

SOIL EROSION AND SEDIMENT CONTROL NOTES

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETED

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY."

ALL DISTURBED AREAS, INCLUDING STOCKPILES, THAT ARE NOT GRADED, CONSTRUCTED ON, OR PERMANENTLY SEEDED WITHIN 30 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING AND/OR MULCHING UNTIL PROPER WEATHER CONDITIONS EXIST FOR ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER.

GRADING SHALL BE LIMITED TO THOSE AREAS ISOLATED BY SOIL EROSION AND SEDIMENT CONTROL PRACTICES AND/OR AS INDICATED ON THE PLANS.

6. CLEARING SHALL BE LIMITED TO 10 FEET BEYOND THE LIMIT OF GRADING DESCRIBED IN #5, EXCEPT THAT CLEARING SHALL NOT ENCROACH ON ADJACENT PROPERTIES, UNLESS INDICATED OTHERWISE ON THE PLANS. TREES TO REMAIN SHALL BE PROTECTED FROM DAMAGE.

TEMPORARY DRAINAGE DIVERSIONS AND EROSION CONTROL MEASURES, NOT SHOWN ON THE PLANS, SUCH AS TEMPORARY INTERCEPTOR BERMS, SWALES, TRAPS AND FILTERS, SHALL BE EMPLOYED AS REQUIRED TO ASSURE THAT DRAINAGE OF DISTURBED AREAS IS DIRECTED TO AND INTERCEPTED BY THE CONTROL MEASURES. THESE PRACTICES SHALL BE SUBJECT TO APPROVAL BY THE HUNTERDON COUNTY SOIL CONSERVATION DISTRICT AND ADJUSTED

8. UNLESS NOTED OTHERWISE, CUT AND FILL SLOPES ARE NOT INTENDED TO BE STEEPER THAN 3 (HORIZONTAL) TO 1 (VERTICAL). IF THE PLANS NOTE STEEPER SLOPES, OR IF REQUIRED BY FIELD CONDITIONS, SLOPES BETWEEN 2:1 AND 3:1 MAY BE USED PROVIDED A TEMPORARY SOIL EROSION CONTROL MATTING (SUCH AS JUTE, CURLEX, ETC.) IS INSTALLED OVER SEED AND MULCH IMMEDIATELY FOLLOWING GRADING. NO CUT OR FILL SLOPES ARE TO BE STEEPER THAN 2:1.

IF WET WEATHER SEEPS OCCUR UPON CONSTRUCTION OF GRASS-LINED SWALES, A DECISION WILL BE MADE AT THAT TIME BY A HUNTERDON COUNTY SOIL CONSERVATION DISTRICT REPRESENTATIVE AS TO WHETHER OR NOT RIP-RAP SHALL BE DESIGNED AND PROVIDED.

10. NO TREE STUMPS ARE TO BE BURIED ON SITE.

PERIODICALLY TO ACCOMMODATE CONSTRUCTION ACTIVITIES.

11. PERMANENT STABILIZATION IS TO INCLUDE ALL FORMER AGRICULTURAL FIELDS THAT ARE NOW ANNUAL WEED COVERED AND ALL FIELDS OF ANNUAL CROPS.

12. ALL EXISTING FIELD ROADS NOTED ON THE PLANS AS "TO BE ABANDONED" MUST BE TOPSOILED, SEEDED, AND MULCHED.

13. NO EXCESS CUT MATERIAL IS TO BE REMOVED FROM THE SITE. IF EXCESS FILL OR ANY OTHER MATERIAL IS TO BE REMOVED FROM THE SITE, THE PROJECT OWNER/APPLICANT SHALL BE RESPONSIBLE FOR ITS PROPER DISPOSAL AND WILL NOTIFY THE HUNTERDON COUNTY SOIL CONSERVATION DISTRICT AS TO THE PLANNED DISPOSAL SITE LOCATION. IF APPLICABLE. A SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO, REVIEWED AND CERTIFIED BY THE HUNTERDON COUNTY SOIL CONSERVATION DISTRICT PRIOR TO ANY MATERIAL REMOVAL FROM THE SITE.

14. STOCKPILED FINES (SAND, QUARRY-PROCESS-BLEND, ETC) ARE NOT ALLOWED ON PAVED AREAS, ROADWAYS, OR NEAR DRAINAGE INLETS.

15. THE STANDARDS FOR DUST CONTROL ARE TO BE EMPLOYED DURING EXTENDED PERIODS OF DRY CONDITIONS, AS DIRECTED BY THE HUNTERDON COUNTY SOIL CONSERVATION DISTRICT OR THE OWNER. APPROVED DUST CONTROL MATERIALS INCLUDE THE FOLLOWING

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1,200 GALLONS/ACRE
LATEX EMULSION	12.5:1	FINE SPRAY	235 GALLONS/ACRE
RESIN IN WATER	4:1	FINE SPRAY	300 GALLONS/ACRE
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1,200 GALLONS/ACRE
POLYACRYLAMIDE (PAM) - SPRAY OF	N OR DRY SPREAD: /	APPLY ACCORDING 1	TO MANUFACTURER'S INSTRUCTIONS. M
ALSO BE USED AS AN ADDITIVE TO S	SEDIMENT BASINS TO	O FLOCCULATE AND	PRECIPITATE SUSPENDED COLLOIDS (S

SEDIMENT BASIN STANDARD, PAGE 26-1 IN STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY) SEDIMENT CONTROL IN NEW JERSEY).

16. THE STANDARDS FOR DEWATERING ARE TO BE EMPLOYED WHENEVER ACCUMULATED STORMWATER MUST BE REMOVED FROM EXCAVATIONS.

CONSTRUCTION SEQUENCE

A PRECONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE MUNICIPAL ENGINEER, THE HUNTERDON COUNTY ENGINEER, PLANNER, ALL CONTRACT UTILITIES, POLICE, AND THE HUNTERDON COUNTY SOIL CONSERVATION DISTRICT PRIOR TO COMMENCING CONSTRUCTION OF ANY IMPROVEMENTS

A CONSTRUCTION SCHEDULE, INCLUDING ANTICIPATED DURATIONS OF ALL ACTIVITIES, IS TO BE PROVIDED TO THE HUNTERDON COUNTY SOIL CONSERVATION DISTRICT PRIOR TO THE PRECONSTRUCTION MEETING. ALL CONSTRUCTION IS TO BE COORDINATED WITH THE MUNICIPAL ENGINEER AND THE HUNTERDON COUNTY SOIL CONSERVATION DISTRICT AND SHALL FOLLOW PROPER TIME-OF-YEAR PROCEDURES.

3. THE CONTRACTOR SHALL NOTIFY BOTH THE MUNICIPAL ENGINEER AND THE HUNTERDON COUNTY SOIL CONSERVATION DISTRICT, IN WRITING, 48 HOURS PRIOR TO ANY LAND DISTURBANCE.

. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES THAT HAVE OR MAY HAVE UNDERGROUND FACILITIES IN THE AREA OF THE CONSTRUCTION AND REQUEST THAT ANY UNDERGROUND FACILITIES BE MARKED OUT PRIOR TO ANY EXCAVATION. IN ADDITION TO ANY DIRECT CONTACT WITH UTILITY COMPANIES, THE UNDERGROUND LINE LOCATING SERVICE (1-800-272-1000) MUST BE CALLED.

5. INSTALL SILT FENCE AND ANTI-TRACKING PADS AS INDICATED ON THE PLANS.

CLEAR REMAINDER OF THE SITE (AS INDICATED ON THE PLANS), RESPREAD STOCKPILES AND STABILIZE IN ACCORDANCE WITH TEMPORARY STABILIZED SPECIFICATION.

COMPLETE SITE IMPROVEMENTS (SEE BELOW). SPREAD TOPSOIL AND SEED EXPOSED AREAS. MAINTAIN SILT FENCE AND SEDIMENTATION PROTECTION UNTIL SUFFICIENT VEGETATIVE COVER IS ESTABLISHED.

SITE IMPROVEMENTS, CONSTRUCTION SEQUENCE

INSTALL CHAIN LINK FENCE

INSTALL STAGING AREA. CONSTRUCT ITEMS 3-5 IN THE FOLLOWING ORDER: A1. A2. A3. B1. C1. C2. D1. D2. B2. B3.

COMPLETE LANDSCAPING, PERMANENT STABILIZATION.

INSTALL POST FOUNDATIONS (IF NECESSARY) AND CONCRETE SLABS.

INSTALL RACKING. **INSTALL SOLAR MODULES.**

INSTALL ELECTRICAL CONDUIT. INSTALL GROUNDING

INSTALL INVERTERS. INSTALL TRANSFORMERS

INSTALL SWITCHERS.

INSTALL COMBINER.

INSTALL DISCONNECT

INSTALL CABLE. INSTALL LANDSCAPING REMOVE STAGING AREA AND REVEGETATE.

FOLLOW MANUFACTURES RECOMMENDATION FOR

FINAL CLEAN-UP.

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AGRONOMIC SPECIFICATIONS FOR LAWNS AND

GENERAL NOTES

I. ALL DISTURBED AREAS THAT ARE NOT BEING GRADED, NOT UNDER ACTIVE CONSTRUCTION, OR NOT SCHEDULED TO BE PERMANENTLY SEEDED WITHIN 30 DAYS MUST BE TEMPORARILY STABILIZED AS PER SPECIFICATIONS BELOW.

. ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED ARE TO BE SEEDED AND MULCHED WITHIN 10

3. STRAW MULCH (HAY MULCH MAY BE SUBSTITUTED IF APPROVED BY THE DISTRICT) IS TO BE APPLIED TO ALL SEEDLINGS AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (APPROXIMATELY 100 TO 130 BALES PER ACRE).

MULCH ANCHORING IS REQUIRED AFTER MULCHING TO MINIMIZE LOSS BY WIND OR WATER. THIS IS TO BE DONE USING ONE OF THE METHODS (CRIMPING, LIQUID MULCH BINDERS, NETTINGS, ETC.) IN THE "STANDARDS FOR SOIL **EROSION AND SEDIMENT CONTROL IN NEW JERSEY"**

5. EXISTING WEEDY AND POORLY-VEGETATED AREAS WITH LESS THAN 75 PERCENT PERENNIAL GRASS COVER MUST RECEIVE PERMANENT STABILIZATION (AS SPECIFIED BELOW).

6. ALL BAGS NEED TO BE SAVED FOR LIME, FERTILIZER, SEED, AND LIQUID MULCH BINDER (IF USED AS MULCH ANCHORING METHOD). SUCH PROOFS NEED TO BE SUBMITTED TO THE DISTRICT INSPECTOR FOR VERIFICATION OF MATERIALS AND QUANTITIES USED FOR ALL SEEDLINGS.

SEED-BED PREPARATION FOR ALL SEEDLINGS

SUB-SOIL PREPARATION: IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SURFACE SHOULD BE SCARIFIED TO A DEPTH OF 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION (E.G. AREAS OF HEAVY CONSTRUCTION TRAFFIC). THIS PRACTICE IS TO BE APPLIED TO ALL COMPACTED AREAS WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).

TOPSOILING: AREAS TO BE SEEDED SHOULD HAVE A MINIMUM OF 5" OF FRIABLE, LOAMY, TOPSOIL FREE OF OBJECTIONABLE STONES AND DEBRIS.

FINAL GRADING: GRADING IS TO BE SMOOTH OF RUTS AND FREE OF OBJECTIONABLE STONES, DEPRESSIONS, VEHICLE TRACKS, AND ROUGH EDGES. THERE IS TO BE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND DWELLINGS. REFUSE FROM SEEDBED PREPARATION (ROOTS, STICKS, STONES, CONSTRUCTION DEBRIS) MUST BE DISPOSED OF

LIMING/FERTILIZING: APPLY LIMESTONE AND FERTILIZER TO SOIL TEST RECOMMENDATIONS OR AS FOLLOWS:

A. LIME TO BE APPLIED AT THE RATE OF 2 TONS (4,000 LBS.) PER ACRE. LIME MAY BE ANY PRODUCT TYPE AS LONG AS THE CCE (CALCIUM CARBONATE EQUIVALENT) EQUALS 2 TONS PER ACRE. PELLETIZED AND LIQUID PRODUCTS MAY BE PREFERRED BECAUSE OF THEIR LACK OF DUST AND EASE OF HANDLING, BUT MUST MEET THE AFOREMENTIONED

B. STARTER FERTILIZER, SPECIFIED AS 10-20-10, IS TO BE APPLIED AT 500 LBS. PER ACRE.

C. LIME AND FERTILIZER ARE TO WORKED INTO THE SOIL TO A DEPTH OF 4 INCHES.

TEMPORARY STABILIZATION WITH MULCH ONLY

STRAW MULCH (HAY MULCH MAY BE SUBSTITUTED IF APPROVED BY THE DISTRICT) IS TO BE SPREAD UNIFORMLY AT THE RATE OF 2 TO 2-1/2 TONS PER ACRE (TOTAL GROUND SURFACE COVERAGE). THIS PRACTICE IS LIMITED TO PERIODS WHEN VEGETATIVE COVER CANNOT BE ESTABLISHED DUE TO THE SEASON OR OTHER CONDITIONS. MULCH MUST BE ANCHORED IN ACCORDANCE WITH NEW JERSEY STANDARD FOR SOIL EROSION AND SEDIMENT CONTROL. MULCH ALONE CAN ONLY BE USED FOR SHORT PERIODS AND WILL REQUIRE MAINTENANCE AND RENEWAL. OTHER MULCH MATERIALS MAY BE UTILIZED IF APPROVED BY THE DISTRICT

TEMPORARY SEEDING WILL BE USED ON ALL DISTURBED AREAS WHERE PERMANENT STABILIZATION WILL NOT BE ACCOMPLISHED FOR A PERIOD UP TO 6 MONTHS.

PRODUCT RECOMMENDED OPTIMUM SEEDING DATES PERENNIAL RYEGRASS 100 LBS. PER ACRE MARCH 15 TO MAY 15 AND AUGUST 15 TO OCTOBER 1 86 LBS. PER ACRE MARCH 15 TO JUNE 1 AND AUGUST 1 TO OCTOBER 1 SPRING OATS 112 LBS. PER ACRE AUGUST 1 TO NOVEMBER 15 WINTER CEREAL RYE WINTER BARLEY 96 LBS_PER ACRE AUGUST 15 TO OCTOBER 1 PEARL MILLET 20 LBS PER ACRE MAY 15 TO AUGUST 15 GERMAN OR HUNGARIAN MILLET 30 LBS. PER ACRE MAY 15 TO AUGUST 15

STABILIZATION WITH SOD IS PERMITTED IN AREAS WHERE MAINTENANCE AND IRRIGATION ARE ADEQUATE TO INSURE PROPER ESTABLISHMENT AND LONGEVITY. SEEDBED PREPARATION IS TO BE CONSISTENT WITH ANY OTHER STABILIZATION REQUIREMENTS (LIME AND FERTILIZER BAGS ARE TO BE RETAINED FOR DISTRICT INSPECTION). ON SLOPES GREATER THAN 3 TO 1, SOD MUST BE PROPERLY ANCHORED TO THE SLOPE IN ACCORDANCE WITH THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.

PERMANENT SEEDING

1. SEED IS TO BE INCORPORATED INTO THE SOIL 1/4" TO 1/2".

LAWN SEEDLINGS ARE TO BE A MIXTURE OF BLUEGRASSES. TURF-TYPE FESCUES. AND TURF-TYPE PERENNIAL RYEGRASSES TO INSURE LONGEVITY, TOLERANCE, AND DURABILITY. NO SEED SHALL BE ACCEPTED WITH A GERMINATION TEST DATE OF MORE THAN 12 MONTHS OLD UNLESS RETESTED.

PROFESSIONAL SEED MIXTURES ARE RECOMMENDED RATHER THAN MIXING SEEDS YOURSEL

4. SEED MIXTURE (AS SPECIFIED BELOW) IS TO APPLIED AT A MINIMUM RATE OF 200 LBS. OF PERENNIAL SEED PER

5. OPTIMUM SEEDING PERIOD FOR HUNTERDON COUNTY IS FROM MARCH 1 TO MAY 15 AND AUGUST 15 TO OCTOBER 1. OUTSIDE OF THOSE PERIODS, THE SEEDING RATES ARE TO BE INCREASED BY 50% (I.E., 300 LBS. OF PERENNIAL SEED PER ACRE INSTEAD OF THE REQUIRED 200 LBS. PER ACRE DURING OPTIMUM PERIODS).

6. SEEDLINGS SHOULD RECEIVE AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR EQUIVALENT AT 400 LBS. PER ACRE APPROXIMATELY SIX MONTHS AFTER FIRST APPLICATION. SEEDING MIXTURE FOR GENERAL SEEDING

(EXAMPLE: LAWNS) 40% TURF-TYPE TALL FESCUE 10% CREEPING RED FESCUE

10% CHEWINGS FESCUE 10% KENTUCKY BLUEGRASS 30% TURF-TYPE PERENNIAL RYEGRASS

60% KENTUCKY BLUEGRASS 20% TURF-TYPE PERENNIAL RYEGRASS

20% CHEWINGS FESCUE

SEEDING RATE & MIXTURE FOR HIGH TRAFFIC & CRITICAL AREAS

(EXAMPLE: ATHLETIC FIELDS, WATERWAYS, DIVERSIONS, ETC.)

10% KENTUCKY BLUEGRASS 10% TURF-TYPE PERENNIAL RYEGRASS

80% TURE-TYPE TALL FESCUE

OTHER SEED MIXTURES, SUCH AS BLENDED VARIETIES OF PERENNIAL TURF-TYPE RYEGRASSES, TURF-TYPE TALL

FESCUES, OR BLUEGRASSES MAY ALSO BE ACCEPTABLE IF APPROVED BY THE DISTRICT. (EXAMPLE: CUT AND FILL SLOPES NOT GOING TO BE MOWED)

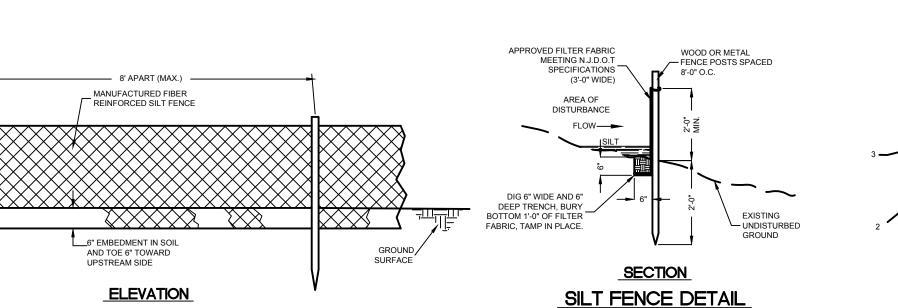
KENTUCKY 31 FESCUE -- 50 LBS./ACRE CROWN VETCH -- 10 LBS./ACRE

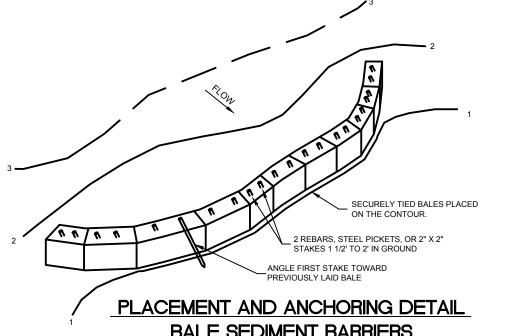
SEEDING RATE FOR WILDFLOWER MEADOWS AND OTHER AREAS WHERE MOWING IS TO BE LIMITED

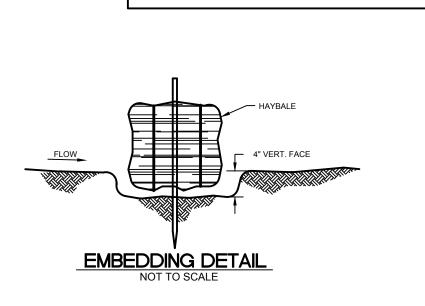
HARD OR SHEEP FESCUE -- 55 LBS./ACRE PRE-PACKAGES WILDFLOWER MIX-- APPLIED PER MANUFACTURER'S RECOMMENDATIONS

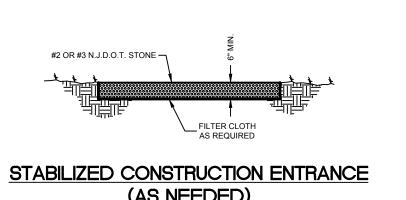
SEEDING RATE AND MIXTURE FOR DETENTION BASINS

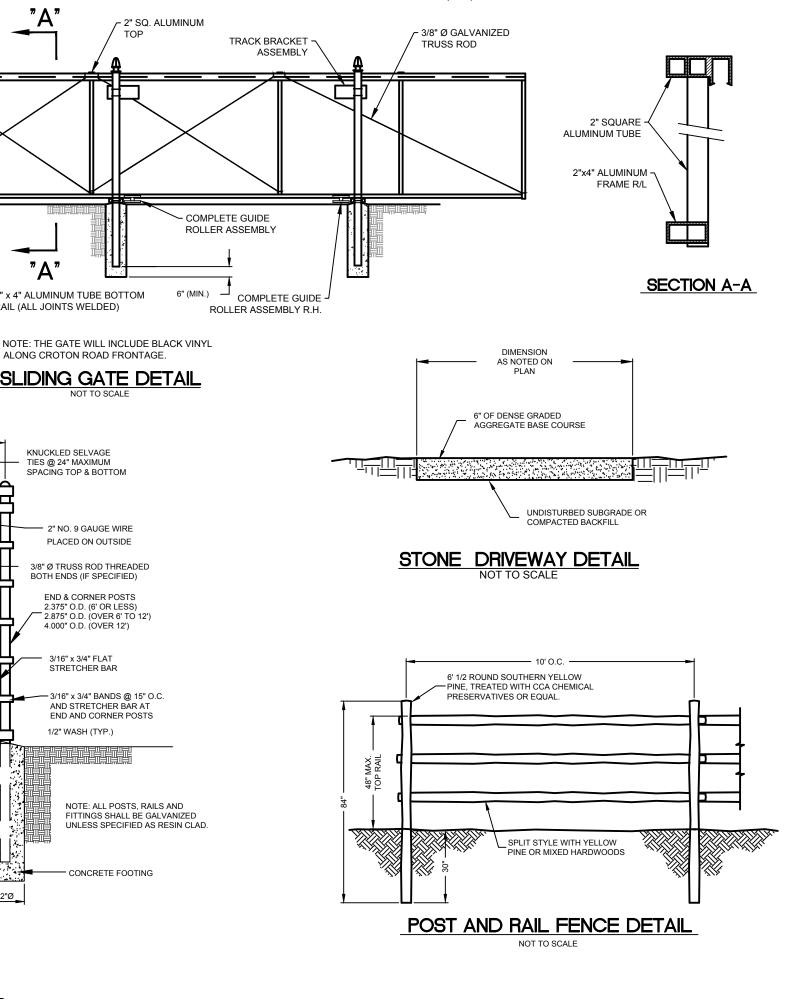
PRE-PACKAGES. SUCH AS FACULTATIVE WETLAND MEADOW MIX, MANUFACTURED BY ERNST CONSERVATION SEEDS (800)-873-3321 OR OTHER EQUIVALENT SOURCE -- APPLIED PER MANUFACTURERS RECOMMENDATIONS. USE TEMPORARY SEEDLINGS OF NON-COMPETITIVE SPECIES FOR STABILIZATION DURING CONSTRUCTION.











— OMIT FABRIC —

- CONCRETE

FOOTING (TYP.)

CHAIN LINK FENCE DETAIL

NOTES:

BOTTOM RAIL

NOTE: THE FENCE WILL INCLUDE BLACK

SHRUB SHALL BEAR SAME RELATION

TO FINISH GRADE AS IT DID TO

3" HIGH MOUNDED EARTH SAUCER

SCARIFY SETTING BED TO 3" DEPTH

DRAINAGE MOUND COMPACTED TO 92%

SOIL MIXTURE AS SPECIFIED

ITS NURSERY FIELD GROWN GRADE

VINYL ALONG CROTON ROAD FRONTAGE

1.66" O.D. (IF SPECIFIED)

TIES @ 24" MAX. SPACING

TOP & BOTTOM

" No. 9 GUAGE W

* CANTILEVER SLIDE GATE BY ANCHOR FENCE

PLACED ON OUTS

- 3/16" x 3/4" FLAT

STRETCHER BAR

- PROVIDE WHEEL

OR APPROVED EQUAL

— 10'-0" MAX.

END, CORNER & INTERMEDIATE PANELS

- GATE IN CLOSED POSITION

 GALVANIZED GATE POSTS 4" Ø

SLIDE GATE -

ASSEMBLY

1/2" WASH (TYP.)

- CONCRETE FOOTING SIZING

NOTE: ON TOP & BOTTOM RAI

AT EACH JOINT

→ 8"Ø 🔫

LINE POSTS

2.375" O.D. (OVER 6' TO 8')

SHRUB PLANTING DETAIL

REMOVE ANY WRAP USED FOR

SITE. INSTALL RIGID PLASTIC

PROTECTOR TUBES TO THE

3" THICK MULCH

DO NOT PLACE MULCH IN

HEIGHT OF THE 1ST BRANCH TO

PROTECT TRUNK FROM GRAZING

TRANSPORT, DO NOT RE-WRAP ON

PER MANUFACTURER

SCHEDULE 40

~ 2" SQ. ALUMINUM

└ 2" x 4" ALUMINUM TUBE BOTTOM

KNUCKLED SELVAGE

FIES @ 24" MAXIMUM

SPACING TOP & BOTTOM

2" NO. 9 GAUGE WIRE

3/8" Ø TRUSS ROD THREADED BOTH ENDS (IF SPECIFIED

2.375" O.D. (6' OR LESS

3/16" x 3/4" FLA7

1/2" WASH (TYP.)

875" O.D. (OVER 6' TO 13 4.000" O.D. (OVER 12')

3/16" x 3/4" BANDS @ 15" O C

NOTE: ALL POSTS, RAILS AND

CONCRETE FOOTING

FITTINGS SHALL BE GALVANIZED

UNLESS SPECIFIED AS RESIN CLAD

AND STRETCHER BAR AT

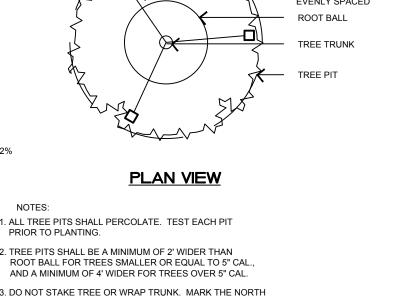
END AND CORNER POSTS

PLACED ON OUTSIDE

ALONG CROTON ROAD FRONTAGE

SLIDING GATE DETAIL

RAIL (ALL JOINTS WELDED)



PRIOR TO PLANTING. 2. TREE PITS SHALL BE A MINIMUM OF 2' WIDER THAN AND A MINIMUM OF 4' WIDER FOR TREES OVER 5" CAL. 3. DO NOT STAKE TREE OR WRAP TRUNK. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD DO NOT PRUNE TREE AT PLANTING EXCEPT TO PRUNE DAMAGED AND CONFLICTING BRANCHES MAINTAINING NORMAL TREE SHAPE. NEVER CUT CENTRAL LEADER OR TRUNK. SET ROOT BALL FLUSH TO GRADE . IN POORLY DRAINING SOILS, SET ROOT BALL SEVERAL INCHES HIGHER THAN GRADE AFTER SETTLEMENT TREE SHALL BE PLUMB AND BEAR SAME RFI ATIONSHIP TO FINISH GRADE AS IT DID TO ITS NURSERY AND FIELD GROWN GRADE. CAREFULLY CUT AND REMOVE BURLAP & TWINE FROM TOP 1/3 OF ROOT BALL AND/OR CAREFULLY CUT TOP BANDS OF WIRE BASKET FROM TOP 1/3 OF ROOT BALL — 3" HIGH MOUNDED EARTH SAUCER FINISHED GRADE

PLANTING PIT WITH SOIL MIX AS SPECIFIED DIG A WIDE SHALLOW HOLE WITH TAPERED SIDES SCARIFY BOTTOM OF PLANTING PIT TO ENSURE POROSITY (SEE NOTE ABOVE) DRAINAGE MOUND OF UNDISTURBED SUBGRADE. MINIMUM COMPACTION 95%. TAMP SOIL SOLIDLY AROUND

PLANTING DETAIL DECIDUOUS TREES (4.0" CAL.

GENERAL LANDSCAPE NOTES: S PLAN SHALL BE USED FOR LANDSCAPE PLANTING AND LIGHTING LAYOUT PURPOSES.

2. THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY

3. THE LOCATIONS OF ALL PLANT MATERIAL INDICATED ON THE LANDSCAPE PLANS ARE APPROXIMATE. THE FINAL LOCATION OF ALL PLANT MATERIAL AND PLANTING BED LINES SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT

4. ALL PLANT MATERIAL SHALL MEET THE STANDARDS OF AMERICAN STANDARD FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN (1990), OR MOST RECENT EDITION, AND THE HEIGHT, SPREAD AND/OR CALIPER FOR TREES AND SHRUBS LISTED IN THE TOWNSHIP RECOMMENDED PLANT LIST.

5. ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT PLANTING PRACTICES AND AS SHOWN ON THE DETAILS THIS SHEET.

6. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY; AND SHALL HAVE NORMAL, WELL-DEVELOPED BRANCHES AND VIGOROUS FIBROUS ROOT SYSTEMS. ALL PLANTS SHALL BE NURSERY-GROWN UNLESS. OTHERWISE STATED; THEY SHALL HAVE BEEN GROWING UNDER THE SAME CLIMATE CONDITIONS AS THE MUNICIPALITY FOR AT LEAST TWO (2) YEARS PRIOR TO DATE OF PLANTING. ALL PLANTS WHICH ARE FOUND

UNSUITABLE IN GROWTH OR CONDITION OR WHICH ARE NOT TRUE TO NAME SHALL BE REMOVED AND

REPLACED WITH ACCEPTABLE PLANTS. 7. ALL PLANT MATERIAL SHALL BE TWICE TRANSPLANTED, NURSERY-GROWN OF SPECIMEN QUALITY. THEY SHALL BE OF SYMMETRICAL GROWTH OR TYPICAL OF THE VARIETY AND SUPPLIED FROM SOURCES IN THE

SAME HARDINESS ZONE AS THE DEVELOPMENT IS LOCATED AND FREE OF INSECT AND DISEASE PROBLEMS

8. ALL PRECAUTIONS CUSTOMARY IN GOOD TRADE PRACTICE SHALL BE TAKEN IN PREPARING PLANTS FOR MOVING. ALL BALLED AND BURLAPPED PLANTS SHALL BE DUG TO MEET OR EXCEED THE "USDA STANDARDS FOR 9. PLANTS SHALL BE PACKED, TRANSPORTED AND HANDLED WITH UTMOST CARE TO INSURE ADEQUATE

PROTECTION AGAINST INJURY 10. PROPOSED TREES SHALL NOT BE PLANTED WITHIN TEN (10) FEET OF UNDERGROUND UTILITIES AND FIFTEEN (15) FEET OF OVERHEAD UTILITIES.

11. PROVIDE PLANTING PITS AS INDICATED ON PLANTING DETAILS. BACKFILL PLANTING PITS WITH ONE PART

EACH OF TOPSOIL, PEAT MOSS AND PARENT MATERIAL. IF WET SOIL CONDITIONS EXIST, THEN PLANTING PITS

SHALL BE EXCAVATED AN ADDITIONAL 12" AND FILLED WITH SAND. 12. ALL PLANT MATERIAL SHALL BE PROPERLY GUYED, STAKED, WRAPPED AND PLANTED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS. GUY WIRES SHALL BE ATTACHED TO THE TREE AT TWO-THIRDS THE HEIGHT OF THE TREE AND SHOULD BE LOCATED AT POINTS SO AS NOT TO SPLIT THE TRUNKS OF MULTI-STEMMED TREES. PROVIDE TWO TO THREE TREE STAKES PER TREE AS NOTED ON THE PLANTING DETAIL. INSTALL ALL PLANT MATERIAL ON UNDISTURBED GRADE. PROVIDE BURLAP WRAPPING WITH A 50% OVERLAP. CUT AND REMOVE BURLAP FROM TOP ONE-THIRD OF THE ROOT BALL.

13. ALL PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT DID TO EXISTING GRADE. PLANT TREES SO THAT THE ROOT FLARE IS AT OR ABOVE THE FINISH GRADE. 14. ALL SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 7'-0" ABOVE GRADE. ALL SHRUBBERY MATERIAL LOCATED WITHIN SIGHT TRIANGLES SHALL NOT EXCEED A MATURE HEIGHT OF 3' ABOVE THE ELEVATION OF THE ADJACENT CURB. ALL SHADE TREES PLANTED OR EXISTING TREES LOCATED IN SIGHT TRIANGLES SHALL BE PRUNED SO AS NOT TO HAVE BRANCHES BELOW 7'-0".

15. NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION. REGULAR ATERING OF ALL PLANT MATERIAL SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT, GROWTH AND SURVIVAL OF ALL PLANTS.

16. ALL DISTURBED LAWN AREAS SHALL BE STABILIZED WITH SEED AS INDICATED ON THE LANDSCAPE PLANS. SEED MIXTURE SHALL BE AS LISTED IN THE SEEDING SCHEDULE ON THE LANDSCAPE AND LIGHTING PLAN. ALL DISTURBED LAWN AREAS SHALL BE TOPSOILED, LIMED, FERTILIZED AND FINE GRADED PRIOR TO LAWN

17. ALL PLANTING BEDS SHALL RECEIVE A MINIMUM 4" OF SHREDDED HARDWOOD BARK MULCH.

18. ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS. 19. ANY TREE OR SHRUB THAT DIES WITHIN TWO (2) YEARS OF PLANTING SHALL BE REPLACED BY THE CURRENT

LANDOWNER OR DEVELOPER. ANY TREE OR SHRUB THAT DIES WITHIN TWO (2) YEARS OF PLANTING OR REPLANTING IS DEEMED, IN THE OPINION OF THE MUNICIPALITY, NOT TO HAVE SURVIVED OR NOT TO HAVE GROWN IN A MANNER CHARACTERISTIC OF ITS TYPE, SHALL BE REPLACED. SUBSTITUTIONS FOR CERTAIN SPECIES OF PLANT MAY BE MADE WHEN APPROVED BY THE MUNICIPALIT

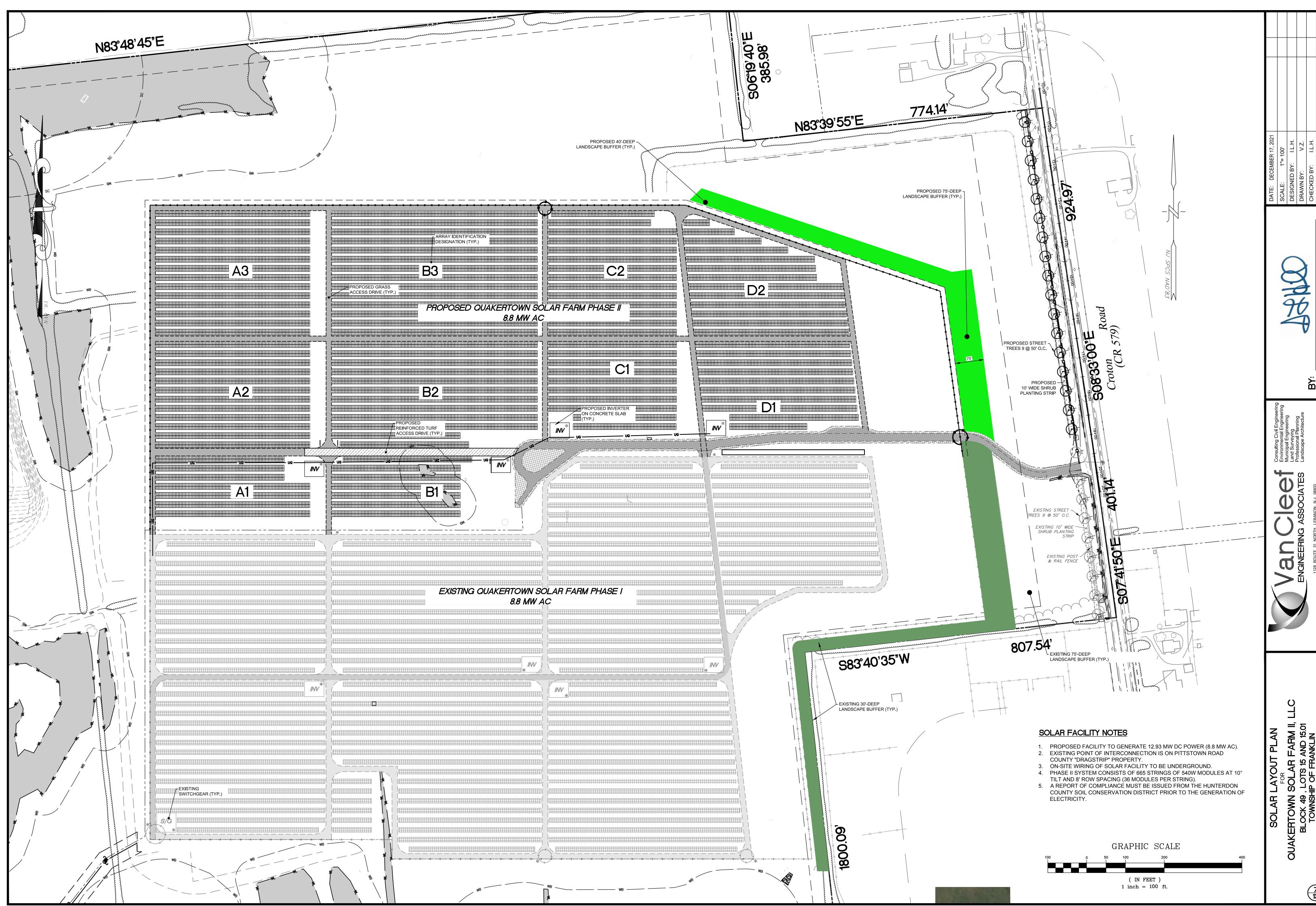
20. ANY PLANT MATERIAL OF WHICH 25% OR MORE IS DEAD SHALL BE CONSIDERED DEAD. A TREE SHALL BE CONSIDERED DEAD WHEN THE MAIN LEADER HAS DIED OR 25% OF THE CROWN IS DEAD. ANY DEAD PLANT SHALL BE REPLACED AND INSTALLED ACCORDING TO APPROVED PLANTING PRACTICES.

21. ALL EXISTING TREES AND SHRUBS TO BE PRESERVED ON SITE SHALL BE PROTECTED AGAINST CONSTRUCTION DAMAGE BY TREE PROTECTION FENCING. ALL FENCING SHALL BE PLACED OUTSIDE THE INDIVIDUAL TREE CANOPY, OR AT THE SPECIFIC LOCATION DETERMINED APPROPRIATE BY THE LANDSCAPE ARCHITECT, ALL TREES TO REMAIN SHALL BE IDENTIFIED IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION, GRADING OR CLEARING. ALL EXISTING VEGETATION BEING PRESERVED AND LOCATED AT THE EDGE OF THE NEW TREELINE SHALL BE PRUNED AND TRIMMED TO REMOVE DEAD OR DAMAGED BRANCHES. SEE DETAILS FOR TREE PROTECTION.

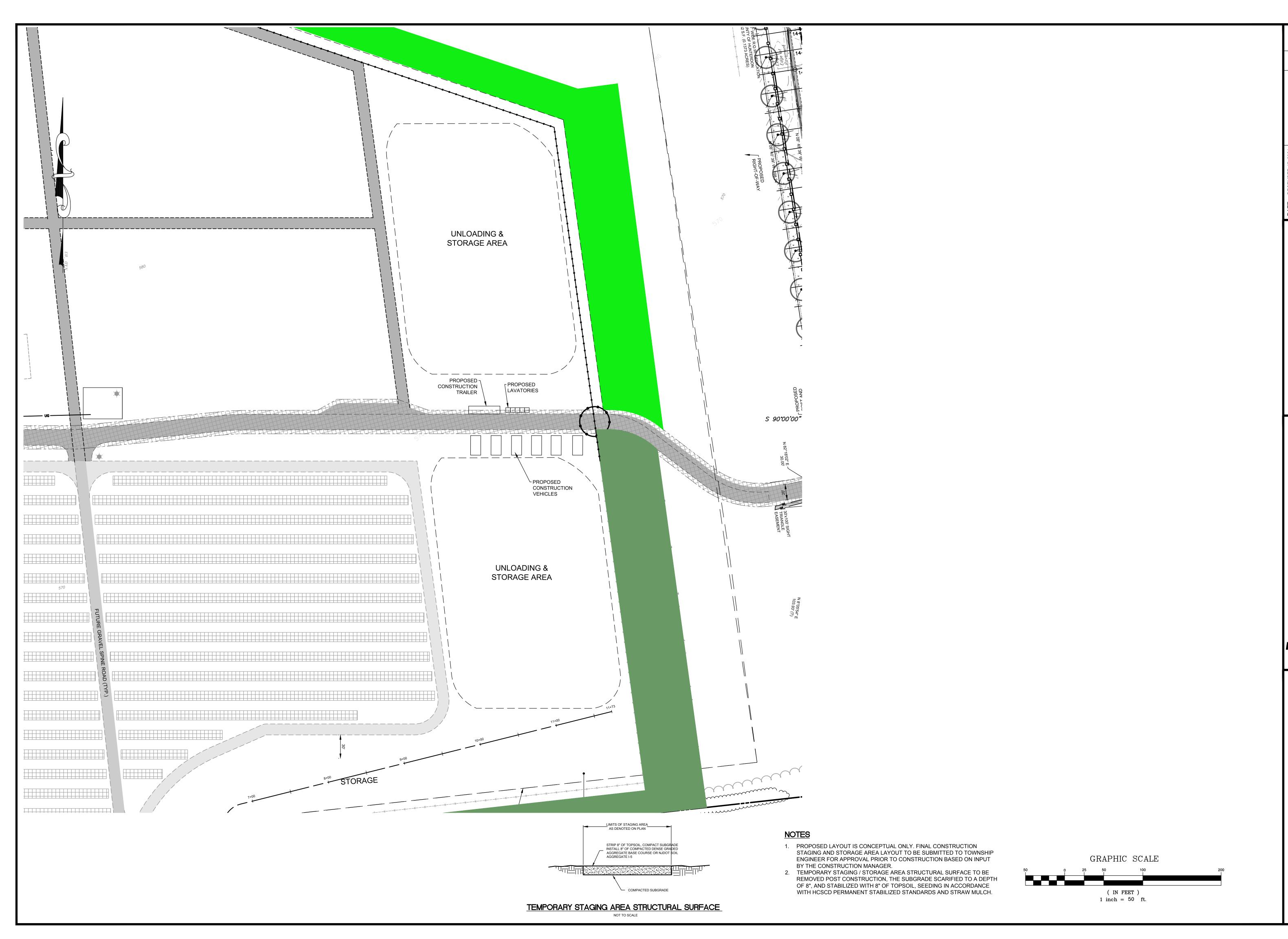
22. NOXIOUS AND INVASIVE PLANT MATERIALS (i.e. MULTIFLORA ROSE, HONEYSUCKLE, PURPLE LOOSESTRIFE, RUSSIAN AND AUTUMN OLIVES, REED, CATTAIL, AND OTHER PLANTS IDENTIFIED AS INVASIVE PLANTS BY

23. LANDSCAPING IS A CONDITION OF APPROVAL THAT RUNS WITH THE LAND AND THE LANDSCAPING SHALL BE MAINTAINED FOR THE LIFE OF THE PROJECT. ANY LANDSCAPING THAT DIES AFTER THE EXPIRATION OF THE 2-YEAR LANDSCAPING GUARANTEE SHALL BE REPLACED AT THE OWNER'S EXPENSE.





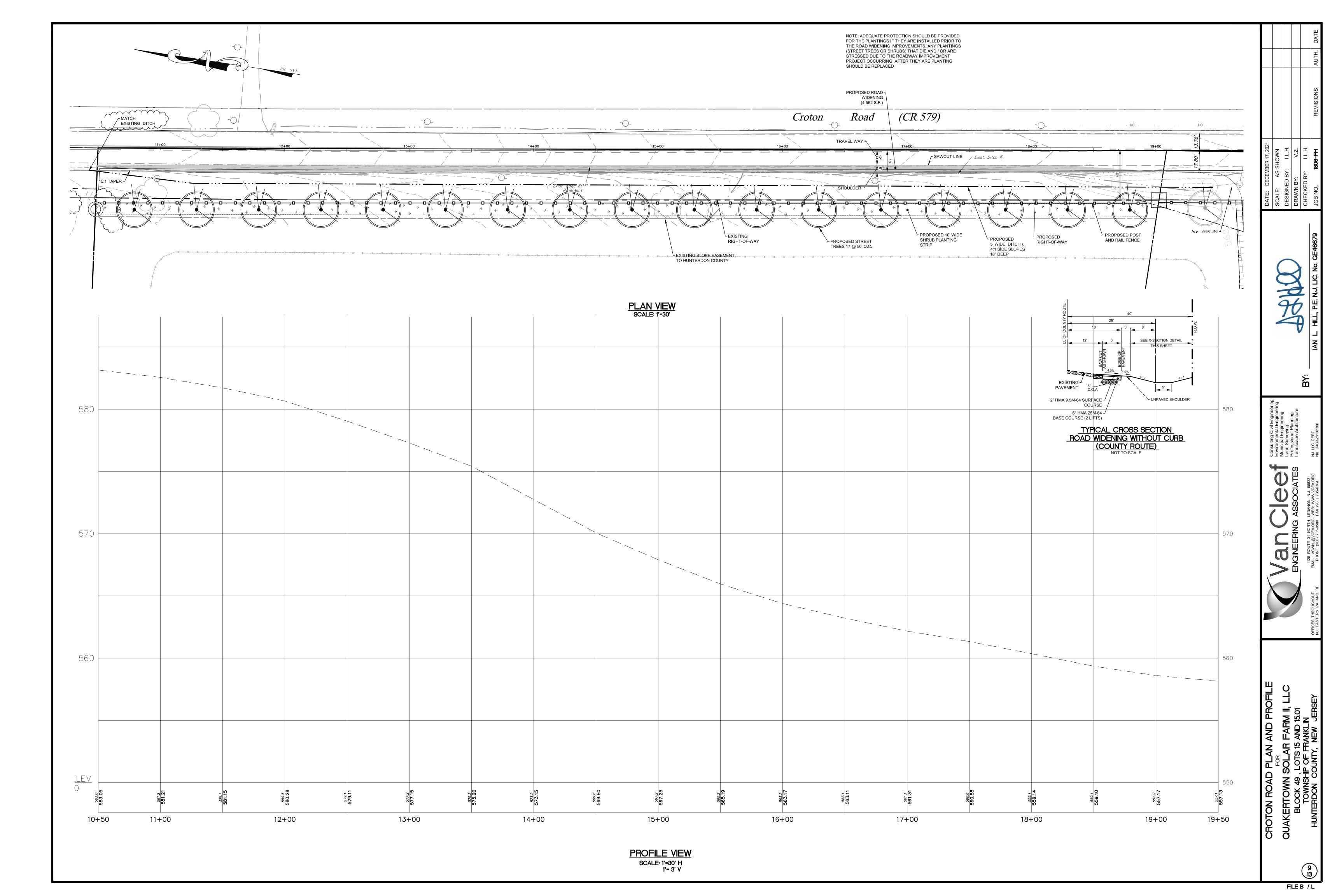
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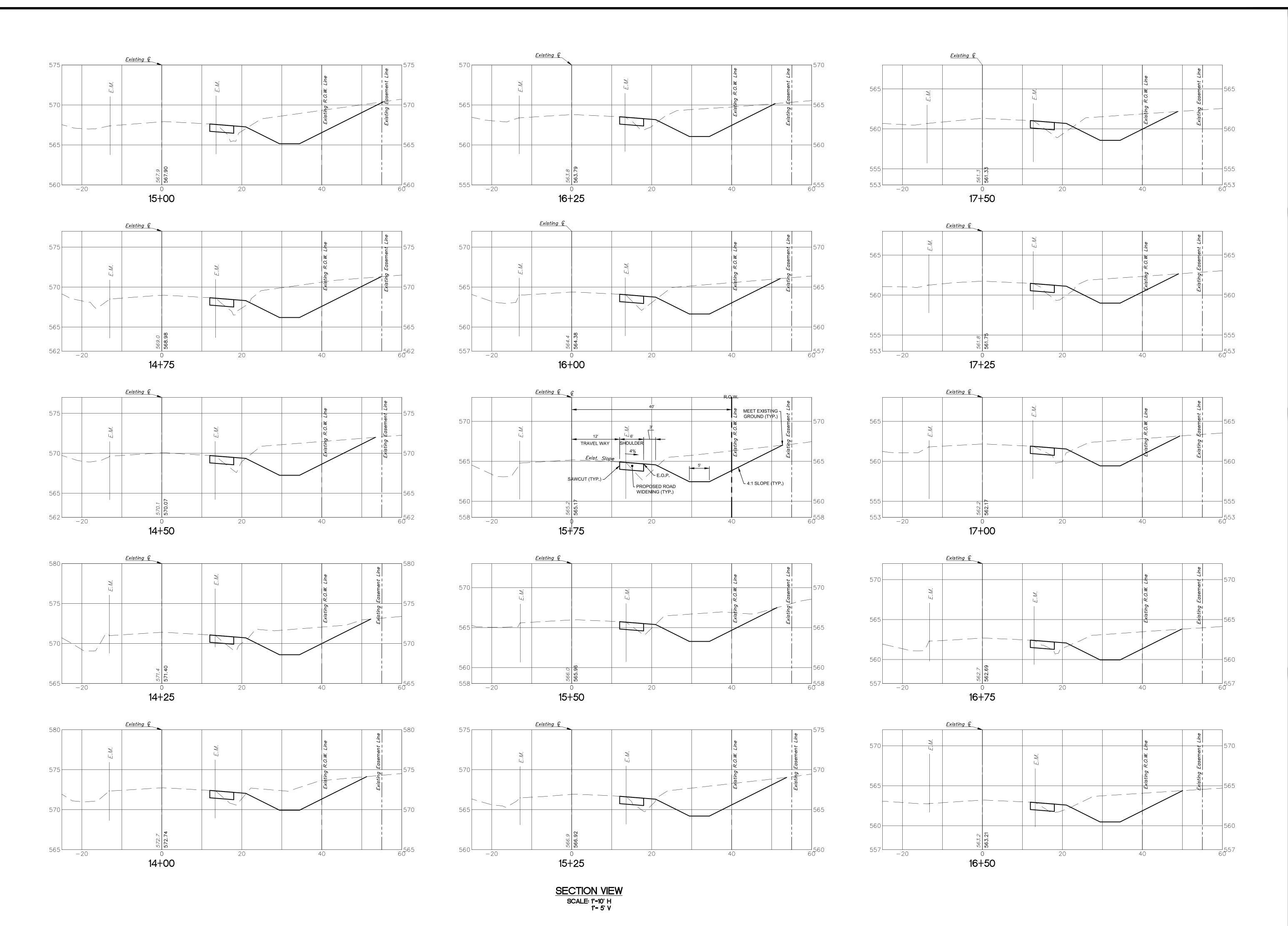


FILE B / L

ONSTRUCTION STAGING
FOR
QUAKERTOWN SOLA
BLOCK 49 , LOTS

SNO O 8 13





COLUMNIA SOCIATES

TATAB ROUTE 31 NORTH, LEBANON, N.J. 08833

TATAB ROUTE 31 NORTH, LEBANON, N.J. 08833

TATABRANCH PA AND DE PHONE (908) 735-9500 FAX (908) 735-6364

N., EASTERN PA AND DE PHONE (908) 735-9500 FAX (908) 735-6364

No.

BY∷

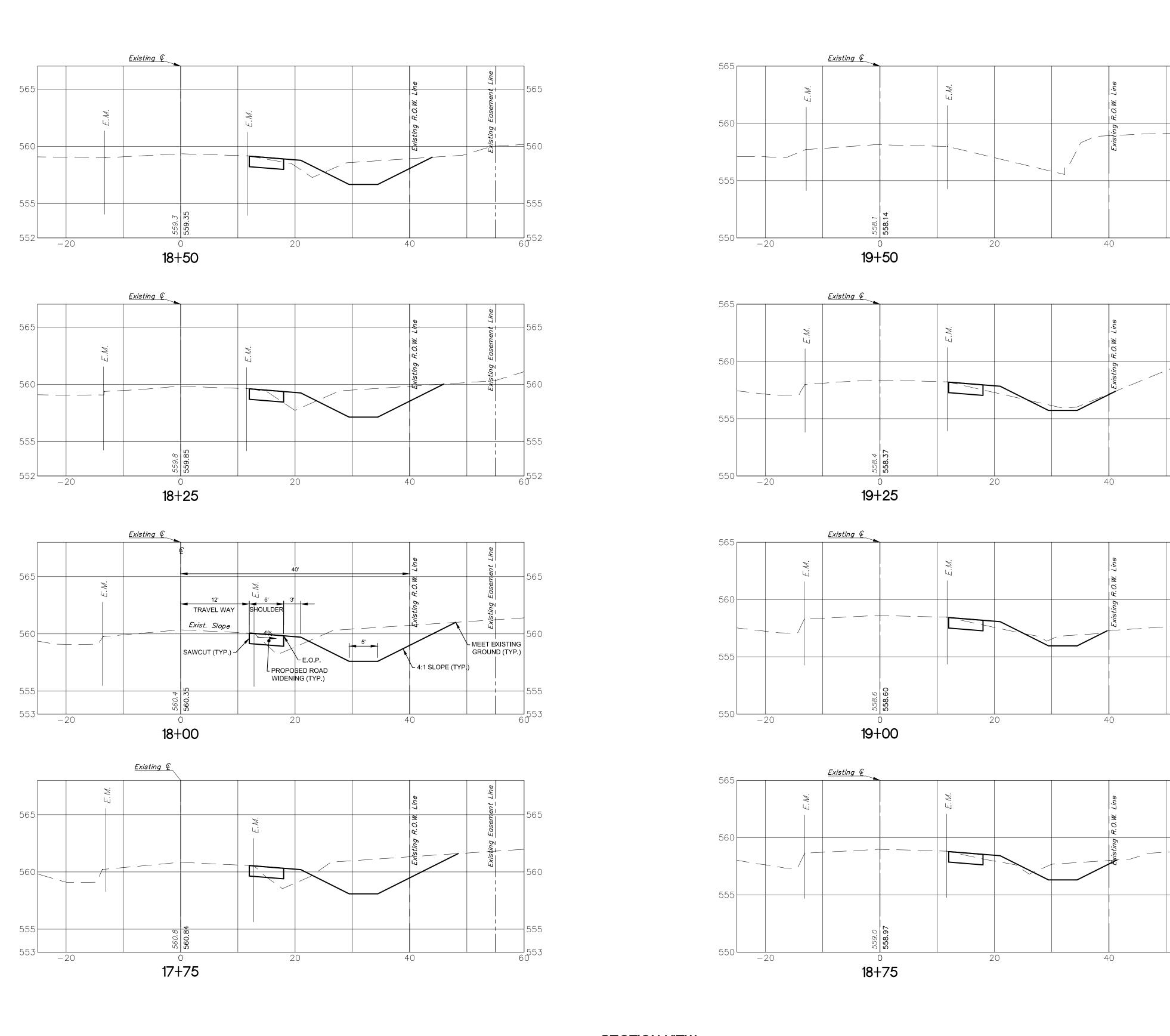
CROTON ROAD CROSS SECTIONS

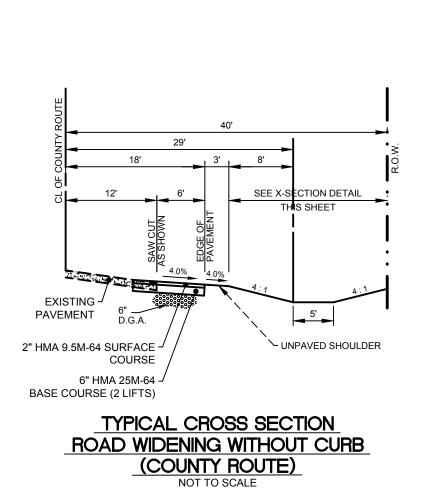
QUAKERTOWN SOLAR FARM II, LLC

BLOCK 49, LOTS 15 AND 15.01

TOWNSHIP OF FRANKLIN

HUNTERDON COUNTY, NEW JERSEY

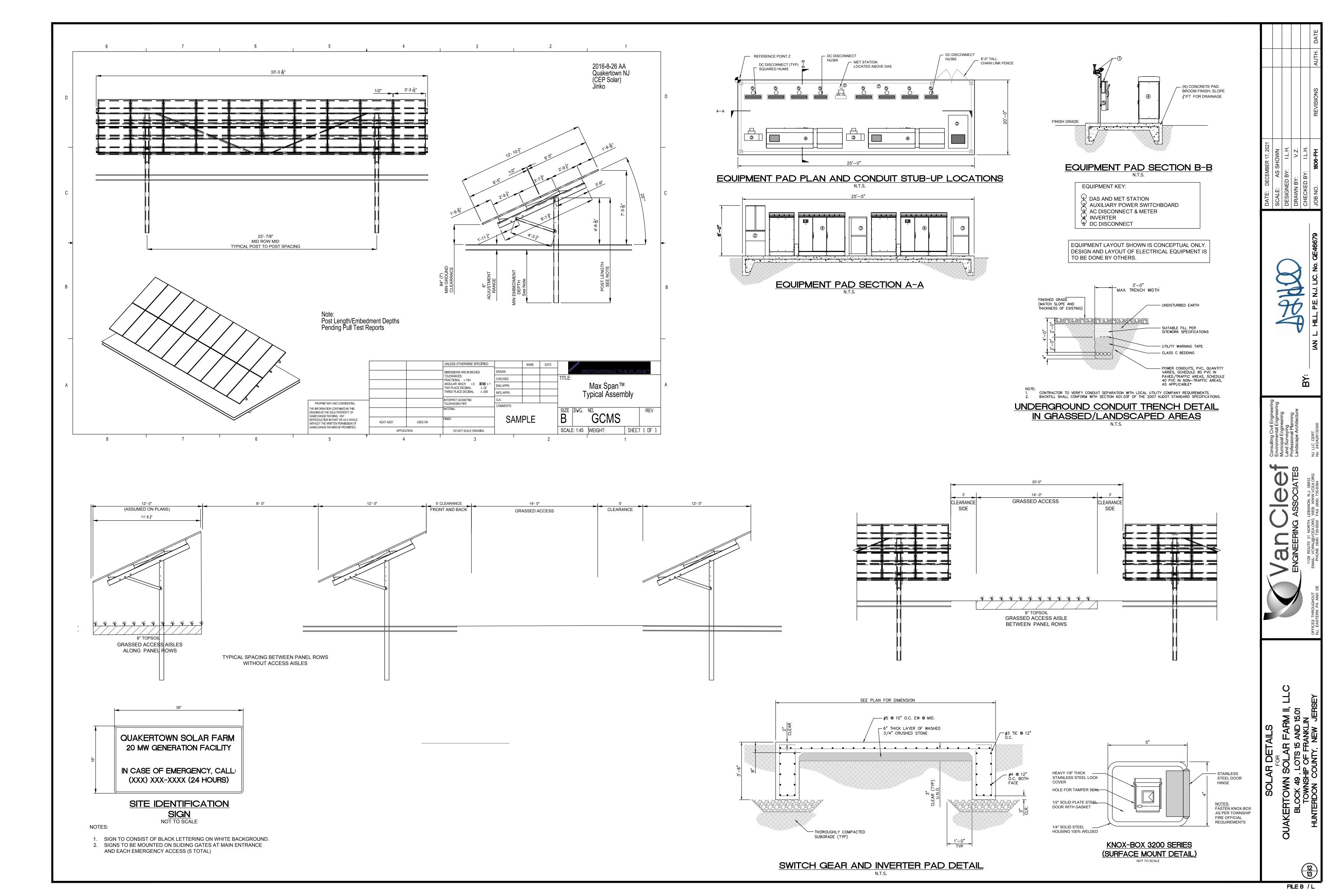




SECTION VIEW
SCALE: 1"=10" H
1"= 5" V

CROTON ROAD CROSS SECTIONS

COUAKERTOWN SOLAR FARM II, LLC



Step 1

Step 1. Project Details Provide information about the project location and requirements.

City

Choose the city that is closest in proximity to your location.

Operating Profile Requirement Choose one of the options from Table A that best represents the run time and dimming mode for your light fixture.

Wind Speed

Select the wind speed requirement for your project.

NALEN LIGHT

- FINISH GRADE

EMBERLED

4" DIA. (TYP.) -

TYPICAL DRIVEN PIER

FOUNDATION

719 West Nyack Rd.

4" DIA. (TYP.) -/

TYPICAL HELICAL PIER

FOUNDATION

T 201.228.0880 info@emberled.com West Nyack, NY 10994 www.emberled.com

Table A. eSHINE Series Operating Profile Options

14 hours - 100% (All Night Operation) 14 hours

5 hours - OFF 9 hours

1 hour-100% 6 hours

3 hours

1 hour-100% 3 hours

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GRASS ACCESS -

Mode Dusk — 14 hours Dawn Total Run

9–2 6 hours - 100% 5 hours - OFF 3 hours - 100% 9 hours

9–3 5 hours - 100% 9 hours - 50% 9 hours

9-4 4 9 hours - 50% 9 hours

6-1 6 hours - 0 FF 6 hours

3-4 1 hours - 10% 1 hours - 10% 3 hours

FINISH GRADE

6-2 4 hours - OFF 8 hours - OFF

6-3 4 hours - 20%

6-4 3 hours - 20%

3-1 3 hours - OFF 11 hours - OFF

3-2 2 hours- 11 hours - OFF

3-3 2 hours - 10%

Step 2



The vSHINE Area is the ideal fixture for solar lighting applications. Designed with cutting edge LED, it strikes the perfect balance of energy efficiency and high output, providing the highest value solar lighting system on the market. The vSHINE Area's applications range from industrial and commercial parking lot and site security lighting to residential area

Step 2. Select Luminaire

Select the vSHINE Area luminaire for your solar powered lighting system using the Performance Table below.

Fixture Selection	Fixture Color
Choose the desired fixture.	Choose the desired fixture co

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, with the tolerances allowed by Lighting Facts. Actual performance may vary as a result of end-user environment and application.

Model	LEDs Drive				3000 4000 5000		
		System Watts	Lumens	В	U	G	
VA-L16-525-T4	16		26	2523	1	0	1
VA-L32-525-T4	32		51	5047	2	0	1
VA-L40-525-T4	40	525	64	6187	2	0	2
VA-L64-525-T4	64	700	103	10093	3	0	2
VA-L80-525-T4	80		128	12374	3	0	3
VA-L120-525-T4	120		192	18420	4	0	3
VA-L16-700-T4	16		35	3107	1	0	1
VA-L32-700-T4	32		69	6214	2	0	2
VA-L40-700-T4	40		87	7618	2	0	2
VA-L64-700-T4	64		139	12428	3	0	3
VA-L80-700-T4	80		173	15236	3	0	3
VA-L120-700-T4	120		260	22680	4	0	3

All lamps are configured to 4500K-5000K. 3000K-6000K available on request- Consult with your agent for lead times.	more information. 5 The 1050 mA model is available with up to 80 LEDs.
2 BLC- Back light control is an optional extra. Please add this code next to	 6 Other body colors available upon request. 7 Standard slipfitter is 2"-2.4" OD Slipfitter with +/- 5 degree leveling
the end of the model number. The adjustable knuckle bracket can be added to the fixture to make it	adjustment.
rotate up to 130 degrees and can be used in conjunction with other	美国产业等人,以外共产业企业的基本的 。
slipfitter / tenons.	Ember LED reserves the right to make changes at any time in order to
4 External motion sensors are available. Consult your representative for	supply the best product possible.





- 16' WIDE SLIDING

GATE W / KNOX

PADLOCK (TYP.)

~ 8' HIGH CHAIN LINK

PROPOSED LIGHT POLE

15' MOUNTING HEIGHT

SWITCH-OPERATED

AND FIXTURE

West Nyack, NY 10994 www.emberled.com

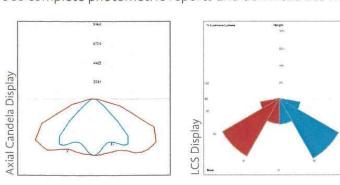
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Step 2 (continued)

Photometric Diagrams

See complete photometric reports and download .ies files here

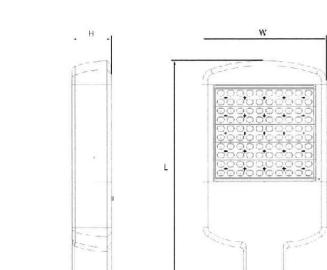


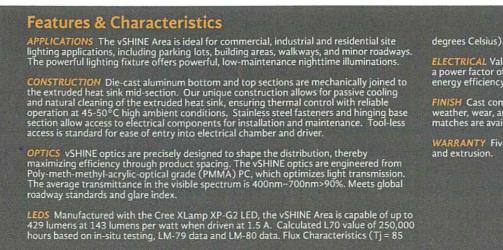
Temperature Multipliers

Ambient Te	mperature	Lumen Multipliers
0°C	32°F	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Dimensions

Model No.	Length (in)	Width (in)	Height	Weight (lb)	EPA
VA-L16-525/700	20.98	14.96	4.80	28.86	0.9
VA-L32-525/700	27.13	14.96	4.80	31.08	0.9
VA-L40-525/700	20.98	14.96	4.80	31.08	1.1
VA-L64-525/700	31.22	14.96	4.80	35.52	1.1
VA-L80-525/700	27.13	14.96	4.80	31.08	1.2
VA-L120-525/700	27.13	14.96	4.80	31.08	1.1





ELECTRICAL Valen Light Unique Solar LED Drive Engine offers up to 95% efficiency with a power factor of 0.99. Optional dimming and occupation sensor functions maximize energy efficiency and user control. WARRANTY Five year limited warranty on LEDs and driver. Ten year warranty on mole ©2015-2016 Ember LED, LLC. All rights reserv





719 West Nyack Rd.

info@emberled.com

T 201.228.0880 West Nyack, NY 10994 www.emberled.com

Use Model 3772

3772 Lock Cover De

paragraph be used:

Padlock:

Lock:

Finish:

SHROUDED

EXTERIOR

Model 3772

Heavy-duty UL

Listed cylinder.

Double-action

and hardened

steel pins ac-

stainless steel

Knox Padlock

shackle.

cessed by

KNOX®

High Security Key & Document Storage

Knox Document Cabinet securely stores facility access keys and vital emergency information. On site availability of hazardous material documents, key control, Åoor plans and evacuation data can also be included.

The cabinet is constructed of 10 gauge plate steel and is UL listed against physical attack. It is available in either a 5" or 7" depth. This versatile, 100% welded cabinet stores documents, up to 231 keys, or a combination

Several lock options are available including a single lock, a sub-mastered lock or dual lock that can be keyed to work with other Knox

The Knox Document Cabinet is ideal for on site availability of emergency information and master keys at high-rise buildings and large complexes. The cabinet meets government requirements for storage of SDSs (Safety Data Sheets), formerly knox as MSDS (Material Safety Data Sheets), pre Äre plans, Åoor plans and building evacuation instructions.

- Secure building key storage
- Drill and attack resistant construction High security locking system
- Optional tamper alert
- Dual lock conÄguration

Knox Document Cabinet

of keys and documents.

Rapid Entry devices.

Features and BeneÄts

- Immediate access to vital documents



Ordering SpeciÄcations

Knox Document Cabinet, heavy-duty UL listed, surface mount with/without UL

listed alarm tamper switches. 10 gauge plate steel housing, 100% welded.

7-point latchbar interlock. Lock shall be UL listed. Lock shall have 1/8"

KNOX COMPANY

stainless steel dust cover with tamper seal mounting capability.

Door: 10 gauge steel with added 1/4" steel front guard plate, lock protecting

hardplate, 1" security overlap, all welded deadbar protected full length hinge,

18"H x 14-1/2"W x 5" or 7"D.

coat with zinc phosphate undercoat

1300 Series Knox Cabinet, (mfr's cat. ID).

UL Listed. Double-action rotating tumblers and

hardened steel pins, accessed by a bias cut key Light grey weather resistant TGIC polyester powder

In order to ensure procurement and delivery of the Document Cabinet,

it is suggested that the following speciÄcation paragraph to be used:

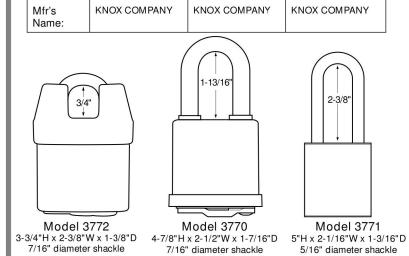
UL® listed padlock resists pull attacks.

wider range of interior hasps

padlock manufacturers Choice of ID label (Fire/red, EMS/white, Police/blue,



the Knox padlock daisy chained with the property owner's padlock allowing entry by either party.



To ensure procurement and delivery of the Knox® Exterior and

Interior Padlocks, it is suggested that the following speciÄcation

rotating tumblers | rotating tumblers

a biased cut key. a biased cut key.

Solid brass body Solid brass body

EXTERIOR

Model 3770

Heavy-duty UL

Double-action

and hardened

steel pins ac-

and cylinder with | and cylinder with | body and shackle

EPDM rubber seal | brass lock cover, | with a brass

and stainless

steel shackle.

Knox Padlock

and body cover, | EPDM body cover | cylinder.

cessed by

Heavy-duty UL

Double-action

and hardened

steel pins ac-

cessed by a

biased cut kev.

Hardened steel

Knox Padlock

| rotating tumblers

Knox Company • 1601 W. Deer Valley Road, Phoenix, AZ 85027 • (800) 552-5669 • (623) 687-2300 • Fax (623) 687-2290 • www.knoxbox.com • info@knoxbox.com © Copyright 2018. Knox Company

KNOX®

Knox Padlocks

Fire/Law Enforcement Rapid Entry System Exterior Padlock Features and BeneÄts

Knox Padlocks are operated with the same Knox Master Key used for other Knox Rapid Entry System devices. The exterior, heavy duty Knox Padlock (Model 3770) with a stainless steel shackle is designed for securing perimeter or Äre access gates, industrial equipment yards and residential storage areas. The shrouded all weather padlock (Model 3772) provides additional security against pry and cut

- Rust free, all-weather stainless steel shackle Heavy-duty lock design and solid brass body resists
- pull attacks Lock and body cover protects padlocks from harsh
- weather conditions and outdoor sprinkler systems Medeco® cylinder has a UL 437 rating not oJered by
- most padlock manufacturers · Choice of ID label (Fire/red, EMS/white, Police/blue,
- SheriJ/gold, Security/white)
- Interior Padlock Features and BeneAts The Knox interior padlock (Model 3771) is designed to secure Äre sprinkler control systems, hazardous chemical supplies, restricted utility areas and equipment lockers. The
- Hardened steel shackle; 5/16" diameter shackle Äts on a
- Heavy-duty lock design and steel body resists pull attacks Medeco cylinder has a UL 437 rating not oJered by most
- SheriJ/gold, Security/white)



Knox® Rapid Entry System

The Knox Company manufactures a complete line of high security products including KnoxBox key boxes, key vaults, cabinets, key switches, padlocks, locking FDC caps, plugs and electronic master key security systems. For more information or technical assistance, please call Customer Service at 1-800-552-5669.

AT ACCESS GATES

TYPICAL LIGHTING

Knox Company • 1601 W. Deer Valley Road, Phoenix, AZ 85027 • (800) 552-5669 • (623) 687-2300 • Fax (623) 687-2290 • Web: www.knoxbox.com • E-mail: info@knoxbox.com

Mfr's Name:

Exterior Dimensions:

FILE B / L