

# 2020 NY GREENFIELD PV DESIGN - RILEY ROAD

1902 RILEY RD,  
CORTLAND, NY 13045

## PROJECT DATA

### PARCEL INFORMATION

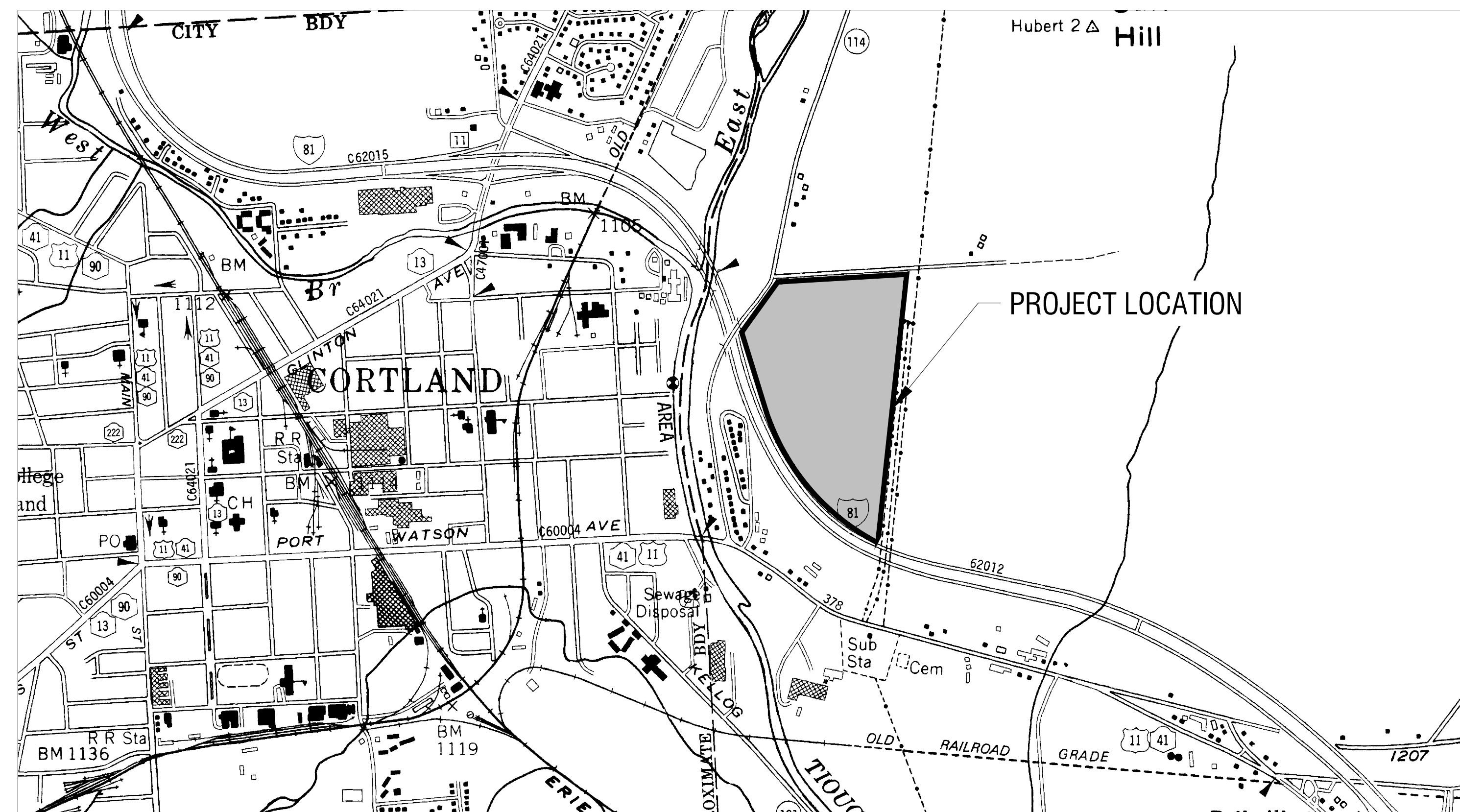
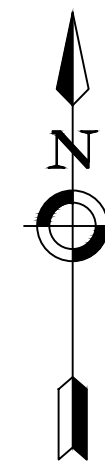
APPLICANT	NEXTERA ENERGY
PARCEL ADDRESS	1902 RILEY RD, CORTLANDVILLE, NY 13045
TAX NUMBER	87.00-03-08.112
GPS COORDINATES	N: 42.604164° W: -76.153672°
AVERAGE SITE ELEVATION	1275.00'
PARCEL AREA	52.05 ACRES
DISTURBANCE AREA	35.8 ACRES
EQUIPMENT PAD AREA	±11,400 SF
STAGING AREA	0.63 ACRES
FENCED AREA	34.24 ACRES
DRIVEN POST CROSS SECTIONAL AREA	±2 SF
DRIVEN POST QUANTITY	4,035
DRIVEN POST CROSS SECTIONAL AREA (TOTAL)	12,676.3 SF
ROAD LENGTH	±1,875 FT
SILT FENCE	±2,090 FT
CHAIN LINK FENCE	± 5,190 FT
GATE COUNT	2

### SYSTEM SUMMARY (TOTAL)

SYSTEM AC SIZE (MW)	5.0
SYSTEM DC SIZE (MW)	7.5
MODULE COUNT	20,982
INVERTER COUNT	X
SWITCH GEAR COUNT	X
TRANSFORMER COUNT	X
EQUIPMENT PAD COUNT	2
UTILITY POLE COUNT	6

### ZONING INFORMATION

	REQUIRED	PROPOSED
CODE APPLIED	TOWN OF CORTLAND	
WEBSITE	<a href="https://www.cortlandville.org/planning-zoning/pages/zoning-laws">HTTPS://WWW.CORTLANDVILLE.ORG/ PLANNING-ZONING/PAGES/ZONING-LAWS</a>	
CLASSIFICATION	AGRICULTURAL DISTRICT	
FRONT SETBACK	75 FT	75 FT
SIDE SETBACK	100 FT	75 FT
REAR SETBACK	75 FT	100 FT
ENTRANCE WIDTH	-	20 FT
MAX FENCE HEIGHT	-	7 FT
STRUCTURE COVERAGE	20%	±19%
MIN LOT SIZE	2 AC	52.05 AC



LOCATION MAP  
SCALE: N.T.S.

### CIVIL DRAWING INDEX

C000	COVER SHEET	REV 0-0
C001	CONSTRUCTION NOTES	REV 0-0
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C102	EXISTING CONDITIONS AND REMOVALS PLAN	REV 0-0
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C202	SITE PLAN	REV 0-0
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C502	EROSION & SEDIMENT CONTROL PLAN	REV 0-0
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C602	LANDSCAPING PLAN	REV 0-0
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C703	CONSTRUCTION DETAILS	REV 0-0
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## NEXTERA ENERGY RESOURCES

700 UNIVERSE BLVD.

JUNO BEACH, FL 33408

PROJECT NO: 2201200.08

NOVEMBER 2020



300 State Street, Suite 201  
Rochester, NY 14614  
585-454-6110  
labellapc.com



## GENERAL GRADING NOTES

1. THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF OSHA, AND ANY OTHER AGENCY HAVING JURISDICTION WITH REGARD TO SAFETY PRECAUTIONS WITH TRENCHING OPERATIONS. THE REQUIREMENTS SET FORTH HEREIN ARE INTENDED TO SUPPLEMENT REQUIREMENTS ESTABLISHED BY THESE AGENCIES. IN THE CASE OF A CONFLICT BETWEEN REQUIREMENTS OF OTHER JURISDICTIONAL AGENCIES AND THESE DOCUMENTS, THE MORE STRINGENT REQUIREMENT ON THE CONTRACTOR SHALL APPLY.
2. SHEETING, IF REQUIRED DURING CONSTRUCTION, IS CONSIDERED TO BE PART OF THIS CONTRACT AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
3. ALL TRENCHES THROUGH PAVEMENT SHALL BE SAW CUT PRIOR TO EXCAVATION AND AGAIN PRIOR TO PAVEMENT RESTORATION.
4. CONTRACTOR SHALL ADJUST THE RIMS OF ALL MANHOLES, CATCH BASINS, VALVE BOXES AND OTHER UTILITY SITE STRUCTURES TO MEET FINISHED GRADE IN AREAS REQUIRING REPAVING OR REGRADING AS PART OF THE WORK, INCLUDING THOSE THAT MAY NOT BE SHOWN ON THE PLANS.
5. VOIDS LEFT BY UTILITY OR STRUCTURE REMOVAL OR GRUBBING OPERATIONS SHALL BE BACKFILLED AND PROPERLY COMPACTED WITH STRUCTURAL FILL (NYS DOT ITEM 304.12) IN AREAS UNDER AND WITHIN 5 FEET HORIZONTALLY OF ALL STRUCTURES, BUILDINGS AND PAVEMENTS. IN GRASSED AREAS, VOIDS LEFT SHALL BE FILLED AND PROPERLY COMPACTED WITH SUITABLE ON-SITE OR IMPORTED EARTHEN BACKFILL. ALL DISTURBED AREAS SHALL BE RESTORED.
6. THE CONTRACTOR SHALL DEWATER ALL EXCAVATIONS TO PREVENT THE INTRODUCTION OF GROUNDWATER INTO THE TRENCHES/EXCAVATIONS. PROVIDE ALL EQUIPMENT NECESSARY TO MAINTAIN THE GROUNDWATER LEVEL AS NECESSARY.
7. THE CONTRACTOR SHALL PLACE AT A MINIMUM 6 INCHES OF MECHANICALLY CLEANED SCREENED TOPSOIL, FREE OF ANY ROOTS, CLAY CLUMPS, ROCKS LARGER THAN 1", AND OTHER FOREIGN MATTER IN ALL DISTURBED AREAS PRIOR TO SEEDING.
8. ANY DISCREPANCIES BETWEEN THE CONTRACTORS SURVEY STAKEOUT AND THE ENGINEERS DESIGN INTENT OR DETAILS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO INSTALLATION. FAILURE TO DO SO WILL NOT RESULT IN ADDITIONAL COSTS TO THE OWNER.

## TEMPORARY SEEDING NOTES

1. IF SPRING OR SUMMER OR EARLY FALL, THEN SEED THE AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE
2. IF LATE FALL OR EARLY WINTER, THEN SEED CERTIFIED 'AROOSTOOK' WINTER RYE (CERIAL RYE) AT 100 LBS PER ACRE.
3. FERTILIZER OR LIME ARE NOT TYPICALLY USED FOR TEMPORARY SEEDING, BUT IF USED SHOULD BE IN ACCORDANCE WITH THE PERMANENT SEEDING NOTES ON THE LANDSCAPE PLAN.
4. ANY SEEDING METHOD MAY BE USED THAT WILL PROVIDE UNIFORM APPLICATION OF SEED TO THE AREA AND RESULT IN RELATIVELY GOOD SOIL TO SEED CONTACT.
5. MULCH THE AREA WITH HAY OR STRAW AT 2 TONS PER ACRE (4 TONS PER ACRE IN WINTER). QUALITY OF HAY OR STRAW MULCH ALLOWABLE WILL BE DETERMINED BASED ON LONG TERM USE AND VISUAL CONCERNS. MULCH ANCHORING WILL BE REQUIRED WHERE WIND OR AREAS OF CONCENTRATED WATER ARE OF CONCERN.

BASEMAP INFORMATION		
PART OF BASEMAP	RECEIVED FROM	DATE
WETLAND DELINEATION	NEXT ERA ENERGY SOURCES	JULY 3, 2020
LEGAL DESCRIPTION	CHICAGO TITLE INSURANCE COMPANY	APRIL 14, 2020
TOPOGRAPHIC SURVEY	NEXT ERA ENERGY RESOURCES	JULY 3, 2020
BOUNDARY SURVEY	SCHWERZLER LAND SURVEYING, LLC	JULY 6, 2020
TREE LINES	TRACED FROM AERIAL IMAGERY	JULY 6, 2020

## GENERAL NOTES

1. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE TO LOCATE UTILITIES OUTSIDE THE RIGHT-OF-WAY INCLUDING PRIVATE ROADS.
2. SITE DRAINAGE, INCLUDING THE PROJECT SITE AND ADJACENT PRIVATE AND PUBLIC ROADWAYS, DRIVES, PARKING AREAS OR PROPERTIES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING ALL MATERIALS, TOOLS AND EQUIPMENT, INCLUDING SPECIAL CUTTING DEVICES, NECESSARY TO PERFORM THE WORK CONTAINED IN THIS CONTRACT.
4. THE SIZES AND MATERIAL OF CONSTRUCTION OF WATER MAINS, SANITARY SEWERS AND STORM SEWERS TO REMAIN ARE REPUTED. THE CONTRACTOR SHALL VERIFY SIZES OF ALL UTILITIES WHERE CONNECTIONS TO SAID EXISTING UTILITIES ARE REQUIRED. EXCAVATION TO VERIFY THESE UTILITIES SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE AMENITIES NOT DESIGNATED FOR REMOVAL.
6. UNLESS OTHERWISE INDICATED ON THE PLANS OR DIRECTED BY THE ARCHITECT/ENGINEER, THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING AND PROTECTING FROM DAMAGE ALL TREES, SHRUBS AND PLANTS IN THE VICINITY OF THE PROPOSED WORK.
7. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXISTING UTILITIES DESIGNATED TO REMAIN FOR THE DURATION OF THE CONTRACT.
8. ANY SITE AMENITY, UTILITY, STREET APPURTENANCE, OR OTHER ITEM WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND BY THE CONTRACTOR AS DETERMINED BY THE PROJECT MANAGER OR ARCHITECT/ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

## SURVEY NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY MARKERS AND RIGHT-OF-WAY MARKERS IN THE AREA OF CONSTRUCTION.
3. ANY IRON PINS, MONUMENTS OR OTHER ITEMS DEFINING PROPERTY LINES WHICH ARE DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE PROPERLY TIED AND ACCURATELY RESET BY A NYS LICENSED SURVEYOR UPON COMPLETION OF THE WORK.
4. THE VERTICAL DATUM IS REFERENCED TO NORTH AMERICAN VERTICAL DATUM 88 (NAVD 88).
5. THE HORIZONTAL DATUM IS REFERENCED TO NORTH AMERICAN DATUM 83 (NAVD 83) - STATE PLANE NEW YORK CENTRAL.

## RESTORATION NOTES

1. A SOILS ANALYSIS SHALL BE COMPLETED PRIOR TO APPLYING ANY FERTILIZER OR SOIL AMENDMENT TO ENSURE THE PROPER MIX IS USED.
2. SLOW-RELEASE FERTILIZER: GRANULAR OR PELLETTED FERTILIZER CONSISTING OF 50 PERCENT WATER- INSOLUBLE NITROGEN, PHOSPHORUS, AND POTASSIUM IN THE FOLLOWING COMPOSITION:  
COMPOSITION: 10 PERCENT NITROGEN, 6 PERCENT PHOSPHOROUS, 4 PERCENT POTASSIUM, BY WEIGHT.
3. CYANAMID COMPOUNDS AND HYDRATED LIME ARE NOT PERMITTED IN FERTILIZER MIXTURES.
4. FERTILIZER IS NOT REQUIRED FOR TEMPORARY SEED.
5. STRAW MULCH: CLEAN, MILDEW- AND SEED FREE OAT OR WHEAT STRAW WELL SEASONED BEFORE BALING, FREE FROM MATURE SEED BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS.
6. HYDRO FIBER MULCH: SHALL BE A WOOD FIBER OR WOOD FIBER AND CELLULOSE MIXTURE, PROVIDING THE CELLULOSE CONTENT DOES NOT EXCEED 20% BY VOLUME AND IS THOROUGHLY MIXED WITH WOOD FIBER MULCH. APPLY LIQUID TACKIFIER UNIFORMLY AT THE RATE OF 60 GALLONS PER ACRE, TO KEEP STRAW MULCH IN PLACE.
7. PERMANENT SEED SPECIES: REFER TO SPECIFICATIONS, PROVIDE STATE-CERTIFIED (BLUE TAG) SEED OF GRASS SPECIES AND PERCENTAGES
8. SLOPE STABILIZATION MESH STABILIZATION FABRIC SHALL BE ADDED ON ALL SLOPES EXCEEDING ONE FOOT VERTICAL TO THREE FEET HORIZONTAL (1 ON 3).
9. ALL DISTURBED SOILS LOCATED IN LAWN AREAS ARE TO BE TILLED A MINIMUM OF 12" IN ORDER TO RESTORE THE ORIGINAL PROPERTIES OF THE SOIL.

## SCHEDULE OF CONSTRUCTION ACTIVITIES

1. SCHEDULE A PRE-CONSTRUCTION MEETING WITH TOWN OFFICIALS, OWNER, EMERGENCY SERVICES, UTILITY & OTHER AGENCIES IN ATTENDANCE.
2. SUBMIT EROSION CONTROL MEASURES AND SEQUENCING FOR REVIEW AND APPROVAL BY THE QUALIFIED INSPECTOR.
3. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
4. INSTALL CONSTRUCTION AREA, DESIGNATED TOPSOIL STOCKPILE AREA, AND STAGING AREA FENCING.
5. INSTALL PERIMETER SEDIMENT CONTROLS, SUCH AS SILT FENCE / SEDIMENT SOCK.
6. PROTECT EXISTING VEGETATION AND OTHER ENVIRONMENTAL FEATURES TO BE PRESERVED WITH ORANGE CONSTRUCTION FENCE OR TREE PROTECTION.
7. CLEAR AND GRUB BRUSH, SHRUBS, AND OTHER DEBRIS WITHIN DESIGNATED AREAS.
8. INSPECT, CLEAN, AND MAINTAIN EROSION CONTROL MEASURES AS NECESSARY AND AS ORDERED BY THE QUALIFIED INSPECTOR. SWEEP PUBLIC OR PRIVATE ROADWAYS, DRIVES AND PARKING AREAS AS NECESSARY TO MAINTAIN CLEAN FROM DEBRIS, RELOCATED AND RESET EROSION CONTROL MEASURES AND CONSTRUCTION FENCING AS REQUIRED TO COMPLETE WORK. ALL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL BEFORE COMMENCEMENT OF CONSTRUCTION OF ANY SEGMENT OF THE PROJECT THAT REQUIRES SUCH MEASURES.
9. STABILIZE DISTURBED AREAS AND STOCKPILES WITHIN 14 DAYS OF LAST CONSTRUCTION ACTIVITY IN EACH AREA. (7 DAYS IF GREATER THAN 5 ACRES DISTURBED)
10. INSTALL UTILITIES. EXCESS MATERIALS NOT BACKFILLED IN UTILITY TRENCHES SHALL BE REMOVED FROM THE SITE OR SPOILED IN AREAS APPROVED BY THE OWNER. EROSION CONTROL MEASURES ARE NOT REQUIRED AROUND SOILS (EARTHEN MATERIALS) EXCAVATED, SIDE CAST AND BACKFILLED INTO THE TRENCH WITHIN THE SAME DAY.
11. DEWATER EXCAVATIONS AS NECESSARY. PUMPED WATER SHALL BE TREATED TO REMOVE SEDIMENT PRIOR TO DISCHARGE.
12. RESTORE TO EXISTING GRADE AS TRENCH BACKFILLING PROGRESSING. MAINTAIN PROPER SITE DRAINAGE TO PROTECT WORK AREA, ADJACENT PROPERTIES, SWALES, AND OTHER WATERCOURSES.
13. BOX OUT AREAS FOR PERVIOUS ACCESS ROADS AND EQUIPMENT PADS, AS UTILITY REPLACEMENTS ARE COMPLETE, PREPARE THE ROADWAY SUBGRADE AS REQUIRED.
14. INSTALL CONCRETE WASHOUT AREA. NO WET OR FRESH CONCRETE, WASHINGS FROM CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES, OR CONCRETE LEACHATE SHALL BE ALLOWED TO ESCAPE INTO ANY WETLANDS OR WATERS.
15. INSTALL PERMANENT SEEDING, FERTILIZER, AND MULCH.
16. COMPLETE GRADING IF REQUIRED, REAPPLY TOPSOIL, INSTALL PERMANENT SEEDING, FERTILIZER, AND MULCH.
17. COMPLETE PERVIOUS ACCESS ROAD INSTALLATION ONCE ALL AREAS SUBJECT TO RUNOFF ONTO THE PERVIOUS ACCESS ROAD HAVE ACHIEVED FINAL STABILIZATION.
18. CAPTURE, REMOVE, AND DISPOSE OF ACCUMULATED SILT OR SEDIMENT FROM SILT FENCE, CHECK DAMS, INLET PROTECTION, AND SEDIMENT BASINS.
19. CLEAN THE SITE OF ALL INCIDENTAL CONSTRUCTION MATERIALS THAT ARE NOT INCORPORATED INTO THE WORK, AND PROPERLY DISPOSE OFFSITE.
20. SEED, MULCH, AND FERTILIZE TO ESTABLISH VEGETATION AT DISTURBED AREAS NOT DESIGNATED FOR PAVEMENT OR OTHER SURFACES, WHERE SEED DOES NOT GERMINATE OR WHERE WASHOUT, EROSION, RUTTING, OR OTHER DAMAGE OCCURS, REPAIR DAMAGE, RE-SEED AND RE-FERTILIZE AS NECESSARY TO ACHIEVE 80% GERMINATION OVER 100% OF THE SITE.
21. REMOVE ALL TEMPORARY EROSION CONTROL PRACTICES UPON APPROVAL OF FINAL STABILIZATION BY THE QUALIFIED INSPECTOR.



If is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

## NEXT ERA ENERGY

700 UNIVERSE BLVD.  
JUNO BEACH, FL 33408



## 2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1

1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2201200.08

DRAWN BY: BER

REVIEWED BY: DG

ISSUED FOR: REVIEW

DATE: NOVEMBER 2020

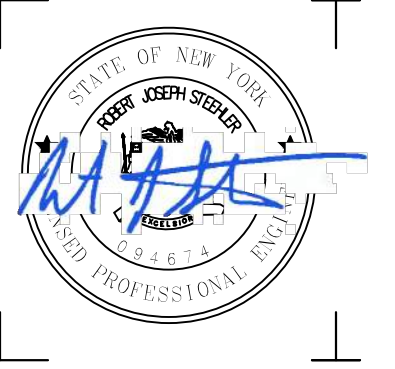
DRAWING NAME:

## CONSTRUCTION NOTES

DRAWING NUMBER:

**C001**





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**NEXTERA ENERGY**

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**2020 NY GREENFIELD PV  
DESIGN - RILEY ROAD 1**

1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2201200.08

DRAWN BY: JMA

REVIEWED BY: DG

ISSUED FOR: REVIEW

DATE: NOVEMBER 2020

DRAWING NAME:

**EXISTING CONDITIONS  
AND REMOVALS PLAN  
(SHEET 1 OF 2)**

DRAWING NUMBER:

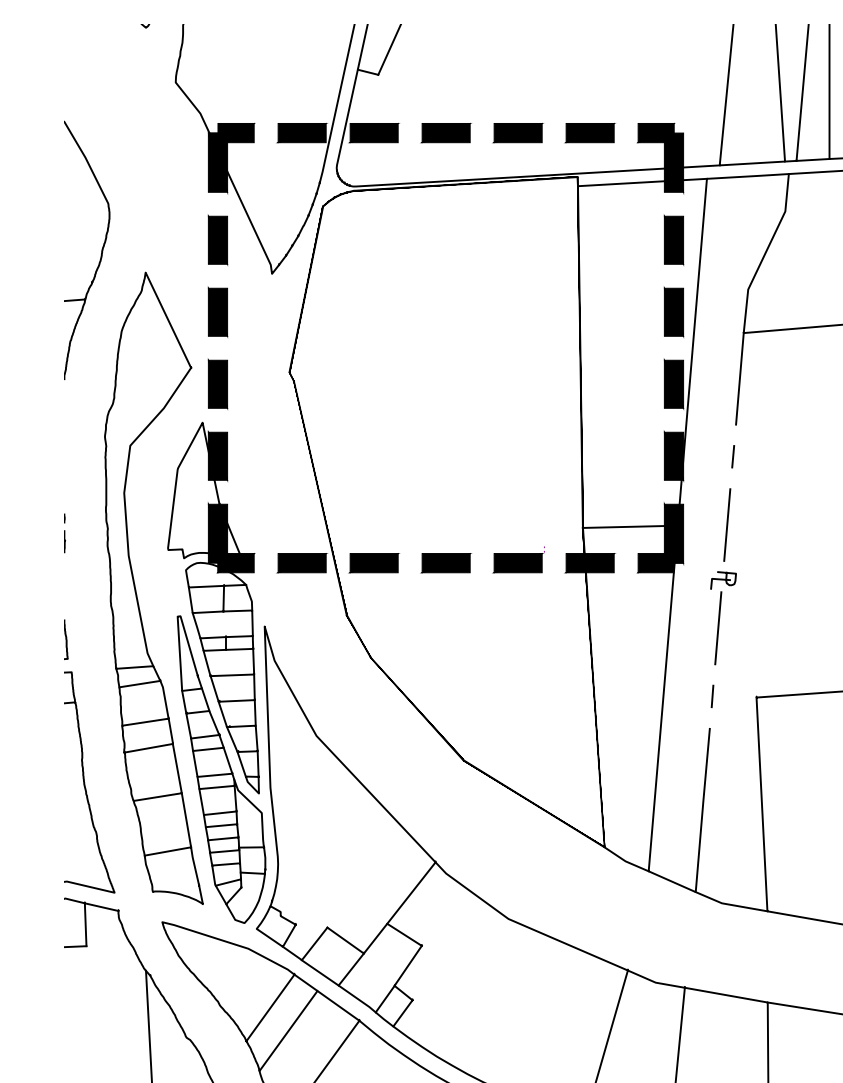
**C101**

**DEMOLITION NOTES**

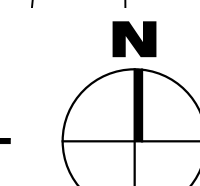
- EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATIONS AND PRIOR CONSTRUCTION DOCUMENTS WHEN AVAILABLE AND ARE NOT GUARANTEED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. NO ALLOWANCE WILL BE MADE FOR ADDITIONAL COSTS DUE TO CONTRACTOR'S FAILURE TO VERIFY EXISTING CONDITIONS AND DIMENSIONS.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK AT 811 TO REQUEST UTILITY STAKEOUT OF ALL PUBLIC UTILITIES.
- THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES, STRUCTURES, AND APPURTENANCES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, STRUCTURES, AND APPURTENANCES IN THE PATH OF AND ADJACENT TO THE PROPOSED WORK.
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- THE CONTRACTOR SHALL NOTIFY THE LOCAL GOVERNMENT, LOCAL FIRE DEPARTMENT AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) AS NECESSARY AND SHALL OBTAIN ANY REQUIRED PERMITS PRIOR TO BEGINNING WORK. COPIES OF ANY REQUIRED PERMITS SHALL BE PROVIDED TO THE OWNER PRIOR TO BEGINNING THE WORK.
- CONTRACTOR SHALL REMOVE FROM SITE, MATERIALS NOT INDICATED TO BE SALVAGED INCLUDING ALL DEBRIS. ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF CONTRACTOR WHO SHALL LEGALLY DISPOSE OF SAME.
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- COORDINATE LOCATION OF TEMPORARY CONSTRUCTION FENCE AND TEMPORARY STONE STAGING AREA WITH OWNER

**LEGEND**

EXISTING	DESCRIPTION
	WETLAND
	ROADWAY CENTERLINES
	CHAIN LINK FENCE
	TREELINE
	PROPERTY LINE
	SETBACK/BUFFER LINE
	EASEMENT LINE
	OVERHEAD ELECTRIC LINE
	MAJOR CONTOUR
	OF DRAINAGE SWALE
	UTILITY POLE W/O LIGHT

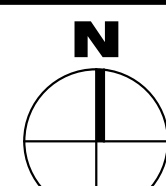


1 KEY PLAN  
C101 SCALE: 1" = 750'



MATCH TO SHEET C-102

2 EXISTING CONDITIONS AND REMOVALS PLAN  
C101 SCALE: 1" = 80'





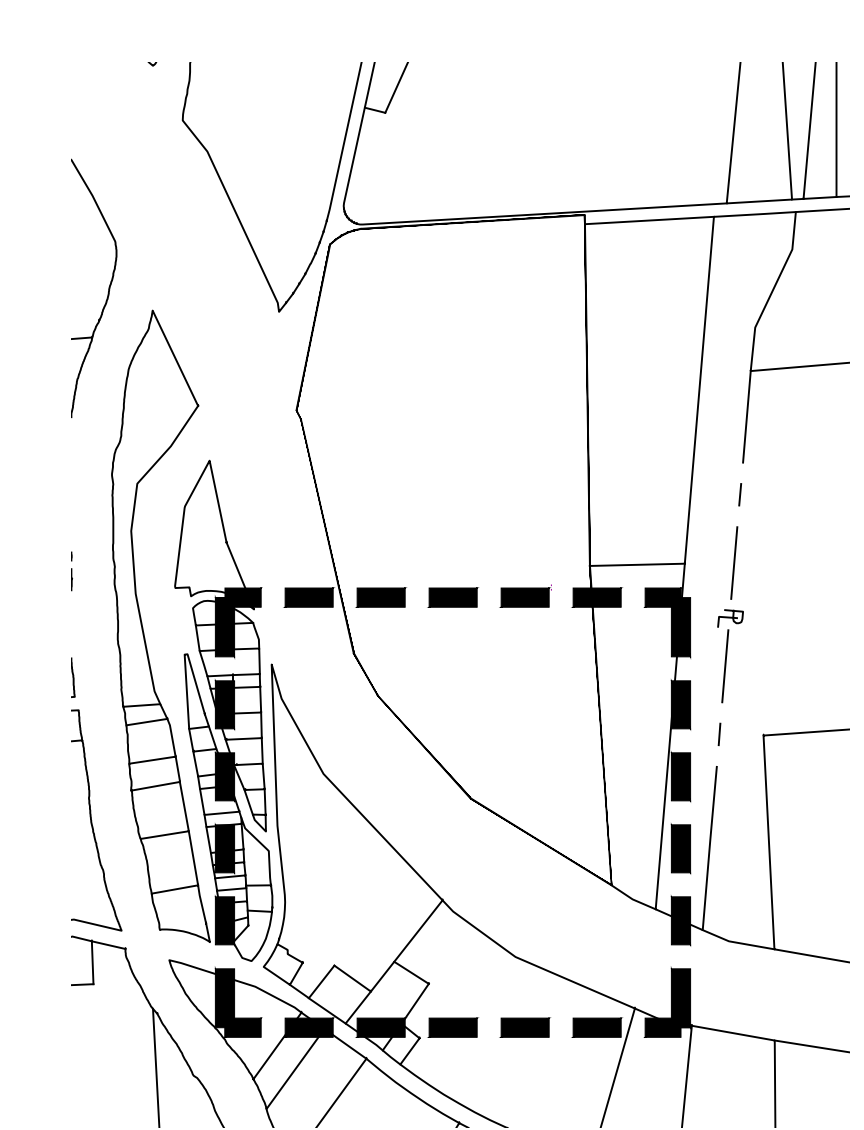


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- COORDINATE LOCATION OF TEMPORARY CONSTRUCTION FENCE AND TEMPORARY STONE STAGING AREA WITH OWNER

**LEGEND**

EXISTING	DESCRIPTION
	WETLAND
	ROADWAY CENTERLINES
	CHAIN LINK FENCE
	TREELINE
	PROPERTY LINE
	SETBACK/BUFFER LINE
	EASEMENT LINE
	OVERHEAD ELECTRIC LINE
	MAJOR CONTOUR
	OF DRAINAGE SWALE
	UTILITY POLE W/O LIGHT

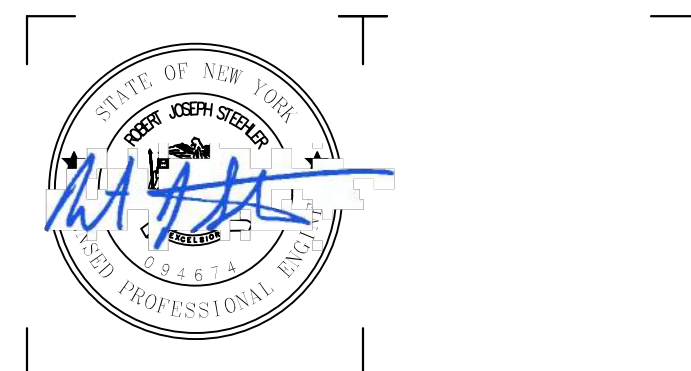


**1 KEY PLAN**  
SCALE: 1" = 750'

**2 EXISTING CONDITIONS AND REMOVALS PLAN**  
SCALE: 1" = 80'

300 State Street, Suite 201  
Rochester, NY 14614  
585-454-6110

labbella.com



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700 UNIVERSE BLVD.  
JUNO BEACH, FL 33408



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1902 RILEY RD.  
CORTLANDVILLE, NY 13045

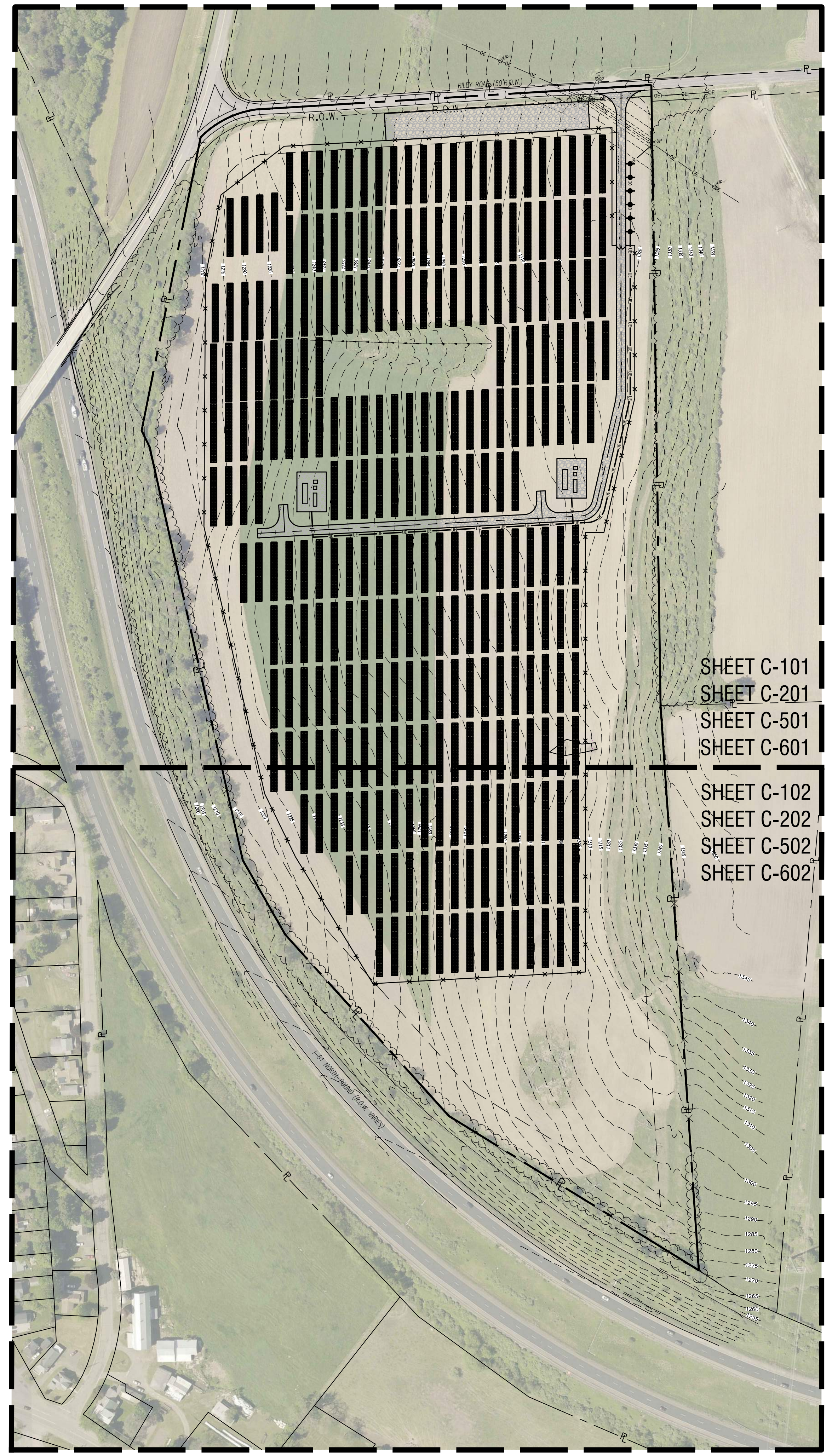
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2201200.08
DRAWN BY:		JMA
REVIEWED BY:		DG
ISSUED FOR:		REVIEW
DATE:		NOVEMBER 2020
DRAWING NAME:		

**EXISTING CONDITIONS AND REMOVALS PLAN (SHEET 2 OF 2)**

DRAWING NUMBER:

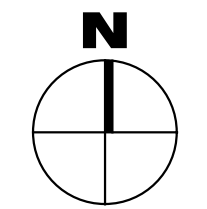


11/13/2020 5:56:28 PM  
S:\BRINGWALD\NEXT ERA\RILEY RD\DRAWINGS\CIVIL\C-200 - SITE PLANNING



SHEET C-101  
SHEET C-201  
SHEET C-501  
SHEET C-601  
  
SHEET C-102  
SHEET C-202  
SHEET C-502  
SHEET C-602

1 OVERALL SITE PLAN  
C200 SCALE: 1" = 150'



**SITE NOTES**

1. WELL COMPACTED SUBGRADE SHALL BE UTILIZED UNDERNEATH CONSTRUCTION OF PAVEMENT AND CONCRETE BASES.
2. ALL STAKEOUT FOR THE PROPOSED SITE IMPROVEMENTS SHALL BE COMPLETED BY A NEW YORK STATE LICENSED LAND SURVEYOR.
3. IF ANY DISCREPANCIES ARE NOTED BETWEEN THESE CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED OR AN ERROR IS SUSPECT, IT SHALL BE IMMEDIATELY REPORTED TO THE CONSTRUCTION MANAGER AND LABELLA ASSOCIATES PROJECT MANAGER IN WRITING.
4. ANY PROOF-ROILING OF EXPOSED SUBBASE BY A MINIMUM 10 TON SMOOTH DRUM ROLLER SHALL BE DONE UNDER THE GUIDANCE OF, AND OBSERVED BY, QUALIFIED ENGINEERING PERSONNEL PRIOR TO PLACEMENT OF SUBBASE MATERIAL. THE ROLLER SHOULD BE OPERATED IN THE STATIC MODE AND COMPLETE AT LEAST TWO (2) PASSES OVER THE EXPOSED SUBGRADES.

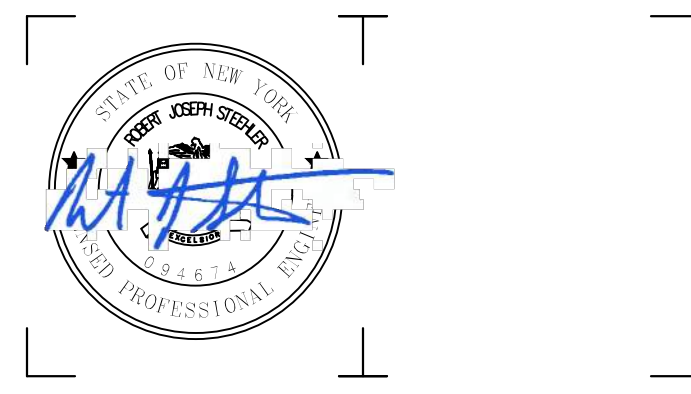
**GENERAL UTILITY NOTES:**

1. THE CONTRACTOR SHALL CONTACT DIG SAFE TO REQUEST A STAKEOUT PRIOR TO SOIL DISTURBANCE TO IDENTIFY LOCATION OF ALL EXISTING UTILITIES.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED ON THE DRAWINGS.

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		PERVIOUS GRAVEL PAVEMENT
		CHAIN LINK FENCE
		TREELINE
		PROPERTY LINE
		SETBACK LINE
		EASEMENT LINE
		OVERHEAD ELECTRIC LINE
		UNDERGROUND ELECTRIC LINE
		UTILITY POLE W/O LIGHT

300 State Street, Suite 201  
Rochester, NY 14614  
585-454-6110  
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**NEXTERA ENERGY**  
700 UNIVERSE BLVD.  
JUNO BEACH, FL 33408



**2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1**  
1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2201200.08		
DRAWN BY: JMA		
REVIEWED BY: DG		
ISSUED FOR: REVIEW		
DATE: NOVEMBER 2020		
DRAWING NAME:		

**OVERALL SITE PLAN**

DRAWING NUMBER:

**C200**





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JUNO BEACH, FL 33408



**2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1**  
1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2201200.08

DRAWN BY: JMA

REVIEWED BY: DG

ISSUED FOR: REVIEW

DATE: NOVEMBER 2020

DRAWING NAME:

**SITE PLAN**  
**(SHEET 1 OF 2)**

DRAWING NUMBER:

**C201**

**SITE NOTES**

- WELL COMPACTED SUBGRADE SHALL BE UTILIZED UNDERNEATH CONSTRUCTION OF PAVEMENT AND CONCRETE BASES.
- ALL STAKEOUT FOR THE PROPOSED SITE IMPROVEMENTS SHALL BE COMPLETED BY A NEW YORK STATE LICENSED LAND SURVEYOR.
- IF ANY DISCREPANCIES ARE NOTED BETWEEN THESE CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED OR AN ERROR IS SUSPECT, IT SHALL BE IMMEDIATELY REPORTED TO THE CONSTRUCTION MANAGER AND LABELLA ASSOCIATES PROJECT MANAGER IN WRITING.
- ANY PROOF-ROOFING OF EXPOSED SUBBASE BY A MINIMUM 10 TON SMOOTH DRUM ROLLER SHALL BE DONE UNDER THE GUIDANCE OF, AND OBSERVED BY, QUALIFIED ENGINEERING PERSONNEL PRIOR TO PLACEMENT OF SUBBASE MATERIAL. THE ROLLER SHOULD BE OPERATED IN THE STATIC MODE AND COMPLETE AT LEAST TWO (2) PASSES OVER THE EXPOSED SUBGRADES.

**GENERAL UTILITY NOTES:**

- THE CONTRACTOR SHALL CONTACT DIG SAFE TO REQUEST A STAKEOUT PRIOR TO SOIL DISTURBANCE TO IDENTIFY LOCATION OF ALL EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED ON THE DRAWINGS.

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		PERVIOUS GRAVEL PAVEMENT
		CHAIN LINK FENCE
		TREELINE
		PROPERTY LINE
		SETBACK LINE
		EASEMENT LINE
		OVERHEAD ELECTRIC LINE
		UNDERGROUND ELECTRIC LINE
		UTILITY POLE W/O LIGHT

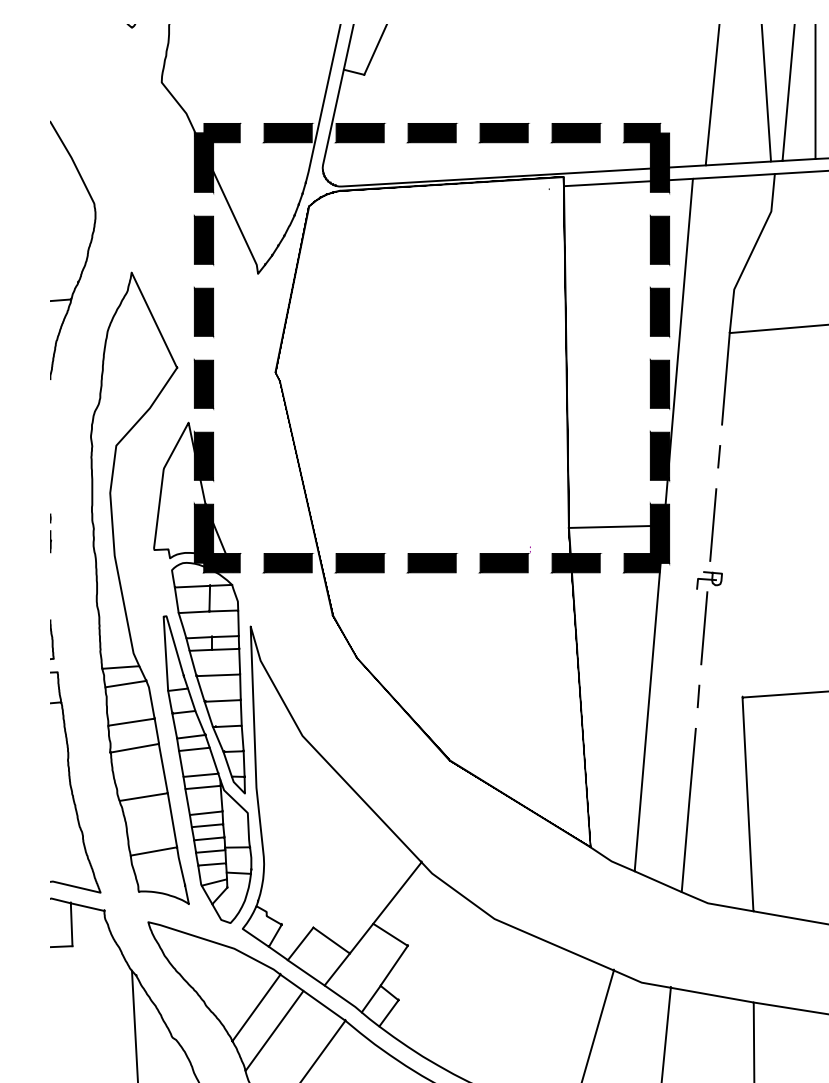
**QUANTITIES TABLE**

**SITE AND UTILITY QUANTITIES**

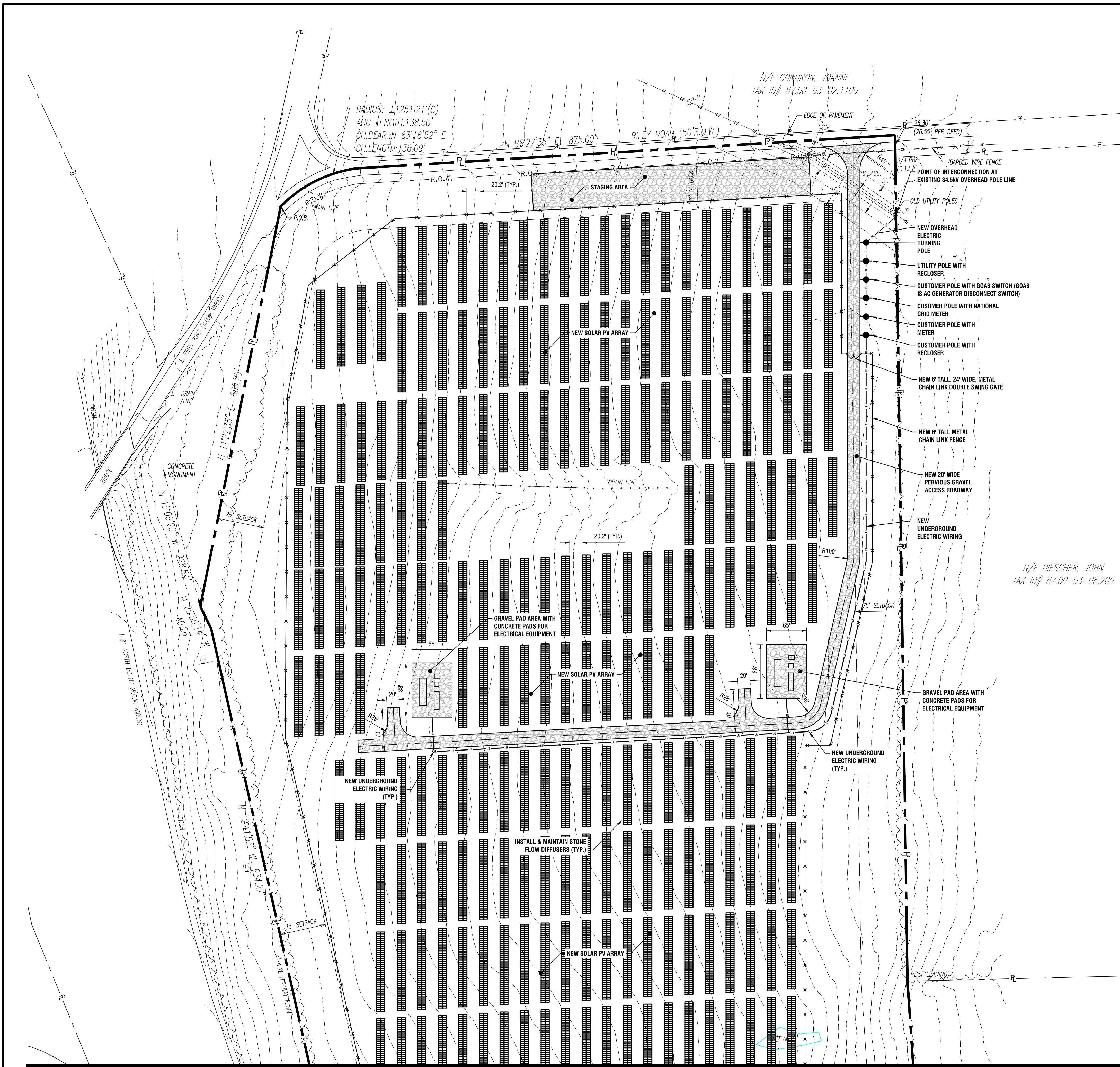
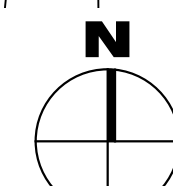
GRAVEL DRIVE	±37,085 SF
GRAVEL PAD	±9,700 SF
CONCRETE	±1,730 SF
6' TALL CHAIN LINK FENCING	±5,135 LF
12' CHAIN LINK DOUBLE SWING GATE	1
24' CHAIN LINK DOUBLE SWING GATE	1
UNDERGROUND ELECTRICAL WIRING	±1,390 LF
OVERHEAD ELECTRICAL WIRING	±215 LF
UTILITY POLES	6

**NOTE:**

QUANTITIES ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO VERIFY PROPOSED QUANTITIES BASED ON DESIGN PRIOR TO BID.

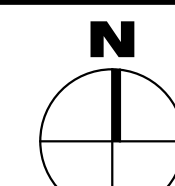


**1 KEY PLAN**  
SCALE: 1" = 750'

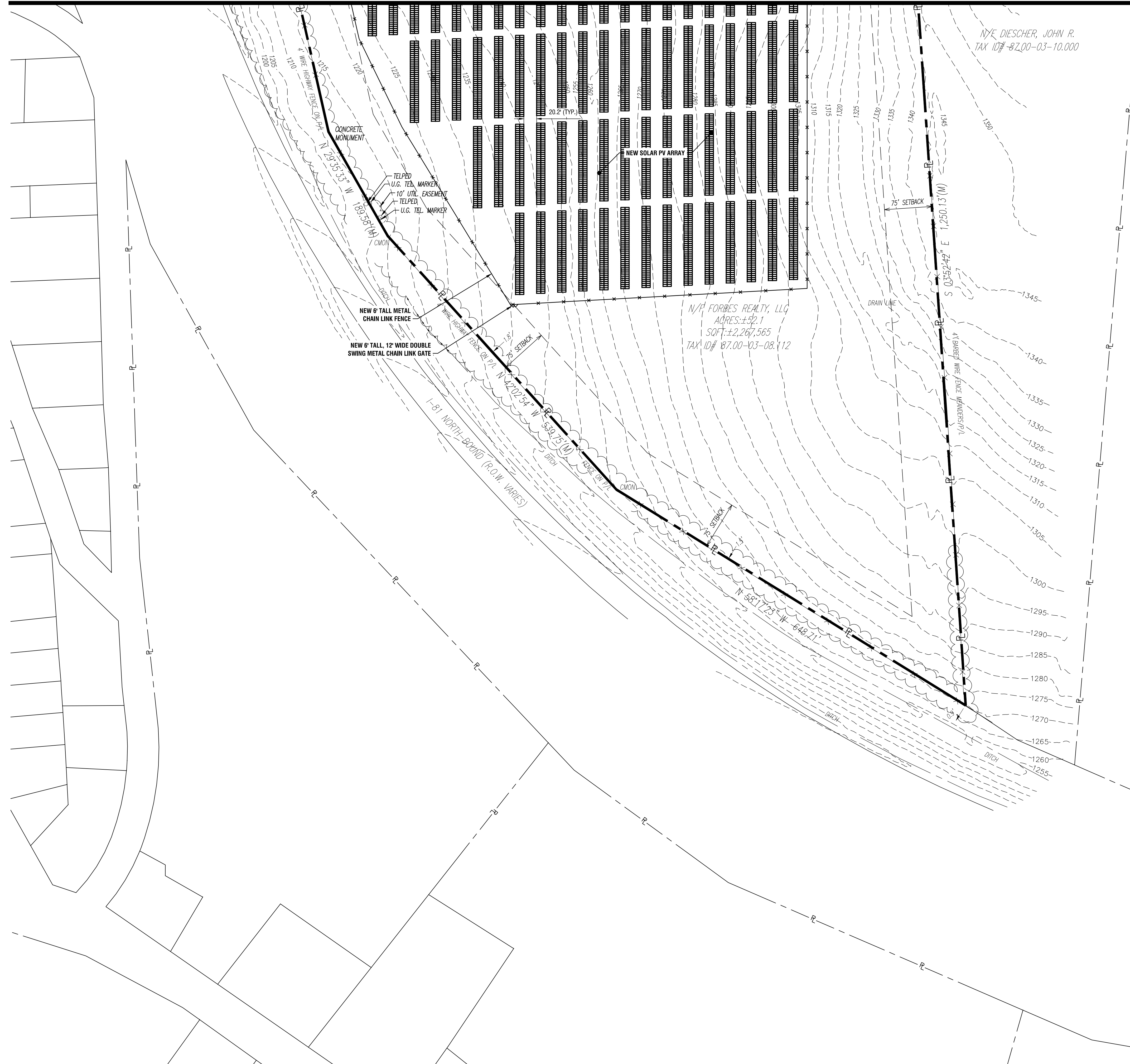


MATCH TO SHEET C-202

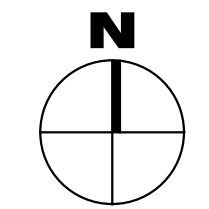
**2 SITE PLAN**  
SCALE: 1" = 80'







2 SITE PLAN  
SCALE: 1" = 80'



**SITE NOTES**

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**GENERAL UTILITY NOTES:**

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2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE NOTED ON THE DRAWINGS.

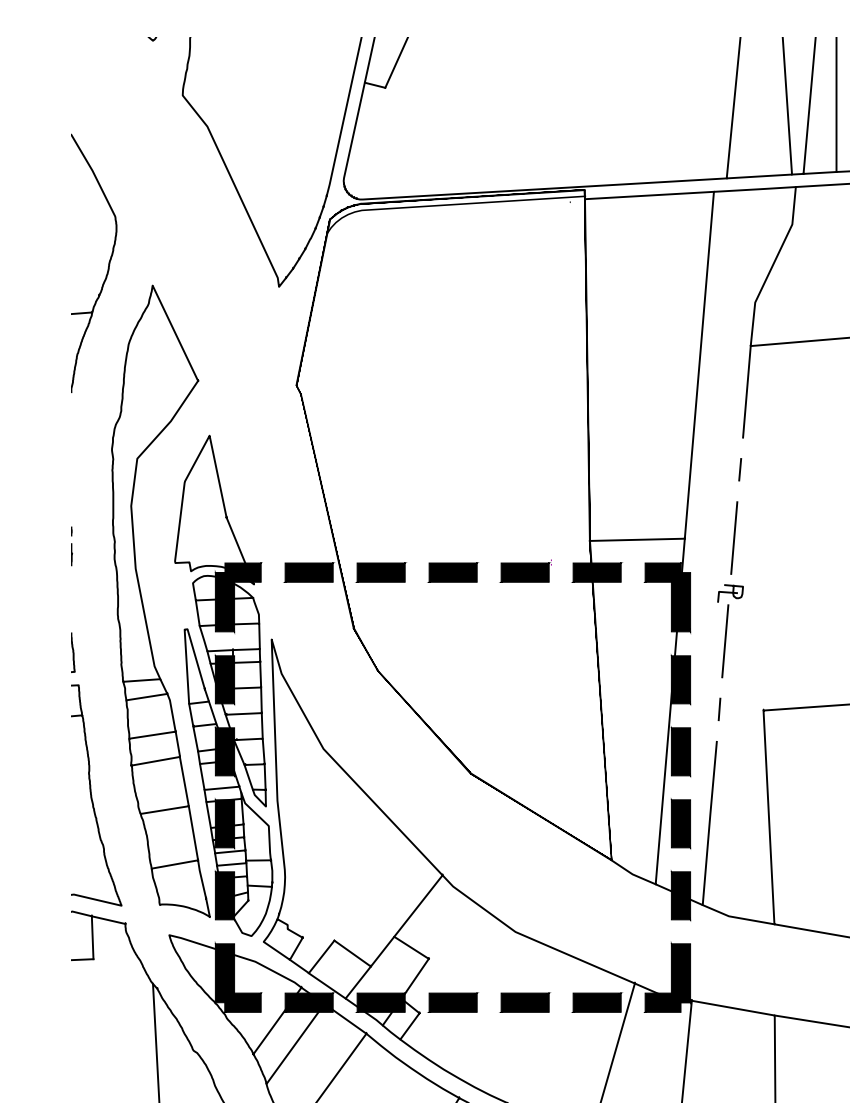
**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		PERVIOUS GRAVEL PAVEMENT
		CHAIN LINK FENCE
		TREELINE
		PROPERTY LINE
		SETBACK LINE
		EASEMENT LINE
		OVERHEAD ELECTRIC LINE
		UNDERGROUND ELECTRIC LINE
		UTILITY POLE W/O LIGHT

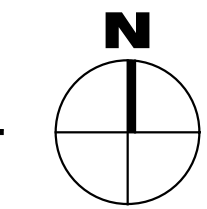
**QUANTITIES TABLE**

SITE AND UTILITY QUANTITIES	
GRAVEL DRIVE	±37,085 SF
GRAVEL PAD	±9,700 SF
CONCRETE	±1,730 SF
6' TALL CHAIN LINK FENCING	±5,135 LF
12' CHAIN LINK DOUBLE SWING GATE	1
24' CHAIN LINK DOUBLE SWING GATE	1
UNDERGROUND ELECTRICAL WIRING	±1,390 LF
OVERHEAD ELECTRICAL WIRING	±215 LF
UTILITY POLES	6

**NOTE:**  
QUANTITIES ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO VERIFY PROPOSED QUANTITIES BASED ON DESIGN PRIOR TO BID.



1 KEY PLAN  
SCALE: 1" = 750'



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JUNO BEACH, FL 33408



**2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1**  
1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2201200.08		
DRAWN BY: JMA		
REVIEWED BY: DG		
ISSUED FOR: REVIEW		
DATE: NOVEMBER 2020		
DRAWING NAME:		

**SITE PLAN (SHEET 2 OF 2)**

DRAWING NUMBER:

**C202**





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**2020 NY GREENFIELD PV  
DESIGN - RILEY ROAD 1**  
1902 RILEY RD.  
CORTLANDVILLE, NY 13045

**EROSION & SEDIMENT CONTROL NOTES**

- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND LOCAL GOVERNING SOIL AND WATER CONSERVATION AGENCY RECOMMENDATIONS AND STANDARDS. CONTRACTOR SHALL SUBMIT PROPOSED EROSION CONTROL PLAN INCLUDING SEQUENCING OF WORK TO THE ENGINEER FOR REVIEW PRIOR TO START OF WORK.
- UTILIZE CONSTRUCTION METHODS/TECHNIQUES, WHICH WILL LIMIT THE EXPOSED EARTHEN AREAS AND MINIMIZE THE EFFECT OF EARTH DISTURBANCE ACTIVITIES ON SOIL EROSION.
- RESTRICT DISTURBANCE TO UNDER 5 AC WITHOUT PRIOR WRITTEN APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- ALL SEDIMENTATION BARRIERS AND OTHER TEMPORARY OR PERMANENT MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. PLANS SHOW THE SUGGESTED MINIMUM MEASURES REQUIRED. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED IN THE FIELD AS NEEDED DEPENDING ON CONSTRUCTION SEQUENCE. LOCATIONS TO BE VERIFIED BY STORMWATER INSPECTOR.
- REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE COMPLETED AT THE APPROVAL OF THE OWNER AND ENGINEER. THE COST OF REMOVING THESE MEASURES SHALL ALSO BE INCLUDED IN THE BID PRICE.
- FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL PROTECT ALL ON-SITE, ADJACENT AND/OR DOWNSTREAM STORM/SANITARY SEWERS, AND/OR OTHER WATER COURSES FROM CONTAMINATION BY WATER BORNE SILTS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS OR OTHER POLLUTANTS ORIGINATING FROM ANY WORK DONE ON, OR IN SUPPORT OF THIS PROJECT.
- DURING CONSTRUCTION NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO STORM/SANITARY SEWERS, DITCHES OR OTHER WATERS OF NEW YORK STATE. NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY STORM/SANITARY SEWERS, DITCHES, RIVERS, OR WATER COURSES.
- ALL EXCAVATED OR IMPORTED EARTHEN STOCKPILES SHALL BE SUITABLY STABILIZED AND PROTECTED BY SILT FENCE SO THAT IT CANNOT REASONABLY ENTER ANY WATER BODY, OR STORM OR SANITARY SEWER.
- ALL METHODS AND EQUIPMENT PROPOSED BY THE CONTRACTOR TO ACCOMPLISH THE WORK FOR EROSION AND POLLUTION CONTROL SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER OR STORMWATER INSPECTOR.
- THE CONTRACTOR SHALL BE REQUIRED TO TREAT TRAVELED AREAS TO CONTROL DUST. WATER SHALL BE APPLIED TO SUCH TRAVELED AREAS AS THE ARCHITECT/ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE MAY DESIGNATE. THE NUMBER OF APPLICATIONS AND THE AMOUNT OF WATER SHALL BE BASED UPON FIELD AND WEATHER CONDITIONS.
- ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT WHICH WILL NOT BE SUBJECT TO FURTHER EARTHWORK OR CONSTRUCTION ACTIVITIES SHALL BE PERMANENTLY SEEDED TO ESTABLISH GRASS, AND MULCHED WITH HAY OR STRAW WITHIN ONE WEEK OF FINAL DISTURBANCE. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER IS ESTABLISHED.
- CONTRACTOR STAGING AREAS AND CONSTRUCTION ENTRANCE LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCE(S), AS SHOWN ON THE PLANS SHALL BE PROVIDED. ALL DISTURBED AREAS SHALL BE RESTORED.
- ALL CATCH BASINS/DRAINAGE INLETS SHALL HAVE EITHER STONED INLET PROTECTION AROUND THEM AND GEOTEXTILE FABRIC OVER THE GRATE OR SEDIMENT SOCKS TO PREVENT SEDIMENTATION FROM ENTERING THE STORM SYSTEM.

**QUANTITIES TABLE**

**EROSION CONTROL QUANTITIES**

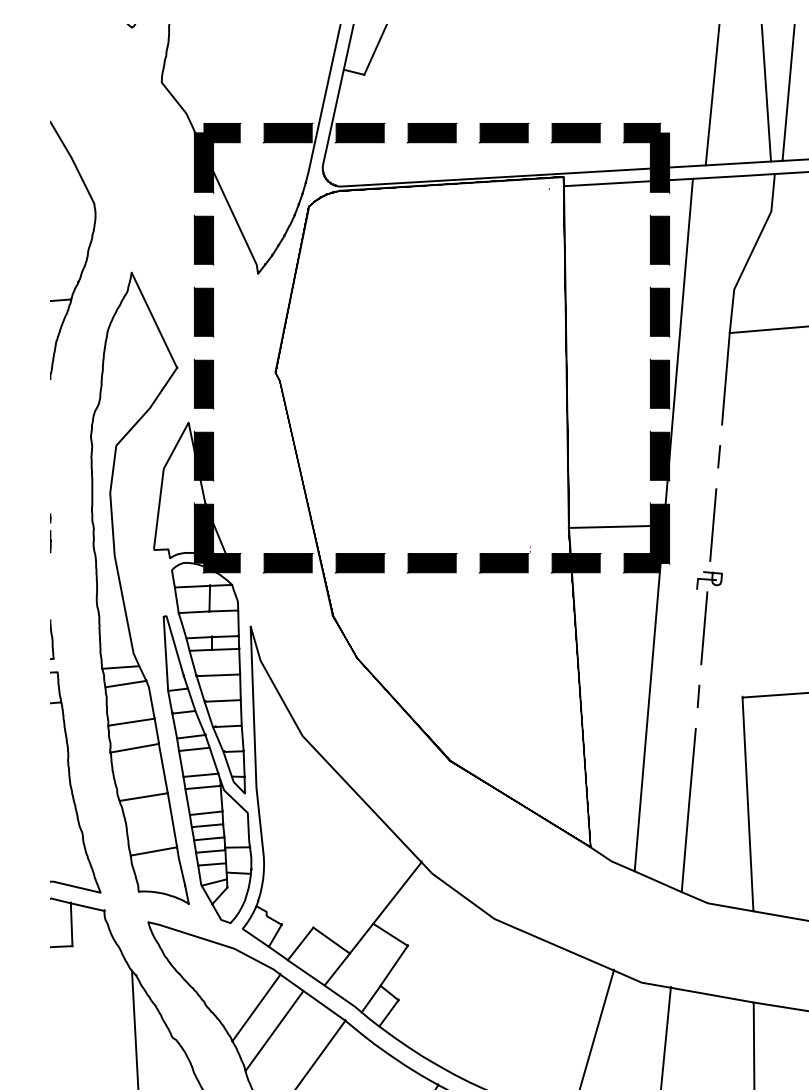
STABILIZED ENTRANCE GRAVEL	± 1,915 SF
SILT FENCE	± 2,090 LF
FILTER SOCK	± 2,0070 LF
CONCRETE WASHOUT	1
TOTAL DISTURBANCE AREA (AREA TO RECEIVE STRAW)	35.8 ACRES

**NOTE:**

QUANTITIES ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO VERIFY PROPOSED QUANTITIES BASED ON DESIGN PRIOR TO BID.

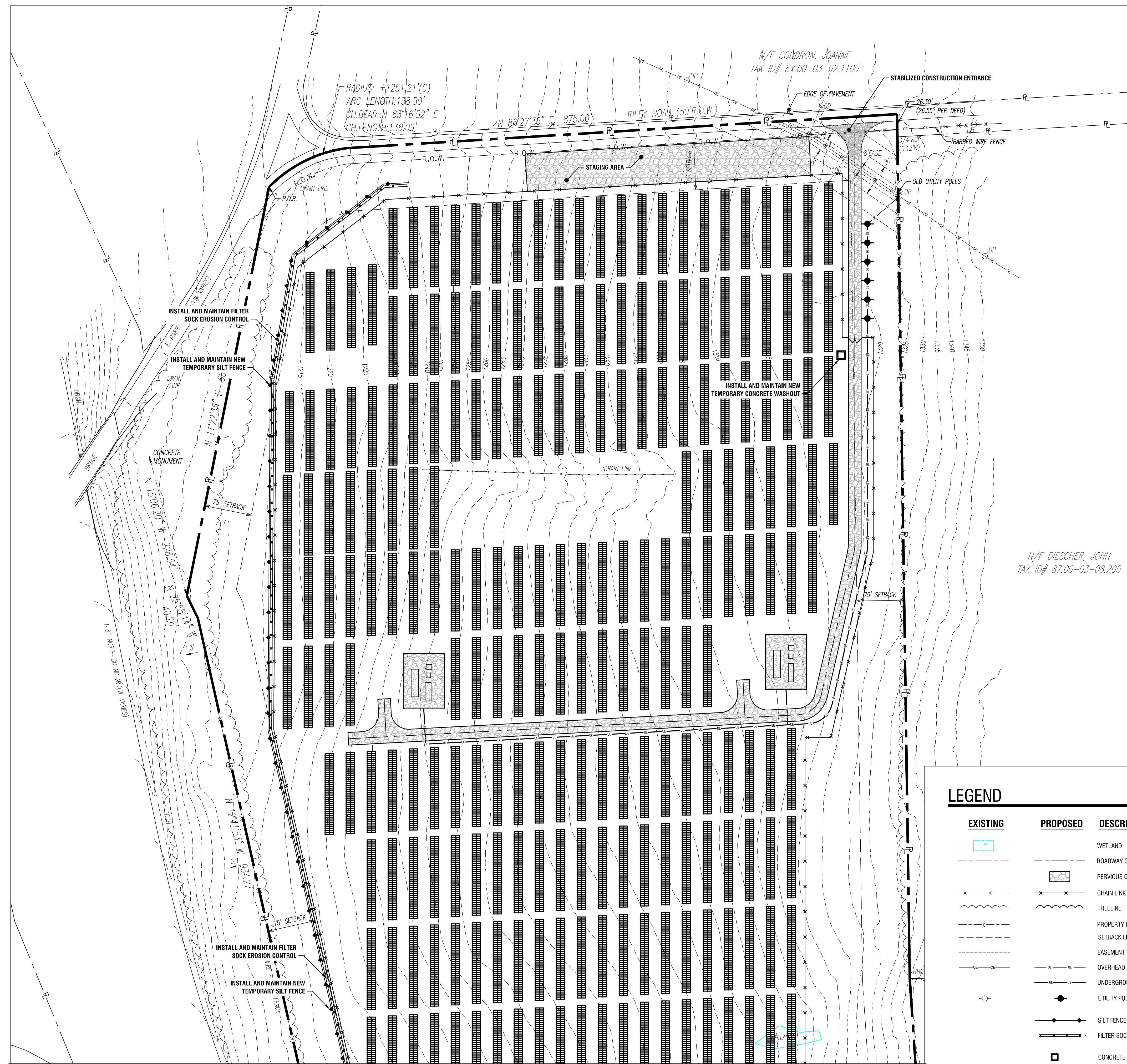
**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		PERVIOUS GRAVEL PAVEMENT
		CHAIN LINK FENCE
		TREELINE
		PROPERTY LINE
		SETBACK LINE
		EASEMENT LINE
		OVERHEAD ELECTRIC LINE
		UNDERGROUND ELECTRIC LINE
		UTILITY POLE W/O LIGHT
		SILT FENCE
		FILTER SOCK
		CONCRETE WASHOUT
		STABILIZED CONSTRUCTION ENTRANCE (TEMPORARY)



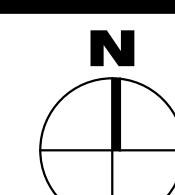
**KEY PLAN**

SCALE: 1" = 750'



MATCH TO SHEET C-502

2 EROSION & SEDIMENT CONTROL PLAN  
SCALE: 1" = 80'



**EROSION & SEDIMENT  
CONTROL PLAN  
(SHEET 1 OF 2)**

**C501**

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2201200.08

DRAWN BY: JMA

REVIEWED BY: DG

ISSUED FOR: REVIEW

DATE: NOVEMBER 2020

DRAWING NAME:





**EROSION & SEDIMENT CONTROL NOTES**

- ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND LOCAL GOVERNING SOIL AND WATER CONSERVATION AGENCY RECOMMENDATIONS AND STANDARDS. CONTRACTOR SHALL SUBMIT PROPOSED EROSION CONTROL PLAN INCLUDING SEQUENCING OF WORK TO THE ENGINEER FOR REVIEW PRIOR TO START OF WORK.
- UTILIZE CONSTRUCTION METHODS/TECHNIQUES, WHICH WILL LIMIT THE EXPOSED EARTHEN AREAS AND MINIMIZE THE EFFECT OF EARTH DISTURBANCE ACTIVITIES ON SOIL EROSION.
- RESTRICT DISTURBANCE TO UNDER 5 AC WITHOUT PRIOR WRITTEN APPROVAL FROM THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- ALL SEDIMENTATION BARRIERS AND OTHER TEMPORARY OR PERMANENT MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. PLANS SHOW THE SUGGESTED MINIMUM MEASURES REQUIRED. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED IN THE FIELD AS NEEDED DEPENDING ON CONSTRUCTION SEQUENCE. LOCATIONS TO BE VERIFIED BY STORMWATER INSPECTOR.
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- FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL PROTECT ALL ON-SITE, ADJACENT AND/OR DOWNSTREAM STORM/SANITARY SEWERS, AND/OR OTHER WATER COURSES FROM CONTAMINATION BY WATER BORNE SILTS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS OR OTHER POLLUTANTS ORIGINATING FROM ANY WORK DONE ON, OR IN SUPPORT OF THIS PROJECT.
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- ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT WHICH WILL NOT BE SUBJECT TO FURTHER EARTHWORK OR CONSTRUCTION ACTIVITIES SHALL BE PERMANENTLY SEEDING TO ESTABLISH GRASS, AND MULCHED WITH HAY OR STRAW WITHIN ONE WEEK OF FINAL DISTURBANCE. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER IS ESTABLISHED.
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- ALL CATCH BASINS/DRAINAGE INLETS SHALL HAVE EITHER STONED INLET PROTECTION AROUND THEM AND GEOTEXTILE FABRIC OVER THE GRATE OR SEDIMENT SOCKS TO PREVENT SEDIMENTATION FROM ENTERING THE STORM SYSTEM.

**QUANTITIES TABLE**

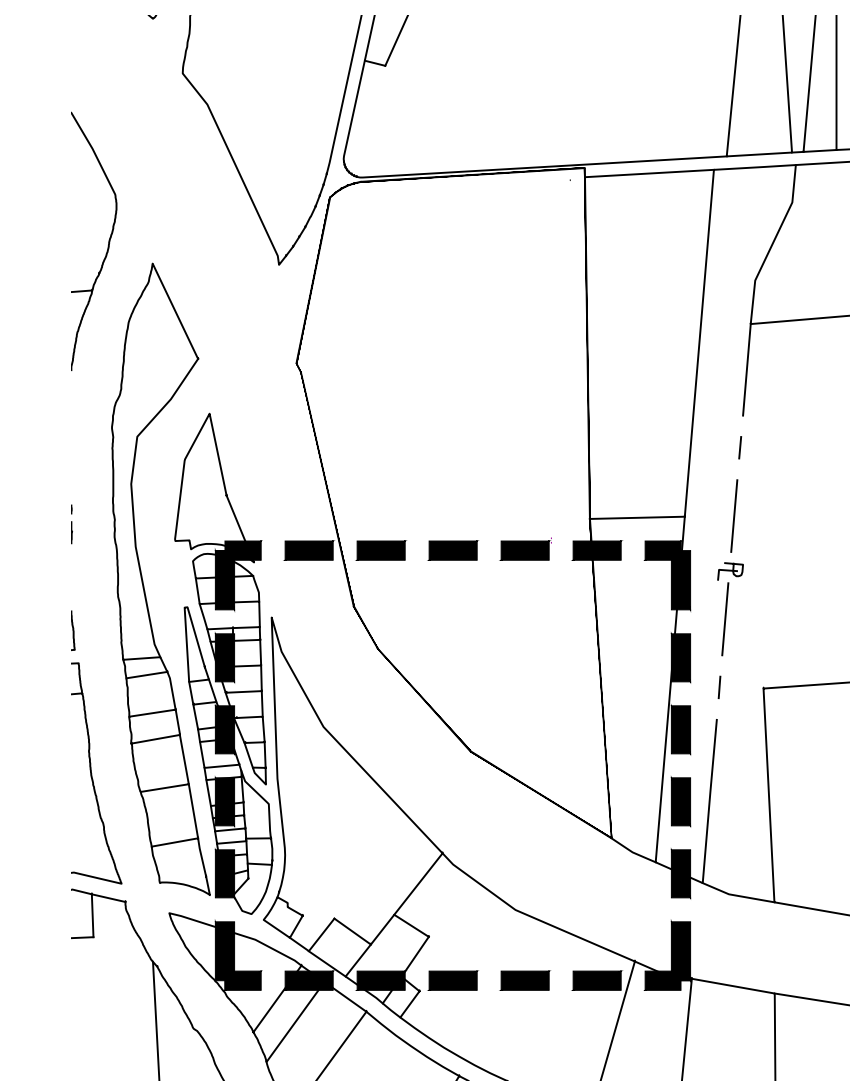
EROSION CONTROL QUANTITIES	
STABILIZED ENTRANCE GRAVEL	± 1,915 SF
SILT FENCE	± 2,090 LF
FILTER SOCK	± 2,0070 LF
CONCRETE WASHOUT	1
TOTAL DISTURBANCE AREA (AREA TO RECEIVE STRAW)	35.8 ACRES

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**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		PERVIOUS GRAVEL PAVEMENT
		CHAIN LINK FENCE
		TREELINE
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		UNDERGROUND ELECTRIC LINE
		UTILITY POLE W/O LIGHT
		SILT FENCE
		FILTER SOCK
		CONCRETE WASHOUT
		STABILIZED CONSTRUCTION ENTRANCE (TEMPORARY)



2 EROSION & SEDIMENT CONTROL PLAN  
SCALE: 1" = 80'

1 KEY PLAN  
SCALE: 1" = 750'

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Rochester, NY 14614  
585-454-6110

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700 UNIVERSE BLVD.  
JUNO BEACH, FL 33408



**2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1**  
1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2201200.08
DRAWN BY:		JMA
REVIEWED BY:		DG
ISSUED FOR:		REVIEW
DATE:		NOVEMBER 2020
DRAWING NAME:		

**EROSION & SEDIMENT CONTROL PLAN (SHEET 2 OF 2)**

DRAWING NUMBER:





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**2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1**  
1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2201200.08

DRAWN BY:

REVIEWED BY:

ISSUED FOR:

REVIEW

DATE: NOVEMBER 2020

DRAWING NAME:

**LANDSCAPING PLAN**  
**(SHEET 1 OF 2)**

DRAWING NUMBER:

**C601**

**LANDSCAPING NOTES**

- ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK BY AMERICAN ASSOCIATION OF NURSEYMEN, ANSI Z60.1.
- REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE MISSING, DEAD, OR DO NOT DEVELOP FROM PLANTING STOCK OR AS DETERMINED BY THE CLIENT ARE IN UNHEALTHY OR UNSIGHTLY CONDITION, AND HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES OR OTHER CAUSES DUE TO THE CONTRACTORS NEGLIGENCE. CONTRACTOR SHALL BEAR THE COST OF COMPLETE REPLACEMENT(S), IN CASE OF ANY QUESTIONS REGARDING THE CONDITION AND SATISFACTORY ESTABLISHMENT OF A REJECTED PLANT, THE LANDSCAPE ARCHITECT'S DECISION IS FINAL. PROVIDE A GUARANTEE FOR ALL REPLACEMENT PLANTS FOR AT LEAST ONE FULL GROWING SEASON.
- REMOVE AND IMMEDIATELY REPLACE ALL PLANTS, AS DETERMINED BY THE CLIENT TO BE UNSATISFACTORY DURING THE INITIAL PLANTING INSTALLATION.
- SHRUBS SHALL MEET THE REQUIREMENTS FOR HEIGHT INDICATED IN THE PLANT LIST. THE MEASUREMENTS FOR HEIGHT SHALL BE TAKEN FROM THE GROUND LEVEL TO THE AVERAGE HEIGHT OF THE TOP BRANCHES OF THE PLANT, AND NOT THE LONGEST BRANCH. SINGLE STEMMED OR THIN PLANTS WILL NOT BE ACCEPTED. SIDE BRANCHES SHALL BE GENEROUS, WELL TWIGGED, AND THE PLANT AS A WHOLE WELL SEATED IN THE GROUND. PLANTS SHALL BE IN A MOIST, VIGOROUS CONDITION, FREE FROM DEAD WOOD, BRUISES, OR OTHER ROOT OR BRANCH INJURIES.
- A ONE YEAR GUARANTEE SHALL BE PROVIDED FOR ALL NEW AND RELOCATED PLANT MATERIALS FROM DATE OF FINAL ACCEPTANCE TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF.
- THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKE OUT OF ALL PLANT MATERIAL AND SHRUB BEDS. CONTACT THE ENGINEER FOR INSPECTION AND APPROVAL. LOCATIONS SHOWN ON THE PLAN CONVEY DESIGN INTENT ONLY. ACTUAL LOCATIONS WILL BE AS DIRECTED BY THE ENGINEER AT THE TIME OF INSTALLATION.
- NAMES OF WOODY PLANT MATERIAL MUST COMPLY WITH "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. PROVIDE STOCK TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED.
- SHOULD LOCATION OF TREES BE WITHIN 5' OF UNDERGROUND UTILITIES, RELOCATE SAID TREES TO MIN. OF 5' FROM ROOT BALL TO UTILITIES.
- SHOULD LOCATIONS OF TREES OF LARGER SPECIES BE WITHIN 20' OF OVERHEAD WIRES, RELOCATE SAID TREES TO MIN. OF 20' TO WIRES.
- STAKE AND WRAP TREES IMMEDIATELY AFTER PLANTING. STAKES AND WRAPPING ARE TO BE REMOVED BY THE CONTRACTOR AT THE END OF THE GUARANTEE PERIOD.
- MULCH ALL TREES AND SHRUB BEDS WITH 3" DOUBLE GROUND HARDWOOD BAR. COLOR: DARK BROWN. "RIVER STONE" SURFACE SHALL BE SMOOTH, WASHED, GRADED GRAVEL, 1" TO 2" SIZE. PLACE ON FIBER MAT WEED BARRIER: MIRAFI 100X OR EQUAL.
- PLANTING BACK FILL MIXTURE: 4 PARTS TOP SOIL; 1 PART PEAT MOSS; 1/2 PART WELL ROTTED MANURE; 10 LBS. 5-10-5 PLANTING FERTILIZER THOROUGHLY MIXED PER CUBIC YARD.
- TOPSOIL SHALL BE FURNISHED FROM THE STOCKPILED ON-SITE MATERIAL. ON-SITE MATERIAL IS TO BE MECHANICALLY SCREENED. ANYTHING LARGER THAN 0.5" SHALL BE REMOVED AND DISPOSED. IF AN INSUFFICIENT QUANTITY EXISTS, FURNISH FROM OFF-SITE SOURCES IN QUANTITIES SUFFICIENT TO COMPLETE THE REQUIREMENTS AS SPECIFIED. TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE SOIL, CHARACTERISTIC OF PRODUCTIVE SOIL IN THE VICINITY, FREE FROM STONES, CLAY LUMPS, ROOTS AND OTHER FOREIGN MATTER WITH AN ACIDITY BETWEEN 6.0 AND 6.8 pH. PROPOSED TOPSOIL MATERIAL FROM OFF-SITE SOURCES SHALL BE MECHANICALLY SCREENED SUBJECT TO APPROVAL BY THE ENGINEER.
- A MINIMUM OF 6" OF MECHANICALLY SCREENED TOPSOIL SHALL BE PROVIDED ON ALL AREAS TO BE SEEDED.
- LAWN SEED MIXTURE**- APPLY TO ALL AREAS NOT PAVED, PLANTED, DESIGNATED TO REMAIN NATURAL OR OTHERWISE SEEDED. MIX SHALL CONSIST OF THE FOLLOWING.
 

	% WEIGHT	% PURITY	% GERMINATION
KEYSTONE PERENNIAL RYEGRASS	25	85	85
CHARISMATIC PERENNIAL RYEGRASS	25	85	85
CINDY LOU CREEPING RED FESCUE	20	85	80
COMMON KENTUCKY BLUEGRASS	30	97	80

SEEDING RATE: 200 LBS. PER ACRE  
FERTILIZER: 18-24-3 GRANULAR RATE: 1,000 LBS. PER ACRE  
MULCH ALL SEEDED AREAS WITH APPROVED STRAW AT A RATE OF 4,000 LBS. PER ACRE.
- POLLINATOR/WILDFLOWER/LOW GROW MAINTENANCE SEED MIXTURE**- APPLY TO ALL DESIGNATED AREAS ONLY. THE MIXTURE SHALL CONSIST OF THE FOLLOWING.
 

35% FIREFLY HARD FESCUE
20% INTRIGUE CHEWINGS FESCUE
20% EUREKA 1 HARD FESCUE
10% MINOTAUR HARD FESCUE
15% XERCES NORTHEASTERN POLLINATOR MK. ERNST-179, ERNST SEEDS, MEADVILLE, PA

SEEDING RATE: 50 LBS. PER ACRE  
FERTILIZER: 28-4-12 GRANULAR RATE: 1,000 LBS. PER ACRE  
MULCH ALL SEEDED AREAS WITH APPROVED STRAW AT A RATE OF 4,000 LBS. PER ACRE.
- LANDSCAPE MATERIALS SHALL BE INSTALLED BY LOCAL COMPANIES FAMILIAR WITH THE CONDITIONS IN THIS AREA THAT EMPLOY NYS CERTIFIED NURSERY PROFESSIONALS.
- STAKE PLANTS AS INDICATED OR AS APPROVED IN THE FIELD. IF OBSTRUCTIONS ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS, DO NOT PROCEED PLANTING OPERATIONS UNTIL ALTERNATIVE PLANT LOCATIONS HAVE BEEN SELECTED.
- MAINTAIN PLANTS UNTIL COMPLETION AND FINAL ACCEPTANCE OF THE ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE PRUNING, CULTIVATING, EDGING, REMULCHING, FERTILIZING, WEEDING, WATERING AS REQUIRED FOR HEALTHY GROWTH, AND APPLICATION OF APPROPRIATE INSECTICIDES AND FUNGICIDES NECESSARY TO MAINTAIN PLANTS FREE OF INSECT AND DISEASE. RESET SETTLED PLANTS TO PROPER GRADE AND POSITION. RESTORE PLANTING SAUCER AND REMOVE DEAD MATERIAL. TIGHTEN AND REPAIR GUIDE WIRES AND DEFICIENCIES WITHIN THE FIRST 24 HOURS OF INITIAL PLANTING, AND NOT LESS THAN TWICE PER WEEK UNTIL FINAL ACCEPTANCE.
- FINAL LOCATION OF TREES AND OTHER LANDSCAPING SHALL BE DETERMINED IN THE FIELD BASED ON UTILITY STAKEOUT. LANDSCAPING SHALL BE PLACED SO AS NOT TO CONFLICT WITH UTILITIES.

**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		GRAVEL PAVEMENT
		CHAIN LINK FENCE
		TREELINE
		BUILDING/STRUCTURE
		PROPERTY LINE
		SETBACK LINE
		TREE
		END SECTION
		UTILITY POLE W/O LIGHT
		LAWN SEED MIX
		WILDFLOWER/ POLLINATOR SEED MIX

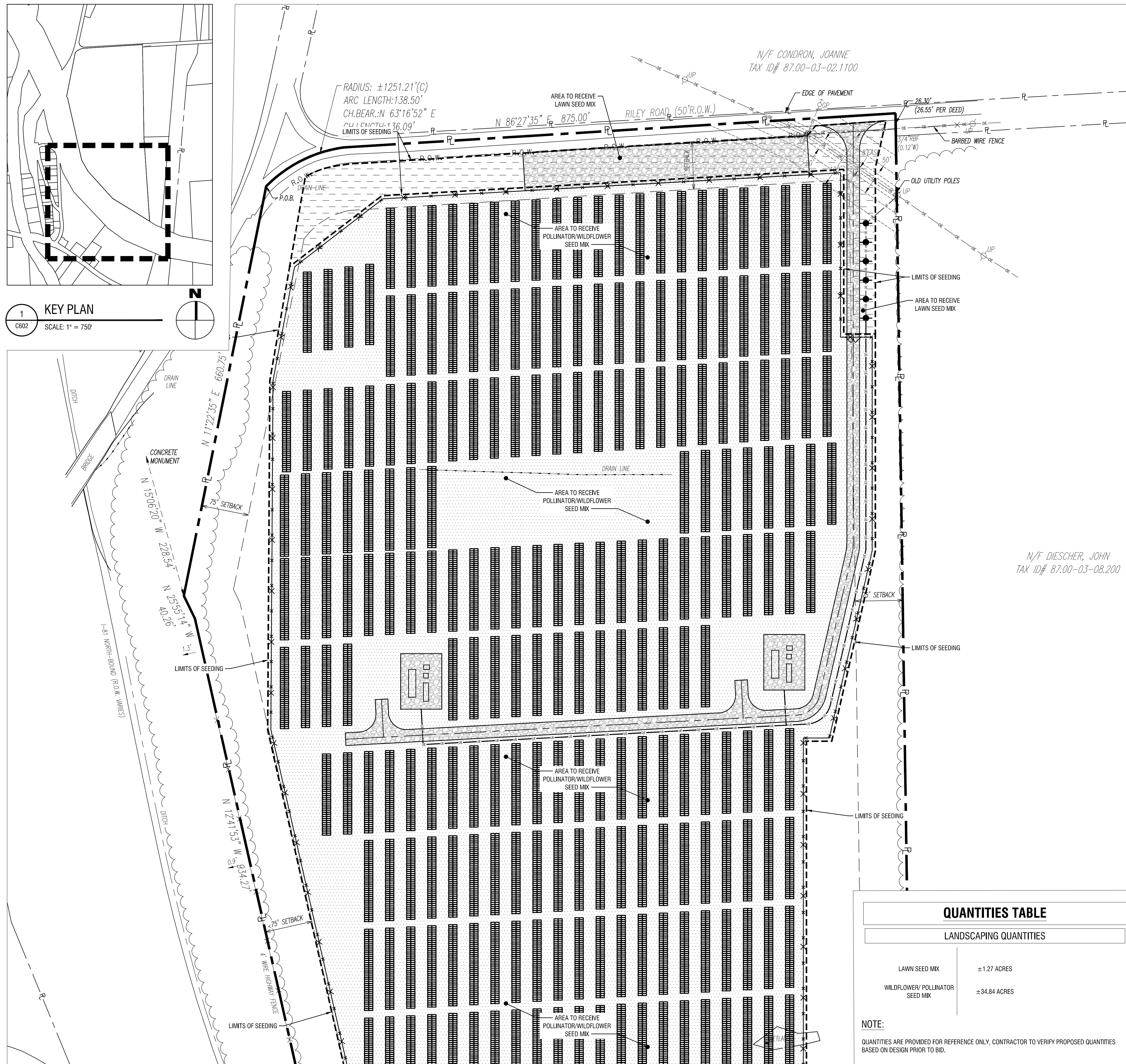
**QUANTITIES TABLE**

**LANDSCAPING QUANTITIES**

LAWN SEED MIX	± 1.27 ACRES
WILDFLOWER/ POLLINATOR SEED MIX	± 34.84 ACRES

**NOTE:**

QUANTITIES ARE PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO VERIFY PROPOSED QUANTITIES BASED ON DESIGN PRIOR TO BID.



**KEY PLAN**

SCALE: 1" = 750'

1 C602

SCALE: 1" = 80'

2 C601

SCALE: 1" = 80'

LANDSCAPING PLAN

11/13/2020 6:03:38 PM

S:\BIRGENWALD\PROJECT FRANKLEY RD\DRAWINGS\CIVIL\C601 - LANDSCAPING PLAN.DWG

MATCH TO SHEET C-602

11/13/2020 6:03:38 PM

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MATCH TO SHEET C-602

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MATCH TO SHEET C-602

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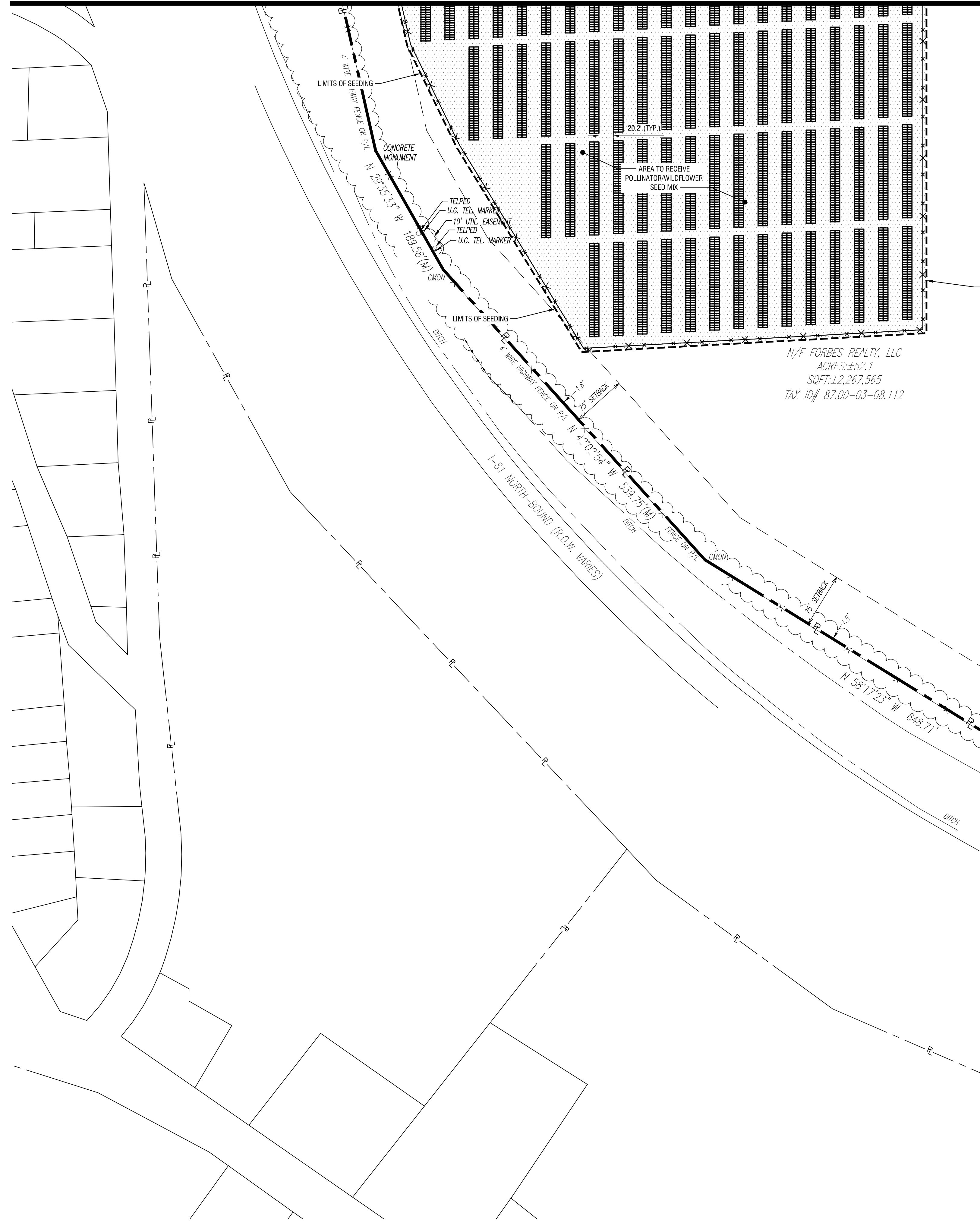
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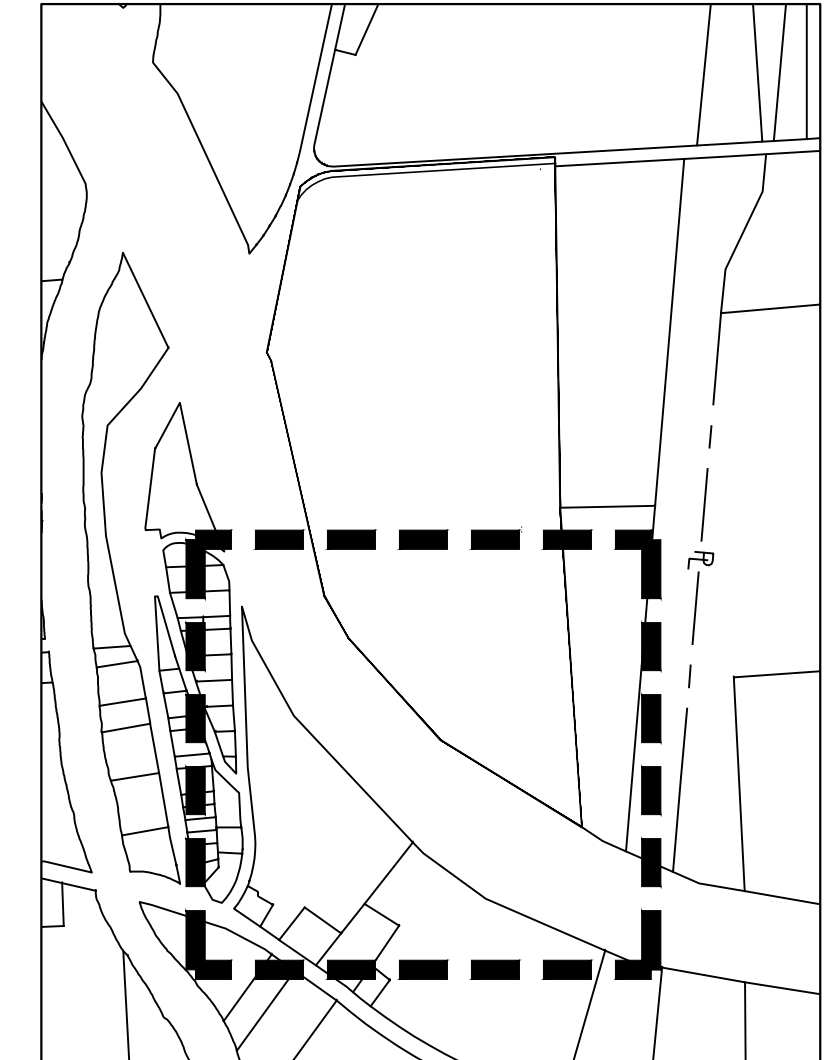
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N/F DIESCHER, JOHN R.  
TAX ID# 87.00-03-10.000

N/F FORBES REALTY, LLC  
ACRES: ±52.1  
SQFT: ±2,267,565  
TAX ID# 87.00-03-08.112



1 KEY PLAN  
SCALE: 1" = 750'

QUANTITIES TABLE

LANDSCAPING QUANTITIES	
LAWN SEED MIX	±1.27 ACRES
WILDFLOWER/ POLLINATOR SEED MIX	±34.84 ACRES

NOTE:  
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2 LANDSCAPING PLAN  
SCALE: 1" = 80'

LANDSCAPING NOTES

- ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK BY AMERICAN ASSOCIATION OF NURSERYMEN, ANSI Z60.1.
- REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE MISSING, DEAD, OR DO NOT DEVELOP FROM PLANTING STOCK, OR AS DETERMINED BY THE CLIENT ARE IN UNHEALTHY OR UNSIGHTLY CONDITION, AND HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES OR OTHER CAUSES DUE TO THE CONTRACTORS NEGLIGENCE. CONTRACTOR SHALL BEAR THE COST OF COMPLETE REPLACEMENT(S), IN CASE OF ANY QUESTIONS REGARDING THE CONDITION AND SATISFACTORY ESTABLISHMENT OF A REJECTED PLANT, THE LANDSCAPE ARCHITECT'S DECISION IS FINAL. PROVIDE A GUARANTEE FOR ALL REPLACEMENT PLANTS FOR AT LEAST ONE FULL GROWING SEASON.
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- SHOULD LOCATIONS OF TREES OF LARGER SPECIES BE WITHIN 20' OF OVERHEAD WIRES, RELOCATE SAID TREES TO MIN. OF 20' TO WIRES.
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COMMON KENTUCKY BLUEGRASS	30	97	80
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35% FIREFLY HARD FESCUE
20% INTRIGUE CHEWINGS FESCUE
20% EUREKA II HARD FESCUE
10% MINOTAUR HARD FESCUE
15% XERCES NORTHEASTERN POLLINATOR MIX. ERNST-179, ERNST SEEDS, MEADVILLE, PA
- SEEDING RATE: 50 LBS. PER ACRE  
FERTILIZER: 28-4-12 GRANULAR RATE: 1,000 LBS. PER ACRE  
MULCH ALL SEEDED AREAS WITH APPROVED STRAW AT A RATE OF 4,000 LBS. PER ACRE.
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LEGEND

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		GRAVEL PAVEMENT
		CHAIN LINK FENCE
		TREELINE
		BUILDING/STRUCTURE
		PROPERTY LINE
		SETBACK LINE
		TREE
		END SECTION UTILITY POLE W/O LIGHT
		LAWN SEED MIX
		WILDFLOWER/ POLLINATOR SEED MIX

300 State Street, Suite 201  
Rochester, NY 14614  
585-454-6110

labellapp.com



It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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NEXTERA ENERGY  
700 UNIVERSE BLVD.  
JUNO BEACH, FL 33408



2020 NY GREENFIELD PV  
DESIGN - RILEY ROAD 1  
1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2201200.08

DRAWN BY:

REVIEWED BY:

ISSUED FOR: REVIEW

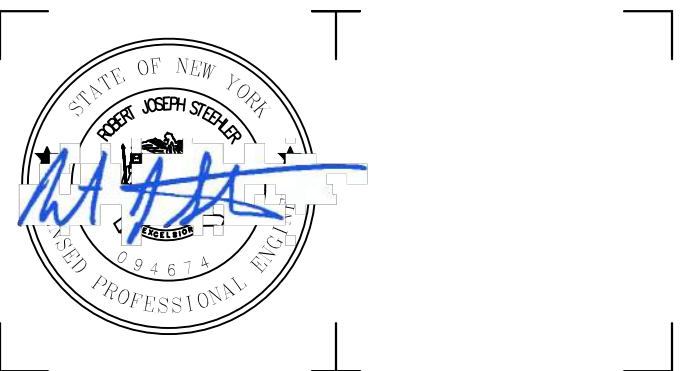
DATE: NOVEMBER 2020

DRAWING NAME:

LANDSCAPING PLAN  
(SHEET 2 OF 2)

DRAWING NUMBER:





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**NEXT ERA ENERGY**  
700 UNIVERSE BLVD.  
JUNO BEACH, FL 33408



**2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1**  
1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 2201200.08

DRAWN BY: BER

REVIEWED BY: DG

ISSUED FOR: REVIEW

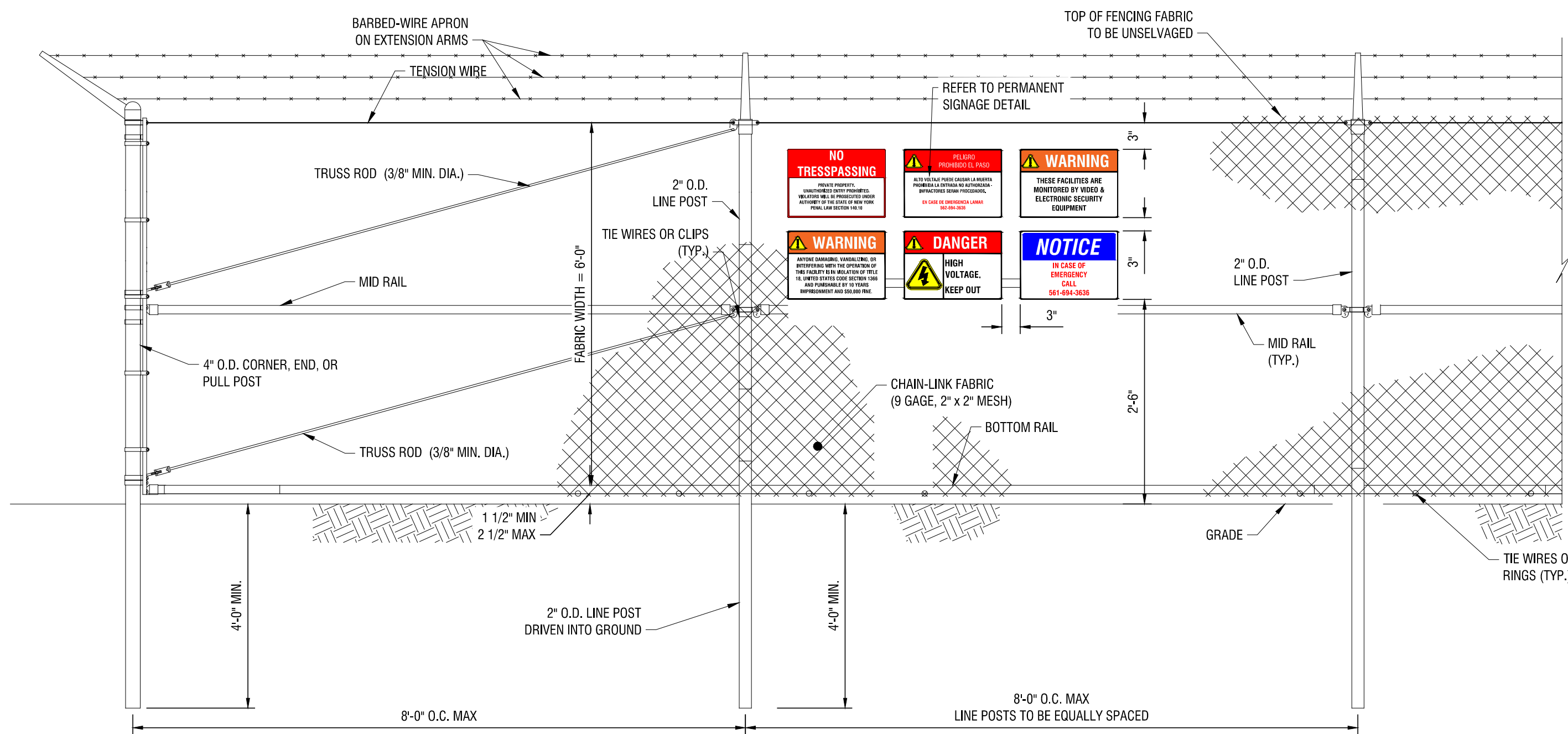
DATE: NOVEMBER 2020

DRAWING NAME:

**CONSTRUCTION DETAILS**

DRAWING NUMBER:

**C701**

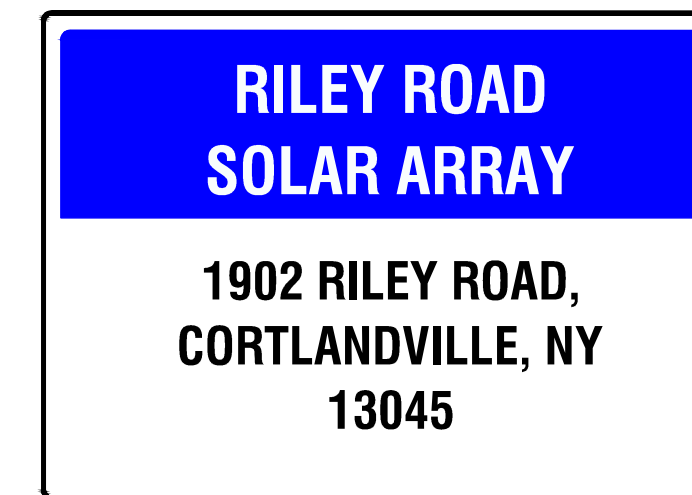
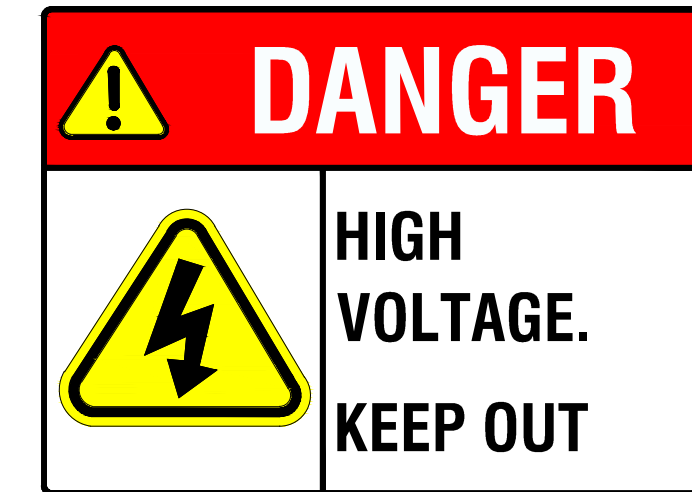


**NOTES:**

1. SIGNS SHALL BE INSTALLED IN GROUPS EVERY 300'.

**4 6' HIGH BARBED WIRE HIGH SECURITY FENCE (IN WETLANDS)**

C-701 N.T.S.

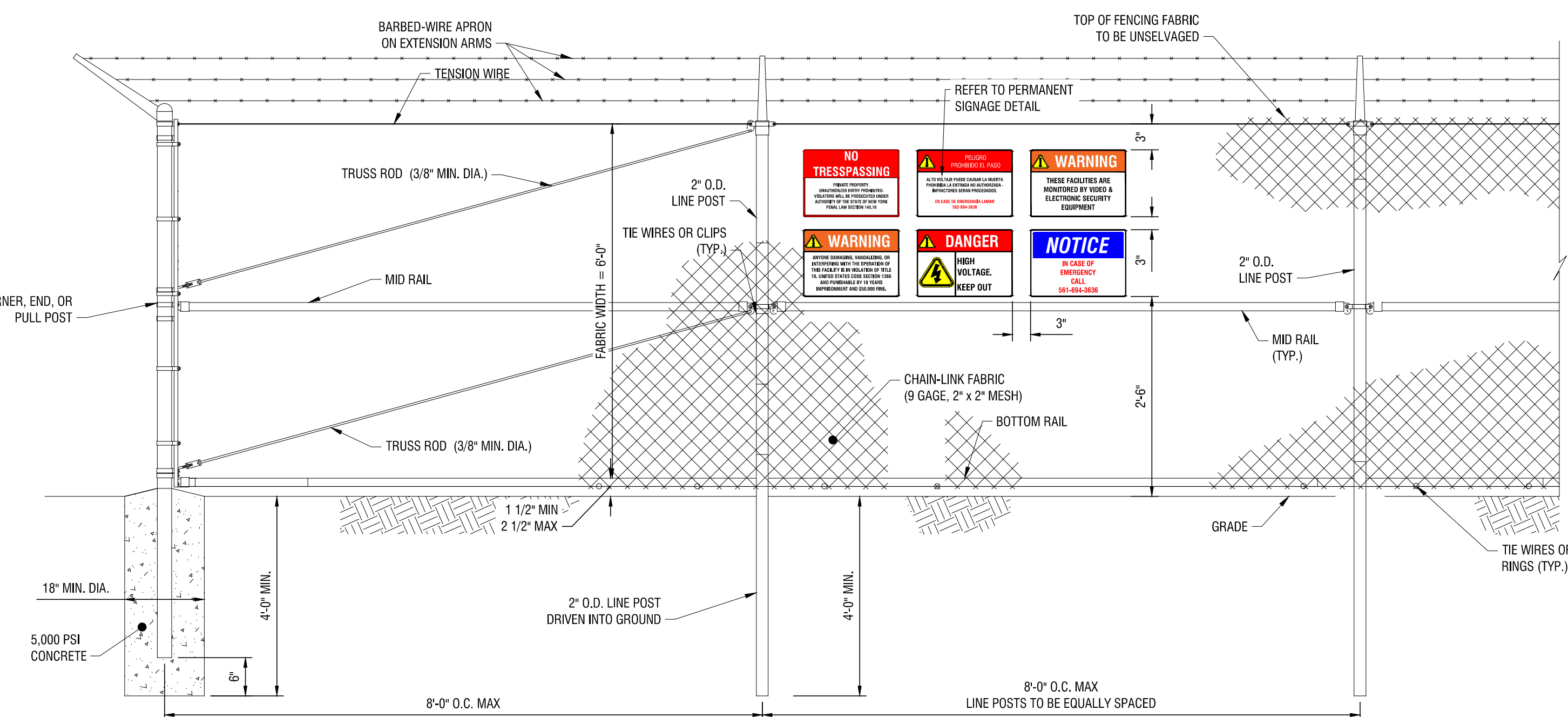


**NOTES:**

1. ALL SIGNS TO BE 18" x 24" IN SIZE.
2. SIGNS SHALL BE UV RESISTANT AND IN COLOR. SIGN MATERIAL SHALL BE HDPE OR LIGHT GAGE GALVANIZED STEEL.
3. SIGNS TO BE ATTACHED TO FENCING WITH PERMANENT FASTENERS.

**3 PERMANENT SIGNAGE**

C-701 N.T.S.

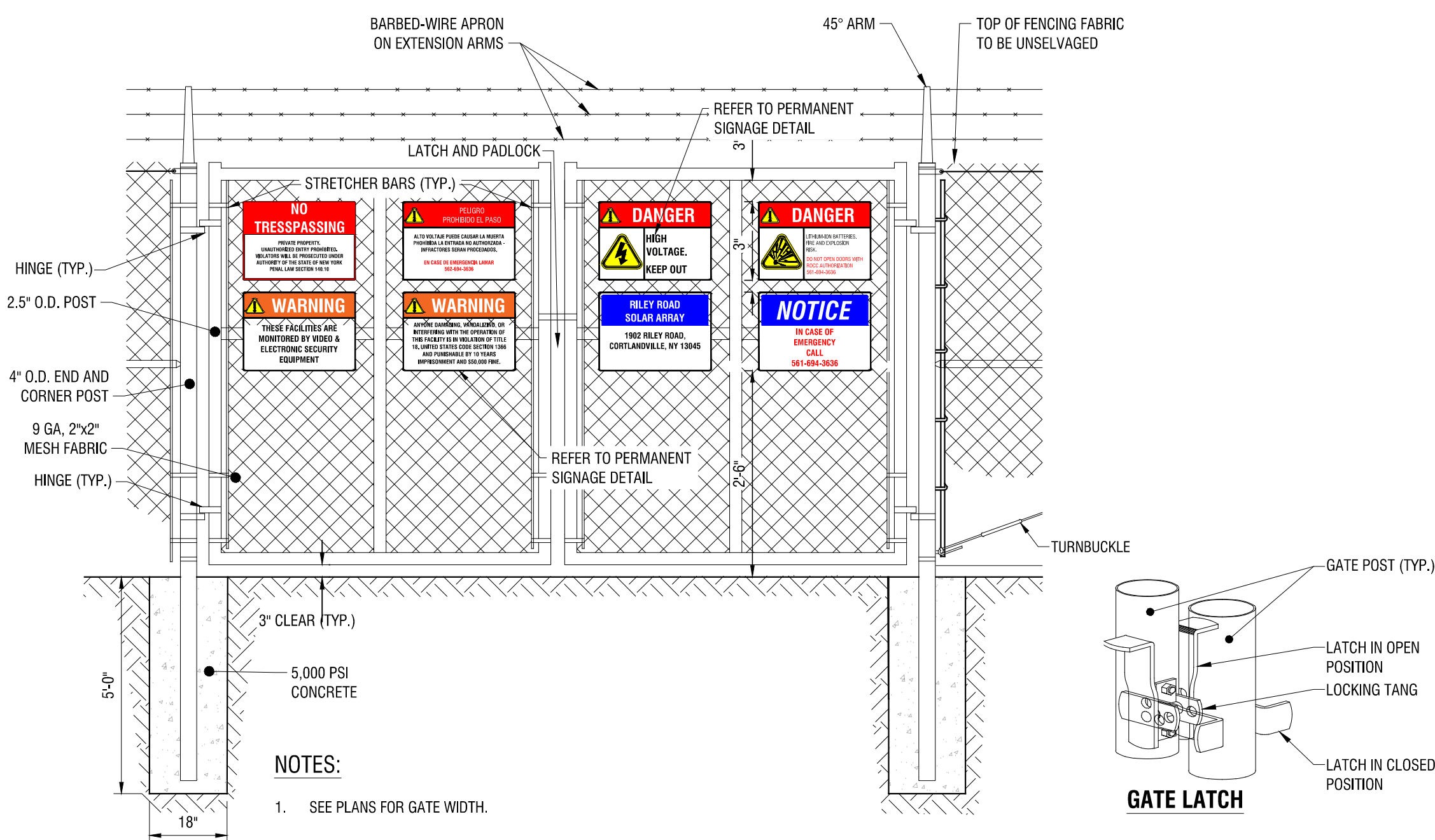


**NOTES:**

1. SIGNS SHALL BE INSTALLED IN GROUPS EVERY 300'.

**1 6' HIGH BARBED WIRE HIGH SECURITY FENCE**

C-701 N.T.S.



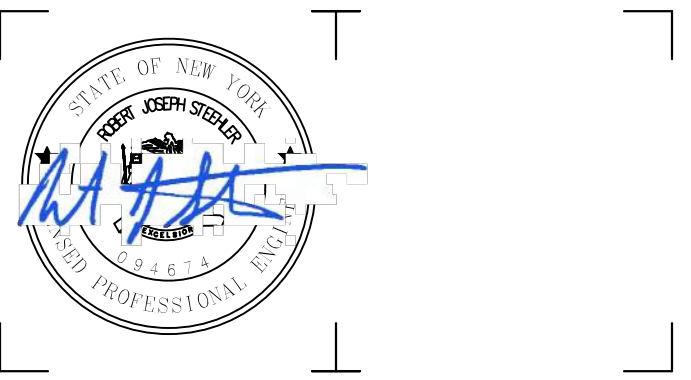
**NOTES:**

1. SEE PLANS FOR GATE WIDTH.

**2 6' TALL WIDE DOUBLE SWING GATE**

C-701 N.T.S.





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**NEXT ERA ENERGY**

700 UNIVERSE BLVD.  
JUNO BEACH, FL 33408



**2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1**

1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2201200.08

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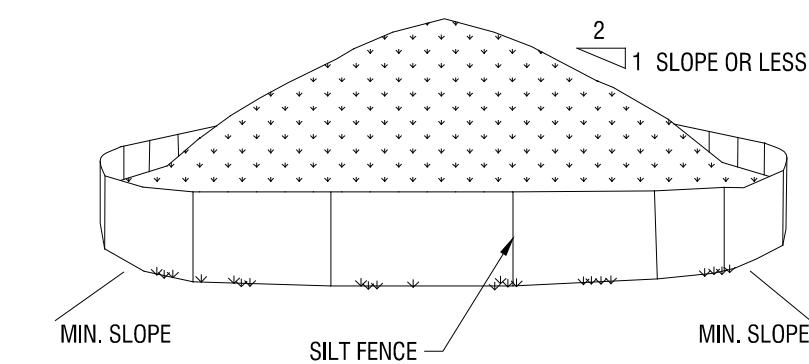
DATE: NOVEMBER 2020

DRAWING NAME:

**CONSTRUCTION DETAILS**

DRAWING NUMBER:

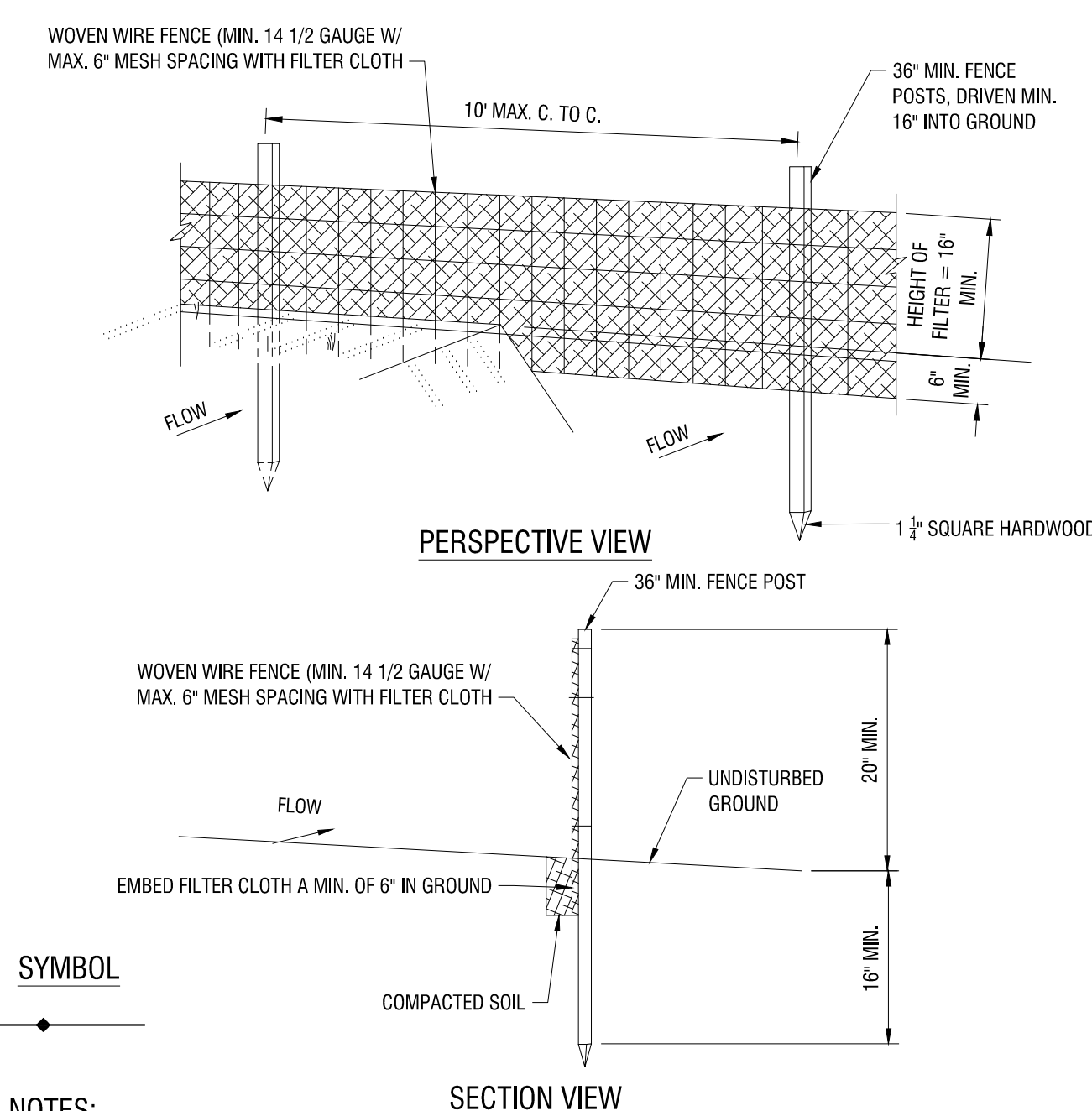
**C702**



**NOTES:**

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1V:2H.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS AND DETAIL FOR INSTALLATION OF SILT FENCE.

**4**  
C-702  
**TEMPORARY SOIL STOCKPILE**  
N.T.S.

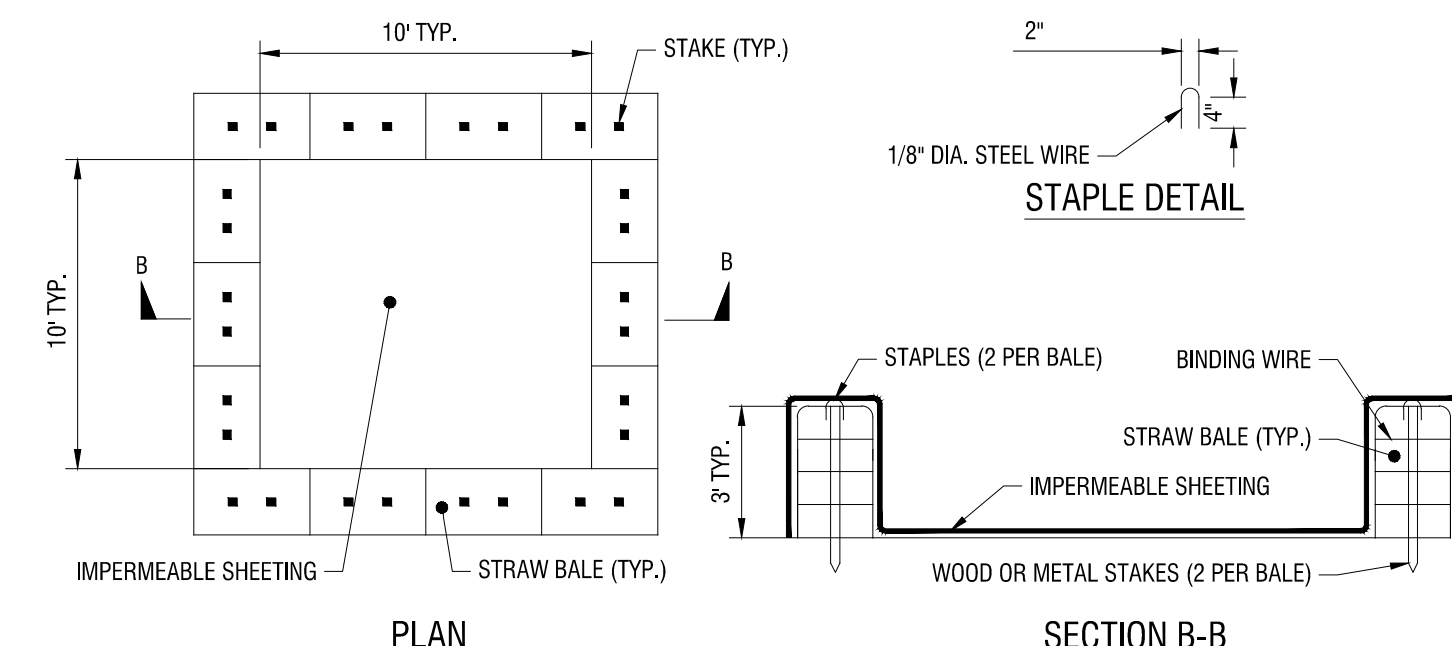


**SYMBOL**

**NOTES:**

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER 1" OR 1 1/2" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA 140N, OR APPROVED EQUAL.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

**2**  
C-702  
**SILT FENCE**  
NYS DEC DETAIL: SILT FENCE



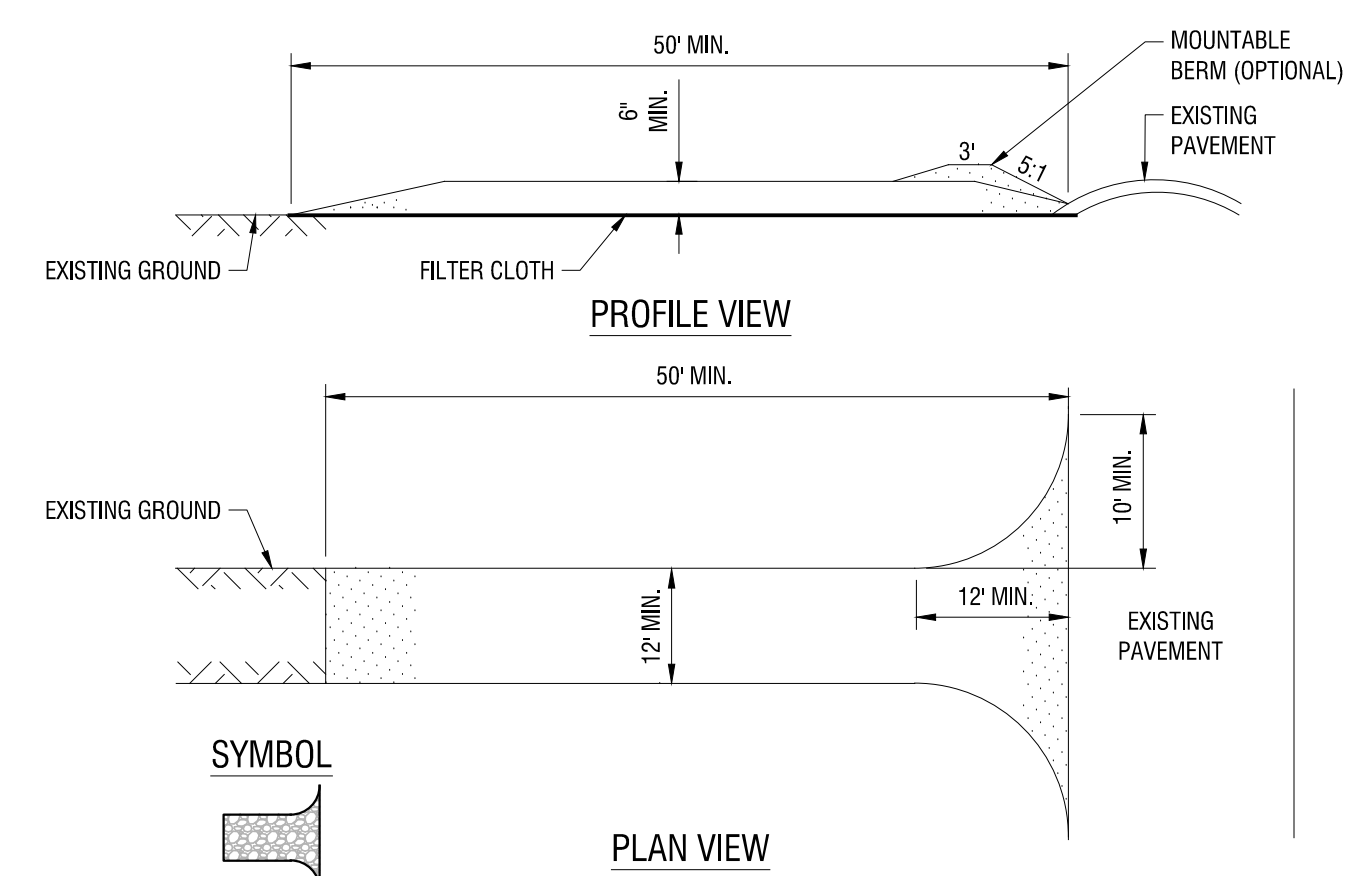
**NOTE:**

1. CAN BE TWO STACKED BALES OR PARTIALLY EXCAVATED TO REACH 3 FT DEPTH

**CONSTRUCTION SPECIFICATIONS**

1. LOCATE WASHOUT STRUCTURE A MINIMUM OF 100 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS AND WATER COURSES AND AWAY FROM CONSTRUCTION TRAFFIC.
2. SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
3. PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND TEARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
4. PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
5. KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G., RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.

**3**  
C-702  
**CONCRETE WASHOUT AREA WITH STRAW BALES**  
N.T.S.



**CONSTRUCTION SPECIFICATIONS:**

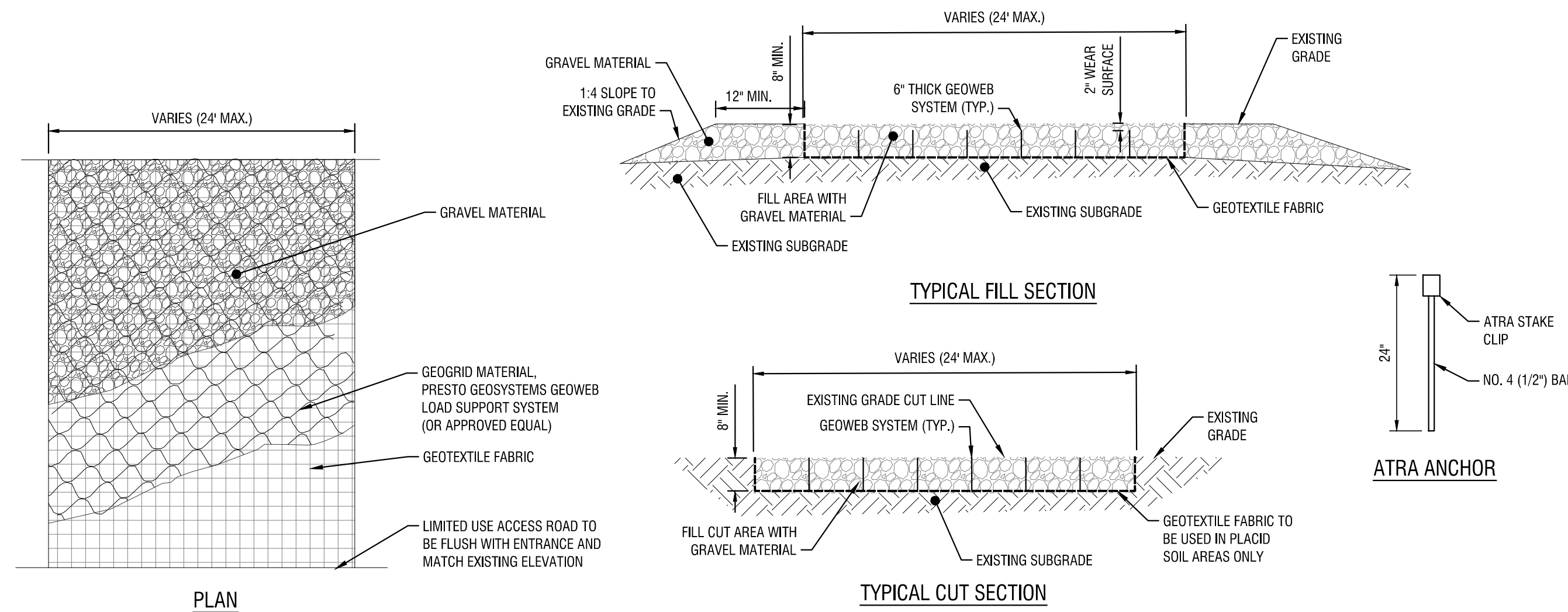
1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - 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 RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

**1**  
C-702  
**STABILIZED CONSTRUCTION ENTRANCE**  
N.YS DEC DETAIL: STABILIZED CONSTRUCTION ACCESS

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11/13/2020 5:55:01 PM S:\BRINGWALD\NEXT PERMILEY RODRAWINGS\CIVIL\C-700 - CONSTRUCTION DETAILS.DWG



**GENERAL NOTES:**

1. PROVIDE A 4800 LB/FT ENHANCED WOVEN GEOTEXTILE SEPERATION LAYER AND INSTALL PERMANUFACTURER RECOMMENDATIONS INCLUDING OVERLAPS BASED ON SUB GRADE CBR.
2. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS OF EACH INTERLEAF AND END TO END CONNECTION.
3. PROVIDE ATRA ANCHORS TO KEEP PANELS OPEN FOR INFILL AS REQUIRED.
4. GEOWEB INFILL SHALL BE 3/4" TO 1.5" CRUSHED AGGREGATE WITH FINES LIMITED TO LESS THAN 10% TO ALLOW FREE DRAINAGE.
5. LIMIT THE DROP OF INFILL TO PREVENT PANEL DISTORTION.
6. ASSUME HS-20 LOADING.

**PERMEABLE ACCESS ROAD GENERAL NOTES:**

1. 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.)
2. LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO LOW IMPACT IRREGULAR MAINTENANCE ACCESS ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.
3. REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY. FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
4. 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.
5. GRADE ROADWAY, WHERE NECESSARY, TO NATIVE SOIL AND DESIRED ELEVATION. MINOR GRADING FOR CROSS SLOPE CUT AND FILL MAY BE REQUIRED.
6. REMOVE REFUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.
7. ROADWAY WIDTH TO BE DETERMINED BY CLIENT.
8. THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL BE 2% IN MOST CASES AND SHOULD NOT EXCEED 5%. THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHOULD NOT EXCEED 15%.
9. 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.
10. 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 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.
11. 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.
12. PROJECTS 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 FOLLOWING NOTES.
13. 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 STANDARD. INCREASED POST-DEVELOPMENT RUNOFF FROM THE ASSOCIATED ROADSIDE DITCH MAY REQUIRE ADDITIONAL PRACTICES TO ATTENUATE RUNOFF TO PRE-DEVELOPMENT CONDITIONS.
14. 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 THIS VEGETATIVE COVER TO ENSURE FINAL STABILIZATION FOR THE LIFE OF THE ACCESS ROAD.
15. THE DESIGN PROFESSIONAL MUST ACCOUNT FOR THE LIMITED USE PERVIOUS ACCESS ROAD IN THEIR SITE ASSESSMENT/HYDROLOGY ANALYSIS. IF THE HYDROLOGY ANALYSIS SHOWS THAT THE HYDROLOGY HAS BEEN ALTERED FROM PRE- TO POST-DEVELOPMENT CONDITIONS (SEE APPENDIX A OF GP-0-20-001 FOR THE DEFINITION OF "ALTER THE HYDROLOGY..."), THE DESIGN MUST INCLUDE THE NECESSARY DETENTION/RETENTION PRACTICES TO ATTENUATE THE RATES (10 AND 100 YEAR EVENTS) TO PRE-DEVELOPMENT CONDITIONS.

**GEOGRID MATERIAL NOTES:**

1. 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.
2. GRAVEL 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.
3. GEOGRID SHALL BE MIRAFI BXG110 OR APPROVED EQUAL. GEOGRID SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.
4. IF MORE THAN ONE ROLL WIDTH IS REQUIRED, ROLLS SHOULD OVERLAP A MINIMUM OF SIX INCHES.
5. REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER TYING AND CONNECTIONS.
6. LIMITED USE PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH ONLY 1-4" CRUSHED STONE MEETING NYS DOT ITEM 703-02 SPECIFICATIONS.

BASIS OF DESIGN: TENCATE MIRAFI BXG110 GEOGRIDS; 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA; 800-685-9990 OR 706-693-2226; WWW.MIRAFI.COM

**GEOWEB MATERIAL NOTES:**

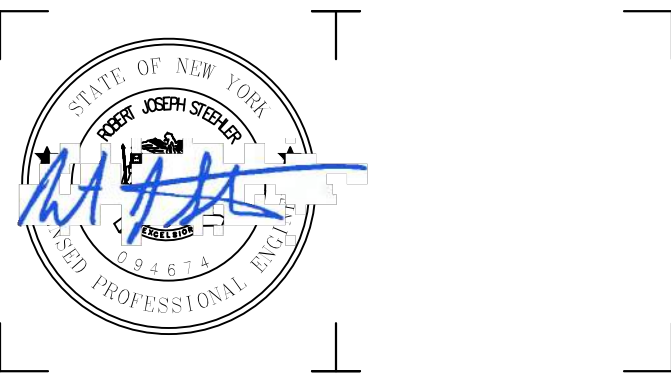
1. THE GEOWEB, OR COMPARABLE PRODUCT, IS SUGGESTED FOR USE ON ROAD PROFILES EXCEEDING 10%. THE GEOWEB PRODUCT IS INTENDED TO LIMIT SHIFTING STONE MATERIAL DURING USE.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. WHERE REQUIRED, A NATIVE SOIL WEDGE SHALL BE PLACED TO ACCOMMODATE ROAD CROSS SLOPE OF 2%. NATIVE SOIL SHALL BE COMPACTED TO MATCH EXISTING SOIL CONDITIONS.
4. GRAVEL 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.
5. GEOWEB SYSTEM SHALL BE PRESTO GEOSYSTEM GEOWEB OR APPROVED EQUAL. GEOWEB SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.
6. 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.
7. THE TOP EDGES OF ADJACENT CELL WALLS SHALL BE FLUSH WHEN CONNECTING. ALIGN THE 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 SPECIFICATION FOR PROPER INSTALLATION, TYING AND CONNECTIONS.
8. PREPARE THE SUBGRADE AS SHOWN ON THE CONSTRUCTION DRAWINGS.
9. COMPACT THE SOIL TO A MINIMUM 95% STANDARD PROCTOR.
10. VERIFY THAT THE SUBGRADE STRENGTH, IF UNACCEPTABLE, THE SOILS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
11. WHERE REQUIRED, PROVIDE GEOTEXTILE SEPERATION LAYER.
12. EXPAND THE GEOWEB SECTIONS INTO POSITION AND CONNECT THE END TO END INTERLEAF CONNECTIONS WITH ATRA KEYS.
13. PLACE THE SPECIFIED INFILL MATERIAL TO 2 INCHES ABOVE CELL WALLS AND COMPACT TO A MINIMUM 95% STANDARD PROCTOR.
14. PROVIDE ADDITIONAL SURFACE MATERIAL, AS SPECIFIED.

BASIS OF DESIGN: PRESTO GEOSYSTEMS GEOWEB; 670 NORTH PERKINS STREET, APPLETON, WI; 800-548-3424 OR 920-738-1222; INFOR@PRESTOGEO.COM; WWW.PRESTOGEO.COM

**WOVEN GEOTEXTILE MATERIAL NOTES:**

1. 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) OF C OR D, OR AS SPECIFIED FROM AN ENVIRONMENTAL SCIENTIST, SOIL SCIENTIST, OR GEOTECHNICAL DATA.
2. THE CONCERN FOR POTENTIAL REDUCTION OF NATIVE INFILTRATION RATES DUE TO THE GEOTEXTILE MATERIAL WOULD NOT BE A SIGNIFICANT CONCERN IN POORLY DRAINED SOILS WHERE SEGREGATION OF PERVIOUS STONE AND NATIVE MATERIALS IS CRUCIAL FOR LONG TERM OPERATION AND MAINTENANCE.

BASIS OF DESIGN: TENCATE MIRAFI RSI-SERIES WOVEN GEOSYNTHETICS; 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA; 800-685-9990 OR 706-693-2226; WWW.MIRAFI.COM



It is a violation of New York Education Law Article 145 Sec. 7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, engineer, or land surveyor is altered; the altering architect, engineer, or land surveyor shall affix to the item their seal and notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

**NEXT ERA ENERGY**

700 UNIVERSE BLVD.  
JUNO BEACH, FL 33408



**2020 NY GREENFIELD PV  
DESIGN - RILEY ROAD 1**

1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2201200.08

DRAWN BY: BER

REVIEWED BY: DG

ISSUED FOR: REVIEW

DATE: NOVEMBER 2020

DRAWING NAME:

**CONSTRUCTION DETAILS**

DRAWING NUMBER:





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**NEXTERA ENERGY**

700 UNIVERSE BLVD.  
JUNO BEACH, FL 33408



**2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1**

1902 RILEY RD.  
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2201200.08

DRAWN BY: BER

REVIEWED BY: DG

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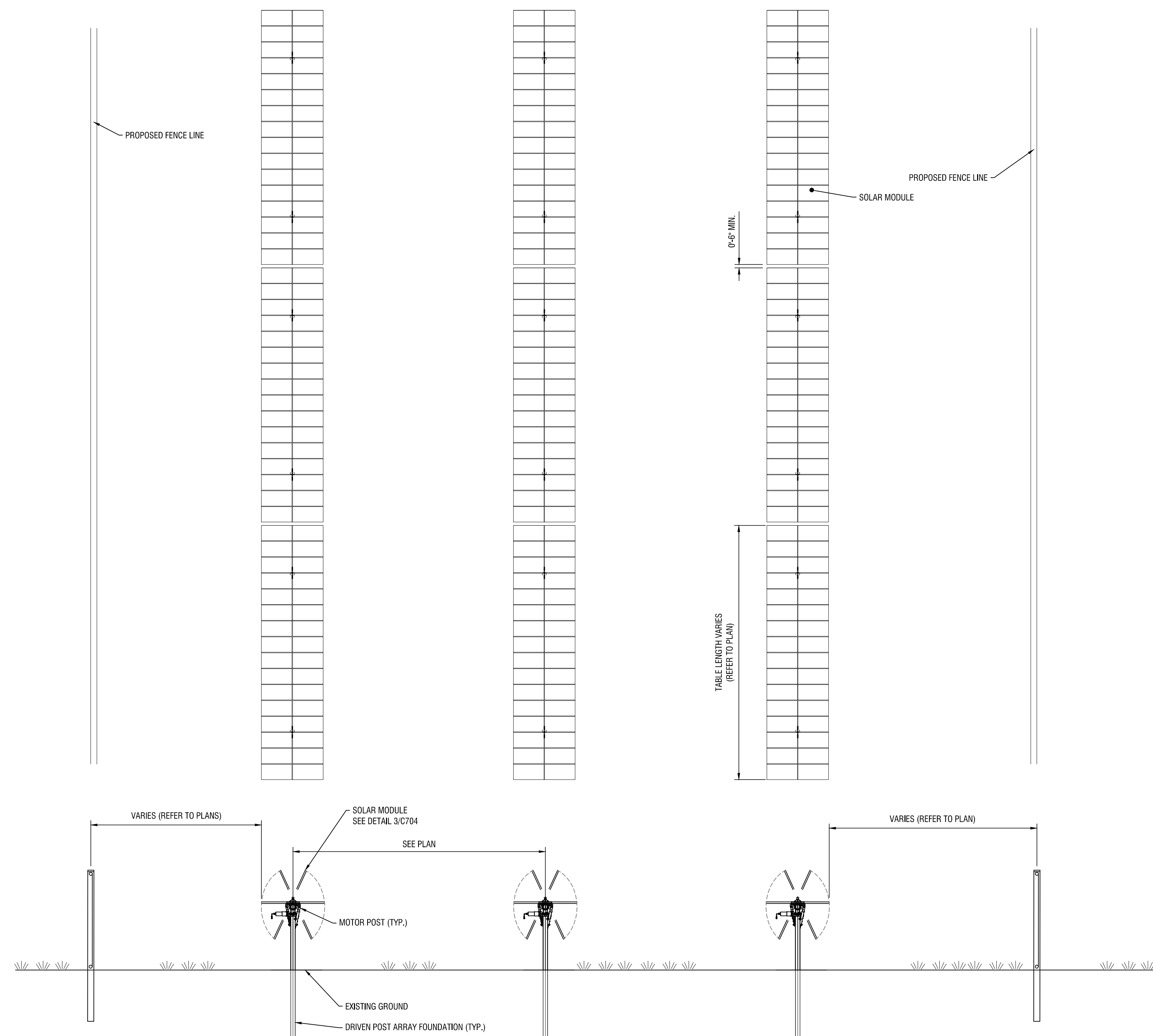
DATE: NOVEMBER 2020

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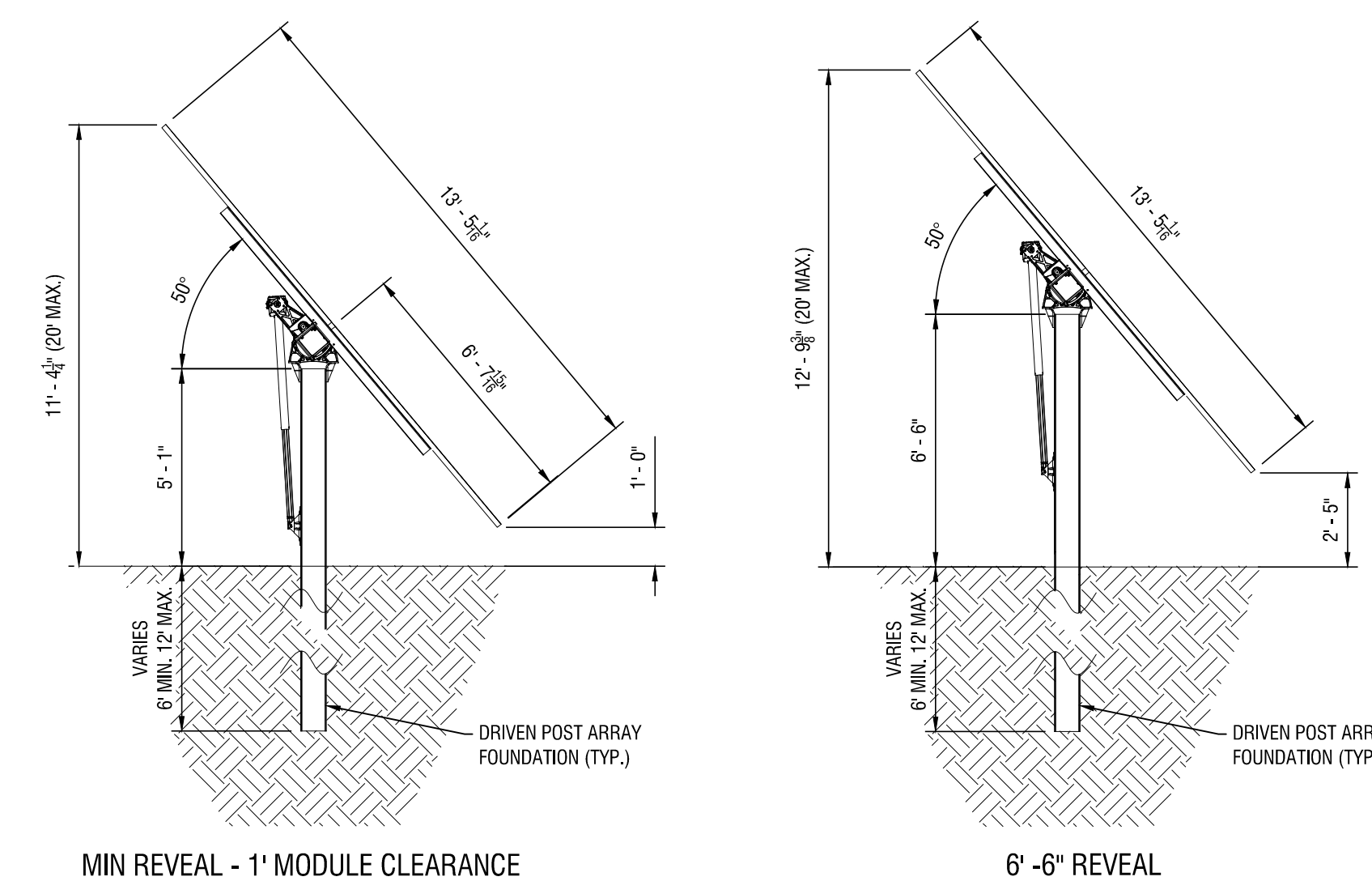
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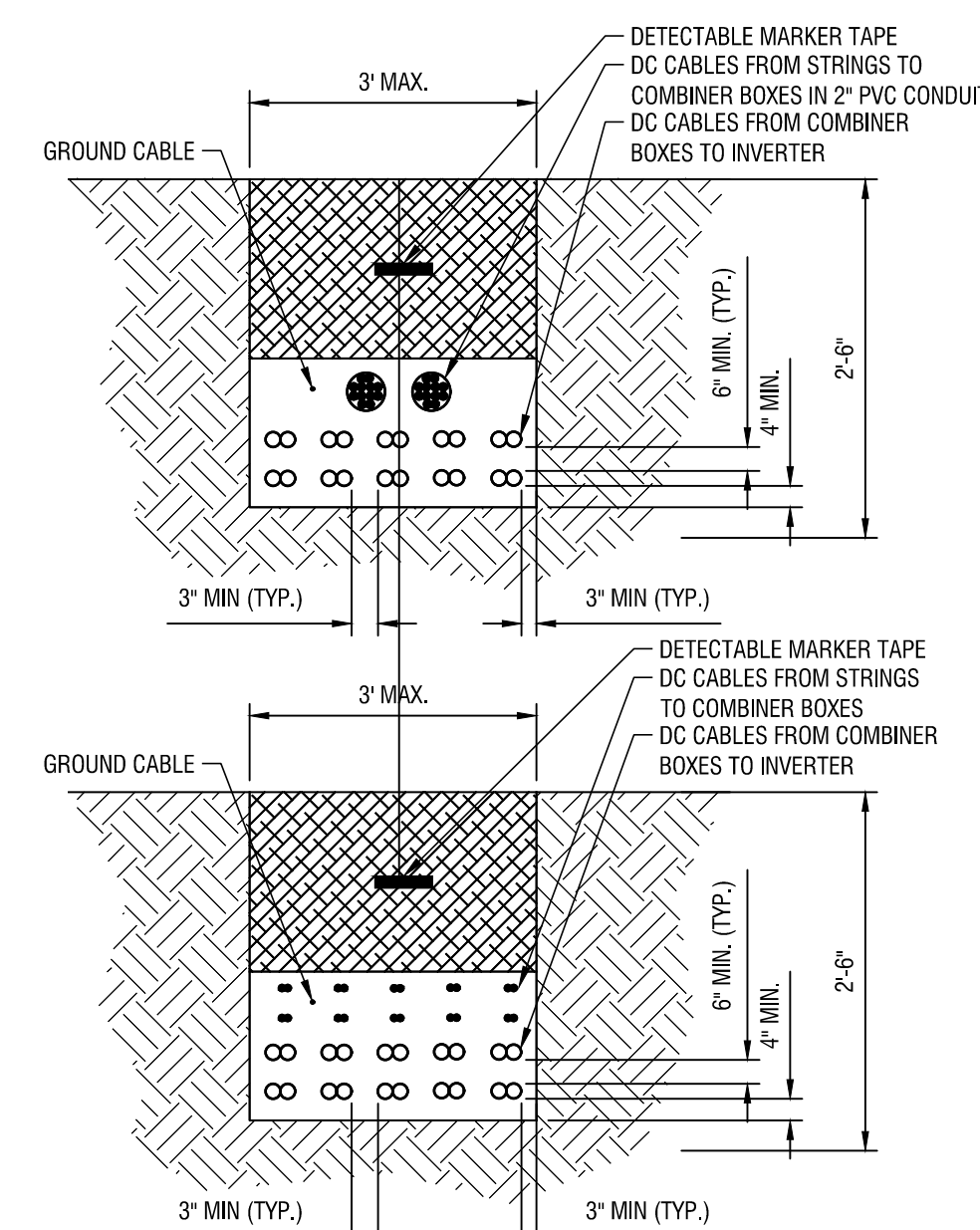
**C704**



**2**  
C-704  
TYPICAL SITE LAYOUT  
N.T.S.



**3**  
C-704  
SOLAR MODULE AND FRAME PROFILE  
N.T.S.



**TRENCH NOTES:**

- ADDITIONAL MISCELLANEOUS CABLES FROM FIELD DEVICES SUCH AS TEMPERATURE TRANSMITTERS, METEOROLOGICAL STATIONS, REFERENCE MODULES, SIGNAL GROUND SHALL UTILIZE THE UNDERGROUND TRENCH SYSTEM WHERE IT IS APPLICABLE. CABLES SHALL BE INSTALLED AT LAYERS AS INDICATED.
  - THE TRENCH DETAIL BELOW SHOWS A SAMPLE NUMBER OF DC FEEDER CABLES FROM DC COMBINER BOXES. SPECIFIC CABLE QUANTITIES ARE SHOWN IN RESPECTIVE DETAIL SECTION.
  - TRENCHING MUST COMPLY WITH THE LATEST STANDARDS.
  - CLEAN FILL REQUIREMENTS: TRENCHING BEDDING SHALL BE SAND OR ROCK-FEE FILL SCREENED TO A MAXIMUM 1/4" SIZE AS A CUSHION (FREE OF SHARP EDGE MATERIAL, ROTTING WOOD OR ORGANIC MATTER THAT MIGHT ATTRACT INSECTS). THE CABLES SHALL BE COVERED WITH "CLEAN FILL" SAND OR SOFT EARTH, FREE FROM STONES, ROCKS OR OTHER MATERIAL THAT MAY DAMAGE THE CABLE DURING BACKFILL.
  - THE CABLES CROSS-SECTION AND THE NUMBER SHOWN IS ONLY AN EXAMPLE. ALL CABLES SHALL BE IN ACCORDANCE WITH STANDARDS AND SHALL BE SIZED ACCORDING TO USE AND TYPE OF INSTALLATION.
- UNTREATED NATIVE SOIL
  - CLEAN, DRY BACKFILL CUSHION
  - EARTH UNDISTURBED

**NOTES:**

- CONDUCTORS TO BE 1000V RATED FOR DIRECT BURIAL. MEDIUM VOLTAGE CONDUCTORS FROM PS1 TO BE RATED FOR CLASS 35KV, AND MEDIUM VOLTAGE CONDUCTORS FROM PS2 TO BE RATED FOR CLASS 15KV.
- CONDUCTORS OF THE SAME CIRCUIT TO BE NEXT TO EACH OTHER; COMBINER CIRCUITS TO BE SPACED 4.5" FROM EACH OTHER UNLESS POSTED OTHERWISE (HORIZONTAL/VERTICAL DIRECTIONS).
- COMMUNICATIONS TO BE BURIED 1' AWAY FROM ALL POWER CONDUCTORS. USE DIRECT BURY RATED RBER CABLE.
- 3" OR 4" PVC SCH80 JUMP-CONDUIT SHALL BE UTILIZED FOR ROW-TO-ROW STRING CIRCUITS WIRING.
- POWER SUPPLY CABLES TO ARC FAULT CIRCUIT INTERRUPTION CIRCUITS SHALL BE LOCATED AT A MINIMUM 1' FROM DC CIRCUITS.
- CONTRACTOR SHALL SIZE THE ROW-TO-ROW JUMPER CONDUIT FOR THE CONDUCTORS USED, WITH PVC SCHEDULE 80. A TOTAL OF 60 #10 HOMERUN CABLES CAN FIT INTO A STANDARD 4" PVC CONDUIT. CONTACT THE ENGINEER IF ADDITIONAL GUIDANCE IS REQUIRED.

**1**  
C-704  
TYPICAL TRENCH DETAILS  
N.T.S.