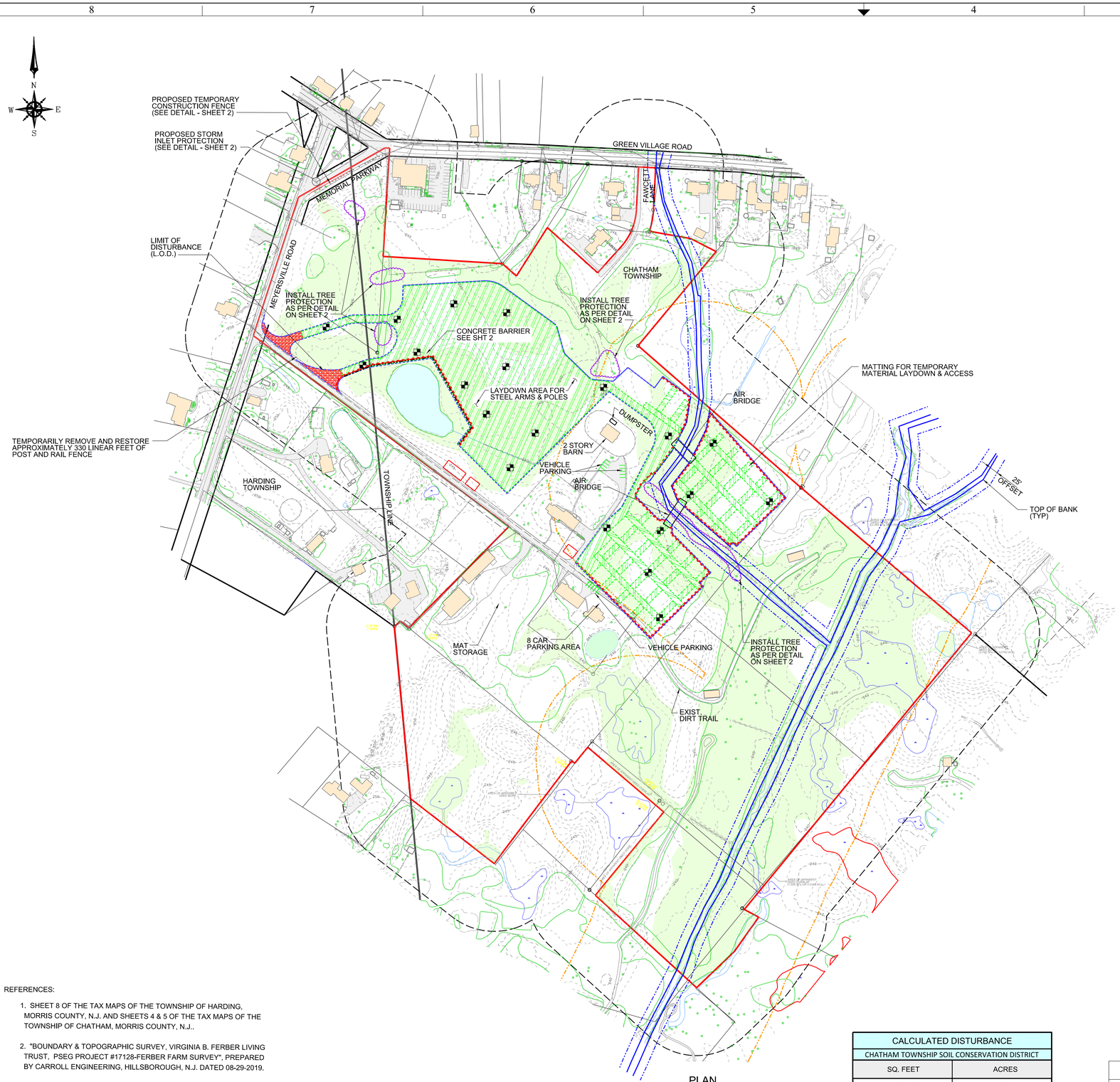


PLAN

NOTES:

1. HORIZONTAL DATUM = NAD-83(2011)
   VERTICAL DATUM = NAVD-88 (GEOID 12B)
   UNITS = U.S. SURVEY FEET

2. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GROUND DISTANCES, UNLESS OTHERWISE NOTED. GROUND DISTANCES MAY BE CONVERTED TO GRID BY MULTIPLYING BY THE COMBINED SCALE FACTOR OF 0.99989359 CALCULATED AT THE FOLLOWING COORDINATE N: 693,036.79', E: 505,653.58'. ALL COORDINATES SHOWN ARE GRID.

3. THESE PLANS ARE FOR DESIGN AND PERMITTING PURPOSES ONLY AND NOT INTENDED FOR CONSTRUCTION. THE ORIGINAL SIGNED DOCUMENT WITH A RAISED SEAL IS THE DOCUMENT OF RECORD.

4. ALL MATERIALS/EQUIPMENT IN LAYDOWN AREA ARE TEMPORARY.

5. NO HAZARDOUS MATERIALS TO BE STORED HEREIN.

6. SEDIMENT BARRIER SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETE AND SITE IS STABILIZED.

7. SEDIMENT BARRIER SHALL BE PLACED INSIDE OF LIMITS OF DISTURBANCE INDICATED ON THE DRAWINGS.

8. SOIL COMPACTION REMEDIATION OR TESTING TO PROVE REMEDIATION IS NOT NECESSARY WILL BE REQUIRED IN AREAS WHERE PERMANENT VEGETATION IS TO BE ESTABLISHED THAT ARE NOT OTHERWISE EXEMPTED ABOVE. TESTING METHOD SHALL BE SELECTED, AND SOIL COMPACTION TESTING SHALL BE PERFORMED BY, THE CONTRACTOR OR OTHER PROJECT OWNER'S REPRESENTATIVE (E.G. ENGINEER). A MINIMUM OF TWO (2) TESTS SHALL BE PERFORMED FOR PROJECTS WITH AN OVERALL LIMIT OF DISTURBANCE OF UP TO ONE (1) ACRE AND AT A RATE OF TWO (2) TESTS PER ACRE OF THE OVERALL LIMIT OF DISTURBANCE FOR LARGER AREAS WHICH SHALL BE EVENLY DISTRIBUTED OVER THE AREA OF DISTURBANCE SUBJECT TO TESTING. TESTS SHALL BE PERFORMED IN AREAS REPRESENTATIVE OF THE CONSTRUCTION ACTIVITY PREVAILING IN THE AREA. IN THE EVENT THIS TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE TESTING METHOD, THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM COMPACTION MITIGATION OVER THE ENTIRE DISTURBED AREA (EXCLUDING EXEMPT AREAS) OR TO PERFORM ADDITIONAL TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION.

9. A MINIMUM OF TWENTY COMPACTION TESTS SHALL BE PERFORMED IN THE AREA WHERE MATTING FOR TEMPORARY MATERIAL, LAYDOWN AND ACCESS IS PROPOSED.

10.NO REGRADING IS PROPSED. MATTING AND MATERIAL WILL BE PLACED ON EXISTING GRADE.


SITE LOCATION MAP

APPROX. SCALE: 1"=1,500'

LEGEND:

- MATTING FOR TEMPORARY MATERIAL LAYDOWN & ACCESS
- WORKPAD/PULL SITE LIMIT OF DISTURBANCE (LOD)
- TRACKING PAD
- WETLANDS
- PROPERTY BOUNDARY LINE
- BLOCK / RIGHT OF WAY LINE
- TAX LOT LINE
- EASEMENT
- EXIST. MAJOR CONTOUR
- EXIST. MINOR CONTOUR
- EXIST. FENCE
- EXIST. BUILDING
- EXIST. CONCRETE
- SEDIMENT BARRIER (12" DIA. SILT SOCK OR SILT FENCE)
- TOP OF STREAM BANK
- TOP OF STREAM BANK OFFSET
- APPROX. LOCATION OF DECOMPACTION TESTS

| CALCULATED DISTURBANCE | |
|---|---|
| CHATHAM TOWNSHIP SOIL CONSERVATION DISTRICT | |
| SQ. FEET | ACRES |
| 428,899 | 9.85 |

−150' 0 150' 300' 450' 600'

SCALE: 1" = 150'

REFERENCES:

1. SHEET 8 OF THE TAX MAPS OF THE TOWNSHIP OF HARDING, MORRIS COUNTY, N.J. AND SHEETS 4 & 5 OF THE TAX MAPS OF THE TOWNSHIP OF CHATHAM, MORRIS COUNTY, N.J..

2. "BOUNDARY & TOPOGRAPHIC SURVEY, VIRGINIA B. FERBER LIVING TRUST, PSEG PROJECT #17128-FERBER FARM SURVEY", PREPARED BY CARROLL ENGINEERING, HILLSBOROUGH, N.J. DATED 08-29-2019.

3. "FIRM, FLOOD INSURANCE RATE MAP, MORRIS COUNTY, NEW JERSEY, (ALL JURISDICTIONS), PANEL 427 OF 475", REVISED PRELIMINARY FEBRUARY 26, 2016.

4. TREES TO BE PROTECTED WITH PROTECTIVE BARRIER AS PER "TREE PROTECTION DETAIL", SHEET 2.

N.J. PROFESSIONAL ENGINEER
LIC. NO. 24GE04930400
C.O.A. NO. 24GE04813000

Digitally signed by Joshua Fink
Date: 2020.05.08 12:12:58 -04'00'

JOSHUA FINK

| ZONE | REV | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|
| | 0 | ISSUED FOR CONSTRUCTION | 4/27/2020 | J. WANG |

REVISIONS

PSE&G

ASSET MANAGEMENT
ELECTRIC TRANSMISSION ENGINEERING

| | | | |
|---|---|---|---|
| SUBJECT | RPV LAYDOWN AREA FERBER FARMS | | |
| SCALE 1" = 150' | CHECKED J. FINK | APPROVED/TITLE | J. WANG / MANAGER |
| DATE 09/16/19 | DRAWN BY J. GROSS | DISCIPLINE | CIVIL |
| LOCATION: RPV | SIZE ARCH D | DWG NO. TO-737211 | REV 0 / SHEET 1 OF 3 |

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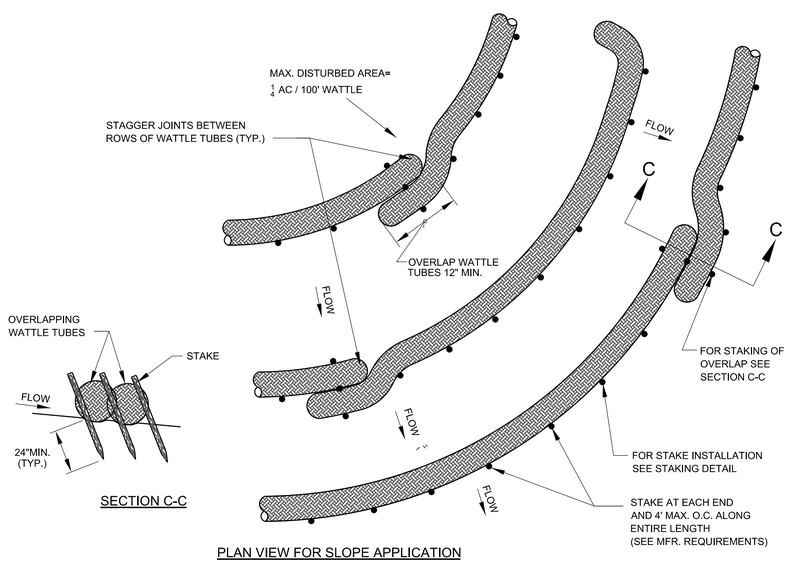
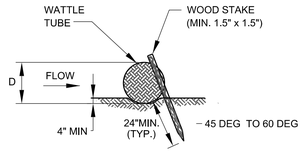
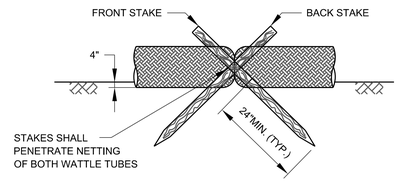



SECTION C-C

PLAN VIEW FOR SLOPE APPLICATION



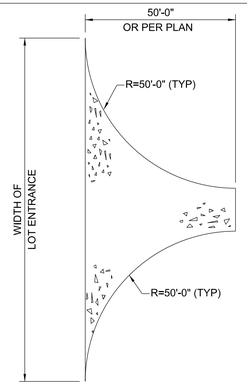

STAKING DETAIL

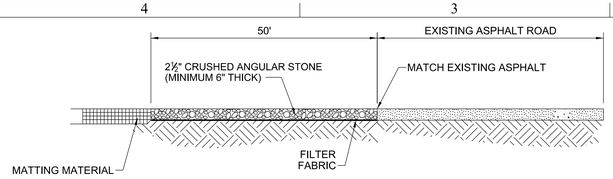



JOINT STAKING DETAIL

NOTES:

1. SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE AND SITE IS STABILIZED.
2. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE PROMPT AS NEEDED.
3. SEDIMENT BARRIER SHALL BE INSTALLED SO WATER CANNOT BYPASS THE BARRIER AROUND THE SIDES.
4. ALL SOIL EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED BEFORE ANTICIPATED STORM EVENTS (OR SERIES OF STORM EVENTS SUCH AS INTERMITTENT SHOWERS OVER ONE OR MORE DAYS) AND WITHIN 24 HOURS AFTER THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER, AND AT LEAST ONCE EVERY FOURTEEN CALENDAR DAYS.
5. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH ½ THE ABOVE GROUND HEIGHT OF BARRIER.

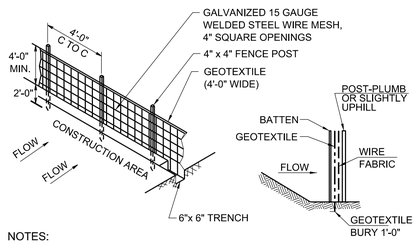



CONSTRUCTION ENTRANCE DETAIL

## STABILIZED CONSTRUCTION ENTRANCE

CONSTRUCTION ENTRANCE WILL BE CLEAN CRUSHED ANGULAR STONE, 6" THICK, WILL BE AT LEAST 20' X 50'AND SHALL BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC (MIRAFI 600X OR EQUIVALENT) AND MAINTAINED.

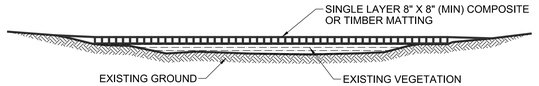



NOTES:

1. GEOTEXTILE TO BE FASTENED SECURELY TO WIRE MESH AND FENCE POST BY USE OF WIRE TIES OR HOG RINGS. 3 FASTENERS PER POST.
2. BURY BOTTOM 1'-0" OF GEOTEXTILE AND TAMP IN PLACE.
3. ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE SHALL BE SECURELY FASTENED TO A COMMON POST BY WRAPPING EACH END OF THE GEOTEXTILE AROUND THE POST TWICE AND ATTACHING AS SPECIFIED IN NOTE 1 ABOVE. SPLICING OF INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS
4. HEAVY DUTY SILT FENCE SHALL BE USED TO PROTECT ENVIRONMENTALLY SENSITIVE AREAS SUCH AS WETLAND AREAS FROM CONSTRUCTION ACTIVITIES.
5. HEAVY DUTY SILT FENCE SHALL BE USED NEAR A LONG SLOPE LENGTH AND WHERE THE WORK CONVEYS RUNOFF TO AN EXISTING WATER CROSSING.

## HEAVY DUTY SILT FENCE

N.T.S.




## SITE MATTING

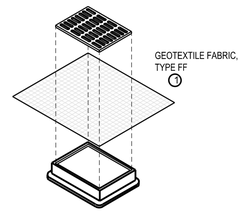
N.T.S.

NOTES:

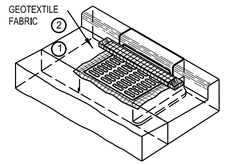
1. CONSTRUCT ROADS AND PADS BY STACKING ADDITIONAL MATS AS NEEDED TO REDUCE THE SLOPE OF THE PAD SURFACE TO ALLOW SAFE OPERATION OF CONSTRUCTION EQUIPEMENT.
2. INSPECT MAT ROADS ON A DAILY BASIS. REPAIR DAMAGED MATS BEFORE ANY SUBSEQUENT USE.
3. REMOVE THE TEMPORARY ROAD AND/OR PAD AS SOON AS IT IS NO LONGER NEEDED.
4. ALL MATS SHALL BE CLEAN AND FREE OF ALL DEBRIS PRIOR TO ARRIVAL ON SITE.
5. IF FLOWING WATER IS PRESENT, MATS SHALL BE STACKED WITH GAPS BETWEEN LOWER LAYERS TO ALLOW CONTINUOS FLOW OF WATER THROUGH MATTED SECTION OF ACCESS.
6. PERIODICALLY REMOVE SEDIMENT THAT IS FORCED UP ONTO MATS.
7. MATTING TYPE SHALL BE COMPOSITE OR WOOD.

## TYPICAL TERMPORARY CONSTRUCTION MAT ROAD & CONSTRUCTION PAD DETAIL

N.T.S.




INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)
(CAN BE INSTALLED IN ANY
INLET WITHOUT A CURB BOX)




INLET PROTECTION, TYPE C
(WITH CURB BOX)

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

GENERAL NOTES

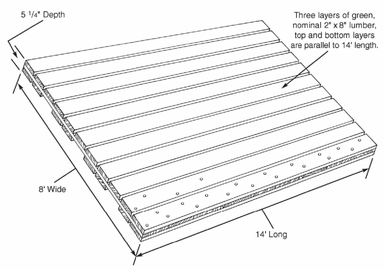
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" X 4".

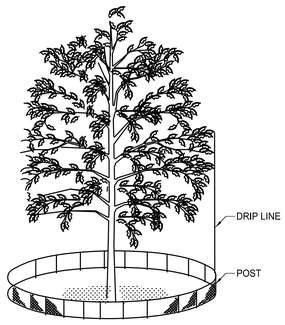
## STORM INLET PROTECTION

N.T.S.

## 3-PLY MAT
## TYPICAL INDUSTRY MATTING




TEMPORARY WAFFLE MAT DETAIL
N.T.S.

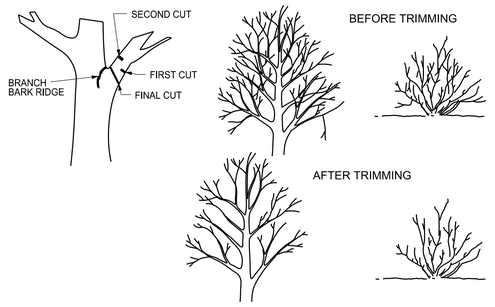



NOTES:

1. FENCING SHALL BE INSTALLED AT THE DRIP LINE (MIN. 5 FEET FROM TREE TRUNK).
2. BOARDS SHALL NOT BE NAILED TO TREES DURING CONSTRUCTION.
3. FEEDER ROOTS SHALL NOT BE CUT IN AREA INSIDE THE DRIP LINE.
4. THE CONTRACTOR SHALL NOT ENCROACH ONTO AREAS DELINEATED AS TREE PROTECTION. THE STORAGE OF EQUIPMENT OR MATERIALS IN THIS AREA IS STRICTLY FORBIDDEN. THE SILT FENCE ERECTED AT THE TREE PROTECTION LINE SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS AND SHALL NOT BE CROSSED.
5. REFER TO PLAN SHEETS FOR LOCATION OF WOODS AND TREES TO REMAIN. ALLTREES TO REMAIN WHICH ARE ADJACENT TO CONSTRUCTION AREAS SHALL BE PROTECTED IN ACCORDANCE WITH THIS DETAIL.
6. NO CLEARING, EARTHMOVING, OR CONSTRUCTION SHALL COMMENCE PRIOR TO INSTALLATION OF TREE PROTECTION FENCES AROUND ALL EXISTING TREES.
7. A 48 INCH HIGH WOODEN OR PLASTIC FENCE WITH POSTS ON 8 FOOT CENTER TO CENTER (MAXIMUM) SHALL BE INSTALLED AROUND EACH EXISTING TREE PRIOR TO START OF CONSTRUCTION (TYPICAL FOR ALL TREES).

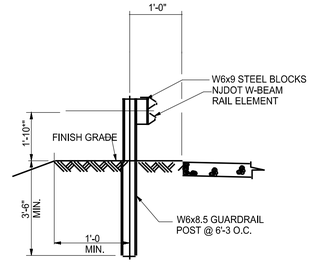
## TREE PROTECTION DETAIL

N.T.S.

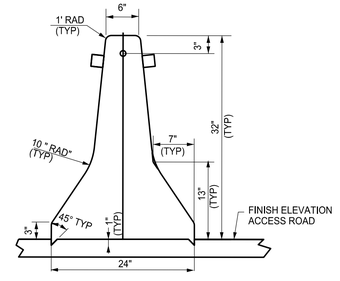



## PRUNING DETAILS

DAMAGED BRANCHES SHALL BE TRIMMED OFF BELOW THE POINT OF INJURY. THE CENTRAL TRUNK OR "LEADER" SHOULD BE LEFT INTACT. BROKEN ROOTS SHALL BE CUT OFF ABOVE THE BREAK AND BRUISED ENDS CUT OFF CLEANLY.




GUARDRAIL DETAIL
N.T.S.




CONTRACTOR TO PROVIDE PROJECT ENGINEER WITH SIGNED AND SEALED DETAILS AND CALCULATIONS FOR ANCHORING METHOD OF BARRIER CURB

## TYPE I WHITE CONCRETE BARRIER CURB

N.T.S.

N.J. PROFESSIONAL ENGINEER
LIC. NO. 24GE04893400
C.O.A. NO. 24GE04813000

Digitally signed by Joshua Fink
Date: 2020.05.08 12:13:41 -04'00'

JOSHUA FINK

| ZONE | REV | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|
| | 0 | ISSUED FOR CONSTRUCTION | 4/27/2020 | J. WANG |

REVISIONS

PSEG
ASSET MANAGEMENT
ELECTRIC TRANSMISSION ENGINEERING

| | | | |
|---|---|---|---|
| SUBJECT | RPV LAYDOWN AREA FERBER FARMS | | |
| SCALE 1" = 150' | CHECKED J. FINK | APPROVED/TITLE | J. WANG / MANAGER |
| DATE 09/16/19 | DRAWN BY J. GROSS | DISCIPLINE | CIVIL |
| LOCATION: RPV | SIZE ARCH D | DWG NO. TO-737211 | REV 0 / SHEET 2 OF 3 |

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## CHATHAM TOWNSHIP - SOIL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL," (REVISED 1999) AND WILL BE IN PLACE PRIOR TO ANY SOIL DISTURBANCE OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

2. CHATHAM TOWNSHIP WILL BE NOTIFIED 72 HOURS PRIOR TO ANY LAND DISTURBANCE.

3. DURING AND AFTER CONSTRUCTION, THE OWNER WILL BE RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF THE DRAINAGE STRUCTURES, VEGETATIVE COVER AND ANY OTHER MEASURES DEEMED APPROPRIATE BY THE TOWNSHIP.

4. A CRUSHED STONE VEHICLE WHEEL CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 2½" CRUSHED STONE, WILL BE AT LEAST 50 FEET LONG AND THE WIDTH OF THE EXIT ROADWAY OR DRIVEWAY, AND WILL BE PROPERLY MAINTAINED.

5. ALL PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.

6. ALL NEW ROADWAYS AND DRIVEWAYS WILL BE TREATED WITH A SUITABLE SUBBASE UPON ESTABLISHMENT OF FINAL GRADE ELEVATIONS.

7. DISTURBED AREAS SHALL BE MAINTAINED IN A ROUGH GRADED CONDITION AND TEMPORARILY SEEDED AND MULCHED UNTIL PROPER WEATHER CONDITIONS EXIST FOR THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

8. ALL SOIL STOCKPILED FOR A PERIOD OF GREATER THAN 30 DAYS WILL BE TEMPORARILY SEEDED AND MULCHED.

9. STOCKPILES SHALL NOT BE LOCATED WITHIN 50 FEET OF A FLOODPLAIN, SLOPE, DRAINAGE FACILITY OR ROADWAY. ALL STOCKPILE BASES SHALL BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE.

10. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR SUITABLE EQUAL, AT A 2 TON/ACRE RATIO RATE, ACCORDING TO STATE STANDARDS.

11. TEMPORARY STABILIZATION - ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION ACTIVITIES SHALL IMMEDIATELY BE STABILIZED UPON DISTURBANCE BY APPLYING THE FOLLOWING:

    A) GROUND LIMESTONE AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET.

    B) FERTILIZER AT A RATE OF 14 POUNDS PER 1,000 SQUARE FEET USING A 10-20-10 ANALYSIS OR AN EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4".

    C) SEED SHALL BE ANNUAL RYEGRASS APPLIED AT NOT LESS THAN 1 POUND PER 1,000 SQUARE FEET.

    D) MULCH ALL NEWLY SEEDED AREA WITH UNROTTED SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET ACCORDING TO THE NJ STANDARD. MULCH SHALL NOT BE GROUND INTO SHORT PIECES AND IN NO CASE SHALL MORE THAN 5 DAYS ELAPSE BETWEEN SEEDING AND MULCHING.

    E) MULCH SHALL BE ANCHORED WITH A LIQUID MULCH BINDER APPLIED AT A RATE OF 1 GAL/1,000 SF. OR BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING).

12. BETWEEN OCTOBER 1 AND MARCH 1 AND WHEN THE SEASON PROHIBITS TEMPORARY SEEDING OR WHEN DISTURBED AREAS ARE SCHEDULED FOR IMMEDIATE LANDSCAPING, APPLYING THE AFORE MENTIONED ITEMS "D)" AND "E)" WILL BE ADEQUATE.

13. SEEDING DATES: THE FOLLOWING ARE RECOMMENDED SEEDING DATES FOR THE ESTABLISHMENT OF TEMPORARY OR PERMANENT VEGETATION.

    A) SPRING: (MARCH 1 - MAY 15)

    B) FALL: (AUGUST 15 - OCTOBER 1)

14. PERMANENT VEGETATIVE COVER IS TO BE ESTABLISHED ON EXPOSED AREAS WITHIN 10 DAYS AFTER FINAL GRADING. MULCH IS TO BE USED FOR PROTECTION UNTIL FINAL VEGETATION IS ESTABLISHED.

15. PERMANENT SEEDING AND STABILIZATION TO BE IN ACCORDANCE WITH THE STANDARDS FOR PERMANENT VEGETATIVE COVER - ALL EXPOSED SURFACES WILL BE TREATED WITH 4" TOPSOIL PRIOR TO FINAL STABILIZATION AND THE FOLLOWING ITEMS APPLIED AT THE DESIGNATED RATES:

    A) LIME SHALL BE APPLIED AT 90 POUNDS PER 1,000 SQUARE FEET CONSISTING OF GROUND LIMESTONE INCORPORATED INTO THE TOP 4" OF TOPSOIL.

    B) FERTILIZER SHALL BE 14 POUNDS PER 1,000 SQUARE FEET 10-20-10 INCORPORATED INTO THE TOP 4" OF TOPSOIL.

    C) SEED SHALL BE 25 POUNDS PER ACRE OF KENTUCKY BLUEGRASS, 15 POUNDS PER ACRE OF RED FESCUE, SPREADING FESCUE AT 15 POUNDS PER ACRE, AND 10 POUNDS PER ACRE OF PERENNIAL RYEGRASS.

    D) IN SHADE AREAS INCREASE RED FESCUE 20 POUNDS PER ACRE AND DECREASE KENTUCKY BLUEGRASS 20 POUNDS PER ACRE.

    E) MULCH ALL NEWLY SEEDED AREA WITH UNROTTED SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET ACCORDING TO THE NJ STANDARD. MULCH SHALL NOT BE GROUND INTO SHORT PIECES AND IN NO CASE SHALL MORE THAN 5 DAYS ELAPSE BETWEEN SEEDING AND MULCHING.

    F) MULCH SHALL BE ANCHORED WITH A LIQUID MULCH BINDER APPLIED AT A RATE OF 1 GAL./1,000 SQUARE FEET OR BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING).

16. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE TOWNSHIP.

17. THE SITE SHALL, AT ALL TIMES, BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUN - OFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.

18. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF SUITABLE FILTER FABRIC FILTER.

19. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS.

20. ALL STORM DRAIN INLETS SHALL BE PROTECTED WITH GRAVEL FILTERS TO PREVENT ENTRY OF SEDIMENT CARRIED BY RUNOFF WATER UNTIL VEGETATION AND/OR PAVING IS ESTABLISHED.

21. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AS REQUIRED BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.

22. ALL TREES TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH TREE PROTECTION DEVICES OR SEDIMENT BARRIERS.

23. THE TOWNSHIP MAY REQUEST ADDITIONAL MEASURE TO MINIMIZE ON OR OFF SITE EROSION PROBLEMS DURING CONSTRUCTION.

24. SEQUENCE OF CONSTRUCTION

    A) INSTALL VEHICLE WHEEL CLEANING BLANKET AND INLET PROTECTION.

    B) INSTALL SILT FENCE

    C) CLEAR SITE

    D) INSTALL TIMBER MATTING

    E) PROVIDE TEMPORARY STABILIZATION IF REQUIRED.

    F) PROVIDE PERMANENT STABILIZATION

    G) REMOVE TEMPORARY SILT FENCE, INLET PROTECTION AND OTHER SOIL EROSION CONTROLS

25. A COPY OF THE SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE ON-SITE AT ALL TIMES AND MADE AVAILABLE TO A TOWNSHIP REPRESENTATIVE DURING INSPECTION.

## SEQUENCE OF CONSTRUCTION (PER ACCESS ROAD):

APPROXIMATE PROJECT DURATION: 04/01/2019 TO 12/31/2023

1. THE LOCAL SOIL CONSERVATION DISTRICT IS TO BE NOTIFIED 48 HOURS PRIOR TO MOBILIZATION.
2. CONTRACTOR SHALL EXAMINE THE EXISTING ROADWAY AT THE ACCESS ROAD ENTRANCE. INSTALL INLET PROTECTION AT EACH INLET WITHIN 100 FEET OF THE ENTRANCE.
3. INSTALL STABALIZED CONSTRUCTION ENTRANCES.
4. INSTALL SEDIMENT BARRIER ALONG THE ACCESS ROUTE. CONSTRUCT ACCESS ROAD USING MATTING, AS INDICATED ON THE PLAN SHEETS.
5. STAGE PROJECT MATERIAL. NO SOIL STOCKPILING OR DEWATERING WILL BE PERFORMED AS PART OF THIS WORK.
7. REMOVE ACCESS ROAD AND WORK AREA MATERIALS.
8. STABALIZE DISTURBED AREAS FOLLOWING PERMANENT VEGETATIVE STANDARDS INCLUDING BUT NOT LIMITED TO SOIL DE-COMPACTION TESTING .
9. REMOVE REMAINING SEDIMENTATION CONTROLS ONCE PERMANENT VEGETATION IS ESTABLISHED.

## DUST CONTROL METHODS

DUST CONTROL MATERIALS

| MATERIAL | WATER DILUTION | TYPE OF NOZZLE | APPLY GALLONS/ACRE |
|---|---|---|---|
| LATEX EMULSION | 12.5:1 | FINE SPRAY | 235 |
| RESIN IN WATER | 4:1 | FINE SPRAY | 300 |
| POLYACRYLAMIDE (PAM) - SPRAY ON POLYACRYLAMIDE (PAM) - DRY SPREAD | APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. | | |
| ACIDULATED SOY BEAN SOAP STICK | NONE | COARSE SPRAY | 1200 |

MULCHES - SEE MULCH THIS SHEET.

VEGETATIVE COVER - SEE VEGETATIVE STANDARDS THIS SHEET.

SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

TILLAGE - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USE BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOW SPACED ABOUT 12 INCHES APART, AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.

SPRINKLING - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.

BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.

CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT THE RATE THAT WILL KEEP SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS.

STONE - COVER SURFACE WITH CRUSHED STONE OR GRAVEL.

## SOIL DE-COMPACTION AND TESTING REQUIREMENTS

**SOIL COMPACTION TESTING REQUIREMENTS**

1. SUBGRADE SOILS **PRIOR TO THE APPLICATION OF TOPSOIL** (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

2. AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE **GRAPHICALLY DENOTED** ON THE CERTIFIED SOIL EROSION CONTROL PLAN.

3. **COMPACTION TESTING LOCATIONS** ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION MITIGATION VERIFICATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.

4. IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL, MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

**COMPACTION TESTING METHODS**

A. PROBING WIRE TEST (SEE DETAIL)
B. HAND-HELD PENETROMETER TEST (SEE DETAIL)
C .TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED
D. NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)

NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

**PROCEDURES FOR SOIL COMPACTION MITIGATION**

PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION **PRIOR TO PLACEMENT OF TOPSOIL** AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

**RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH)** WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAYBE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.

N.J. PROFESSIONAL ENGINEER
LIC. NO. 24GE04893400
C.O.A. NO. 24GE04813000

Digitally signed by Joshua Fink
Date: 2020.05.08 12:14:12 -04'00'

JOSHUA FINK

| ZONE | REV | DESCRIPTION | DATE | APPROVED |
|---|---|---|---|---|
| | 0 | ISSUED FOR CONSTRUCTION | 4/27/2020 | J. WANG |

REVISIONS

PSE&G
ASSET MANAGEMENT
ELECTRIC TRANSMISSION ENGINEERING

| | | | |
|---|---|---|---|
| SUBJECT | RPV LAYDOWN AREA FERBER FARMS | | |
| SCALE 1" = 150' | CHECKED J. FINK | APPROVED/TITLE | J. WANG / MANAGER |
| DATE 09/16/19 | DRAWN BY J. GROSS | DISCIPLINE | CIVIL |
| LOCATION: RPV | SIZE ARCH D | DWG NO. TO-737211 | REV 0 / SHEET 3 OF 3 |

Q:\Design Engineering\ROSELAND PLEASANT VALLY\CAD\Soil Erosion & Sediment Control\Phase 2\REFERENCES\RPV Title Block 24x36 – Phase 2.dgn