ARCADIA GROUND MOUNT PV SYSTEM

985.88 KW-DC SOLAR PV SYSTEM 1300 BAPTIST CHURCH ROAD YORKTOWN HEIGHTS, NEW YORK 10598

SCOPE OF WORK:

TO INSTALL A GROUND MOUNTED SOLAR PHOTOVOLTAIC (PV) SYSTEM.
THE POWER GENERATED BY THE PV SYSTEM WILL BE INTERCONNECTED WITH THE UTILITY GRID

THE PV SYSTEM DOES NOT INCLUDE STORAGE BATTERIES

CODES & STANDARDS:

2017 NATIONAL ELECTRICAL CODE 2015 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL FIRE CODE

LOT INFORMATION:

11 +/- ACRES
PARCEL ID # 47.11-1-4
ZONING DISTRICT - R-1 ONE FAMILY RESIDENTIAL

RECORD OWNER:

ARCADIA HOLDING CO., LLC 14 SUN VALLEY ROAD NORTH SALEM, NEW YORK 10560

RECORD APPPLICANT:

ECOGY NEW YORK XIII, LLC 315 FLATBUSH AVENUE #393 BROOKLYN, NEW YORK 11217

DRAWING LIST DWG. NO. DRAWING TITLE G-001 TITLE SHEET PV-101 SITE PLAN PV-101.1 PARTIAL SITE PLAN PV-507 MISCELLANEOUS DETAILS PV-200 GROUND MOUNT ELEVATION PV-200.1 GROUND MOUNT DETAIL

SYSTEM SUMMARY:

985.88 kW DC 800.0 kW-AC

TILT ANGLE = 20 ° AZIMUTH = 172 °

EQUIPMENT:

MODULE:

(2,186) BOVIET 450W MODULE

INVERTER:

(8) SOLAREDGE 100K-US INVERTER

RACKING:

UNIRAC

DAS:

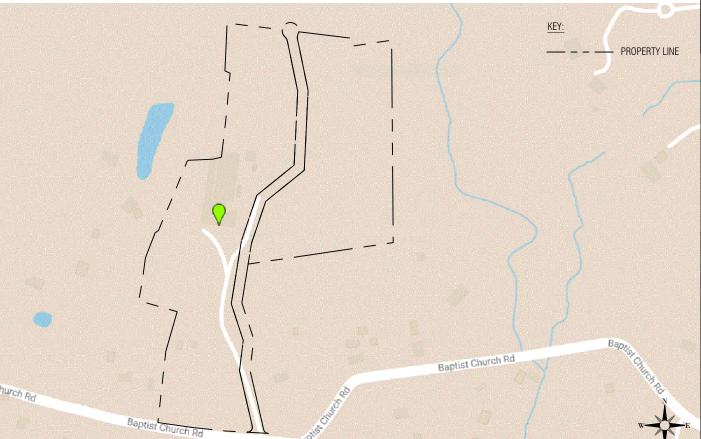
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<u>UTILITY:</u>

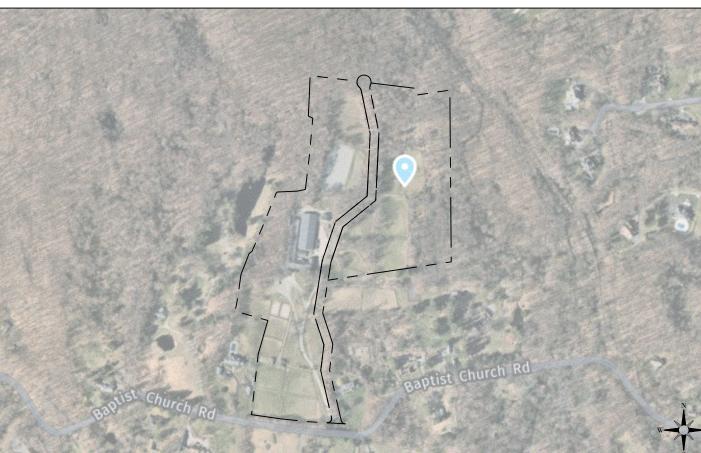
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REVIEW PLAN SET ISSUE DATE: 07/28/2020

LOCATION MAP SCALE: NTS







ECOGY ENERGY

ECOGY ENERGY 315 FLATBUSH AVENUE, #393 BROOKLYN, NY 11217 projectmanagement@ecogyenergy.com (718)-304-0945

Ecogy New York XIII LLC

ARCADIA GROUND 985.88 kW-DC

Project Site:

1300 BAPTIST CHURCH RD YORKTOWN, NY, 10598

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PRELIMINARY

SHEET NAME:

TITLE SHEET

PROJECT NUMBER: DR.
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DATE:
07/28/2021
SHEET NUMBER:

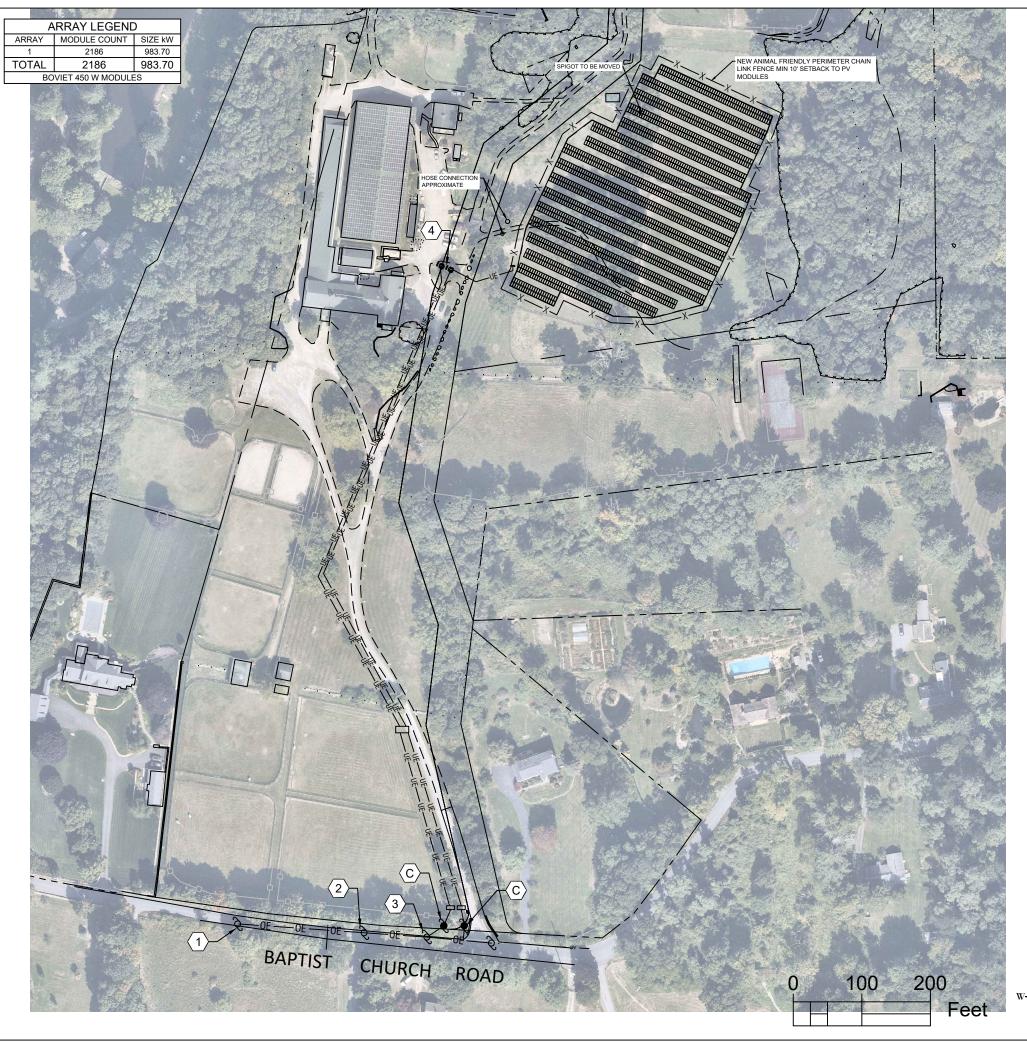
DWG. NUMBER:

CUSTOMER EQUIPMENT KEY:

- SOLAREDGE INVERTERS
- (B) 600A AC COMBINER PANEL MAIN PV AC 1200 A DISCONNECT SECONDARY METER DAS (ECONODE)
- © NEW CUSTOMER OWNED RISER POLE WITH METER

UTILITY EQUIPMENT KEY:

- (1) EXISTING UTILITY POLE #30
- (2) EXISTING UTILITY POLE #29
- NEW UTILITY OWNED POLE
- (4) NEW UTILITY OWNED TRANSFORMER





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ARCADIA GROUND
985.88 kW-DC

Project Site:

1300 BAPTIST CHURCH RD YORKTOWN, NY, 10598

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PRELIMINARY

SHEET NAME:

SITE PLAN

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SHEET NUMBER: DWG. NUMBER:

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DRAWN BY: CHECKED BY: SCG --
DWG. NUMBER:

PV-100

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SYMBOLS LEGEND:

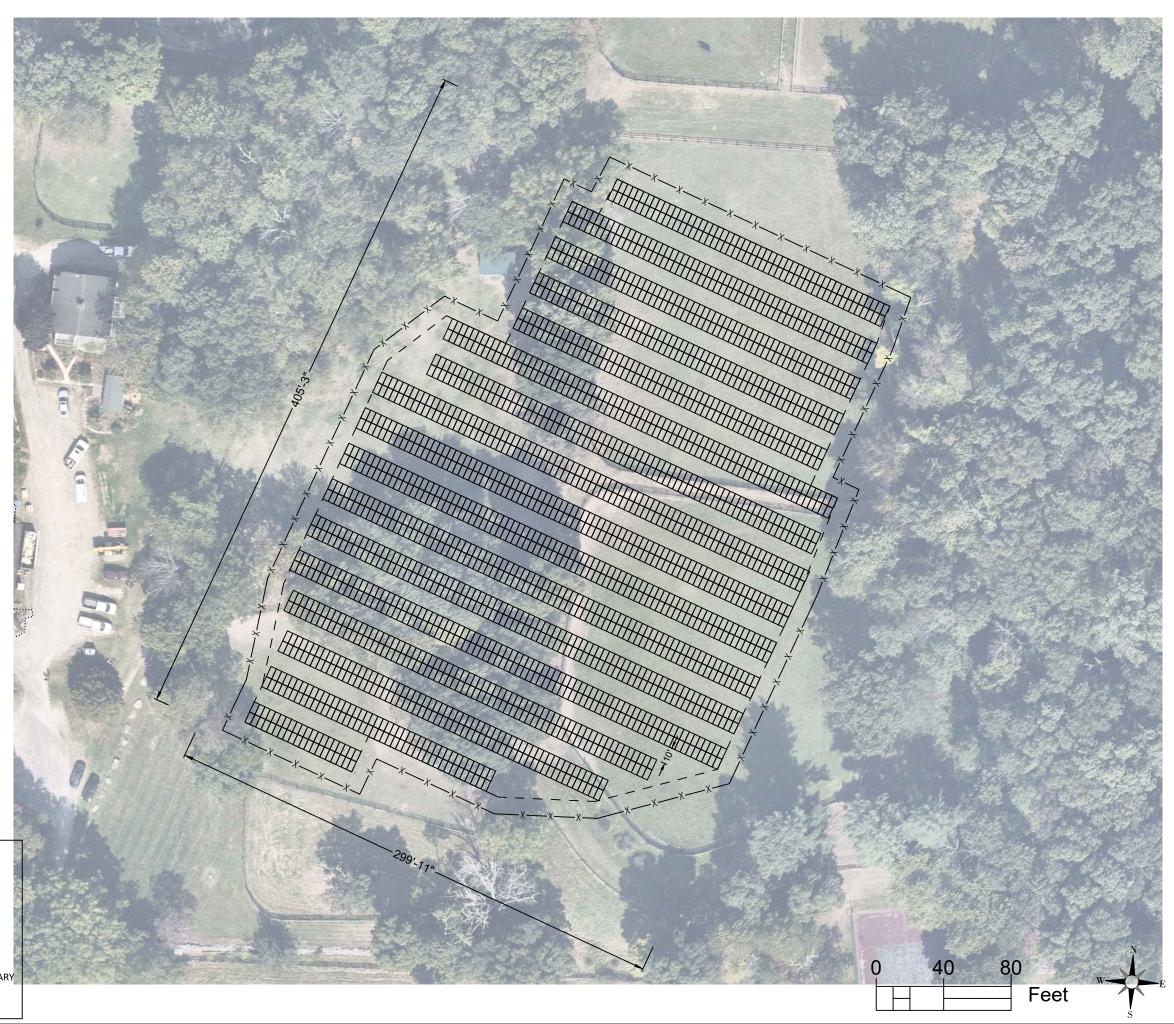
EXISTING UTILITY POLE PROPOSED UTILITY POLE

LINETYPE LEGEND:

— — — APPROXIMATE PROPERTY LINE
— — — PROPERTY LINE SETBACK
— — — PROPOSED CHAINLINK FENCE
— 0E— 0E— OVERHEAD ELECTRIC

UNDERGROUND ELECTRIC

— — — — WETLAND 100' BUFFER





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ARCADIA GROUND 985.88 kW-DC

1300 BAPTIST CHURCH RD YORKTOWN, NY, 10598

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PARTIAL

SITE PLAN

DATE: 07/28/2021

PV-100.1 SHEET NUMBER:

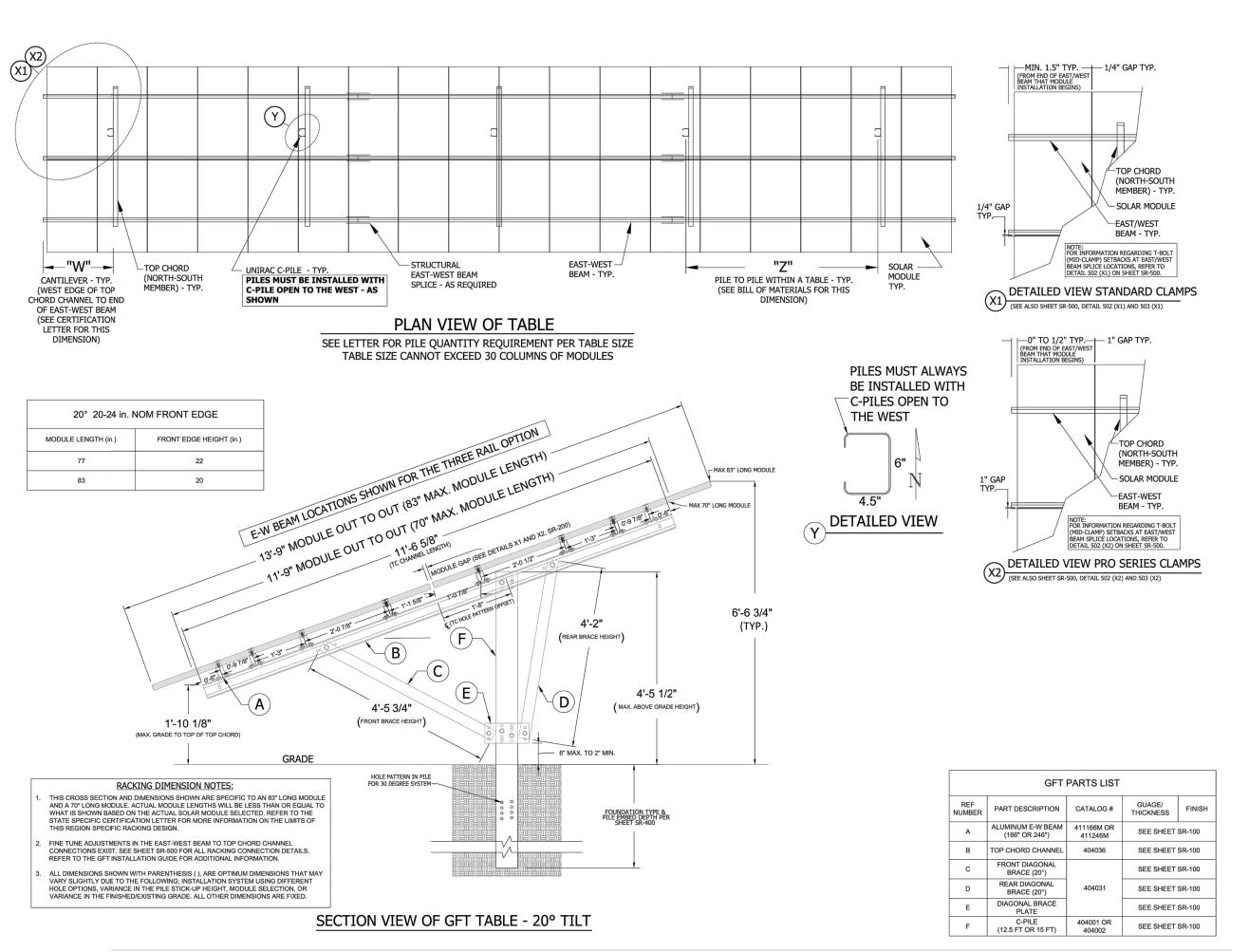
SYMBOLS LEGEND:

EXISTING UTILITY POLE PROPOSED UTILITY POLE

LINETYPE LEGEND:

APPROXIMATE PROPERTY LINE PROPERTY LINE SETBACK PROPOSED CHAINLINK FENCE OVERHEAD ELECTRIC UNDERGROUND ELECTRIC APPROXIMATE WETLAND BOUNDARY

WETLAND 100' BUFFER





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Project Site

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YORKTOWN, NY, 10598							
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PRELIMINARY

SHEET NAME:

GROUND MOUNT ELEVATION

PROJECT NUMBER: DRAWN BY: CHECKED BY: DQP ---DATE: DWG. NUMBER: O7/28/2021
SHEET NUMBER: PV-200

20 DEGREE UNIRAC STEEL C-PILE FOUNDATION DEPTHS (REFER TO SHEET SR-200 FOR PILE STICK-UP HEIGHT) (c)

FOUNDATION TYPE	DETAIL NUMBER	DIMENSION "C"		
FULLY DRIVEN PILE (b)	403	8'-0"		

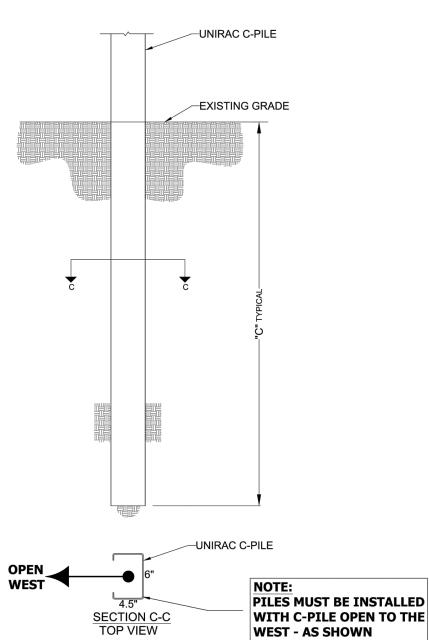
(c) BASED ON THE PILE STICK-UP HEIGHT FOR A STANDARD 20 DEGREE GFT TABLE, ALL PILE EMBEDMENT DEPTHS THAT ARE 8'-1" OR GREATER, REQUIRE A 15 FT LONG PILE.

30 DEGREE UNIRAC STEEL C-PILE FOUNDATION DEPTHS

(REFER TO SHEET SR-300 FOR PILE STICK-UP HEIGHT) (e)

FOUNDATION TYPE	DETAIL NUMBER	DIMENSION "C"					
FULLY DRIVEN PILE (d)	403 8'-6"						
(d) PILE EMBEDMENT DEPTH NEEDS TO BE VERIFIED BY PILE TESTING OR FROM A GEOTECHNICAL OR PROFESSIONAL							

(e) BASED ON THE PILE STICK-UP HEIGHT FOR A STANDARD 30 DEGREE GFT TABLE, ALL PILE EMBEDMENT DEPTHS THAT ARE 6'-4" OR GREATER, REQUIRE A 15 FT LONG PILE.





FOUNDATION 403: FULLY DRIVEN PILE

- DRIVEN PILE FOUNDATIONS MAY NOT BE USED IN SOILS THAT CONTAIN SILT OR CLAY WITH GROUNDWATER WITHIN 12 FEET OF THE SURFACE UNLESS APPROVED BY A GEOTECHNICAL ENGINEER. IT IS RECOMMENDED TO VERIFY GROUNDWATER IS NOT PRESENT IF USING THIS FOUNDATION TYPE IN FROST PRONE REGIONS.
- PILES MUST BE INSTALLED TO THE FULL DEPTH. PILES NOT DRIVEN TO FULL DEPTH ARE CONSIDERED FAILED PILES AND A DIFFERENT FOUNDATION MUST BE UTILIZED.
- FOUNDATIONS MUST NOT BE INSTALLED IN ORGANIC SOILS OR IN AREAS WITH GROUNDWATER NEAR THE SURFACE.
- PILE EMBEDMENT MUST BE DETERMINED BY A LICENSED CIVIL ENGINEER OR BY SITE PILE TESTS.



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Ecogy New York XIII LLC

Project Name: ARCADIA GROUND 985.88 kW-DC

Project Site:

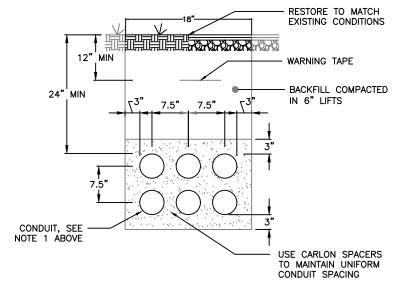
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GROUND MOUNT FI FVATION

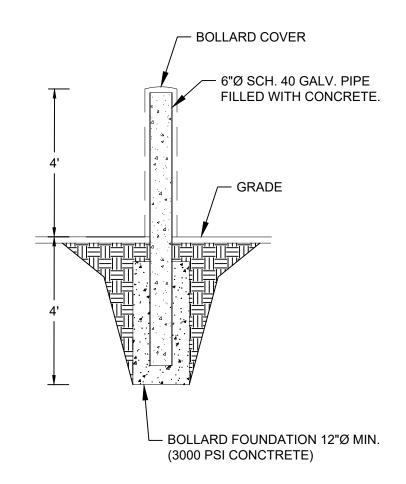
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	DQP						
DATE:	DWG.	NUMBER:					
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- ALL UNDEGROUND CONDUIT SHALL BE PVC AND TRANSITION TO RMC FOR ELBOW. RMC ELBOW DOES NOT NEED TO BE BONDED IF ANY PART OF THE ELBOW IS 18" DEEP (NEC 250.86
- EXCEPTION 3)

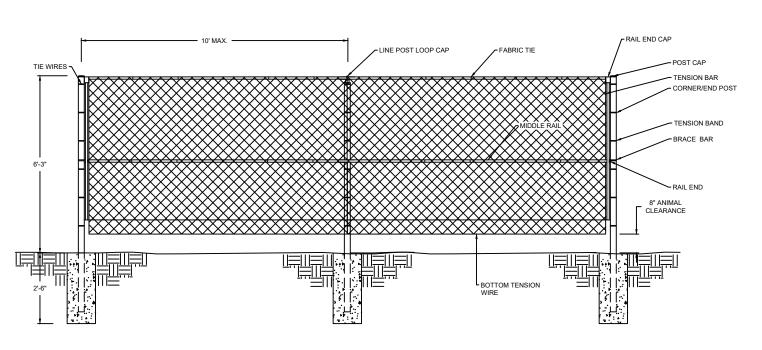
 2. UNDER ROADS AND PARKING AREAS ENCASEMENT SHALL BE 3000 PSI CONCRETE. UNDER GRASSY AREAS ENCASEMENT SHALL
- 3. COORDINATE WITH DIG SAFE AND LOCAL UTILITIES PRIOR TO **EXCAVATING**

TRENCH DETAIL



BOLLARD DETAIL

N.T.S.



FENCE DETAIL

N.T.S.

FENCING TO BE ANIMAL FRIENDLY WITH AN 8" MIN.
 CLEARANCE FROM BOTTOM OF FENCE TO THE GROUND.



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MISC. MECHANICAL

DETAILS PROJECT NUMBER: DRAWN BY: DATE: 07/28/2021

SHEET NUMBER: