PRELIMINARY & FINAL SITE PLAN

FOR

THE MERCER COUNTY RENEWABLE ENERGY PROJECT

MERCER COUNTY COMMUNITY COLLEGE

BLOCK 23, LOTS 26.01,26.02, 28, 29, 31, 33, 37, 39, 61, 62, 85, 107, 108
1200 OLD TRENTON ROAD
TOWNSHIP OF WEST WINDSOR, MERCER COUNTY, NEW JERSEY
BLOCK 1512, LOTS 1, 2, 3, 5, 8, AND 22
1200 OLD TRENTON ROAD
TOWNSHIP OF HAMILTON, MERCER COUNTY, NEW JERSEY

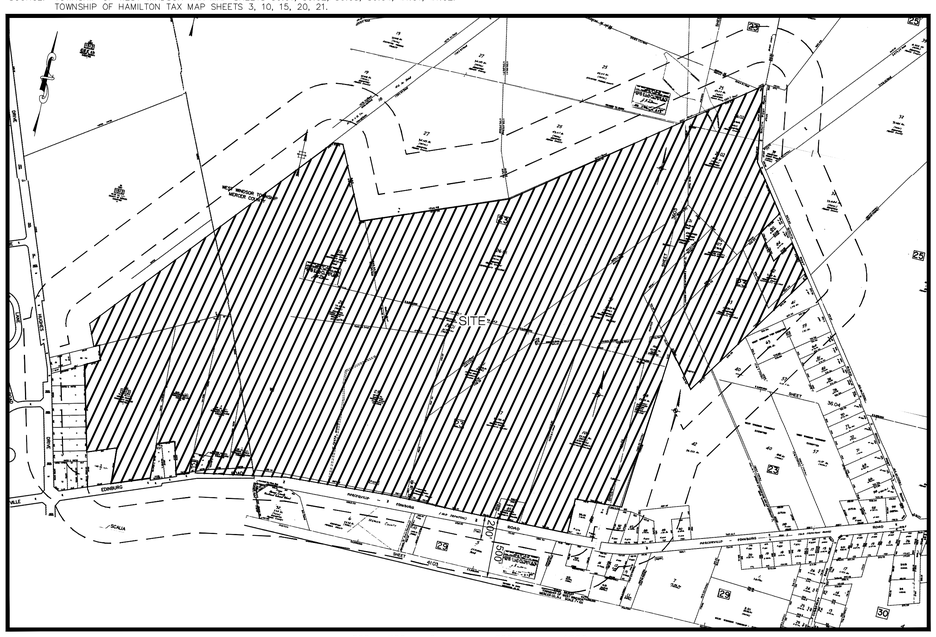
AERIAL MAP

SOURCE: ORTHO PHOTOGRAPHY DEVELOPED BY USGS-EROS DATA CENTER TILES G11A12, G11A4, G11A8, G11B1, G11B5 AND G11B9.

HORIZONTAL SCALE: 1"=600'

KEY MAP

SOURCE: TOWNSHIP OF WEST WINDSOR TAX MAP SHEETS 36.01, 36.02, 36.03, 36.04, 41.01, 41.02.
TOWNSHIP OF HAMILTON TAX MAP SHEETS 3, 10, 15, 20, 21.



HORIZONTAL SCALE: 1"=600'

200' PROPERTY OWNERS LISTS

HAMILTON TOWNSHIP

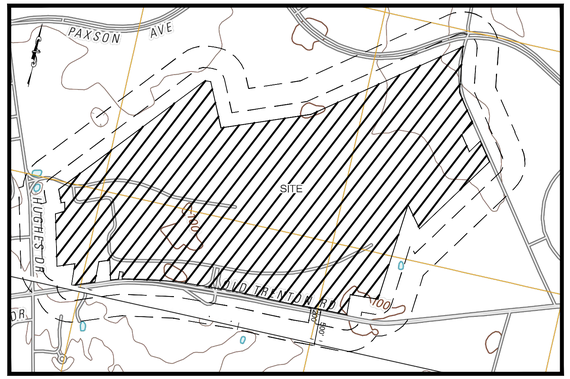
Block	Lot	OWNER	ADDR1	ADDR2	ZipCode
1631	31	Mikovsky Anthony J & Loretta A	1015 Mer-Edinburg Rd	Hamilton Nj	08690
1631	30	Morettoni Anthony N	1013 Mer-Edinburg	Hamilton Nj	08690
1512	23	Gnielli Mario V & Laura J	942 Hughes Dr	Hamilton Nj	08690
1512	14	Dromboski David G	846 Hughes Dr	Hamilton Nj	08690
1631	37	Mercer County Voc School	1085 Old Trenton Rd	Hamilton Nj	08690
1512	20	Farina Louis J Jr & Conchetta	924 Hughes Dr	Hamilton Nj	08690
1512	24	Public Services Corp/Corp Prop Dept	80 Park Plaza	Newark Nj	07102-4194
1512	4	Bell Atlantic Prop Tax Dept	P O Box 152206	Irving Tx	75015-2206
1512	21	Quattromani Shareen	936 Hughes Dr	Hamilton Nj	08690
1512	18	Hannon Joseph M	902 Hughes Dr	Hamilton Nj	08690
1512	17	Mcdonald Bette B	884 Hughes Drive	Hamilton Nj	08690
1512	9	Tindall Dyo D & Dawn L	1018 Mer-Edinburg Road	Hamilton Nj	08690
1512	19	Mulhyne James Jr & Vance Kelly	916 Hughes Dr	Hamilton Nj	08690
1512	6	Johnson Carolynne	8 Edith Drive	Lawrenceville Nj	08648
1512	15	Thompson John W Etux	874 Hughes Dr	Hamilton Nj	08690
1512	10	Saleh Ahmed & Shahida	1012 Mer-Edinburg Rd	Hamilton Nj	08690
1512	16	Mcdonald David T	860 Hughes Dr	Hamilton Nj	08690
1512	12	Mancia Bruce	1411 S Olden Avenue	Hamilton Nj	08610
1631	36	Seniorcare Of Hamilton, Llc	1059 Mer-Edinburg Rd	Hamilton Nj	08690
1512	11	Schadow Anthony R	1008 Mer-Edinburg Rd	Hamilton Nj	08690
1631	33	Ewasikewicz Laura Etux	1019 Edinburg Rd	Hamilton Nj	08690
1631	32	Dileo Frank A	1017 Mer-Edinburg Rd	Hamilton Nj	08690
1512	8	Mcc Trust C/O Accounting Dept	Box B 3200 Old Trenton Rd	Hamilton Nj	08690
1512	7	Lake Edward & Brenzie Kelly	1048 Mer-Edinburg Rd	Hamilton Nj	08690
1512	13	Hendrick Richard & Lorraine	834 Hughes Dr	Hamilton Nj	08690
1631 34.01		Crestwood Construction, Llc	2445 Kuser Rd Ste #104	Hamilton Nj	08690
1631 34.02		Landolfi Ralph	1 Rose Everett Court	Hamilton Nj	08690
1631 34.03		Barmore Steven L & Sandy	3 Rose Everett Court	Hamilton Nj	08690

WEST WINDSOR TOWNSHIP

Block	Lot	Name Address
		Please find the requested list generated by this office. Please note the statement at the bottom of this form when utilizing the following pages.
23	20, 19 25, 27	County of Mercer-Park Commission, PO Box 8068, Trenton, NJ 08650-0068
23	26.01, 26.02	Mercer County Community College, 1200 Old Trenton Road, West Windsor, NJ 08550
23	80	Fernando & Jona Mendoza, 436 Liberty Avenue, Jersey City, NJ 07307
23	84	Frances Wake, 340 South Post Road, West Windsor, NJ 08550
23	28, 32	County of Mercer-Park Commission, PO Box 8068, Trenton, NJ 08650-0068
23	41	Christopher Michel, c/o Olga Michal, 364 South Post Road, West Windsor, NJ 08550
23	59	Jeffrey Hauser, 372 South Post Road, West Windsor, NJ 08550
23	40, 42, 63	West Windsor Township, 271 Clarksville Road, West Windsor, NJ 08550
23	89	Enzo Nizi, 410 Whitehead Road, Hamilton, NJ 08619
23	88	Steve R. Materia, 1390 Old Trenton Road, West. Windsor, NJ 08550
23	87	Michael & Holly McQuade, 1370 Old Trenton Road, West Windsor, NJ 08550
23	92	Vikram Singh, 1300 Old Trenton Road, West Windsor, NJ 08550
23	75	Emad & Safaa Omar, 1290 Old Trenton Road, West Windsor, NJ 08550
23	77.01	Robert Lagana, 1280 Old Trenton Road, West Windsor, NJ 08550
23	30.01	Mark & Stanley Dzielonski, PO Box 484, Hellsboro, PA 18954
29	4.02	Gary B. & Nancy E. Tindall, 1275 Old Trenton Road, West Windsor, NJ 08550
29	4.01, 5	Leone Tindall Family Ltd. Partnership, 1263 Old Trenton Road, West Windsor, NJ 08550
29	10	Frank & Jaime Palecek, 1151 Old Trenton Road, West Windsor, NJ 08550
29	6	County of Mercer, PO Box 1777, Trenton, NJ 08607
29	32	Mercer County VOC Schools, Bd of Ed, 635 Greenwood Ave., Trenton, NJ 08609
		Notification also required for:
		Hamilton Township, Clerk's Office, 2090 Greenwood Avenue, Hamilton, NJ 08650-0159
		Andy Cortes, Area Constr. Supervisor-Monmouth Cluster, 751 Brick Blvd., Brick, NJ 08723
		Mercer County Dept. of Transportation, 640 S. Broad St., Admin. Bldg, Room 301, Trenton, NJ 08650
		Public Service Electric and Gas Company, Manager-Corporate Properties, 80 Park Plaza, T6B, Newark, NJ 07102
		Sunoco Pipeline L.P., Right of Way Dept., Montello Complex, 525 Fritztown Road, Sinking Spring, PA 19608
		List prepared and certified by:

USGS MAP

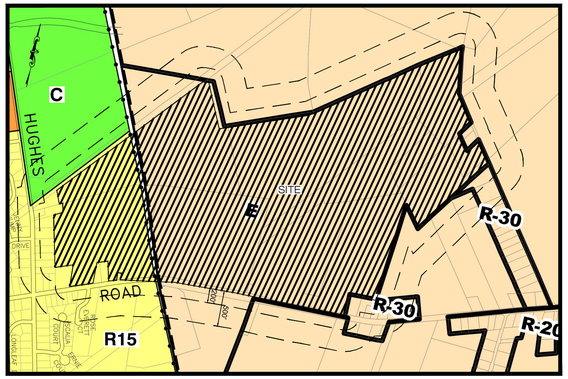
SOURCE: 2011 PRINCETON AND TRENTON-EAST USGS QUADRANGLE MAPS (7.5 MINUTE SERIES).



VERTICAL SCALE: 1"=1000'

ZONING MAP

SOURCE: TOWNSHIP OF WEST WINDSOR ZONING MAP, 2010. TOWNSHIP OF HAMILTON ZONING MAP, 2008.
TOWNSHIP OF WEST WINDSOR ZONE= E-EDUCATION, TOWNSHIP OF HAMILTON ZONE= R15-SINGLE FAMILY RESIDENTIAL



VERTICAL SCALE: 1"=1000'

SHEET INDEX

1	COVER SHEET
2	EXISTING CONDITIONS PLAN
3	SITE LAYOUT PLAN
4	SOIL EROSION AND SEDIMENT CONTROL PLAN
5	SOIL EROSION AND SEDIMENT CONTROL DETAILS
6	CONSTRUCTION DETAILS

DEVELOPER:
SUNLIGHT GENERAL
MERCER SOLAR, LLC
28 WEST 44TH STREET, SUITE 1011
NEW YORK, NY 10036

NOTES:

1. ELEVATIONS ARE BASED UPON NAVD 88 DERIVED USING LEICA GX1230+GPS RECEIVERS AND NEW JERSEY SMARTNET NETWORK.

REFERENCES:

1. MAP ENTITLED 'BOUNDARY AND TOPOGRAPHIC SURVEY OF LANDS OF MERCER COUNTY COMMUNITY COLLEGE PREPARED FOR BOARD OF TRUSTEES MCCC, SITUATED IN HAMILTON TWP. & WEST WINDSOR TWP., MERCER CO. N.J.', PREPARED BY VAN NOTE - HARVEY ASSOCIATES, P.C., DATED MAY 29, 2008, LAST REVISED 8-12-08, SHEET 1.

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CERTIFICATE OF AUTHORIZATION #24GA28178300

JOSEPH D. HANRAHAN
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NJ LICENSE NUMBER 40339
PA LICENSE NUMBER 76067

POWER PARTNERS

THE MERCER COUNTY RENEWABLE ENERGY PROJECT
MERCER COUNTY COMMUNITY COLLEGE
1200 OLD TRENTON ROAD
WEST WINDSOR, NJ 08550

KMB PROJECT NO.
732.0108

DRAWING TITLE
COVER SHEET

DRAWING SCALE
SCALE: AS NOTED

DRAWN BY:	CHECKED BY:	DATE:
DEK	CLM	02.01.12

DWG NO.
SP-01

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SOUTH POST ROAD
Width Varies

WEST WINDSOR PARKWAY

MERCERVILLE (OLD TRENTON) – EDINBURG ROAD
Variable Width R.O.W. (Per Tax Map)

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THE MERCER COUNTY RENEWABLE ENERGY PROJECT

MERCER COUNTY COMMUNITY COLLEGE
1200 OLD TRENTON ROAD
WEST WINDSOR, NJ 08550

KMB PROJECT No:
732.0108

DRAWING TITLE
EXISTING CONDITIONS PLAN

DRAWING SCALE:
SCALE: 1" = 200'

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EXISTING UNDISTURBED ACCESS WAY

REGULATED WATER

50' WETLANDS BUFFER

300' RIPARIAN BUFFER

INTERMEDIATE RESOURCE VALUE SWALE

8' HIGH CHAINLINK FENCE

20' WIDE GATE

SWITCH GEAR PAD

GRASS PATHWAY

PRIMARY GATE 20'

20' WIDE GATE

GRASS PATHWAY

INVERTER (TYP.)

FRESHWATER WETLANDS LINE AS VERIFIED BY NJDEP DLUR #1100-11-0002.1

ORDINARY RESOURCE VALUE SWALE

REGULATED WATER

EXISTING PATHWAY (EMERGENCY ONLY)

300' RIPARIAN BUFFER

20' WIDE GATE

8' HIGH CHAINLINK FENCE

GRASS PATHWAY

2' HIGH TEMPORARY BERM FOR HEAVY CONSTRUCTION TRAFFIC (TYP)

20' WIDE GATE

EXISTING SUNOCO PIPELINE

SOLAR ARRAYS (TYP.)

SOUTH POST ROAD

WEST WINDSOR TOWNSHIP

HAMILTON TOWNSHIP

MERCERVILLE (OLD TRENTON) – EDINBURG ROAD
Variable Width R.O.W. (Per Tax Map)

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MERCER COUNTY COMMUNITY COLLEGE
1200 OLD TRENTON ROAD
WEST WINDSOR, NJ 08550

KMB PROJECT No: **732.0108**

DRAWING TITLE: SITE LAYOUT PLAN

DRAWING SCALE: SCALE: 1" = 200'

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300' RIPARIAN BUFFER
SOLAR ARRAY (TYP)
50' WETLANDS BUFFER
INTERMEDIATE RESOURCE VALUE SWALE
LIMIT OF CLEARING/ DISTURBANCE (TYP.)
ORDINARY RESOURCE VALUE SWALE
SILT FENCE (TYP.)
FRESHWATER WETLANDS LINE AS VERIFIED BY NJDEP DLUR #1100-11-0002.1
INVERTER (TYP.)
100' LONG STABILIZED CONSTRUCTION ENTRANCE
REGULATED WATER
300' RIPARIAN BUFFER
SILT FENCE (TYP.)
TREE REMOVAL (TYP)
100' LONG STABILIZED CONSTRUCTION ENTRANCE
SOLAR ARRAY (TYP)
LIMIT OF CLEARING/ DISTURBANCE (TYP.)
LANDSCAPE BERM AREA (TYP.)
LIMIT OF DISTURBANCE (TYP)
APPROX. 860' HOME RUN DIRECT BURIAL MV CABLE
APPROX. 1950' HOME RUN DIRECT BURIAL MV CABLE
APPROX. 590' HOME RUN UNDERGROUND MV CABLE DIRECTIONAL BORE
LIMIT OF DISTURBANCE (TYP)
100' LONG STABILIZED CONSTRUCTION ENTRANCE
TREE REMOVAL (TYP)
CONSTRUCTION STAGING AREA
100' LONG STABILIZED CONSTRUCTION ENTRANCE
TREE REMOVAL (TYP)
SOUTH POST ROAD
WEST WINDSOR TOWNSHIP
HAMILTON TOWNSHIP
MERCERVILLE (OLD TRENTON) – EDINBURG ROAD
Variable Width R.O.W. (Per Tax Map)
MERCERVILLE (OLD TRENTON) – EDINBURG ROAD
(Per Tax Map)
TOPSOIL STOCK PILE
SUBSOIL STOCK PILE
1 MW
500kW

NOTES:

1. CONTRACTOR SHALL IMMEDIATELY REMOVE ALL SEDIMENT WASHED, TRACKED, PAVED OR SPILLED ONTO PAVED SURFACES.
2. FOR COMPACTED AREAS THAT REQUIRE SOIL REMEDIATION PLEASE SEE CONSTRUCTION SEQUENCE ON SOIL EROSION AND SEDIMENT CONTROL DETAIL SHEET.
3. TOPSOIL MUST BE STRIPPED AND STOCKPILED SEPARATELY FROM THE SUBSOIL FOR THE DIRECT BURIAL MV CABLE AREA.
4. ONLY PERMANENT GRADE CHANGES ARE AT THE LANDSCAPE BERM AREA. IF CONTRACTOR SHALL PROVIDE ANY TEMPORARY GRADE CHANGES, CONTRACTOR MUST RETURN TEMPORARY GRADE BACK TO ORIGINAL GRADE ELEVATION.
5. ALL TREES WITHIN LIMIT OF DISTURBANCE TO BE REMOVED.

LIMIT OF DISTURBANCE:
68.3 ACRES

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POWER PARTNERS

THE MERCER COUNTY RENEWABLE ENERGY PROJECT
MERCER COUNTY COMMUNITY COLLEGE
1200 OLD TRENTON ROAD
WEST WINDSOR, NJ 08550

KMB PROJECT No: 732.0108

DRAWING TITLE: SOIL EROSION AND SEDIMENT CONTROL PLAN

DRAWING SCALE: SCALE: 1" = 200'

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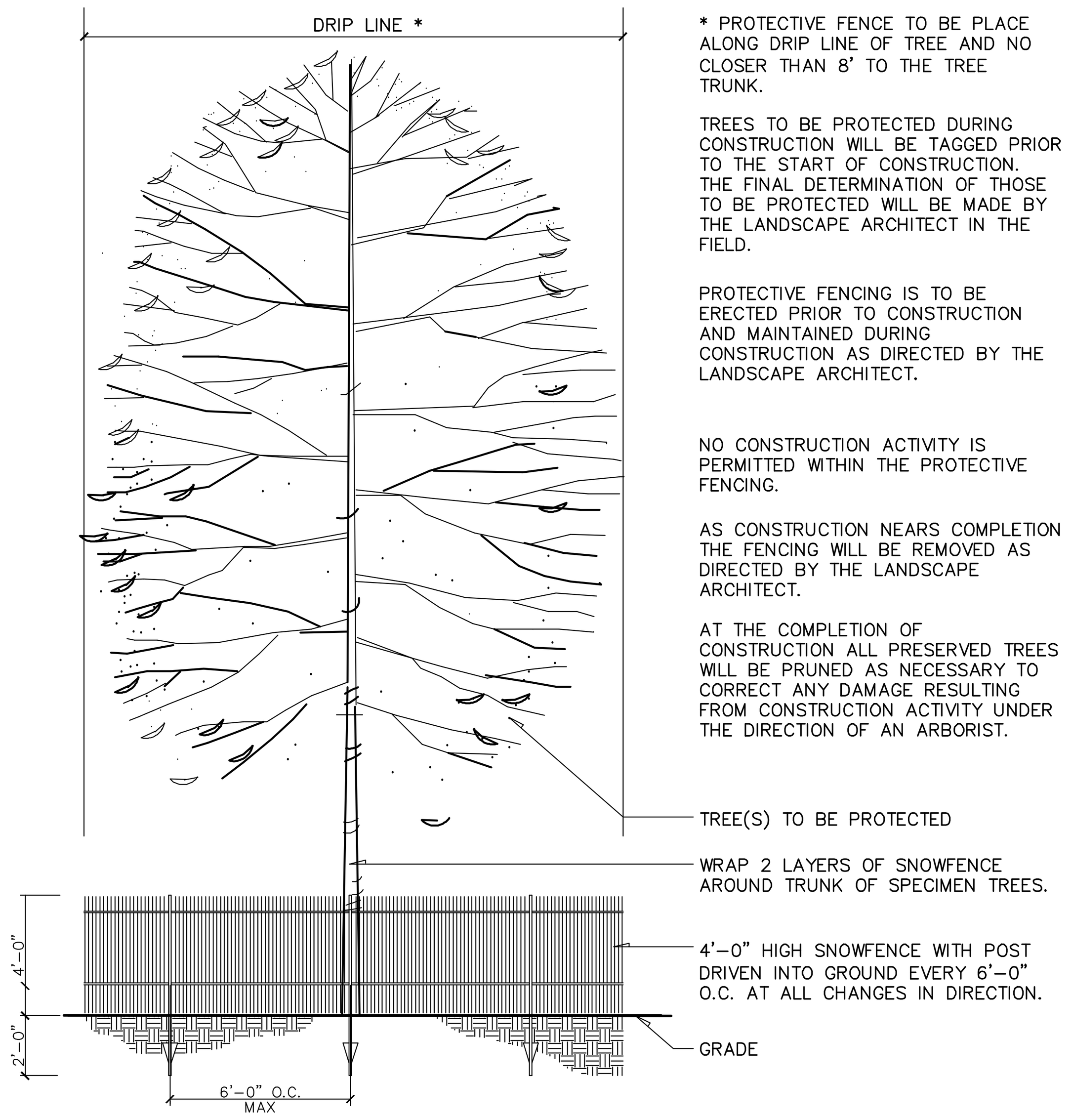


* PROTECTIVE FENCE TO BE PLACE ALONG DRIP LINE OF TREE AND NO CLOSER THAN 8' TO THE TREE TRUNK.

TREES TO BE PROTECTED DURING CONSTRUCTION WILL BE TAGGED PRIOR TO THE START OF CONSTRUCTION. THE FINAL DETERMINATION OF THOSE TO BE PROTECTED WILL BE MADE BY THE LANDSCAPE ARCHITECT IN THE FIELD.

PROTECTIVE FENCING IS TO BE ERECTED PRIOR TO CONSTRUCTION AND MAINTAINED DURING CONSTRUCTION AS DIRECTED BY THE LANDSCAPE ARCHITECT.

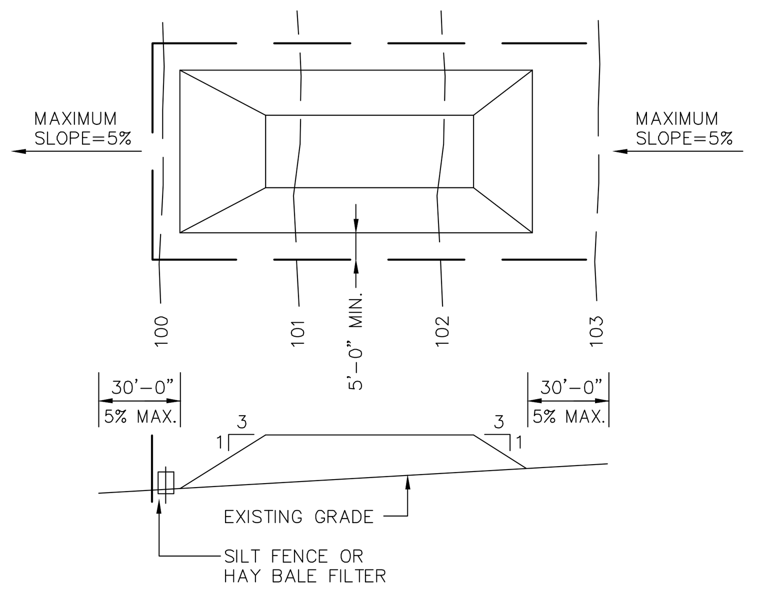
NO CONSTRUCTION ACTIVITY IS PERMITTED WITHIN THE PROTECTIVE FENCING.

AS CONSTRUCTION NEARS COMPLETION THE FENCING WILL BE REMOVED AS DIRECTED BY THE LANDSCAPE ARCHITECT.

AT THE COMPLETION OF CONSTRUCTION ALL PRESERVED TREES WILL BE PRUNED AS NECESSARY TO CORRECT ANY DAMAGE RESULTING FROM CONSTRUCTION ACTIVITY UNDER THE DIRECTION OF AN ARBORIST.

TREE PROTECTION DETAIL

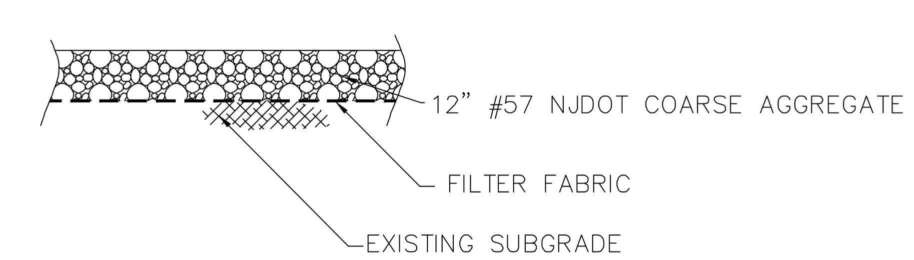
N.T.S.



NOTES:
1. PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. ALL SIDE SLOPES SHALL BE 3 TO 1 OR FLATTER.
3. ONCE SHAPED, TEMPORARY STOCKPILE SHALL RECIEVE A VEGETATIVE COVER IN ACCORDANCE WITH TEMPORARY VEGETATIVE COVER STANDARDS SHOWN HEREON.
4. SILT FENCE OR HAY BALE FILTER SHALL BE INSTALLED AS DETAILED HEREON.

TEMPORARY STOCKPILE DETAIL

N.T.S.



NOTES:
1. TEMPORARY ACCESS PATH ONLY TO PROVIDED FOR UNUSABLE PATHWAYS AS DIRECTED BY MCSCD INSPECTOR/ENGINEER.
2. REMOVE TOPSOIL.
3. EXCAVATE TO A DEPTH OF 12".
4. PLACE #57 COARSE AGGREGATE IN ONE 12" THICK LIFT.

TEMPORARY ACCESS PATH SECTION

N.T.S.

SEQUENCE OF CONSTRUCTION:

1. PERFORM IN PLACE DENSITY TESTING OF EXISTING SOIL USING STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL IN PLACE BY SAND CONE METHOD ASTM D1556 (MINIMUM OF 1 TEST PER CONSTRUCTION AREA AS SHOWN ON DENSITY TEST LOCATION PLAN DT-01). EXACT LOCATION TO BE RECORDED USING GPS SURVEY EQUIPMENT (2 DAYS).
2. INSTALL SILT FENCE (1 WEEK)
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE (1 DAY)
4. INSTALL CHAINLINK FENCE (3 WEEKS)
5. EXISTING VEGETATION (INCLUDING ROW CROPS, MEADOW, OPEN SPACE) TO BE CUT DOWN TO FOUR (4) TO SIX (6) INCHES IN HEIGHT WITH TRACTOR MOWER. ALL TREES WITHIN LIMIT OF DISTURBANCE TO BE REMOVED WITH BULLDOZER, SKIDDER, OR EXCAVATOR. TREE STUMPS TO BE GROUNDED DOWN TO EXISTING GRADE. TOPSOIL AND SUBSOIL MUST BE STOCKPILED SEPARATELY TO PREVENT COMMINGLING (2 WEEKS)
6. CLEAR AND STABILIZE ACCESS PATHS AS NECESSARY. PATHS MAY REQUIRE LEVELING AND COMPACTION BY BULLDOZER. ANY AREAS ALONG ACCESS PATHS THAT REQUIRE SURFACE DISTURBANCE ARE TO BE SEEDED WITH THE MCSCD APPROVED TEMPORARY MIX FOR STABILIZATION. (1 WEEK)
7. INSTALL UNDERGROUND CONDUIT FOR SOLAR ARRAY FIELD USING MINI EXCAVATOR. STRIP TOPSOIL, STOCKPILE TOPSOIL AND SUBSOIL SEPARATELY TO PREVENT COMMINGLING. (1 WEEK)
8. INSTALL GROUND MOUNTING SYSTEM AND SOLAR ARRAY FIELD WITH HYDRAULIC RAM AND SMALL TELEHANDLER FORKLIFT. (4 WEEKS)
9. INSTALL INVERTERS, SWITCHGEAR AND AND TRANSFORMERS. ITEMS TO BE CARRIED BY LARGE TELEHANDLER FORKLIFT (6 WEEKS).
10. TO DETERMINE AREAS OF COMPACTION/AREAS TO REQUIRE REMEDIATION - GEOTECHNICAL ENGINEER SHALL PERFORM IN PLACE DENSITY TESTING PER ASTM D1556 STANDARD TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL IN PLACE BY THE SAND CONE METHOD. TEST LOCATIONS SHALL BE AT THE EXACT LOCATIONS AS INITIAL TESTING INDICATED IN CONSTRUCTION SEQUENCE ITEM 1. (1 DAY)
11. ACCESS PATHS THAT HAVE BEEN COMPACTED AS DETERMINED IN CONSTRUCTION SEQUENCE ITEM 10 MUST BE REMEDIATED. THIS WILL CONSIST OF 5" STRIPPING OF TOPSOIL, SCARIFYING THE SUBSOIL TO A DEPTH OF 6", AND PLACEMENT OF A MINIMUM OF 5" OF UNSETTLED TOPSOIL. (1 WEEK)
12. REMAINING AREAS THAT HAVE BEEN COMPACTED AS DETERMINED IN CONSTRUCTION SEQUENCE ITEM 10 MUST BE REMEDIATED. THIS WILL CONSIST OF SCARIFYING THE SUBSOIL TO A DEPTH OF 6" AND STABILIZING SOIL WITH MCSCD PREFERRED SEED MIX FOR PERMANENT VEGETATIVE COVER (1 WEEK)
13. INSTALL MAIN ELECTRIC FEED TO EXISTING ELECTRIC SUB-STATION. STRIP TOPSOIL AND STOCKPILE TOPSOIL AND SUBSOIL SEPARATELY TO PREVENT COMMINGLING. (2 WEEKS)
14. REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES. (1 WEEK)

LIST OF ESTIMATED CONSTRUCTION VEHICLES/LIMITATIONS:

LIGHTWEIGHT CONSTRUCTION VEHICLES

1. SMALL TELEHANDLER FORKLIFT - 10,800 LB - USED FOR CARRYING FENCES, PANELS, RACKING, WIRE AND CONDUIT
2. SKID STEER - 3,000 LB - USED FOR CARRYING FENCES, PANELS, RACKING, WIRE AND CONDUIT
3. HYDRAULIC RAM - 6,834 TO 8,377 LBS - USED TO INSTALL GROUND MOUNTING SYSTEM INTO THE GROUND
4. MINI EXCAVATOR - 4,000 LB - USED FOR TRENCHING
5. TRACTOR MOWER - 3,500 LB - USED FOR VEGETATION (ROW CROPS, MEADOW, OPEN SPACE) REMOVAL

HEAVY CONSTRUCTION VEHICLES

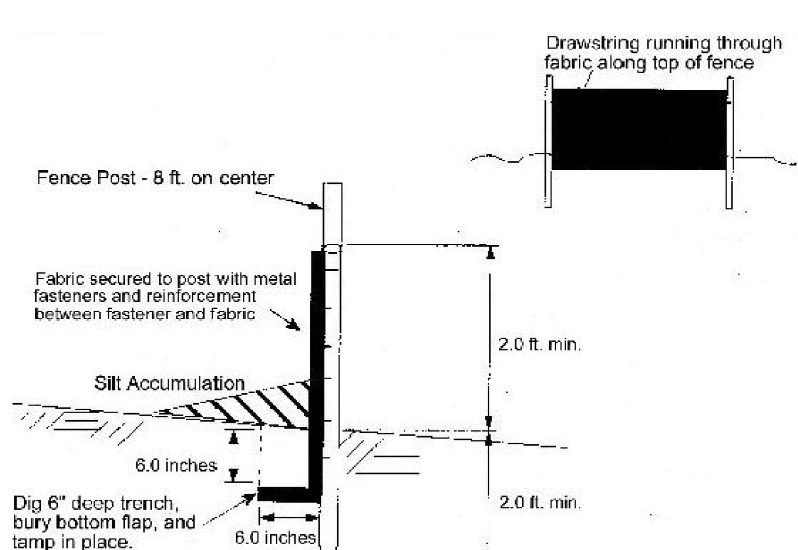
6. BULLDOZER - 21,000 LB - USED FOR TREE REMOVAL, ESTABLISHING ACCESS PATHS, MINOR GRADING, STRIPPING OF TOPSOIL, AND REMEDIATION OF COMPACTED AREAS
7. LARGE TELEHANDLER FORKLIFT - 35,100 LB - (INFREQUENT TRIP AMOUNTS) USED TO CARRY INVERTERS, TRANSFORMERS, AND SWITCHGEAR
8. SKIDDER - 40,000 LB - USED FOR TREE REMOVAL ONLY
9. EXCAVATOR - 52,000 LB - USED FOR TREE REMOVAL ONLY
10. DUMP TRUCK - 52,350 LB (UNLOADED)/92,350 LB (LOADED) - USED FOR HAULING OF REMOVED TREES, HAULING AWAY COMMINGLED TOPSOIL/SUBSOIL, HAULING IN TOPSOIL
11. TREE GRINDER - 40,000 LB - USED FOR TREE GRINDING

VEHICLE LIMITATIONS

12. DURING RAINFALL EVENTS OF ONE-HALF INCH (1/2") OF RAINFALL OR MORE, ONLY LIGHT WEIGHT CONSTRUCTION VEHICLES WILL BE ALLOWED FOR CONSTRUCTION UNTIL SITE CONDITIONS IMPROVE TO A DRY CONDITION.
13. HEAVY CONSTRUCTION EQUIPMENT ONLY ALLOWED ON ACCESS PATHS AND ALSO PERMITTED IN THEIR PRESCRIBED WORK AREA (SUCH AS TREE CLEARING).

NOTE

14. EQUIVALENT SUBSTITUTIONS FOR CONSTRUCTION VEHICLES ARE PERMISSIBLE IF WEIGHTS ARE ADHERED TO.



SILT FENCE DETAIL

N.T.S.

MERCER COUNTY SCD'S REQUIREMENTS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION:

1. TOPSOIL STRIPPING AND STOCKPILING
   A. FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR SURFACE SOIL JUSTIFIES STRIPPING
   B. A 6-INCH STRIPPING DEPTH IS TYPICAL, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL STRUCTURE OR PRE-EXISTING USE.
   C. STOCKPILES SHOULD BE LOCATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE, AND SHALL BE DELINEATED ON THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN AND BE CONSTRUCTED IN ACCORDANCE WITH THE TOPSOIL STOCKPILE DETAIL
   D. STOCKPILES SHOULD BE TEMPORARILY STABILIZED ACCORDING TO THE STANDARDS.
2. SITE PREPARATION
   A. INSTALL EROSION CONTROL MEASURES AND FACILITIES SUCH AS SILT FENCE, DIVERSIONS, SEDIMENT BASINS, AND CHANNEL STABILIZATION.
   B. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, TACKING, AND MAINTENANCE. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING, 19-1.
3. SEEDBED PREPARATION
   A. TOPSOIL REQUIRED

      MIN. DEPTH: 5" (UNSETTLED)
      pH: 6.0 TO 8.0
      ORGANIC MATTER CONTENT: 2.75% MIN.
      NITRATE N2: 50LBS/ACRE (50% WATER INSOLUBLE)
      PHOSPHOROUS: 100LBS/ACRE
      POTASSIUM: 50LBS/ACRE

   B. THE CONTRACTOR SHOULD BE AWARE OF THE POSSIBILITY, DEPENDING UPON THE SITE CONDITIONS, THAT ALL TOPSOIL MAY HAVE TO BE PROVIDED FROM AN OFF-SITE SOURCE.
   C. TOPSOIL SHOULD BE HANDLED ONLY WHEN DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE.
   D. APPLY A UNIFORM 5 INCHES (UNSETTLED) OF TOPSOIL ON ALL DISTURBED AREAS. SOILS WITH A pH OF 4.0 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM DEPTH OF 12 INCHES OF SOIL HAVING A pH OF 5.0 OR MORE AND THE TOP 5 INCHES SHALL CONFORM TO THE TOPSOIL STANDARD AND SHALL BE LIMED ACCORDING TO THE SPECIFICATIONS.
   E. IF THE TOPSOIL BECOMES COMPACTED, THE SURFACE MUST BE SCARIFIED 6" TO 12" TO PROVIDE GOOD SEED-TO-SOIL BOND.
   F. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS THOSE OFFERED BY RUTGERS UNIVERSITY COOPERATIVE EXTENSION. IF SOIL TESTING IS NOT FEASIBLE, FERTILIZER (10-20-10) WITH 50% WATER INSOLUBLE NITROGEN SHOULD BE APPLIED AT THE TYPICAL RATE OF 500LBS/ACRE OR 11LBS/1,000 SQUARE FEET.
   G. APPLY LIMESTONE EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES (PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK - TRENTON FALL LINE) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LBS/1,000 SQ. FT.
CLAY, CLAY LOAM, HIGH ORGANIC	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

   H. WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES. THE FINAL HARROWING OR DISC OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A UNIFORM, FINE SEEDBED IS PREPARED.
   I. REMOVE FROM THE SURFACE ALL STONES 2 INCHES OR LARGER IN ANY DIMENSION, AND OTHER OBJECTIONABLE STONES OR DEBRIS SUCH AS WIRE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
4. SEEDING
   A. SELECT A SEED MIXTURE APPROVED BY THE MERCER COUNTY SCD.
   B. APPLY SEED UNIFORMLY BY HAND, CYCLONES, DROP SEEDER, DRILL CULT-IPACKER, OR HYDRO-SEEDER*. THE LATTER MAY BE JUSTIFIABLE FOR LARGE, STEEP AREAS WHERE CONVENTIONAL APPLICATIONS ARE NOT FEASIBLE. HYDROSEEDING SHALL BE A TWO-STEP PROCESS: MULCH SHALL NOT BE MIXED WITH THE SEED; THE SEED MUST BE APPLIED FIRST TO ASSURE PROPER SEED TO SOIL CONTACT. THE HYDRO-MULCH IS THE SPRAYED OVER THE SEEDING. FOR OPTIMUM RESULTS, THE SEED SHOULD BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH DEPENDING UPON THE SPECIES.

      *THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE STANDARDS.

   C. AFTER SEEDING, THE SOIL SHOULD BE PACKED WITH A CORRUGATED ROLLER. WHEN PERFORMED ON THE CONTOUR, ROLLING WILL MINIMIZE SHEET EROSION AND MAXIMIZE WATER CONSERVATION.
5. MULCHING
   A. UNROTTED STRAW, HAY FREE OF SEEDS, OR SALT HAY IS REQUIRED ON ALL SEEDING AT A RATE OF 1.5 TO 2 TONS/ACRE, (70 TO 90 LBS./1,000 SQUARE FEET), EXCEPT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER, THEN THE RATE OF APPLICATION IS 3 TONS PER ACRE.
   B. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS DUE TO WIND OR WATER. THIS MAY BE DONE ACCORDING TO THE FOLLOWING METHODS:

1. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 LBS/ACRE APPLIED BY THE HYDRO-SEEDER. USE IS LIMITED TO ONLY THE OPTIMUM SEEDING SEASON.
2. SYNTHETIC OR ORGANIC BINDERS.
3. PEG AND TWINE, MULCH NETTING, AND MECHANICAL CRIMPING.
4. CRIMPING REQUIRES A HIGHER MULCH RATE (3 TONS/ACRE)

6. TEMPORARY SEEDING MIXES

MIX: EARLY SPRING/ LATE SUMMER TO EARLY FALL	MIX: LATE FALL	MIX: MID-SUMMER
100% PERENNIAL RYEGRASS RATE: 100LBS/ACRE	100% CEREAL RYE RATE: 112LBS/ACRE	40% PEARL MILLET 40% MILLET (GERMAN OR HUNGARIAN) 20% WEEPING LOVEGRASS RATE: 100LBS/ACRE

7. RECOMMENDED PERMANENT SEEDING MIXES

OPTIMUM SEEDING DATES: MARCH 1 TO MAY 15 AND AUGUST 15 TO OCTOBER 15
LAWNS - RATE 200LBS/ACRE

MERCER CO. SCD PREFERRED MIX FOR LAWNS AND DETENTION BASINS
70% TURF TYPE TALL FESCUE*#
20% PERENNIAL RYEGRASS
10% KENTUCKY BLUEGRASS

MIX: LAWNS - LOW MAINTENANCE, DROUGHTY & HEAVY TRAFFIC
80% TALL FESCUE TURF TYPE (LOW GROWING VARIETIES)*#
20% PERENNIAL RYEGRASS (LOW GROWING VARIETIES)

(*INCLUDE AT LEAST THREE VARIETIES IN MIX)
(#EXCLUDE K-31)

MERCER COUNTY SOIL CONSERVATION DISTRICT
508 HUGHES DRIVE
HAMILTON SQUARE, NJ 08690

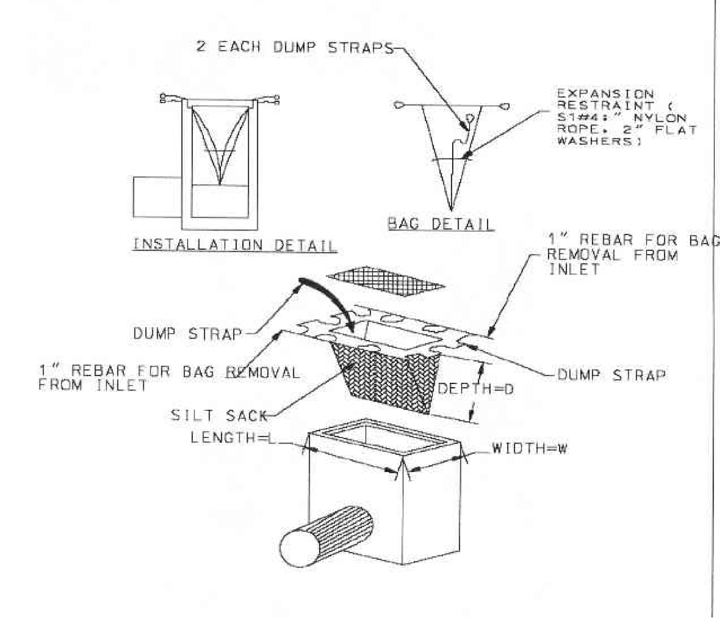
MERCER COUNTY SCD REQUIRED SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
3. PERMANENT VEGETATION SHALL BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH WILL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
5. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OR PRELIMINARY GRADING.
6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING ALL CRITICAL AREAS SUBJECT TO EROSION (I.E.: STEEP SLOPES, ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO THE STATE STANDARDS.
7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E.: SLOPES GREATER THAN 3:1).
8. TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 50'X30'X1' PAD OF 1 1/2" OR 2" STONE, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER THE INITIAL SITE DISTURBANCE.
9. IN ACCORDANCE WITH THE STANDARDS FOR A PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, ANY SOIL HAVING A pH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12" OF SOIL HAVING A pH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION.
10. THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
11. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
12. IN THAT NJSA 4:24-39 ET SEQ., REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPILED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
13. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
14. ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT STATE SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
15. THE MERCER COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.
16. MULCHING TO THE STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMPLIANCE. CONDITIONALS ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING.
17. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING LIFE OF CONSTRUCTION PROJECT.
18. THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION AT THE REQUEST OF THE MERCER COUNTY SOIL CONSERVATION DISTRICT.
19. HYDROSEEDING IS A TWO STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE CONSISTENCY, GOOD SEED TO SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE. UPON COMPLETION OF SEEDING OPERATION, HYDRO-MULCH SHOULD BE APPLIED AT A RATE OF 1500LBS. PER ACRE IN A SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE STANDARDS.

MERCER COUNTY SOIL CONSERVATION DISTRICT
508 HUGHES DRIVE
HAMILTON SQUARE, NJ 08690

DUST CONTROL NOTES:

1. CONTROLLING DUST SHALL BE ACHIEVED BY THE USE OF A WATER TRUCK AS NECESSARY.

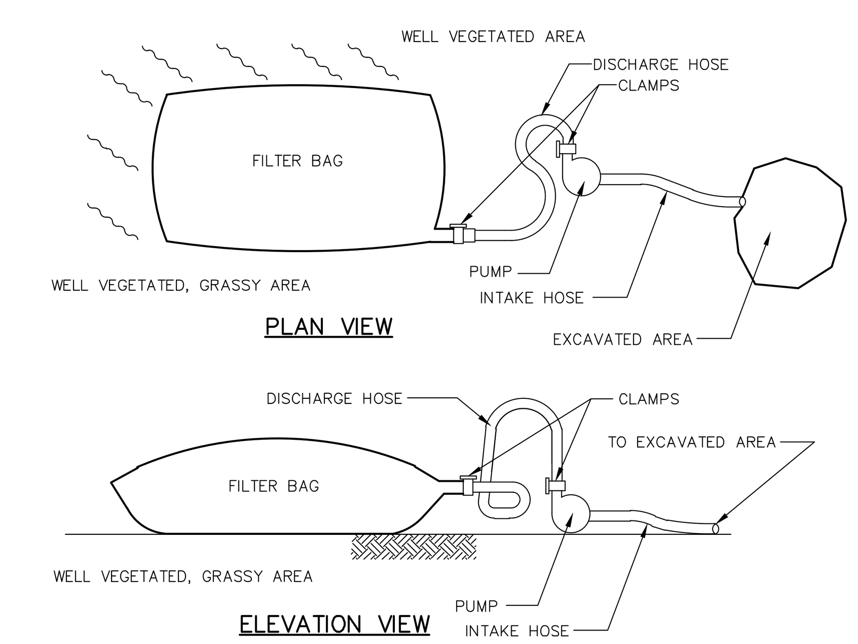


INLET PROTECTION DETAIL

N.T.S.

MERCER COUNTY SCD STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS:

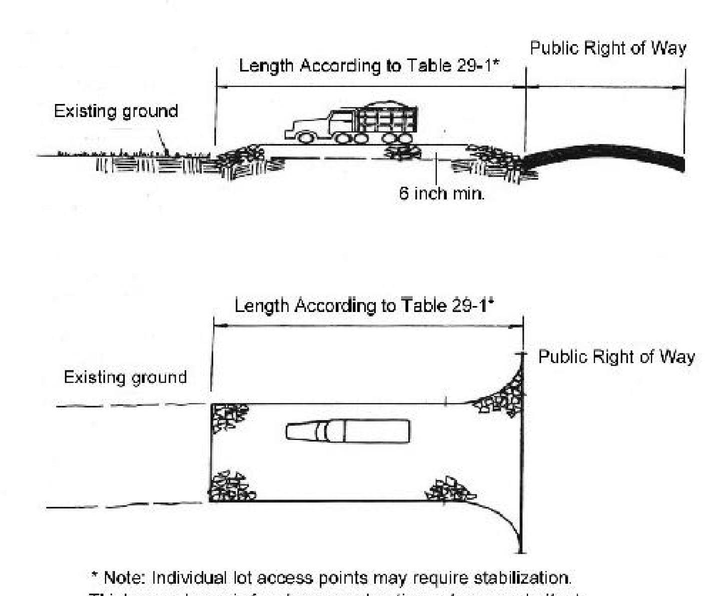
1. LIMIT THE EXCAVATION AREA AND EXPOSURE TIME WHEN HIGH ACID PRODUCING SOILS ARE ENCOUNTERED.
2. TOPSOIL STRIPPED FROM THE SITE SHALL BE STORED SEPARATELY FROM TEMPORARILY STOCKPILED HIGH ACID PRODUCING SOILS.
3. STOCKPILES OF HIGH ACID PRODUCING SOIL SHOULD BE LOCATED ON LEVEL LAND TO MINIMIZE ITS MOVEMENT, ESPECIALLY WHEN THIS MATERIAL HAS A HIGH CLAY CONTENT.
4. TEMPORARILY STOCKPILED HIGH ACID PRODUCING SOIL MATERIAL TO BE EXPOSED MORE THAN 30 DAYS SHOULD BE COVERED WITH PROPERLY ANCHORED, HEAVY GRADE SHEETS OF POLYETHYLENE WHERE POSSIBLE. IT NOT POSSIBLE, STOCKPILES SHALL BE COVERED WITH A MINIMUM OF 3 TO 6 INCHES OF WOOD CHIPS TO MINIMIZE EROSION OF THE STOCKPILE. SILT FENCE SHALL BE INSTALLED AT THE TOE OF SLOPE TO CONTAIN MOVEMENT OF THE STOCKPILED MATERIAL. TOPSOIL SHALL NOT BE APPLIED TO THE STOCKPILES TO PREVENT TOPSOIL CONTAMINATION WITH HIGH ACID PRODUCING SOIL.
5. HIGH ACID PRODUCING SOILS WITH A PH OF 4 OR LESS, OR CONTAINING IRON SULFIDE, (INCLUDING BORROW FROM CUTS) SHALL BE ULTIMATELY PLACED OR BURIED WITH LIMESTONE APPLIED AT THE RATE OF 6 TONS PER ACRE (OR 275 POUNDS PER 1,000 SQUARE FEET OF SURFACE AREA) AND COVERED WITH A MINIMUM OF 12 INCHES OF SETTLED SOIL WITH A PH OF 5 OR MORE EXCEPT AS FOLLOWS:
   - 5.1. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF 24 INCHES OF SOIL WITH A PH OF 5 OR MORE.
   - 5.2. DISPOSAL AREAS SHALL NOT BE LOCATED WITHIN 24 INCHES OF ANY SURFACE OF A SLOPE OR BANK, SUCH AS BERMS, STREAM BANKS, DITCHES AND OTHERS TO PREVENT POTENTIAL LATERAL LEACHING DAMAGES.
6. EQUIPMENT USED FOR MOVEMENT OF HIGH ACID PRODUCING SOILS SHOULD BE CLEANED AT THE END OF EACH DAY TO PREVENT SPREADING OF HIGH ACID SOIL MATERIALS TO OTHER PARTS OF THE SITE, INTO STREAMS OR STORMWATER CONVEYANCES AND TO PROTECT MACHINERY FROM ACCELERATED RUSTING.
7. NON VEGETATIVE EROSION CONTROL PRACTICES (STONE TRACKING PADS, STRATEGICALLY LIMESTONE CHECK DAM, SILT FENCE, WOOD CHIPS) SHOULD BE INSTALLED TO LIMIT THE MOVEMENT OF HIGH ACID PRODUCING SOILS FROM, AROUND OR OFF THE SITE.
8. FOLLOWING BURIAL OR REMOVAL OF HIGH ACID PRODUCING SOIL, TOPSOILING AND SEEDING OF THE SITE, (SEE TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, PG. 7-1, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, PG. 4-1 AND TOPSOILING, PG 8-1) MONITORING SHOULD CONTINUE FOR APPROXIMATELY 6 TO 12 MONTHS TO ASSURE THERE IS ADEQUATE STABILIZATION AND THAT NO HIGH ACID SOIL PROBLEMS EMERGE. IF PROBLEMS STILL EXIST THE AFFECTED AREA MUST BE TREATED AS INDICATED ABOVE TO CORRECT THE PROBLEM.
9. MONITORING OF AREAS WHERE HIGH ACID PRODUCING SOILS HAS BEEN PLACED OR BURIED SHOULD BE PERFORMED FOR AT LEAST 2 YEARS OR LONGER IS PROBLEMS OCCUR, TO ASSURE THERE IS NO MIGRATION OF POTENTIAL ACID LEACHATE.



NOTES:
1. BAG MUST BE LOCATED AWAY FROM RECEIVING WATERS AND/ OR CONSTRUCTION ACTIVITES.
2. BAGS MUST BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS. BAGS MAY NOT BE REUSED.
3. SEE THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY" MANUAL FOR CONSTRUCTION SPECIFICATIONS. PAGE 14-6 "DEWATERING"
4. TEMPORARY FILTERS FOR SMALL IMPOUNDMENTS: FOR SMALL QUANTITIES OF WATER SUCH AS MAY BE FOUND IN SHALLOW EXCAVATIONS (SMALL TRENCHES, MANHOLES INSTALLATIONS ETC.) A SEDIMENT FILTER MAY BE CONSTRUCTED USING COMBINATIONS OF HAY BALES, SMALL CLEAN STONE AND FILTER FABRIC. THIS METHOD IS LIMITED TO SMALL QUANTITIES OF TRAPPED SURFACE WATER (PUMPING OF WELL POINTS IS EXCLUDED FROM THIS STANDARD) AND WHERE SEDIMENTS ARE NOT HIGHLY COLLOIDAL IN NATURE.

DEWATERING DETAIL SEDIMENT CONTROL BAG

NOT TO SCALE



* Note: Individual lot access points may require stabilization.
Thickness shown is for stone construction entrance only (typ).

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT.	100 FT.
2 TO 5%	100 FT.	200 FT.
> 5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE*	

STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
1	4/2/12	MCSCD REVISIONS	CLM	JDH
1	3/26/12	MCSCD REVISIONS	CLM	JDH

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NJ LICENSE NUMBER 40339
PA LICENSE NUMBER 76067

POWER PARTNERS

THE MERCER COUNTY RENEWABLE ENERGY PROJECT
MERCER COUNTY COMMUNITY COLLEGE
1200 OLD TRENTON ROAD
WEST WINDSOR, NJ 08550

KMB PROJECT No: 732.0108

DRAWING TITLE: SOIL EROSION AND SEDIMENT CONTROL DETAILS

DRAWING SCALE: SCALE: AS NOTED

DRAWN BY:	CHECKED BY:	DATE:
DEK	CLM	02.01.12

DWG No.: SP-05

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SCHLETTER Inc. Solar Mounting Systems — **FS System™ Product Sheet**

FS System

Features and Benefits

- ETL Listed
- High level of pre-assembled parts
- Proven extremely short installation time
- High quality and sustainable materials
- Easily accessible for ground and system maintenance
- Included certified engineering by professional engineer licensed in the location of the project
- Included soil tests and pull out tests on systems larger than 250 kW
- Options for in field adjustment, if needed

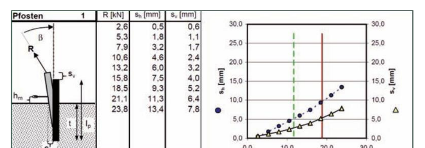
The Schletter FS Racking System has a proven worldwide product and installation history, with over 6 GW of ground mounted installations installed throughout the world with many FS installations ranking among the largest globally. Project specific system calculations and optimized material utilization address the ever increasing pressure to reduce costs in planning PV systems, taking into account balance of system (BoS). Complete structural calculations are provided for system design, while assuring compliance with current building codes and regulations.

With this established history and experience in ground mounted PV installations, the latest generation of the FS System offers a culmination of experience and the highest level of in-house pre-fabrication to date, while always maintaining the focus of making the overall cost of a PV system more competitive. **The result is an attractive system installed quickly, efficiently, and with the durability to last.**

Schletter stands behind the quality, durability, and functionality of its products and services its customers with professionalism. Because of our commitment to customer satisfaction, all Schletter systems have a voluntary 10-year warranty.

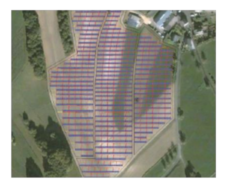
For more information, please visit www.schletter.us or call (520) 289-8700.

Design Process



The first step in planning a ground mount system is thorough soil investigation and pull out tests of the pier driven posts at the project site. Such testing generally requires numerous soil samples and subsequent soil classifications, which are the basis for determining the quantitative bearing capacity. Testing includes:

- Vertical pull-out tests
- Lateral load tests
- Independent laboratory analysis of soil classification, corrosion potential, gradation and soil plasticity



Layout planning for the FS System can be accomplished using the **Helios 3D™** layout software. Helios 3D features automatic, optimized drop shadow free placement of PV tables, making planning large systems virtually seamless. The program's sophisticated design tools and intuitive workflow allow users to complete days worth of project work in hours.

A two-part software system, Helios 3D consists of database management and an AutoCAD-based drafting interface. Helios 3D is a proven software system for utility scale solar planning in Europe and Schletter is the exclusive distributor of Helios 3D in North and South America.

➲ Helios 3D Product Sheet

The FS foundation consists of hot-dip galvanized steel posts (also known as profiles) with a proprietary u-shaped design. The u-shape grants optimum anchorage in the soil while maximizing the post strength.

Insertion of the posts into the soil is performed quickly by means of a terrain versatile hydraulic ram (GAYK). This pile-driving technique is especially suitable for the installation of large power plants. The **GAYK™ Ram** features a track machine with center pounding for more efficient and accurate installations. Even difficult terrain conditions (gravel or stones) are possible; in case of bedrock, the GAYK can be equipped with a drilling unit. It is possible to ram posts on slopes up to 20 degrees.

➲ GAYK Ram Product Sheet

Product Enhancements

Generation 6 is the result of experience gained through years of project planning and implementation with ground mount systems. The FS System Generation 6 is enhanced with new support designs that include a high level of pre-fabrication.

Four simple steps are done in the field:

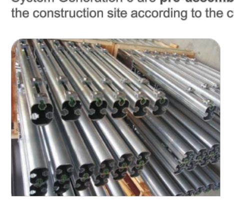
- Drive the post into the ground
- Place the support on the post attachment head and bolt the lower strut
- Insert the locking plate at the attachment head
- Install the cross beams—that´s it!

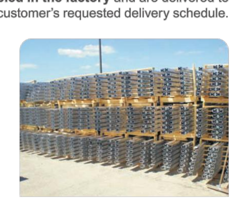
For any type of module, including the more fragile thin film modules, clamps are available. Schletter works with many module manufacturers to find the most appropriate clamping methods by performing structural FEM simulations with various modules and our clamping options.

The cross beams feature a profile geometry that is designed for optimal distribution of forces. Suitable bolt channels are integrated in all profiles for more efficient mounting. The cross beams are fixed to the support units by means of special mounting claws that are pre-assembled in the exact position required for the chosen module.

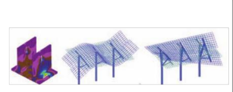
Time is Money

A reduction of BoS costs in the mechanical area is only possible by a minimization of the mounting time at the construction site. The materials of FS System Generation 6 are **pre-assembled in the factory** and are delivered to the construction site according to the customer's requested delivery schedule.





Technical Data

Material	• Fastening elements, bolts: Stainless steel 304 and 316 • Profiles (rails): Aluminum alloy 6105 T5 • High life-expectancy, high residual value, no disposal costs • Pile driven support posts: Steel, hot-dip galvanized with a G235 process - Easy plant re-powering due to modular design
Logistics	• Quick and simple mounting • Maximum level of prefabrication prior to shipment
Construction	• Can be installed on uneven terrain • Simple adjustment options • Cost optimized configurations for framed and unframed modules
Accessories	• Cable channels, cable ducts • Components for potential equalization/grounding • Clamps for every type of module • Fastening systems for large laminate modules (OptiBond system)
Calculations	• 100% code compliant designs for any locality • Third-party structural PE, stamped drawings and calculations • Individual system structural calculations based on geotechnical report • Individual system design calculations based on regional load values • Design loads according to IBC 2006 or 2009 • Patented profile geometries with optimum material utilization • Verification of all construction components based on FEM-calculation • Earthquake simulation, optional
Available Third-Party Services	• Geotechnical soil investigation and analysis • Ramming of foundations • Optional: rack mounting • Optional: complete module mounting • EPC services • PPA formation 
Terrain maintenance	• Simple terrain maintenance due to single support - Specification of module height above ground possible
Grounding, Potential equalization	• Grounding options available • Components for the internal potential equalization
Warranty and Certifications	• 10-year warranty, optional 20-years

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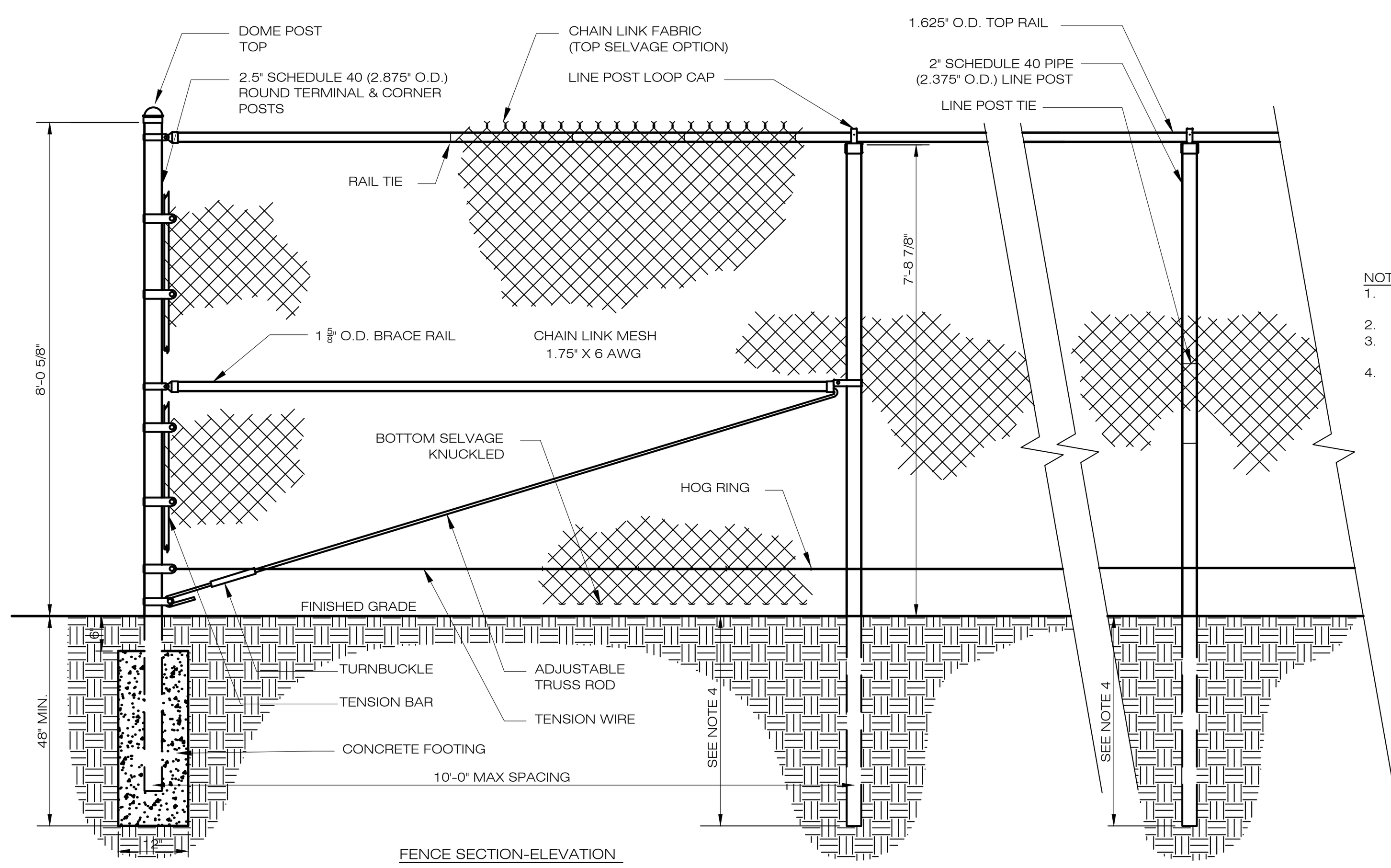
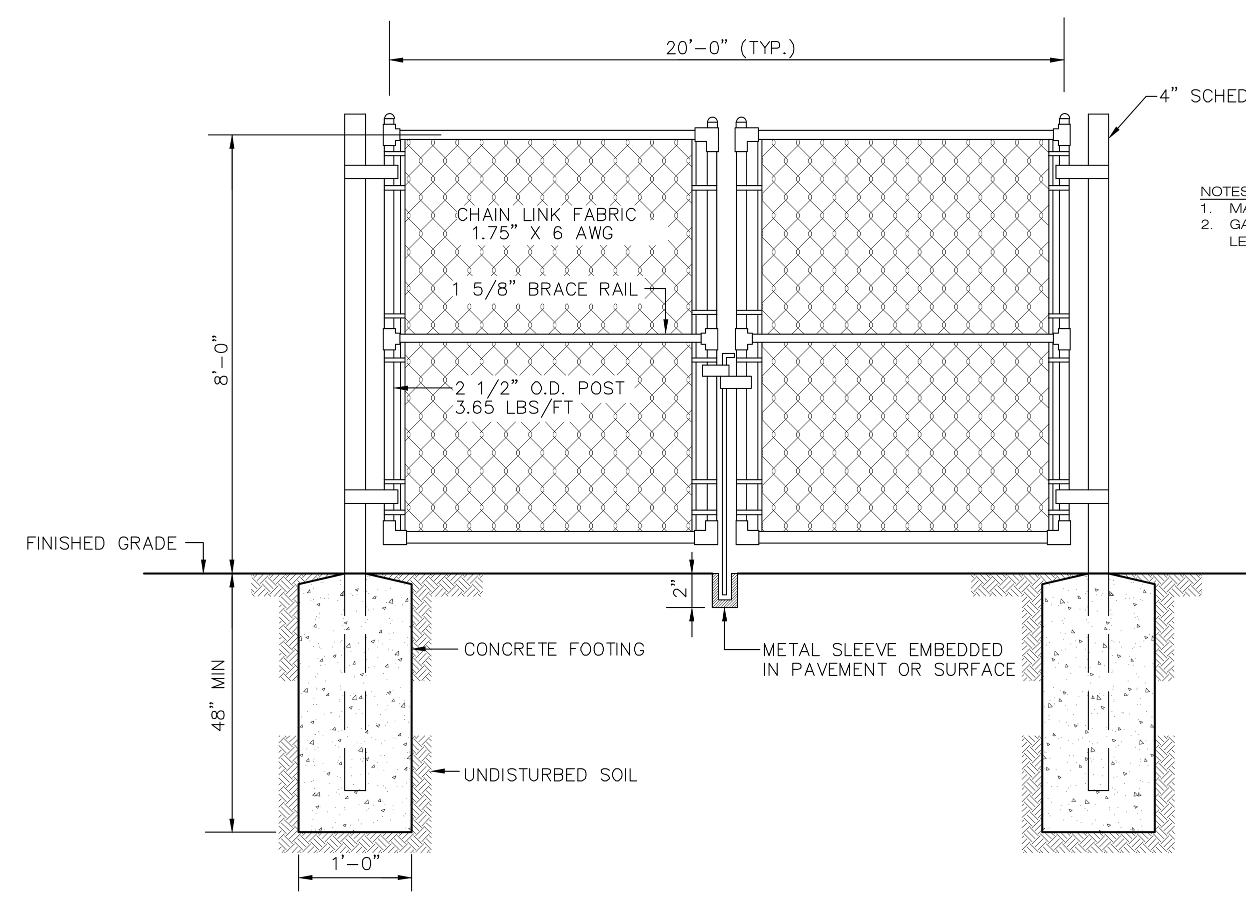
NOTE:
PRIOR TO INSTALLATION ALL STEEL POSTS SHALL BE COATED WITH A NON CONDUCTIVE COATING



NOTES:
1. CHAIN LINK FENCE WITH ROUND END POSTS AND TOP RAIL WITHOUT BARBED WIRE.
2. MATERIAL: GALVANIZED STEEL THROUGHOUT.
3. CORNER AND TERMINAL POSTS SHALL BE SET IN CONCRETE TO A DEPTH OF AT LEAST 4 FEET.
4. LINE POSTS SHALL BE BURIED TO A SUITABLE DEPTH AS DETERMINED BY GEOTECHNICAL STUDIES.

8' HIGH CHAIN LINK FENCE

N.T.S.



NOTES:
1. MATERIAL: GALVANIZED STEEL THROUGHOUT.
2. GATE POSTS SHALL BE SET IN CONCRETE TO A DEPTH OF AT LEAST 4 FEET.

8' HIGH CHAIN LINK GATE

N.T.S.

SUNOCO LOGISTICS - ENGINEERING RESTRICTIONS

1. PIPELINE DEPTH VERIFICATION AND LOCATION INFORMATION:
   - 1.1. AS REQUIRED BY LAW, THE DEVELOPER SHALL CONTACT THE APPROPRIATE STATE ONE CALL CENTER TO ARRANGE FOR FIELD STAKING AND PIPELINE DEPTH VERIFICATION BY A SPLP INSPECTOR.
   - 1.2. SPLP'S INSPECTOR WILL VERIFY THE DEPTH OF THE PIPELINE AT ANY PROPOSED UTILITY CROSSING, BOTH SIDES OF A PROPOSED ROAD CROSSING, LOCATIONS OF PROPOSED GRADE CUTS AND FILLS AND ANY OTHER CRITICAL LOCATION. THE LOCATION OF THE PIPELINE, TEST PITS AND RELATED PIPELINE DEPTHS SHALL BE SURVEYED AND ACCURATELY DEPICTED ON THE PROJECT PLANS.
   - 1.3. UPON FIELD STAKING BY A SPLP INSPECTOR, THE DEVELOPER SHALL ARRANGE FOR A SURVEY TO ACCURATELY DEPICT THE PIPELINE LOCATION ON THE PROJECT PLANS.
2. PROPOSED ROAD/DRIVEWAY CROSSINGS:
   - 2.1. PROPOSED ROAD CROSSINGS AND COMMERCIAL DRIVEWAYS SHALL BE DESIGNED TO PROVIDE A MINIMUM OF FOUR FEET (4') (MAXIMUM OF 7 FEET) OF VERTICAL CLEARANCE BETWEEN THE OUTER DIAMETER ("O.D.") OF THE PIPELINE AND THE FINISHED SURFACE. EXCEPTIONS MUST BE APPROVED BY SPLP'S ENGINEERING DEPARTMENT.
   - 2.2. PROPOSED CROSSINGS SHOULD BE DESIGNED TO BE AS PERPENDICULAR TO THE PIPELINE AS POSSIBLE. PROPOSED CROSSINGS OF ANGLES LESS THAN 30 DEGREES WILL NOT BE ACCEPTED.
3. UTILITY CROSSINGS AND UNDERGROUND STRUCTURES:
   - 3.1. PROPOSED CROSSINGS BY UTILITIES OR UNDERGROUND STRUCTURES SHALL BE DESIGNED TO PASS UNDER THE PIPELINE UNLESS OTHERWISE APPROVED BY SPLP'S ENGINEERING DEPARTMENT.
   - 3.2. PROPOSED UTILITIES SHALL CROSS AS PERPENDICULAR TO THE PIPELINE AS POSSIBLE
   - 3.3. ALL UNDERGROUND FACILITIES OR STRUCTURES CROSSING THE PIPELINE SHALL MAINTAIN A TWO-FOOT (2') MINIMUM VERTICAL CLEARANCE BETWEEN THE O.D. OF THE PIPELINE AND THE PROPOSED UTILITY/STRUCTURE. POWER CABLE AND FIBER OPTIC LINE INSTALLATIONS HAVE ADDITIONAL CROSSING REQUIREMENTS.
4. POWER CABLE INSTALLATIONS:
   - 4.1. PRIMARY CROSSINGS (GREATER THAN 440 VOLTS):
     - 4.1.1. MUST BE INSTALLED UNDER THE PIPELINE, (UNLESS OTHERWISE APPROVED BY SPLP'S ENGINEERING DEPARTMENT), WITH A MINIMUM TWO-FOOT SIX-INCH (2'6") VERTICAL CLEARANCE BETWEEN THE PIPELINE O.D. AND THE TOP OF THE CONDUIT. THE CABLE SHALL BE PLACED IN CONDUIT FOR THE WIDTH OF THE PIPELINE RIGHT-OF-WAY. THE CONDUIT SHALL BE PROTECTED BY POURING OF 2000PSI CONCRETE, DYED RED, INTO THE DITCH FOR A MINIMUM DISTANCE OF FIVE FEET (5') ON BOTH SIDES OF THE PIPELINE. THE CONCRETE MUST SPAN THE WIDTH OF THE DITCH. A MINIMUM TWO-FOOT (2') VERTICAL CLEARANCE MUST BE MAINTAINED BETWEEN THE O.D. OF THE PIPELINE AND THE TOP OF THE CONCRETE.
   - 4.2. FOR ALL ELECTRICAL CROSSINGS, A DRIVE POST WITH AN ELECTRIC COMPANY MARKER SHALL BE PLACED AND MAINTAINED ON EACH SIDE OF THE PIPELINE RIGHT-OF-WAY.

SUNOCO LOGISTICS - GENERAL RESTRICTIONS

1. DETAILED PLANS FOR PROPOSED CONSTRUCTION IN ACCORDANCE WITH SUNOCO PIPE L.P.'S ("SPLP") ENGINEERING RESTRICTIONS MUST BE SUBMITTED TO SPLP'S ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL TO DETERMINE TO WHAT EXTENT, IF ANY, THE PIPELINE OR RIGHT-OF-WAY WILL BE AFFECTED BY THE PROPOSED CONSTRUCTION AND/OR DEVELOPMENT.
2. A DRIVEWAY OR ROADWAY MAY CROSS THE RIGHT-OF-WAY AND PIPELINE PERPINDICULARLY, BUT AT NO TIME WILL IT BE PARALLEL TO, OVER AND WITHIN RIGHT-OF-WAY.
3. BUILDINGS, SWIMMING POOLS, SHEDS, DECKS, TREES, SHRUBS OR ANY OBSTRUCTION OF A PERMANENT NATURE SHALL NOT BE CONSTRUCTED, PLANTED OR PLACED WITHIN THE RIGHT-OF-WAY EASEMENT. THE WIDTH OF THE EASEMENTS VARY, BUT TYPICALLY STRUCTURES CLOSER THAN (25') FEET TO ANY EXISTING PIPELINE (50' EASEMENT) ARE NOT PERMITTED. YOU MUST CONTACT SPLP'S RIGHT-OF-WAY DEPARTMENT AT (610) 670-3322 (EASTERN U.S.) OR (281) 637-6415 (SOUTHWESTERN U.S.) TO DETERMINE THE EASEMENT WIDTH FOR A SPECIFIC PROPERTY.
4. WELLS, LEACH BEDS, CESSPOOLS OR SEWER SYSTEMS OF ANY TYPE SHALL NOT BE PLACED WITHIN RIGHT-OF-WAY.
5. ALL UNDERGROUND FACILITIES CROSSING THE RIGHT-OF-WAY SHALL CROSS UNDER THE EXISTING PIPELINE WITH A MINIMUM OF 24-INCHES CLEARANCE. THIS INCLUDES, BUT IS NOT LIMITED TO, SEWER DRAIN LINES.
6. THE EARTH COVER OVER THE PIPELINES SHALL BE MAINTAINED AND NEVER CHANGED IN ANY MANNER WITHOUT THE EXPRESS WRITTEN PERMISSION OF SPLP.
7. ANY PARKING AREA PLACED OVER THE PIPELINE WITH PERMISSION OF SPLP SHALL BE SUBJECT TO AN AMENDMENT TO AGREEMENT ENTERED INTO BY SUBJECT PARTIES PRIOR TO CONSTRUCTION OF SAME.
8. IF HEAVY EQUIPMENT IS TO CROSS THE EXISTING PIPELINE FOR ANY REASON, IT WILL BE NECESSARY FOR THE CROSSING PARTY TO PROVIDE AND MAINTAIN A RAMP OF SUFFICIENT MATERIAL TO PROTECT SAID PIPELINE. SUNOCO LOGISTICS WILL MAKE THE DECISION AS TO HOW MUCH FILL AND WHAT OTHER TYPE OF PROTECTIVE STRUCTURE, IF ANY, WILL BE REQUIRED FOR THE RAMP. UPON COMPLETION OF CONSTRUCTION AND DISCONTINUATION OF HEAVY EQUIPMENT PASSAGE OVER THE PIPELINE, THE RAMP MAY BE REMOVED.
9. A SPLP INSPECTOR MUST BE PRESENT AT THE TIME THAT ANY WORK IS DONE WITHIN SUNOCO LOGISTICS' RIGHT-OF WAY.
10. NO BLASTING IS PERMITTED WITHIN 300 FEET OF THE PIPELINE. ANYTHING LESS THAN 300 FEET MUST HAVE WRITTEN APPROVAL OF AND INSTRUCTION FROM SPLP'S ENGINEERING DEPARTMENT.
11. SHOULD YOU HAVE ANY QUESTIONS OR NEED ADDITIONAL INFORMATION ON THE AFOREMENTIONED PARAGRAPHS 1 THROUGH 10, PLEASE CALL SPLP'S RIGHT-OF-WAY DEPARTMENT AT (610) 670-3322 (EASTERN U.S.) OR (281) 637-6415 (SOUTHWESTERN U.S.)
12. STATE LAW REQUIRES YOU TO CONTACT YOUR ONE CALL CENTER AT LEAST TWO OR THREE DAYS IN ADVANCE, AS REQUIRED BY YOUR STATE, PRIOR TO ANY CONSTRUCTION ACTIVITY. THE NATIONWIDE TELEPHONE NUMBER FOR YOUR STATE ONE CALL CENTER IS "811". INDIVIDUAL STATE ONE CALL CENTER "800" NUMBER FOR NEW JERSEY IS (800) 272-1000.
13. IN ADDITION TO THE LEGALLY REQUIRED NOTICE REFERENCED ABOVE AND TO SCHEDULE A SPLP INSPECTOR TO WITNESS WORK IN THE VICINITY OF THE PIPELINE , PLEASE CALL THE SELECTED SPLP OFFICE BELOW. NOTE: CONTACTING SUNOCO PIPELINE L.P. DIRECTLY DOES NOT RELIEVE YOU OF THE LEGAL OBLIGATION TO NOTIFY YOUR STATE ONE CALL CENTER. TRENTON NJ (609) 586-1522.

REV.	DATE	REVISION DESCRIPTION	DRAWN BY	CHKD. BY
1	3/26/12	MCSCD REVISIONS	CLM	JDH

KMB DESIGN GROUP
kmbdg.com
1800 ROUTE 34, SUITE 209
WALL, NJ 07719
(732) 280-5623
FOR ALL QUESTIONS, PLEASE CONTACT
STEVEN G. SCHWERD - SR PROJECT MANAGER

Stephen A. Bray
PROFESSIONAL ENGINEER
LICENSE: GE44144 XX/XX/XX

HAMMER LAND ENGINEERING
1401 BAY AVENUE
POINT PLEASANT, NJ 08742
(TEL) 732.899.0898
(FAX) 888.712.4519
CERTIFICATE OF AUTHORIZATION
#24GA28176300

JOSEPH D. HANRAHAN
PROFESSIONAL ENGINEER
NJ LICENSE NUMBER 40339
PA LICENSE NUMBER 76067

POWER PARTNERS

THE MERCER COUNTY RENEWABLE ENERGY PROJECT
MERCER COUNTY COMMUNITY COLLEGE
1200 OLD TRENTON ROAD
WEST WINDSOR, NJ 08550

KMB PROJECT No: 732.0108

DRAWING TITLE: CONSTRUCTION DETAILS

DRAWING SCALE: SCALE: AS NOTED

DRAWN BY:	CHECKED BY:	DATE:
DEK	CLM	02.01.12

DWG No.: SP-06