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## APPENDIX D – PROJECT SITE PLANS

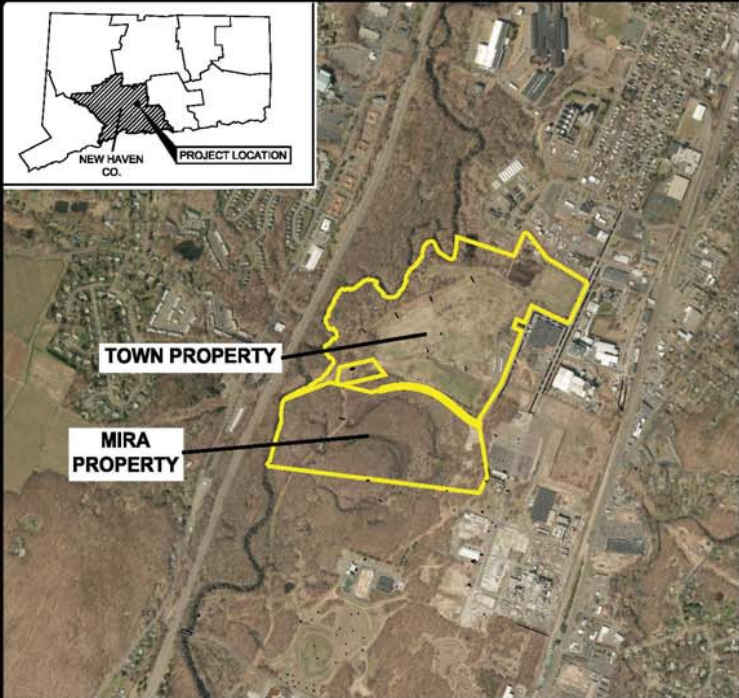


# WALLINGFORD RENEWABLE ENERGY

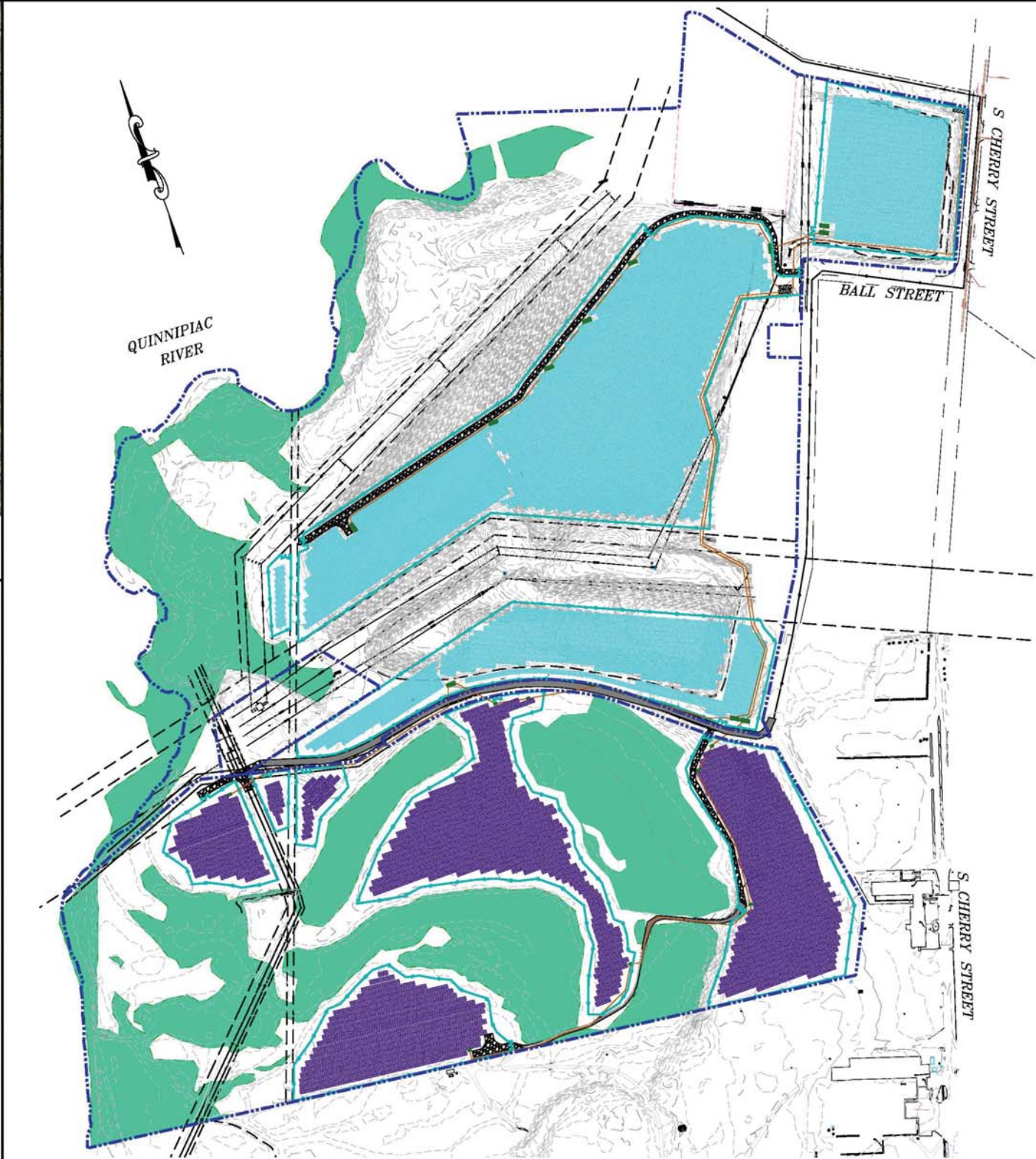
## NEW HAVEN COUNTY

### WALLINGFORD, CONNECTICUT

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**GENERAL LOCATION**



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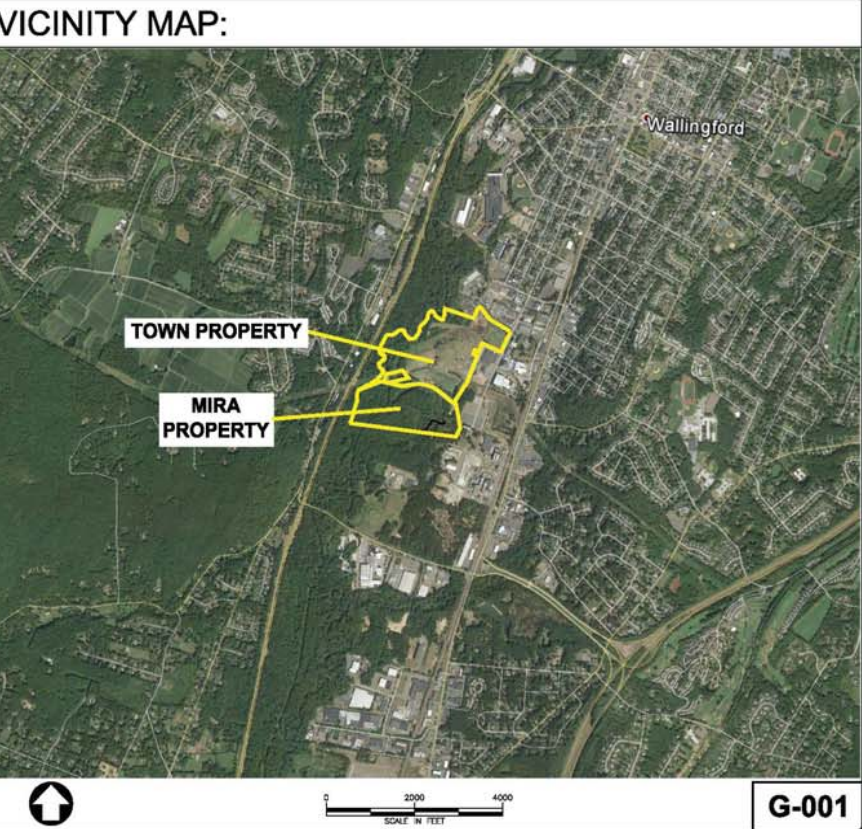
INDEX TO DRAWINGS	
DRAWING No.	DRAWING TITLE
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C-103	SOLAR PANEL LAYOUT CONFIGURATION - GENERAL SITE PLAN
C-104	SOLAR PANEL LAYOUT CONFIGURATION - GENERAL SITE PLAN
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C-113	SOLAR PANEL DETAILS - TYPICAL EXTERIOR RACKING STRUCTURE
C-114	SOLAR PANEL ELECTRICAL DETAILS
C-115	SOLAR PANEL - TRANSFORMER AND INVERTERS - ELECTRICAL DETAILS
C-116	CIVIL CONSTRUCTION DETAILS
C-117	FENCE AND GATE DETAILS
C-118	CONSTRUCTION SPECIFICATIONS

**PROJECT LOCATION:**  
WALLINGFORD, NEW HAVEN COUNTY  
CONNECTICUT

**Tt PROJECT No.:**  
194-9002

**PREPARED FOR:**  
*Wallingford Renewable Energy LLC*  
909 Lake Carolyn Pkwy, Suite 260  
Irving, Texas 75039

**ISSUED:**  
**REV:**  
A - JAN. 05, 2018 - ISSUED FOR PERMITTING AND REVIEW



G-001



## ABBREVIATIONS

PLANS PROVIDED WITH THE WALLINGFORD  
TOWN CLERKS LAND RECORDS AS FOLLOWS:

PLAN NO. 197-B  
PLAN NO. 772  
PLAN NO. 2702  
PLAN NO. 2812  
PLAN NO. 3055  
PLAN NO. 4645  
PLAN NO. 4543  
PLAN NO. 4723  
PLAN NO. 4797  
PLAN NO. 5012  
PLAN NO. 5120

PLANS PROVIDED BY ALGONQUIN GAS  
TRANSMISSION CO. AS FOLLOWS:

PLAN NO. L-5867  
PLAN NO. L-5900  
PLAN NO. L-9957-A  
PLAN NO. SQ-A-1000  
PLAN NO. SQ-A-1001  
PLAN NO. SQ-A-1002  
PLAN NO. SQ-A-1003  
PLAN NO. SQ-A-1004  
PLAN NO. SQ-A-1005

	HUB AND TACK
	IRON PIPE FOUND
	IRON ROD FOUND
	NAIL MONUMENT
	CONCRETE BOUND
	METAL COVER
	AIR CONDITIONER
	ROUND CATCH BASIN
	CATCH BASIN
	DOUBLE CATCH BASIN
	CULVERT
	DRAIN MANHOLE
	NO LABEL MANHOLE
	SEWER MANHOLE
	ELECTRIC BOX
	ELECTRIC HANDHOLE
	ELECTRIC METER
	ELECTRIC MANHOLE
	GAS METER
	GAS VALVE
	WATER GATE
	IRRIGATION CONTROL VALVE
	FIRE HYDRANT
	UTILITY POLE WITH LIGHT AND RISER
	UTILITY POLE WITH RISER
	UTILITY POLE
	UTILITY POLE WITH LIGHT
	GUY POLE
	PRESSURE INDICATOR VALVE
	SWAMP AREA
	DECIDUOUS TREE
	CONIFER TREE
	SHRUB
	SIGN (SINGLE POSTED)
	SIGN (DOUBLE POSTED)
	BOULDER
	POST
	MONITORING WELL
	TREE STUMP
	UNIDENTIFIED STRUCTURE
	LIGHT POLE
	BOLLARD
	HANDICAP PARKING
	FIRE DEPARTMENT CONNECTION
	FLAG POLE
	TRANSMISSION UTILITY POLE
	VENT
	VALVE
	RIGHT-OF-WAY
	PROPERTY LINE
	EASEMENT
	OBSCURED AREA
	METAL / WIRE FENCE
	CHAIN LINK FENCE
	METAL GUARDRAIL
	EDGE OF WATER
	DRAINAGE DITCH
	WATER LINE
	GAS LINE
	UNDERGROUND ELECTRIC
	OVERHEAD WIRES
	UNDERGROUND TELEPHONE LINE
	DRAIN LINE
	SEWER LINE
	STEAM LINE
	UNKNOWN UTILITY LINE
	STEAM COND LINE
	STONE WALL
	TREE LINE
	INTERMEDIATE CONTOURS
	INDEX CONTOURS
	SHRUB LINE
	RIP RAP
	DELIMITED WETLAND
	EXISTING ROAD
	SWALE

SITE BOUNDARY

PROPOSED ROAD

PROPOSED FENCE LINE

PROPOSED MV ROUTING

PAD FOR TRANSFORMER, INVERTERS  
AND SWITCHGEAR

PAD FOR TRANSFORMER AND INVERTERS

SOLAR PANELS – DRIVEN PILE

SOLAR PANELS – BALLAST

WATERSHED DELINEATION LIMITS

DISCHARGE POINT

ANTICIPATED DIRECTION OF STORMWATER RUNOFF

PROPOSED SILT FENCE

PROPOSED SILT SOCK

APPROXIMATE LIMIT OF CLEARING

PROPOSED TEMPORARY STONE CHECK DAM

PROPOSED TEMPORARY HAY BALE CHECK DAM

PROPOSED TEMPORARY SEDIMENT TRAP

PROPOSED TEMPORARY SEDIMENT BASIN

PROPOSED STABILIZED CONSTRUCTION ENTRANCE

PVC	POLYVINYL CHLORIDE
DI	DUCTILE IRON
CI	CAST IRON
VC	VITRIFIED CLAY
RC	OBSCURED AREA
FFE	FINISHED FLOOR ELEVATION
MTL	METAL
MIRA	MATERIALS INNOVATION AND RECYCLING AUTHORITY
CMP	CORRUGATED METAL PIPE



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PREPARED FOR:

***Wallingford Renewable Energy LLC***  
909 Lake Carolyn Pkwy, Suite 260  
Irving, Texas 75039

MARK	DATE	DESCRIPTION	BY
A	01/05/18	ISSUED FOR PERMITTING AND REVIEW	JS

**WALLINGFORD RENEWABLE ENERGY**  
NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT

## GENERAL NOTES, LEGEND AND ABBREVIATIONS

Project No.:	194-9002
Designed By:	JS, KMT
Drawn By:	FGM, DS
Checked By:	JS, LG

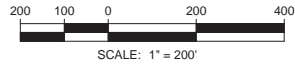
# G-002

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NOTE:  
FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS,  
SEE DRAWING G-002.

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NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT

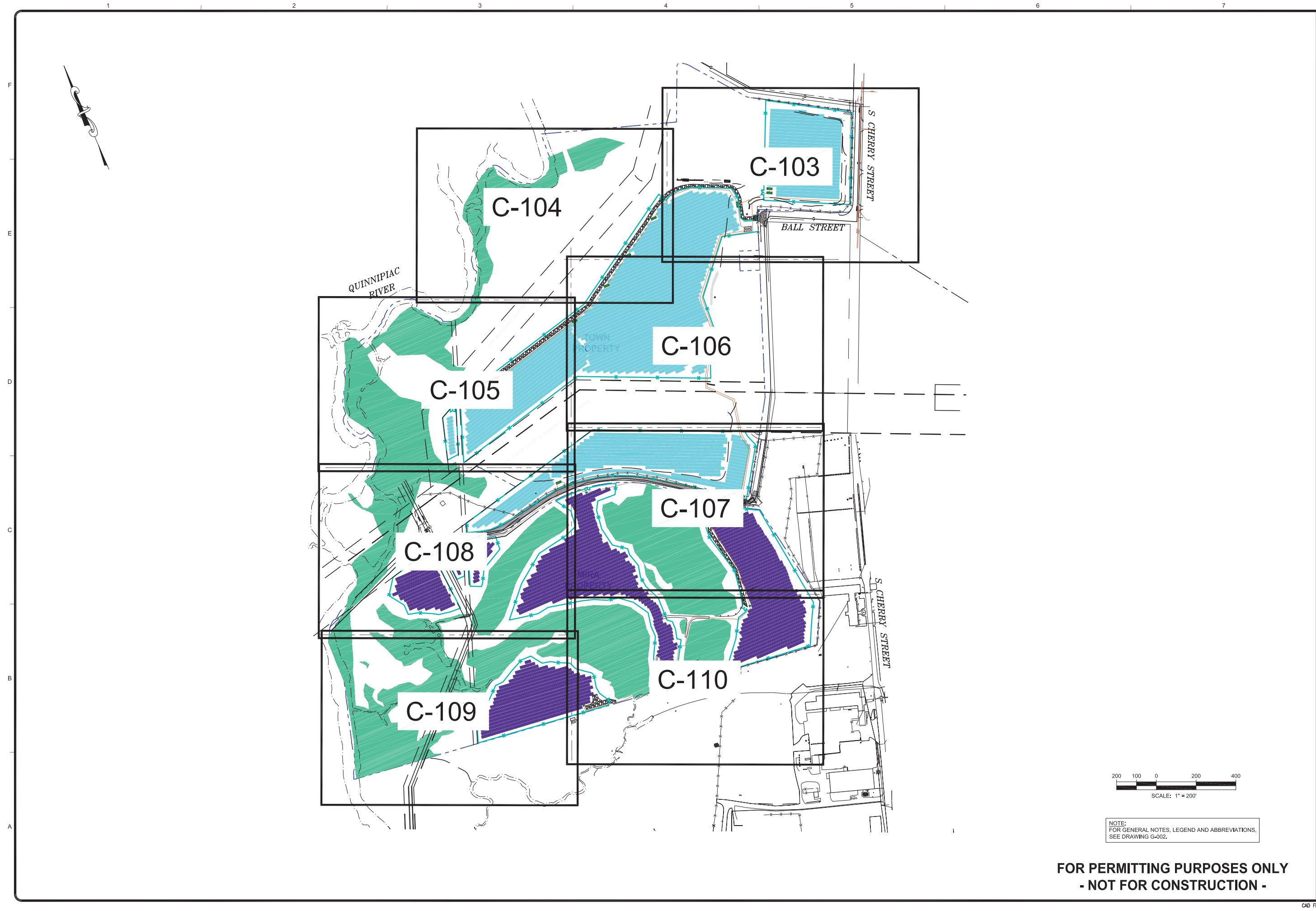
EXISTING CONDITIONS PLAN

Project No.: 194-9002  
Designed By: JS, KMT  
Drawn By: FGM  
Checked By: JS, LG

C-101



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Project No.:194-9002

Designed By:JS, KMT

Drawn By:FGM

Checked By:JS, LG

WALLINGFORD RENEWABLE ENERGY  
NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT

SOLAR PANEL LAYOUT CONFIGURATION  
KEY PLAN

PREPARED FOR:  
Wallingford Renewable Energy LLC  
909 Lake Carolyn Pkwy, Suite 260  
Irving, Texas 75039

MARK

DATE

DESCRIPTION

BY

A

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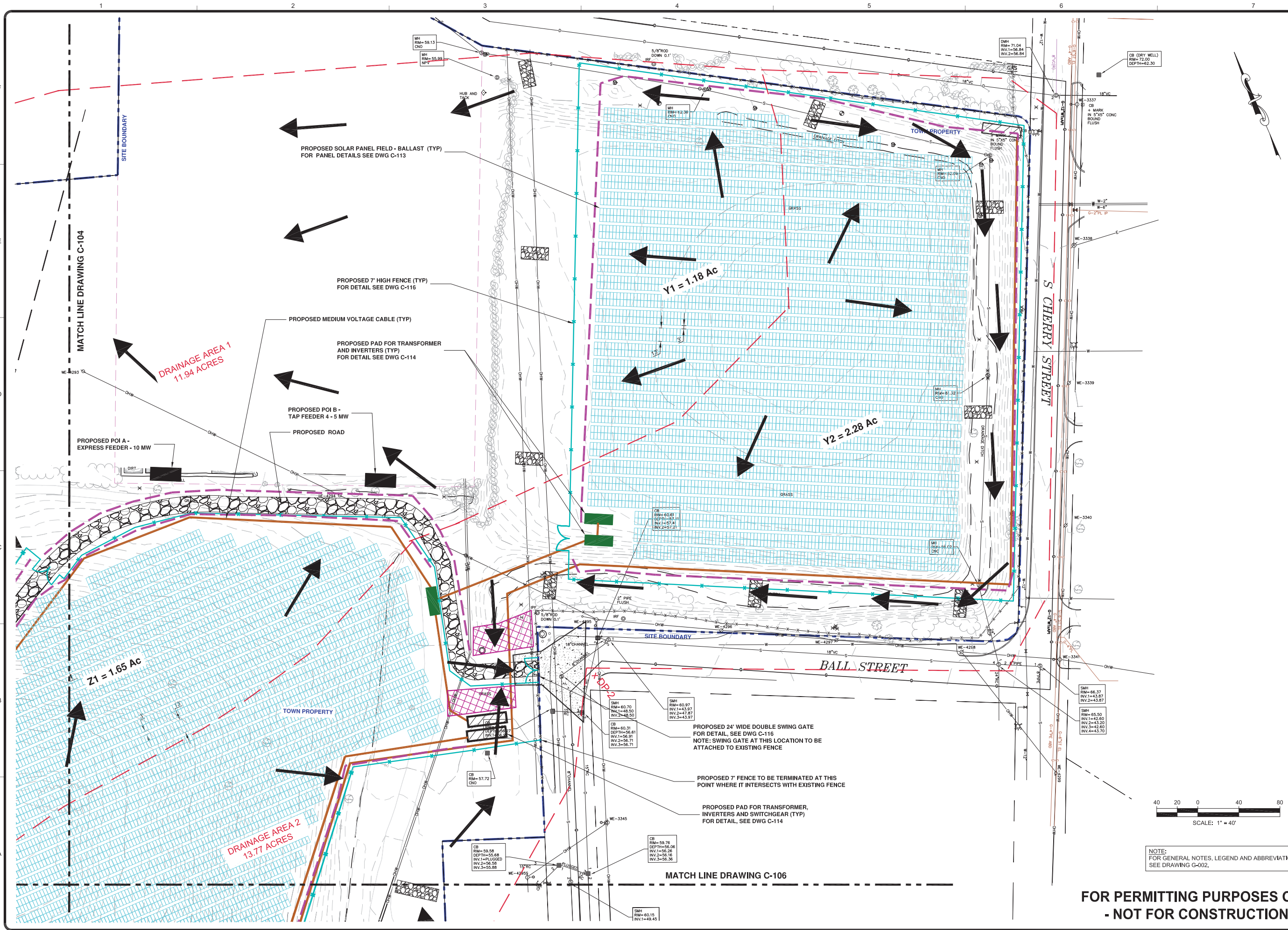
C-102

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WALLINGFORD RENEWABLE ENERGY  
NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT

SOLAR PANEL LAYOUT CONFIGURATION  
GENERAL SITE PLAN

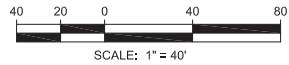
Project No.: 194-9002  
Designed By: JS, KMT  
Drawn By: FGM, DS  
Checked By: JS, LG

C-103

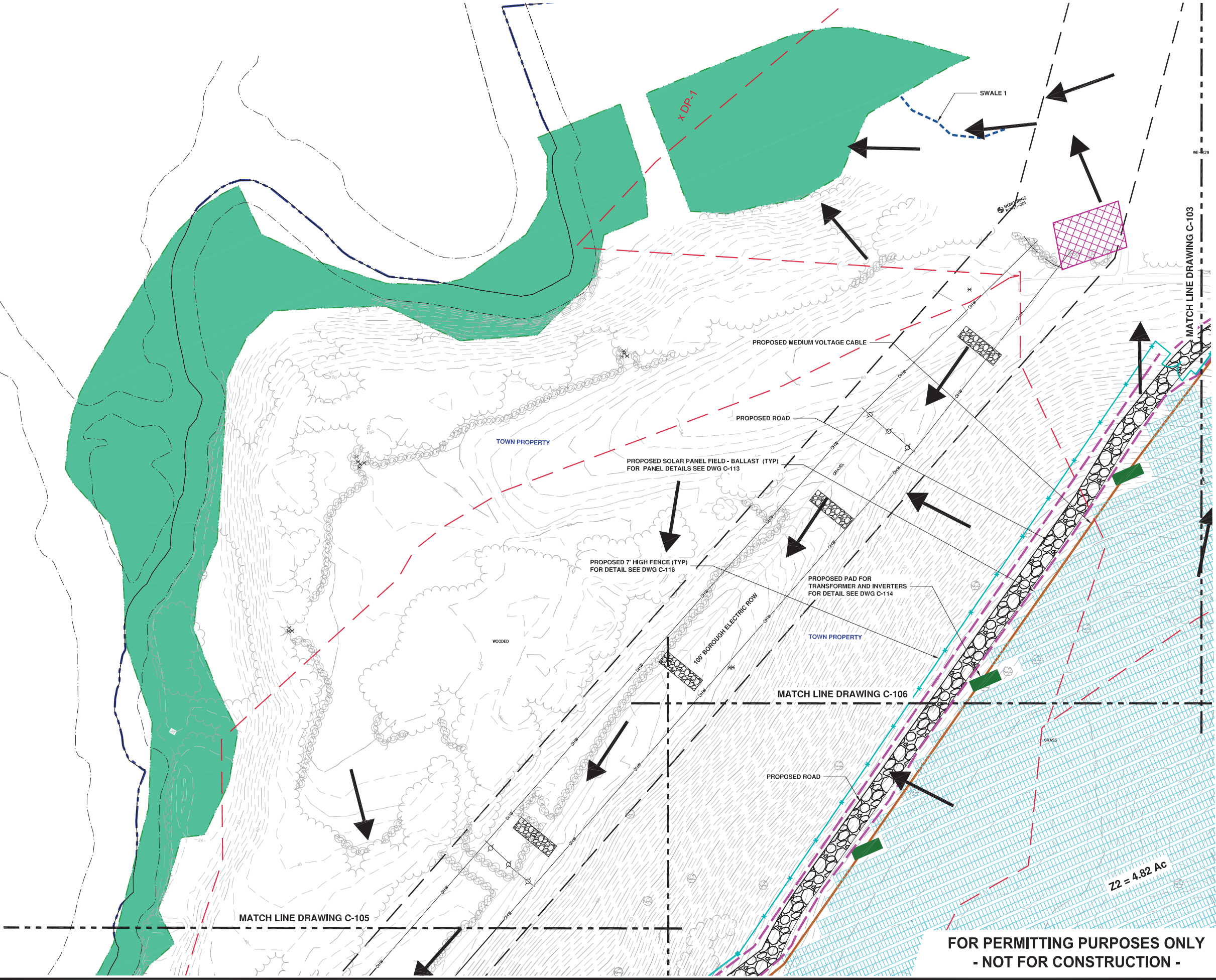
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NOTE:  
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WALLINGFORD RENEWABLE ENERGY  
NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT

SOLAR PANEL LAYOUT CONFIGURATION  
GENERAL SITE PLAN

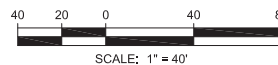
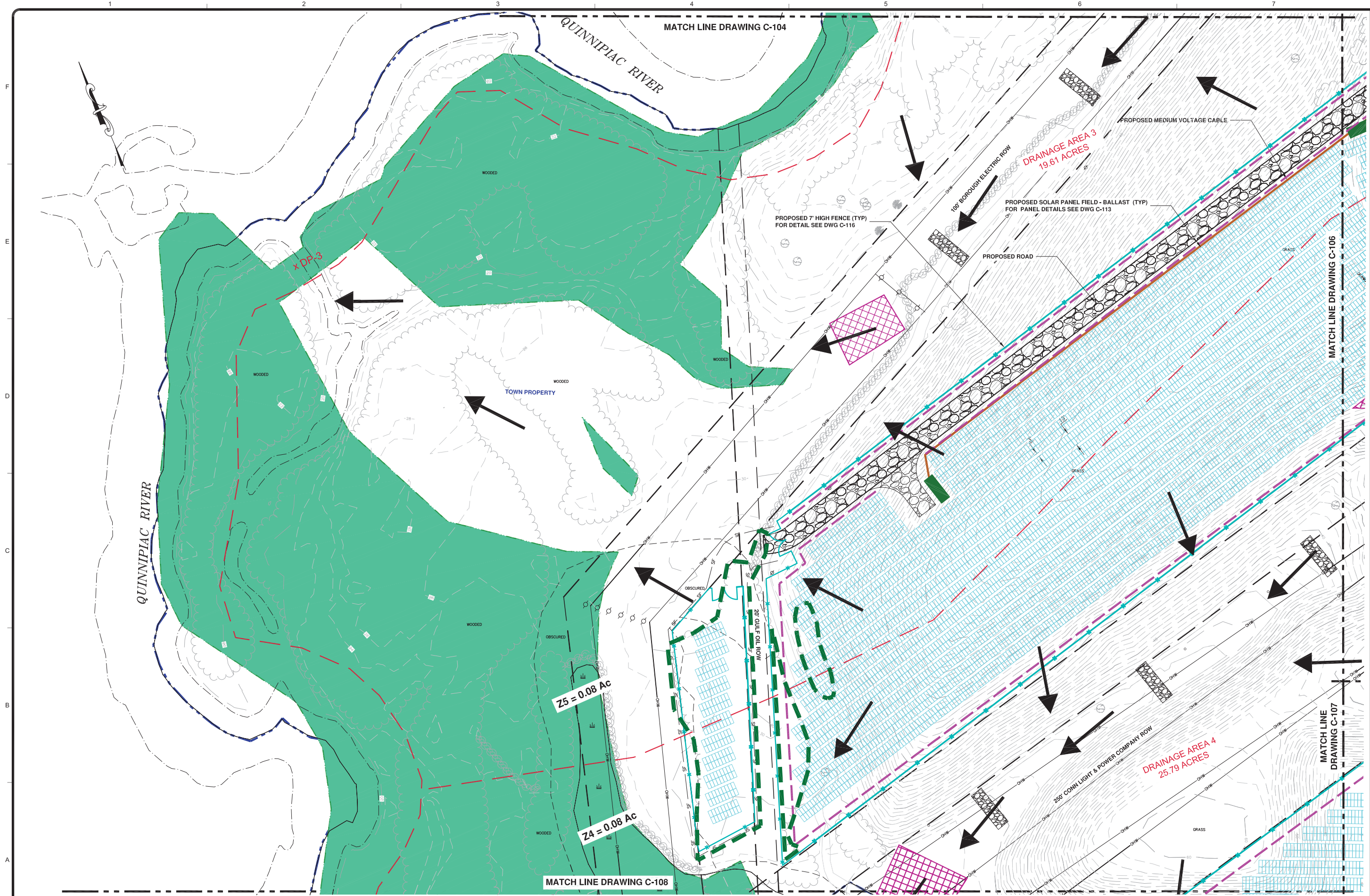
Project No.: 194-9002  
Designed By: JS, KMT  
Drawn By: FGM, DS  
Checked By: JS, LG

C-104

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NOTE:  
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A	01/05/18	ISSUED FOR PERMITTING AND REVIEW	JS

WALLINGFORD RENEWABLE ENERGY  
NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT

SOLAR PANEL LAYOUT CONFIGURATION  
GENERAL SITE PLAN

Project No.: 194-9002

Designed By: JS, KMT

Drawn By: FGM, DS

Checked By: JS, LG

C-105

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MATCH LINE DRAWING C-104

MATCH LINE DRAWING C-103

PROPOSED ROAD

Z2 = 4.82 Ac

Z6 = 2.57 Ac

Z3 = 4.33 Ac

TOWN PROPERTY

250' CONN LIGHT & POWER COMPANY ROW

SWALE 2

PROPOSED 7' HIGH FENCE (TYP)  
FOR DETAIL SEE DWG C-116

TRANS POLE WITH WALL AND POSTS

PROPOSED SOLAR PANEL FIELD - BALLAST (TYP)  
FOR PANEL DETAILS SEE DWG C-113

PROPOSED MEDIUM VOLTAGE CABLES (TYP)

PROPOSED TEMPORARY HAY BALE CHECK DAM  
FOR DETAILS SEE DWG C-112

SITE BOUNDARY

SMH  
RM=60.15  
INV.1=49.45  
INV.2=49.45

CB  
RM=57.01  
DEPTH=33.31  
INV.1=53.71

SCALE: 1" = 40'

NOTE:  
FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS,  
SEE DRAWING G-002.

MATCH LINE DRAWING C-105

MATCH LINE DRAWING C-107

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**C-106**

40 20 0 40 80

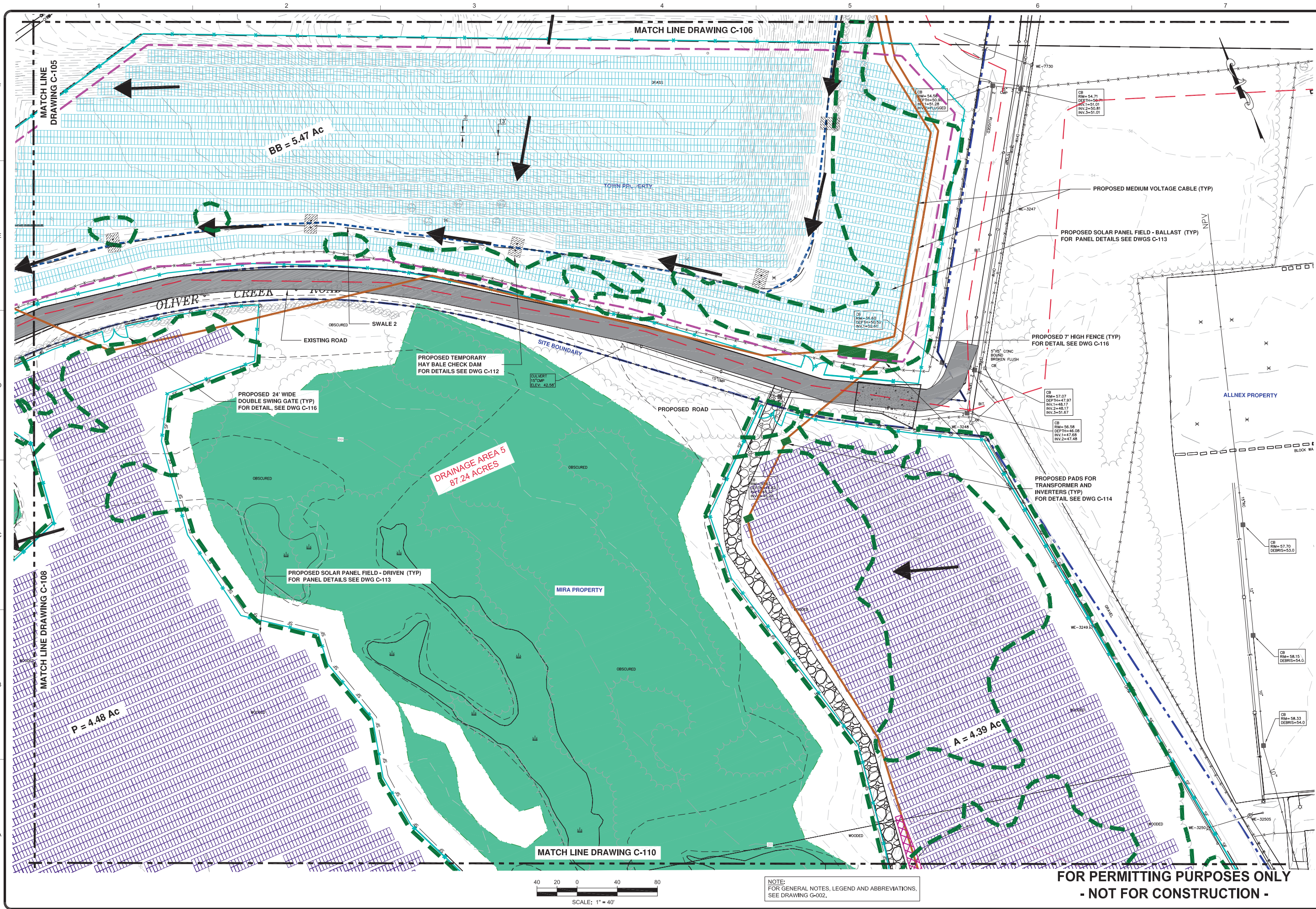
SCALE: 1" = 40'

**NOTE:**  
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WALLINGFORD RENEWABLE ENERGY  
NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT

**SOLAR PANEL LAYOUT CONFIGURATION  
GENERAL SITE PLAN**

Project No.: 194-9002  
Designed By: JS, KMT  
Drawn By: FGM, DS  
Checked By: JS, LG

**C-107**

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**SOLAR PANEL LAYOUT CONFIGURATION  
GENERAL SITE PLAN**

Project No.:	194-9002
Designed By:	JS, KMT
Drawn By:	FGM, DS
Checked By:	JS, LG

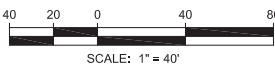
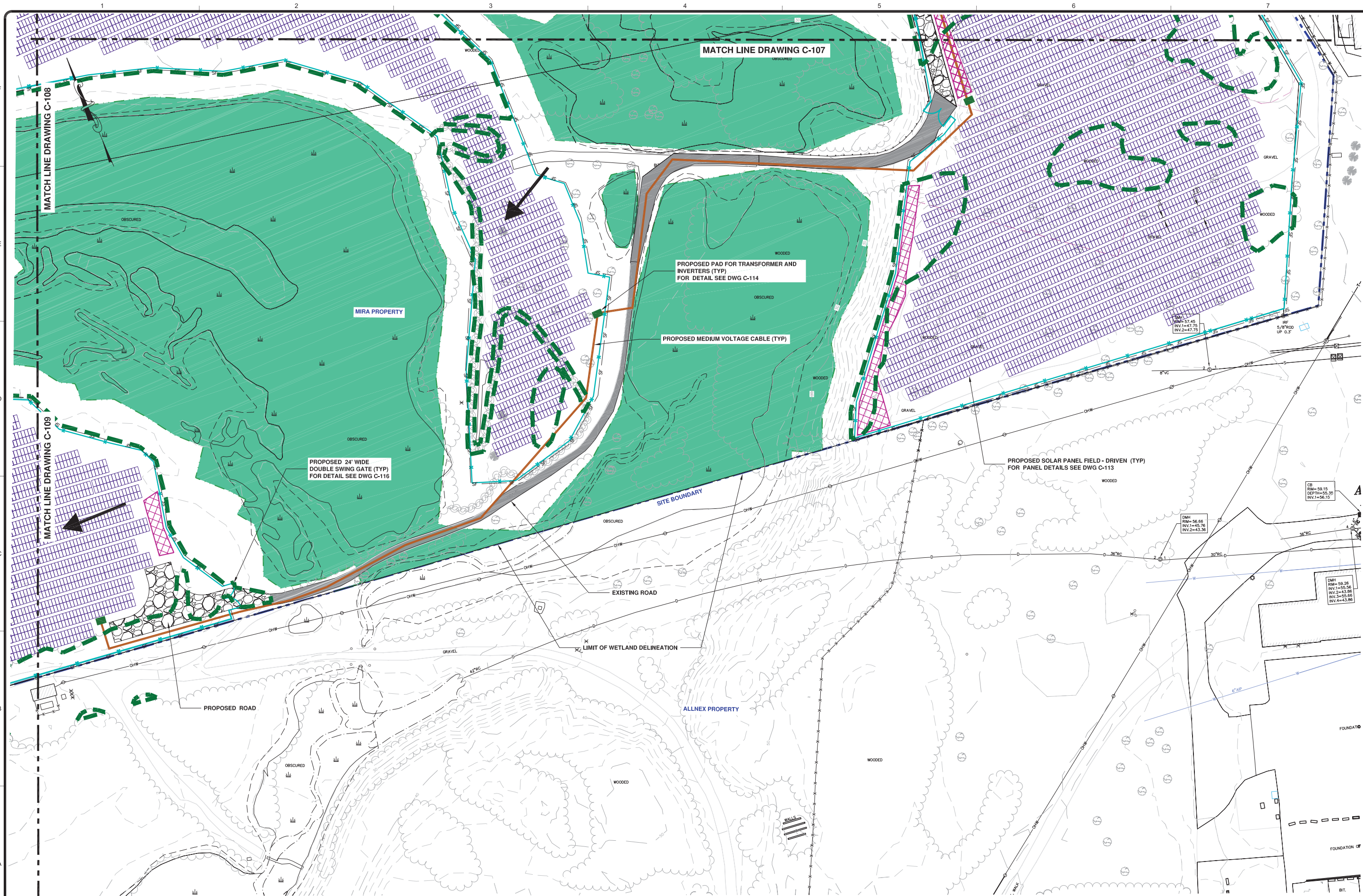
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NOTE:  
FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS,  
SEE DRAWING G-002.

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<b>WALLINGFORD RENEWABLE ENERGY</b> NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT		<b>SOLAR PANEL LAYOUT CONFIGURATION GENERAL SITE PLAN</b>	
Project No.:	194-9002	Prepared For:	<b>Wallingford Renewable Energy LLC</b> 909 Lake Carolyn Pkwy, Suite 260 Irving, Texas 75039
Designed By:	JS, KMT	By:	JS
Drawn By:	FGM, DS	Date:	
Checked By:	JS, LG	Mark:	
		Description:	
		Issued For Permitting and Review:	A 01/05/18

**C-110**



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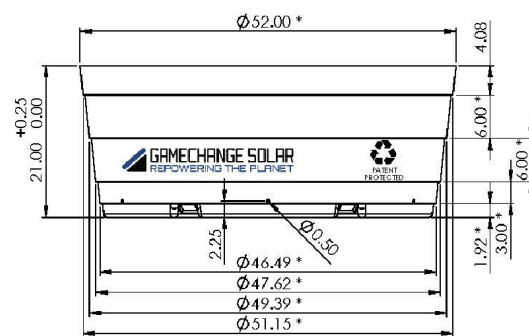
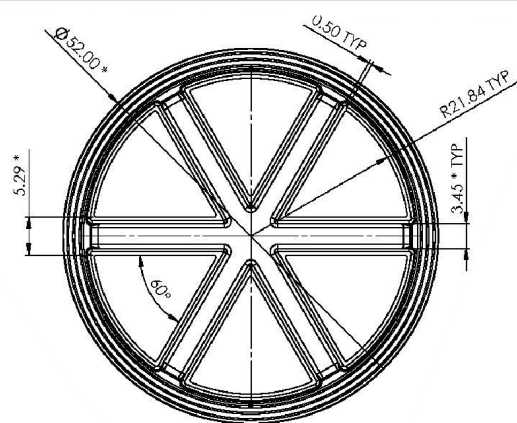
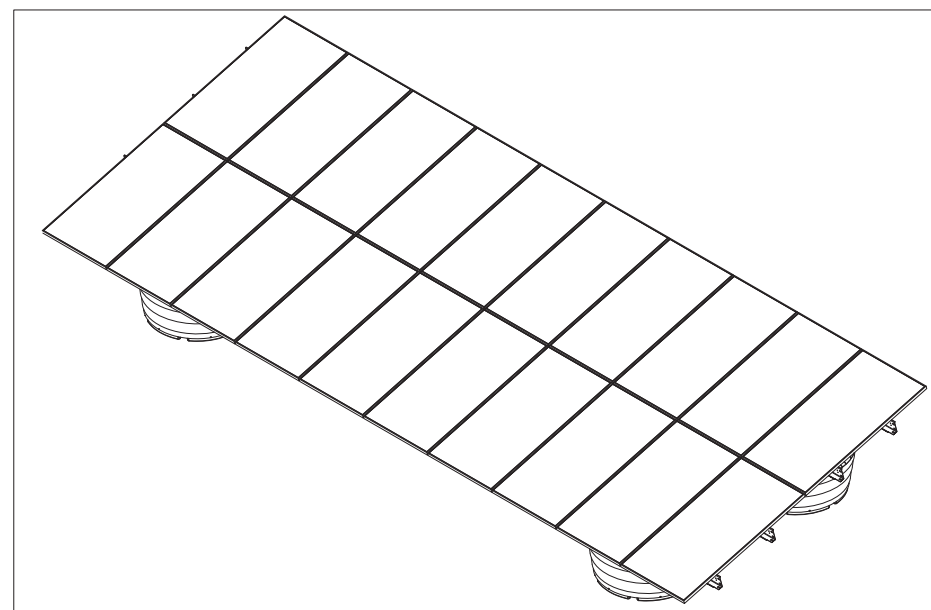
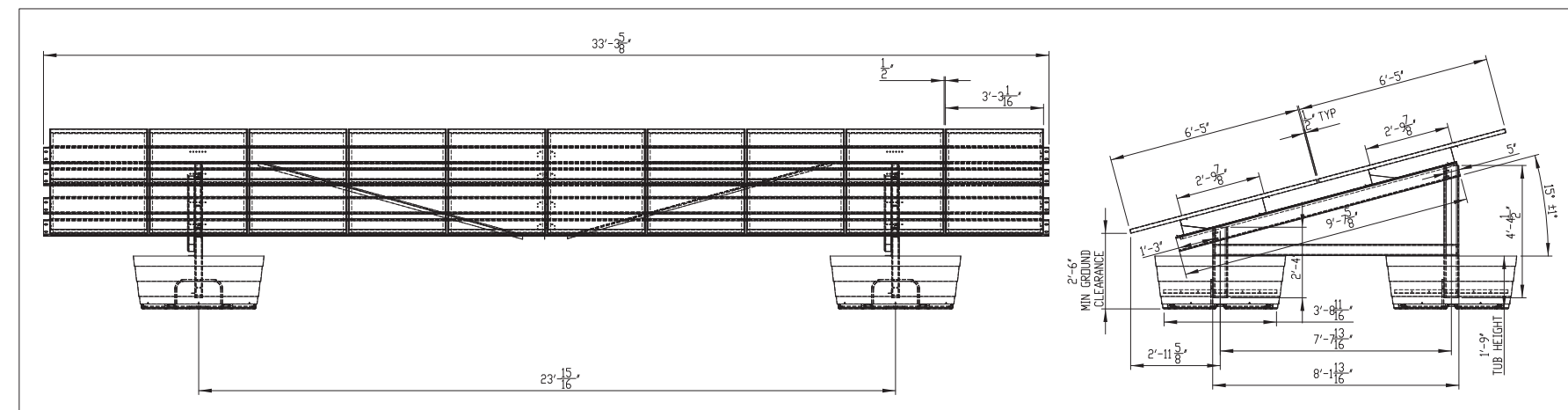












- Notes:
- 1) Cut Lengths are measured from the bottom of the tub; lengths may be specified in 1 inch increments
  - 2) Unspecified feature dimensions shall be per model file; reference solid model for additional part geometry
  - 3) Part thickness shall be 0.08"
  - 4) Tolerances for all dimensions with \* are +/- 3/16"

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WALLINGFORD RENEWABLE ENERGY  
NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT

**SOLAR PANEL DETAILS  
TYPICAL EXTERIOR  
RACKING STRUCTURE**

Project No.:	194-9002
Designed By:	JS
Drawn By:	FGM
Checked By:	JS

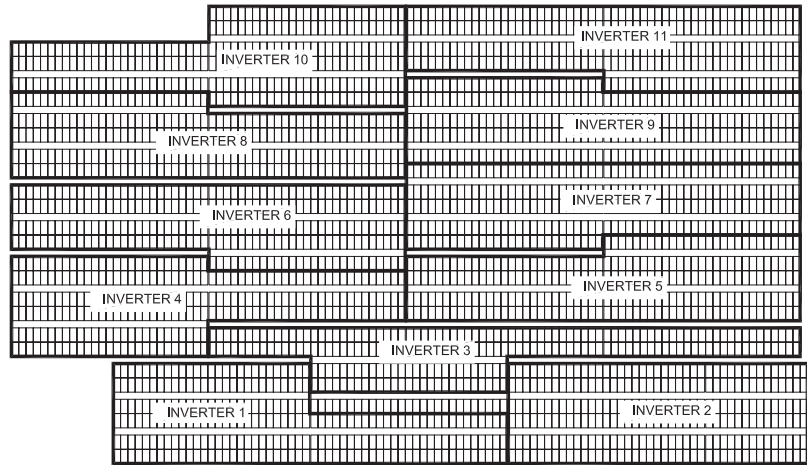
**C-113**

CAD FILE: 9002-WRE\_C113-REV A.DWG

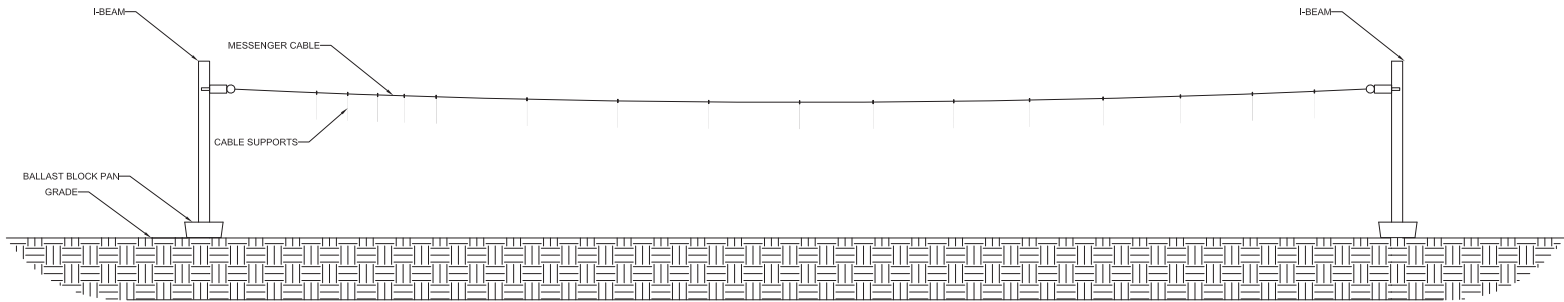
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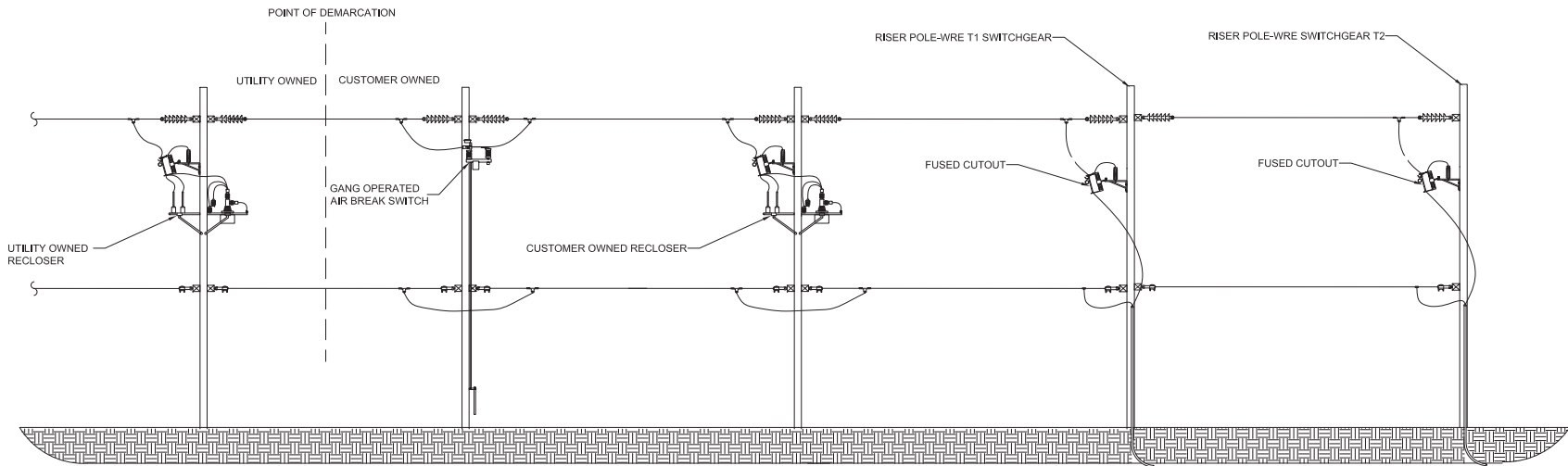
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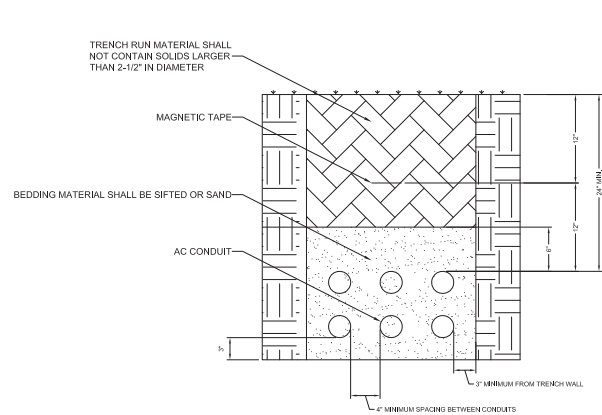
1 TYPICAL TRANSFORMER/INVERTER BLOCK  
SCALE: NTS



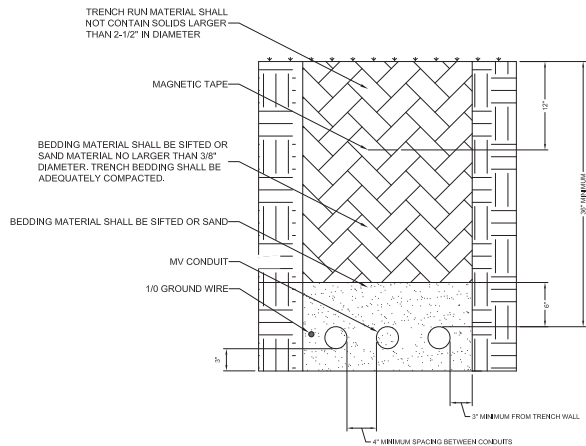
5 MESSENGER CABLE DETAIL  
SCALE: NTS



2 RISER POLE INTERCONNECTION ELEVATION - INTERSECTION OF PARK STREET AND PENT ROAD CONNECTION  
SCALE: NTS



3 TYPICAL AC TRENCH - MULTIPLE CONDUITS  
SCALE: NTS



4 TYPICAL MEDIUM VOLTAGE AC TRENCH  
SCALE: NTS

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NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT

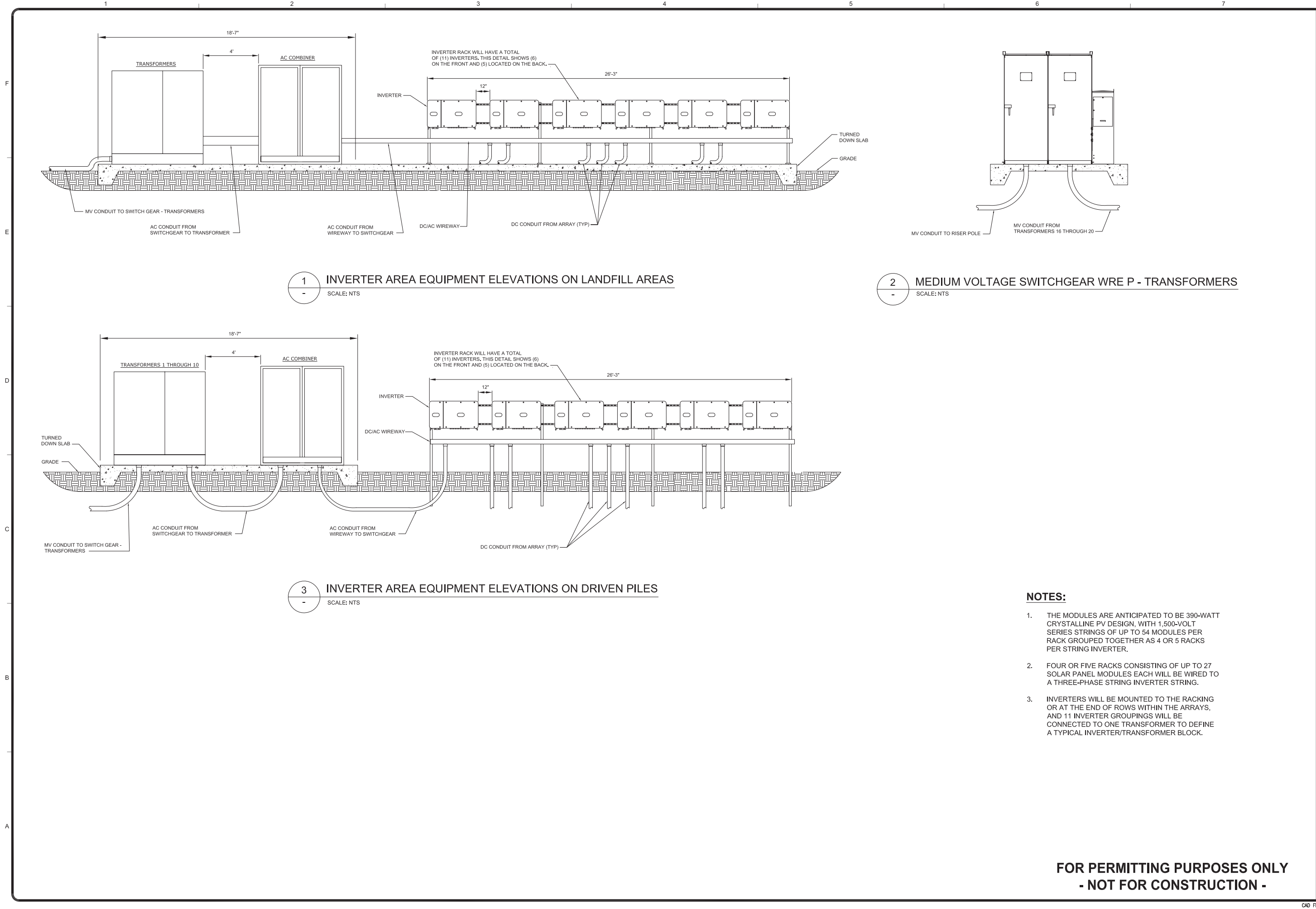
SOLAR PANEL  
ELECTRICAL DETAILS

Project No.: 194-9002  
Designed By: JS  
Drawn By: FGM  
Checked By: JS

C-114



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- NOTES:**
- 1. THE MODULES ARE ANTICIPATED TO BE 390-WATT CRYSTALLINE PV DESIGN, WITH 1,500-VOLT SERIES STRINGS OF UP TO 54 MODULES PER RACK GROUPED TOGETHER AS 4 OR 5 RACKS PER STRING INVERTER.
  - 2. FOUR OR FIVE RACKS CONSISTING OF UP TO 27 SOLAR PANEL MODULES EACH WILL BE WIRED TO A THREE-PHASE STRING INVERTER STRING.
  - 3. INVERTERS WILL BE MOUNTED TO THE RACKING OR AT THE END OF ROWS WITHIN THE ARRAYS, AND 11 INVERTER GROUPINGS WILL BE CONNECTED TO ONE TRANSFORMER TO DEFINE A TYPICAL INVERTER/TRANSFORMER BLOCK.

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WALLINGFORD RENEWABLE ENERGY NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT		SOLAR PANEL TRANSFORMER AND INVERTERS ELECTRICAL DETAILS	
Project No.:		194-9002	
Designed By:		JS	
Drawn By:		FGM	
Checked By:		JS	
PREPARED FOR:		Wallingford Renewable Energy LLC 909 Lake Carolyn Pkwy, Suite 260 Irving, Texas 75039	
BY		JS	
DATE		01/05/18	
DESCRIPTION		ISSUED FOR PERMITTING AND REVIEW	
MARK		A	

**TETRA TECH**

www.tetrattech.com

160 Federal Street, 3rd Floor  
Boston, MA 02110

Phone: (617) 443-7500 Fax: (617) 737-9480



MINIMUM 15 FEET (CLEAR TRAVEL WAY)

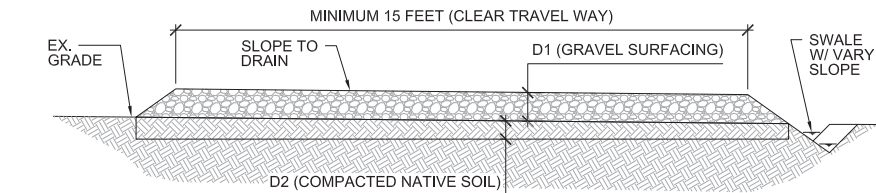
MATCH EX. GRADE

SLOPE TO DRAIN

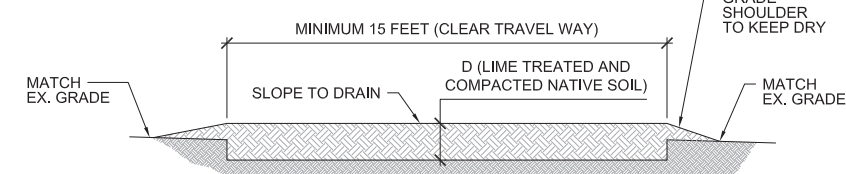
D (COMPACTED NATIVE SOIL)

MATCH EX. GRADE

DETAIL NOTE:  
1. SCARIFY AND RE-COMPACT NATIVE MATERIAL.  
2. DEPTH T.B.D. BASED ON MATERIAL STRENGTH  
3. SWALE TO BE DESIGNED BY A NEW YORK STATE PROFESSIONAL ENGINEER AND  
APPROVED PRIOR CONSTRUCTION OF ROAD.



DETAIL NOTE:  
1. SCARIFY, MIX WITH LIME AND RE-COMPACT NATIVE MATERIAL.  
2. DEPTH T.B.D. BASED ON MATERIAL STRENGTH



THICKNESS		
SOIL TYPE	EXPOSURE SUB GRADE TO SCARIFY	AGGREGATE SURFACE ROAD THICKNESS
TYPE I	0'-6"	0'-10 1/2"
TYPE II	0'-10"	1'-0"
TYPE III	1'-4" - (*)	1'-4 1/2"
TYPE IV	0'-6" (*) (*)	0'-10 1/2"

2' x 12' WEIR - PRESSURE TREATED  
 STAPLE IN PLACE  
 WIDTH VARIES 2' - 3'  
 MATTING  
 6" MIN. DEPT.  
 5' 3.5'  
 BURIED EDGE

The diagram illustrates the flow characteristics at the entrance of a pipe. Key features include:

- 20' TRANSITION:** A horizontal dimension indicating the length of the transition region from the inlet to the entrance.
- ENTRANCE WIDTH:** The vertical dimension of the pipe's entrance.
- S=0.0%:** The slope of the pipe, indicated as 0.0%.
- LENGTH OF STABILIZED OUTLET:** The distance downstream from the entrance where the flow becomes fully developed.
- V:** A velocity profile shown at the entrance, with arrows indicating the flow direction and magnitude.

Diagram illustrating the profile view of a road construction. The diagram shows the transition from existing ground to existing pavement. Key components labeled include:

- ACCESS (indicated by arrows)
- EXISTING GROUND
- PROFILE (indicated by a line)
- FILTER CLOTH
- EXISTING PAVEMENT
- 5:1 (slope ratio)
- MOUNTABLE BERM (OPTIONAL)



5 CONSTRUCTION ENTRANCE DETAIL  
- SCALE: NTS

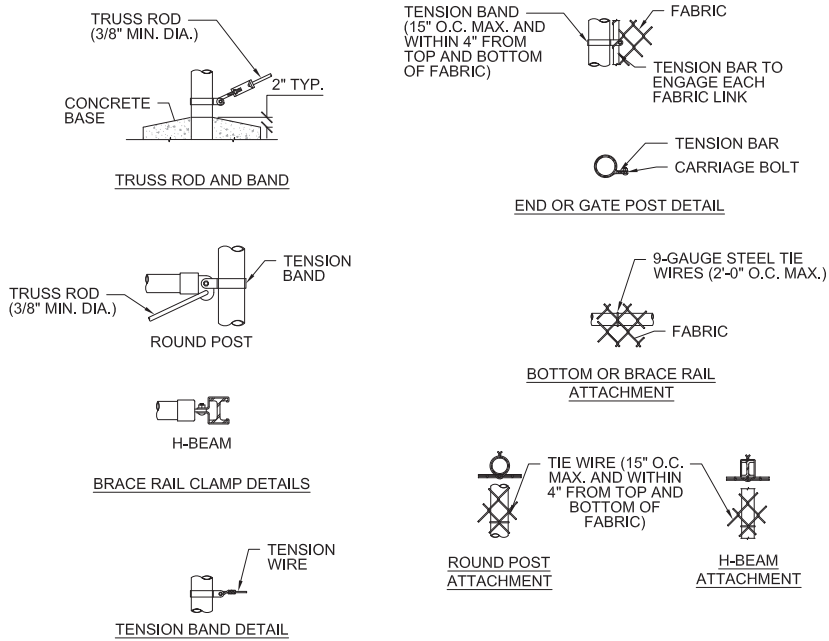
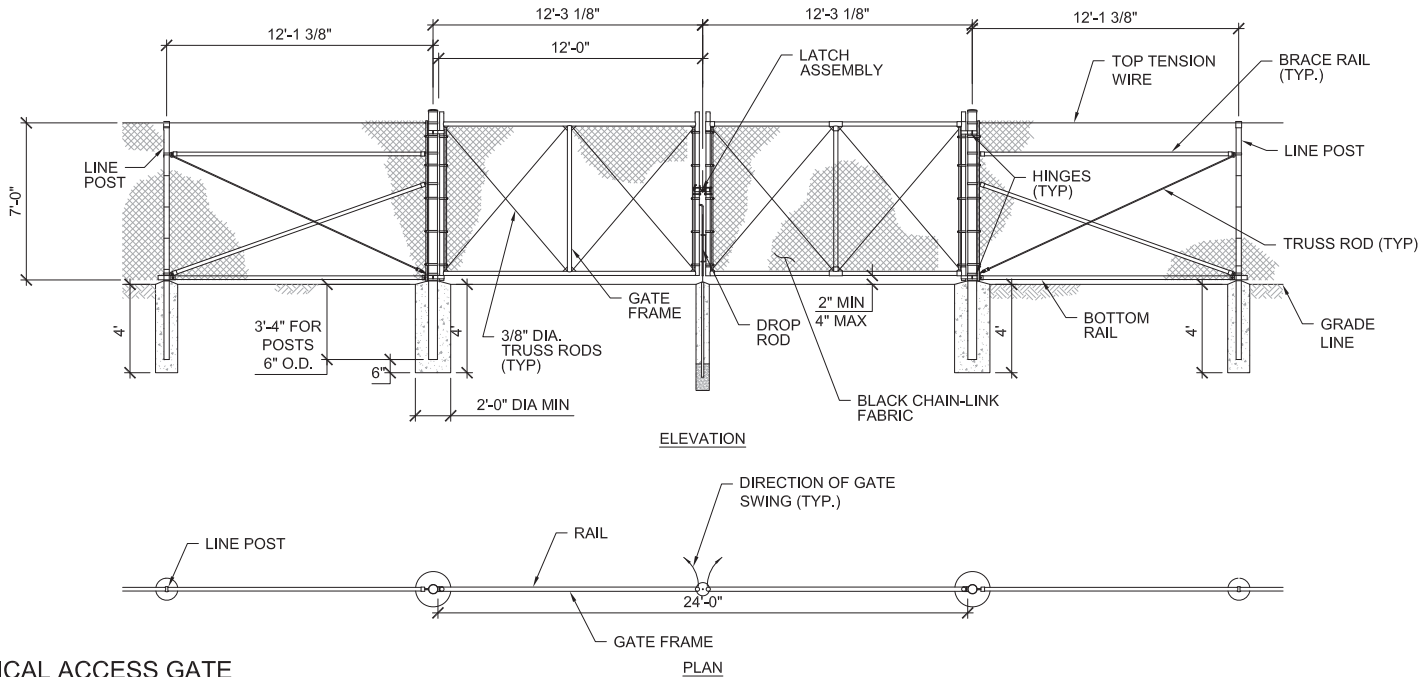
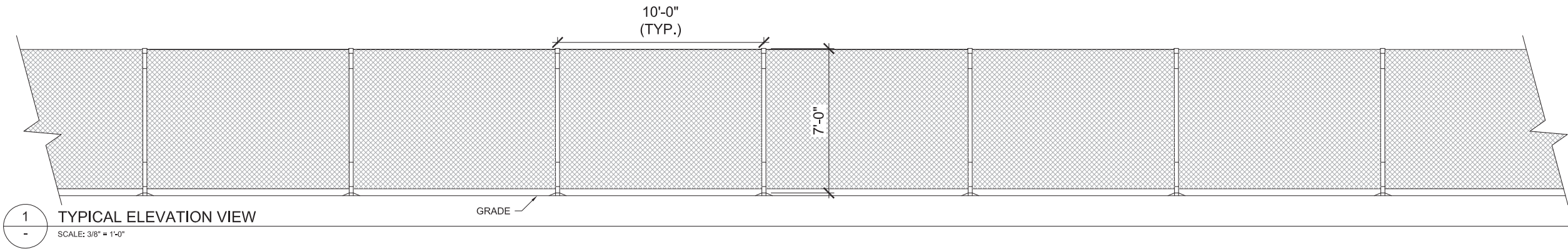
Project No.:	194-9002
Designed By:	JS, KMT
Drawn By:	FGM, DS
Checked By:	JS

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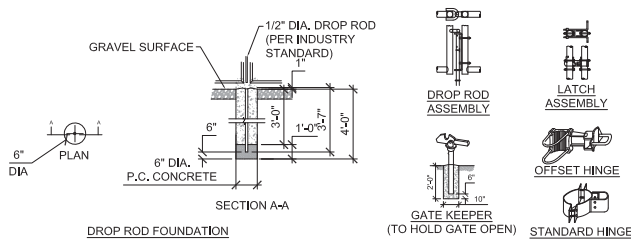


1/5/2018 2:34:54 PM - D:\CAD-TEMP FILES\PROJECTS\\_WIRE-SOLAR LEASE AREA\WORKING\PERMIT DRAWINGS\_REV A - REVISED SITE\_121117\WORKING\9002-WRE\_C117-REV A.DWG - MENICHELLI, FOSTER



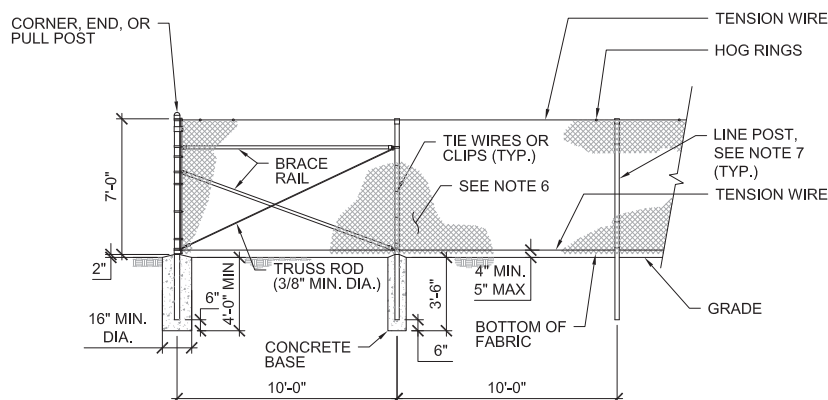
2 TYPICAL ACCESS GATE

SCALE: 1/4" = 1'-0"



4 ACCESS GATE DETAILS

SCALE: NTS



5 PERIMETER FENCE - ELEVATION

SCALE: 1/4" = 1'-0"

SOIL TYPE	EMBEDMENT DEPTH (FT)		
	WIND SPEED (MPH)		
	90	105	120
SOFT CLAY	5.5	6	6.5
STIFF CLAY	4.5	5	5.5
VERY STILL CLAY	4	4.5	5
HARD CLAY	3.5	4	4.5
LOOSE SAND	6	6.5	7
Medium Dense Sand	5.5	6	6.5
Dense Sand	5	6	6.5

### SHEET NOTES

- WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. PLACE CHAIN-LINK FABRIC ON THE OPPOSITE SIDE OF THE SECURE AREA.
- CONSTRUCT SWING GATES WITH DROP RODS, PADLOCKS, LATCH ASSEMBLY, AND GATE KEEPERS EXCEPT AS NOTED.
- ALL GATE FRAMES SHALL BE ACCORDING TO STEEL POST SCHEDULE, GATE FRAMES SHALL BE OF WELDED CONSTRUCTION OR SHALL BE ASSEMBLED USING HEAVY FITTINGS. AT THE CONTRACTOR'S OPTION A WELDED HORIZONTAL BRACE MAY BE USED IN LIEU OF TRUSS RODS TO BRACE ALL WELDED GATE FRAMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER RIGID CONSTRUCTION OF ALL GATES SUPPLIED.
- GATES SHALL BE DESIGNATED AS FOLLOWS:  
FENCE TYPE - FE5, FE6, ETC.  
FABRIC WIDTH - INCHES  
TYPE OPENING - SO (SINGLE)  
- DO (DOUBLE)  
- RA (STANDARD)  
- HO (OFFSET)  
HINGE - INCHES (CLEAR OPENING BETWEEN GATE POSTS)  
OPENING - INCHES (CLEAR OPENING BETWEEN GATE POSTS)  
EXAMPLES: FE6-120-DO-RA-144  
FE5-120-SO-HO-144
- BLACK COATED CHAIN-LINK FENCE FABRIC SHALL BE 11 GAUGE WITH 2" OPENINGS.
- LINE POSTS SHALL BE 10 FEET LONG 1-7/8" SCHEDULE 40 GRADE 50 PIPE DIRECTLY DRIVEN 4 FEET INTO NATIVE SOIL.
- SLATS NOT PERMITTED WITHOUT EOR APPROVAL AND SIGN-OFF.

STEEL POST SCHEDULE	
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS
CORNER-END AND PULL POSTS (TUBULAR ROUNDS)	0'-2 3/8"
LINE POST (TUBULAR) ROUND	0'-1 7/8"

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909 Lake Carolyn Pkwy, Suite 260  
Irving, Texas 75039

BY	DATE	DESCRIPTION
JS	01/05/18	ISSUED FOR PERMITTING AND REVIEW

WALLINGFORD RENEWABLE ENERGY  
NEW HAVEN COUNTY, WALLINGFORD, CONNECTICUT

### FENCE AND GATE DETAILS

Project No.: 194-9002  
Designed By: JS, RH  
Drawn By: FGM, DS  
Checked By: JS

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1. ANY DISTURBED AREAS INCLUDING STOCKPILES THAT WILL BE LEFT EXPOSED MORE THAN 7 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL BE STABILIZED WITHIN 7 DAYS AFTER INITIAL DISTURBANCE USING, MULCH, OR EROSION CONTROL MATTING.
2. PERMANENT VEGETATION TO BE ESTABLISHED WITH TOPSOIL AND SEED ON ALL EXPOSED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
3. ALL LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH CT STANDARDS AND SPECIFICATIONS.
4. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED IN PROPER WORKING CONDITION DURING THE PERIOD OF CONSTRUCTION. SILT FENCE IS TO BE CLEANED WHEN HALF OF THE FENCE IS BUILT UP BY SEDIMENT.
5. ADDITIONAL EROSION CONTROL MEASURES AND/OR MODIFICATIONS TO PROPOSED MEASURES MAY BE NECESSARY DEPENDING ON ACTUAL SITE CONDITIONS.
6. THE PLANS AND DETAILS ARE BASED ON THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL.
7. A RAIN GAUGE SHALL BE KEPT ON-SITE. THE CONTRACTOR SHALL INSPECT ALL E&S MEASURES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER ANY STORM EVENT THAT RESULTS IN A DISCHARGE. REPAIRS SHALL BE MADE TO E&S MEASURES IMMEDIATELY. RECORDS OF INSPECTIONS AND CORRECTIVE ACTIONS SHALL BE KEPT ON-SITE.

MULCH MATERIALS SHALL BE WOOD FIBER APPLIED WITH A HYDROMULCH AT 2000 POUNDS PER ACRE, OR IF DRILLING, UNROTTED SMALL GRAIN STRAW OR HAY FREE OF SEEDS, OR SALT HAY APPLIED AT THE RATE OF 2 TONS PER ACRE (90 TO 100 POUNDS PER 1,000 SQUARE FEET).