THE SPECIFICATIONS OF A K-5 SOIL. IF THE ONSITE SOIL MEETS THE K-5 SPECIFICATION, THEN ONLY DEEP RAKING THE BOTTOM AREA IS ACCEPTABLE. THIS MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IF NEW JERSEY. CONSTRUCTION VEHICLES SHALL NOT BE ALLOWED ON BOTTOM AFTER DEEP RAKING AND SUBSEQUENT SAND FILLING.
6. THE ENTIRE BASIN AREA, INCLUDING BERM CRESTS AND INSIDE SLOPES, EXCEPT BASIN BOTTOM, SHALL BE SODDED OR MULCHED AND SEEDED IMMEDIATELY AFTER COMPLETION OF PHASE 2 CONSTRUCTION OF THE BASIN.



ELEVATION

NOTES: TO BE USED IN PLACE OF HAY BARRIERS
STANDARD ROLL SIZE IS 100' LONG BY 3' WIDE AS SUPPLIED BY CEDAR HILL INC., SOMERSET, N.J. OR THOMPSON MATERIALS, WHIPPANY, N.J. OR A. H. HARRIS, NEWARK, N.J.

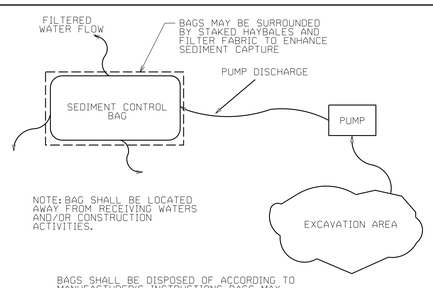


SECTION

SILT FENCE CONSTRUCTION AND INSTALLATION DETAIL

1. FENCE POSTS SHALL BE SPACED 8'-0" CENTER TO CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2'-0" INTO GROUND. THEY SHALL EXTEND AT LEAST 2'-0" ABOVE GROUND.
2. A FILTER FABRIC, RECOMMENDED FOR SUCH USE BY THE MFR., SHALL BE BURIED AT LEAST 6" DEEP IN THE GROUND. THE FILTER FABRIC SHALL EXTEND AT LEAST 2'-0" ABOVE THE GROUND. FILTER FABRIC MAY BE FASTENED IN PLACE BY STAKE OR OTHER ACCEPTED MEANS AS SPECIFIED BY THE DISTRICT OFFICE.

SEDIMENT BARRIERS

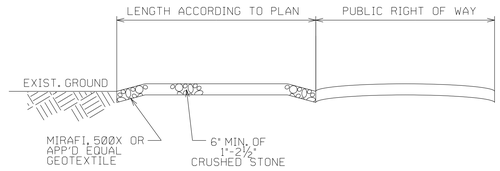


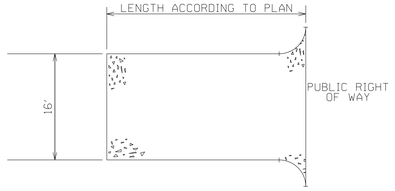
BAGS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. BAGS MAY NOT BE REUSED.

SEDIMENT CONTROL BAG DETAIL
NOT TO SCALE
QTY= AS REQ'D

SLOPES

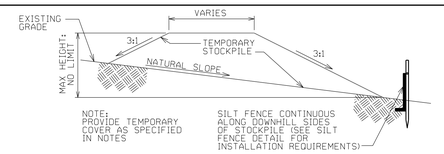
MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS THEY ARE STABILIZED WITH SEED AND MULCH IMMEDIATELY AFTER GRADING.





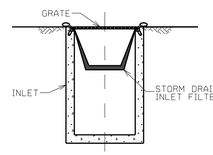
CONSTRUCTION ENTRANCE DETAIL

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOIL	FINE GRAINED SOIL
0 TO 2%	50 FT.	100 FT.
2 TO 5%	100 FT.	200 FT.
>5%	SURFACE STABILIZED WITH HOT MIX ASPHALT BASE COURSE	



NOTES
1. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY.
2. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A SEDIMENT FENCE.
3. STOCKPILES SHOULD BE VEGETATED - SEE VEGETATIVE STANDARDS FOR SOIL STABILIZATION

TOPSOIL STOCKPILE DETAIL
NOT TO SCALE

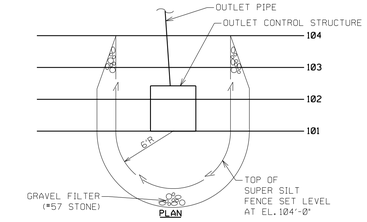


STORM DRAIN INLET PROTECTION
NOT TO SCALE

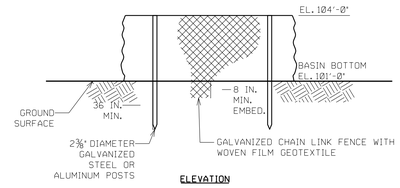
NOTES:
1. SUBMIT STORM DRAIN INLET PROTECTION FOR ENGINEER APPROVAL.
2. THE INLET FILTER MATERIALS AND INSTALLATION SHALL BE PER THE MANUFACTURE'S REQUIREMENTS.
3. THE INLET FILTER SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. WHEN THE FILTER HAS COLLECTED ABOUT 6 INCHES OF SEDIMENT IT SHALL BE REPLACED. THE UNIT SHALL BE REPLACED IF FREE OIL CAN BE SEEN FLOATING AND IS NOT BEING ABSORBED.
4. THE INLET FILTER SHALL BE REMOVED WHEN THE DRAINAGE AREA TO IT IS STABILIZED.
5. INLET PROTECTION SHALL BE INSTALLED ON ANY EXISTING INLETS FOUND WITHIN THE PROJECT AREA.

DUST CONTROL

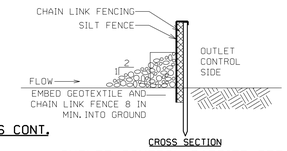
1. DUST SHALL BE CONTROLLED BY COVERING DISTURBED AREAS WITH PERMANENT OR TEMPORARY VEGETATIVE COVER. SEE VEGETATIVE STANDARDS FOR SOIL STABILIZATION.
2. DUST SHALL BE CONTROLLED BY SPRINKLING WATER UNTIL THE SURFACE IS WET.



PLAN



ELEVATION



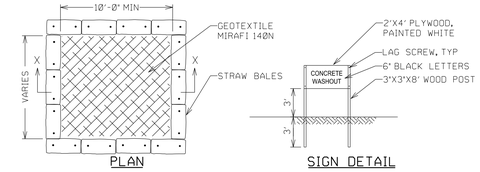
CROSS SECTION

OUTLET CONTROL BARRIER DETAIL

NOTES CONT.

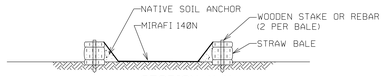
CONSTRUCTION NOTES

1. INSTALL 2⅜" INCH DIAMETER GALVANIZED STEEL POSTS OF 0.095 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2⅜" INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIRES OR HUG RINGS.
3. FASTEN SILT FENCE SECURELY TO THE FLOW SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 8 INCHES INTO THE GROUND.
4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEDIMENT BY PASS.
5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE UPSLOPE, AS SHOW IN THE PLAN VIEW, TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
6. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND GEOTEXTILE.



PLAN

SIGN DETAIL



SECTION X-X

NOTES:
1. SUMP(S) SHALL BE LOCATED AS FAR AWAY FROM WETLANDS, BUFFERS AND DRAINAGE SWALES AS POSSIBLE.
2. SUMP(S) SHALL BE CLEANED AND WASTE CONCRETE REMOVED AS SOON AS WORK IS COMPLETED.
3. FINAL WASHOUT LOCATION AND SETUP SHALL BE APPROVED BY PSE&G ENGINEER.

CONCRETE WASHOUT DETAIL
NOT TO SCALE

NO	DATE	DESCRIPTION	DWN	CKD	EXD	APD
D	09-02-20	COMMENTS INCORPORATED	NP	GP	MDP	
C	04-10-20	COMMENTS INCORPORATED	NP	GP	MDP	
B	03-25-20	COMMENTS INCORPORATED	TAI	GP	MDP	
A	02-24-20	ISSUED FOR REVIEW	TAI	GP	MDP	

REVISION

SYSTEM CODE: Z140
AREA ELEV.: 64ZZ

GENERAL NOTES
USE PRINTS OF LATEST REVISION ONLY.
DO NOT SCALE - USE DIMENSIONS ONLY.
FOR LIST OF REFERENCE DRAWINGS SEE DRAWING NO 760764
THIS DRAWING SUPERSEDES NONE
THIS DRAWING IS SHEET NO 1 OF 1 SHEETS.

NOT FOR CONSTRUCTION

Sargent & Lundy

ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY

PROJ. No. 13739-103

EUGENE R. PORZIO

N.J. PROFESSIONAL ENGINEER
LIC. NO. 34431
C.O.A. 24GA27971100

LAWNSIDE SUBSTATION
69/13 KV SUBSTATION
SOIL EROSION AND SEDIMENT CONTROL NOTES & DETAILS

YARD — CIVIL/ENVIR

PSE&G
PUBLIC SERVICE ELECTRIC AND GAS COMPANY
ELECTRIC DELIVERY COMPANY - ASSET RELIABILITY, NEWARK N.J.

DRAWN T. INTILI | CHECKED G. PORZIO | SCALE NONE
DATE 02/24/20 | EXAMINED
WBS/SO C.92002.1.B.1.2.1 | APPROVED
SARGENT&LUNDY

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A. YEUNG