

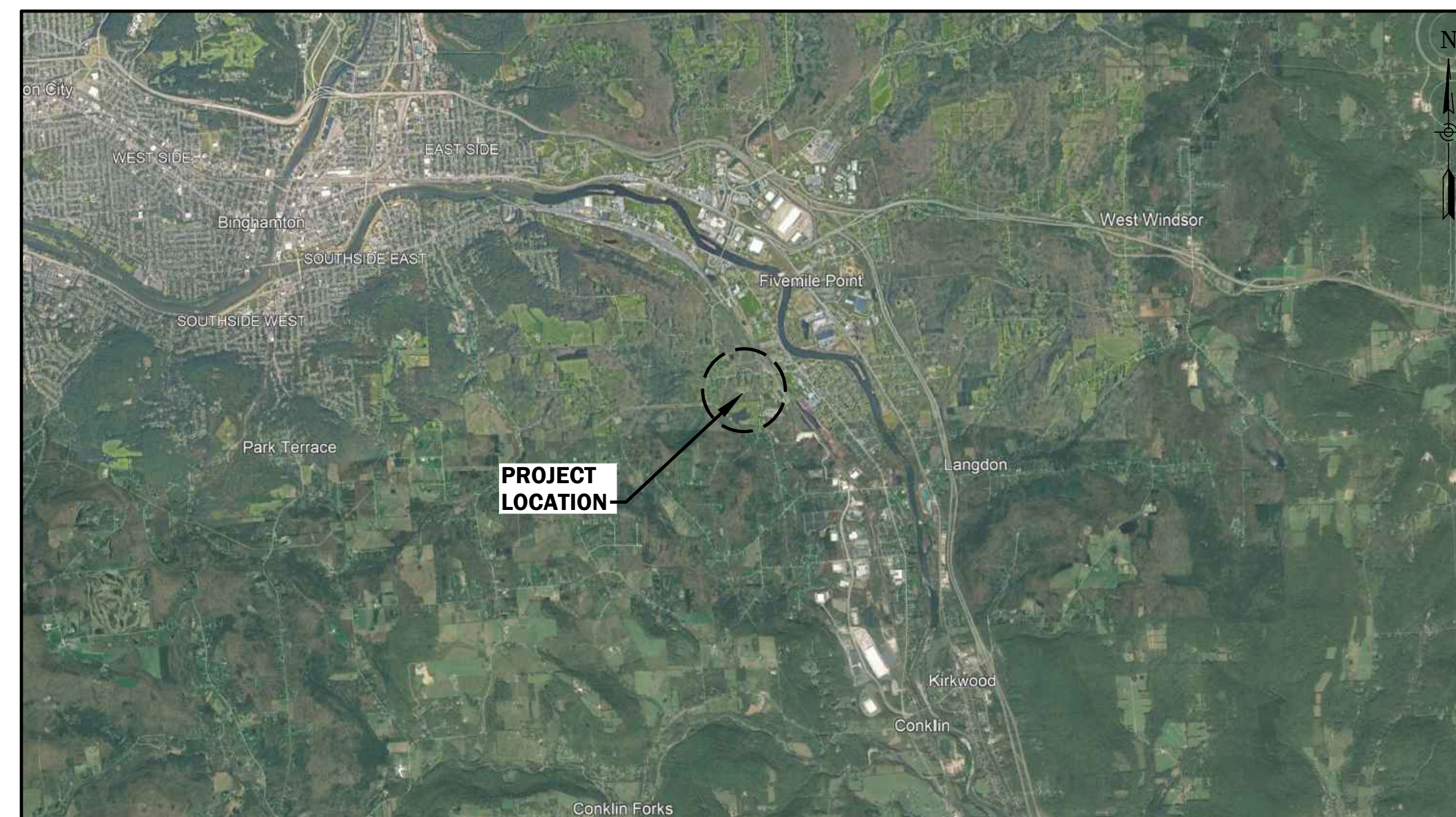
ABUNDANT SOLAR POWER (USNY-327 HARDIE RD-001) LLC HARDIE SOLAR FARM

**327 HARDIE ROAD, TOWN OF CONKLIN
BROOME COUNTY, NEW YORK**



**SEPTEMBER 2024
SITE PLAN DRAWINGS**

DRAWING INDEX	
SHEET NO.	SHEET TITLE
G001	COVER
G002	GENERAL NOTES, LEGEND, AND DRAWING INDEX
C001	EXISTING CONDITIONS AND DEMOLITION PLAN
C002	EROSION & SEDIMENT CONTROL PLAN
C101	CIVIL SITE PLAN
C102	CIVIL GRADING & DRAINAGE PLAN
C501	SITE DETAILS 1
C502	SITE DETAILS 2
C503	SITE DETAILS 3
C504	SITE DETAILS 4
C901	PHASE 1 DECOMMISSIONING PLAN
C902	PHASE 2 DECOMMISSIONING PLAN



PROJECT LOCATION MAP

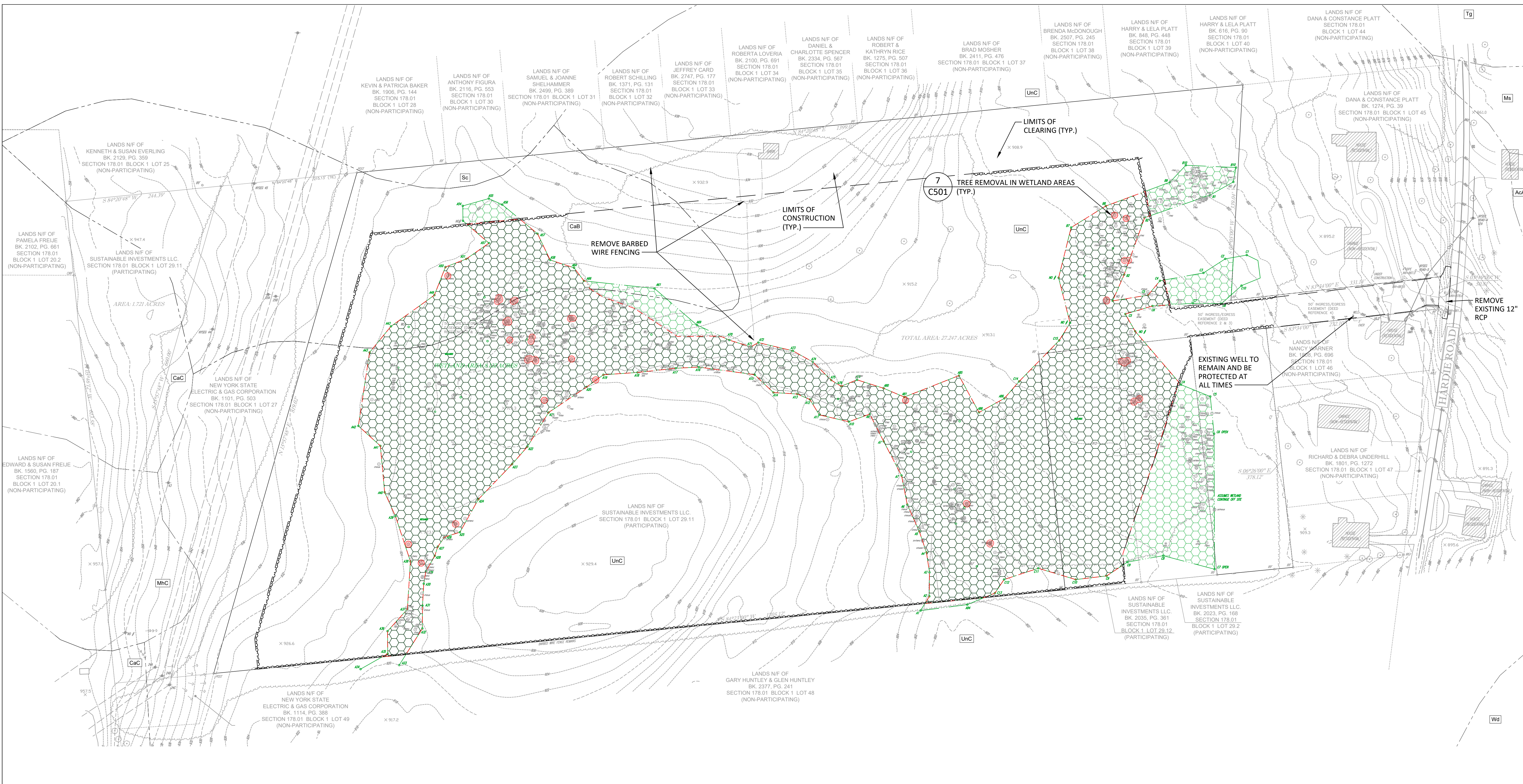
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Sheet Number	G001
Project Number	2271.005.001

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 By: kikling
 Drawn by: KJK
 Checked by: R-AM
 In charge of: CAW



EXISTING CONDITIONS LEGEND

- 410 --- MAJOR CONTOURS
- 411 --- MINOR CONTOURS
- --- PARCEL BOUNDARY
- --- EDGE OF BRUSH
- --- EDGE OF PAVEMENT
- --- EXISTING OVERHEAD UTILITIES
- X --- BARBED WIRE, CHAIN LINKED FENCE
- --- DECIDUOUS TREE
- --- SANITARY MANHOLE
- --- UTILITY POLE
- + 307.62 --- SPOT ELEVATION
- --- CAPPED IRON ROD FOUND
- --- IRON ROD FOUND
- --- IRON PIPE FOUND
- --- WETLAND FLAG FOUND
- --- WETLAND BOUNDARY FLAG
- --- DELINEATED WETLAND BOUNDARY
- --- EXISTING UNPAVED ROAD
- --- EXISTING PAVED ROAD
- --- SOIL TYPE BOUNDARY (SEE TABLE)

DEMOLITION LEGEND

- --- BRUSH CLEARING LINE
- --- LIMITS OF CONSTRUCTION
- --- LIMITS OF CLEARING IN WETLAND (I.E., CUTTING ONLY, NO GRUBBING/STUMP REMOVAL)
- --- TREE STUMP REMOVAL IN WETLAND

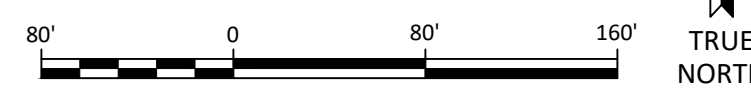
NOTE: WETLAND DELINEATION PERFORMED BY BARTON AND LOGUIDICE, D.P.C. ON DECEMBER 7TH AND DECEMBER 21ST, 2023.

SOIL DATA*

SOIL MAP UNIT SYMBOL	MAP UNIT NAME	ACRES IN LIMITS OF DISTURBANCE	PERCENT OF AREA OF DISTURBANCE	FARMLAND CLASSIFICATION	HYDROLOGIC SOIL GROUP
CaB	CANASERAGA SILT LOAM, 3 TO 8 PERCENT SLOPES	2.29 ACRES	10%	FARMLAND OF STATEWIDE IMPORTANCE	D
UnC	UNADILLA SILT LOAM, 5 TO 15 PERCENT SLOPES	20.31 ACRES	90%	FARMLAND OF STATEWIDE IMPORTANCE	B

*REFERENCE: U.S. DEPARTMENT OF AGRICULTURAL NATURAL RESOURCES CONSERVATION SERVICE (NRCS) SOIL SURVEY GEOGRAPHIC (SSURGO) DATABASE ON WEB SOIL SURVEY.

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REVISIONS

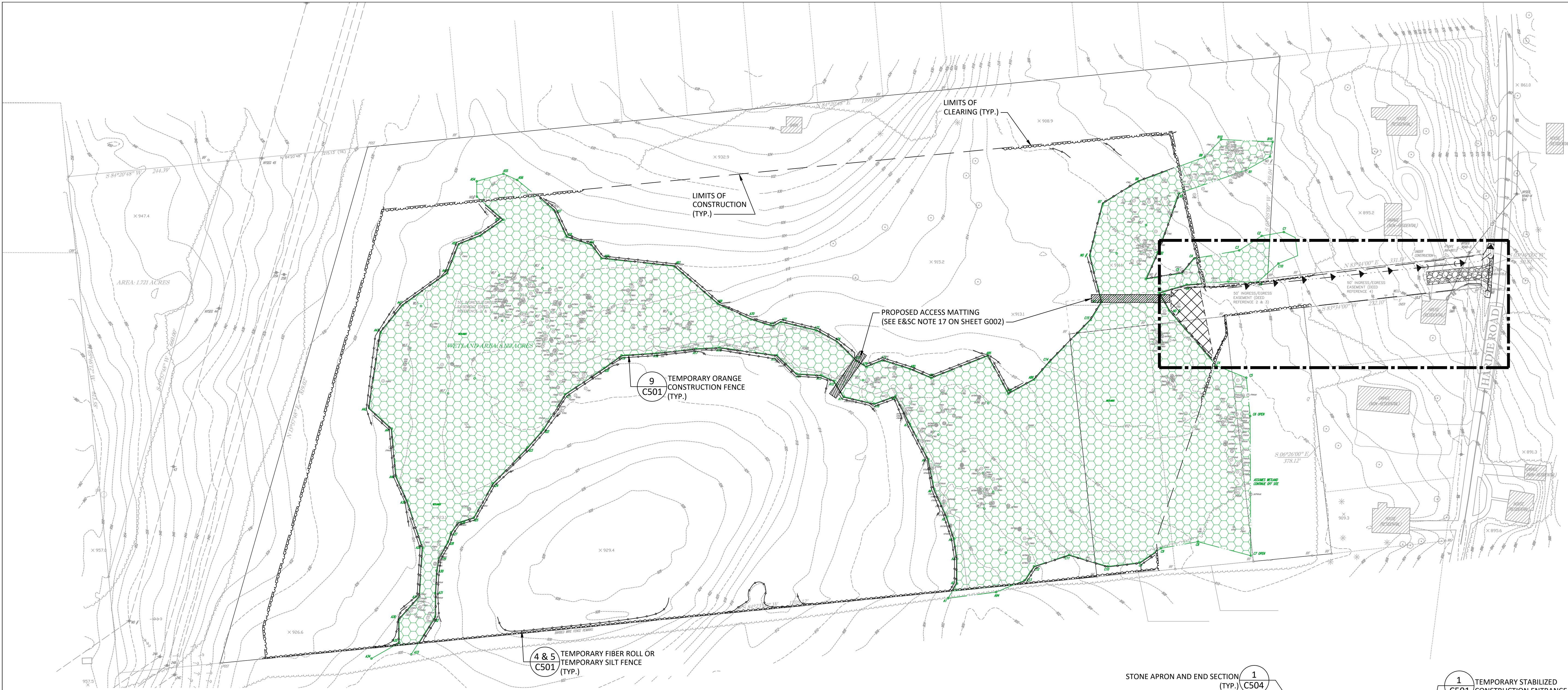
1	PB SUBMISSION
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ABUNDANT SOLAR POWER (USNY-327 HARDIE RD-001) LLC
 HARDIE SOLAR FARM
 TOWN OF CONKLIN
 BROOME COUNTY, NEW YORK

443 Electronics Parkway
 Liverpool, NY
 13088
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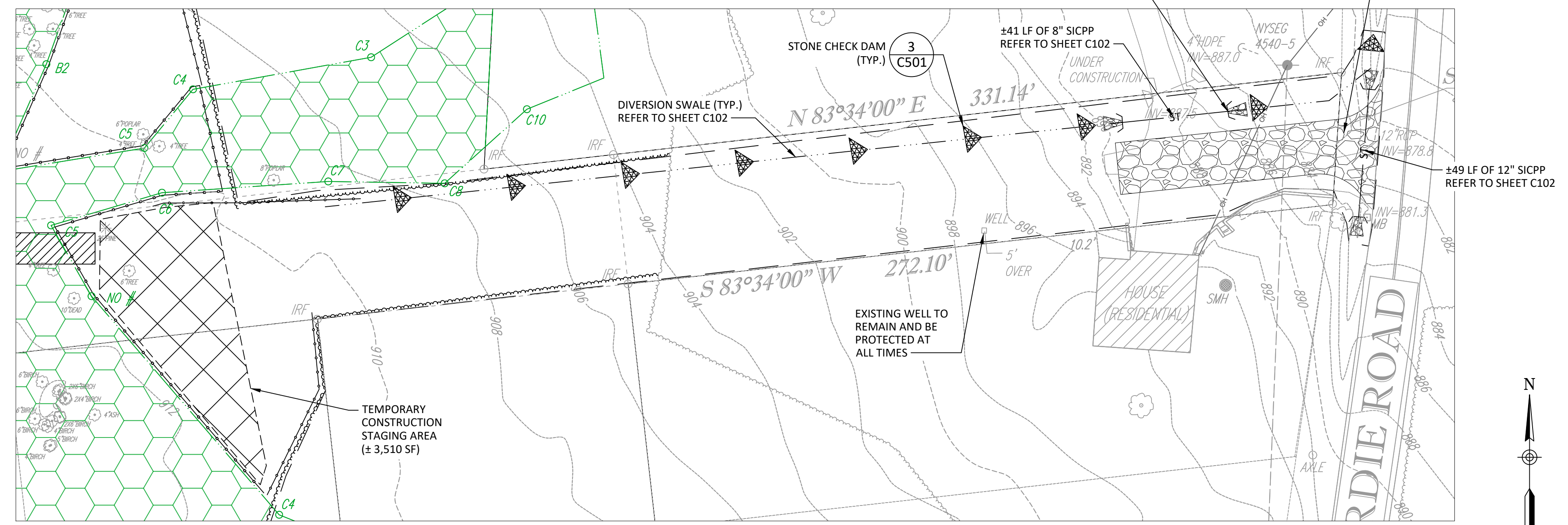


Date: SEPTEMBER 2024
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 Sheet Number: C001
 Project Number: 2271.005.001

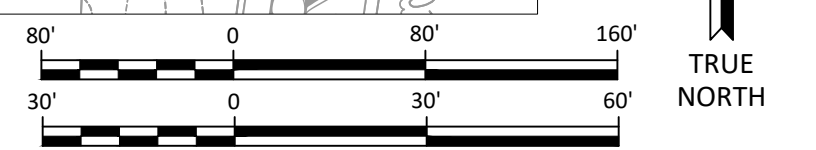


EXISTING CONDITIONS LEGEND	
---410---	MAJOR CONTOURS
---411---	MINOR CONTOURS
-----	PARCEL BOUNDARY
~~~~~	EDGE OF BRUSH
=====	EDGE OF PAVEMENT
OH	EXISTING OVERHEAD UTILITIES
X	BARBED WIRE, CHAIN LINKED FENCE
○	DECIDUOUS TREE
SM	SANITARY MANHOLE
○	UTILITY POLE
+ 87.82	SPOT ELEVATION
○	CAPPED IRON ROD FOUND
○	IRON ROD FOUND
○	IRON PIPE FOUND
○	WETLAND FLAG FOUND
○	WETLAND BOUNDARY FLAG
○	DELINEATED WETLAND BOUNDARY
---	EXISTING UNPAVED ROAD
=====	EXISTING PAVED ROAD

EROSION & SEDIMENT CONTROL LEGEND	
○	SILT FENCE / SILT SOCK
~~~~~	BRUSH CLEARING LINE
-----	DIVERSION SWALE
-----	LIMITS OF CONSTRUCTION
▨	STABILIZED CONSTRUCTION ENTRANCE
▨	PROPOSED ACCESS MATTING (SEE E&SC NOTE 17)
▨	STONE CHECK DAM
ST	STORMWATER CULVERT
▨	RIP RAP OUTFALL PROTECTION
▨	STAGING AREA
○	ORANGE CONSTRUCTION FENCE



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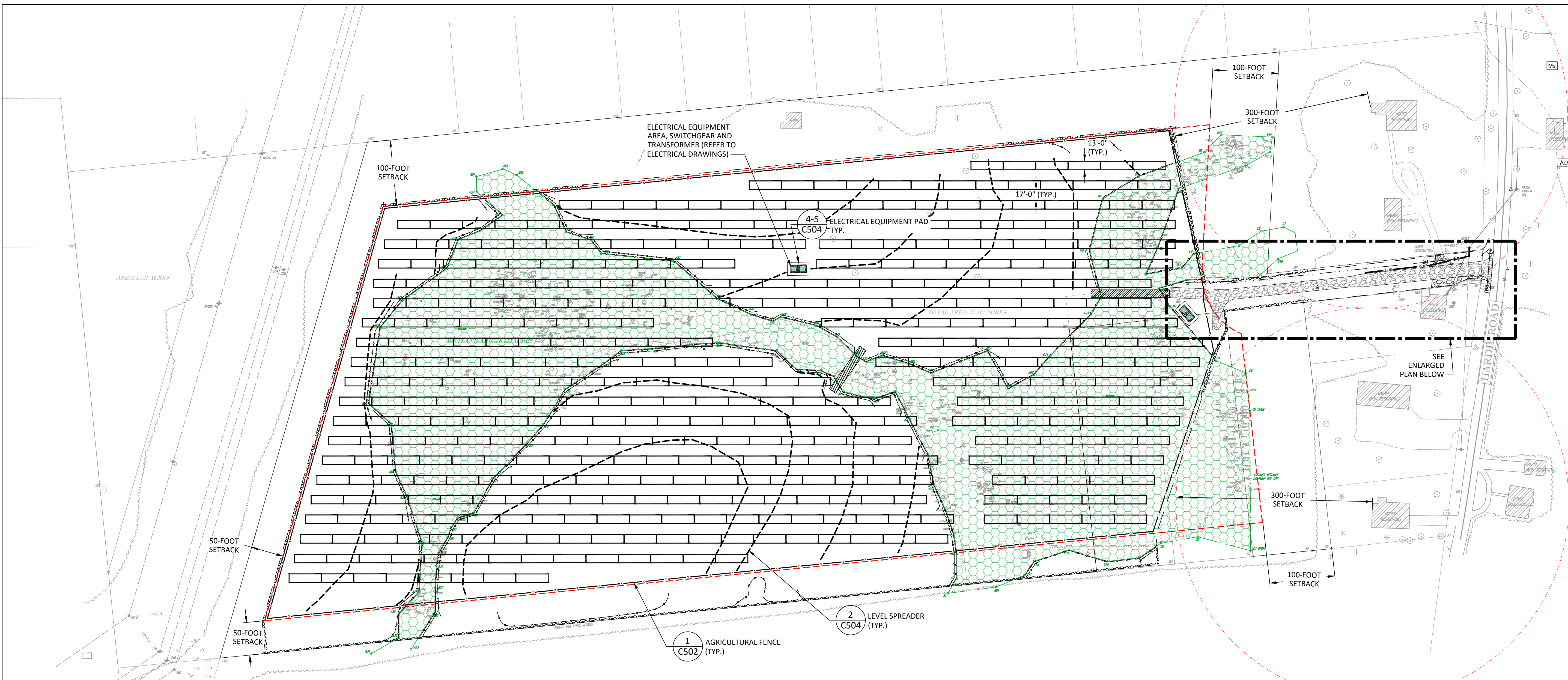
ABUNDANT SOLAR POWER (USNY-327 HARDIE RD-001) LLC
 HARDIE SOLAR FARM
EROSION & SEDIMENT CONTROL PLAN
 TOWN OF CONKLIN
 BROOME COUNTY, NEW YORK

B&L
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Date	SEPTEMBER 2024
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Project Number	2271.005.001

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 Checked by: R.A.M. Drawn by: K.K. In charge of: C.A.W.

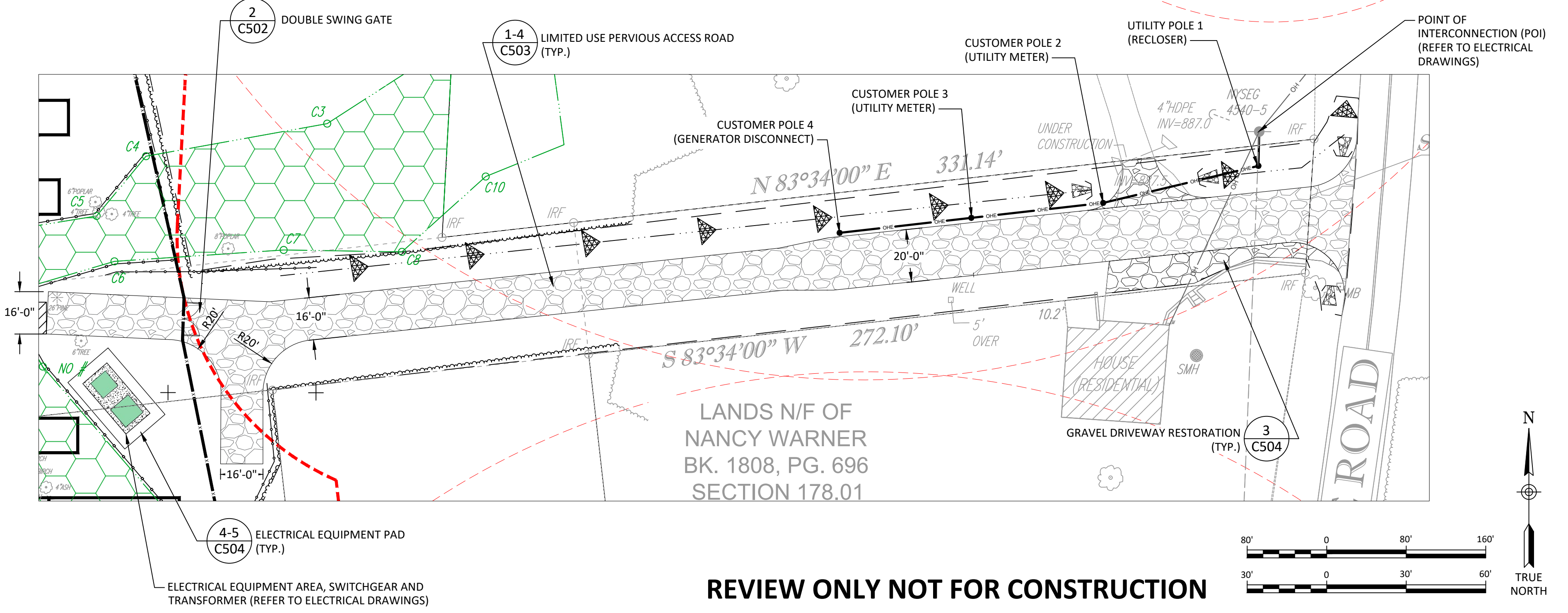


EXISTING CONDITIONS LEGEND

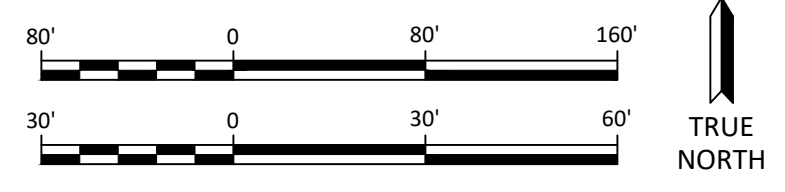
- 410 MAJOR CONTOURS
- 411 MINOR CONTOURS
- PARCEL BOUNDARY
- EDGE OF BRUSH
- EDGE OF PAVEMENT
- EXISTING OVERHEAD UTILITIES
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- UTILITY POLE
- SPOT ELEVATION
- CAPPED IRON ROD FOUND
- IRON ROD FOUND
- IRON PIPE FOUND
- WETLAND FLAG FOUND
- WETLAND BOUNDARY FLAG
- DELINEATED WETLAND BOUNDARY
- EXISTING UNPAVED ROAD
- EXISTING PAVED ROAD
- SETBACK LINE

PROPOSED LEGEND

- PROPERTY LINE
- UTILITY POLE
- OVERHEAD ELECTRIC LINE
- AGRICULTURAL FENCING
- PROPOSED PERVIOUS ACCESS ROAD
- GRAVEL DRIVEWAY RESTORATION
- CONCRETE ELECTRICAL EQUIPMENT PAD
- SOLAR PANEL ARRAY
- SILT FENCE / SILT SOCK (DETAILS 4 & 5/C501)
- BRUSH CLEARING LINE
- DIVERSION SWALE
- LIMITS OF CONSTRUCTION
- PROPOSED ACCESS MATTING (SEE E&S/C NOTE 17)
- STONE CHECK DAM (DETAIL 3/C501)
- STORMWATER CULVERT
- RIP RAP OUTFALL PROTECTION (DETAIL 1/C504)
- LEVEL SPREADERS
- ORANGE CONSTRUCTION FENCE (DETAIL 9/C501)



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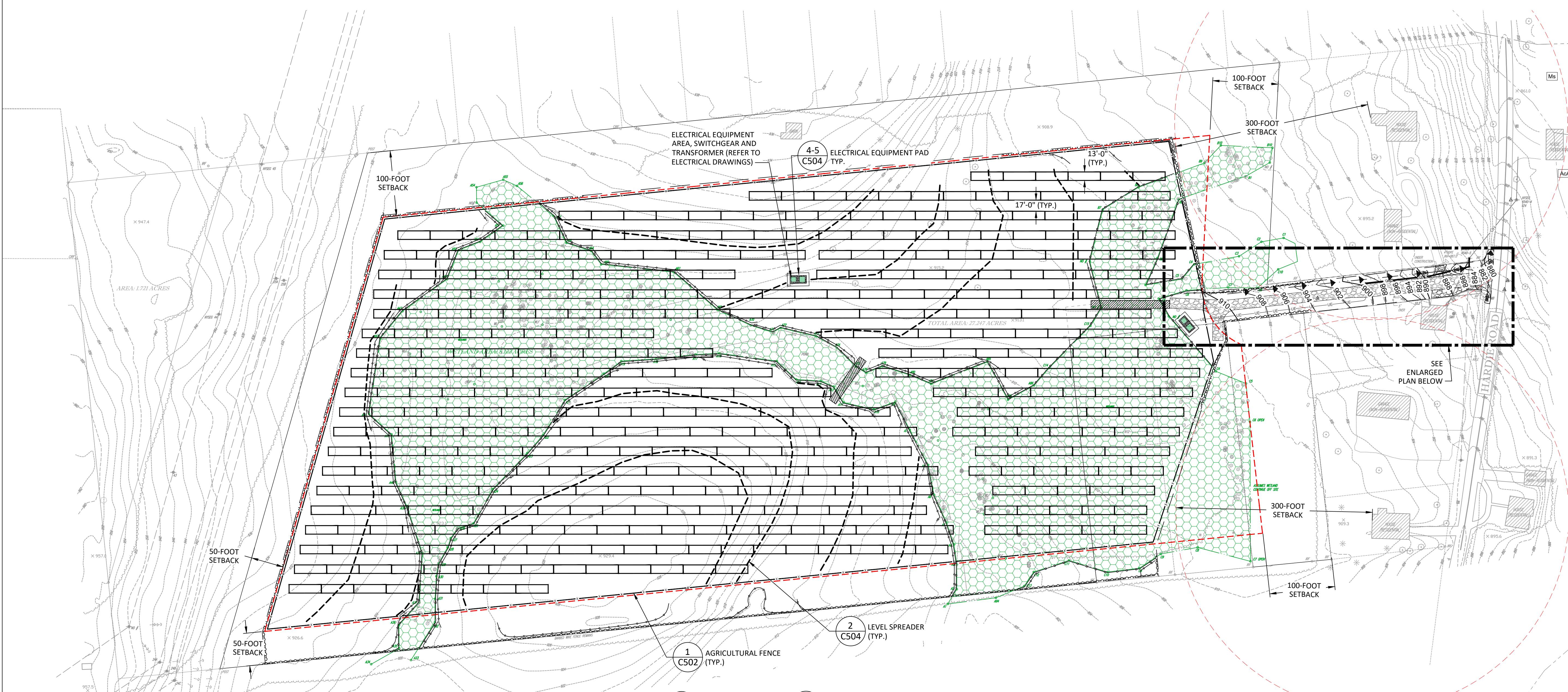
ABUNDANT SOLAR POWER (USNY-327 HARDIE RD-001) LLC
 HARDIE SOLAR FARM
 CIVIL SITE PLAN
 BROOME COUNTY, NEW YORK
 TOWN OF CONKLIN

B&L
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Date	SEPTEMBER 2024
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Project Number	2271.005.001

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Checked by: R.A.M. Drawn by: K.K.J. Designed by: K.K.J. In charge of: C.A.W.

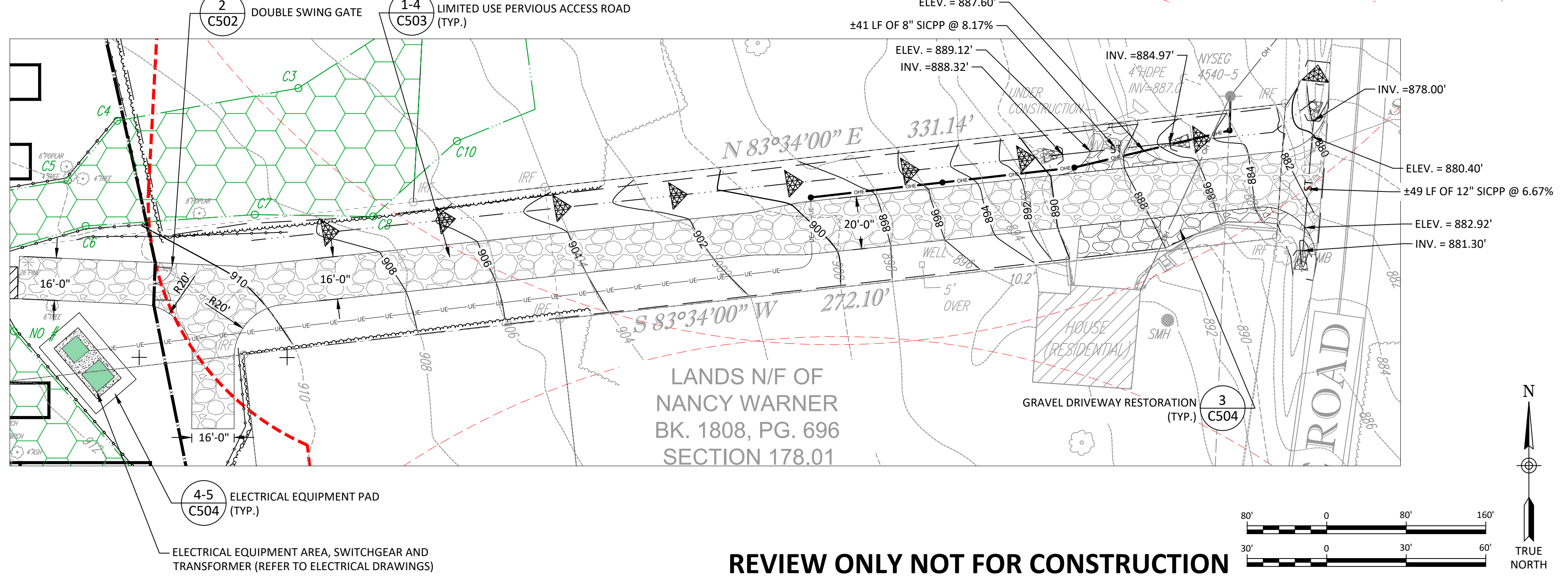


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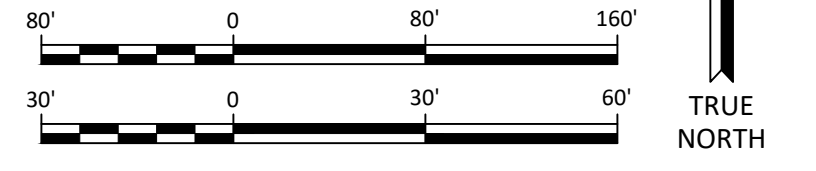
- 410 --- MAJOR CONTOURS
- 411 --- MINOR CONTOURS
- PARCEL BOUNDARY
- EDGE OF BRUSH
- EDGE OF PAVEMENT
- OH --- EXISTING OVERHEAD UTILITIES
- X --- BARBED WIRE, CHAIN LINKED FENCE
- DECIDUOUS TREE
- SANITARY MANHOLE
- UTILITY POLE
- + 327.2 SPOT ELEVATION
- CAPPED IRON ROD FOUND
- IRON ROD FOUND
- IRON PIPE FOUND
- WETLAND FLAG FOUND
- WETLAND BOUNDARY FLAG
- A-B-D --- DELINEATED WETLAND BOUNDARY
- EXISTING UNPAVED ROAD
- EXISTING PAVED ROAD

PROPOSED LEGEND

- 450 --- PROPERTY LINE
- 451 --- MAJOR CONTOURS
- 451 --- MINOR CONTOURS
- UTILITY POLE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE
- AGRICULTURAL FENCING (DETAIL 1/C502)
- LIMITED US PERVIOUS ACCESS ROAD (DETAILS 1-4/C503)
- GRAVEL DRIVEWAY RESTORATION (DETAIL 4/C504)
- CONCRETE ELECTRICAL EQUIPMENT PAD
- SOLAR PANEL ARRAY
- SILT FENCE / SILT SOCK (DETAILS 4 & 5/C501)
- BRUSH CLEARING LINE
- DIVERSION SWALE
- LIMITS OF CONSTRUCTION
- PROPOSED ACCESS MATTING (SEE E&S NOTE 17)
- STONE CHECK DAM (DETAIL 3/C501)
- ST --- STORMWATER CULVERT
- RIP RAP OUTFALL PROTECTION (DETAIL 1/C504)
- LEVEL SPREADERS (DETAIL 2/C504)
- ORANGE CONSTRUCTION FENCE (DETAIL 9/C501)



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ABUNDANT SOLAR POWER (USNY-327 HARDIE RD-001) LLC
HARDIE SOLAR FARM

CIVIL GRADING AND DRAINAGE PLAN

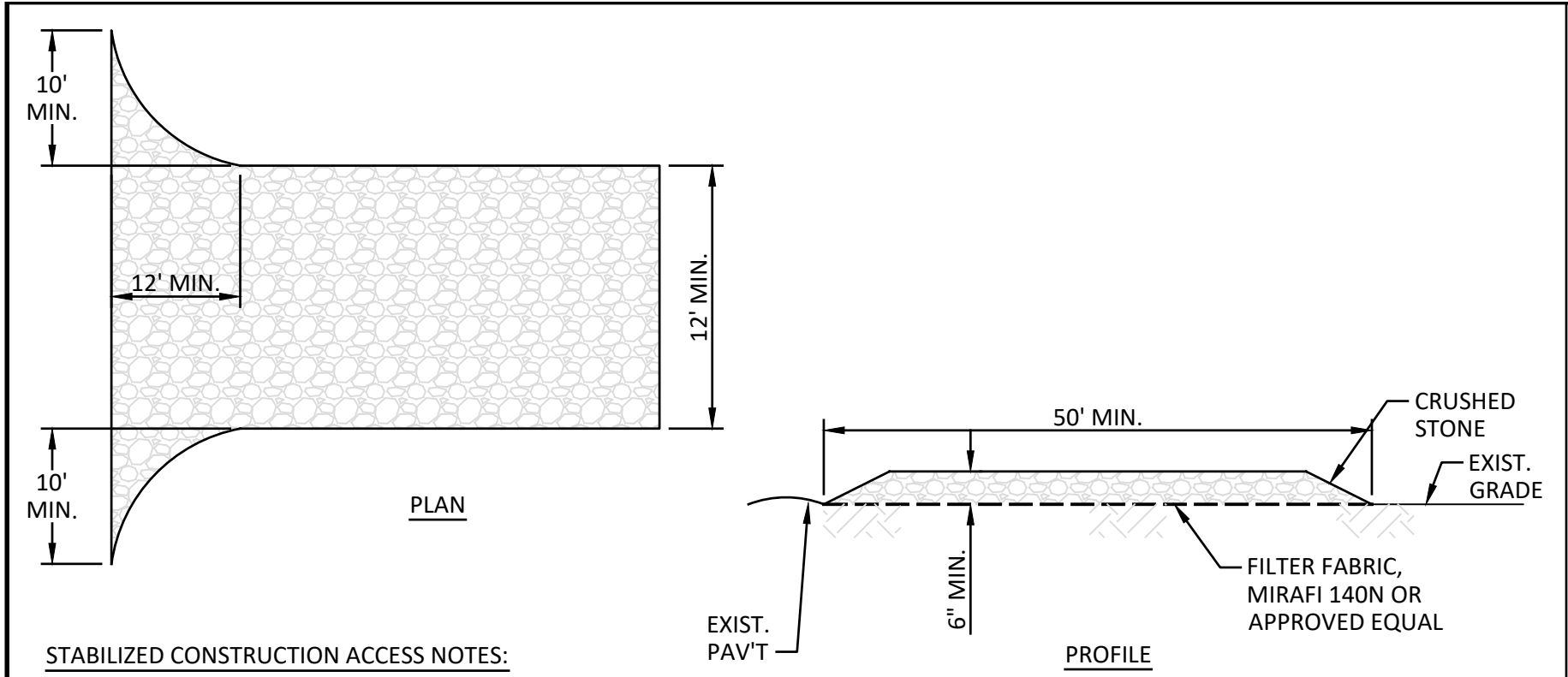
TOWN OF CONKLIN
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443 Electronics Parkway
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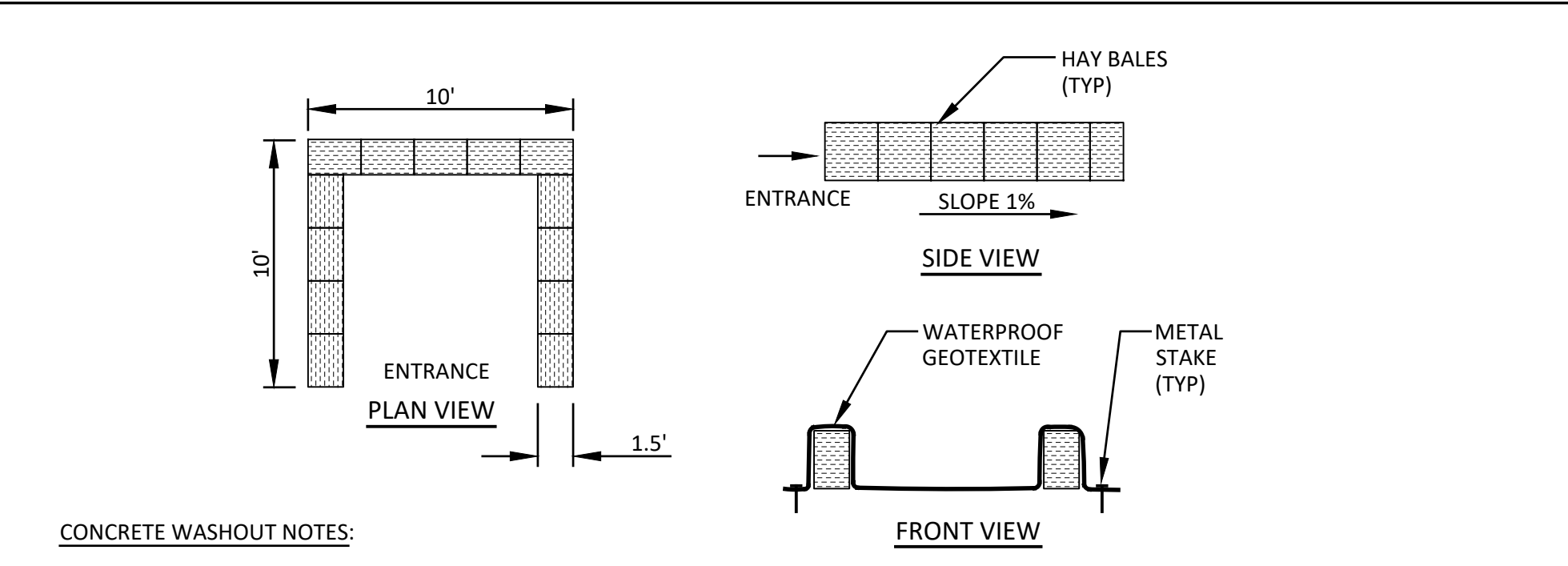


Date	SEPTEMBER 2024
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Sheet Number	C102
Project Number	2271.005.001



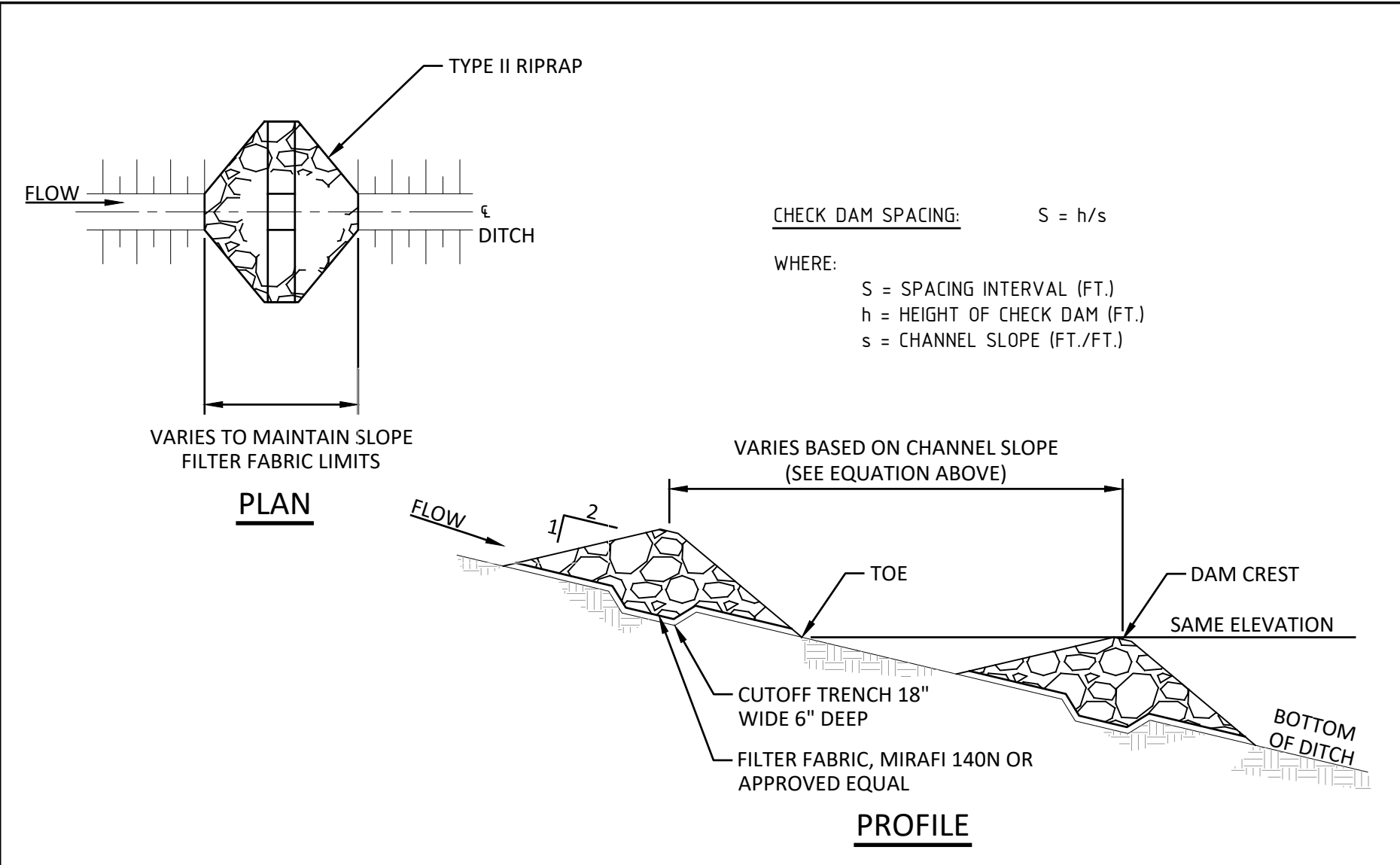
- STABILIZED CONSTRUCTION ACCESS NOTES:**
- MODIFICATIONS MAY BE REQUIRED TO MEET FIELD CONDITIONS.
 - ALL WORK TO CONSTRUCT THE STABILIZED ENTRANCE, INCLUDING GRADING, EXCAVATION, FILL, GEOTEXTILE, CRUSHED STONE, GRAVEL, CORRUGATED STEEL PANELS, ETC., SHALL BE INCLUDED IN THE LUMP SUM BID ITEM.
 - GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA OF STABILIZED CONSTRUCTION ENTRANCE PRIOR TO PLACING STONE. STONE SHALL MEET THE REQUIREMENTS OF NYS DOT ITEM 623.12, CRUSHED NO. 3 STONE.
 - ALL SURFACE WATER SHALL BE DIVERTED AWAY FROM CONSTRUCTION ENTRANCE. A MOUNTABLE BERM WITH 5:1 SLOPE IS PERMITTED.
 - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH STONE AND WHICH DRAINS ONTO AN APPROVED SEDIMENT TRAPPING DEVICE (OR CORRUGATED STEEL PANELS).
 - PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE DONE REGULARLY AND FOLLOWING EACH RAINFALL.

1 TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
C501 NOT TO SCALE

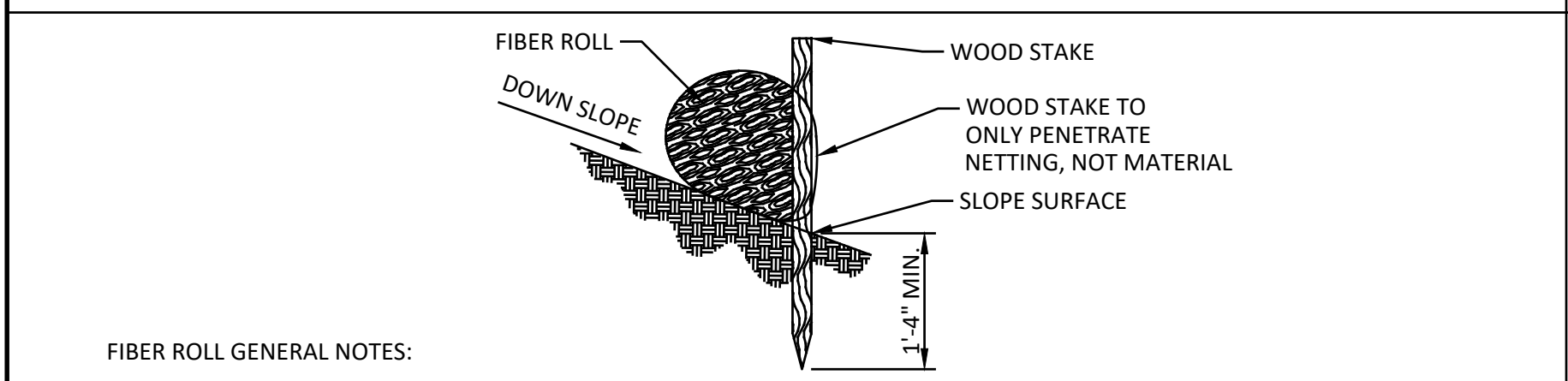


- CONCRETE WASHOUT NOTES:**
- GEOTEXTILE SHALL BE INSPECTED DAILY TO ENSURE THAT IT REMAINS WATERPROOF.
 - GEOTEXTILE SHALL BE SECURED TO GROUND WITH METAL STAKES OUTSIDE OF HAY BALES.
 - CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.
- SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.
- SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF THE CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD.
 - WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECK FOR LEAKS, TEARS, OR OVERFLOWS. (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT) WASHOUT AREA(S) SHOULD BE CHECKED AFTER HEAVY RAINS.
 - HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S HEIGHT. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY THE ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.

2 CONCRETE WASHOUT AREA
C-501 NOT TO SCALE

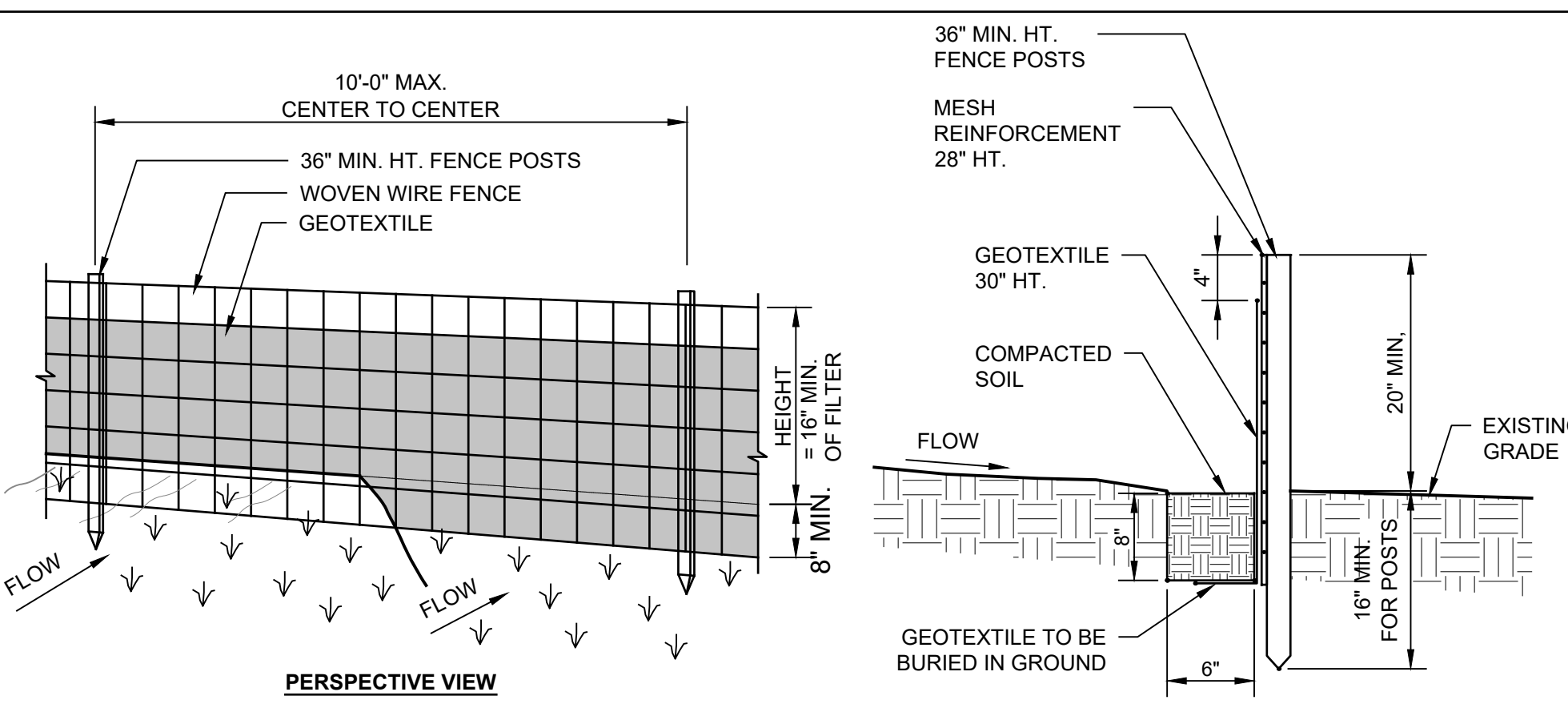


3 STONE CHECK DAMS
C501 NOT TO SCALE



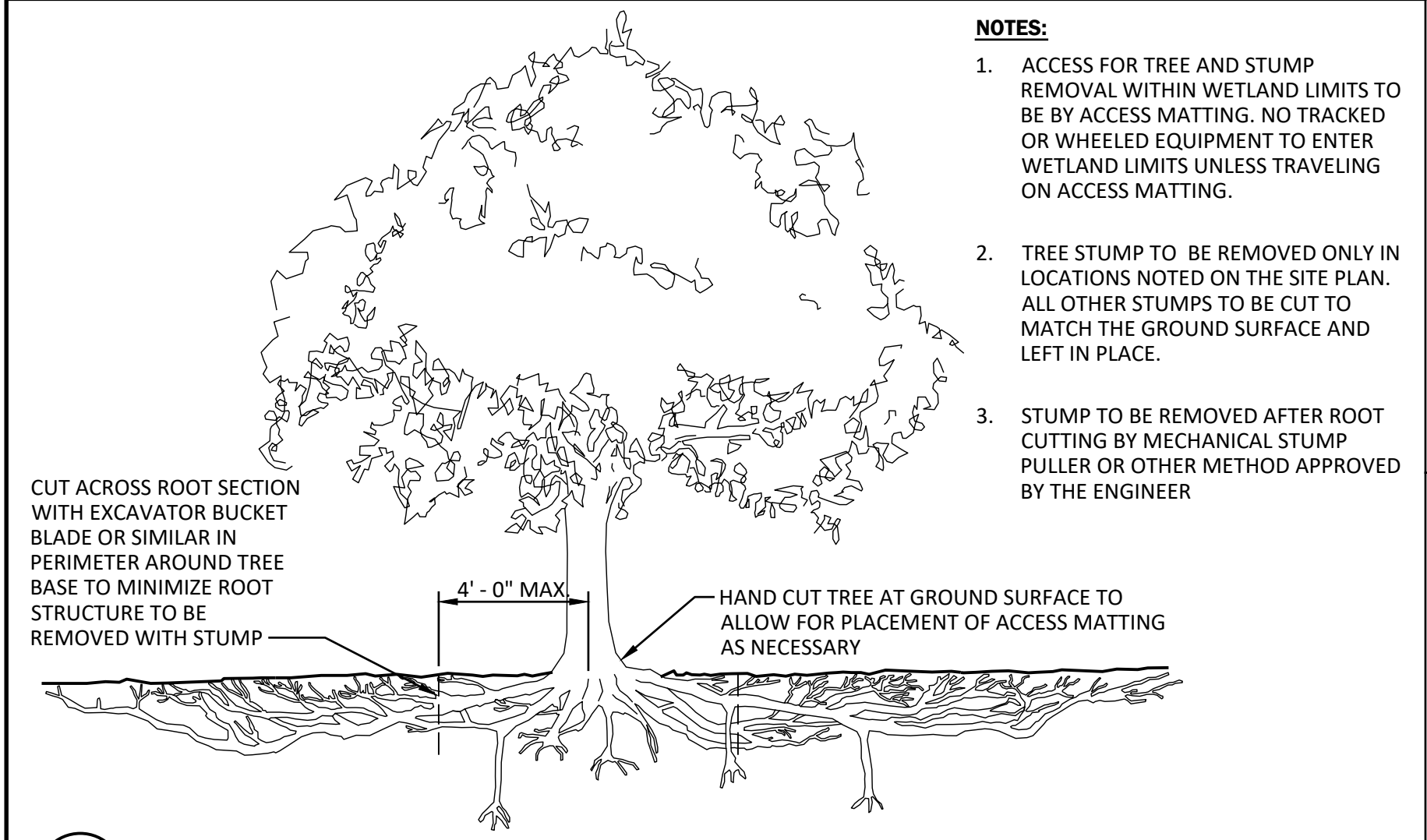
- FIBER ROLL GENERAL NOTES:**
- FIBER ROLL DIKE SHALL BE PLACED A MINIMUM OF 2 FEET FROM TOE OF SLOPE, (5 FEET PREFERRED), TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND TO FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
 - POSTS MAY BE 1.5" X 1.5" (MINIMUM) HARDWOOD, 1.5" X 3.5" (MINIMUM) SOFTWOOD, OR 2kg/m (MIN) STEEL. SPACING SHALL BE 36" (MAXIMUM) BETWEEN STAKES.
 - FIBER ROLLS SHALL BE INSTALLED PARALLEL TO THE CONTOUR. FIBER ROLLS ARE NOT TO BE INSTALLED SO THAT RUNOFF WILL FLOW ALONG THE FIBER ROLL IN A CONCENTRATED MANNER.
 - FIBER ROLLS SHALL NOT BE USED IN OR ACROSS A FLOWING NATURAL CHANNEL.
 - SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE MEASURE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
 - AS PART OF FINAL STABILIZATION, WOODEN STAKES TO BE REMOVED AND FIBER LOG NETTING CUT OPEN ALONG ENTIRE LENGTH.

4 TEMPORARY FIBER ROLL
C501 NOT TO SCALE

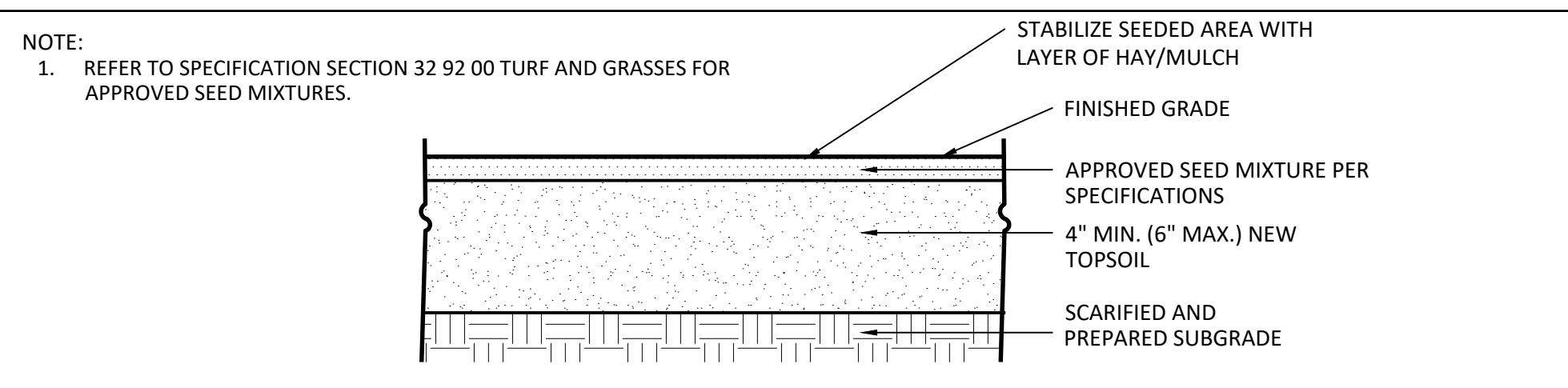


- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL/DEBRIS REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.
 - POSTS: STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD. DRIVEN MIN. 16" INTO GROUND.
 - FENCE: WOVEN WIRE 1 1/2 GA. 6" MAX. MESH OPENING.
 - SILT FENCE FILTER FABRIC: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.
 - PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

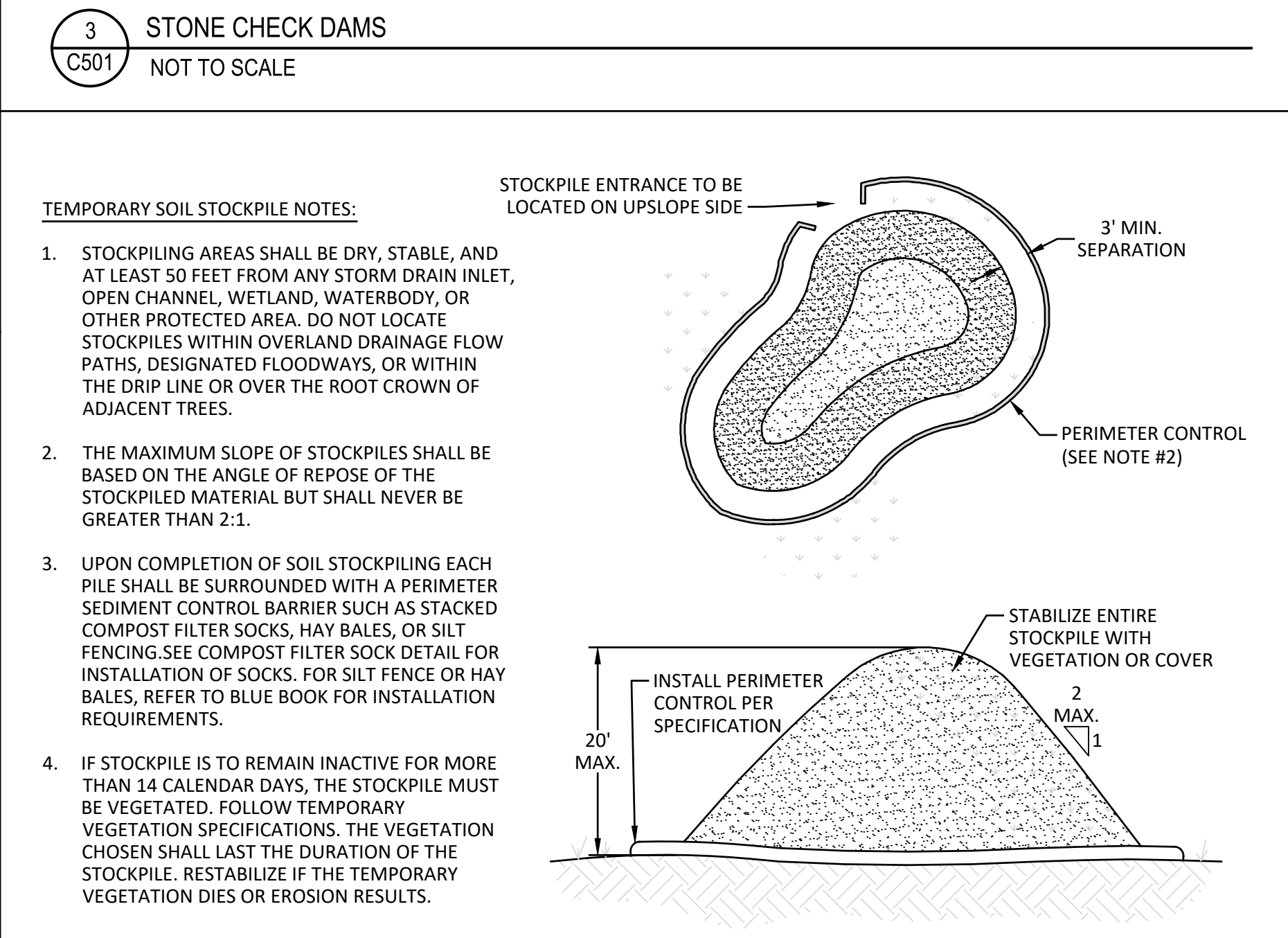
5 TEMPORARY SILT FENCE
C501 NOT TO SCALE



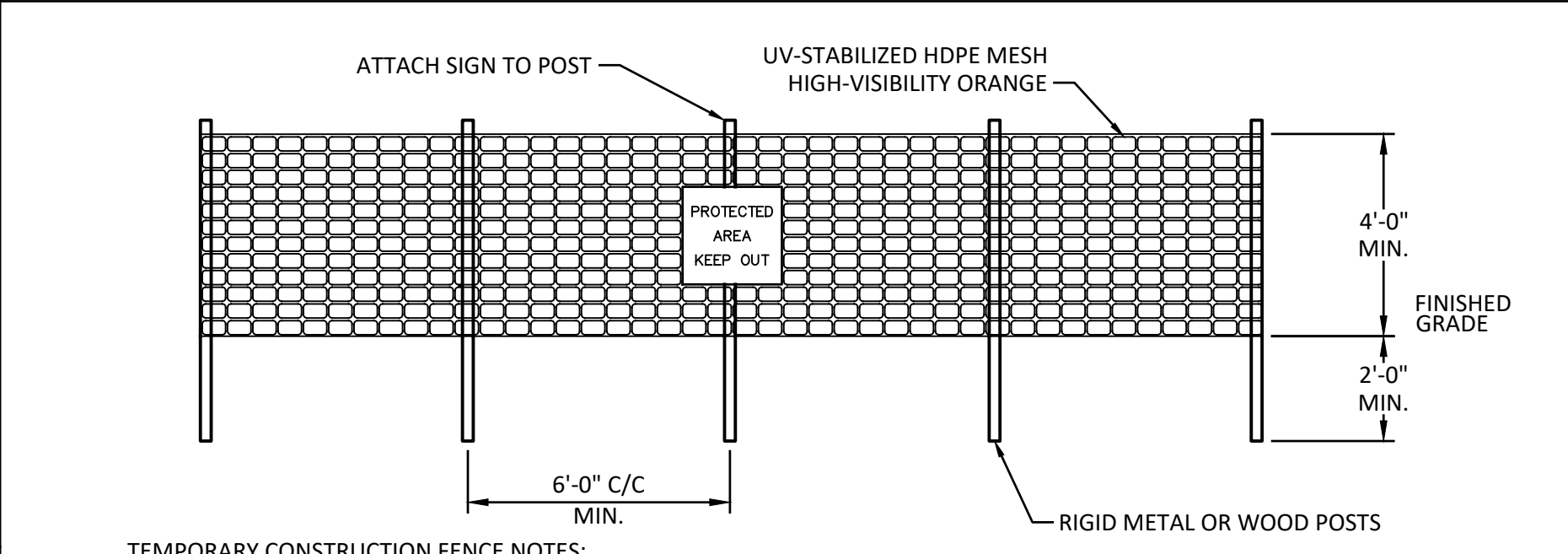
7 TREE REMOVAL IN WETLAND AREAS - LIMITED STUMP REMOVAL LOCATIONS
C501 NOT TO SCALE



8 SEED MIX ESTABLISHMENT
C501 NOT TO SCALE



6 TEMPORARY SOIL STOCKPILING
C501 NOT TO SCALE



- TEMPORARY CONSTRUCTION FENCE NOTES:**
- TEMPORARY CONSTRUCTION FENCE IS INTENDED TO PROTECT SENSITIVE SITE FEATURES. INSTALL FENCE AT THE LOCATIONS SHOWN ON PLANS OR WHERE DIRECTED BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - SPACE WARNING SIGNS FOR SITE FEATURES TO BE PROTECTED AT A MINIMUM OF ONE EVERY 300 FEET. THE SIZE OF EACH SIGN MUST BE A MINIMUM OF 1.5' X 2' WITH 4" BLACK LETTERS ON A WHITE BACKGROUND. THE SIGN MUST CONTAIN THE FOLLOWING LANGUAGE:

"PROTECTED AREA - KEEP OUT"
 - THERE SHALL BE NO STORAGE OF MATERIAL WITHIN THE BOUNDARIES OF THE PROTECTED AREA FENCING.
 - TEMPORARY PROTECTION AREA FENCING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
 - ALL MATERIALS REQUIRED TO FURNISH AND INSTALL THE FENCING AND WARNING SIGNS AS DETAILED ON THE PLANS AND AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE.

9 ORANGE CONSTRUCTION FENCE (PROTECTION BARRIER)
C501 NOT TO SCALE

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 By: kikibing
 Designed by: KIK
 Drawn by: R-AMJ
 Checked by: KAW
 In charge of: KAW
 TOWN OF CONKLIN

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1	PB SUBMISSION

BROOME COUNTY, NEW YORK
 ABUNDANT SOLAR POWER (USNY-327 HARDIE RD-001) LLC
 HARDIE SOLAR FARM

SITE DETAILS 1

B&L
 443 Electronics Parkway
 Liverpool, NY
 13088
Barton & Loguidice, D.P.C.



Date	SEPTEMBER 2024
Scale	AS SHOWN
Sheet Number	C501
Project Number	2271.005.001

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 § 7209 SPECIAL PROVISIONS, FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER ANY ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING PROFESSIONAL SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS	
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ABUNDANT SOLAR POWER (USNY-327 HARDIE RD-001) LLC
HARDIE SOLAR FARM
BROOME COUNTY, NEW YORK

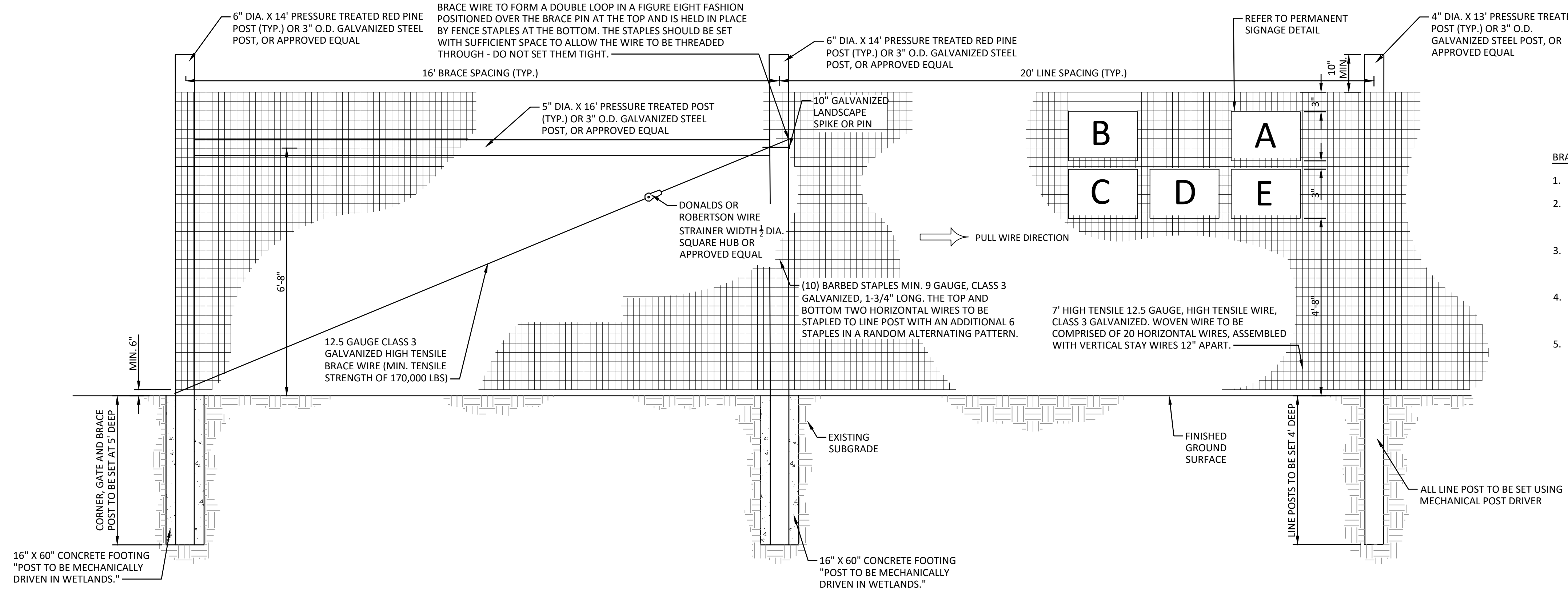
TOWN OF CONKLIN

443 Electronics Parkway
Liverpool, NY 13088
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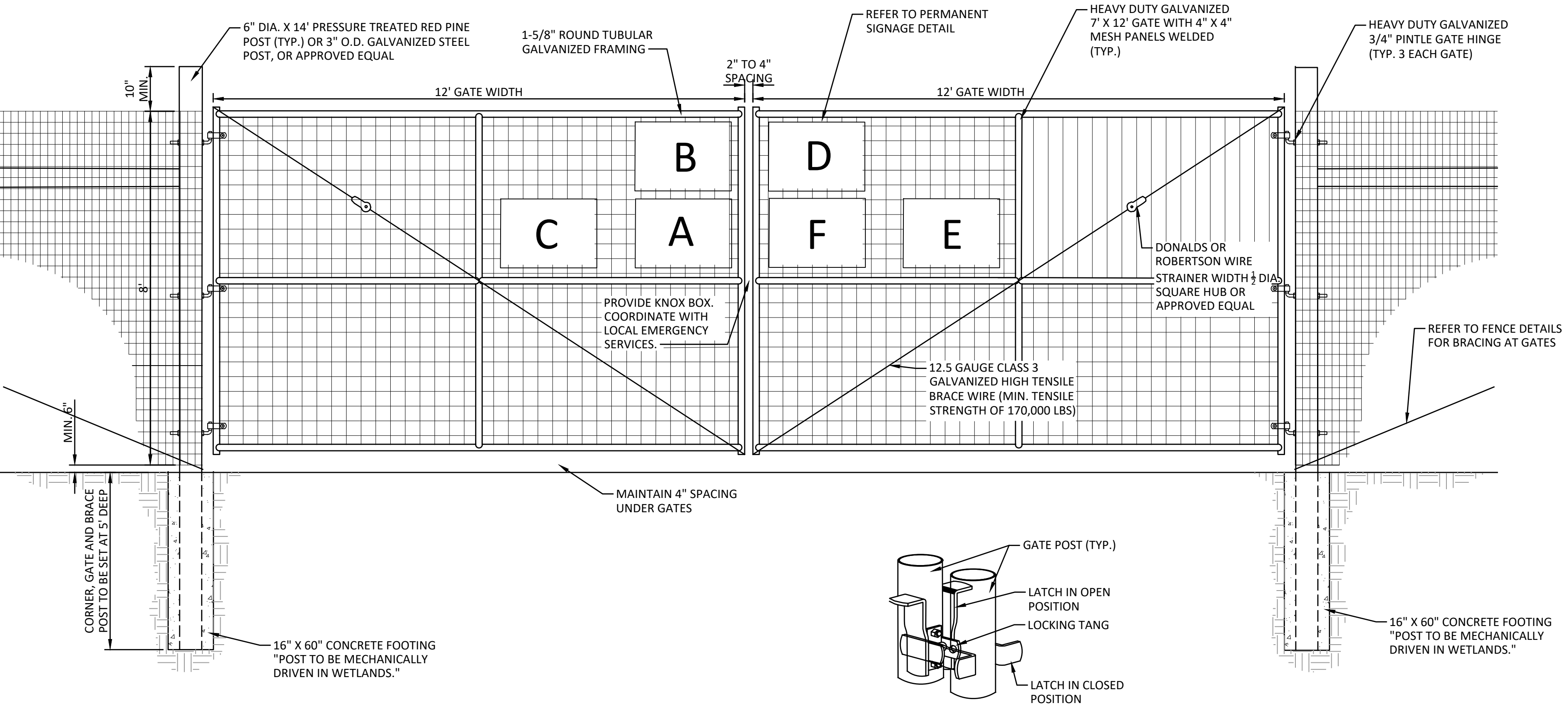
Date	SEPTEMBER 2024
Scale	AS SHOWN
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Project Number	2271.005.001

2271.005.001



- BRACING NOTES:**
- BRACING IS REQUIRED AT ALL CORNER, END, GATE, AND PULL ASSEMBLIES IN THE FENCE.
 - CORNERS ARE REQUIRED AT ALL POINTS WHERE THE FENCE ALIGNMENT CHANGES 15 DEGREES OR MORE. THREE 6" X 16" VERTICAL POSTS AND TWO 5" X 16" HORIZONTAL BRACES ARE REQUIRED FOR EACH CORNER.
 - END BRACING IS REQUIRED WHERE THE FENCE ENDS AT A BUILDING OR ON EACH SIDE OF A GATE OPENING. TWO 6" X 16" VERTICAL POSTS AND ONE 5" X 16" HORIZONTAL BRACE ARE REQUIRED FOR EACH END BRACE.
 - PULL ASSEMBLIES ARE REQUIRED IN STRAIGHT SECTIONS OF FENCE SO THAT THE MAXIMUM DISTANCE BETWEEN CORNERS DOES NOT EXCEED 1,320 FEET. TWO 6" X 16" VERTICAL POSTS AND ONE 5" X 16" BRACE ARE REQUIRED.
 - DOUBLE BRACES SHOULD BE USED ON EACH END FOR STRAIGHT FENCE LINES EXCEEDING 1,000 FEET. DOUBLE END BRACES REQUIRE THREE 6" X 16" POSTS AND TWO 5" X 16" HORIZONTAL BRACES.

1 7' AGRICULTURAL FENCE
C502 NOT TO SCALE



2 7' TALL 24' WIDE DOUBLE SWING GATE
C502 NOT TO SCALE

A -		- B
C -		- D
E -		- F

- NOTES:**
- ALL SIGNS TO BE 18" X 24" IN SIZE.
 - SIGNS SHALL BE UV RESISTANT AND IN COLOR. SIGN MATERIAL SHALL BE HDPE OR LIGHT GAUGE GALVANIZED STEEL.
 - SIGNS TO BE ATTACHED TO FENCING WITH PERMANENT FASTENERS.
 - SIGNS SHALL BE INSTALLED IN GROUPS EVERY 300'.
 - FINAL SIGN GRAPHICS SHALL BE REVIEWED AND APPROVED BY THE OWNER.

3 PERMANENT SIGNAGE
C502 NOT TO SCALE

REVIEW ONLY NOT FOR CONSTRUCTION

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Checked by: R.A.M. Drawn by: K.I.K. In charge of: C.A.W.

GENERAL NOTES:

- USE OF THIS DETAIL/CRITERION IS LIMITED TO ACCESS ROADS USED ON AN OCCASIONAL BASIS ONLY (I.E., PROVIDE ACCESS FOR MOWING, EQUIPMENT REPAIR OR MAINTENANCE, ETC.).
- LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO LOW IMPACT IRREGULAR MAINTENANCE ACCESS ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.
- REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY. FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
- REMOVED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT ENGINEER. COMPACT TO THE DEGREE OF THE NATIVE INSITU SOIL. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
- GRADE ROADWAY, WHERE NECESSARY, TO NATIVE SOIL AND DESIRED ELEVATION. MINOR GRADING FOR CROSS SLOPE CUT AND FILL MAY BE REQUIRED.
- REMOVE REFUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
- ROADWAY WIDTH PER THE SITE PLANS (SEE SHEETS C101 AND C102).
- THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL BE 2% IN MOST CASES AND SHALL NOT EXCEED 6%. THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHOULD NOT EXCEED 15%.
- LIMITED USE PERVIOUS ACCESS ROAD IS NOT INTENDED TO BE UTILIZED FOR CONSTRUCTION WHICH MAY SUBJECT THE ACCESS TO SEDIMENT TRACKING. THIS SPECIFICATION IS TO BE DEVELOPED FOR POST-CONSTRUCTION USE. SOIL RESTORATION PRACTICES MAY BE APPLICABLE TO RESTORE CONSTRUCTION RELATED COMPACTION TO PRE-EXISTING CONDITIONS AND SHOULD BE VERIFIED BY SOIL PENETROMETER READINGS. THE PENETROMETER READINGS SHALL BE COMPARED TO THE RESPECTIVE RECORDED READINGS TAKEN PRIOR TO CONSTRUCTION, EVERY 100 LINEAR FEET ALONG THE PROPOSED ROADWAY.
- TO ENSURE THAT SOIL IS NOT TRACKED ONTO THE LIMITED USE PERVIOUS ACCESS ROAD, IT SHALL NOT BE USED BY CONSTRUCTION VEHICLES TRANSPORTING SOIL, FILL MATERIAL, ETC. IF THE LIMITED USE PERVIOUS ACCESS IS COMPLETED DURING THE INITIAL PHASES OF CONSTRUCTION, A STANDARD NEW YORK STATE STABILIZED CONSTRUCTION ACCESS SHALL BE CONSTRUCTED AND UTILIZED TO REMOVE SEDIMENT FROM CONSTRUCTION VEHICLES AND EQUIPMENT PRIOR TO ENTERING THE LIMITED USE PERVIOUS ACCESS ROAD FROM ANY LOCATION ON, OR OFF SITE. MAINTENANCE OF THE PERVIOUS ACCESS ROAD WILL BE REQUIRED IF SEDIMENT IS OBSERVED WITHIN THE CLEAN STONE.
- THE LIMITED USE PERVIOUS ACCESS ROAD SHALL NOT BE CONSTRUCTED OR USED UNTIL ALL AREAS SUBJECT TO RUNOFF ONTO THE PERVIOUS ACCESS HAVE ACHIEVED FINAL STABILIZATION.
- PROJECT SHOULD AVOID INSTALLATION OF THE LIMITED USE PERVIOUS ACCESS ROAD IN POORLY DRAINED AREAS, HOWEVER IF NO ALTERNATIVE LOCATION IS AVAILABLE, THE PROJECT SHALL UTILIZE WOVEN GEOTEXTILE MATERIAL AS DETAILED IN THE FOLLOWING NOTES.
- THE DRAINAGE DITCH IS OFFERED IN THE DETAIL FOR CIRCUMSTANCES WHEN CONCENTRATED FLOW COULD NOT BE AVOIDED. THE INTENTION OF THIS DESIGN IS TO MINIMIZE ALTERATIONS TO HYDROLOGY, HOWEVER WHEN DEALING WITH 5%-15% GRADES NOT PARALLEL TO THE CONTOUR, A ROADSIDE DITCH MAY BE REQUIRED. THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR GRASSED WATERWAYS AND VEGETATED WATERWAYS ARE APPLICABLE FOR SIZING AND STABILIZATION. DIMENSIONS FOR THE GRASSED WATERWAY SPECIFICATION WOULD BE DESIGNED FOR PROJECT SPECIFIC HYDROLOGIC RUNOFF CALCULATIONS, AND A SEPARATE DETAIL FOR THE SPECIFIC GRASSED WATERWAY WOULD BE INCLUDED IN THIS PRACTICE. RUNOFF DISCHARGES WILL BE SUBJECT TO THE OUTLET REQUIREMENTS OF THE REFERENCED STANDARDS. INCREASED POST-DEVELOPMENT RUNOFF FROM THE ASSOCIATED ROADSIDE DITCH MAY REQUIRE ADDITIONAL PRACTICES TO ATTENUATE RUNOFF TO PRE-DEVELOPMENT CONDITIONS.
- IF A ROADSIDE DITCH IS NOT UTILIZED TO CAPTURE RUNOFF FROM THE ACCESS ROAD, THE PERVIOUS ACCESS ROAD WILL HAVE A WELL-ESTABLISHED PERENNIAL VEGETATIVE COVER, WHICH SHALL CONSIST OF UNIFORM VEGETATION (I.E., BUFFER), 20 FEET WIDE AND PARALLEL TO THE DOWN GRADIENT SIDE OF THE ACCESS ROAD. POST-CONSTRUCTION OPERATION AND MAINTENANCE PRACTICES WILL MAINTAIN THE VEGETATIVE COVER TO ENSURE FINAL STABILIZATION FOR THE LIFE OF THE ACCESS ROAD.
- THE DESIGN PROFESSIONAL MUST ACCOUNT FOR THE LIMITED USE PERVIOUS ACCESS ROAD IN THEIR ASSESSMENT/HYDROLOGY ANALYSIS. IF THE HYDROLOGY ANALYSIS SHOWS THAT THE HYDROLOGY HAS BEEN ALTERED FROM PRE- TO POST-DEVELOPMENT CONDITIONS, THE DESIGN MUST INCLUDE THE NECESSARY DETENTION/RETENTION PRACTICES TO ATTENUATE THE RATES TO PRE-DEVELOPMENT CONDITIONS.

GEOGRID MATERIAL NOTES:

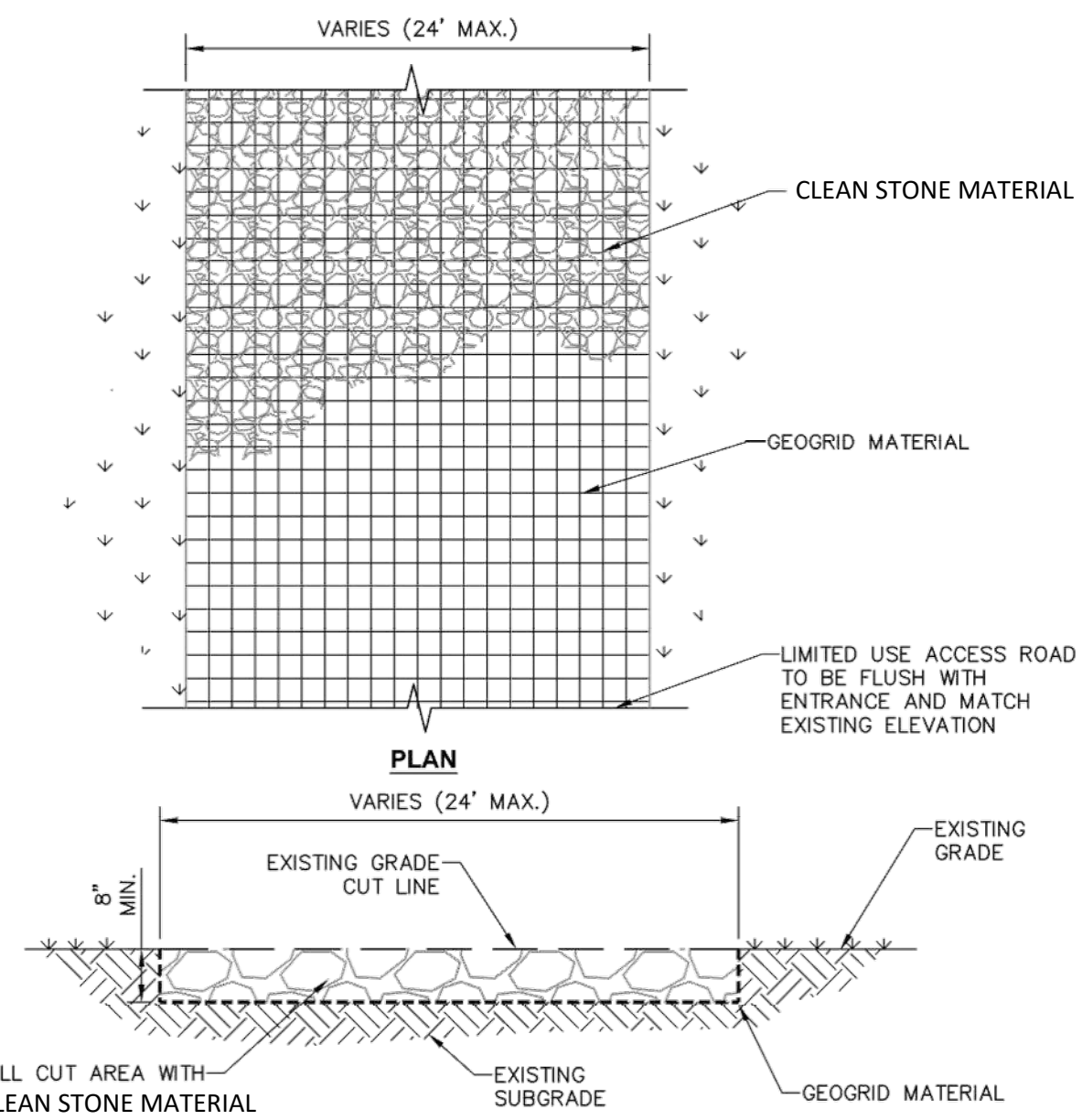
- THE GEOGRID, OR COMPARABLE PRODUCT, IS INTENDED FOR USE FOR ALL CONDITIONS, IN ORDER TO ASSIST IN MATERIAL SEPARATION FROM NATIVE SOILS AND PRESERVE ACCESS LOADS.
- CLEAN STONE MATERIAL SHALL CONSIST OF 1-4" CLEAN, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYS DOT ITEM 703-02, SIZE DESIGNATION 3-5 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. CLEAN STONE SHALL NOT BE COMPACTED.
- GEOGRID SHALL BE MIRAFI BXG110 OR APPROVED EQUAL. GEOGRID SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED ROAD SLOPES.
- IF MORE THAN ONE ROLL WIDTH IS REQUIRED, ROLLS SHOULD OVERLAP A MINIMUM OF SIX INCHES.
- REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER TYING AND CONNECTIONS.
- LIMITED USE PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH ONLY 1-4" CRUSHED STONE MEETING NYS DOT ITEM 703-2 SPECIFICATIONS.

GEOWEB MATERIAL NOTES:

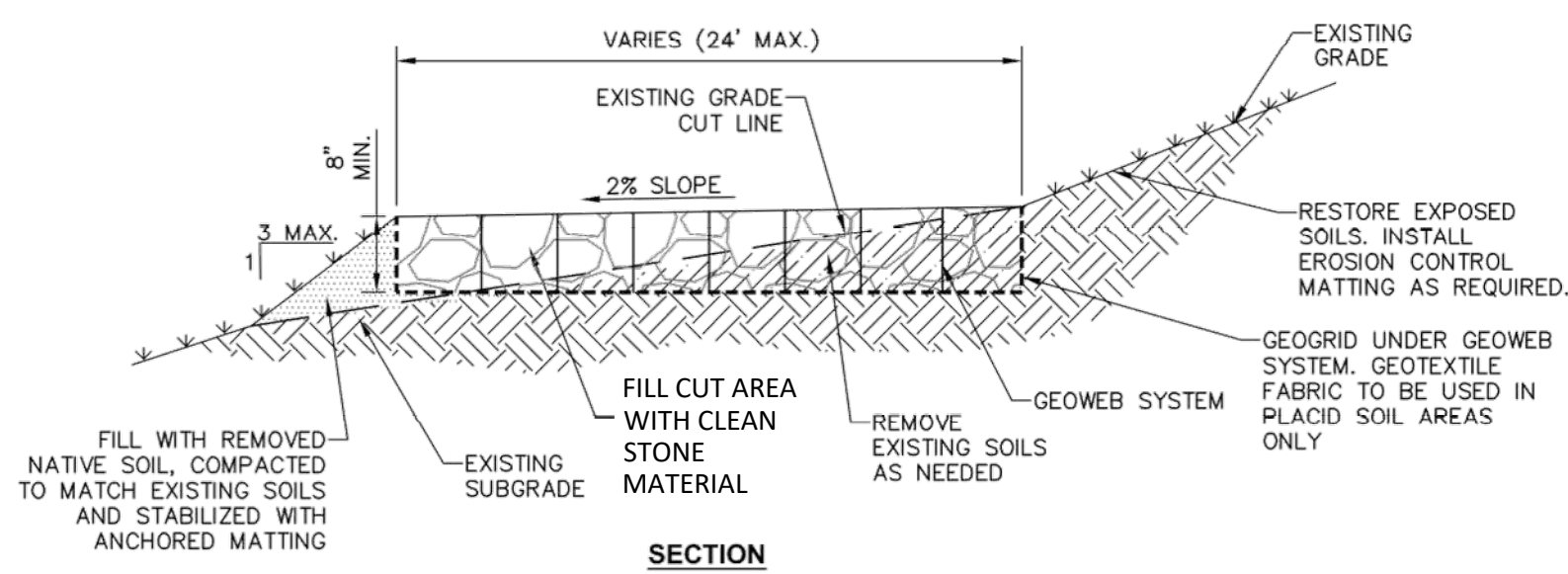
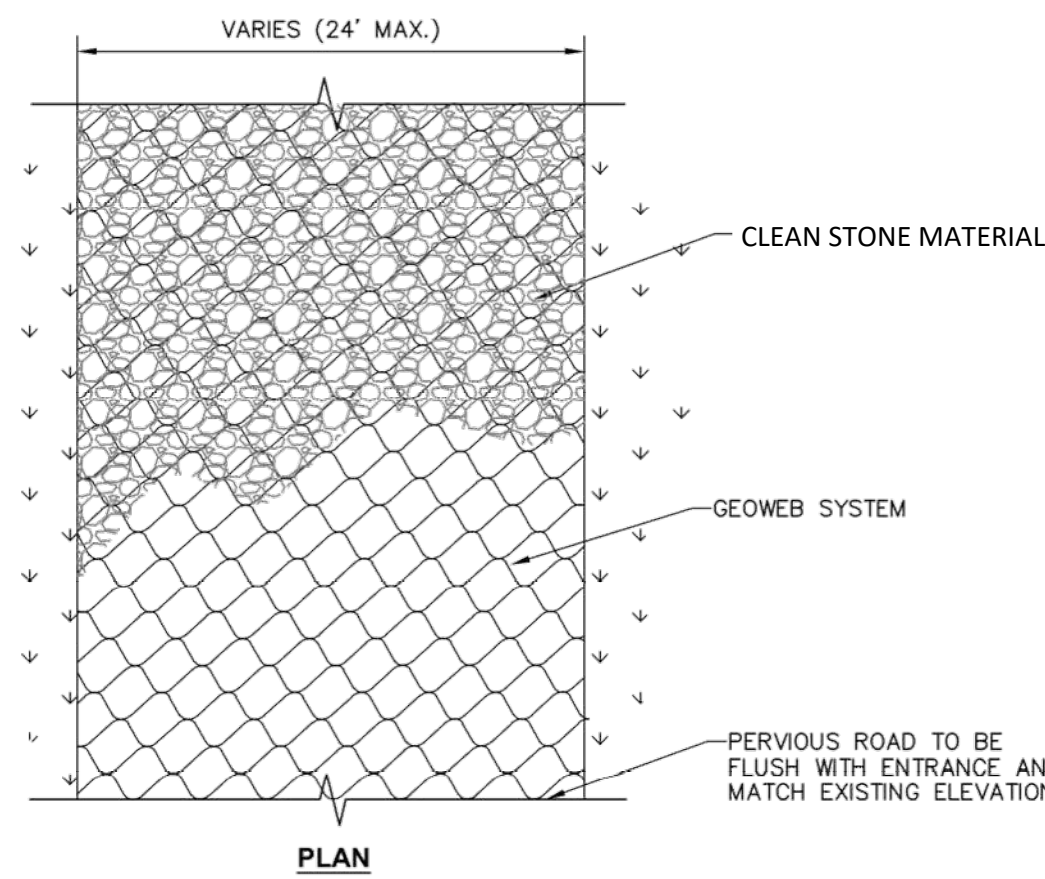
- THE GEOWEB, OR COMPARABLE PRODUCT, IS SUGGESTED FOR USE ON ROAD PROFILES EXCEEDING 10%. THE GEOWEB PRODUCT IS INTENDED TO LIMIT SHIFTING STONE MATERIAL DURING USE.
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- WHERE REQUIRED, A NATIVE SOIL WEDGE SHALL BE PLACED TO ACCOMMODATE ROAD CROSS SLOPE OF 2%. NATIVE SOIL SHALL BE COMPACTED TO MATCH EXISTING SOIL CONDITIONS.
- CLEAN STONE FILL MATERIAL SHALL CONSIST OF 1-4" CLEAN, DURABLE SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYS DOT ITEM 703-02, SIZE DESIGNATION 3-5 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.
- GEOWEB SYSTEM SHALL BE PRESTO GEOSYSTEM GEOWEB OR APPROVED EQUAL. GEOWEB SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED ROAD SLOPES.
- LIMITED USE PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH ONLY 1-4" CRUSHED STONE, SIZE 3A, MEETING NYS DOT ITEM 703-02 SPECIFICATIONS.
- THE TOP EDGES OF ADJACENT CELL WALLS SHALL BE FLUSH WHEN CONNECTING. ALIGN THE I-SLOTS FOR INTERLEAF AND END TO END CONNECTIONS. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTIONS. REFER TO MANUFACTURER'S SPECIFICATIONS FOR PROPER INSTALLATION, TYING AND CONNECTIONS.

WOVEN GEOTEXTILE MATERIAL NOTES:

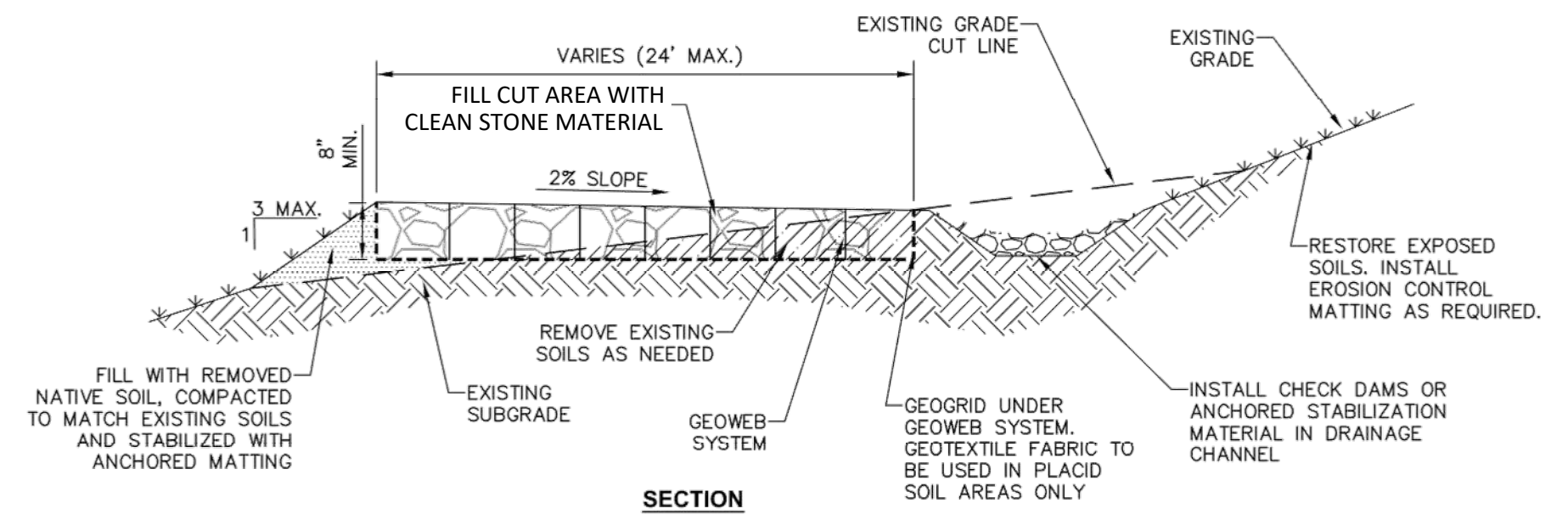
- SPECIFIED GEOTEXTILE WILL ONLY BE UTILIZED IN PLACID SOILS. PLACID SOILS CONSIST OF POORLY DRAINED SOILS COMPOSED OF FINELY TEXTURED PARTICLES AND ARE PRONE TO RUTTING. PLACID SOILS ARE TYPICALLY PRESENT IN LOW-LYING AREAS WITH HYDROLOGIC SOILS GROUP (HSG) OD C OR D, OR AS SPECIFIED FROM AN ENVIRONMENTAL SCIENTIST, SOIL SCIENTIST, OR GEOTECHNICAL DATA.
- THE CONCERN FOR POTENTIAL REDUCTION OF NATIVE INFILTRATION RATES DUE TO THE GEOTEXTILE MATERIAL WOULD NOT BE A SIGNIFICANT CONCERN ON POORLY DRAINED SOILS WHERE SEGREGATION OF PERVIOUS STONE AND NATIVE MATERIALS IS CRUCIAL FOR LOG TERM OPERATION AND MAINTENANCE.



1 LIMITED USE PERVIOUS ACCESS ROAD - 0% TO 10% SLOPES
C503 NOT TO SCALE



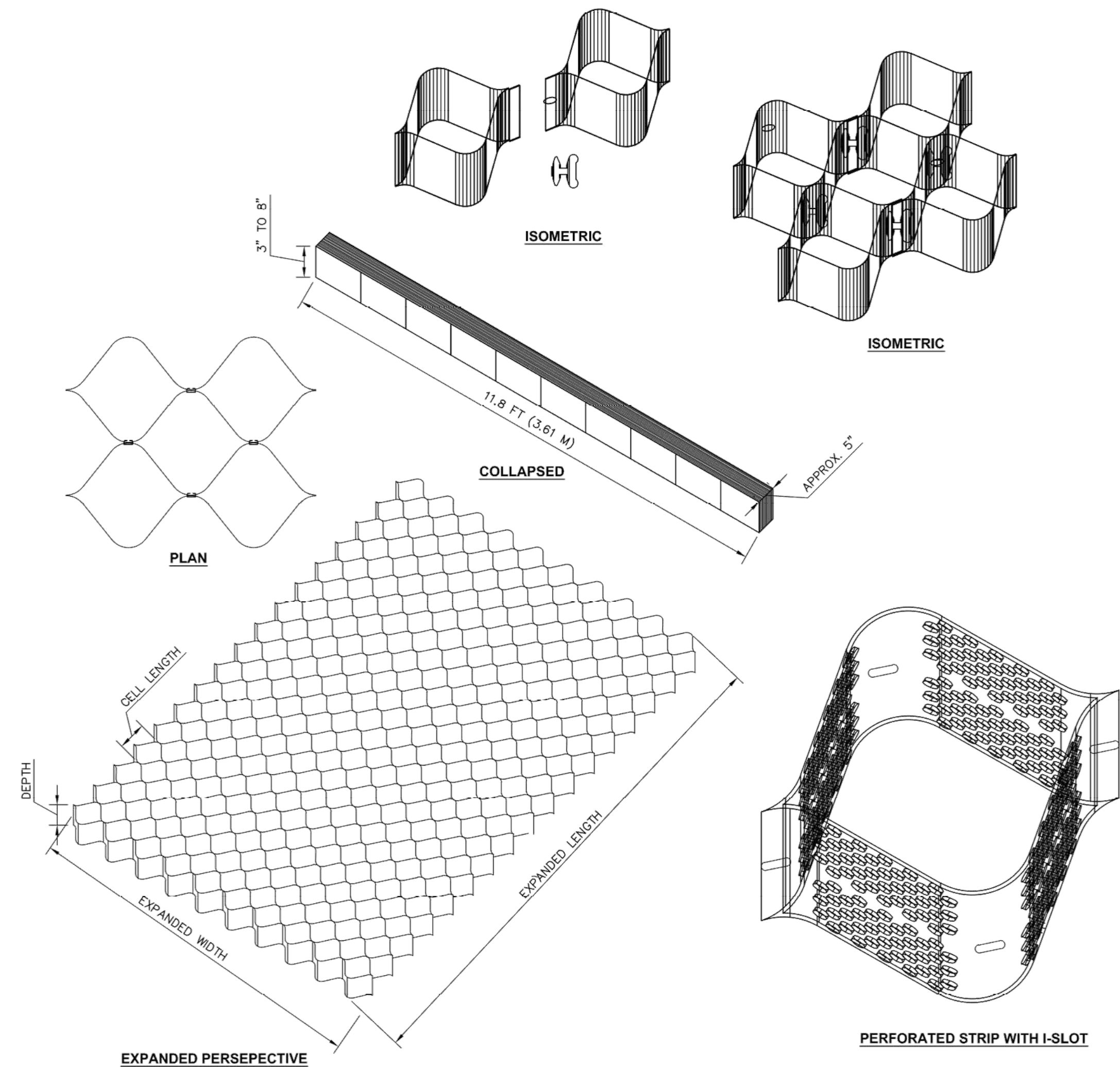
3 LIMITED USE PERVIOUS ACCESS ROAD - 10% AND GREATER SLOPES
C503 NOT TO SCALE



NOTE:

- THE ROADSIDE DITCH SHALL BE DESIGNED IN ACCORDANCE WITH THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR GRASSED AND VEGETATED WATERWAYS. SEE GRADING PLAN (SHEET C102) FOR DETAILS.

2 LIMITED USE PERVIOUS ACCESS ROAD - 10% AND GREATER SLOPES WITH DITCH
C503 NOT TO SCALE



4 GEOWEB SYSTEM
C503 NOT TO SCALE

CAW

In charge of

KJK

Designed by

KJK

Drawn by

RAM

Checked by

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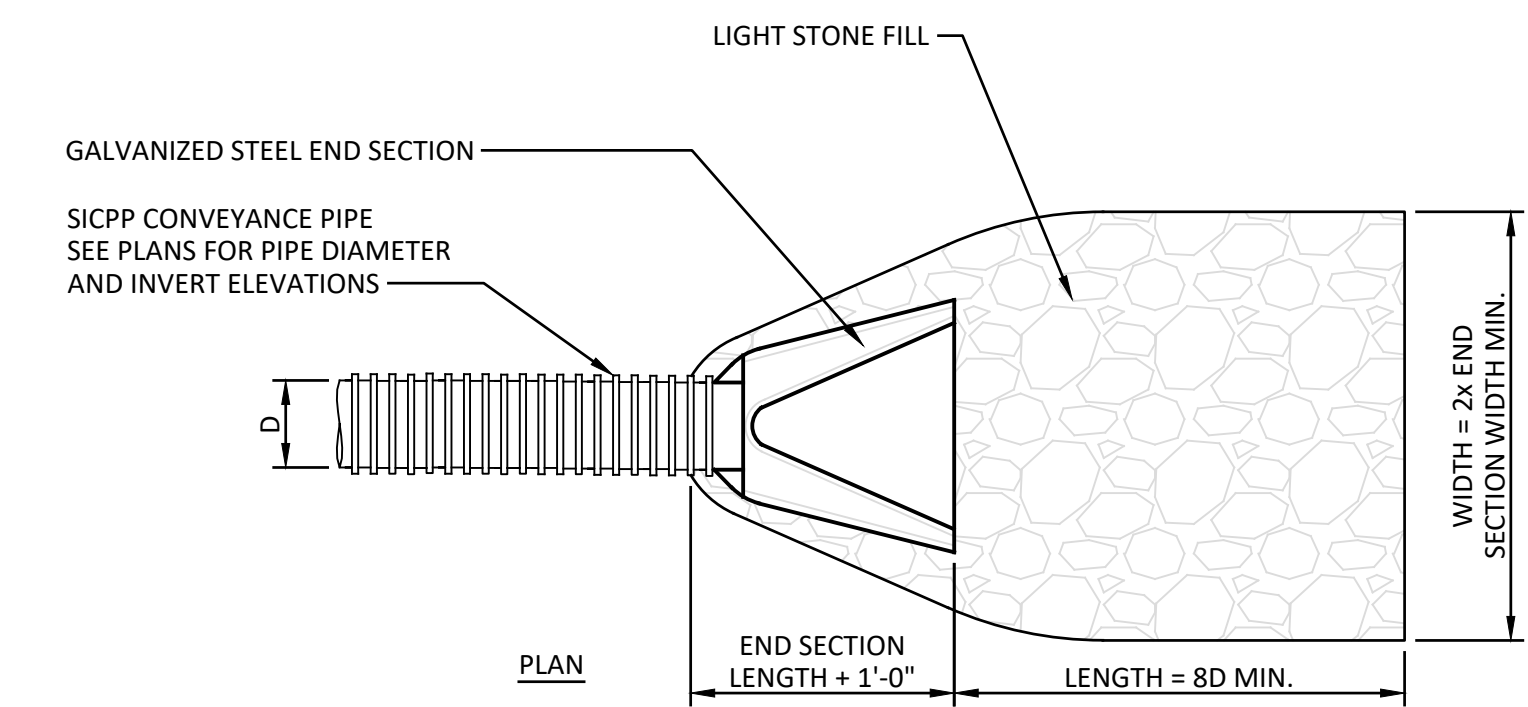
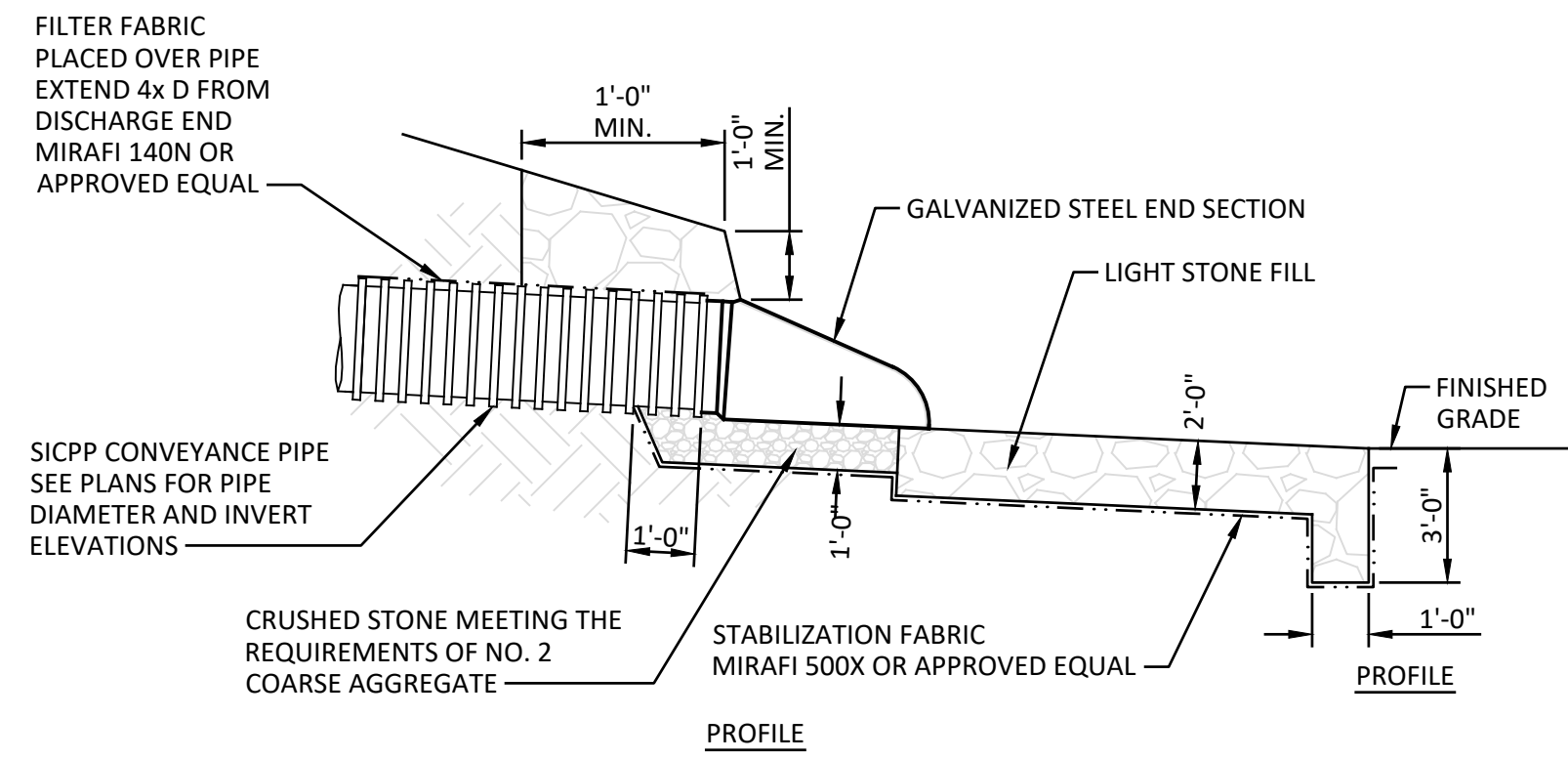
ABUNDANT SOLAR POWER (USNY-327 HARDIE RD-001) LLC
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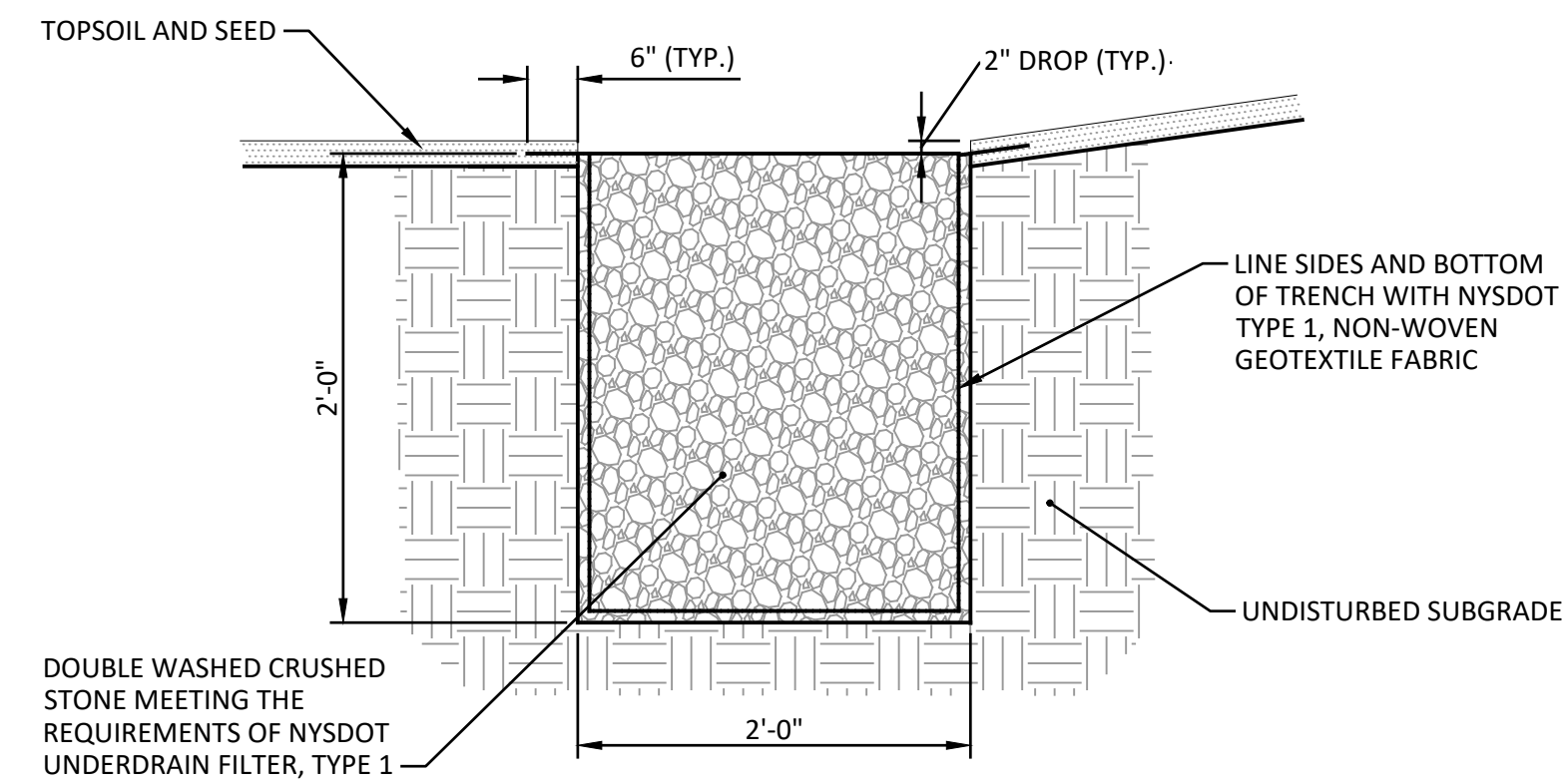


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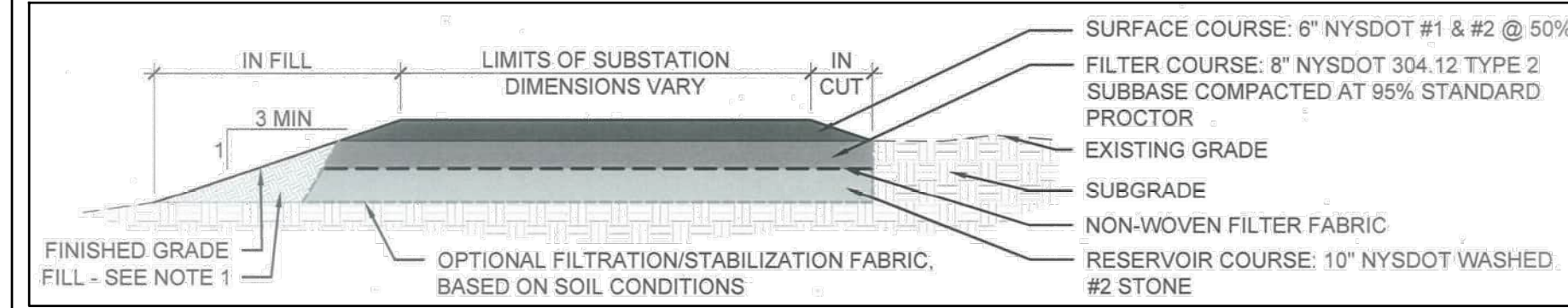
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1 STONE APRON AND END SECTION
 C504 NOT TO SCALE



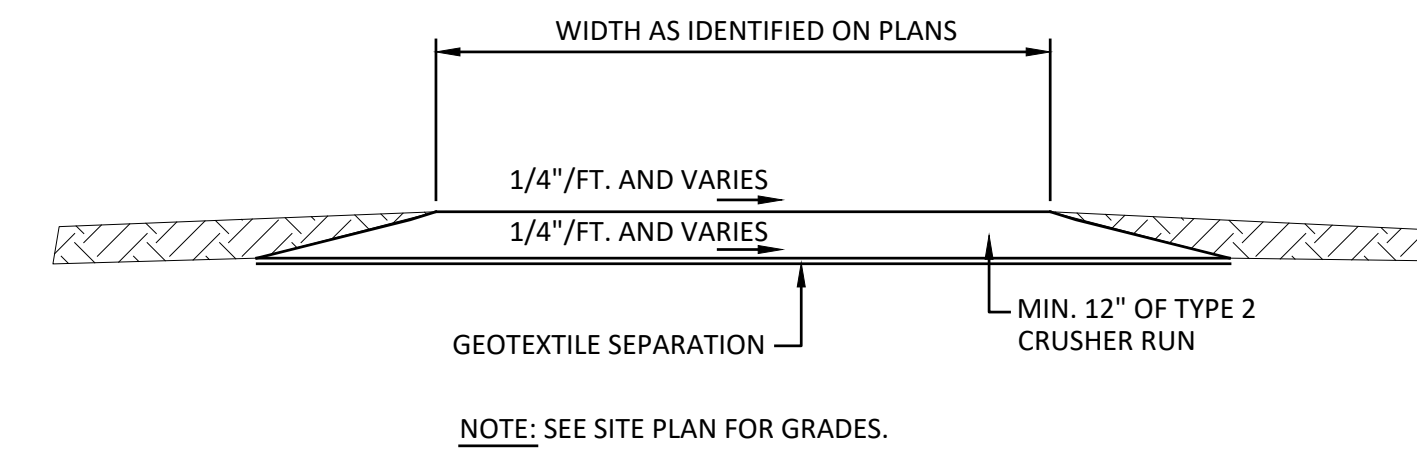
2 LEVEL SPREADER
 C504 NOT TO SCALE



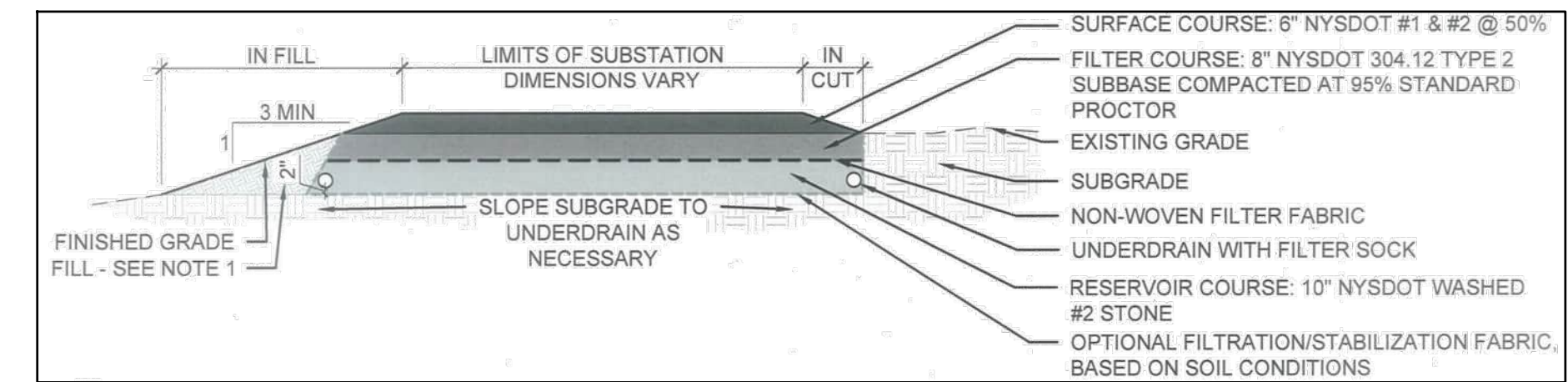
NOTES:

1. ALL FILL USED FOR SIDE SLOPES SHALL BE ONSITE MATERIAL FROM AREA CUT TO CREATE THE EQUIPMENT PAD OR SHALL BE OFFSITE FILL COMPACTED TO HAVE AN INFILTRATION RATE LESS THAN THE EQUIPMENT PAD SUBGRADE.
2. INFILTRATION TESTING SHALL BE COMPLETED AS REQUIRED BY APPENDIX D OF THE MOST CURRENT NYS STORMWATER MANAGEMENT DESIGN MANUAL, OR AS APPROVED BY THE NYS DEC REGIONAL OFFICE.
3. THIS SECTION SHALL BE APPLICABLE TO MEET THE STORMWATER MANAGEMENT REQUIREMENTS OF NEW DEVELOPMENT PER THE MOST CURRENT NYS STORMWATER MANAGEMENT DESIGN MANUAL, FOR SITES WITH INFILTRATION RATES OF GREATER THAN OR EQUAL TO 0.5 INCHES PER HOUR.

4 EQUIPMENT PAD SECTION - INFILTRATION RATE >= 0.5 IN/HR
 C504 NOT TO SCALE



3 GRAVEL DRIVE RESTORATION
 C504 NOT TO SCALE



NOTES:

1. ALL FILL USED FOR SIDE SLOPES SHALL BE ONSITE MATERIAL FROM AREA CUT TO CREATE THE EQUIPMENT PAD OR SHALL BE OFFSITE FILL COMPACTED TO HAVE AN INFILTRATION RATE LESS THAN THE EQUIPMENT PAD SUBGRADE.
2. UNDERDRAIN SIZE AND LAYOUT WILL VARY DEPENDING ON THE SIZE OF THE EQUIPMENT PAD.
3. UNDERDRAIN WILL DAYLIGHT AND DISCHARGE TO A LEVEL SPREADER THEN A VEGETATED FILTER STRIP OR RIPARIAN FOREST BUFFER TO MEET RUNOFF REDUCTION VOLUME REQUIREMENTS.
4. LEVEL SPREADER SHALL BE DESIGNED PER THE MOST CURRENT NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL TO CREATE SHEET FLOW PRIOR TO DISCHARGE TO THE VEGETATED FILTER STRIP OR RIPARIAN FOREST BUFFER.
5. THIS SECTION SHALL BE APPLICABLE TO MEET THE STORMWATER MANAGEMENT REQUIREMENTS OF NEW DEVELOPMENT PER THE MOST CURRENT NYS STORMWATER MANAGEMENT DESIGN MANUAL, FOR SITES WITH INFILTRATION RATES OF GREATER THAN OR EQUAL TO 0.5 INCHES PER HOUR.

5 EQUIPMENT PAD SECTION - INFILTRATION RATE < 0.5 IN/HR
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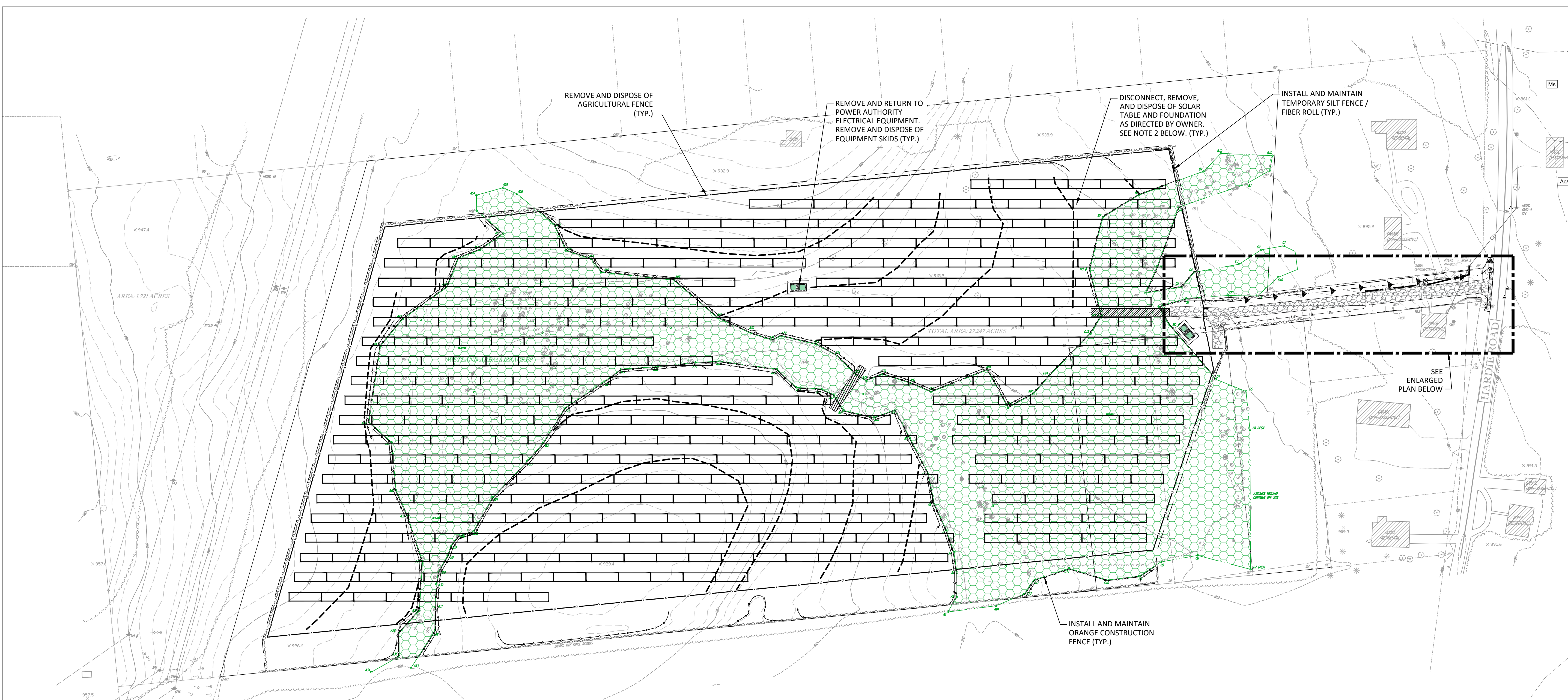
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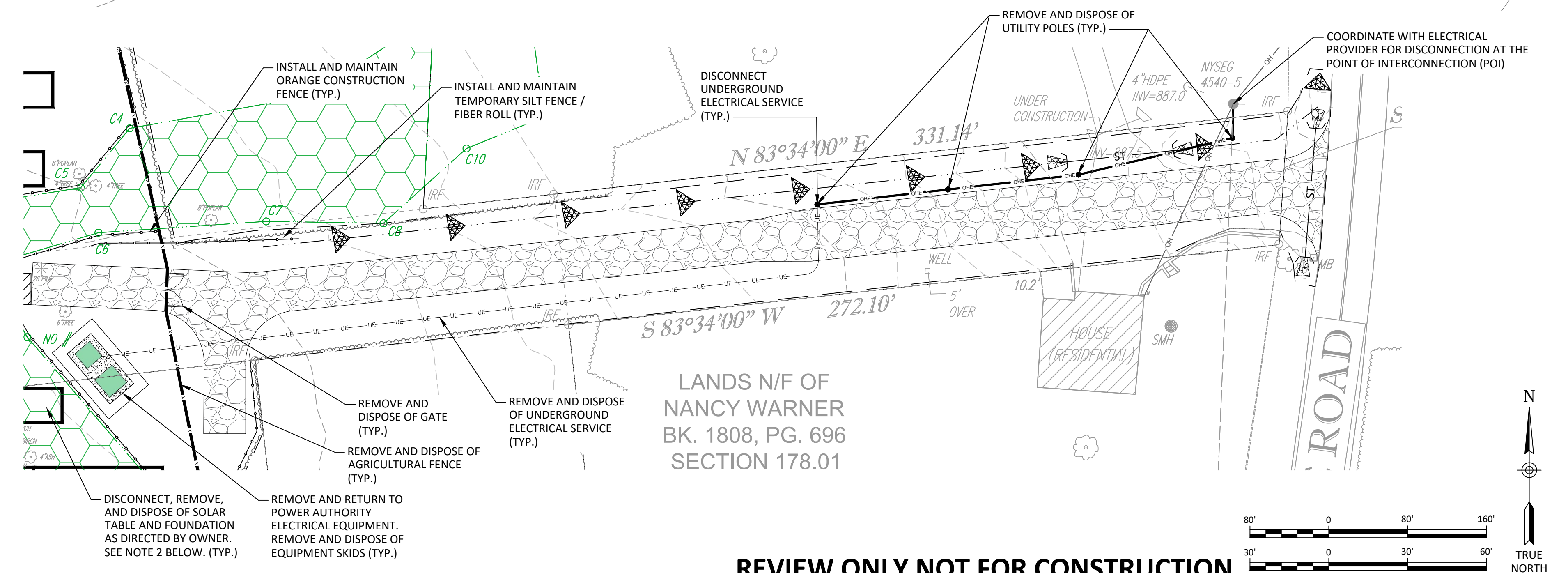
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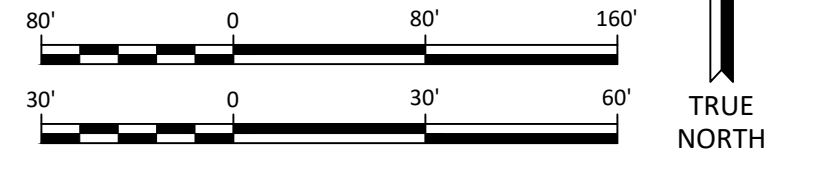


EXISTING CONDITIONS LEGEND		EXISTING CONDITIONS LEGEND (CONT.)	
--- 410 ---	MAJOR CONTOURS	▲	STONE CHECK DAM
--- 411 ---	MINOR CONTOURS	ST	STORMWATER CULVERT
---	PARCEL BOUNDARY	▲	RIP RAP OUTFALL PROTECTION
---	EDGE OF BRUSH	---	LEVEL SPREADERS
---	EDGE OF PAVEMENT		
OH	EXISTING OVERHEAD UTILITIES		
---	SOLAR FARM OVERHEAD ELECTRIC LINE		
---	BARBED WIRE, CHAIN LINKED FENCE		
---	SOLAR FARM AGRICULTURAL FENCING		
○	DECIDUOUS TREE		
●	SANITARY MANHOLE		
○	UTILITY POLE		
+ 357.82	SPOT ELEVATION		
○	CAPPED IRON ROD FOUND		
○	IRON ROD FOUND		
○	IRON PIPE FOUND		
○	WETLAND FLAG FOUND		
○	WETLAND BOUNDARY FLAG		
○	DELINEATED WETLAND BOUNDARY		
---	EXISTING UNPAVED ROAD		
---	EXISTING PAVED ROAD		
---	LIMITED US PERVIOUS ACCESS ROAD		
---	CONCRETE ELECTRICAL EQUIPMENT PAD		
---	SOLAR PANEL ARRAY		
---	SOLAR FARM UNDERGROUND ELECTRIC LINE		
---	DIVERSION SWALE		



- DECOMMISSIONING NOTES:**
- REFER TO THE LATEST VERSION OF THE DECOMMISSIONING PLAN REPORT FOR ADDITIONAL GUIDANCE.
 - PER TOWN CODE, REMOVE ALL FOOTINGS, FOUNDATIONS OR SIMILAR INSTALLATIONS TO A DEPTH OF FOUR FEET BELOW GRADE.

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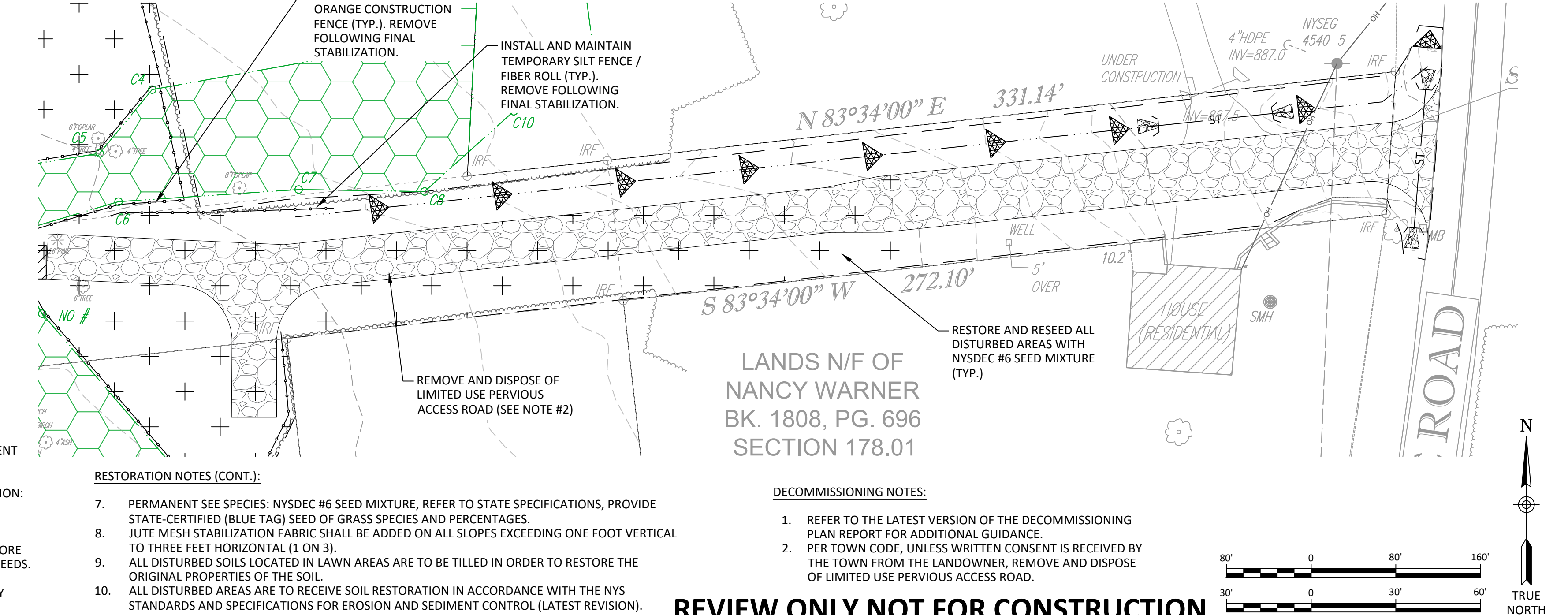
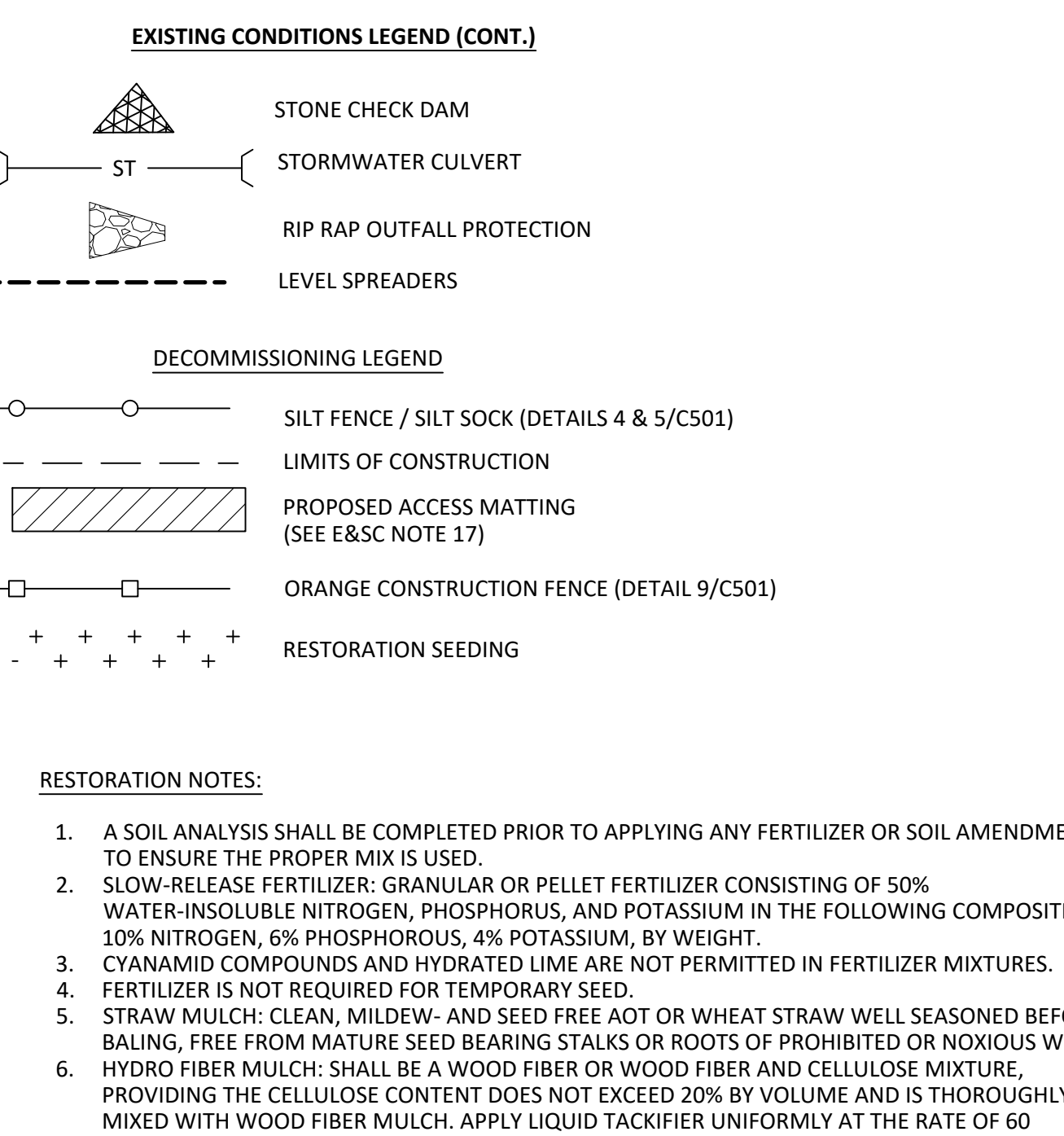
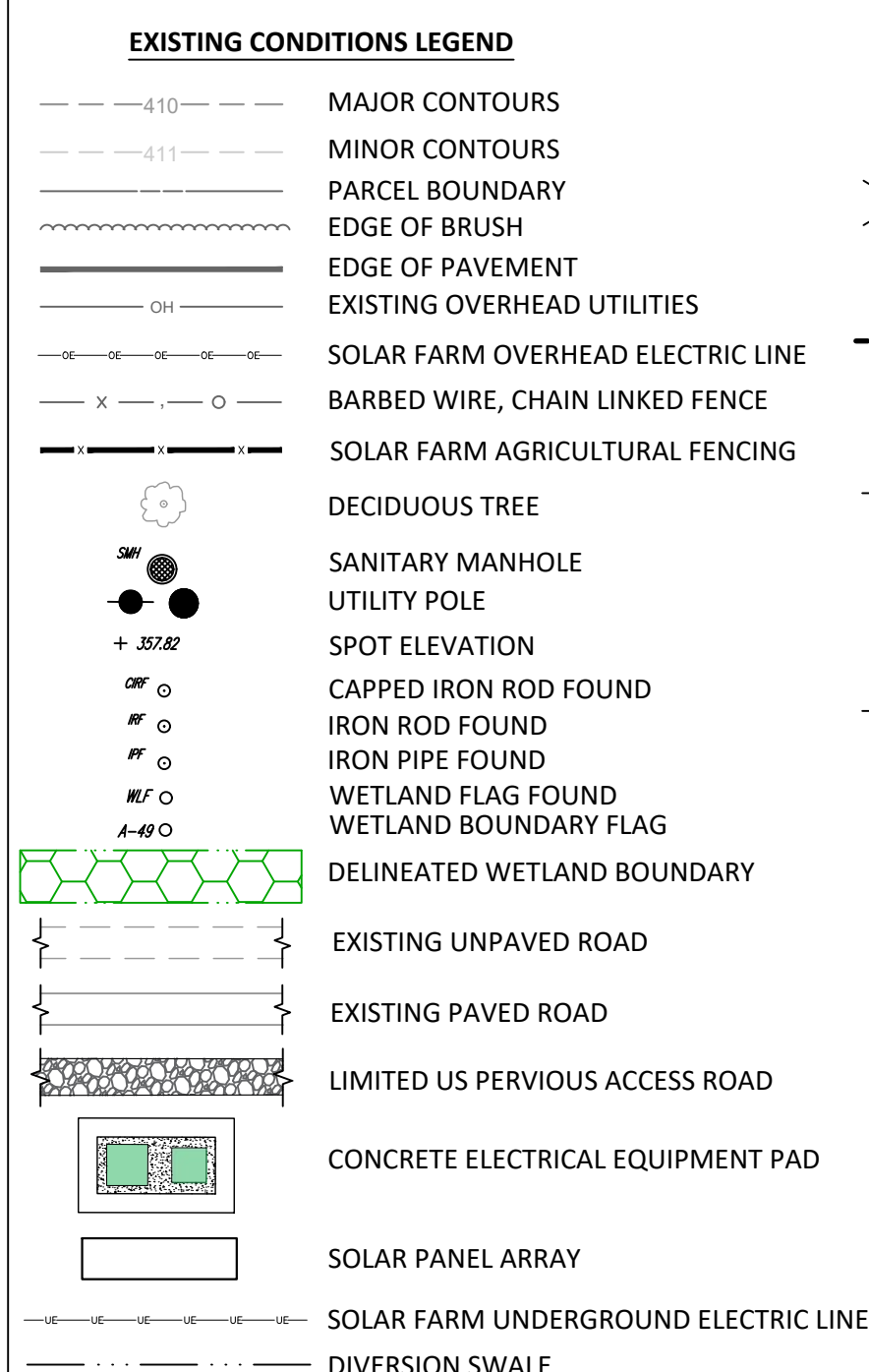
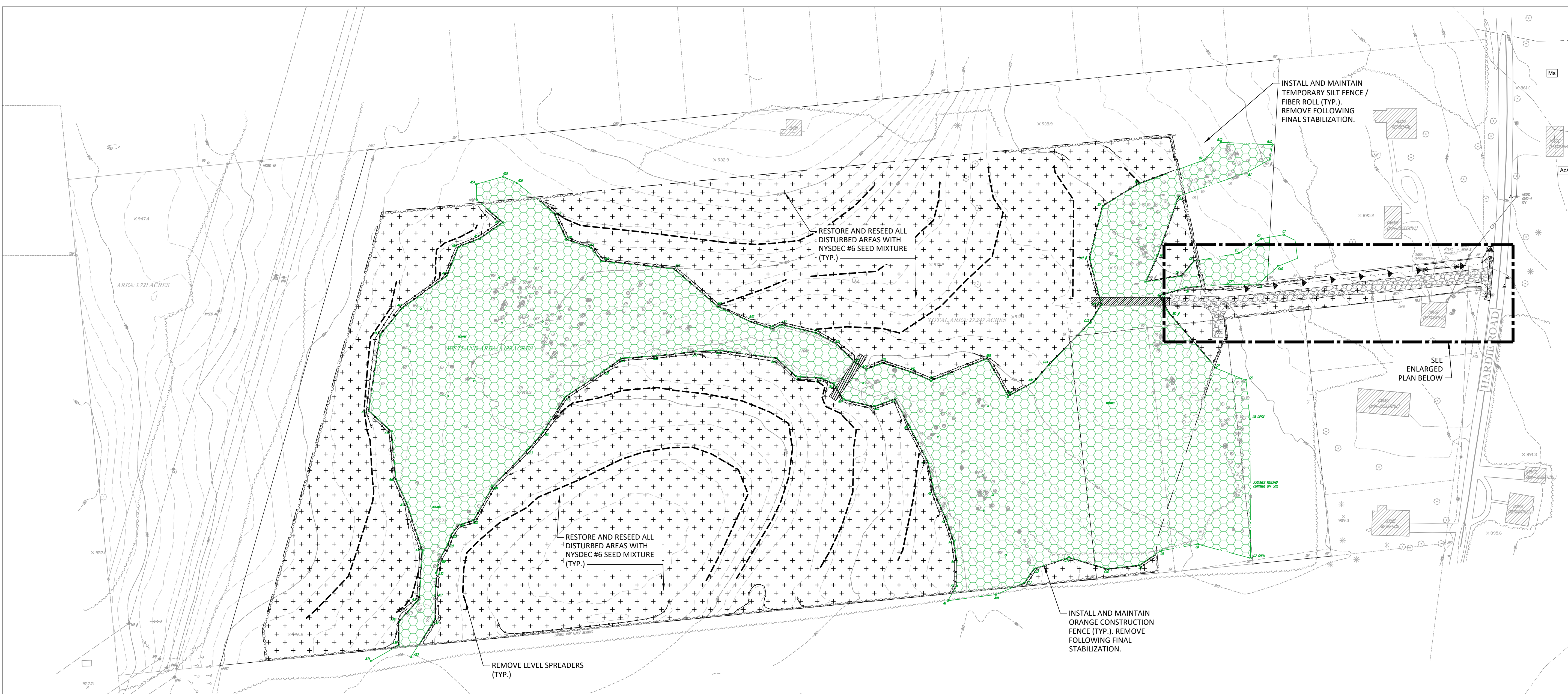
REVISIONS	
1	PB SUBMISSION

ABUNDANT SOLAR POWER (USNY-327 HARDIE RD-001) LLC
 HARDIE SOLAR FARM
 PHASE 1
 DECOMMISSIONING PLAN
 BROOME COUNTY, NEW YORK

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ABUNDANT SOLAR POWER (USNY-327 HARDIE RD-001) LLC
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PHASE 2 DECOMMISSIONING PLAN
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 Sheet Number: C902
 Project Number: 2271.005.001

REVIEW ONLY NOT FOR CONSTRUCTION

