

2020 NY GREENFIELD PV DESIGN - RILEY ROAD

1902 RILEY RD,
CORTLAND, NY 13045

PROJECT DATA

PARCEL INFORMATION

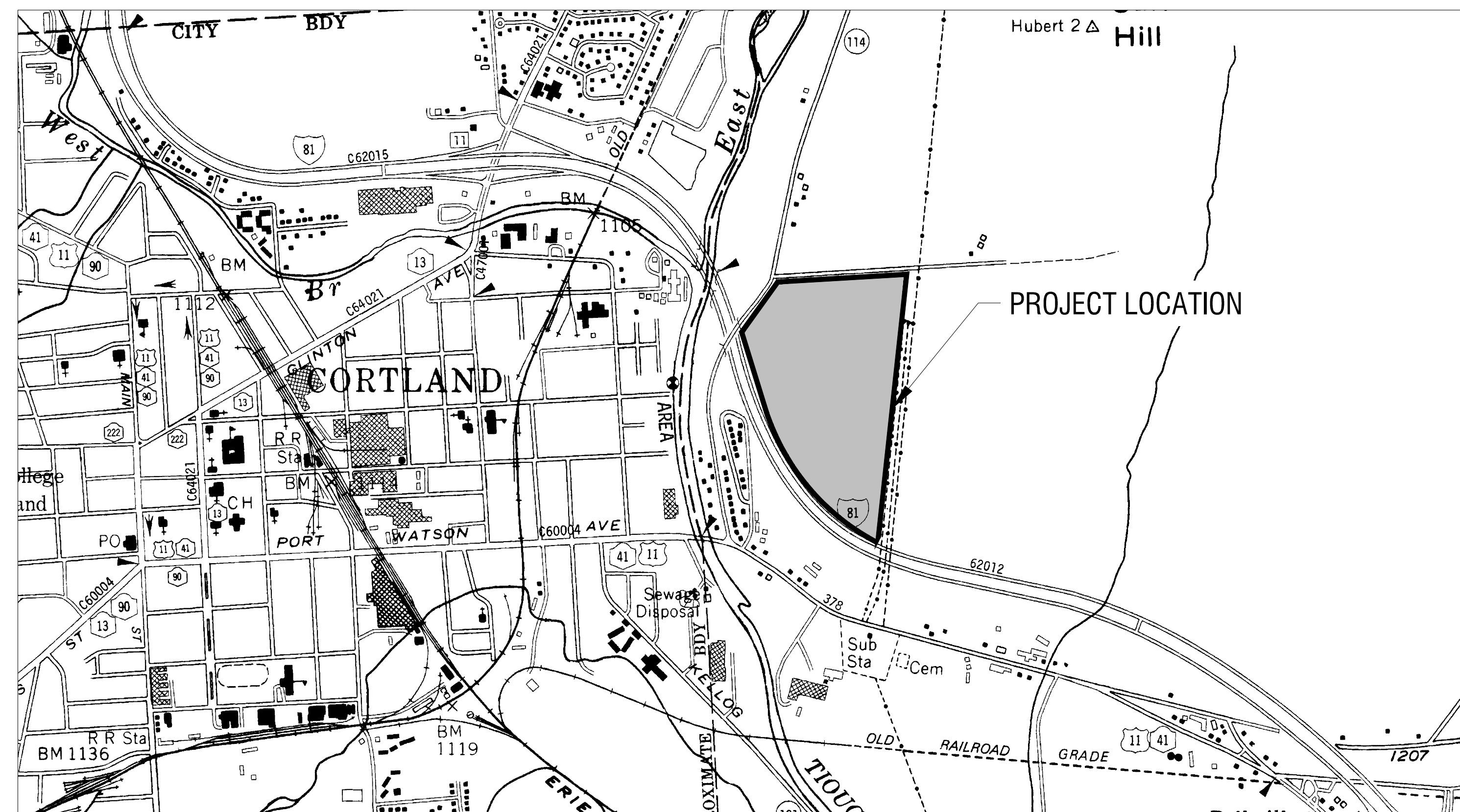
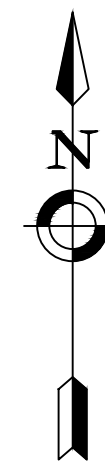
APPLICANT	NEXTERA ENERGY
PARCEL ADDRESS	1902 RILEY RD, CORTLANDVILLE, NY 13045
TAX NUMBER	87.00-03-08.112
GPS COORDINATES	N: 42.604164° W: -76.153672°
AVERAGE SITE ELEVATION	1275.00'
PARCEL AREA	52.05 ACRES
DISTURBANCE AREA	36.96 ACRES
EQUIPMENT PAD AREA	±11,400 SF
STAGING AREA	1.14 ACRES
FENCED AREA	34.45 ACRES
ROAD LENGTH	±1,090 FT
SILT FENCE	±2,023 FT
CHAIN LINK FENCE	±5,080 FT
GATE COUNT	3

SYSTEM SUMMARY (TOTAL)

SYSTEM AC SIZE (MW)	5.0
SYSTEM DC SIZE (MW)	7.5
MODULE COUNT	20,748
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	HTTPS://WWW.CORTLANDVILLE.ORG/ PLANNING-ZONING/PAGES/ZONING-LAWS	
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
FENCE HEIGHT	-	6 FT + 1' BARBED WIRE
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
C200	OVERALL SITE PLAN	REV 0-0
C201	SITE PLAN	REV 0-0
C202	SITE PLAN	REV 0-0
C301	GRADING & DRAINAGE PLAN	REV 0-0
C302	GRADING & DRAINAGE PLAN	REV 0-0
C501	EROSION & SEDIMENT CONTROL PLAN	REV 0-0
C502	EROSION & SEDIMENT CONTROL PLAN	REV 0-0
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C602	LANDSCAPING PLAN	REV 0-0
C701	CONSTRUCTION DETAILS	REV 0-0
C702	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



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.



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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

DRAWN BY: BER & JMA

REVIEWED BY: RJS

ISSUED FOR: REVIEW

DATE: DECEMBER 2020

DRAWING NAME:

CONSTRUCTION NOTES

DRAWING NUMBER:

C001

12/17/2020 4:56:53 PM \\PROJECTS\PROJECTS\DRAWING PROJECT CONST. CO\2201200.08 - NEER RILEY RD PV DESIGN\DRAWINGS\CIVIL\AUTOCAD\CONSTRUCT\SC-100- EXISTING CONDITIONS & REMOVALS PLANNING

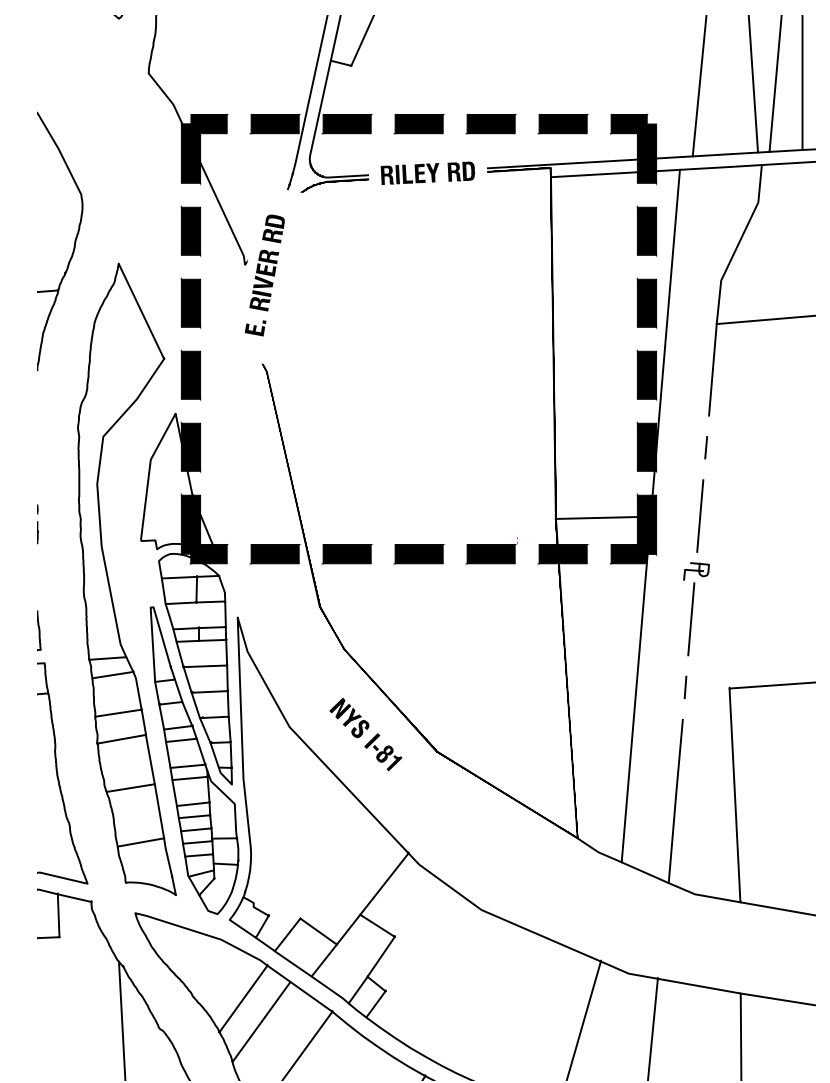


DEMOLITION NOTES

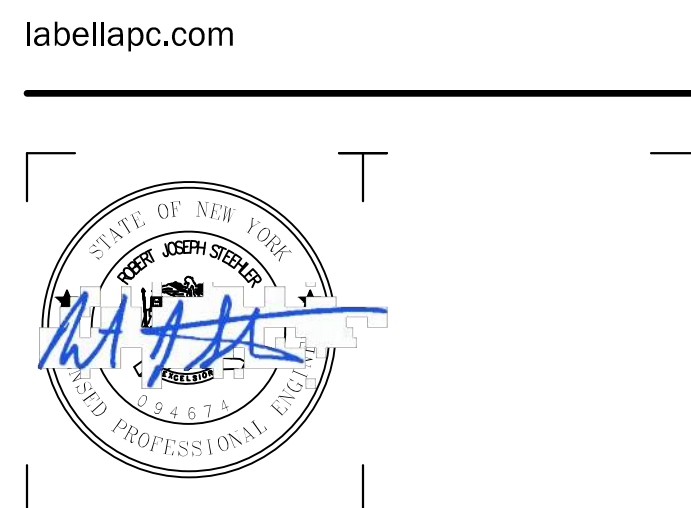
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2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK AT 811 TO REQUEST UTILITY STAKEOUT OF ALL PUBLIC UTILITIES.
3. THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES, STRUCTURES, 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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11. COORDINATE LOCATION OF TEMPORARY CONSTRUCTION FENCE AND TEMPORARY STONE STAGING AREA WITH OWNER

LEGEND

EXISTING	DESCRIPTION
	WETLAND
	ROADWAY CENTERLINES
	CHAIN LINK FENCE
	TREELINE
	SUBJECT PARCEL PROPERTY LINE
	ADJACENT PARCEL PROPERTY LINE
	RIGHT-OF-WAY LINE
	SETBACK/ BUFFER LINE
	EASEMENT LINE
	OVERHEAD ELECTRIC LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	LINE OF DRAINAGE LINE
	UTILITY POLE W/O LIGHT



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



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NEXTERA ENERGY
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JUNO BEACH, FL 33408



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DESIGN - RILEY ROAD 1**
1902 RILEY RD.
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REVIEWED BY:		RJS
ISSUED FOR:		REVIEW
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DRAWING NAME:		

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

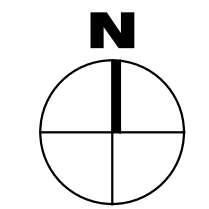
DRAWING NUMBER:

C101

MATCH TO SHEET C-102

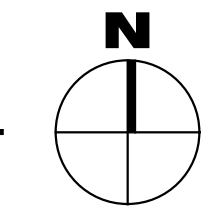
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C101

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



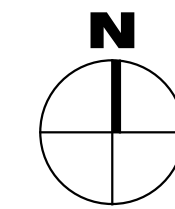
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C101

KEY PLAN
SCALE: 1" = 750'





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

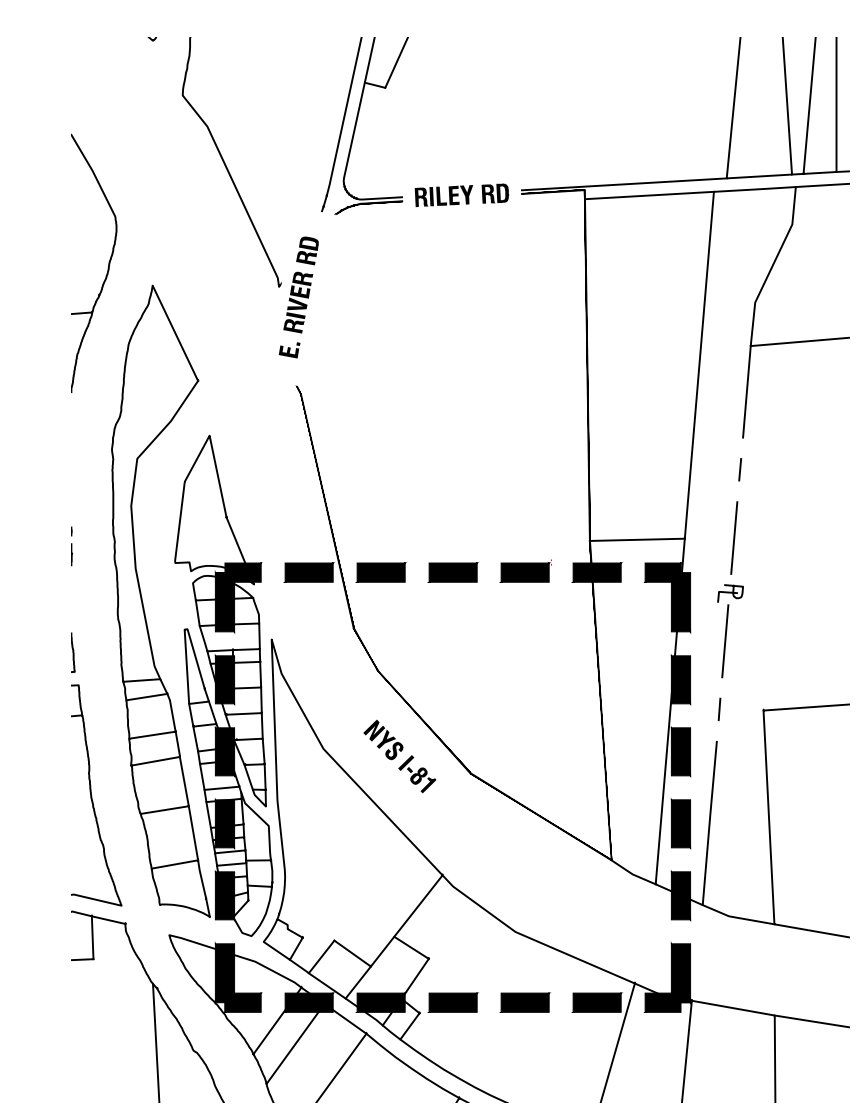


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LEGEND

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	EASEMENT LINE
	OVERHEAD ELECTRIC LINE
	MAJOR CONTOUR
	MINOR CONTOUR
	OF DRAINAGE LINE
	UTILITY POLE W/O LIGHT



1 KEY PLAN
SCALE: 1" = 750'



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1902 RILEY RD.
CORTLANDVILLE, NY 13045

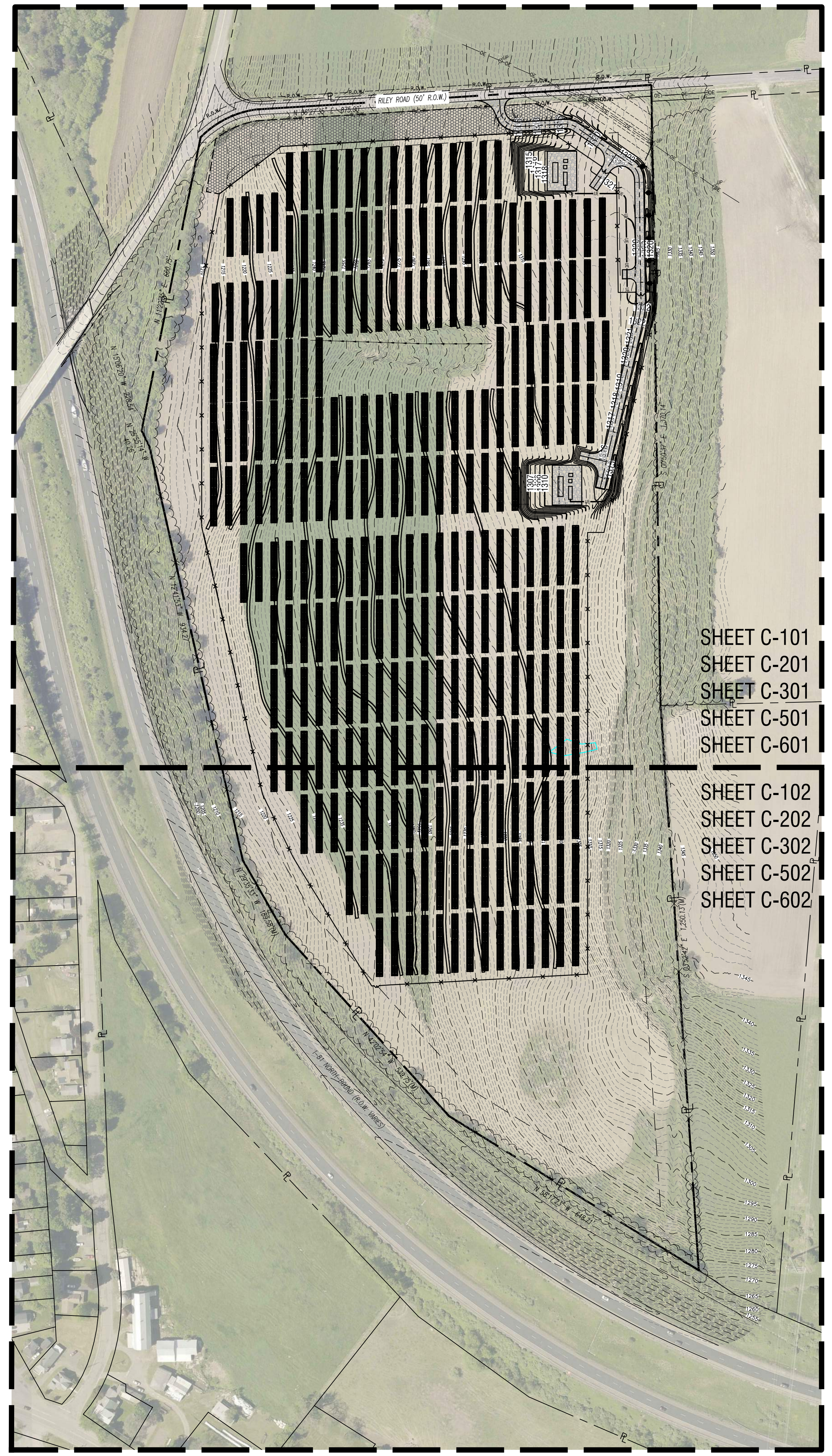
NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER: 2201200.08		
DRAWN BY: BER & JMA		
REVIEWED BY: RJS		
ISSUED FOR: REVIEW		
DATE: DECEMBER 2020		
DRAWING NAME:		

EXISTING CONDITIONS AND REMOVALS PLAN (SHEET 2 OF 2)

DRAWING NUMBER:

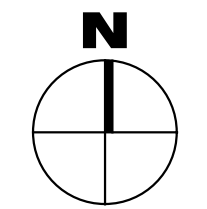
C102

12/17/2020 4:56:07 PM
 \PROJECTS\PROJECTS\INDG PROJECT CONST. CO\2201200.08 - NEER RILEY RD PL DESIGN\DRAWINGS\CIVIL\AUTOCAD\CONSTRUCT\C-200 - SITE PLAN.DWG



SHEET C-101
 SHEET C-201
 SHEET C-301
 SHEET C-501
 SHEET C-601
 SHEET C-102
 SHEET C-202
 SHEET C-302
 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.

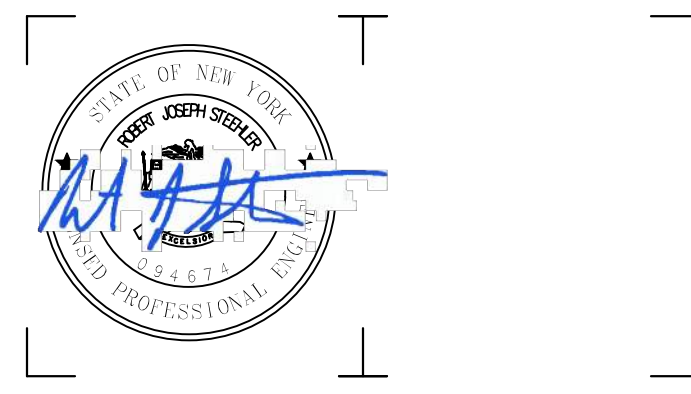
GENERAL UTILITY NOTES:

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
		SUBJECT PARCEL PROPERTY LINE
		ADJACENT PARCEL PROPERTY LINE
		RIGHT-OF-WAY LINE
		SETBACK LINE
		EASEMENT LINE
		MAJOR CONTOUR
		MINOR CONTOUR
		LINE OF DRAINAGE LINE
		OVERHEAD ELECTRIC LINE
		UNDERGROUND ELECTRIC LINE
		UTILITY POLE W/O LIGHT

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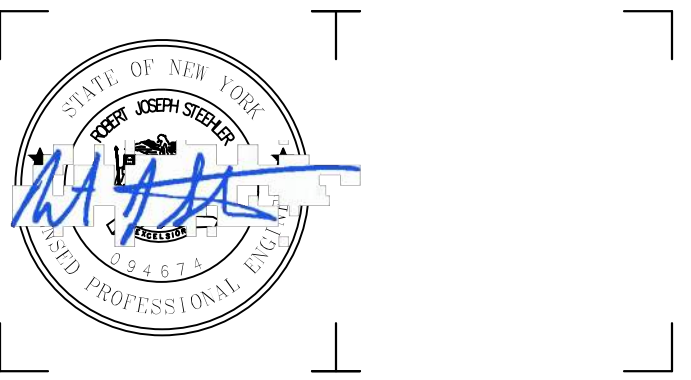
2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1
 1902 RILEY RD.
 CORTLANDVILLE, NY 13045

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

OVERALL SITE PLAN

DRAWING NUMBER:

C200



If 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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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 & BER

REVIEWED BY: RJS

ISSUED FOR: REVIEW

DATE: DECEMBER 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

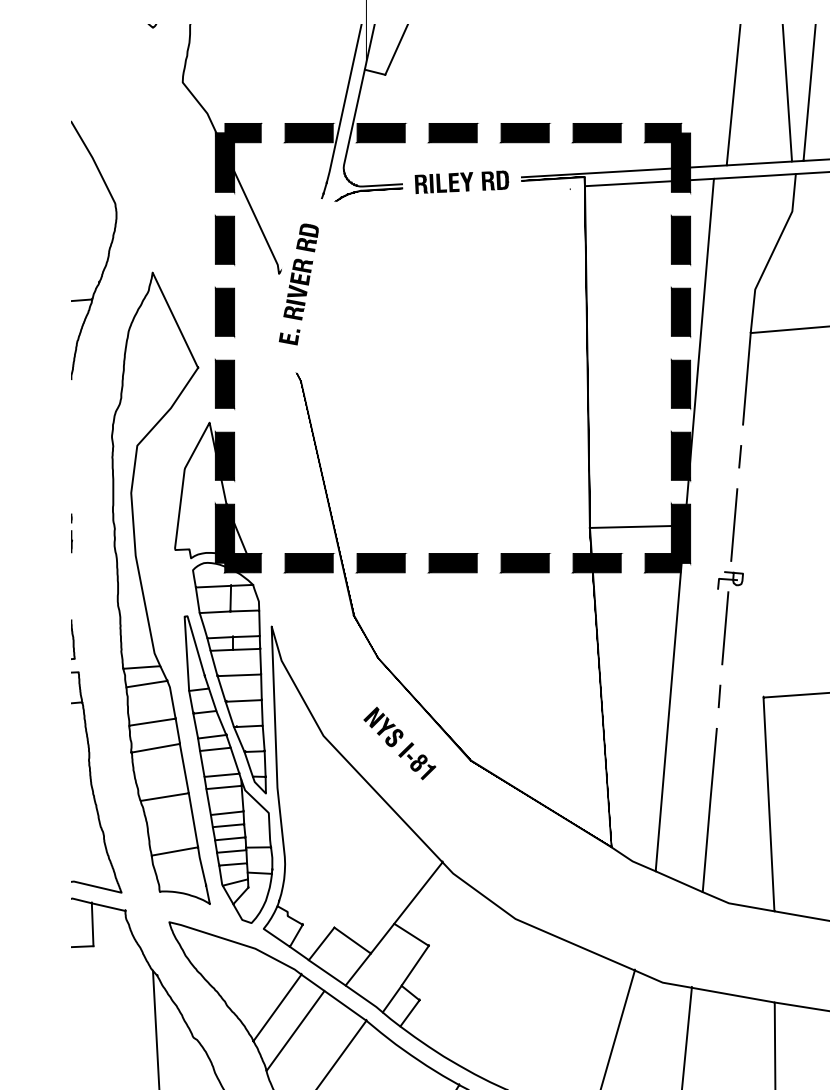
EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		PERVIOUS GRAVEL PAVEMENT
		CHAIN LINK FENCE
		TREELINE
		SUBJECT PARCEL PROPERTY LINE
		ADJACENT PARCEL PROPERTY LINE
		RIGHT-OF-WAY LINE
		SETBACK LINE
		EASEMENT LINE
		MAJOR CONTOUR
		MINOR CONTOUR
		∠ OF DRAINAGE LINE
		OVERHEAD ELECTRIC LINE
		UNDERGROUND ELECTRIC LINE
		UTILITY POLE W/O LIGHT

QUANTITIES TABLE

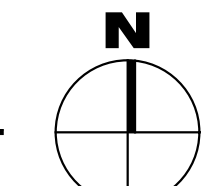
SITE AND UTILITY QUANTITIES

GRAVEL DRIVE	±26,432 SF
GRAVEL PAD	±9,696 SF
CONCRETE	±1,723 SF
6' TALL CHAIN LINK FENCING	±5,080 LF
12' CHAIN LINK DOUBLE SWING GATE	1
24' CHAIN LINK DOUBLE SWING GATE	2
UNDERGROUND ELECTRICAL WIRING	±1,010 LF
OVERHEAD ELECTRICAL WIRING	±315 LF
UTILITY POLES	6

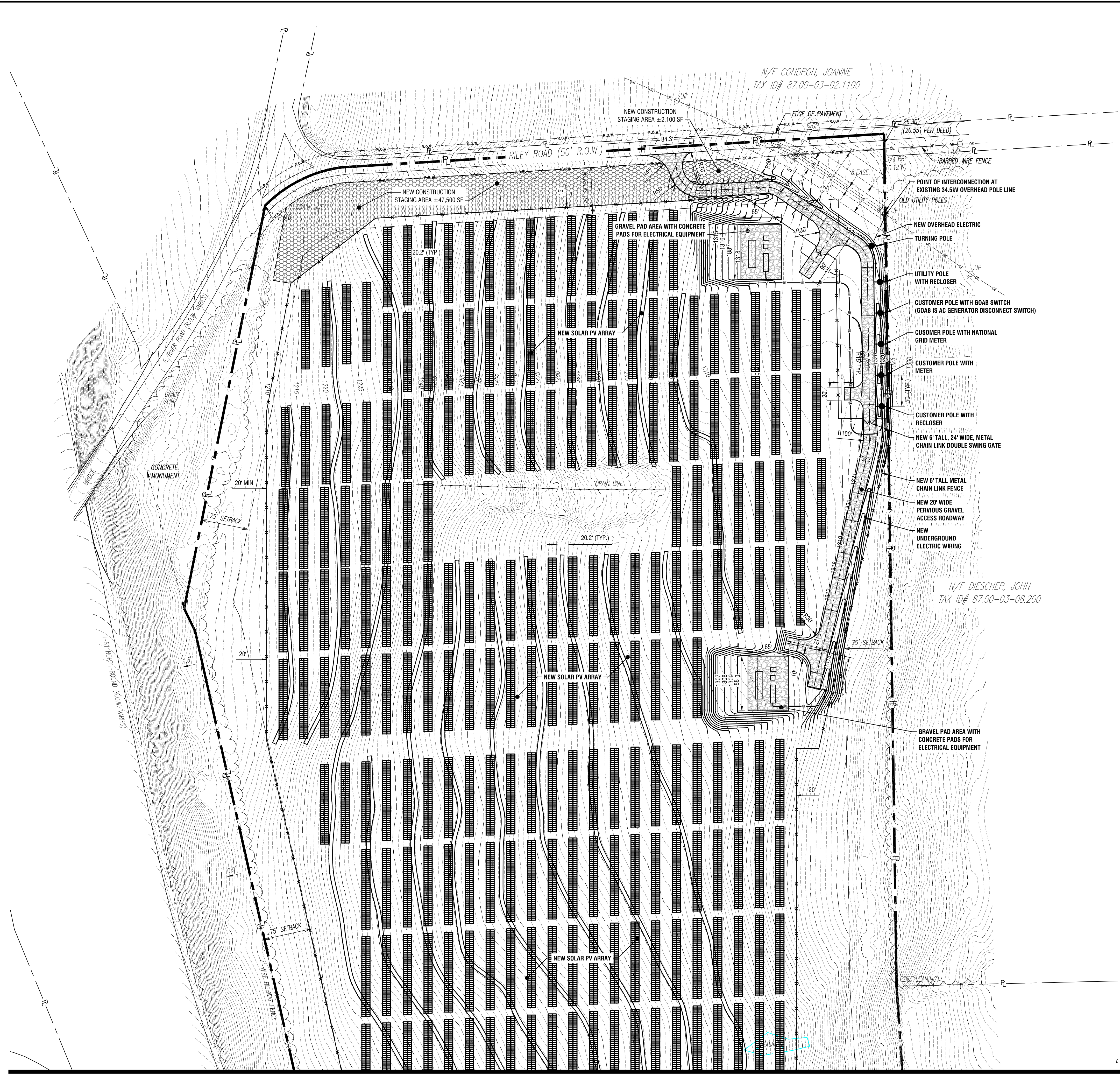
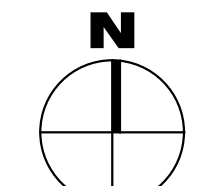
NOTE:
QUANTITIES ARE FOR ENTIRE SITE AND ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY PROPOSED QUANTITIES BASED ON DESIGN PRIOR TO BID.



1 KEY PLAN
SCALE: 1" = 750'

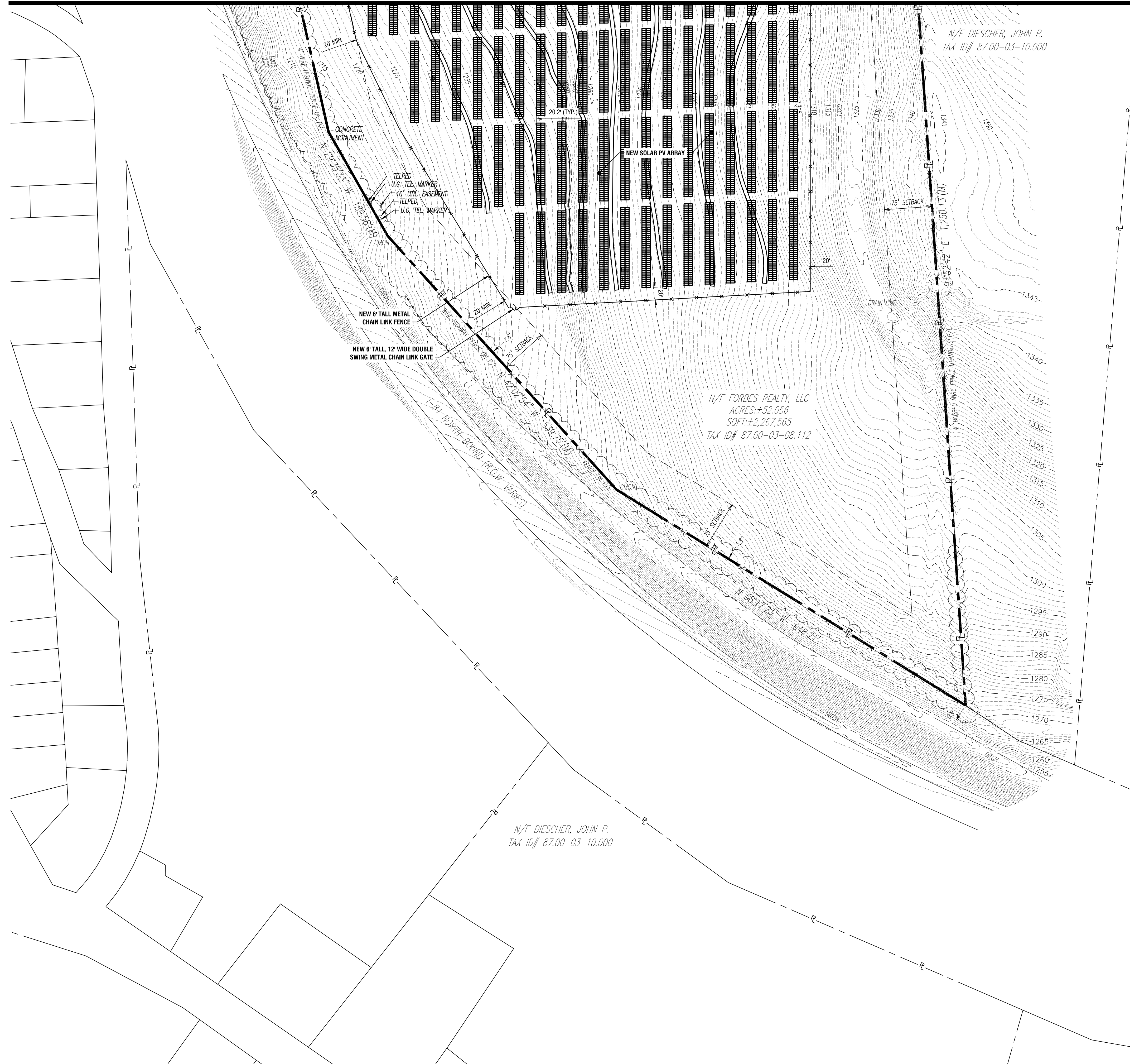


2 SITE PLAN
SCALE: 1" = 80'

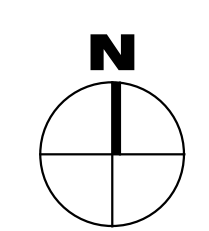


MATCH TO SHEET C-202

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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.

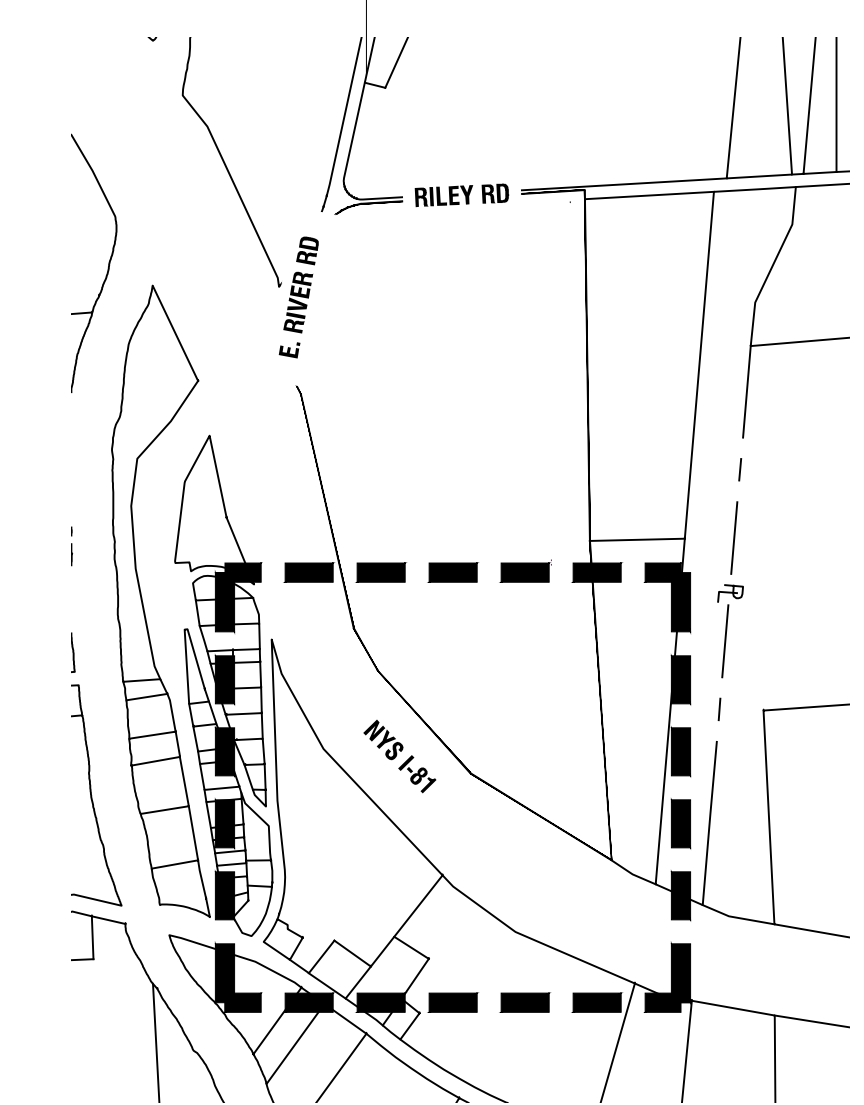
LEGEND

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		PERVIOUS GRAVEL PAVEMENT
		CHAIN LINK FENCE
		TREELINE
		SUBJECT PARCEL PROPERTY LINE
		ADJACENT PARCEL PROPERTY LINE
		RIGHT-OF-WAY LINE
		SETBACK LINE
		EASEMENT LINE
		MAJOR CONTOUR
		MINOR CONTOUR
		OF DRAINAGE LINE
		OVERHEAD ELECTRIC LINE
		UNDERGROUND ELECTRIC LINE
		UTILITY POLE W/O LIGHT

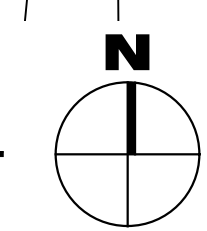
QUANTITIES TABLE

SITE AND UTILITY QUANTITIES	
GRAVEL DRIVE	±26,432 SF
GRAVEL PAD	±9,696 SF
CONCRETE	±1,723 SF
6' TALL CHAIN LINK FENCING	±5,080 LF
12' CHAIN LINK DOUBLE SWING GATE	1
24' CHAIN LINK DOUBLE SWING GATE	2
UNDERGROUND ELECTRICAL WIRING	±1,010 LF
OVERHEAD ELECTRICAL WIRING	±315 LF
UTILITY POLES	6

NOTE:
QUANTITIES ARE FOR ENTIRE SITE AND ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY PROPOSED QUANTITIES BASED ON DESIGN PRIOR TO BID.

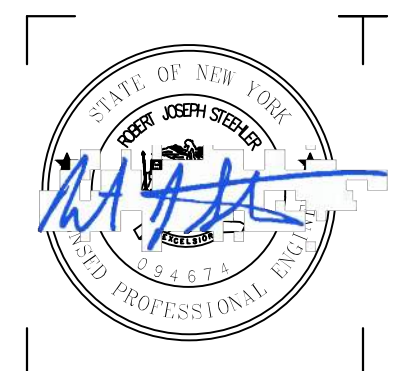


1 KEY PLAN
SCALE: 1" = 750'



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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: BER & JMA

REVIEWED BY: DG

ISSUED FOR: REVIEW

DATE: DECEMBER 2020

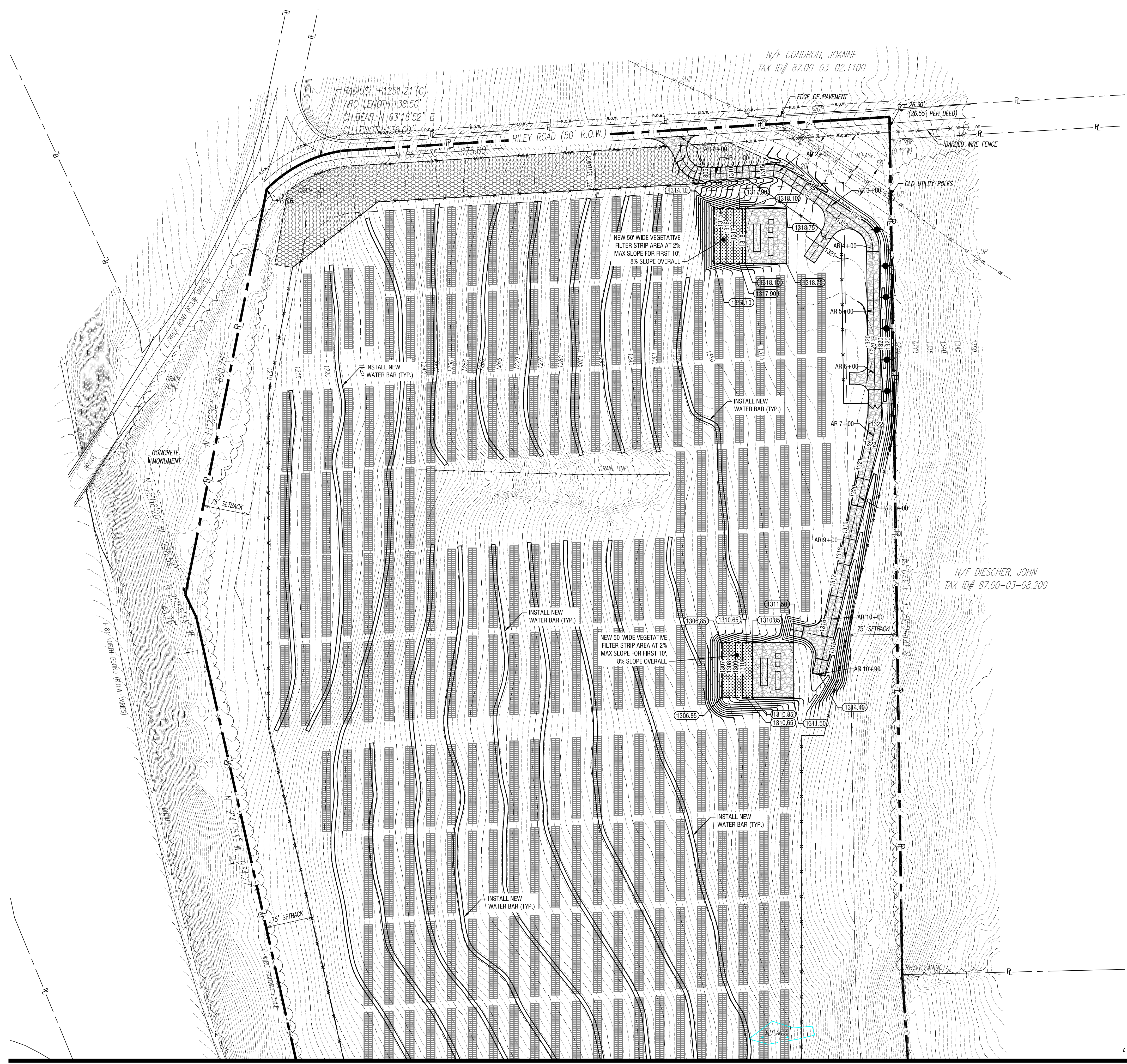
DRAWING NAME:

SITE PLAN (SHEET 2 OF 2)

DRAWING NUMBER:

C202

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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 OF 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 (INSDOT 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 IN ALL DISTURBED AREAS PRIOR TO SEEDING.

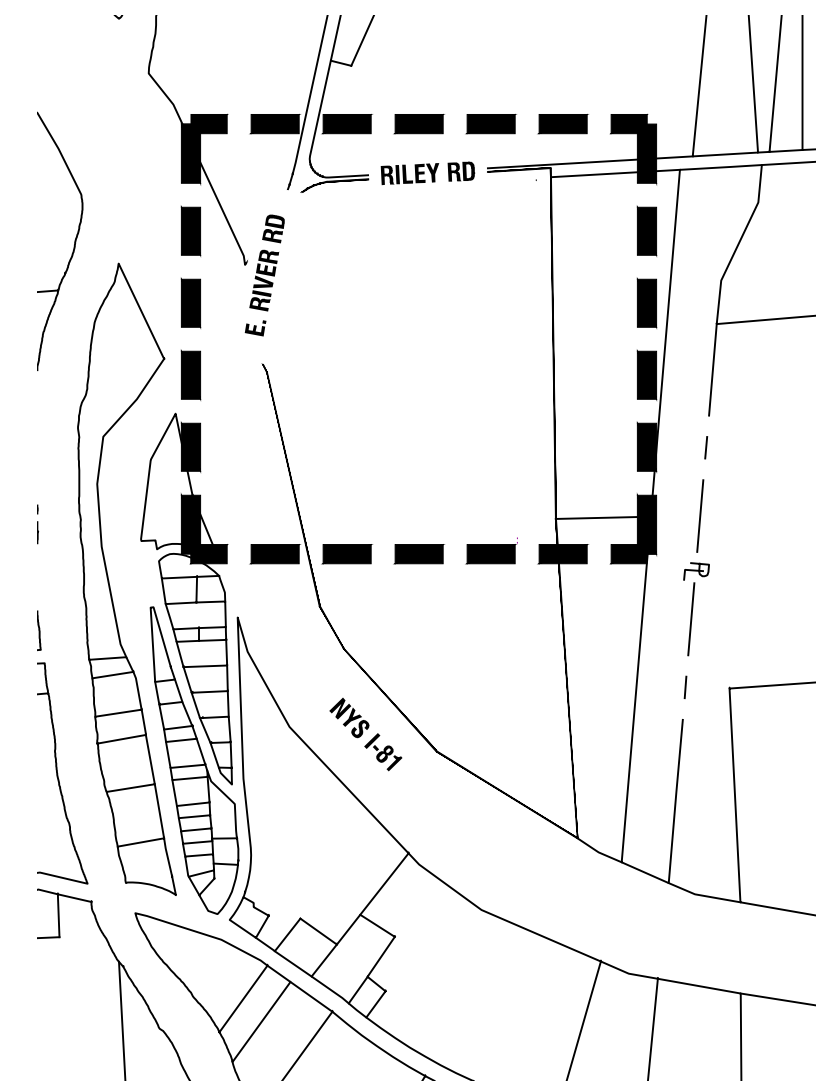
LEGEND

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		GRAVEL PAVEMENT
		FILTER STRIP AREA
		CHAIN LINK FENCE
		TREELINE
		SUBJECT PARCEL PROPERTY LINE
		ADJACENT PARCEL PROPERTY LINE
		RIGHT-OF-WAY LINE
		SETBACK LINE
		% OF DRAINAGE LINE
		MAJOR CONTOUR
		MINOR CONTOUR
		WATER BAR
		UTILITY POLE W/O LIGHT

QUANTITIES TABLE

GRADING QUANTITIES	
CUT	± 1,511 CY
FILL	± 4,781 CY
WATER BAR	15,377 LF

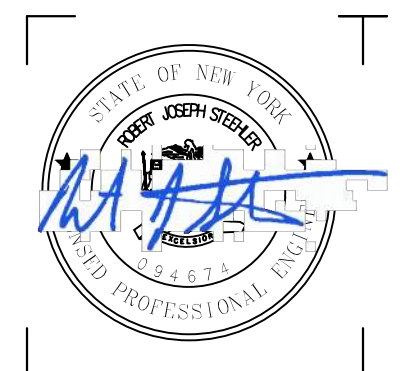
NOTE:
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1 KEY PLAN
SCALE: 1" = 750'

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

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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 & BER
REVIEWED BY:		RJS
ISSUED FOR:		REVIEW
DATE:		DECEMBER 2020
DRAWING NAME:		

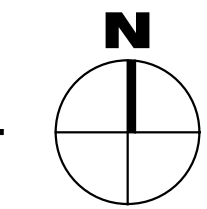
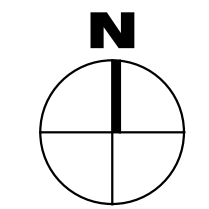
**GRADING & DRAINAGE PLAN
PLAN
(SHEET 1 OF 2)**

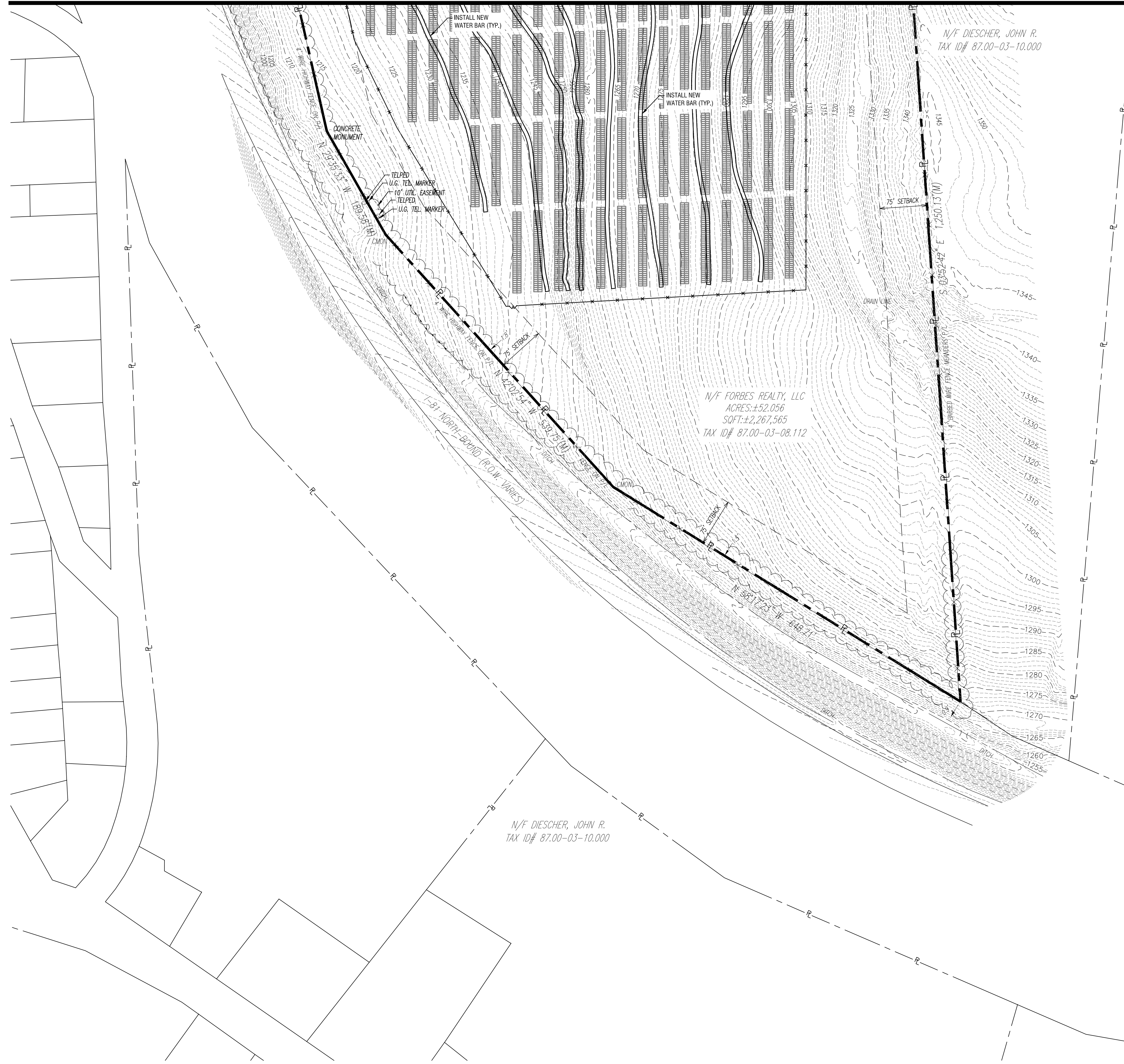
DRAWING NUMBER:

C301

MATCH TO SHEET C-302

2 GRADING & DRAINAGE PLAN
SCALE: 1" = 80'





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 OF THE CONTRACTOR SHALL APPLY.
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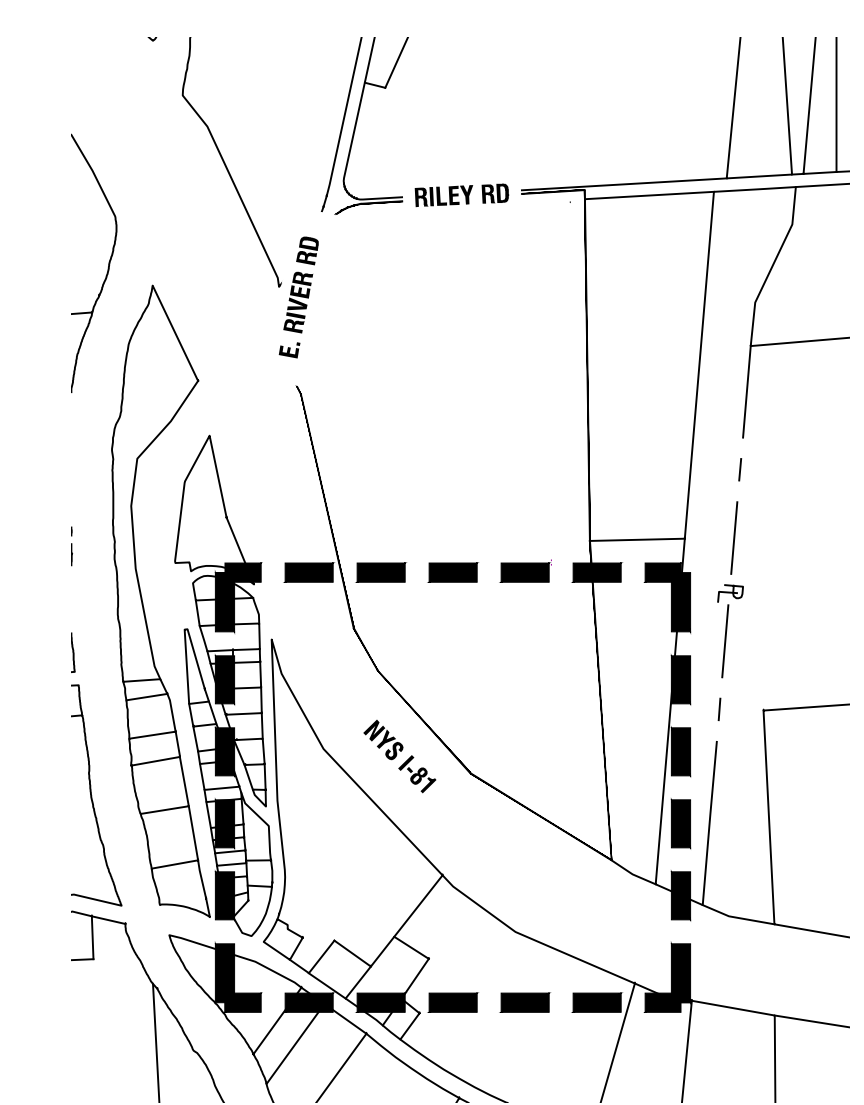
LEGEND

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		GRAVEL PAVEMENT
		FILTER STRIP AREA
		CHAIN LINK FENCE
		TREELINE
		SUBJECT PARCEL PROPERTY LINE
		ADJACENT PARCEL PROPERTY LINE
		RIGHT-OF-WAY LINE
		SETBACK LINE
		LINE OF DRAINAGE LINE
		MAJOR CONTOUR
		MINOR CONTOUR
		WATER BAR
		UTILITY POLE W/O LIGHT

QUANTITIES TABLE

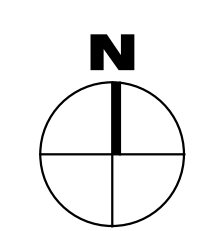
GRADING QUANTITIES	
CUT	± 1,511 CY
FILL	± 4,781 CY
WATER BAR	15,377 LF

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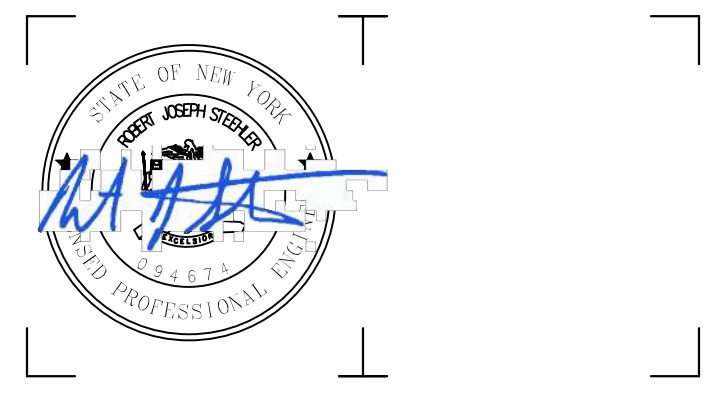


1 KEY PLAN
SCALE: 1" = 750'

2 GRADING & DRAINAGE PLAN
SCALE: 1" = 80'



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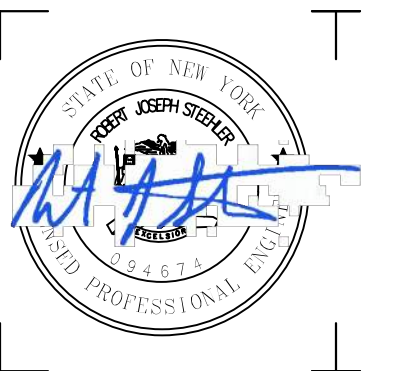


2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1
1902 RILEY RD.
CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2201200.08
DRAWN BY:		JMA & BER
REVIEWED BY:		RJS
ISSUED FOR:		REVIEW
DATE:		DECEMBER 2020
DRAWING NAME:		

**GRADING & DRAINAGE PLAN
PLAN
(SHEET 2 OF 2)**

DRAWING NUMBER:



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JUNO BEACH, FL 33408



**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 OWNERS 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

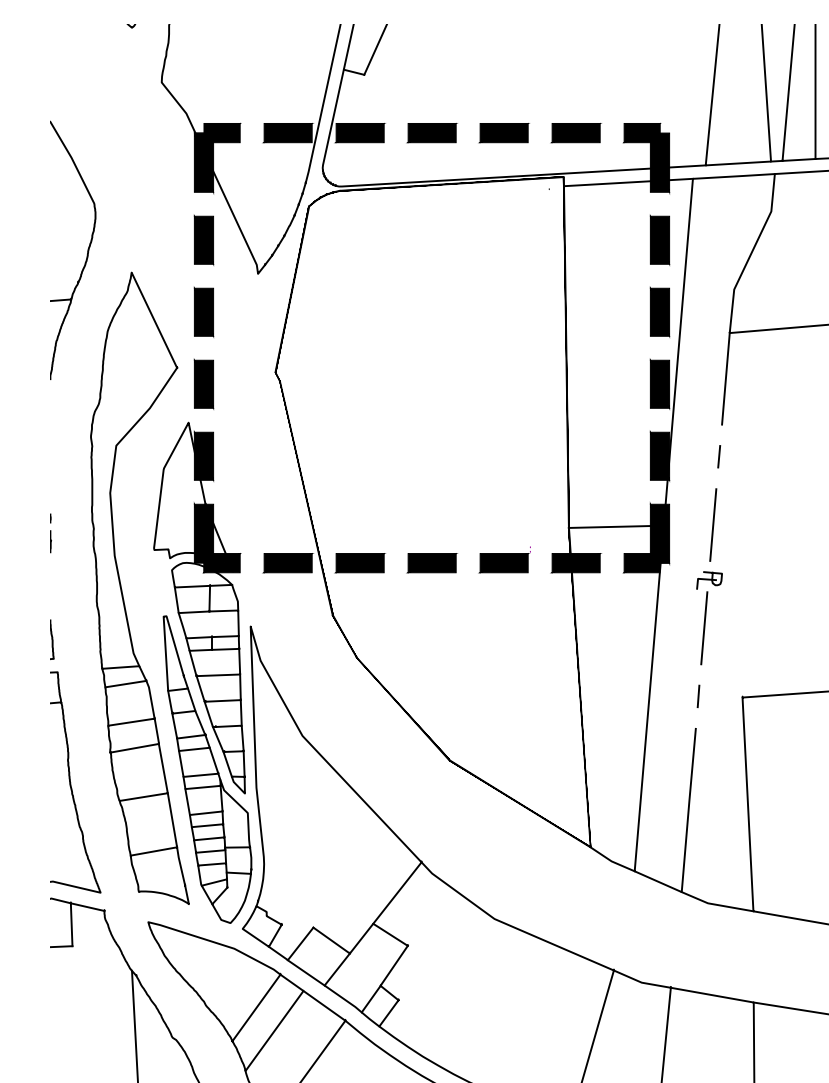
STABILIZED ENTRANCE GRAVEL	± 1,627 SF
SILT FENCE	± 2,023 LF
FILTER SOCK	± 2,014 LF
CONCRETE WASHOUT	1
TOTAL DISTURBANCE AREA (AREA TO RECEIVE STRAW)	± 36.96 ACRES

NOTE:

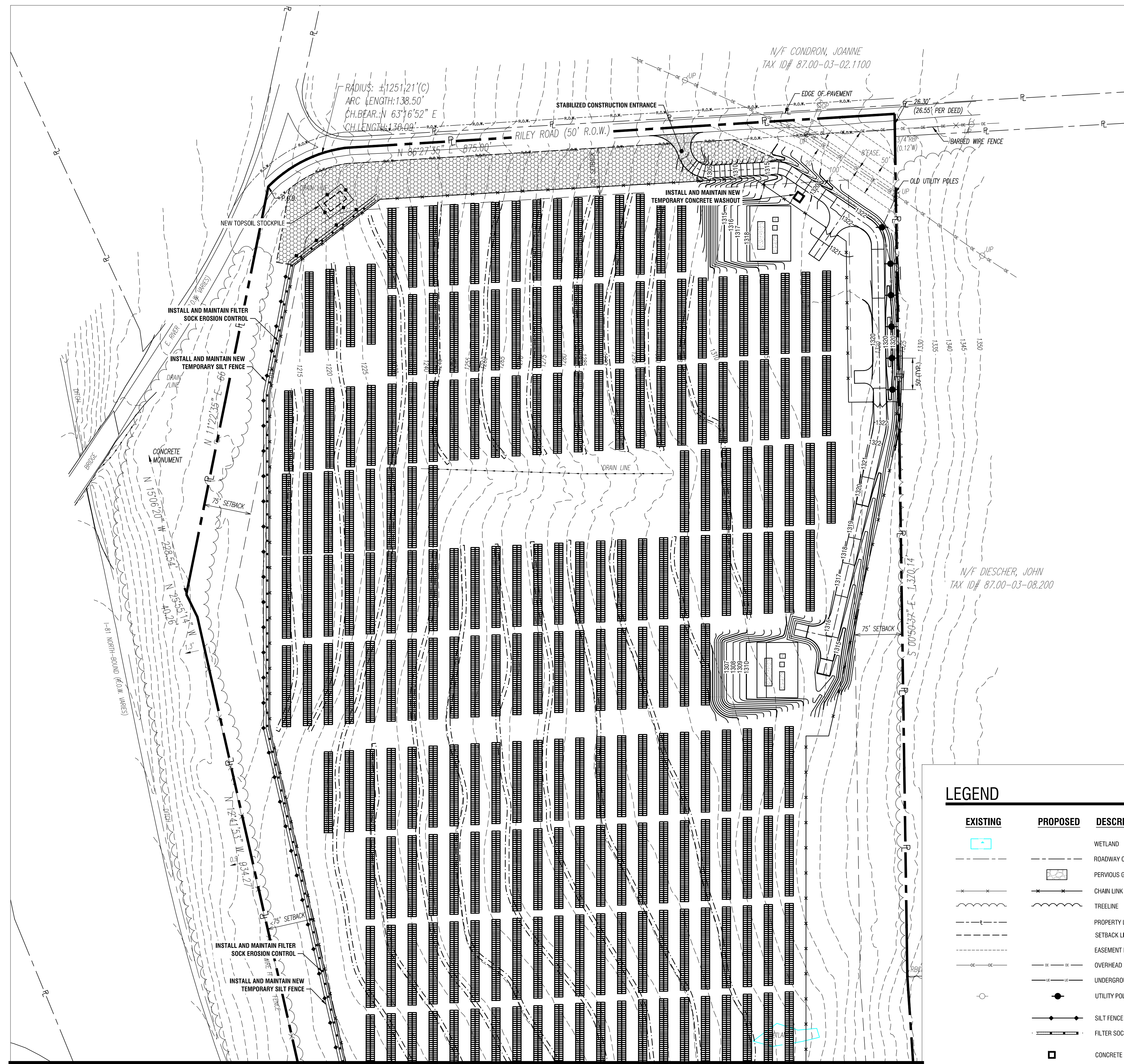
QUANTITIES ARE FOR ENTIRE SITE AND ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY PROPOSED QUANTITIES BASED ON DESIGN PRIOR TO BID.

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)

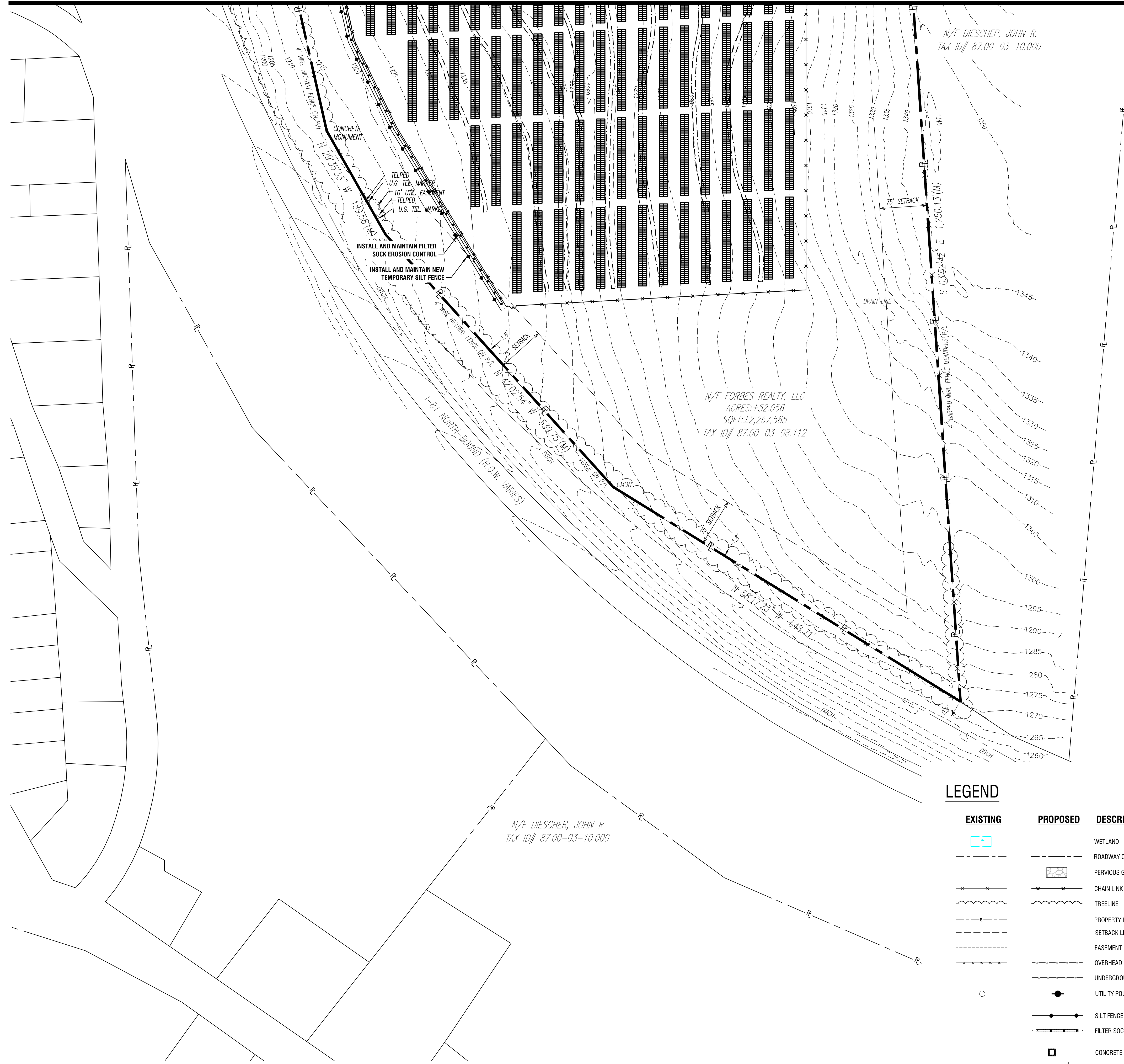


KEY PLAN
SCALE: 1" = 750'



MATCH TO SHEET C-502

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



EROSION & SEDIMENT CONTROL 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.
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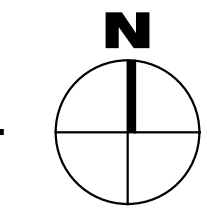
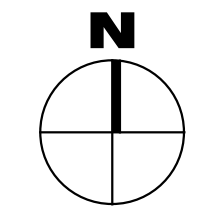
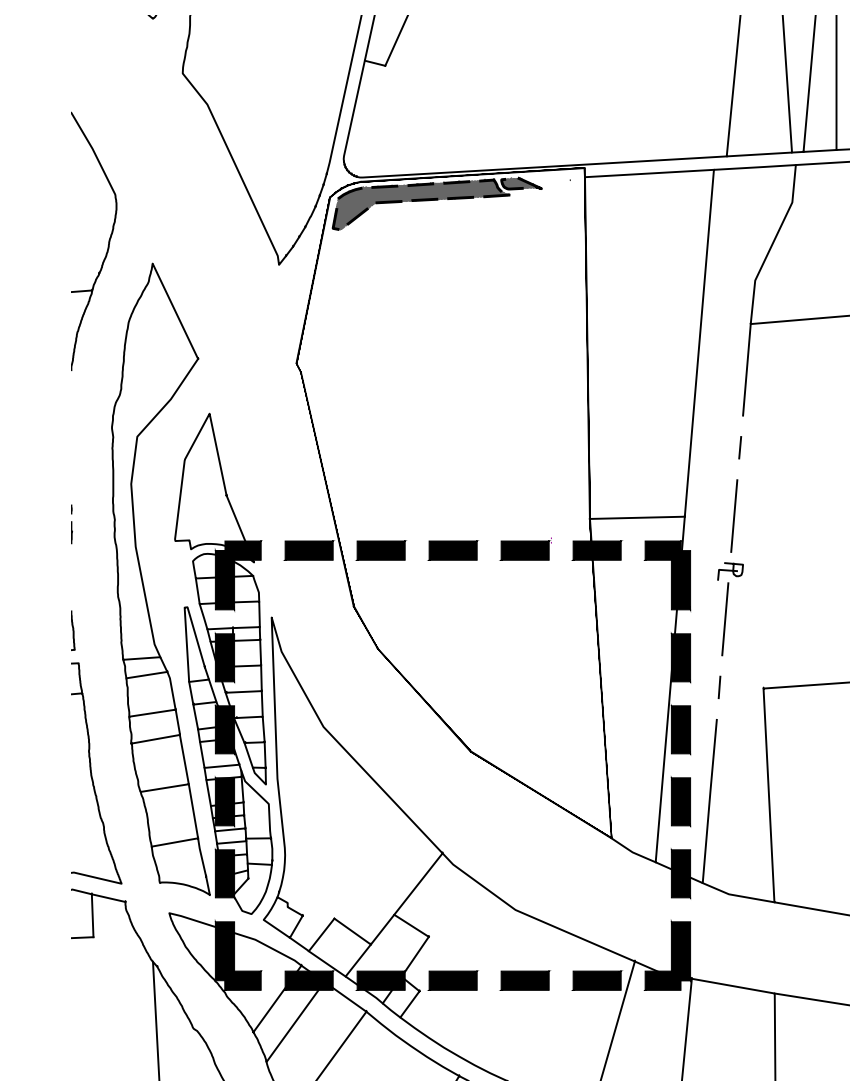
QUANTITIES TABLE

EROSION CONTROL QUANTITIES	
STABILIZED ENTRANCE GRAVEL	± 1,627 SF
SILT FENCE	± 2,023 LF
FILTER SOCK	± 2,014 LF
CONCRETE WASHOUT	1
TOTAL DISTURBANCE AREA (AREA TO RECEIVE STRAW)	± 36.96 ACRES

NOTE:
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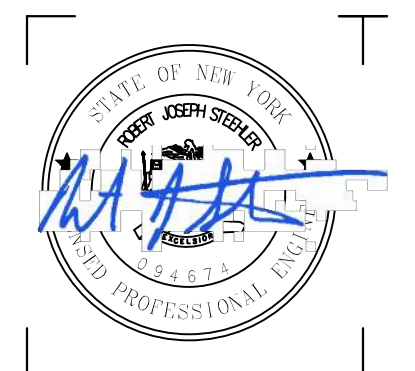
LEGEND

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)



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:		DECEMBER 2020
DRAWING NAME:		

EROSION & SEDIMENT CONTROL PLAN (SHEET 2 OF 2)

DRAWING NUMBER:

12/17/2020 4:54:13 PM \\PROJECTS\PROJECTS\DRAWINGS\CIVIL\AUTOCAD\CONSTRUCT\500- EROSION & SEDIMENT CONTROL PLANDWG



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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

DRAWN BY: JMA & BER

REVIEWED BY: RJS

ISSUED FOR: REVIEW

DATE: DECEMBER 2020

DRAWING NAME:

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

DRAWING NUMBER:

C601

LANDSCAPING NOTES

- 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.

KEYSTONE PERENNIAL RYEGRASS	25	% PURITY	85	% GERMINATION	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: 18-24-12 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 II HARD FESCUE					
10% MINOTAUR HARD FESCUE					
15% XERCOS 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.
- LANDSCAPE MATERIALS SHALL BE INSTALLED BY LOCAL COMPANIES FAMILIAR WITH THE CONDITIONS IN THIS AREA THAT EMPLOY NYS CERTIFIED NURSERY PROFESSIONALS.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		GRAVEL PAVEMENT
		CHAIN LINK FENCE
		TREELINE
		SUBJECT PARCEL PROPERTY LINE
		ADJACENT PARCEL PROPERTY LINE
		RIGHT-OF-WAY LINE
		SETBACK LINE
		UTILITY POLE W/O LIGHT
		LAWN SEED MIX
		WILDFLOWER/ POLLINATOR SEED MIX

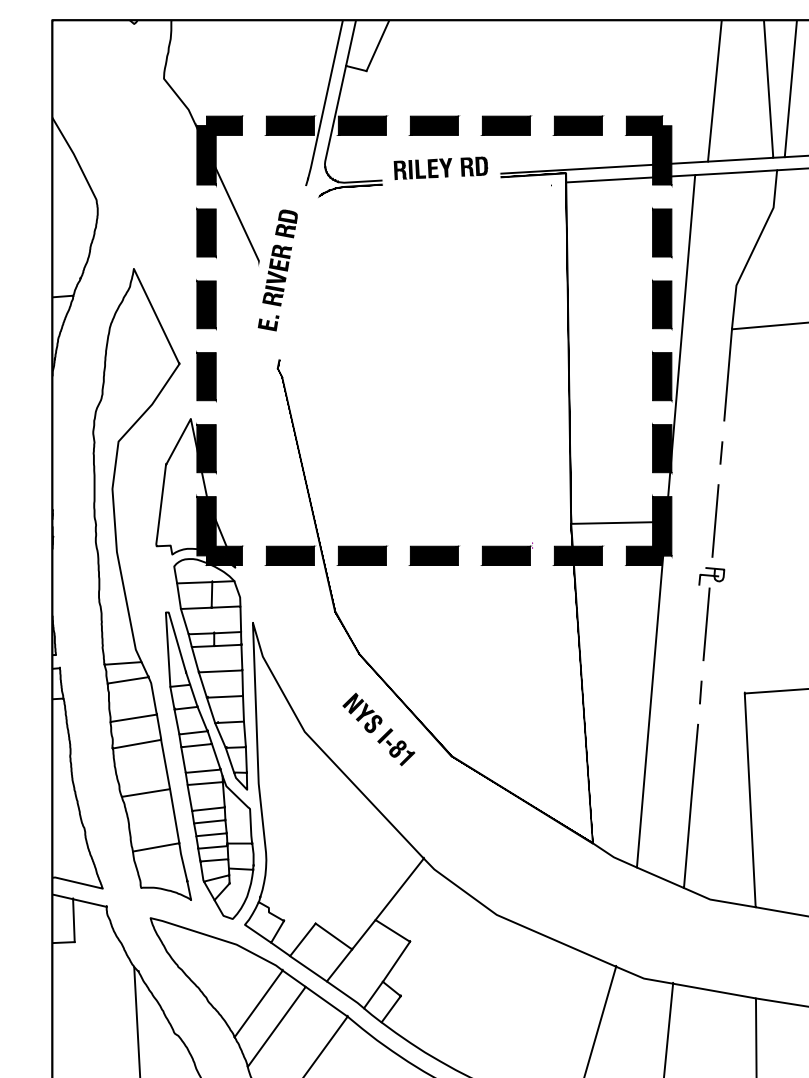
QUANTITIES TABLE

LANDSCAPING QUANTITIES

LAWN SEED MIX	± 2 ACRES
WILDFLOWER/ POLLINATOR SEED MIX	± 35 ACRES

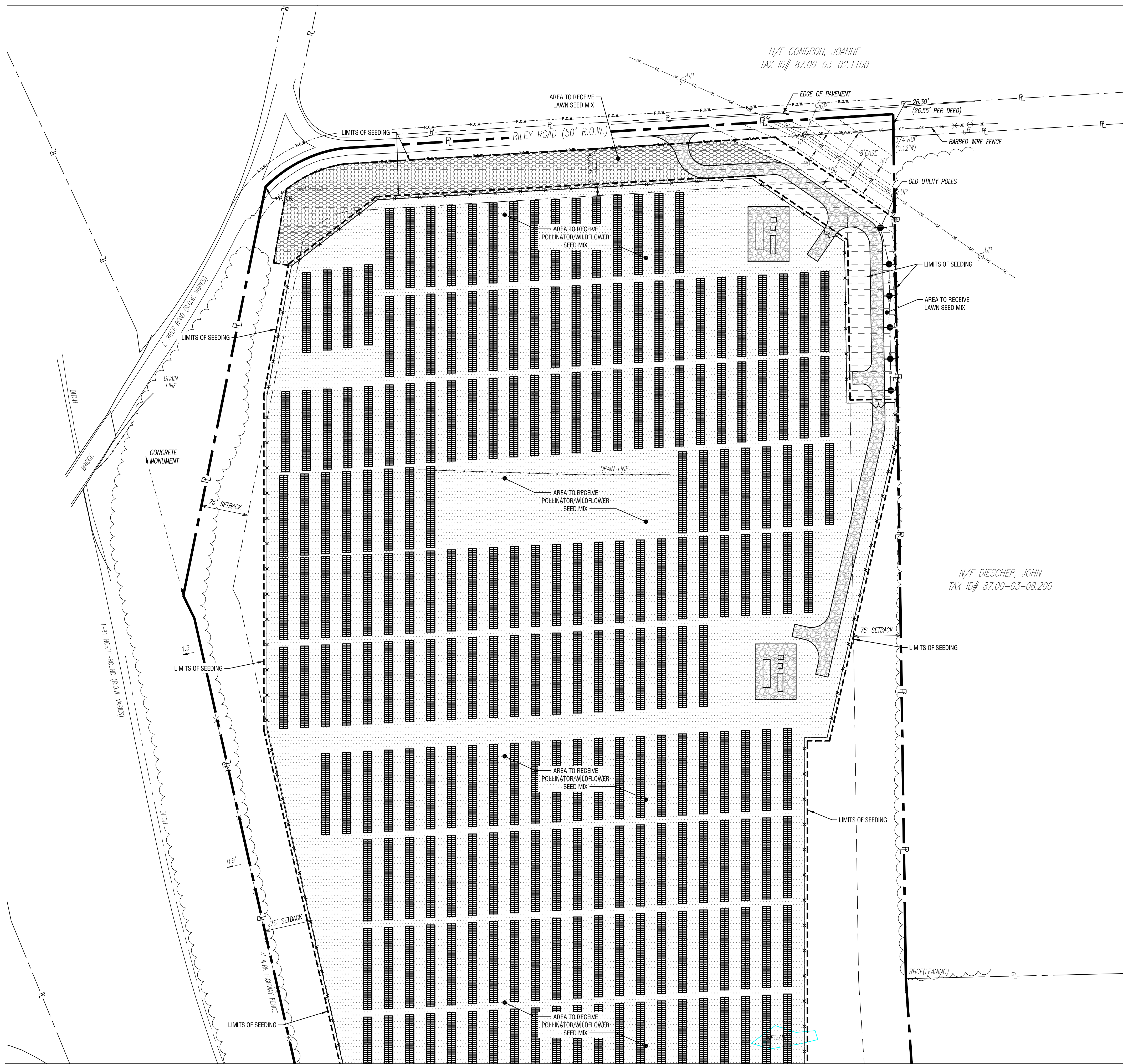
NOTE:

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KEY PLAN

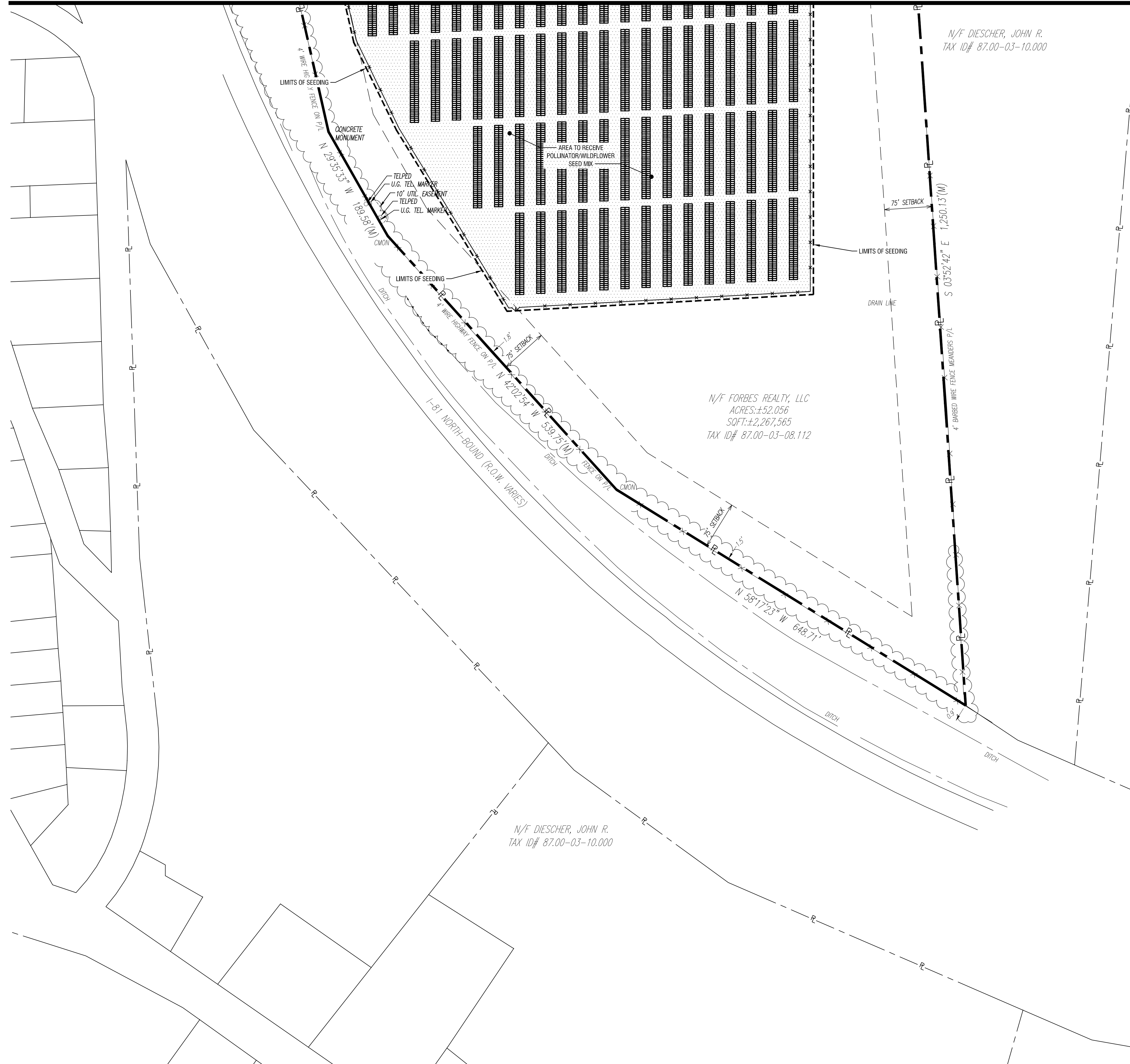
SCALE: 1" = 750'



MATCH TO SHEET C-602

2 LANDSCAPING PLAN
SCALE: 1" = 80'





LANDSCAPING NOTES

- 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.
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KEYSTONE PERENNIAL RYEGRASS	% WEIGHT	% PURITY	% GERMINATION
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
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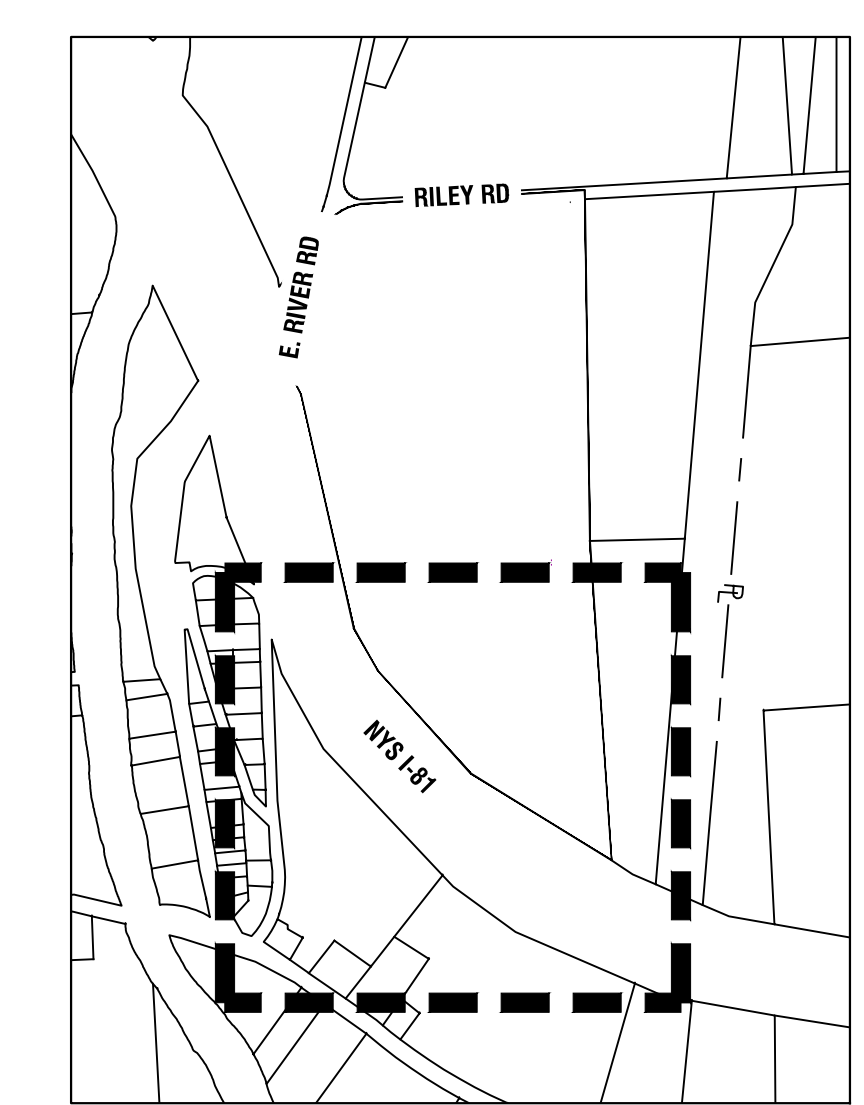
LEGEND

EXISTING	PROPOSED	DESCRIPTION
		WETLAND
		ROADWAY CENTERLINES
		GRAVEL PAVEMENT
		CHAIN LINK FENCE
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		RIGHT-OF-WAY LINE
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		UTILITY POLE W/O LIGHT
		LAWN SEED MIX
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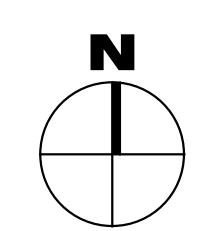
QUANTITIES TABLE

LANDSCAPING QUANTITIES	
LAWN SEED MIX	±2 ACRES
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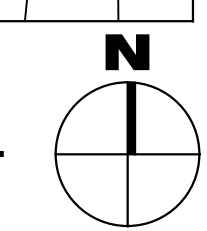
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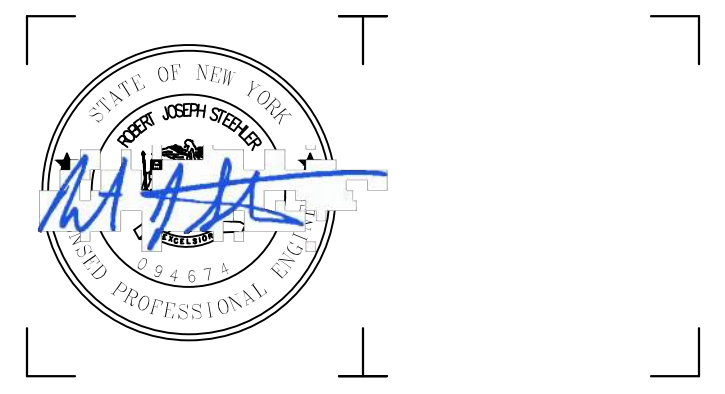
2 LANDSCAPING PLAN
 SCALE: 1" = 80'



1 KEY PLAN
 SCALE: 1" = 750'



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



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NEXTERA ENERGY
 700 UNIVERSE BLVD.
 JUNO BEACH, FL 33408

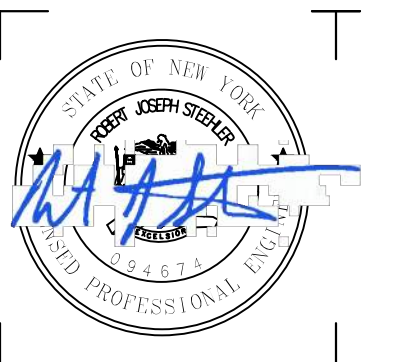


2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1
 1902 RILEY RD.
 CORTLANDVILLE, NY 13045

NO.	DATE	DESCRIPTION
Revisions		
PROJECT NUMBER:		2201200.08
DRAWN BY:		JMA & BER
REVIEWED BY:		RJS
ISSUED FOR:		REVIEW
DATE:		DECEMBER 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

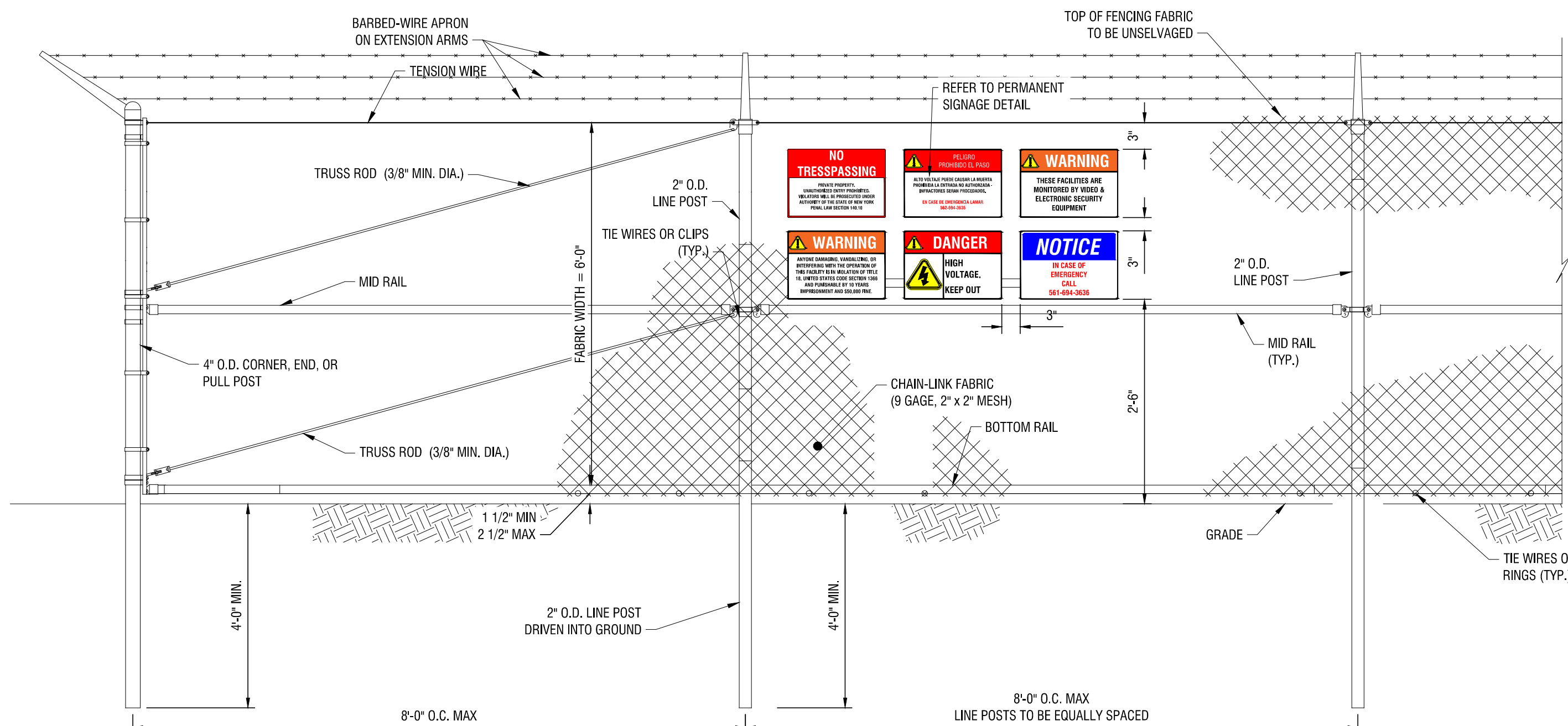
DATE: DECEMBER 2020

DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

C701

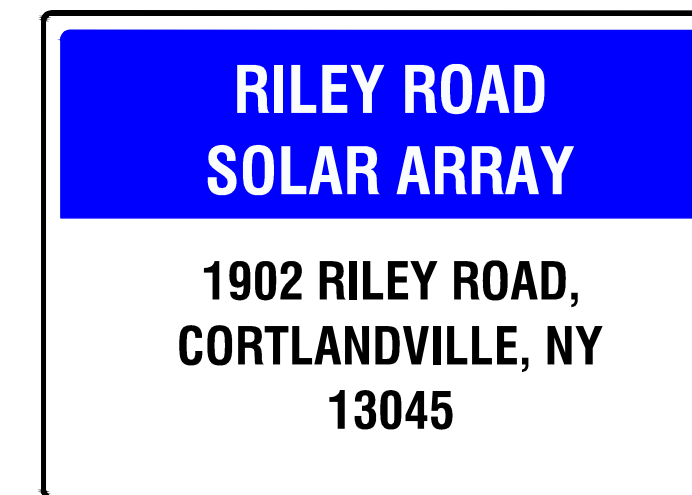
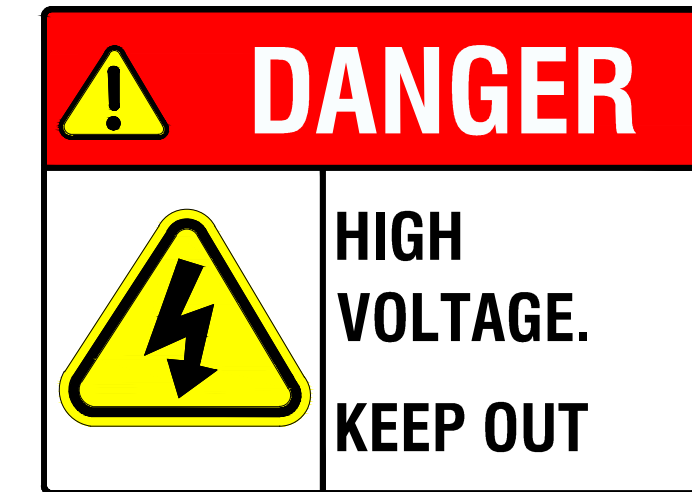


NOTES:

1. SIGNS SHALL BE INSTALLED IN GROUPS EVERY 300'
2. DO NOT INSTALL CONCRETE FOUNDATIONS IN WETLANDS

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

C-701 N.T.S.

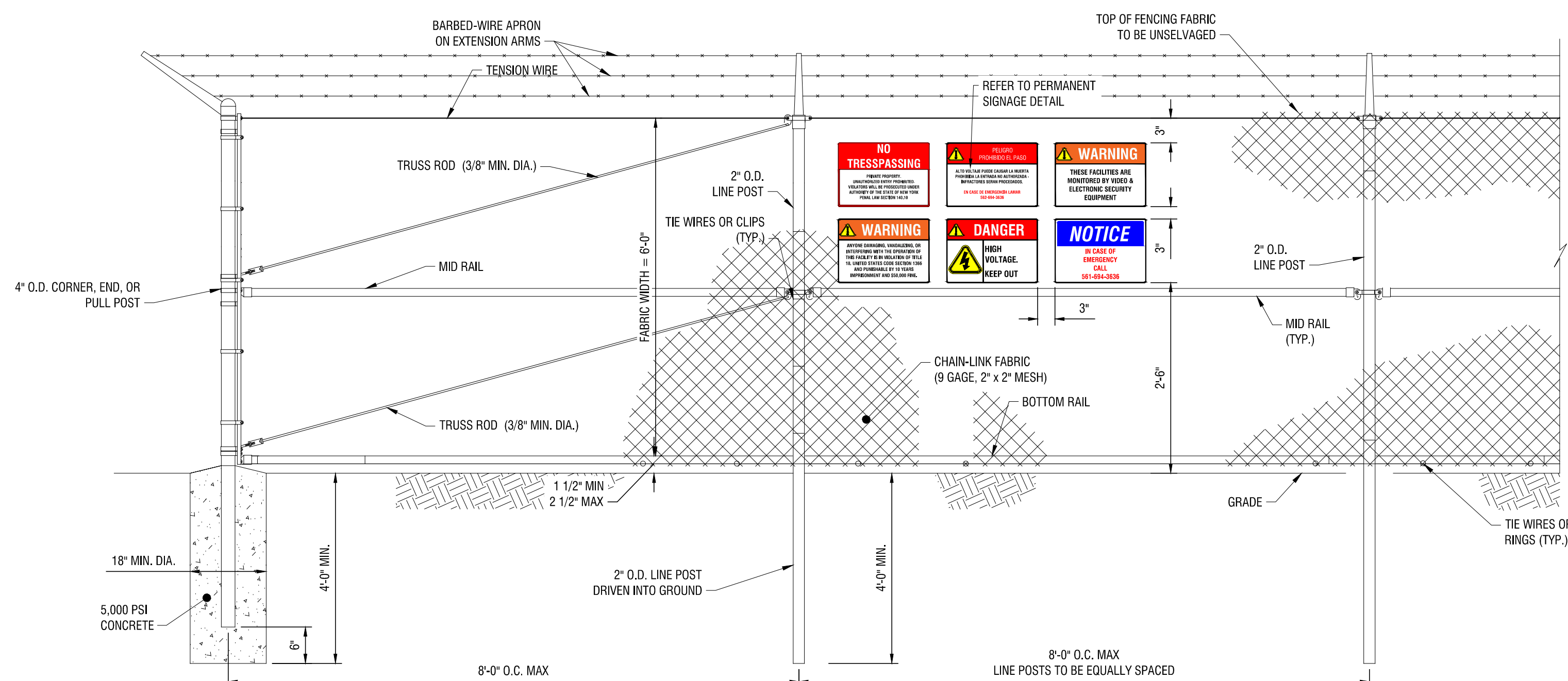


NOTES:

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.

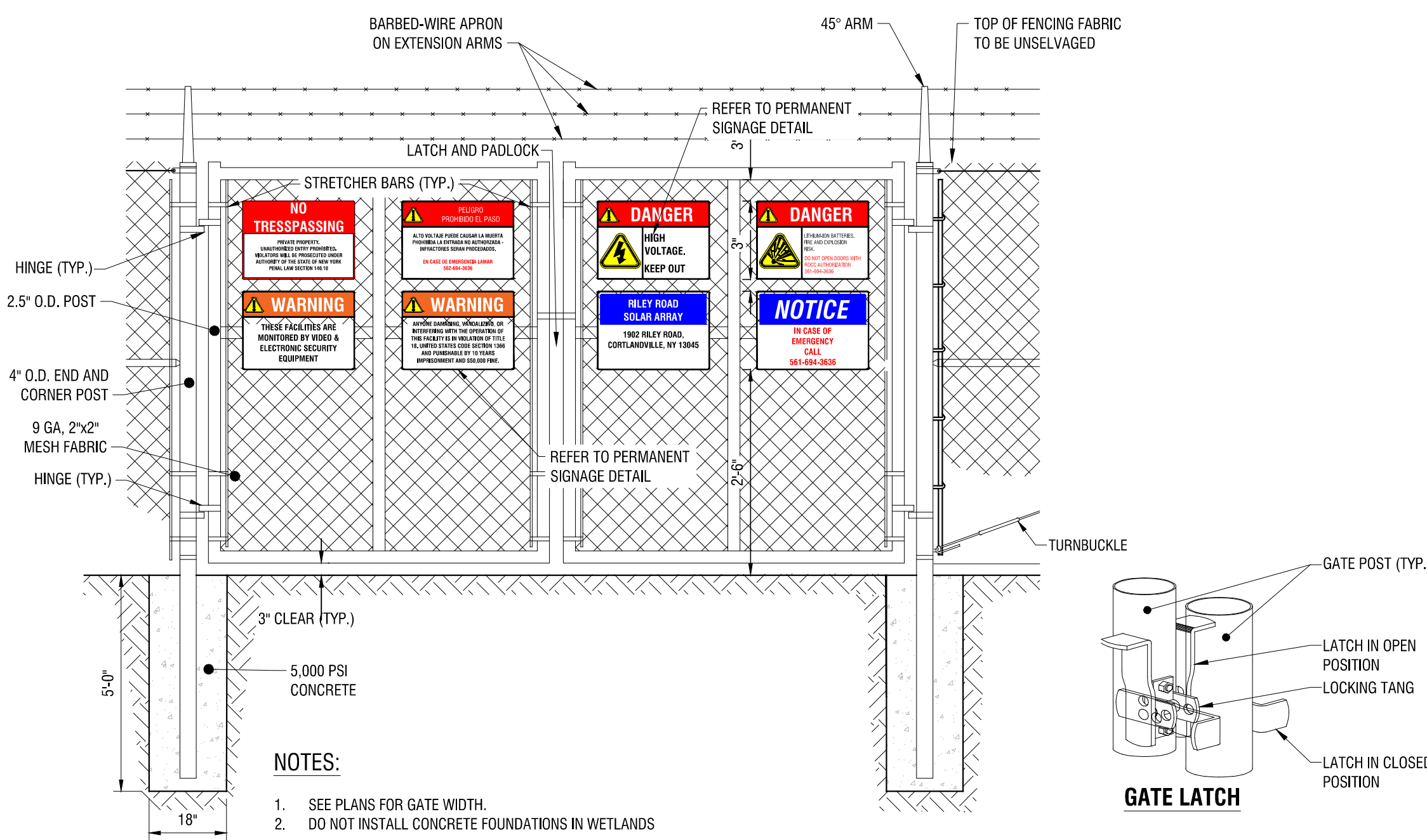


NOTES:

1. SIGNS SHALL BE INSTALLED IN GROUPS EVERY 300'
2. DO NOT INSTALL CONCRETE FOUNDATIONS IN WETLANDS

1 6' HIGH BARBED WIRE HIGH SECURITY FENCE

C-701 N.T.S.

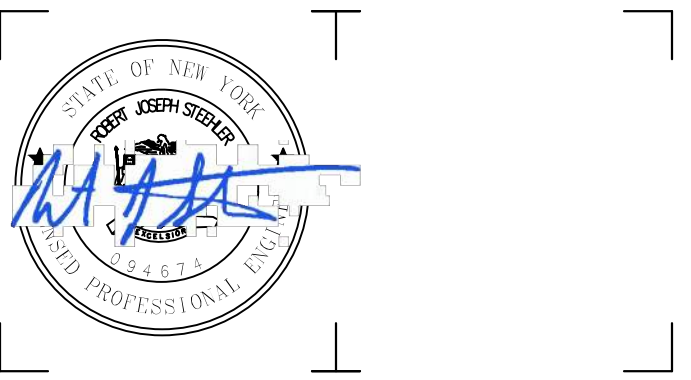


NOTES:

1. SEE PLANS FOR GATE WIDTH.
2. DO NOT INSTALL CONCRETE FOUNDATIONS IN WETLANDS

2 6' TALL DOUBLE SWING GATE

C-701 N.T.S.



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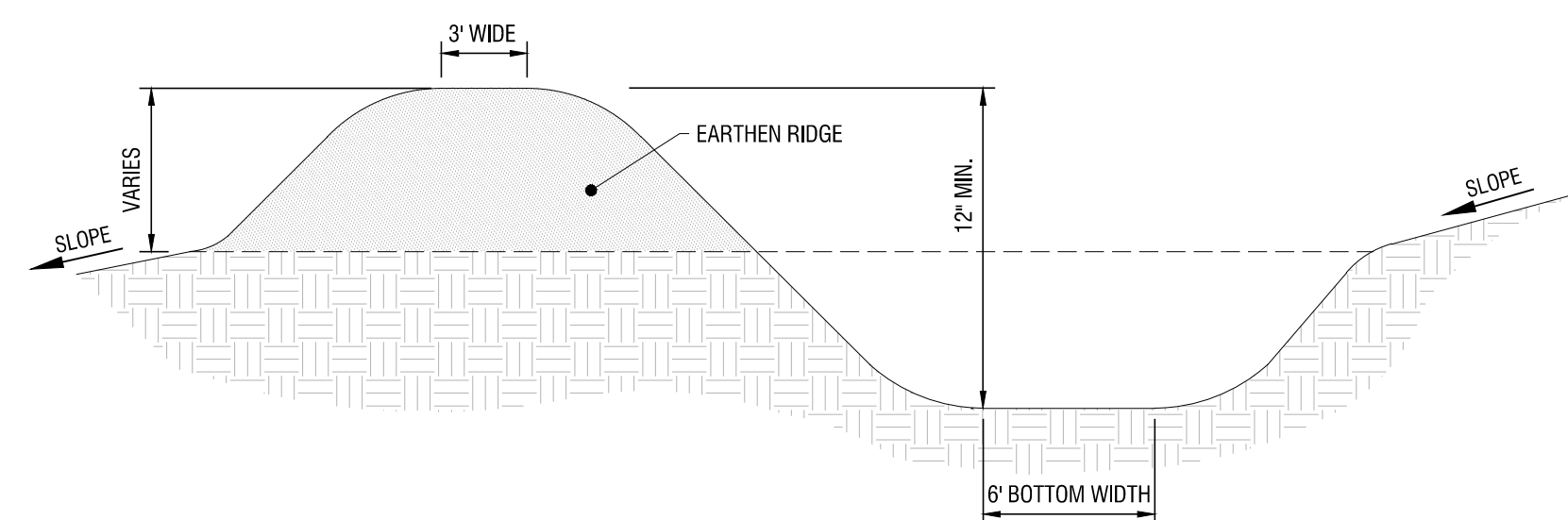
NEXTERA ENERGY

700 UNIVERSE BLVD.
JUNO BEACH, FL 33408

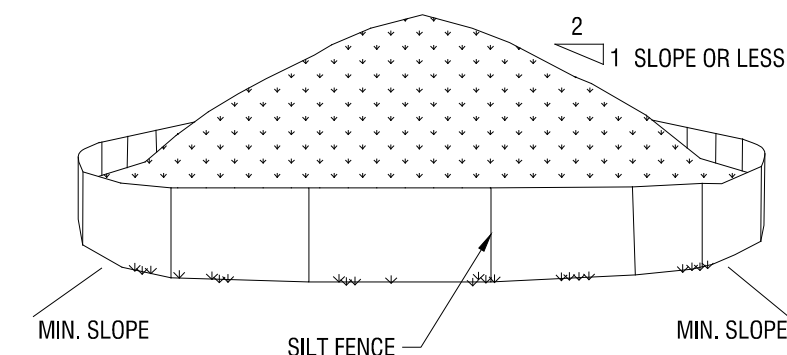


2020 NY GREENFIELD PV DESIGN - RILEY ROAD 1

1902 RILEY RD.
CORTLANDVILLE, NY 13045

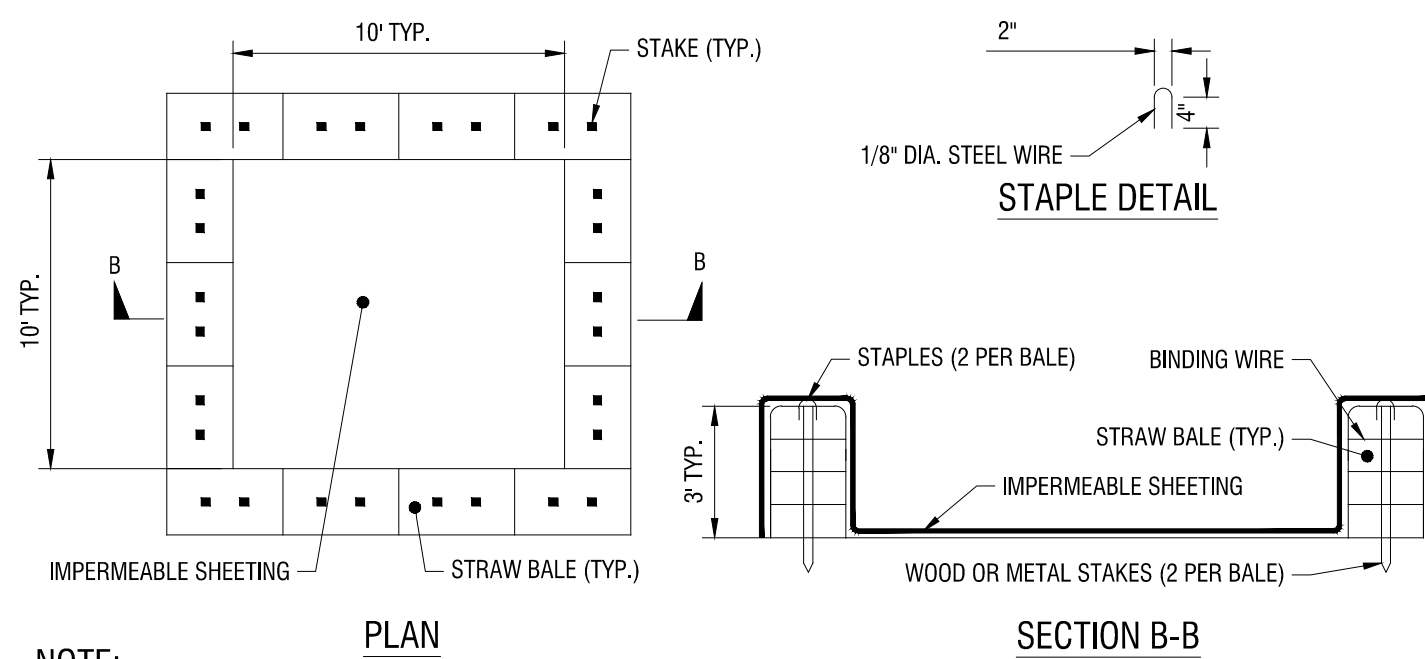


7 WATER BAR
C-701 N.T.S.



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

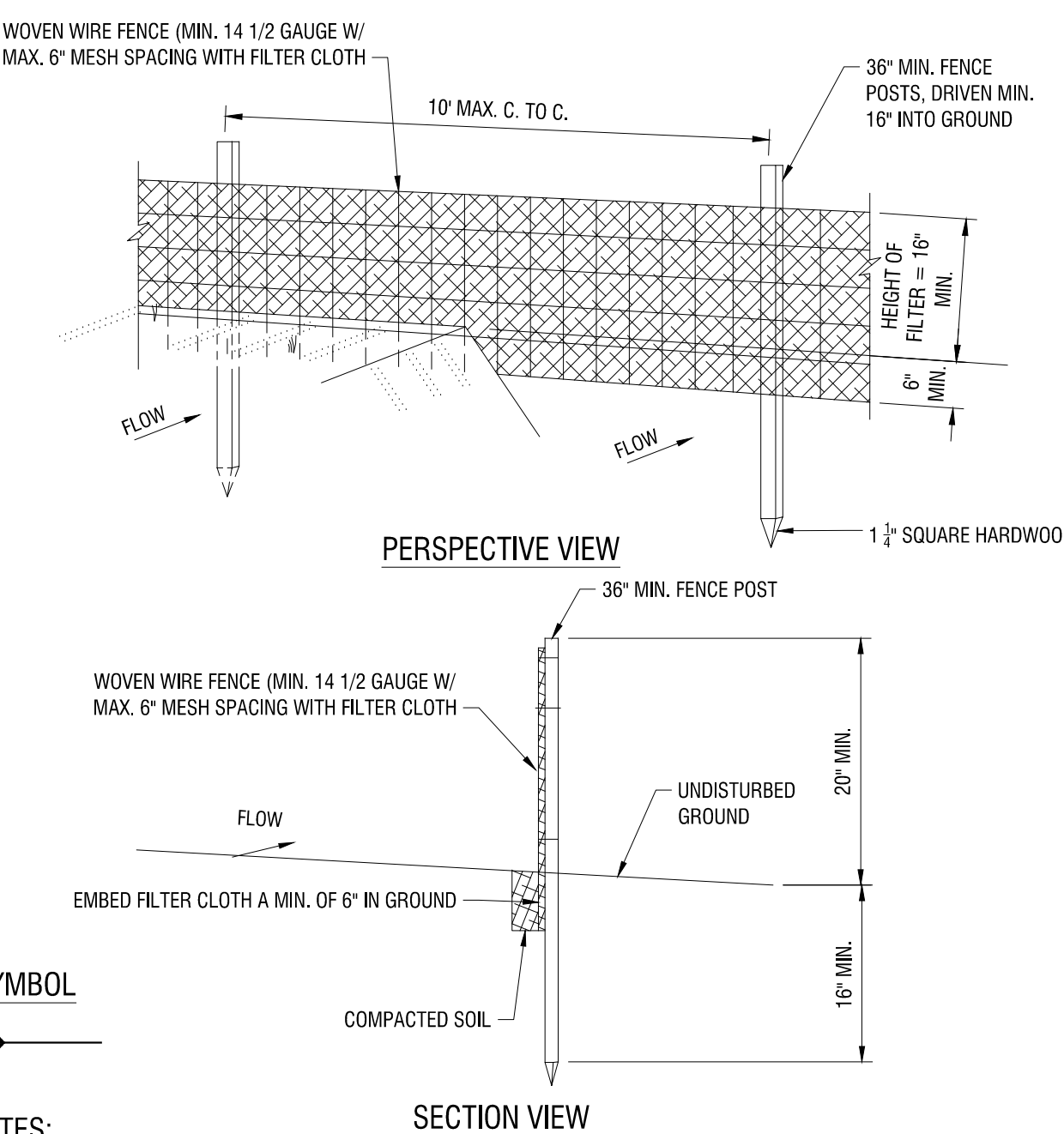


- NOTE:**
1. CAN BE TWO STACKED BALES OR PARTIALLY EXCAVATED TO REACH 3 FT DEPTH

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

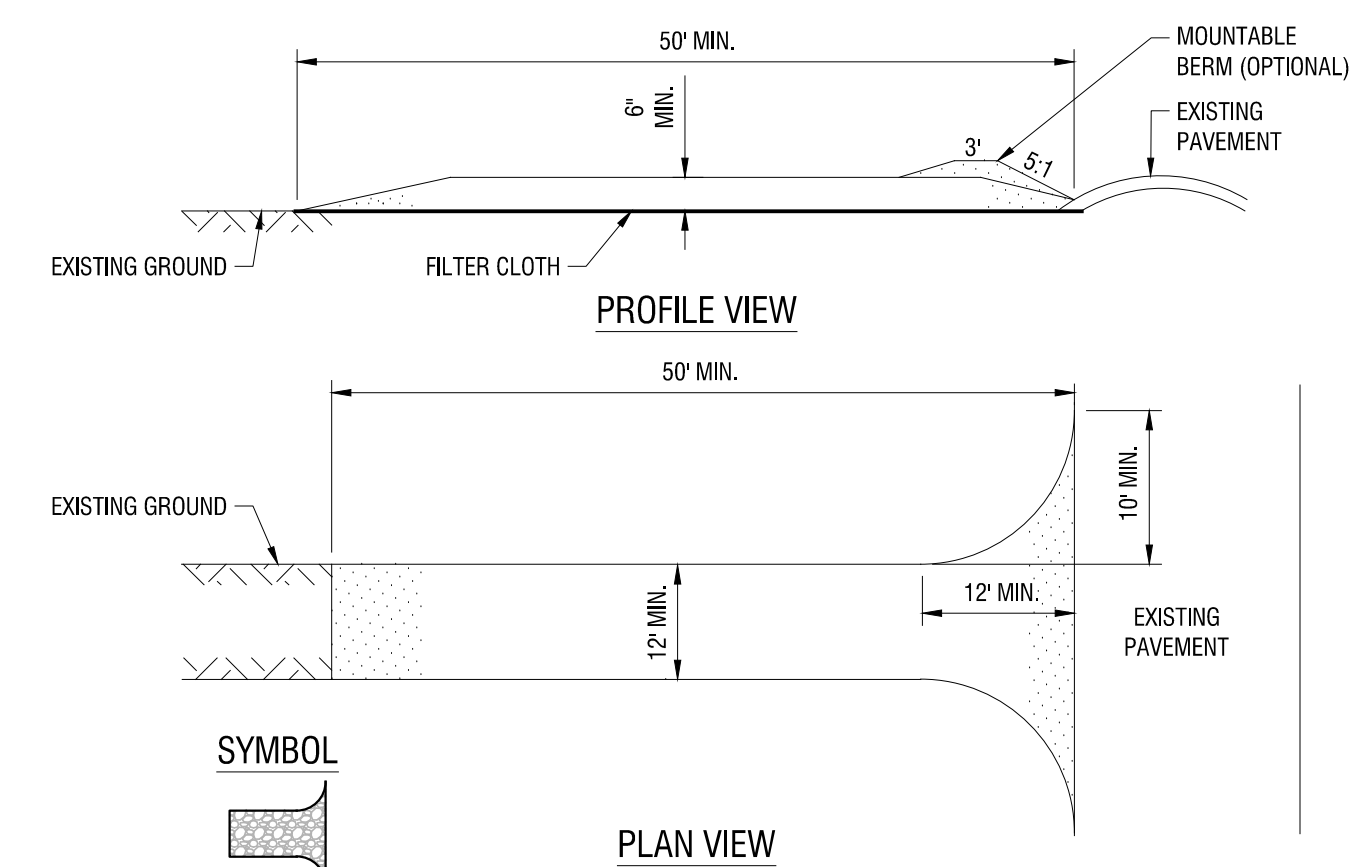


SYMBOL

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, MIRAF 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 SILT FENCE
C-702 N.Y.S DEC DETAIL: SILT FENCE



SYMBOL

CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWENTY-FOUR (24) FOOT.
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 STABILIZED CONSTRUCTION ENTRANCE
C-702 N.Y.S DEC DETAIL: STABILIZED CONSTRUCTION ACCESS

NO.	DATE	DESCRIPTION
Revisions		

PROJECT NUMBER: 2201200.08

DRAWN BY: BJR

REVIEWED BY: RJS

ISSUED FOR: REVIEW

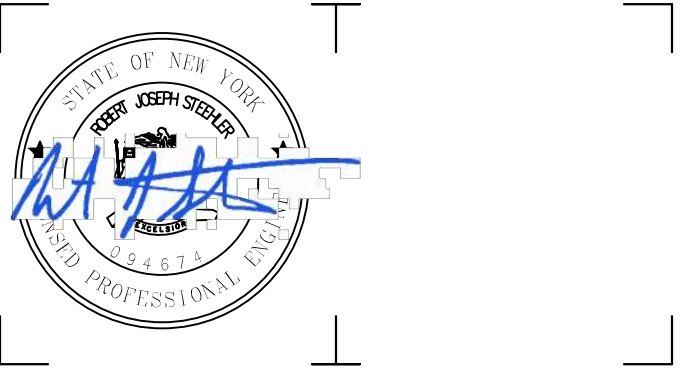
DATE: DECEMBER 2020

DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

C702



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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: BER

REVIEWED BY: DG

ISSUED FOR: REVIEW

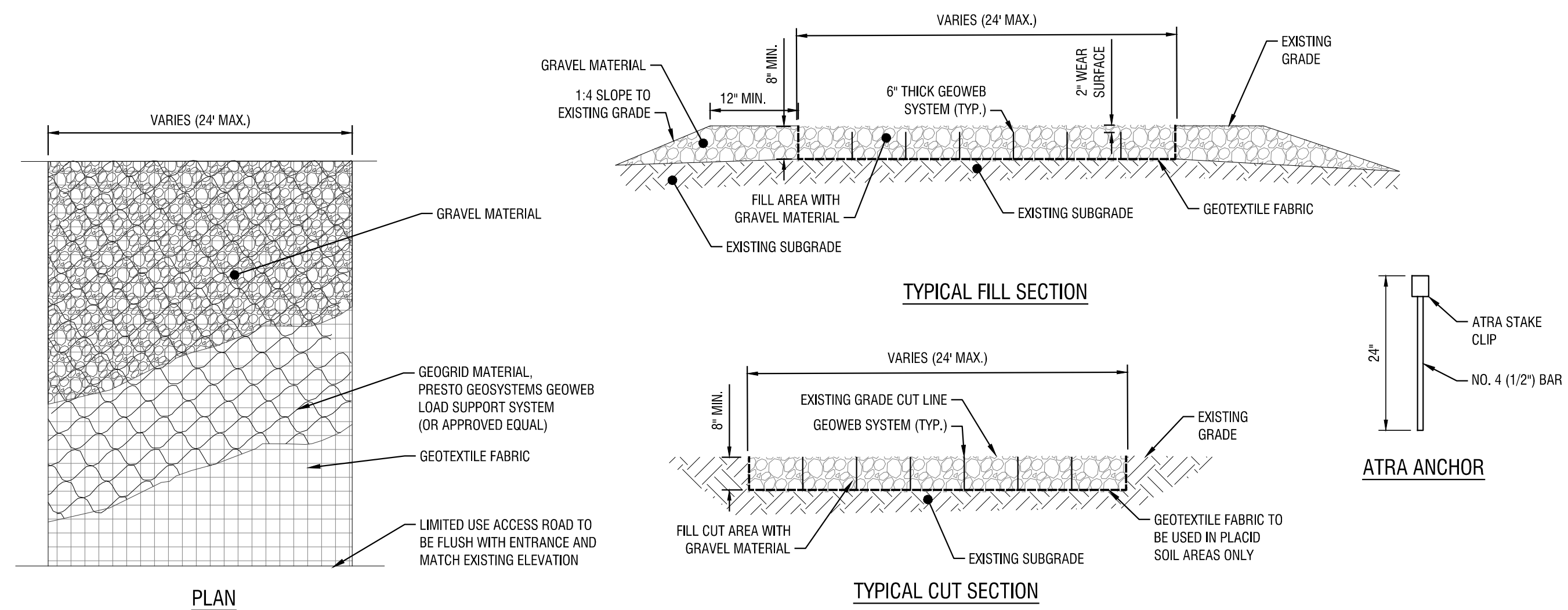
DATE: DECEMBER 2020

DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

C703



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 SHALL 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 1-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.

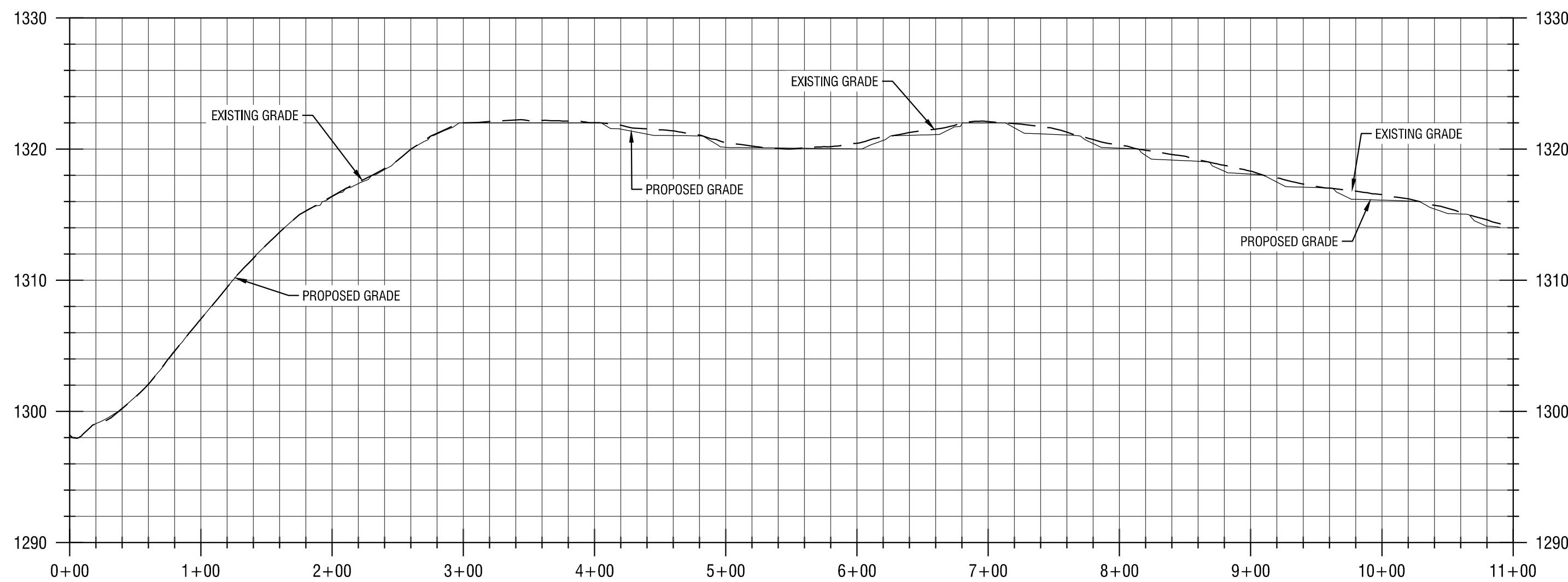
BASIS OF DESIGN: PRESTO GEOSYSTEMS GEOWEB; 670 NORTH PERKINS STREET, APPLETON, WI; 800-548-3424 OR 920-738-1222; INFOR@PRESTOCEO.COM; WWW.PRESTOCEO.COM

WOVEN GEOTEXTILE MATERIAL NOTES:

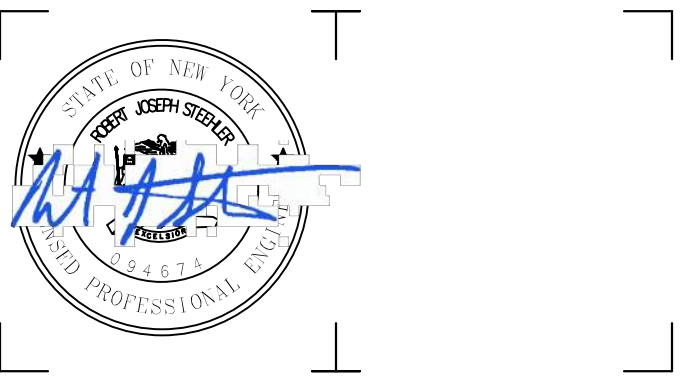
1. SPECIFIED GEOTEXTILE WILL ONLY BE UTILIZED IN PLACID SOILS. PLACID SOILS CONSIST OF POORLY DRAINED SOILS COMPOSED OF FINELY TEXTURED PARTICLES AND ARE PRONE TO RUTTING. PLACID SOILS ARE TYPICALLY PRESENT IN LOW-LYING AREAS WITH HYDROLOGIC SOILS GROUP (HSG) OF C OR D, OR AS SPECIFIED FROM AN ENVIRONMENTAL 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

1 LIMITED USE PERVIOUS ACCESS ROAD - 0% TO 10% SLOPES
N.T.S.



2 ACCESS ROAD PROFILE
SCALE: 1:80H
1:8V



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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: BER

REVIEWED BY: DG

ISSUED FOR: REVIEW

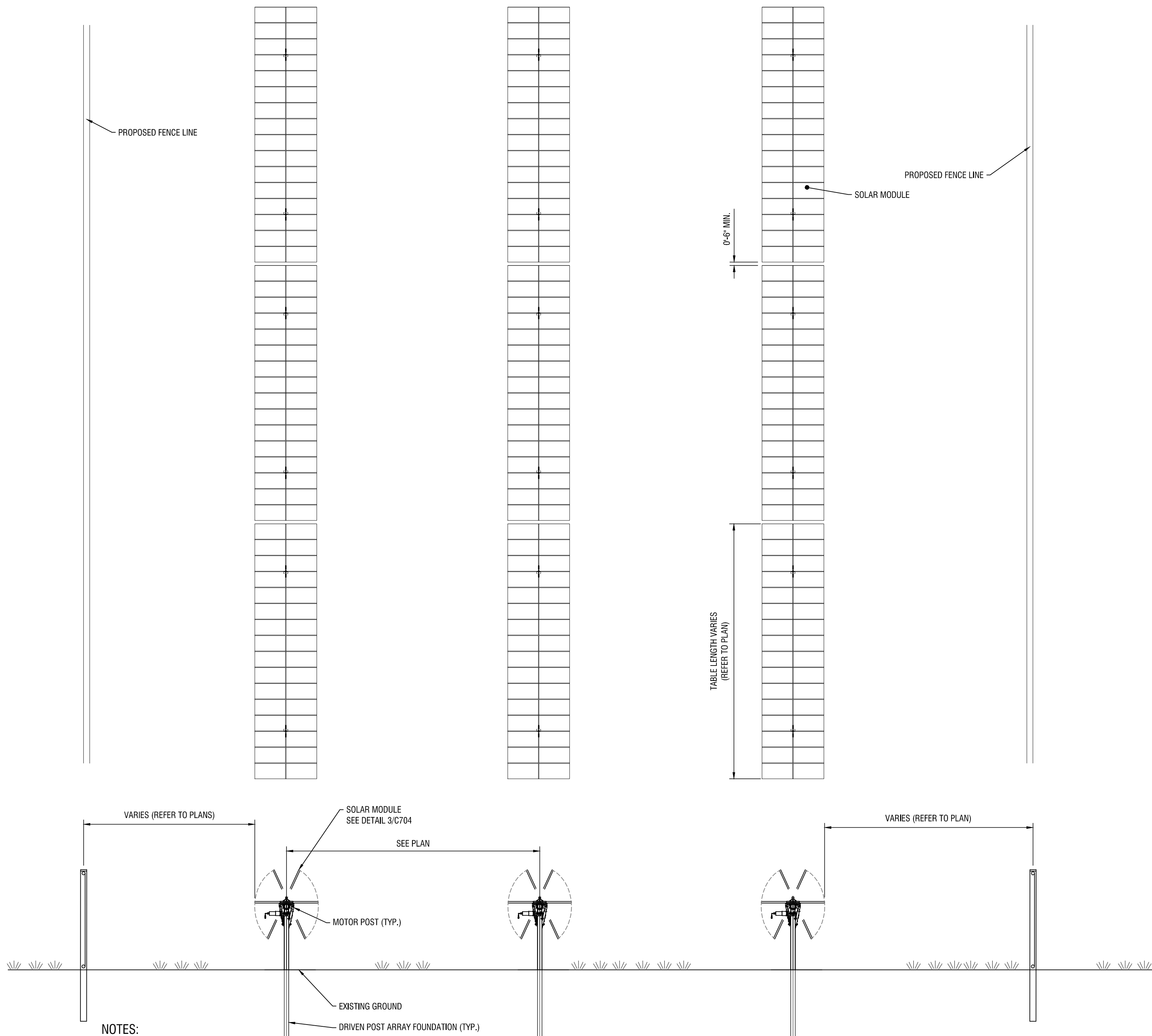
DATE: DECEMBER 2020

DRAWING NAME:

CONSTRUCTION DETAILS

DRAWING NUMBER:

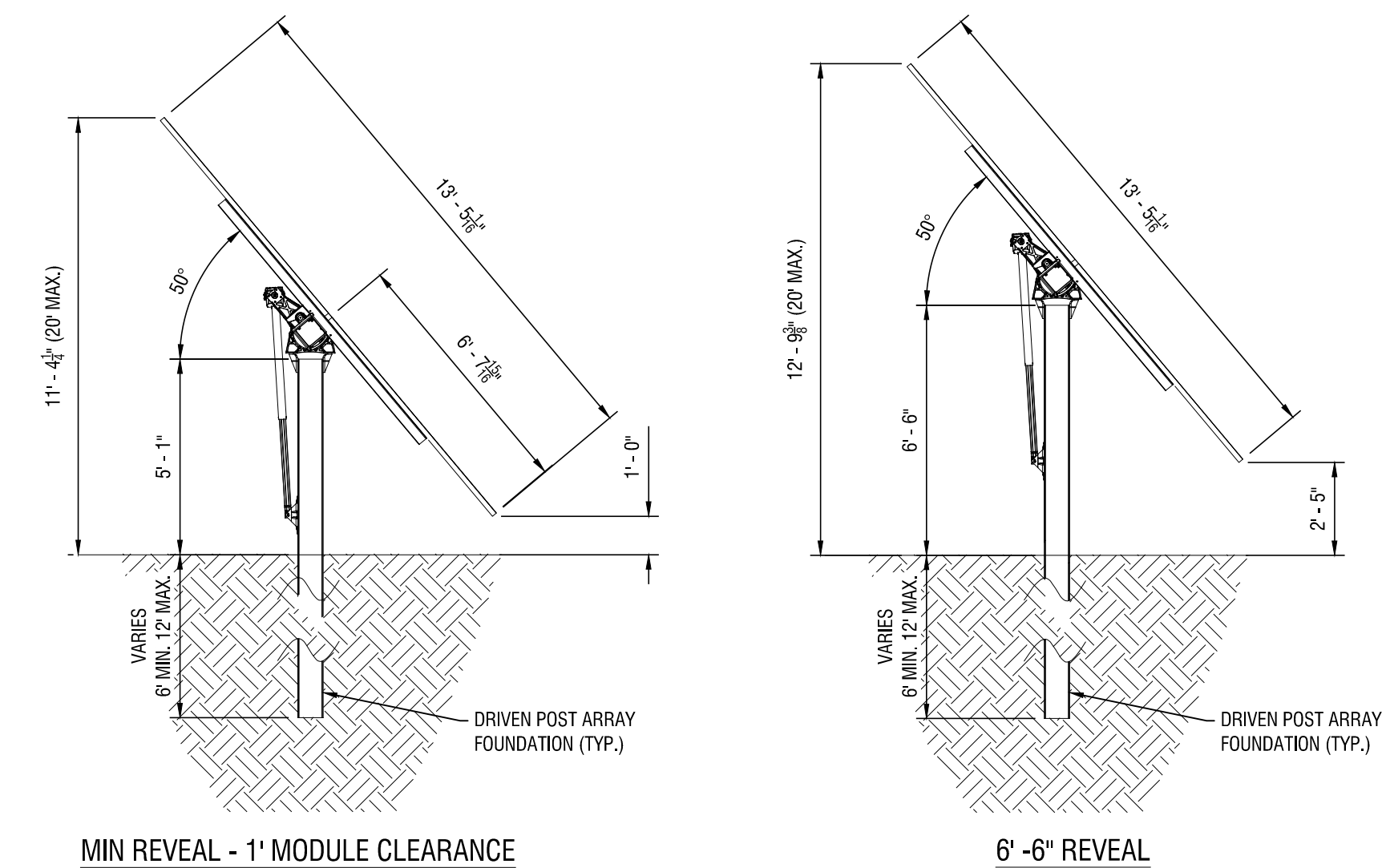
C704



- NOTES:**
- DO NOT INSTALL CONCRETE FOUNDATIONS IN WETLANDS

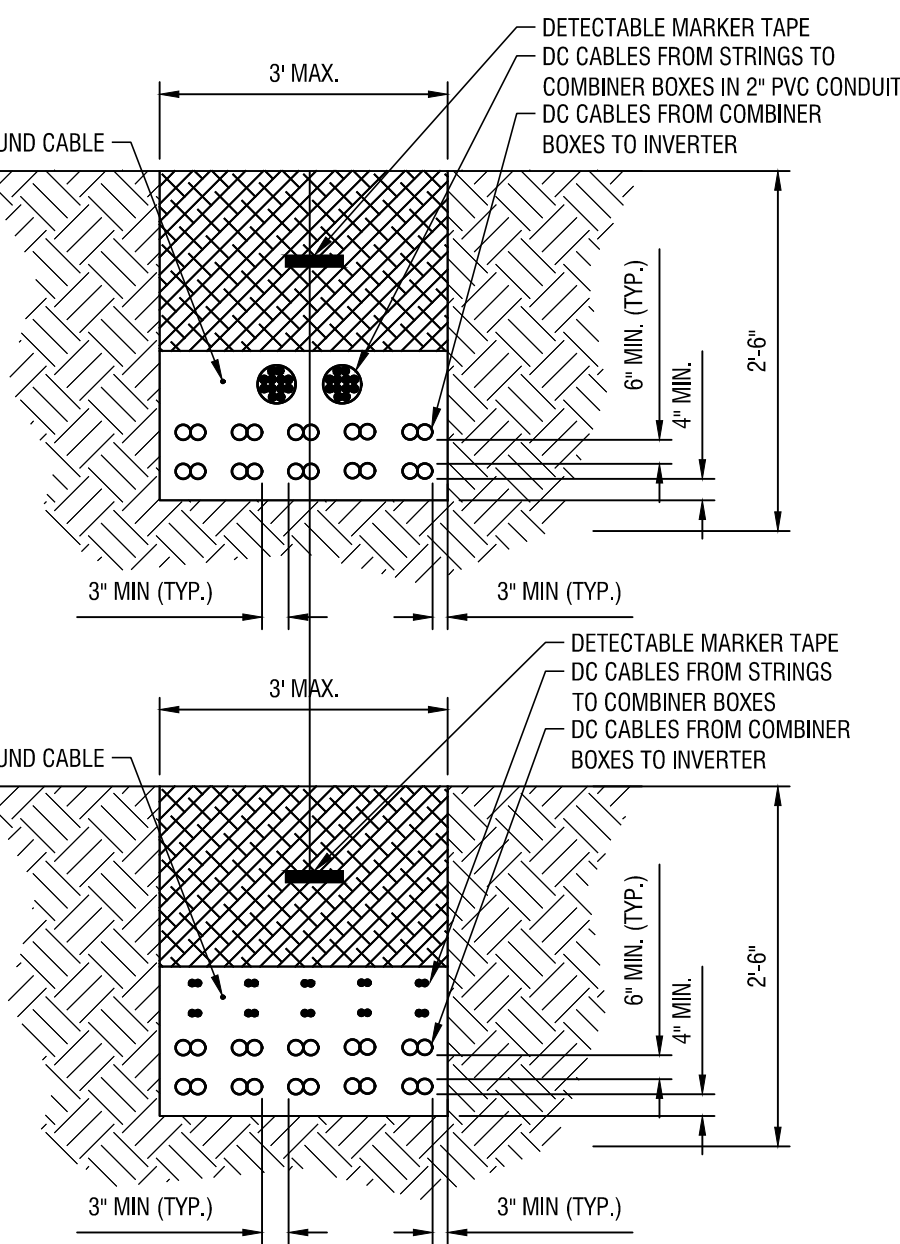
2 TYPICAL SITE LAYOUT

C-704 N.T.S.



3 SOLAR MODULE AND FRAME PROFILE

C-704 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 TYPICAL TRENCH DETAILS

C-704 N.T.S.