

Appendix B

Site Plan

Athos Solar Project

500 MW

Riverside County, California

Conditional Use Permit Site Plan

PROJECT DESCRIPTION

SINGLE AXIS TRACKER SOLAR ARRAY PROJECT. APPROXIMATELY 3,600 ACRES, INCLUDING 3,250 ACRES OF PRIVATE LAND.

PROJECT LOCATION

LATITUDE= 33° 44' 43.08"
 LONGITUDE= -115° 20' 56.4"

LEGAL DESCRIPTION

SEE PARCEL CONSTRAINTS MAP FOR LEGAL DESCRIPTION

PROJECT COORDINATE SYSTEM

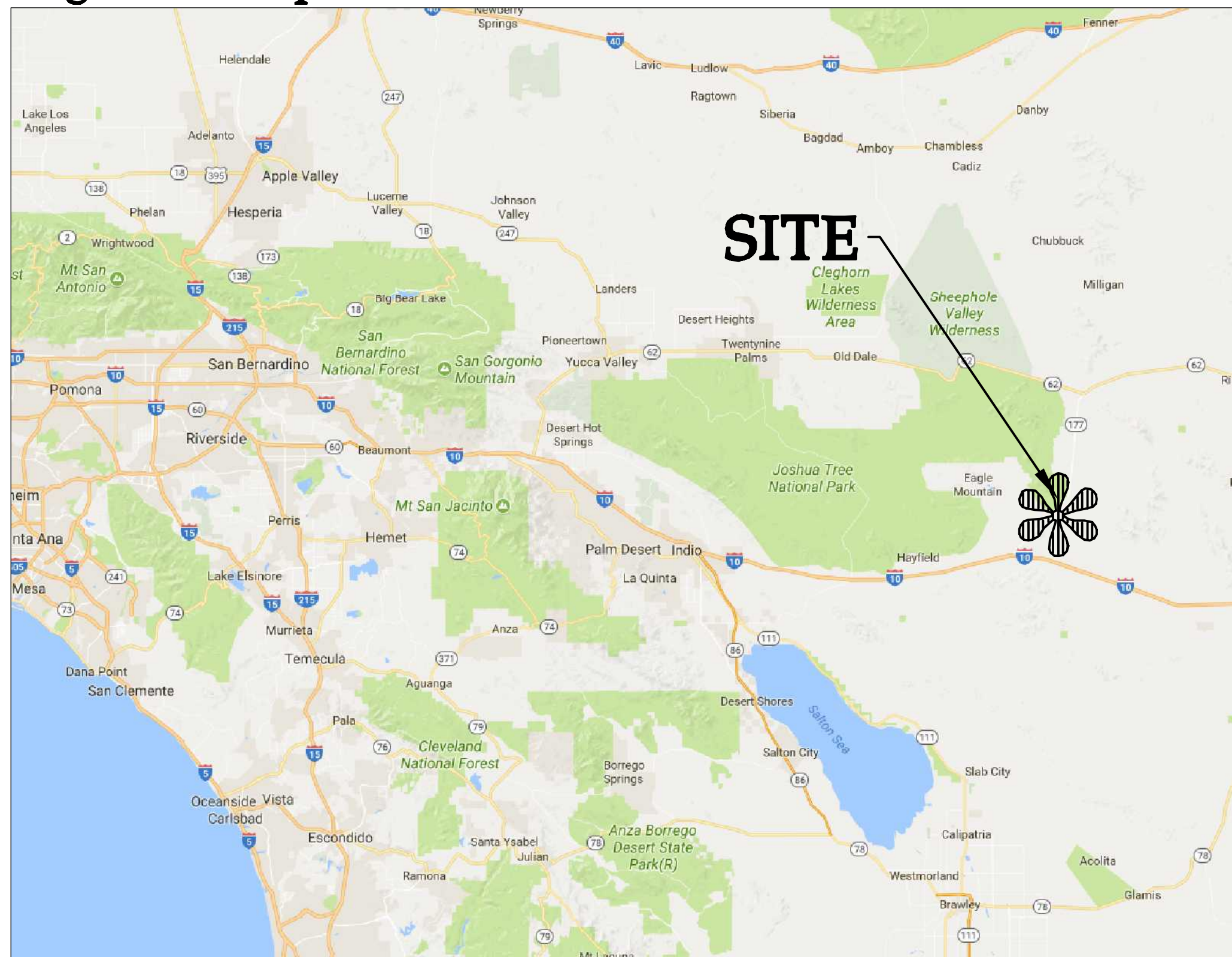
NSRS 2011 CALIFORNIA STATE PLANES ZONE IV, US FOOT

BASIS OF ELEVATION

CONTOURS SHOWN WERE GENERATED FROM AVAILABLE PUBLIC DATA

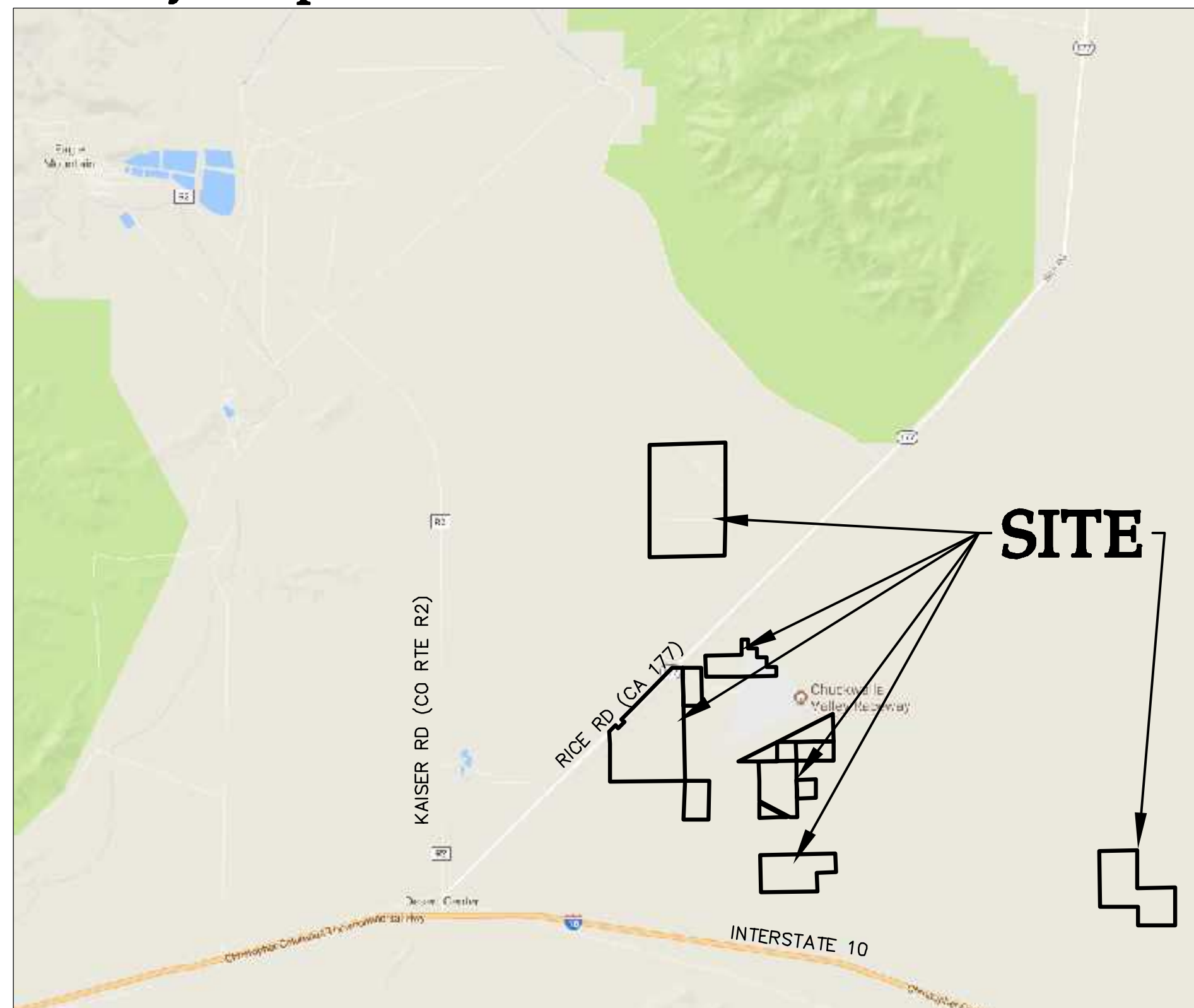
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C.201	EXISTING CONDITIONS-2
C.202	EXISTING CONDITIONS-3
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C.207	EXISTING CONDITIONS-8
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C.312	CIVIL SITE PLAN-13
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C.400	CONSTRUCTION DETAILS
C.401	CONSTRUCTION DETAILS
C.402	CONSTRUCTION DETAILS
C.403	CONSTRUCTION DETAILS
C.404	EROSION CONTROL DETAILS
C.405	CONSTRUCTION NOTES

Regional Map



SOURCE: MAP DATA ©2017 GOOLGE (NOT TO SCALE)

Vicinity Map



SOURCE: MAP DATA ©2017 GOOLGE (NOT TO SCALE)

Quantities	
Item	Quantity
Security Fence Length	148,850 LF
20' Access Road Centerline Length	175,200 LF
16' Internal Road Centerline Length	182,250 LF
Silt Fence Lenth	71,350 LF
24' Swing Gate	19 EA

Earthwork		
Item	Cut	Fill
Site Grading	0 CY	0 CY
Total	0 CY	0 CY

Westwood

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
 Fax (952) 937-5822 Minnetonka, MN 55343
 Toll Free (888) 937-5150 westwoodps.com
 Westwood Professional Services, Inc.

Revised Amendments

Designed: **ETP**
 Checked: **ADC**
 Drawn: **ETP**
 Record Drawing by/date: _____

Prepared for:

IP Athos, LLC

548 MARKET STREET
 SAN FRANCISCO, CA 94104 USA
 (415) 675-1500

Athos Solar

Riverside County, CA

Date: **01/15/19** Sheet: **T.100**

Cover

Athos Solar Project

500 MW Riverside County, California Conditional Use Permit Site Plan

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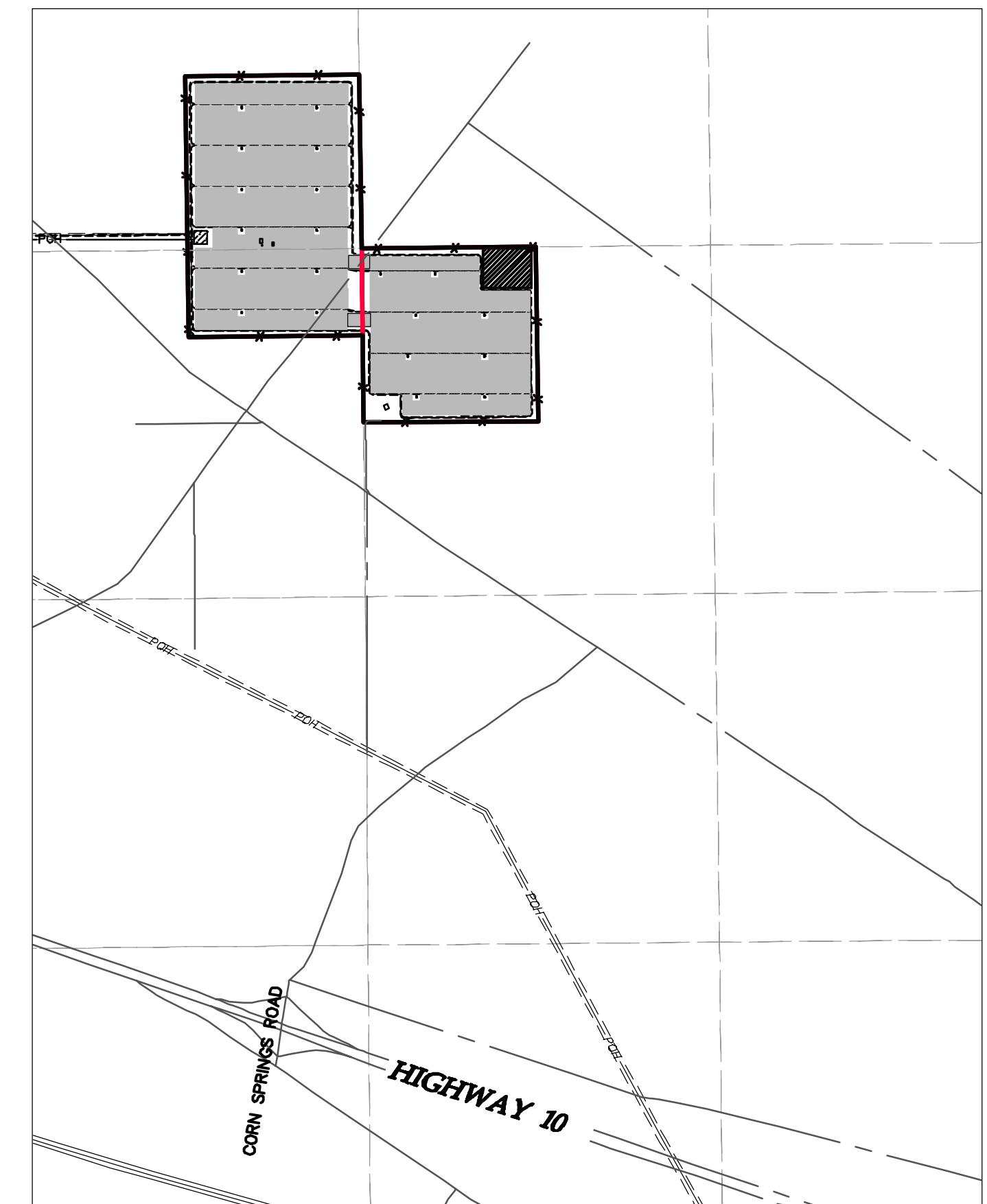
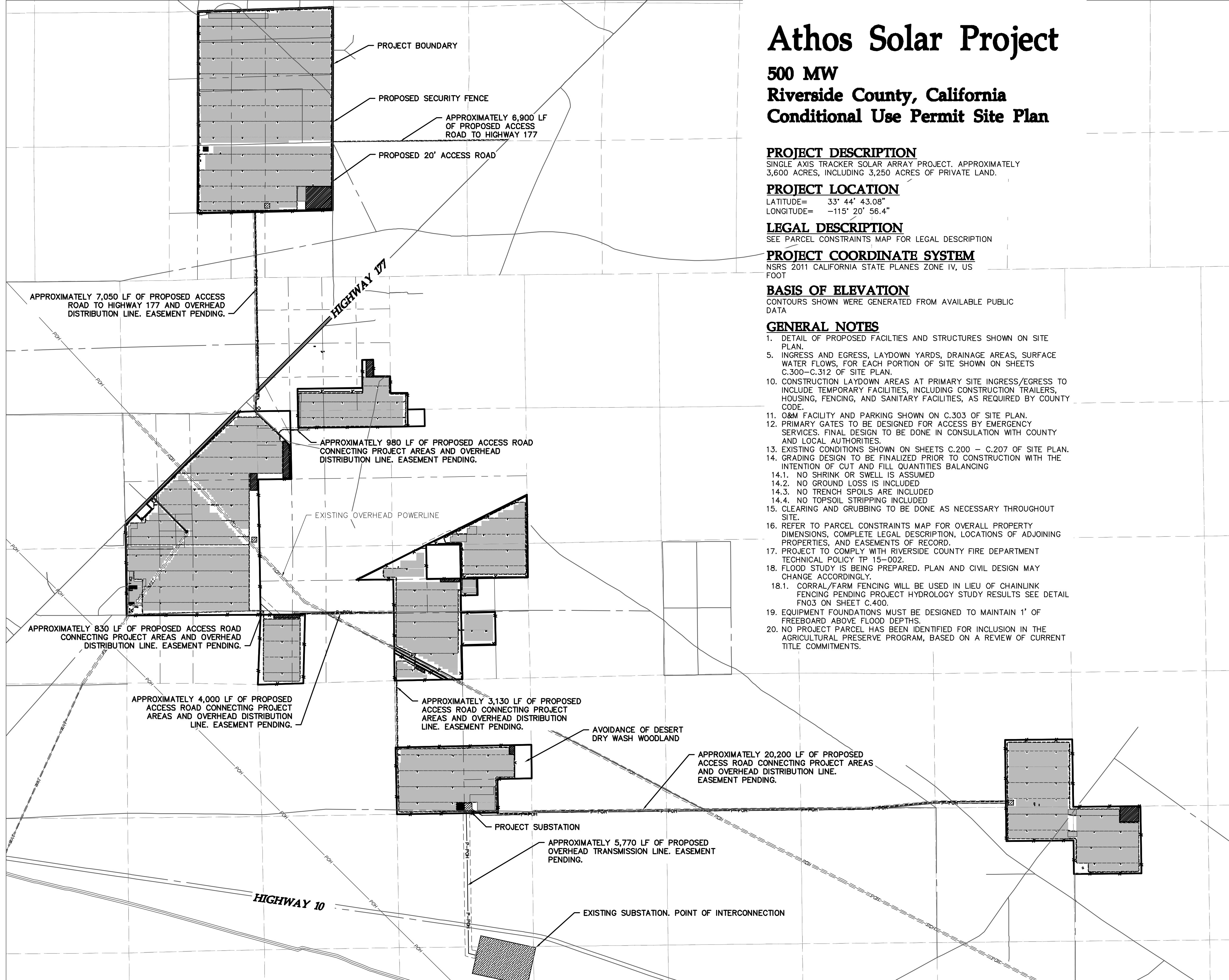
NSRS 2011 CALIFORNIA STATE PLANES ZONE IV, US FOOT

BASIS OF ELEVATION

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GENERAL NOTES

1. DETAIL OF PROPOSED FACILITIES AND STRUCTURES SHOWN ON SITE PLAN.
5. INGRESS AND EGRESS, LAYDOWN YARDS, DRAINAGE AREAS, SURFACE WATER FLOWS, FOR EACH PORTION OF SITE SHOWN ON SHEETS C.300-C.312 OF SITE PLAN.
10. CONSTRUCTION LAYDOWN AREAS AT PRIMARY SITE INGRESS/EGRESS TO INCLUDE TEMPORARY FACILITIES, INCLUDING CONSTRUCTION TRAILERS, HOUSING, FENCING, AND SANITARY FACILITIES, AS REQUIRED BY COUNTY CODE.
11. O&M FACILITY AND PARKING SHOWN ON C.303 OF SITE PLAN.
12. PRIMARY GATES TO BE DESIGNED FOR ACCESS BY EMERGENCY SERVICES. FINAL DESIGN TO BE DONE IN CONSULTATION WITH COUNTY AND LOCAL AUTHORITIES.
13. EXISTING CONDITIONS SHOWN ON SHEETS C.200 - C.207 OF SITE PLAN.
14. GRADING DESIGN TO BE FINALIZED PRIOR TO CONSTRUCTION WITH THE INTENTION OF CUT AND FILL QUANTITIES BALANCING
 - 14.1. NO SHRINK OR SWELL IS ASSUMED
 - 14.2. NO GROUND LOSS IS INCLUDED
 - 14.3. NO TRENCH SPOILS ARE INCLUDED
 - 14.4. NO TOPSOIL STRIPPING INCLUDED
15. CLEARING AND GRUBBING TO BE DONE AS NECESSARY THROUGHOUT SITE.
16. REFER TO PARCEL CONSTRAINTS MAP FOR OVERALL PROPERTY DIMENSIONS, COMPLETE LEGAL DESCRIPTION, LOCATIONS OF ADJOINING PROPERTIES, AND EASEMENTS OF RECORD.
17. PROJECT TO COMPLY WITH RIVERSIDE COUNTY FIRE DEPARTMENT TECHNICAL POLICY TP 15-002.
18. FLOOD STUDY IS BEING PREPARED. PLAN AND CIVIL DESIGN MAY CHANGE ACCORDINGLY.
 - 18.1. CORRAL/FARM FENCING WILL BE USED IN LIEU OF CHAINLINK FENCING PENDING PROJECT HYDROLOGY STUDY RESULTS SEE DETAIL FN03 ON SHEET C.400.
19. EQUIPMENT FOUNDATIONS MUST BE DESIGNED TO MAINTAIN 1' OF FREEBOARD ABOVE FLOOD DEPTHS.
20. NO PROJECT PARCEL HAS BEEN IDENTIFIED FOR INCLUSION IN THE AGRICULTURAL PRESERVE PROGRAM, BASED ON A REVIEW OF CURRENT TITLE COMMITMENTS.

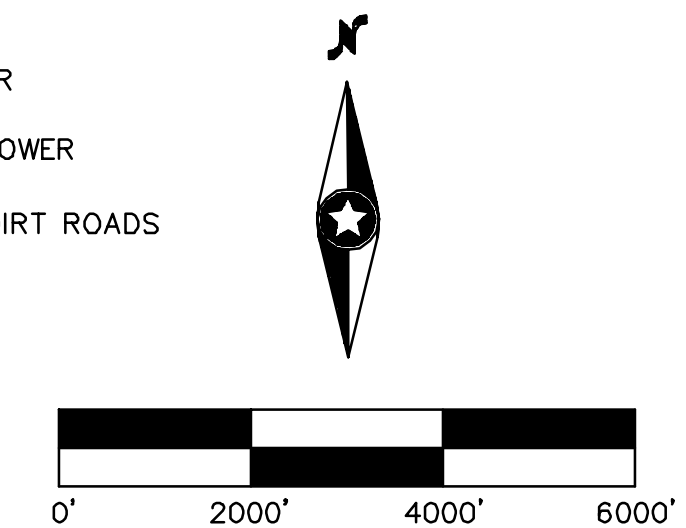


Quantities	
Item	Quantity
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20' Access Road Centerline Length	175,200 LF
16' Internal Road Centerline Length	182,250 LF
Silt Fence Length	71,350 LF
24' Swing Gate	19 EA

Earthwork		
Item	Cut	Fill
Site Grading	0 CY	0 CY
Total	0 CY	0 CY

LEGEND:

- PROJECT BOUNDARY
- SECTION LINE
- PROPOSED GRAVEL ROAD
- PROPOSED SOLAR ARRAY
- PROPOSED SECURITY FENCE
- EXISTING OVERHEAD POWER
- PROPOSED OVERHEAD POWER
- PROPOSED UNDERGROUND POWER
- EXISTING BITUMINOUS AND DIRT ROADS
- PROPOSED EASEMENT



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Date: 01/15/19 Sheet: C.100

Athos Solar

Riverside County, CA

Overall Site Plan

Westwood

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
 Fax (952) 937-5822 Minnetonka, MN 55343
 Toll Free (888) 937-5150 westwoodps.com
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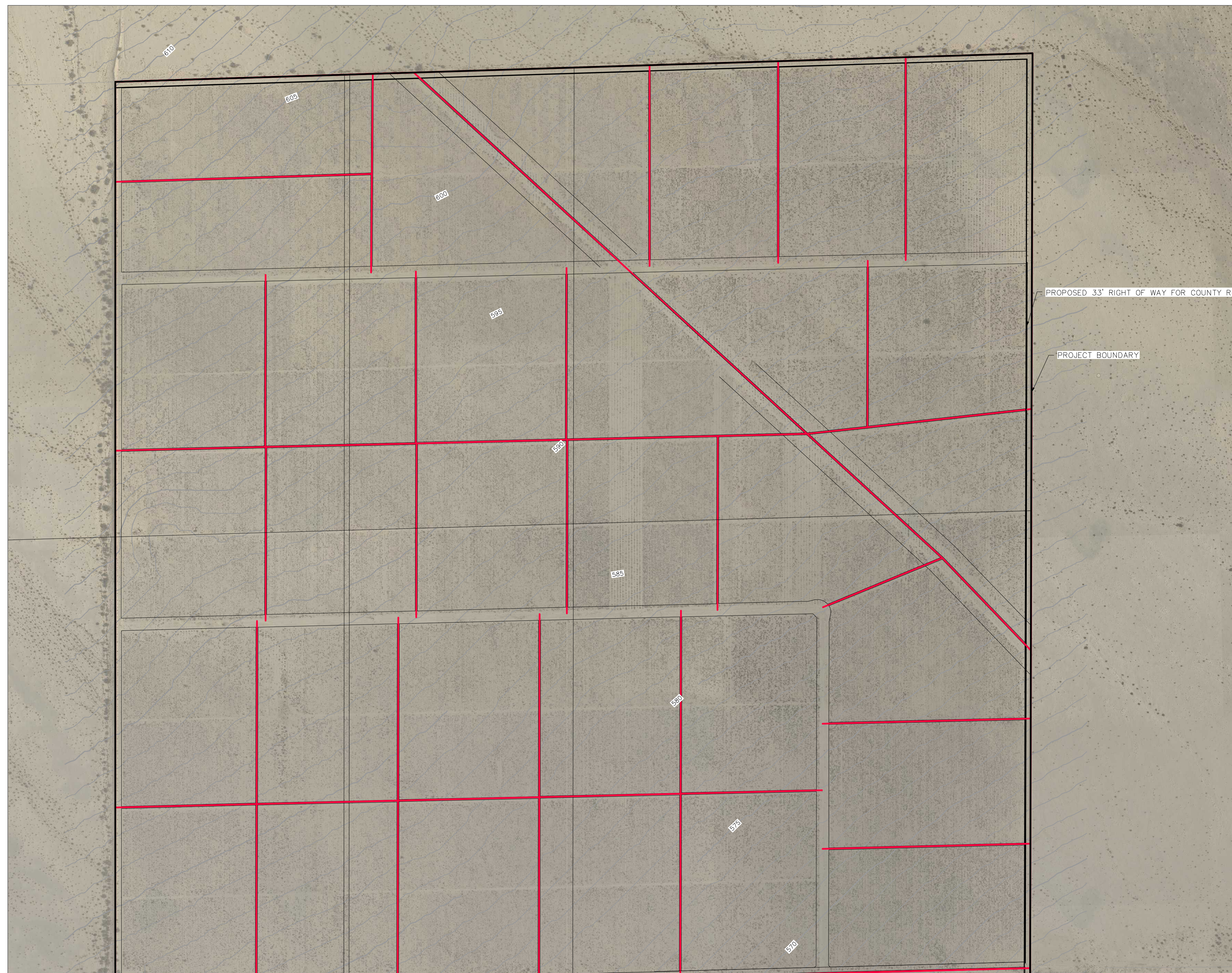
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Amendments:	

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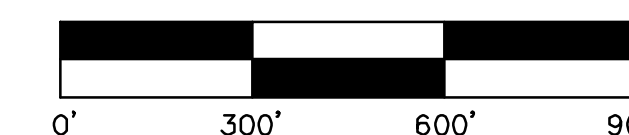
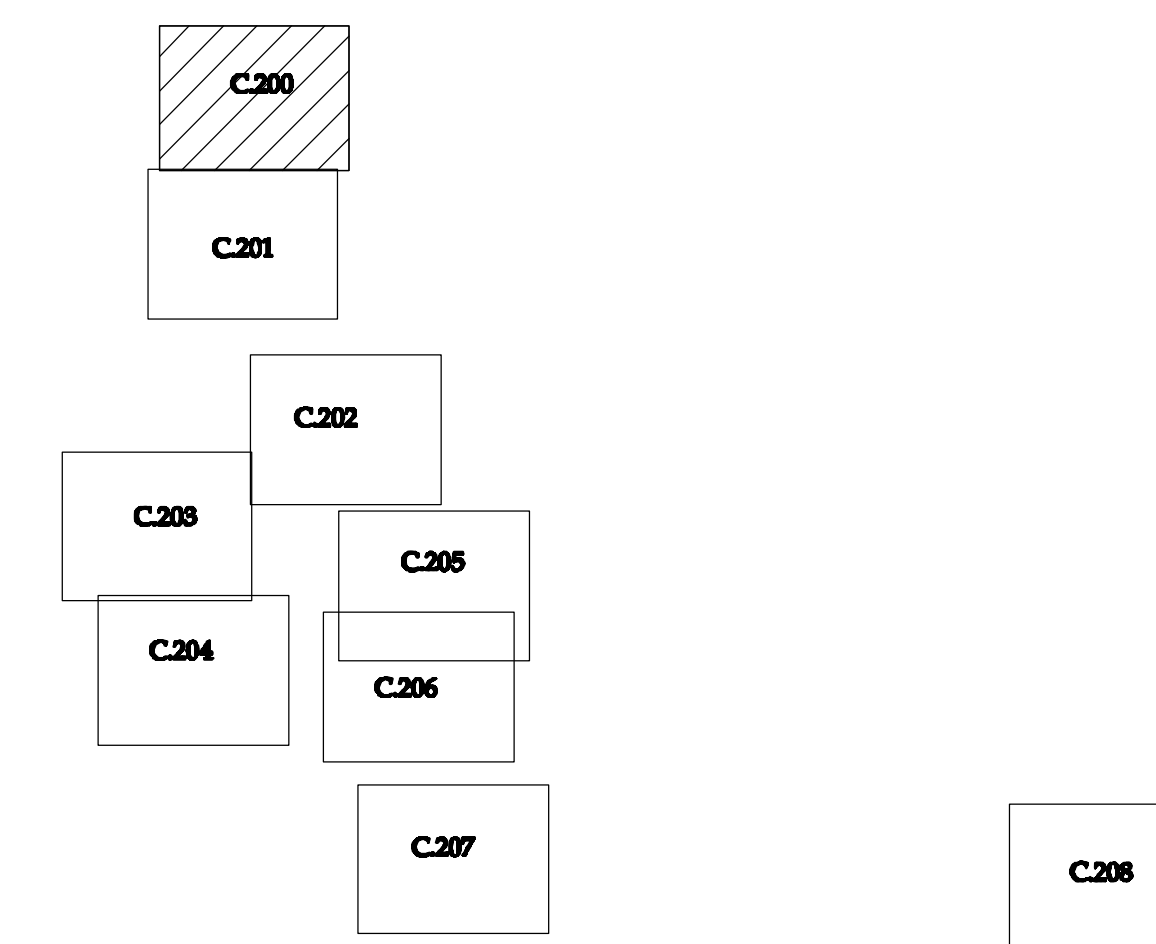
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- SECTION LINE
- EXISTING OVERHEAD POWER
- EXISTING 5' CONTOURS
- EXISTING 1' CONTOURS
- EXISTING PAVED ROAD
- POTENTIAL STORMWATER MANAGEMENT AREAS
- EXISTING BUILDING
- EXISTING EASEMENT LINE
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NOTES:

1. THE PARCELS SHOWN HERE ARE PROPOSED TO BE MERGED, AND PUBLIC RIGHTS-OF-WAY AND EASEMENTS VACATED. PRIVATE EASEMENTS TO REMAIN, AS SHOWN ON CIVIL SITE PLAN SHEETS.

KEY MAP:



001.3768-EXF01.dwg

Date: **01/15/19** Sheet: **C.200**

Athos Solar

Riverside County, CA

Existing Conditions-1

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 Toll Free (888) 937-5150 westwoodps.com
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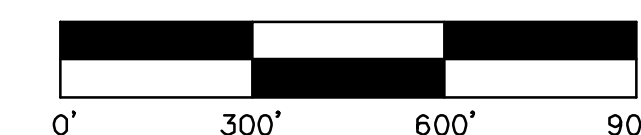
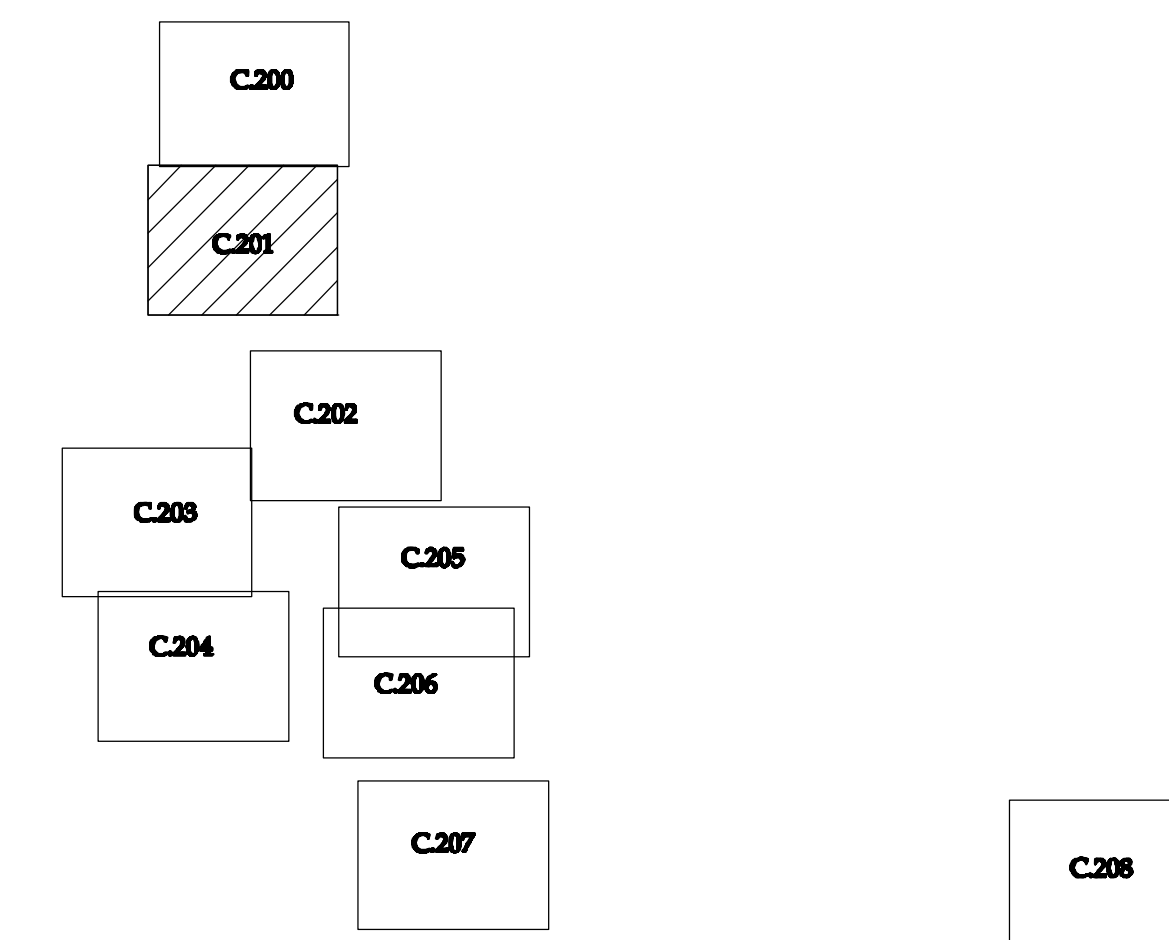
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KEY MAP:



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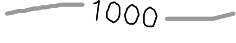


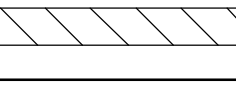
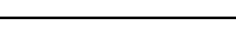
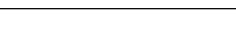
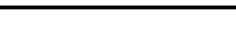


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Riverside County, CA

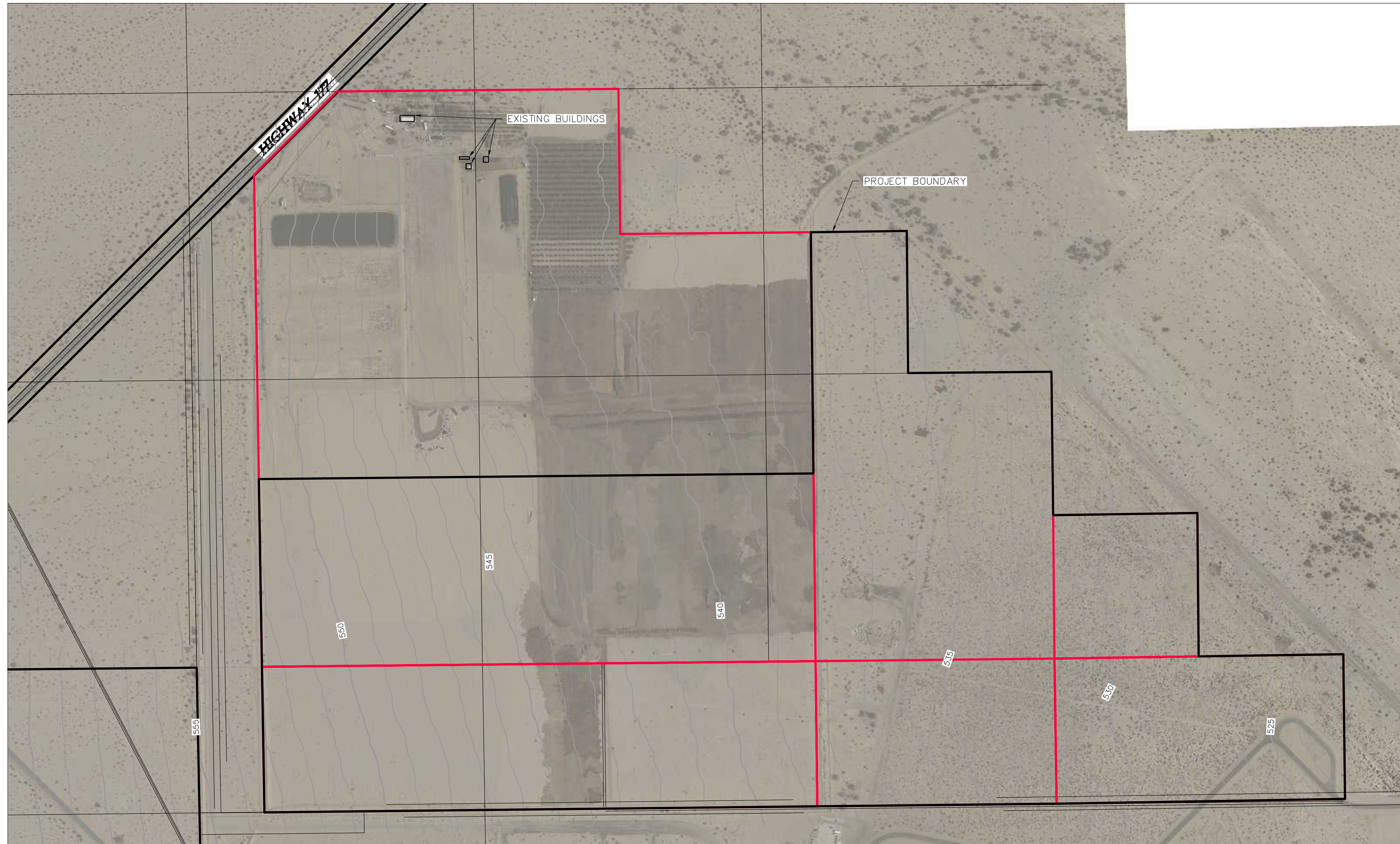
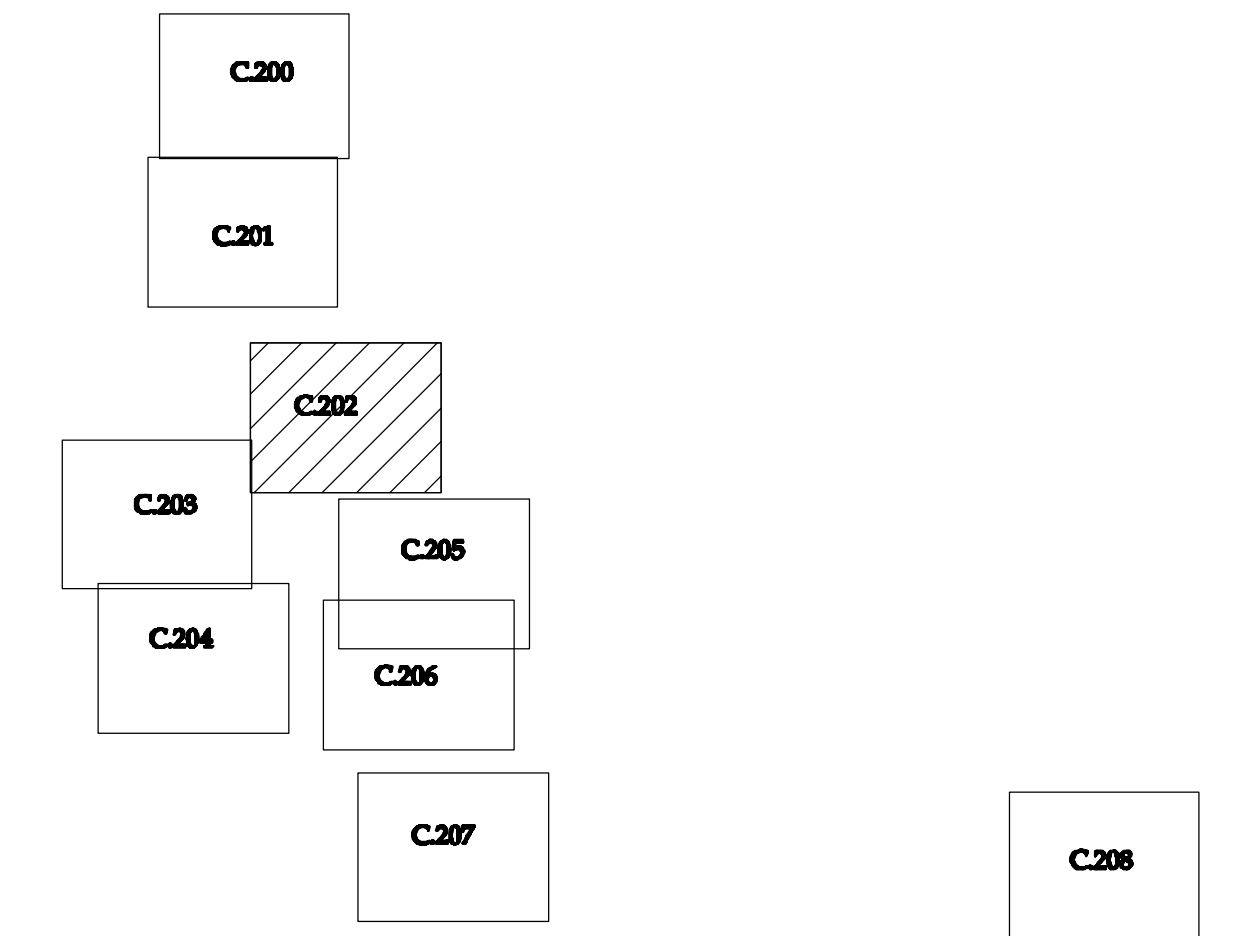
Existing Conditions-2

LEGEND:

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- NOTES:
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KEY MAP:



Athos Solar

Riverside County, CA

Existing Conditions-3

Westwood

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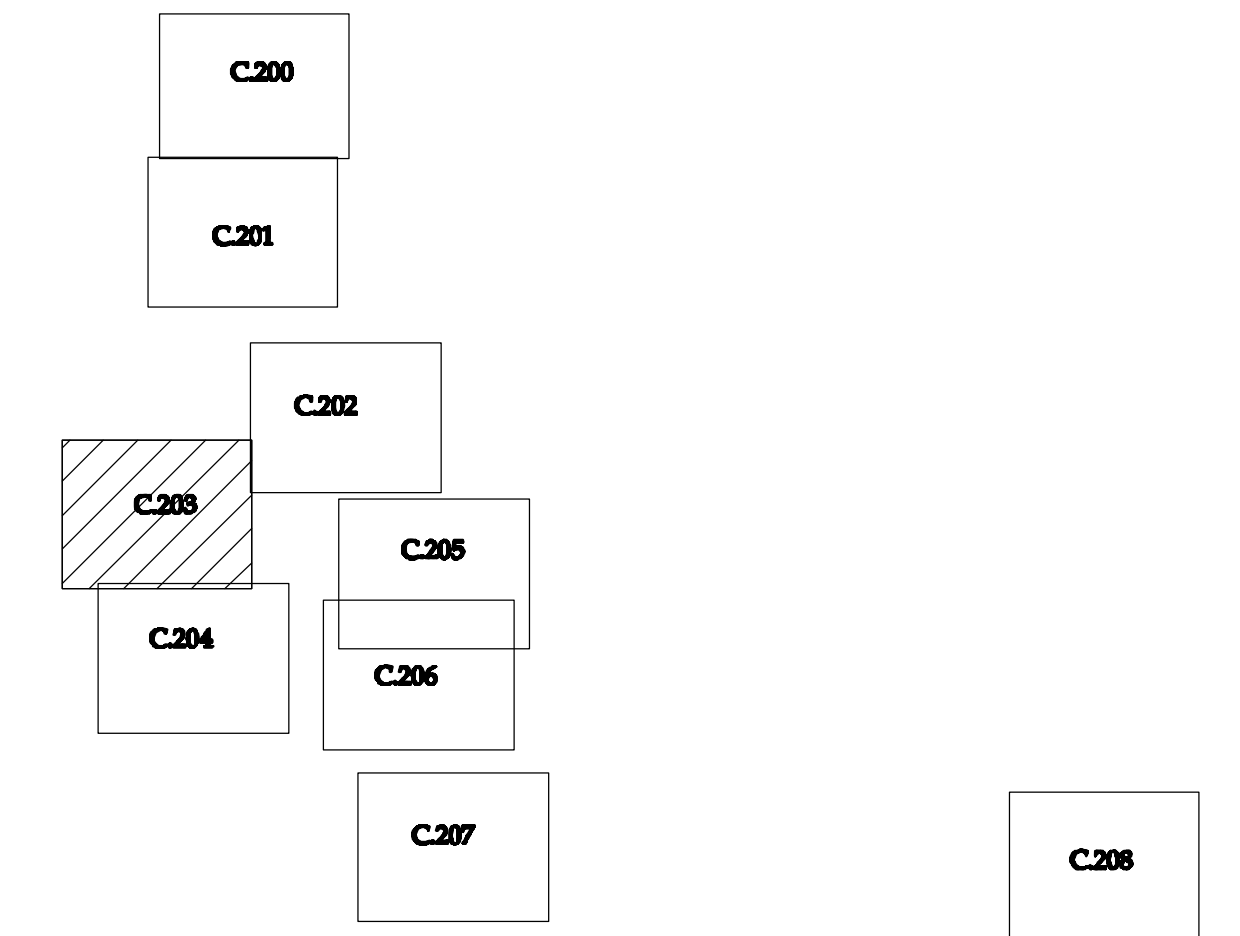
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KEY MAP:



001.3768-EXF01.dwg

Date: **01/15/19** Sheet: **C.203**

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Riverside County, CA

Existing Conditions-4

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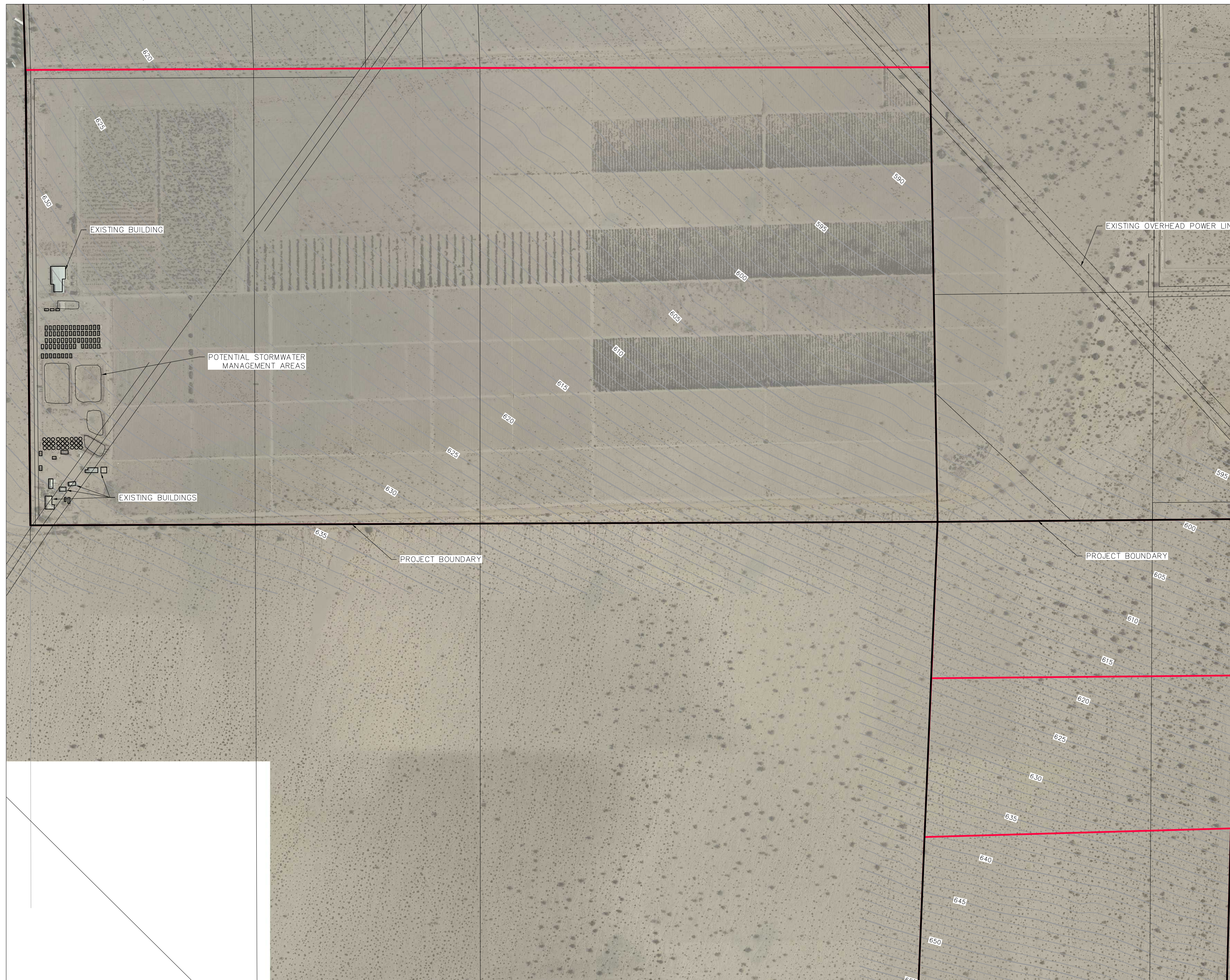
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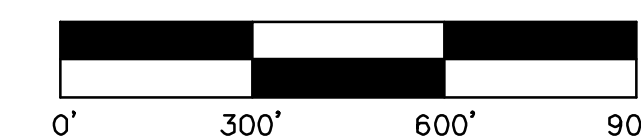
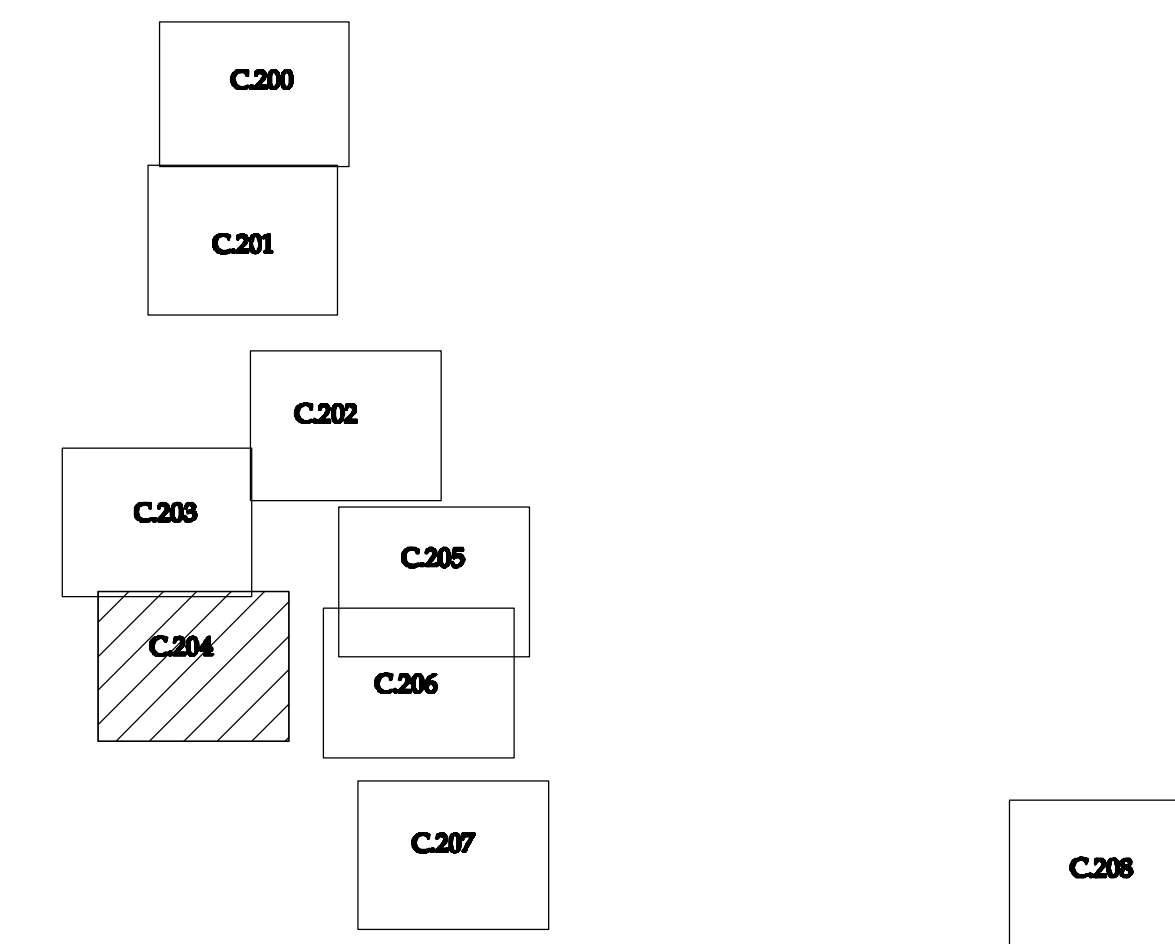
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KEY MAP:



001.3768-EXF01.dwg

Date: **01/15/19** Sheet: **C.204**

Athos Solar

Riverside County, CA

Existing Conditions-5

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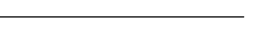
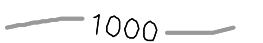


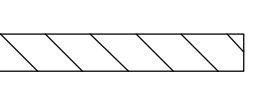
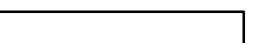



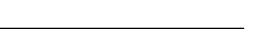
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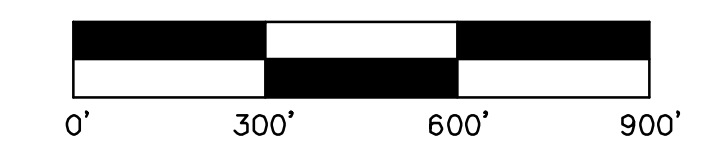
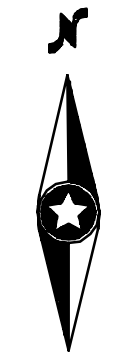
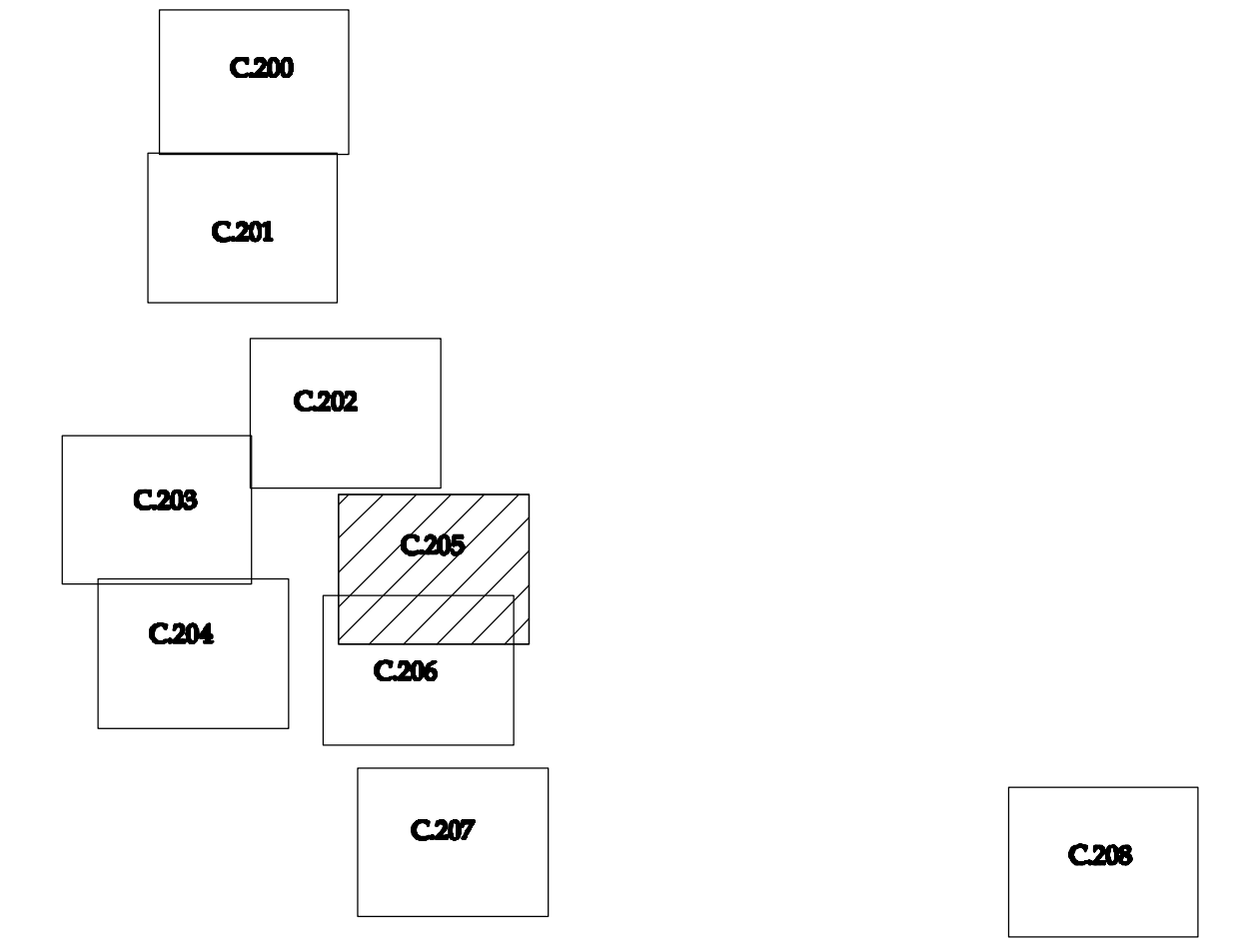
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KEY MAP:





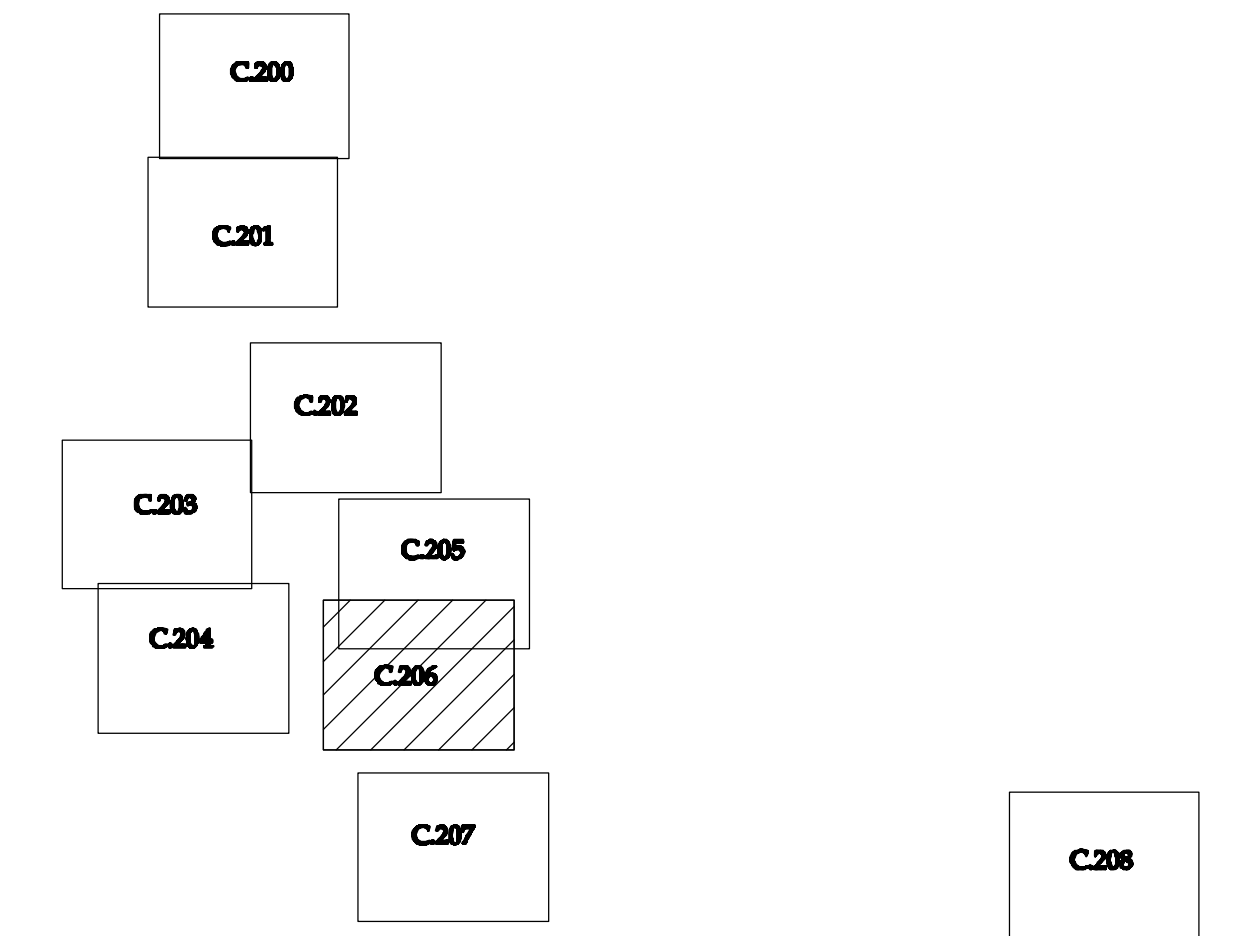
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001.3768-EXF01.dwg

Date: **01/15/19** Sheet: **C.206**

Athos Solar

Riverside County, CA

Existing Conditions-7

Westwood

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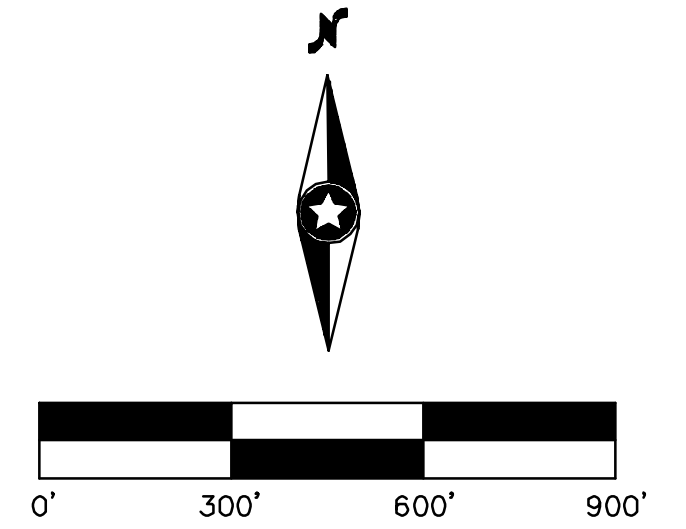
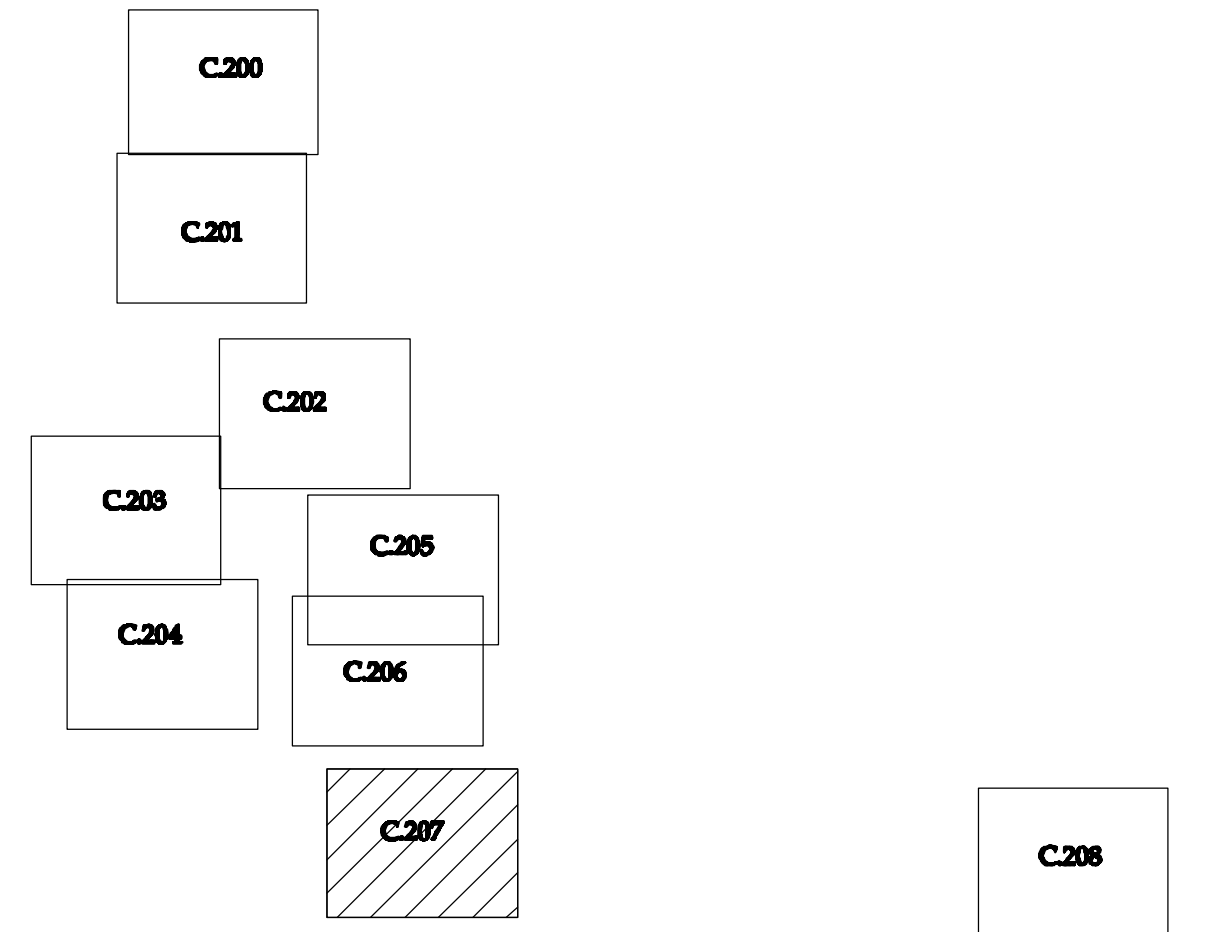


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001.3768-EXF01.dwg

Date: **01/15/19** Sheet: **C.207**

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Existing Conditions-8

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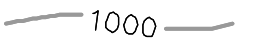


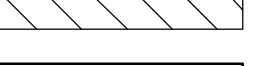





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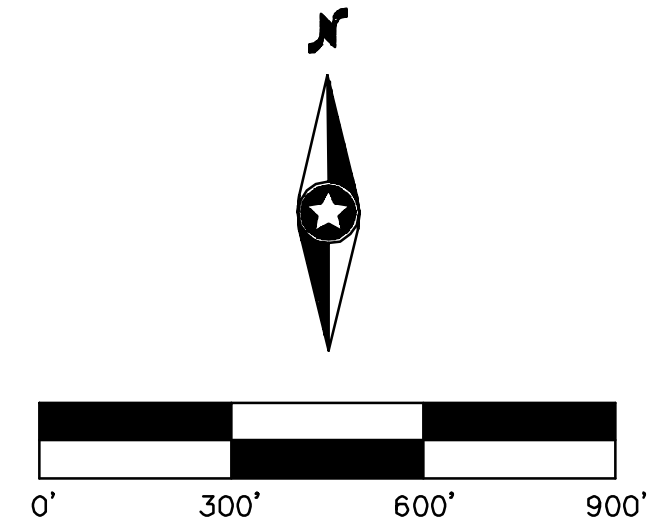
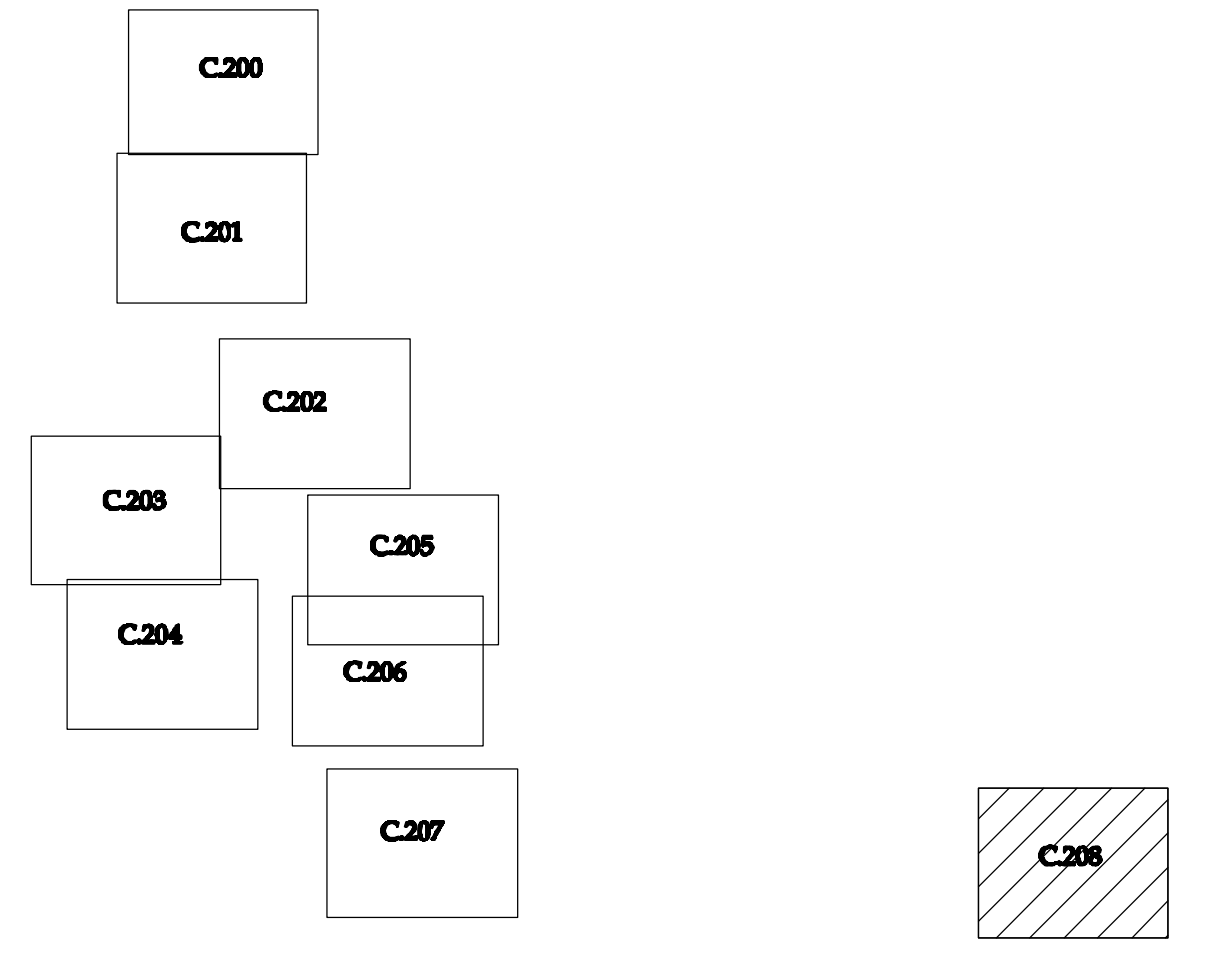
LEGEND:

-  PROJECT BOUNDARY
-  SECTION LINE
-  EXISTING OVERHEAD POWER
-  EXISTING 5' CONTOURS
-  EXISTING 1' CONTOURS
-  EXISTING PAVED ROAD
-  POTENTIAL STORMWATER MANAGEMENT AREAS
-  EXISTING BUILDING
-  EXISTING EASEMENT LINE
-  EXISTING RIGHT OF WAY LINE
-  EXISTING RIGHT OF WAY LINE
-  EXISTING EASEMENT CENTERLINE

NOTES:

1. THE PARCELS SHOWN HERE ARE PROPOSED TO BE MERGED, AND PUBLIC RIGHTS-OF-WAY AND EASEMENTS VACATED. PRIVATE EASEMENTS TO REMAIN, AS SHOWN ON CIVIL SITE PLAN SHEETS.

KEY MAP:



001.3768-EXF01.dwg

Date: **01/15/19** Sheet: **C.208**

Athos Solar

Riverside County, CA

Existing Conditions-9



Westwood

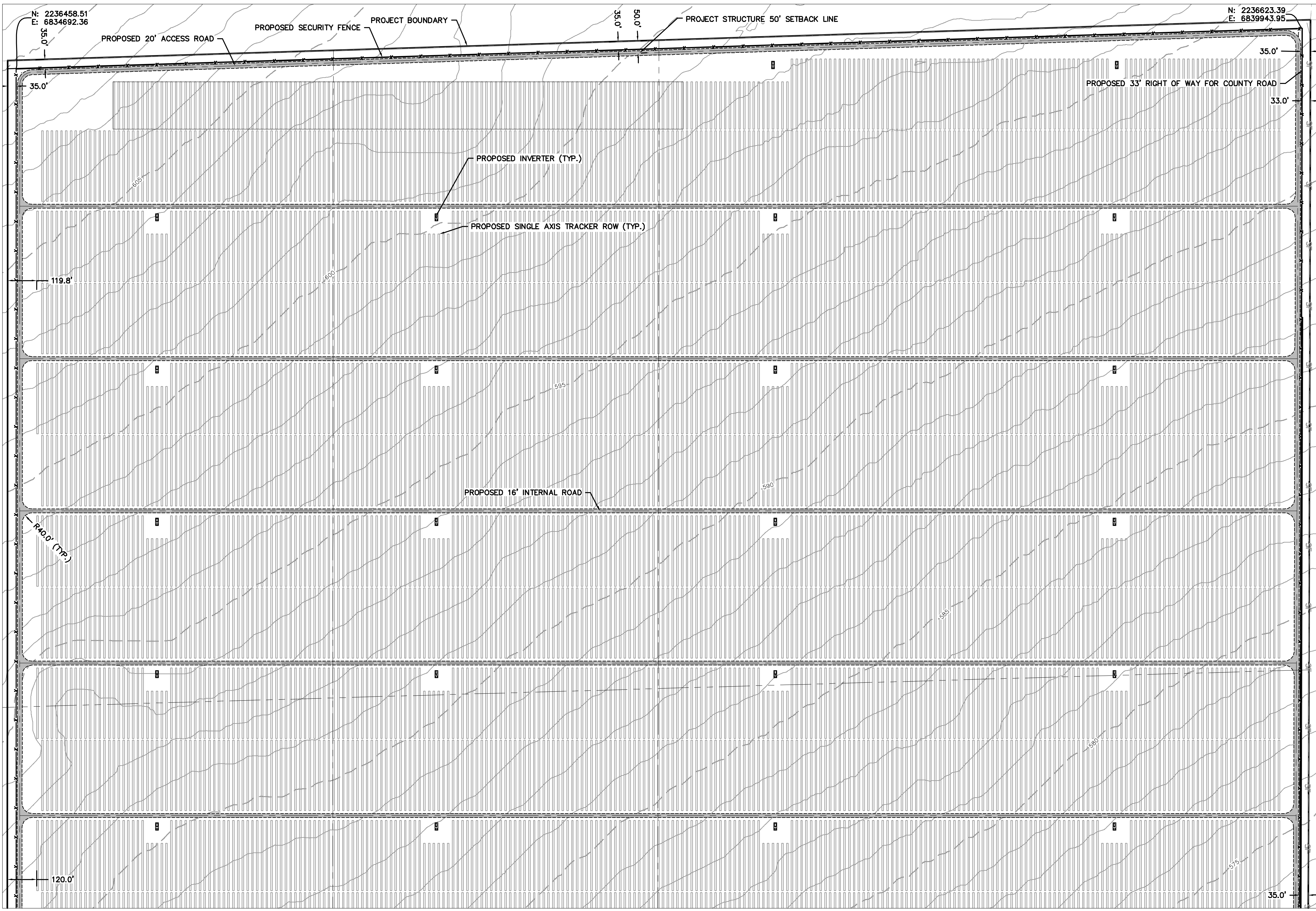
Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
 Fax (952) 937-5822 Minnetonka, MN 55343
 Toll Free (888) 937-5150 westwoodps.com
 Westwood Professional Services, Inc.

Revised	Amendment

Design:	FTB
Checked:	ADC
Drawn:	FTB
Record Drawing by/date:	

Prepared for:

IP Athos, LLC
 548 MARKET STREET
 SAN FRANCISCO, CA 94104 USA
 (415) 675-1500

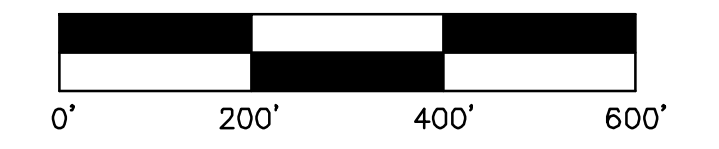
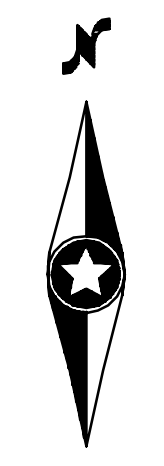
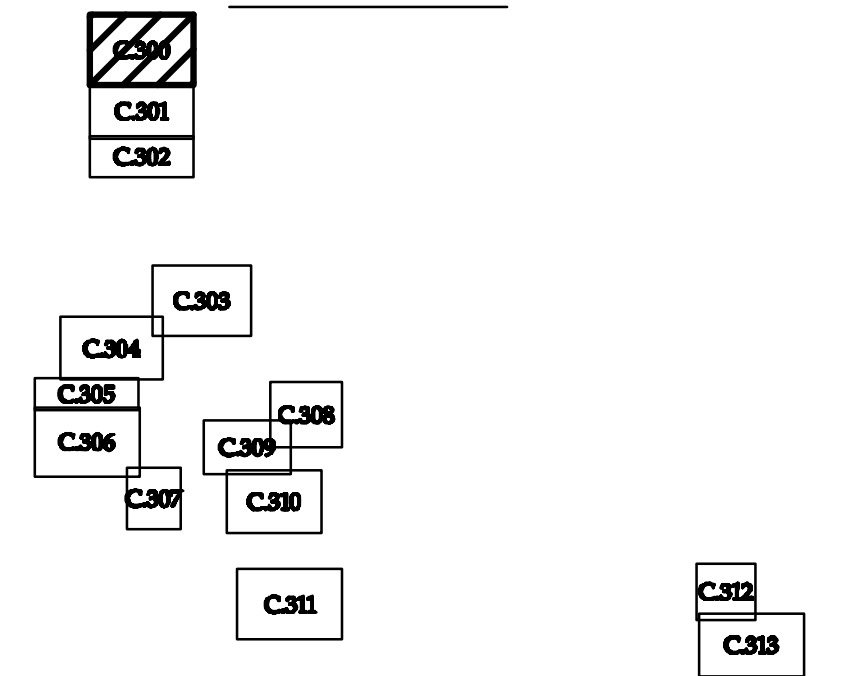


LEGEND

	PROJECT BOUNDARY/DISTURBANCE LIMITS
	PROPOSED SOLAR ARRAY
	PROPOSED ACCESS ROAD
	PROPOSED SECURITY FENCE
	POSSIBLE STORMWATER BASIN LOCATION
	PROPOSED LAYDOWN YARD LOCATION
	PROPOSED SILT FENCE
	PROPOSED OVERHEAD POWER LINE
	PROJECT STRUCTURE SETBACK LINE
	EXISTING 5' CONTOURS
	EXISTING 1' CONTOURS
	EXISTING OVERHEAD POWER LINE
	EXISTING EASEMENT LINE
	EXISTING RIGHT OF WAY LINE
	EXISTING WATER LINE
	EXISTING EASEMENT CENTERLINE
	EXISTING GROUND SLOPE

- NOTES:**
- PROJECT QUANTITIES SHOWN ON PLAN SET ARE PRELIMINARY AND ARE MEANT FOR GENERAL DISCUSSION AND GENERAL PRICING PURPOSES.
 - DESIGN ASSUMPTIONS:
 - MAX SLOPE: 10%
 - INTERIOR ROAD WIDTH: 16 FT.
 - EXTERIOR ROAD WIDTH: 20 FT.
 - FINAL GRADING DESIGN TO BE COMPLETED PRIOR TO CONSTRUCTION WITH THE INTENTION OF CUT AND FILL QUANTITIES BALANCING.
 - FLOOD STUDY IS BEING PREPARED. PLAN AND CIVIL DESIGN MAY CHANGE ACCORDINGLY.
 - CORRAL/FARM FENCING WILL BE USED IN LIEU OF CHAINLINK FENCING. PENDING PROJECT HYDROLOGY STUDY RESULTS SEE DETAIL FNO3 ON SHEET C.400
 - EQUIPMENT FOUNDATIONS MUST BE DESIGNED TO MAINTAIN 1' OF FREEBOARD ABOVE FLOOD DEPTHS.
 - THIS PLAN SHOWS THE PROJECT SITE WITH PROPOSED PARCEL MERGERS AND VACATED EASEMENTS.

KEY MAP



SEE SHEET C.301

0013768-SPF01.dwg

Date: 01/15/19 Sheet: C.300

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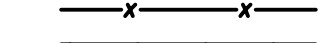

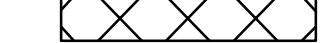

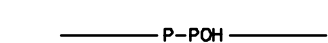
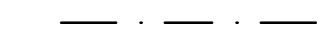
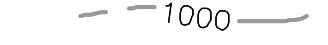

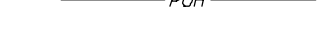

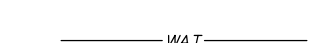
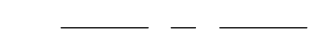
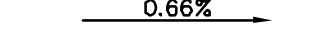

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	Checked: <u>ADC</u>
	Drawn: <u>ETP</u>
	Record Drawing by/date:

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 (415) 675-1500

Athos Solar
 Riverside County, CA

Civil Site Plan-1

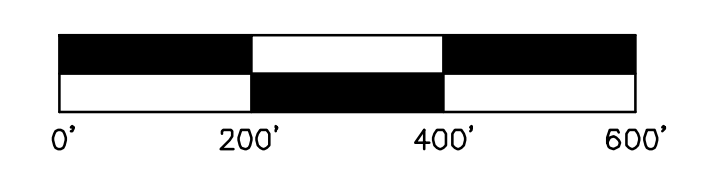
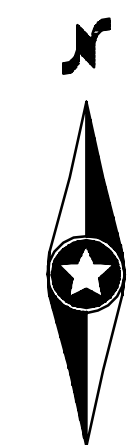
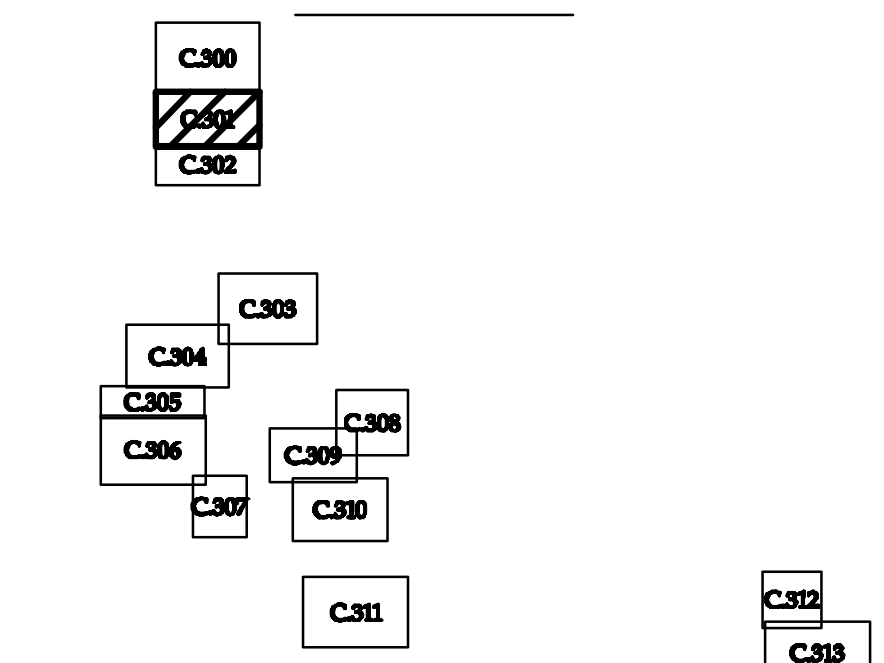
LEGEND

-  PROJECT BOUNDARY/DISTURBANCE LIMITS
-  PROPOSED SOLAR ARRAY
-  PROPOSED ACCESS ROAD
-  PROPOSED SECURITY FENCE
-  POSSIBLE STORMWATER BASIN LOCATION
-  PROPOSED LAYDOWN YARD LOCATION
-  PROPOSED SILT FENCE
-  PROJECT OVERHEAD POWER LINE
-  PROJECT STRUCTURE SETBACK LINE
-  EXISTING 5' CONTOURS
-  EXISTING 1' CONTOURS
-  EXISTING OVERHEAD POWER LINE
-  EXISTING EASEMENT LINE
-  EXISTING RIGHT OF WAY LINE
-  EXISTING WATER LINE
-  EXISTING EASEMENT CENTERLINE
-  EXISTING GROUND SLOPE

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5. THIS PLAN SHOWS THE PROJECT SITE WITH PROPOSED PARCEL MERGERS AND VACATED EASEMENTS.

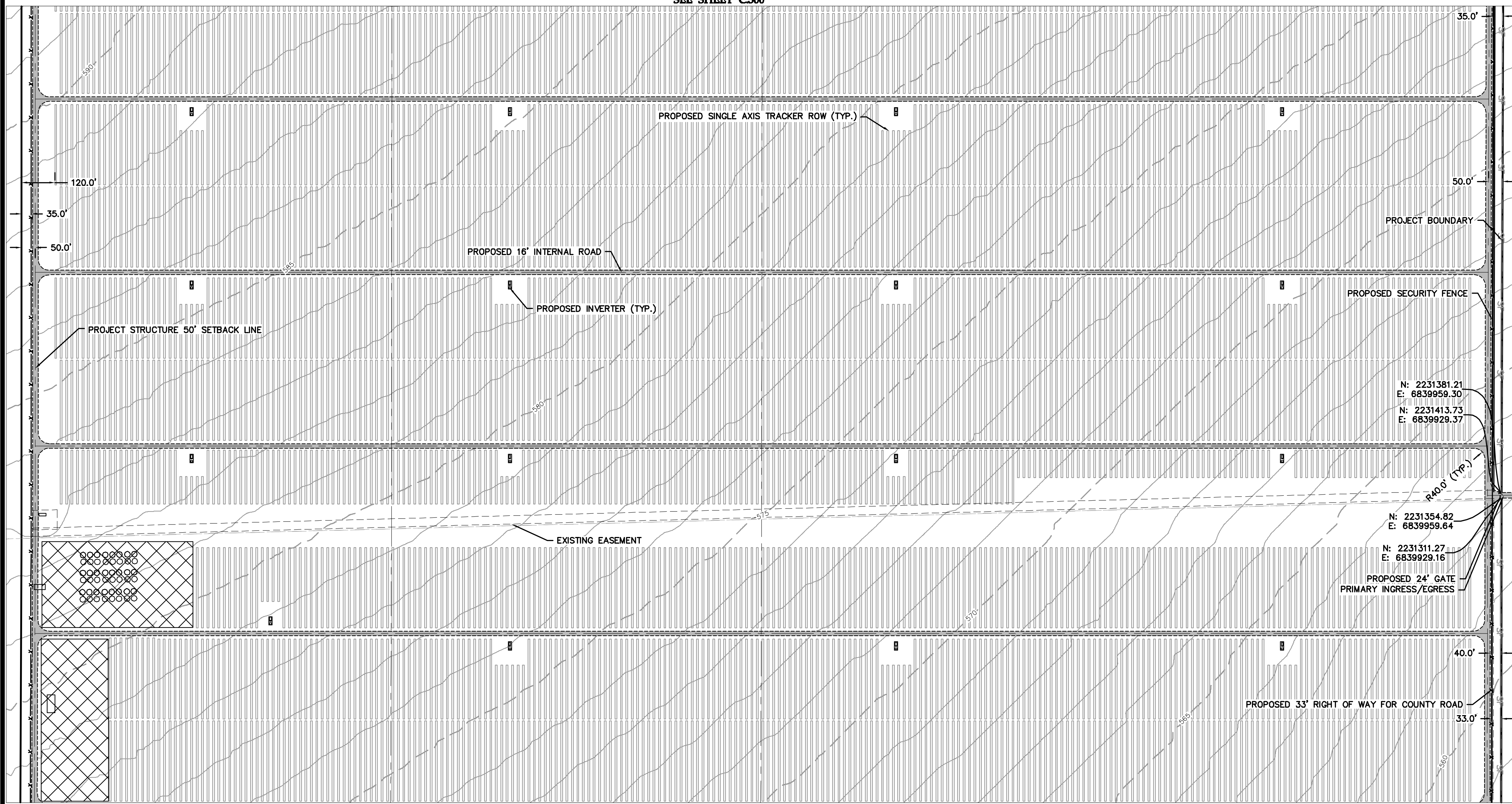
KEY MAP



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SEE SHEET C.300

SEE SHEET C.302



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E: 6839959.30
N: 2231413.73
E: 6839929.37

N: 2231354.82
E: 6839959.64

N: 2231311.27
E: 6839929.16

PROPOSED 24' GATE
PRIMARY INGRESS/EGRESS

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Revised Amendments:	




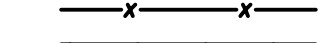

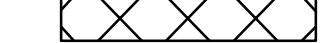

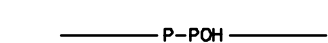
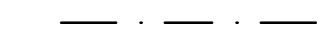
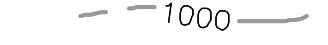

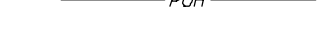

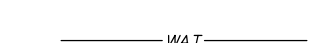
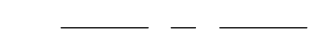
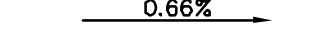

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Drawn:	ETP
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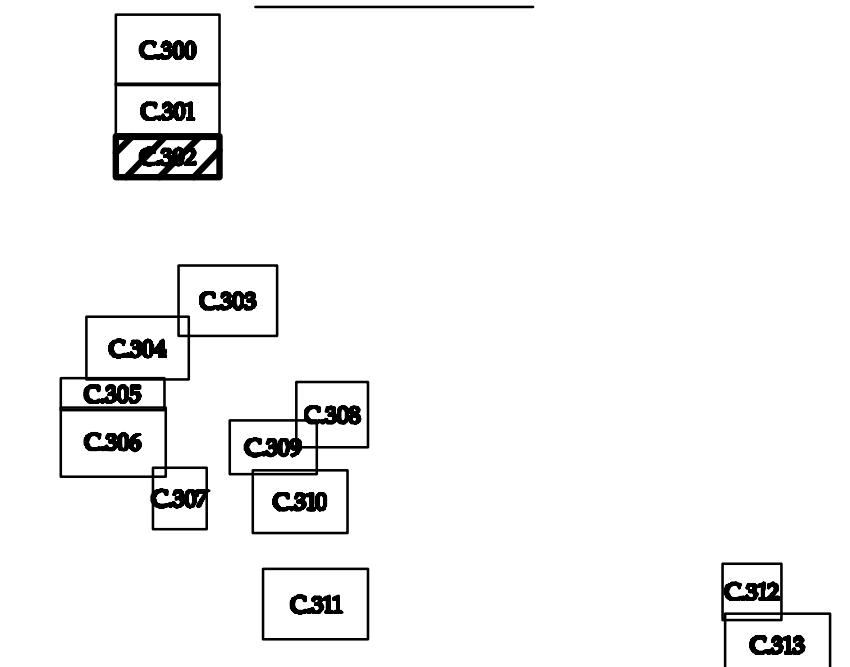
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 Civil Site Plan-2

LEGEND

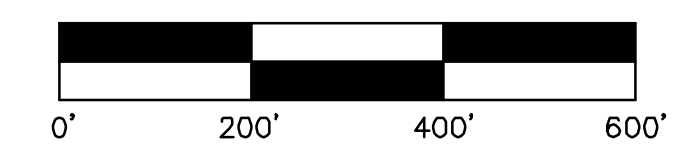
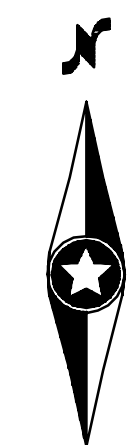
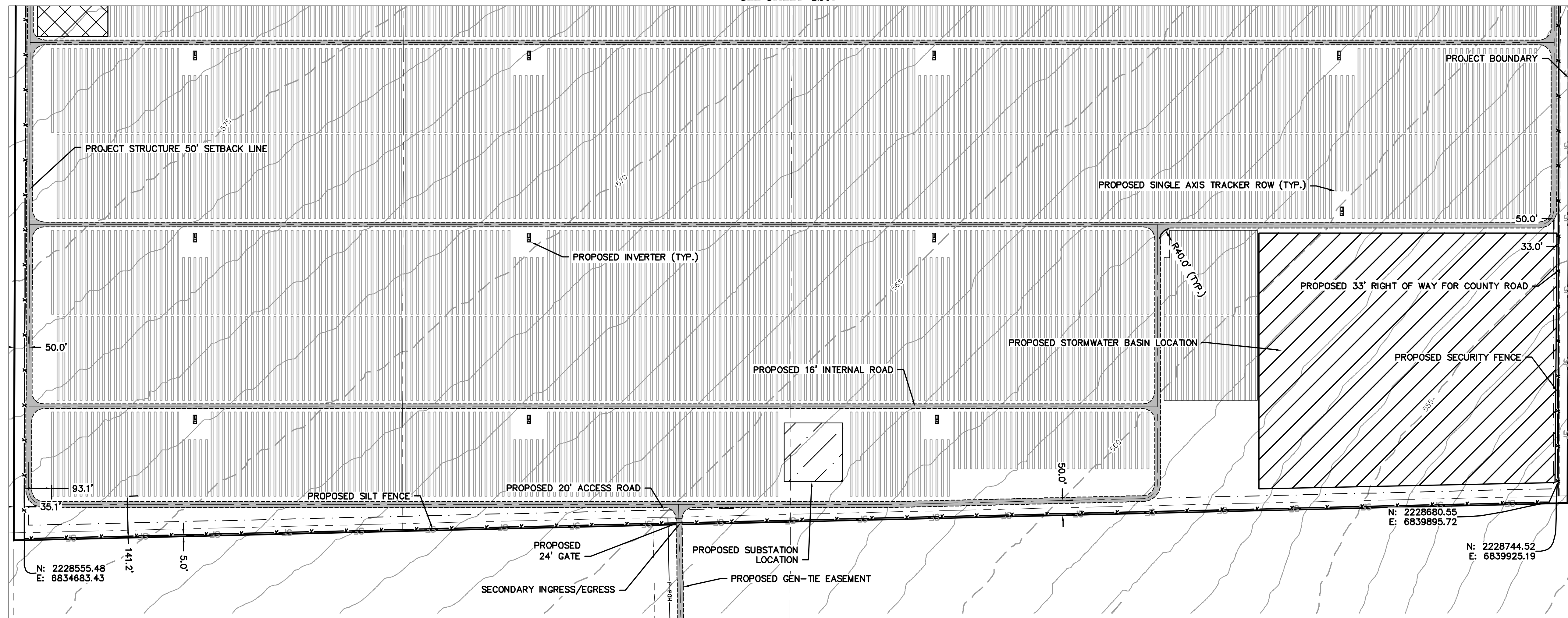
-  PROJECT BOUNDARY/DISTURBANCE LIMITS
-  PROPOSED SOLAR ARRAY
-  PROPOSED ACCESS ROAD
-  PROPOSED SECURITY FENCE
-  POSSIBLE STORMWATER BASIN LOCATION
-  PROPOSED LAYDOWN YARD LOCATION
-  PROPOSED SILT FENCE
-  PROPOSED OVERHEAD POWER LINE
-  PROJECT STRUCTURE SETBACK LINE
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-  EXISTING GROUND SLOPE

- NOTES:**
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 5. THIS PLAN SHOWS THE PROJECT SITE WITH PROPOSED PARCEL MERGERS AND VACATED EASEMENTS.

KEY MAP



SEE SHEET C.301



0013768-SPF01.dwg

Date: 01/15/19 Sheet: C.302

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Revised Amendments:

Designed: **ETP**
 Checked: **ADC**
 Drawn: **ETP**
 Record Drawing by/date: _____

Prepared for:

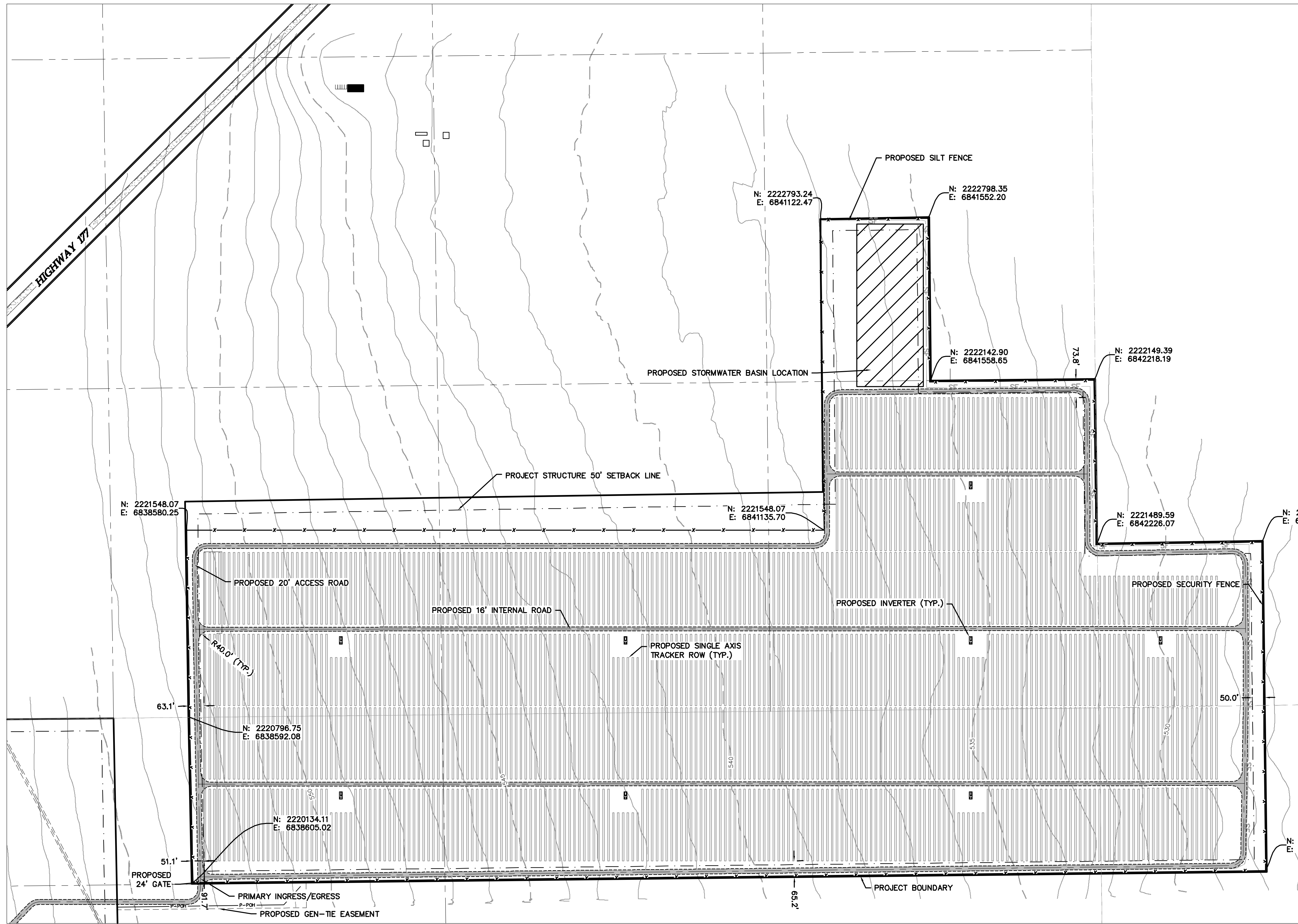
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Athos Solar

Riverside County, CA

Civil Site Plan-3

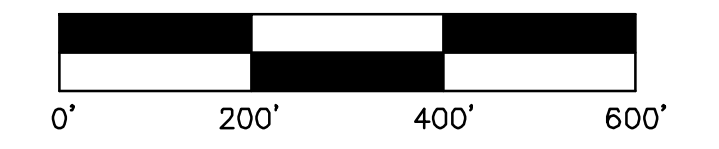
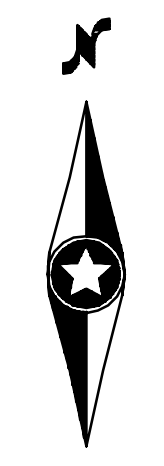
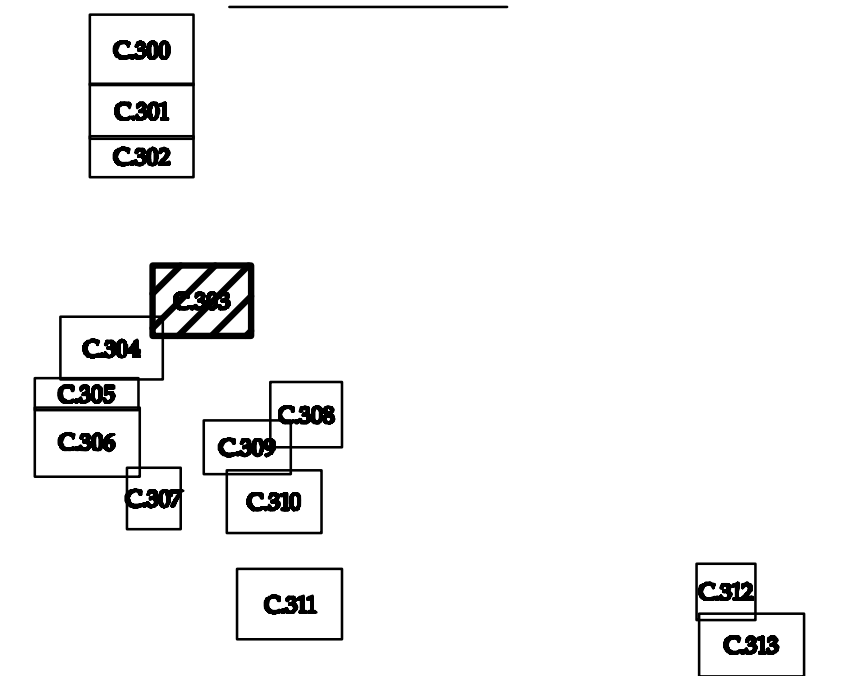


LEGEND

	PROJECT BOUNDARY/DISTURBANCE LIMITS
	PROPOSED SOLAR ARRAY
	PROPOSED ACCESS ROAD
	PROPOSED SECURITY FENCE
	POSSIBLE STORMWATER BASIN LOCATION
	PROPOSED LAYDOWN YARD LOCATION
	PROPOSED SILT FENCE
	PROPOSED OVERHEAD POWER LINE
	PROJECT STRUCTURE SETBACK LINE
	EXISTING 5' CONTOURS
	EXISTING 1' CONTOURS
	EXISTING OVERHEAD POWER LINE
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 - THIS PLAN SHOWS THE PROJECT SITE WITH PROPOSED PARCEL MERGERS AND VACATED EASEMENTS.

KEY MAP



0013768-SPF01.dwg

Date: 01/15/19 Sheet: C.303

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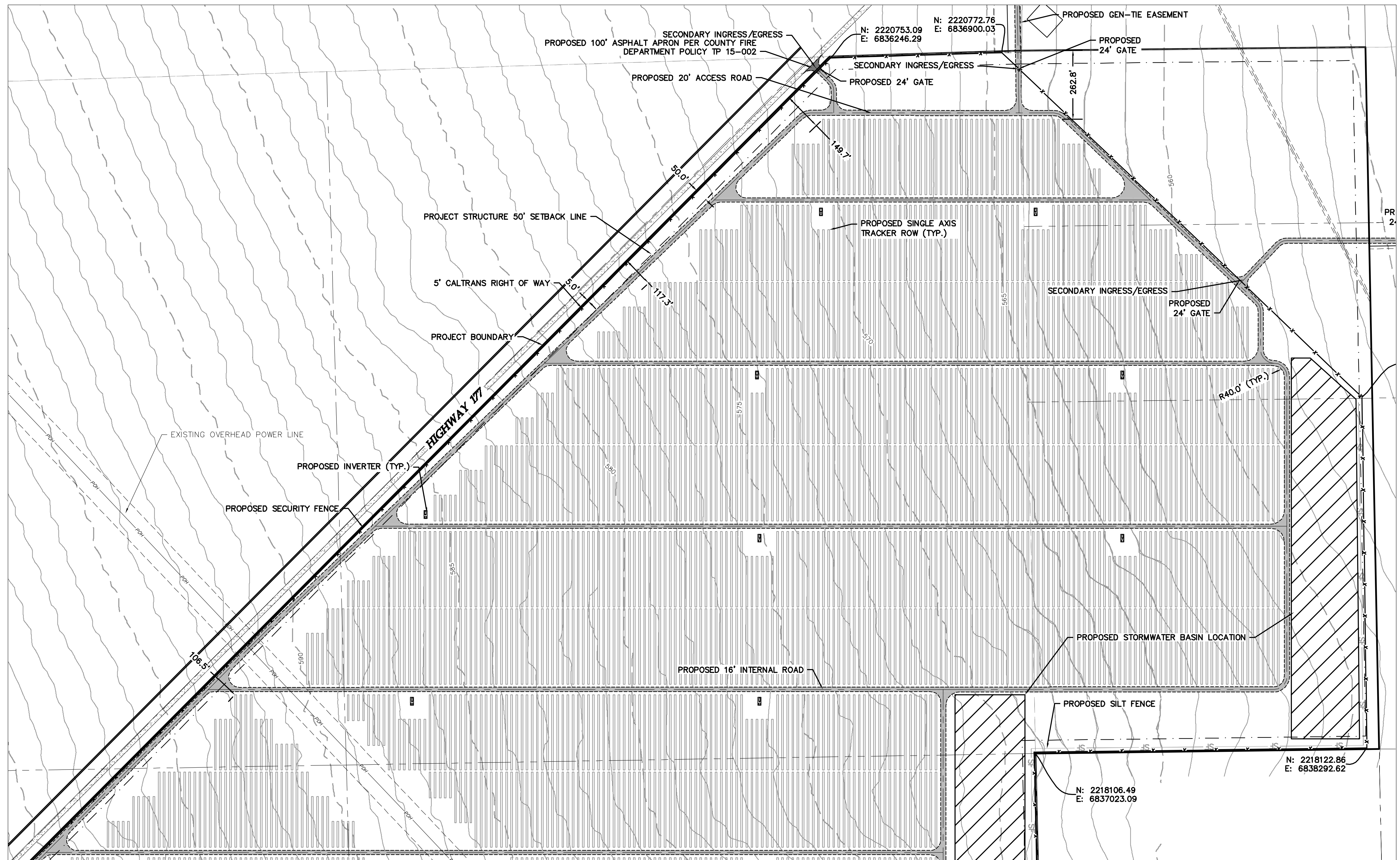
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Amendments:	

Design:	BTB
Checked:	ADC
Drawn:	BTB
Record Drawing by/date:	

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IP Athos, LLC
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Athos Solar
 Riverside County, CA

Civil Site Plan-4

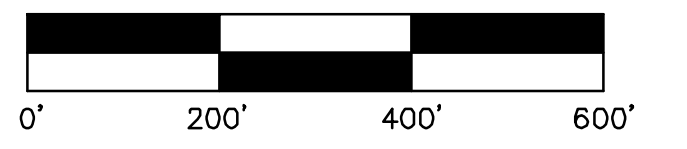
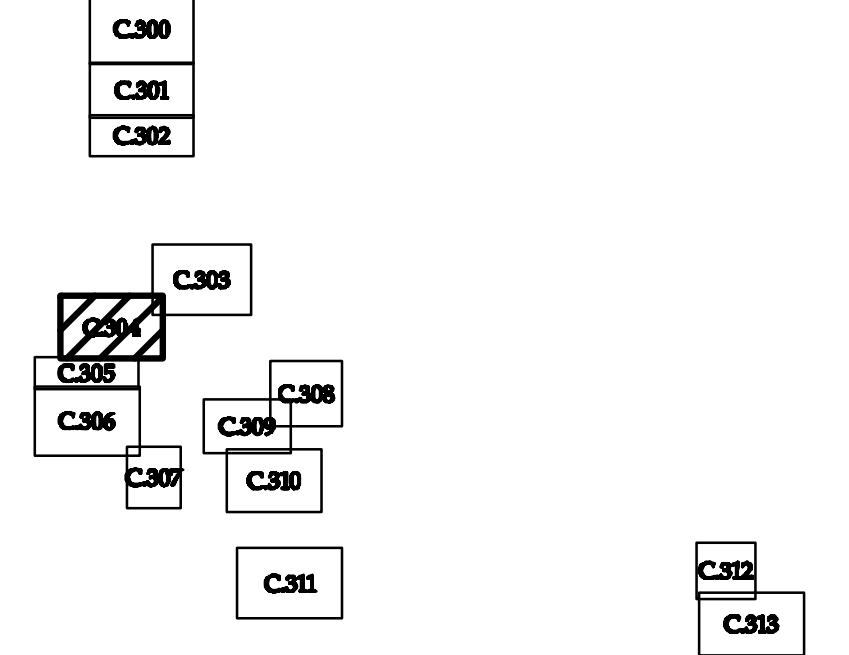


LEGEND

- PROJECT BOUNDARY/DISTURBANCE LIMITS
- PROPOSED SOLAR ARRAY
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- POSSIBLE STORMWATER BASIN LOCATION
- PROPOSED LAYDOWN YARD LOCATION
- PROPOSED SILT FENCE
- PROPOSED OVERHEAD POWER LINE
- PROJECT STRUCTURE SETBACK LINE
- EXISTING 5' CONTOURS
- EXISTING 1' CONTOURS
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 5. THIS PLAN SHOWS THE PROJECT SITE WITH PROPOSED PARCEL MERGERS AND VACATED EASEMENTS.

KEY MAP



SEE SHEET C.305

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Revised Amendments:	Design:	BY
	Checked:	ADC
	Drawn:	BY
	Record Drawing by/date:	

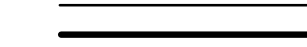


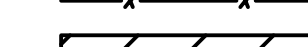

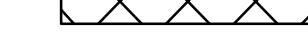

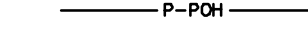
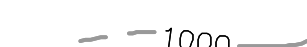

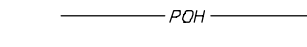


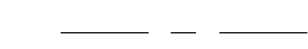
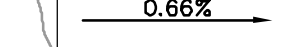


Prepared for:
IP Athos, LLC
 548 MARKET STREET
 SAN FRANCISCO, CA 94104 USA
 (415) 675-1500

Athos Solar
 Riverside County, CA

Date: 01/15/19 Sheet: C.304

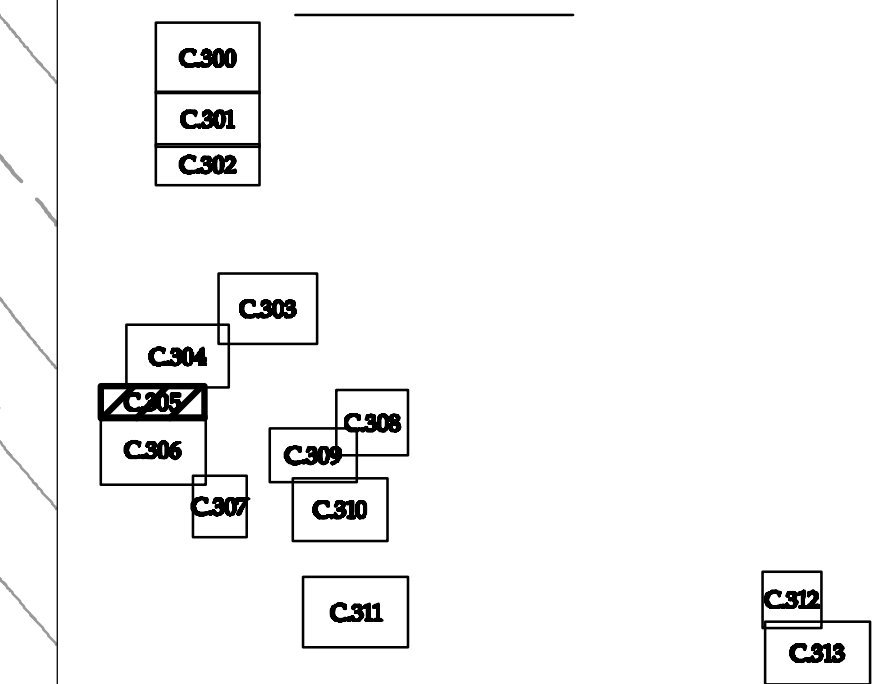
Civil Site Plan-5

LEGEND

-  PROJECT BOUNDARY/DISTURBANCE LIMITS
-  PROPOSED SOLAR ARRAY
-  PROPOSED ACCESS ROAD
-  PROPOSED SECURITY FENCE
-  POSSIBLE STORMWATER BASIN LOCATION
-  PROPOSED LAYDOWN YARD LOCATION
-  PROPOSED SILT FENCE
-  PROPOSED OVERHEAD POWER LINE
-  PROJECT STRUCTURE SETBACK LINE
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-  EXISTING OVERHEAD POWER LINE
-  EXISTING EASEMENT LINE
-  EXISTING RIGHT OF WAY LINE
-  EXISTING WATER LINE
-  EXISTING EASEMENT CENTERLINE
-  EXISTING GROUND SLOPE

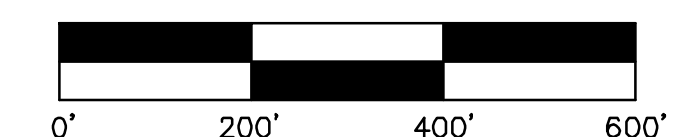
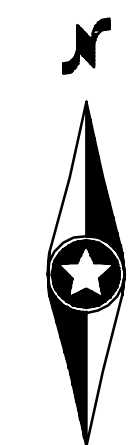
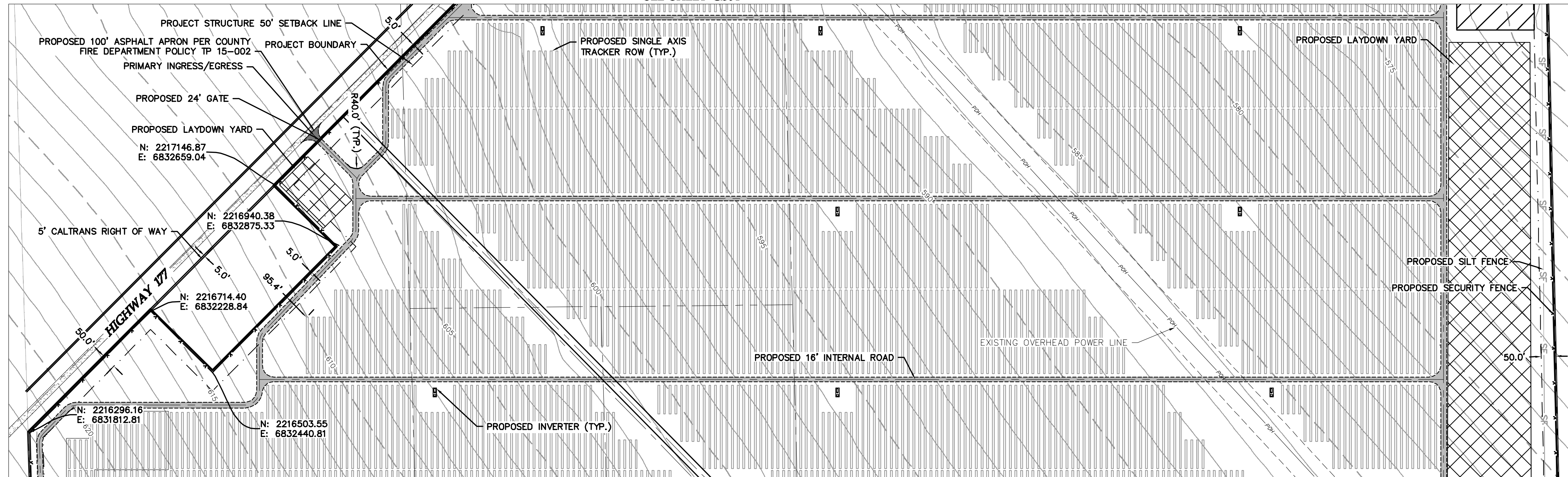
- NOTES:**
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 - 4.1. CORRAL/FARM FENCING WILL BE USED IN LIEU OF CHAINLINK FENCING PENDING PROJECT HYDROLOGY STUDY RESULTS SEE DETAIL FNO3 ON SHEET C.400
 - 4.2. EQUIPMENT FOUNDATIONS MUST BE DESIGNED TO MAINTAIN 1' OF FREEBOARD ABOVE FLOOD DEPTHS.
 5. THIS PLAN SHOWS THE PROJECT SITE WITH PROPOSED PARCEL MERGERS AND VACATED EASEMENTS.

KEY MAP



SEE SHEET C.304

SEE SHEET C.306



0013768-SPF01.dwg

Date: 01/15/19 Sheet: C.305

Athos Solar

Riverside County, CA

Civil Site Plan-6

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Revised Amendments:

Designed: **ETB**
 Checked: **ADC**
 Drawn: **ETB**
 Record Drawing by/date:




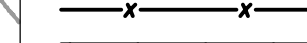
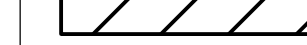


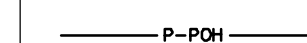
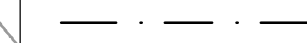
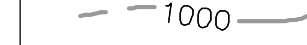



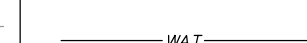
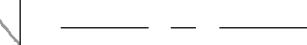
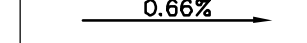
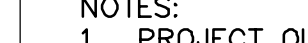
Prepared for:

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 SAN FRANCISCO, CA 94104 USA
 (415) 675-1500

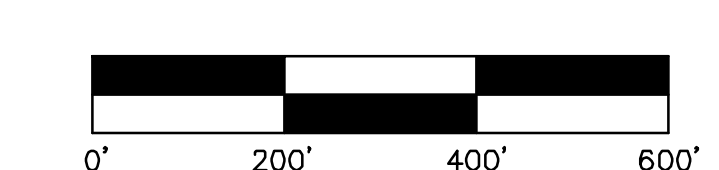
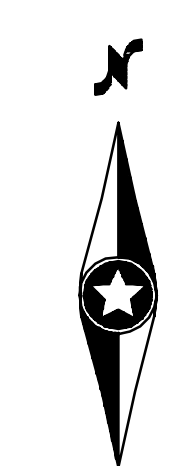
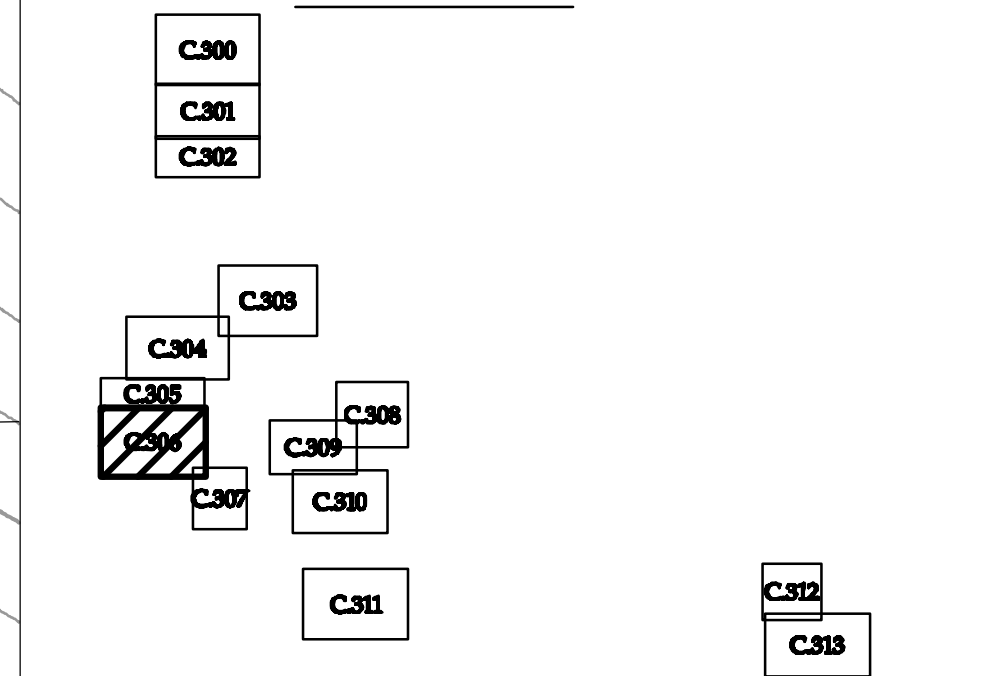
SEE SHEET C305

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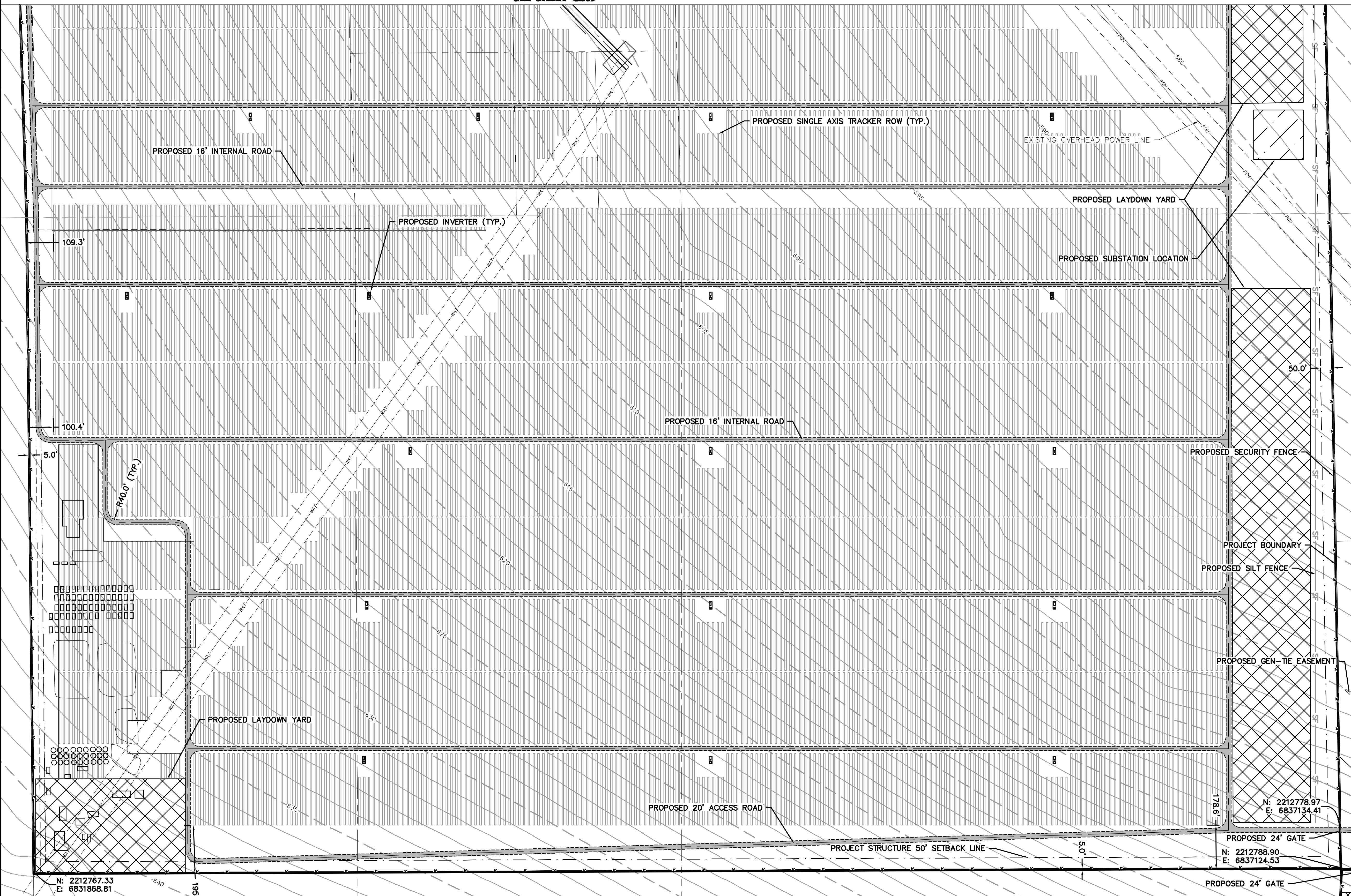
-  PROJECT BOUNDARY/DISTURBANCE LIMITS
-  PROPOSED SOLAR ARRAY
-  PROPOSED ACCESS ROAD
-  PROPOSED SECURITY FENCE
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 5. THIS PLAN SHOWS THE PROJECT SITE WITH PROPOSED PARCEL MERGERS AND VACATED EASEMENTS.

KEY MAP



0013768-SPF01.dwg



N: 2212767.33
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N: 2212778.97
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N: 2212788.90
E: 6837124.53

SEE SHEET C307

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Revised:	Amendments:

Design:	BY
Checked:	ADC
Drawn:	BY
Record Drawing by/date:	

Prepared for:

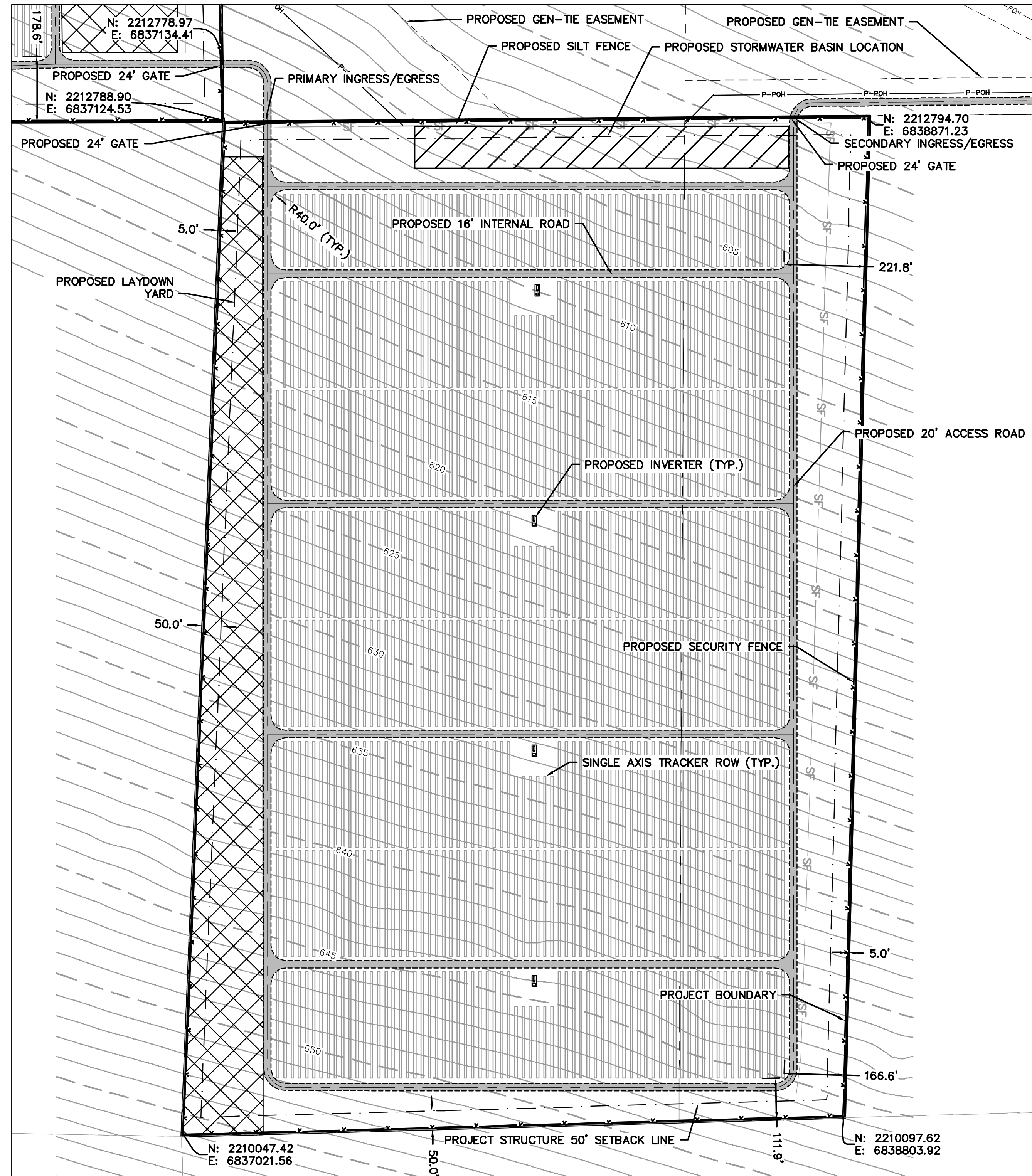
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 Riverside County, CA

Date: 01/15/19 Sheet: C306

Civil Site Plan-7

SEE SHEET C306

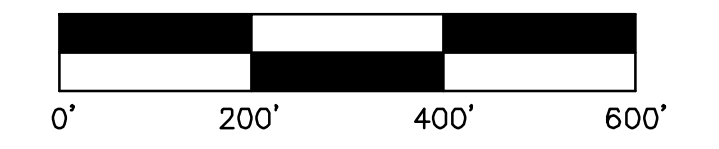
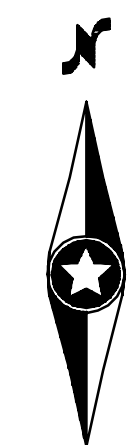
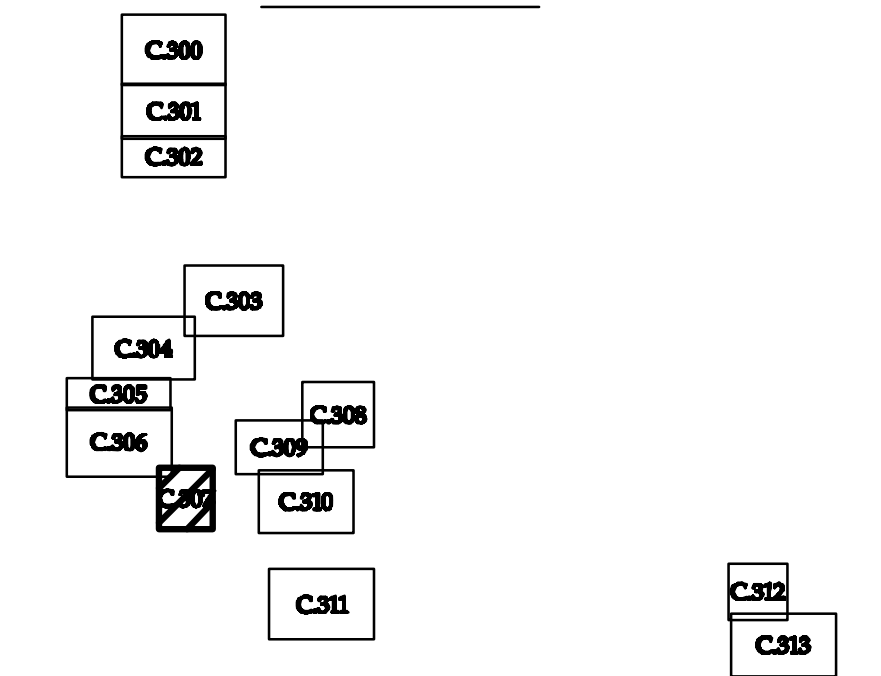


LEGEND

- PROJECT BOUNDARY/DISTURBANCE LIMITS
- PROPOSED SOLAR ARRAY
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KEY MAP



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Date: 01/15/19 Sheet: C307

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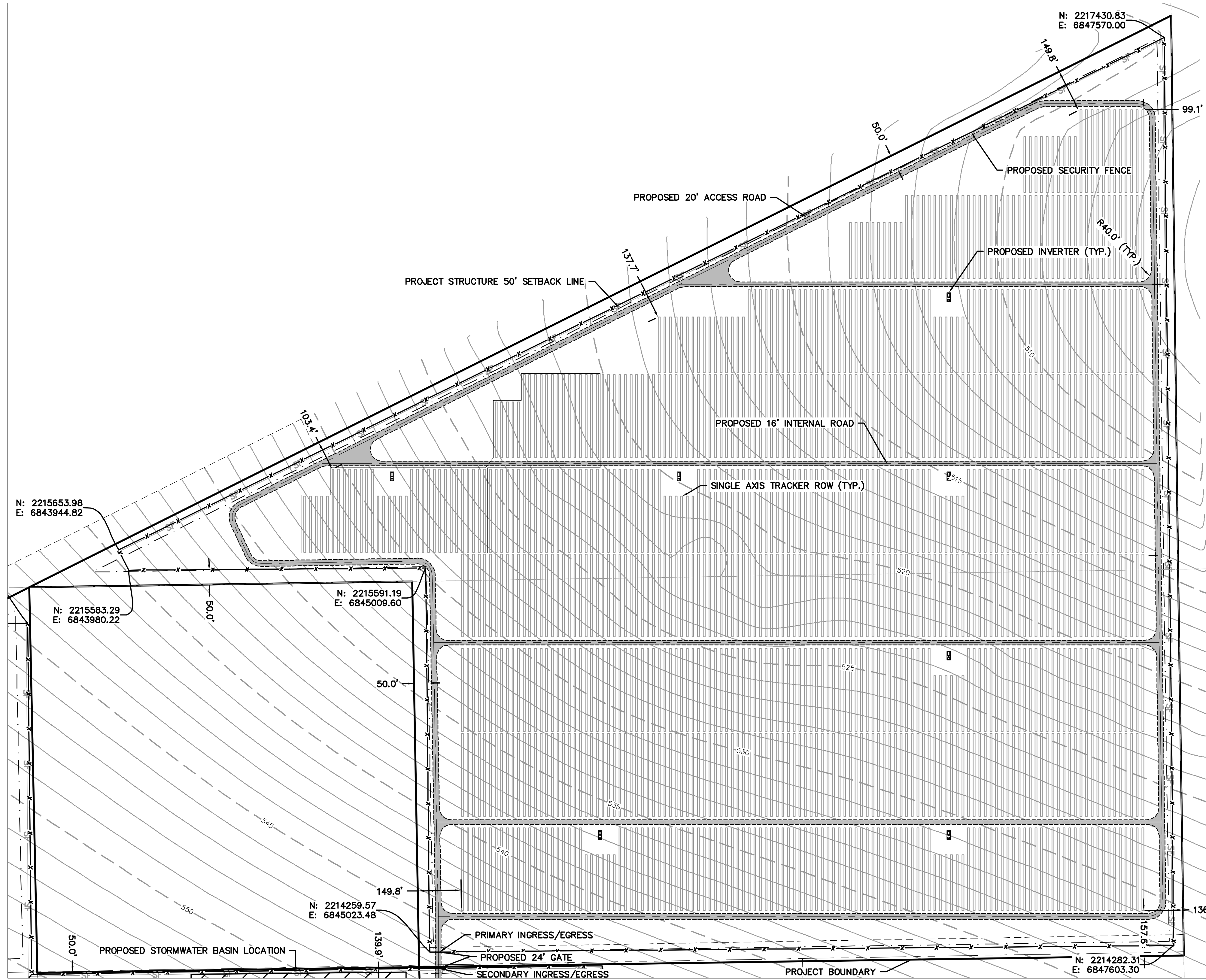
Riverside County, CA

Civil Site Plan-8

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Revised Amendments:	Design: ETB
	Checked: ADC
	Drawn: ETB
	Record Drawing by/date:

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 548 MARKET STREET
 SAN FRANCISCO, CA 94104 USA
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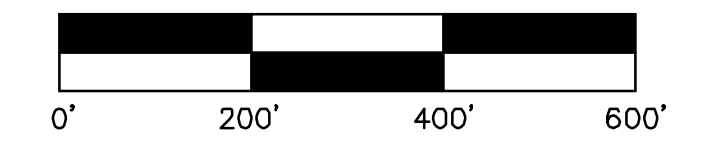
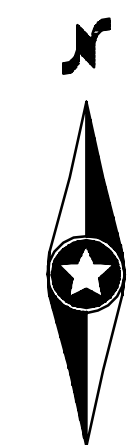
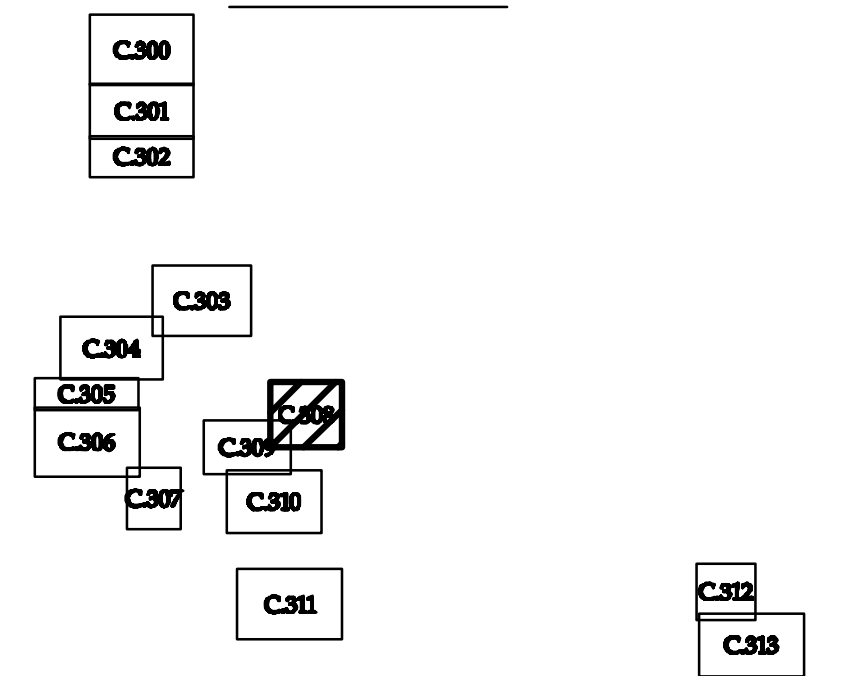


LEGEND

- PROJECT BOUNDARY/DISTURBANCE LIMITS
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 5. THIS PLAN SHOWS THE PROJECT SITE WITH PROPOSED PARCEL MERGERS AND VACATED EASEMENTS.

KEY MAP



SEE SHEET C.309

0013768-SPF01.dwg

Date: 01/15/19 Sheet: C.308

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Revised	Amendment



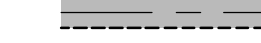
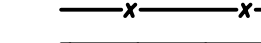




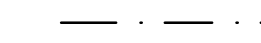




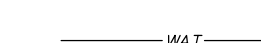

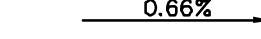

Design:	ETP
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Drawn:	ETP
Record Drawing by/date:	

Prepared for:
IP Athos, LLC
 548 MARKET STREET
 SAN FRANCISCO, CA 94104 USA
 (415) 675-1500

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 Riverside County, CA

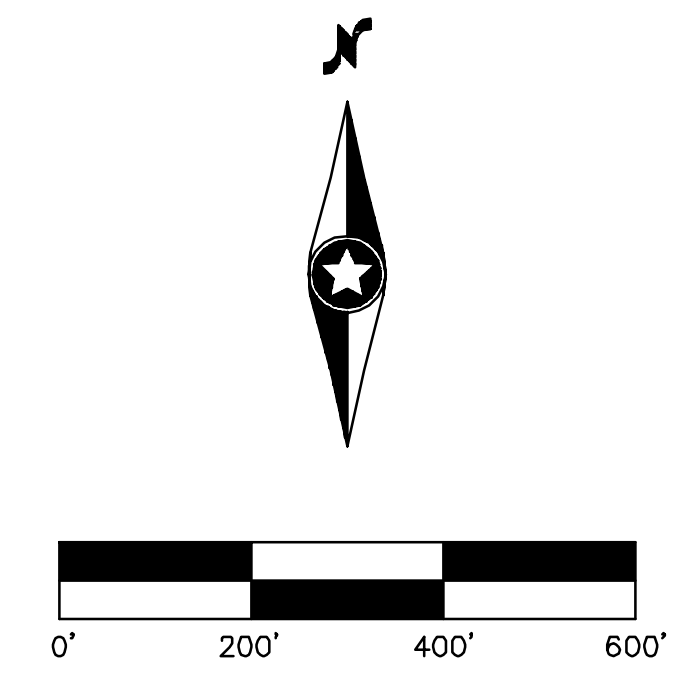
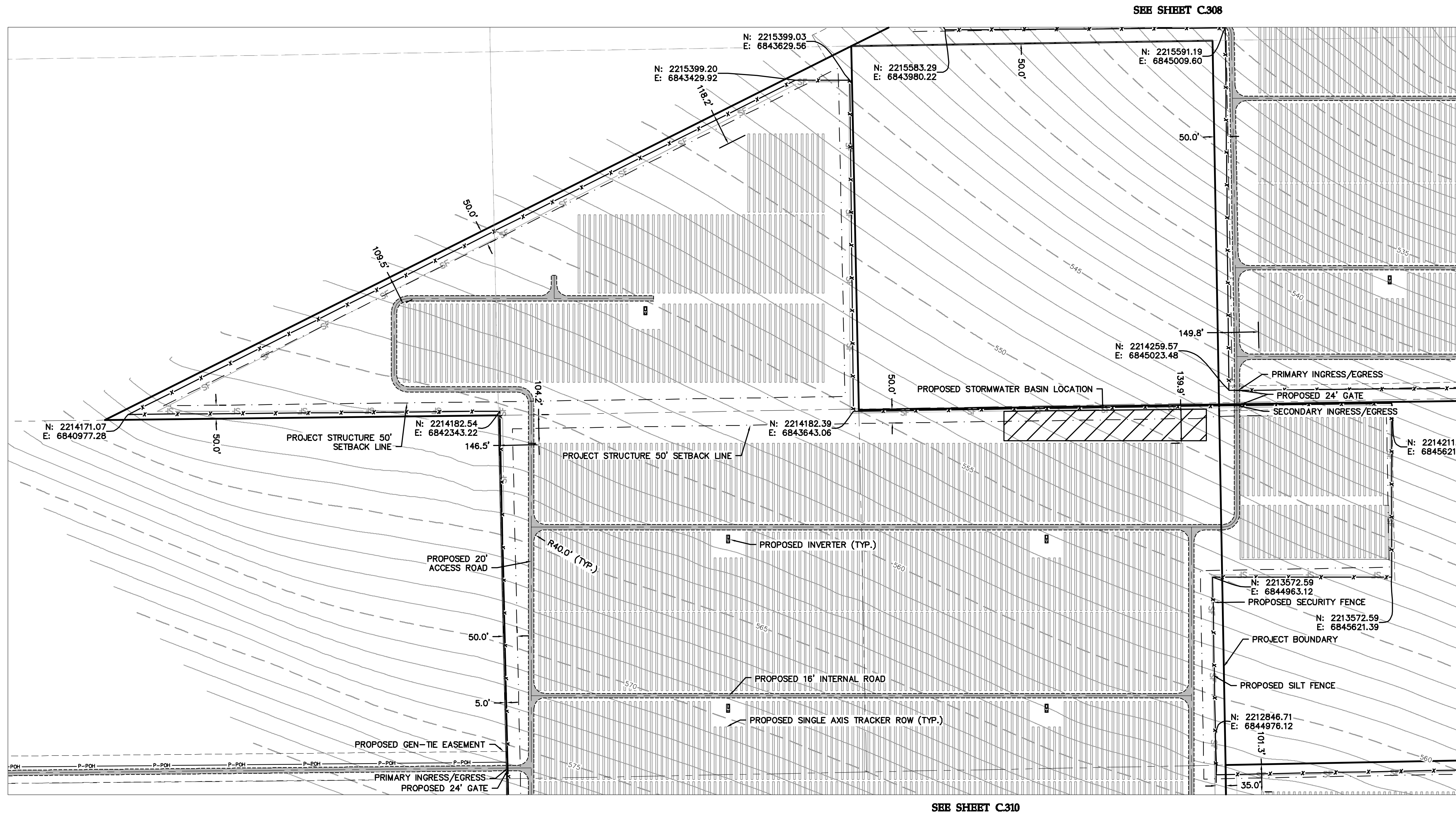
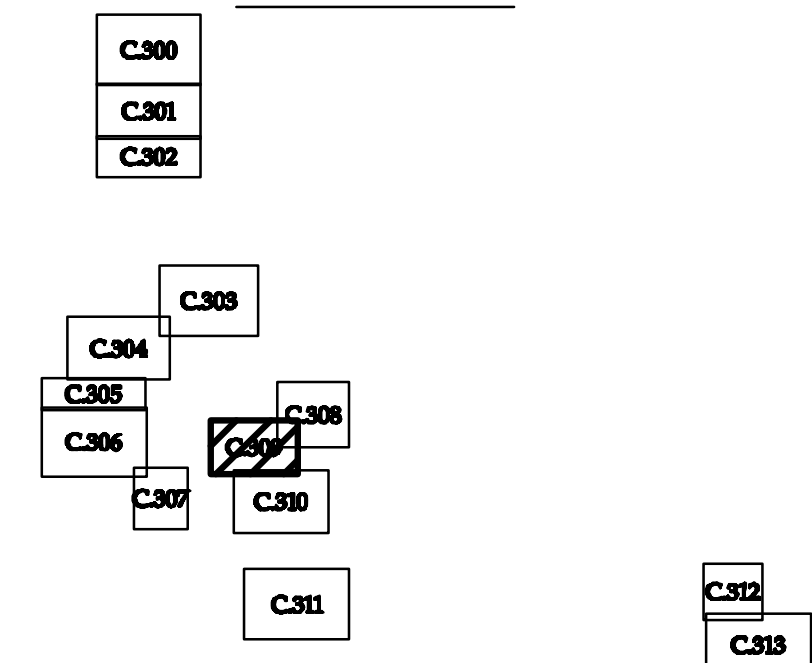
Civil Site Plan-9

LEGEND

-  PROJECT BOUNDARY/DISTURBANCE LIMITS
-  PROPOSED SOLAR ARRAY
-  PROPOSED ACCESS ROAD
-  PROPOSED SECURITY FENCE
-  POSSIBLE STORMWATER BASIN LOCATION
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KEY MAP



0013768-SPF01.dwg

Date: 01/15/19 Sheet: C.309

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Revised Amendments:

Design: **BTB**
 Check: **ADC**
 Draw: **BTB**
 Record Drawing by/date:

Prepared for:

IP Athos, LLC




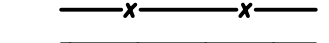

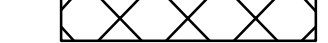

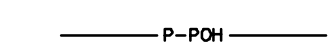
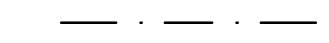
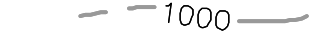

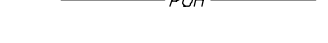

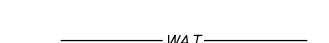
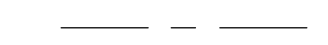
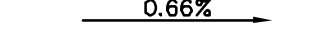

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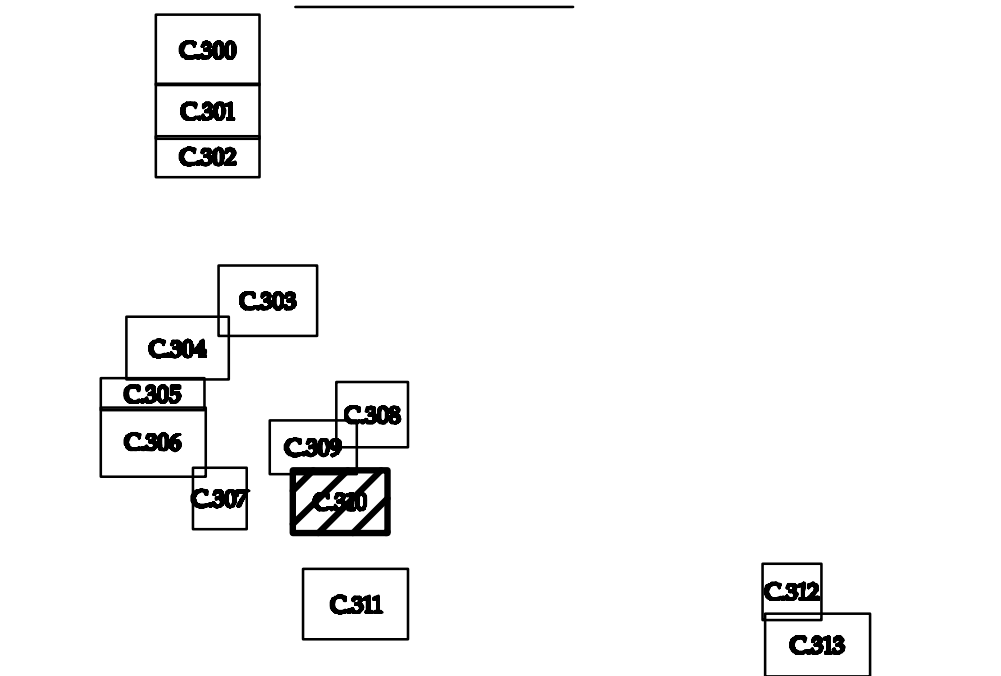
Civil Site Plan-10

LEGEND

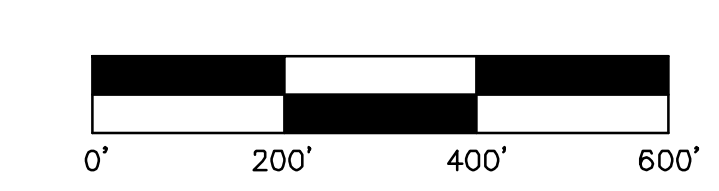
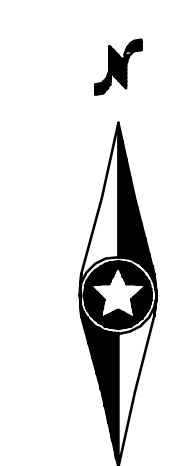
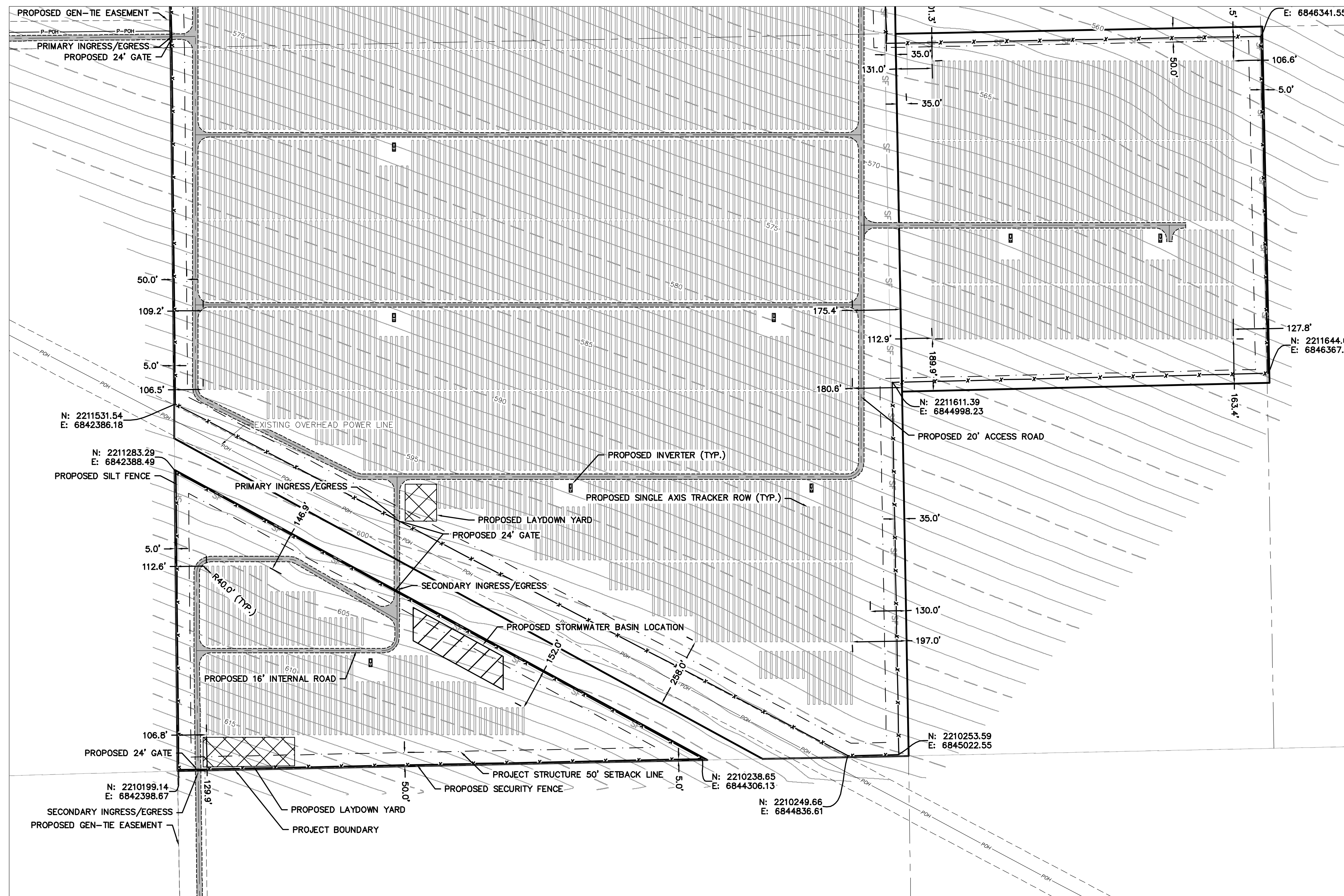
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-  PROPOSED LAYDOWN YARD LOCATION
-  PROPOSED SILT FENCE
-  PROPOSED OVERHEAD POWER LINE
-  PROJECT STRUCTURE SETBACK LINE
-  EXISTING 5' CONTOURS
-  EXISTING 1' CONTOURS
-  EXISTING OVERHEAD POWER LINE
-  EXISTING EASEMENT LINE
-  EXISTING RIGHT OF WAY LINE
-  EXISTING WATER LINE
-  EXISTING EASEMENT CENTERLINE
-  EXISTING GROUND SLOPE

- NOTES:**
1. PROJECT QUANTITIES SHOWN ON PLAN SET ARE PRELIMINARY AND ARE MEANT FOR GENERAL DISCUSSION AND GENERAL PRICING PURPOSES.
 2. DESIGN ASSUMPTIONS:
 - 2.1. MAX SLOPE: 10%
 - 2.2. INTERIOR ROAD WIDTH: 16 FT.
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 3. FINAL GRADING DESIGN TO BE COMPLETED PRIOR TO CONSTRUCTION WITH THE INTENTION OF CUT AND FILL QUANTITIES BALANCING.
 4. FLOOD STUDY IS BEING PREPARED, PLAN AND CIVIL DESIGN MAY CHANGE ACCORDINGLY.
 - 4.1. CORRAL/FARM FENCING WILL BE USED IN LIEU OF CHAINLINK FENCING PENDING PROJECT HYDROLOGY STUDY RESULTS SEE DETAIL FNO3 ON SHEET C.400
 - 4.2. EQUIPMENT FOUNDATIONS MUST BE DESIGNED TO MAINTAIN 1' OF FREEBOARD ABOVE FLOOD DEPTHS.
 5. THIS PLAN SHOWS THE PROJECT SITE WITH PROPOSED PARCEL MERGERS AND VACATED EASEMENTS.

KEY MAP



SEE SHEET C.311



0013768-SPF01.dwg

Date: 01/15/19 Sheet: C.310

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Revised Amendments:	Designated: RTB
	Checked: ADC
	Drawn: RTB
	Record Drawing by/date:

Prepared for:

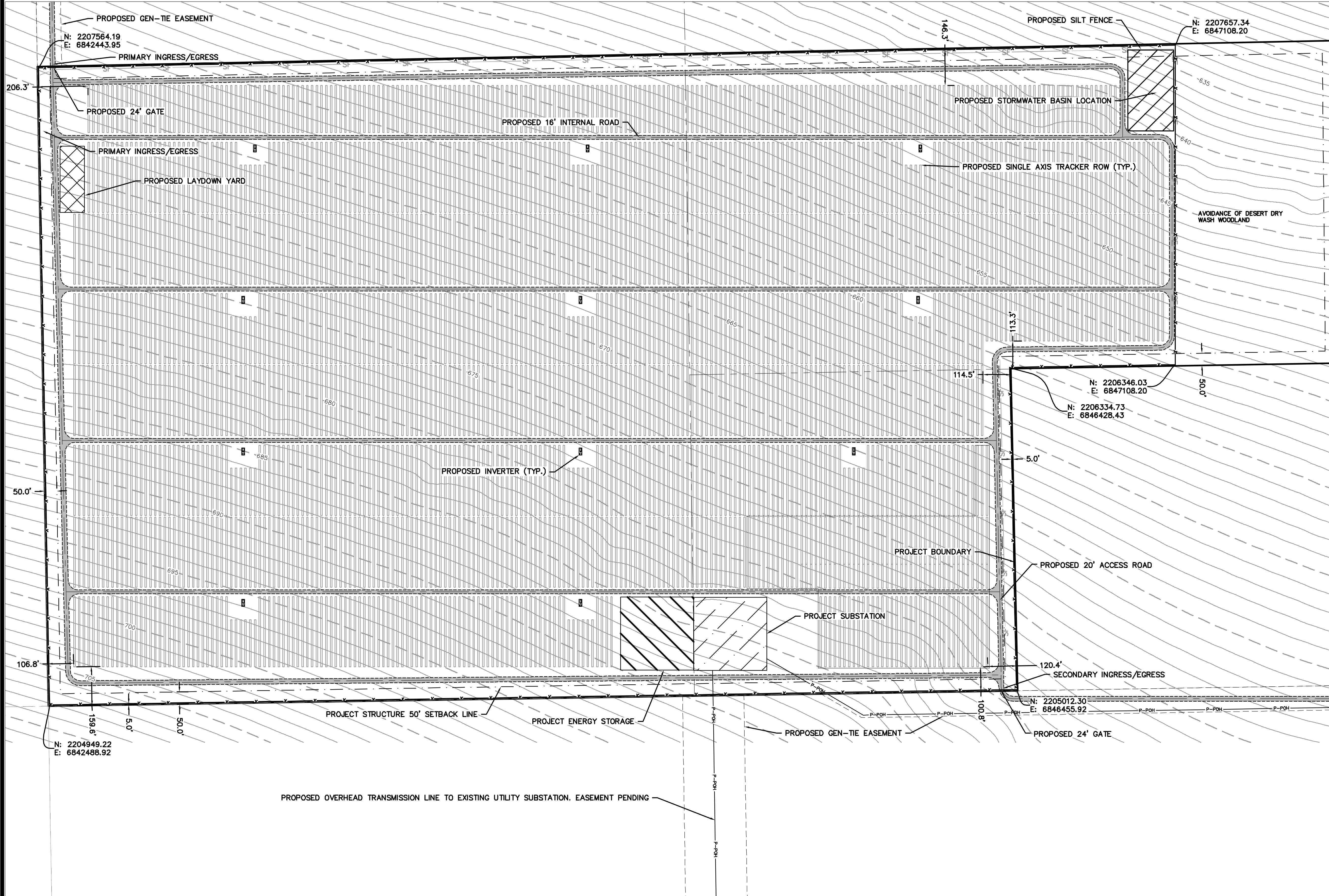
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Athos Solar

Riverside County, CA

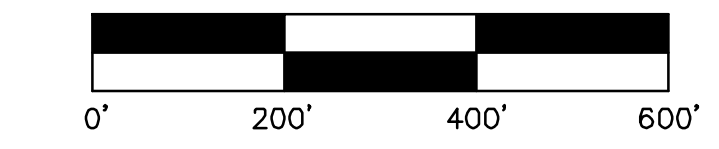
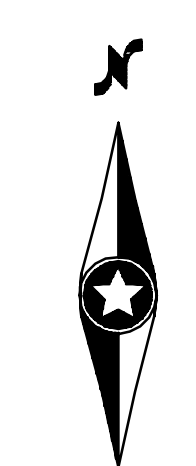
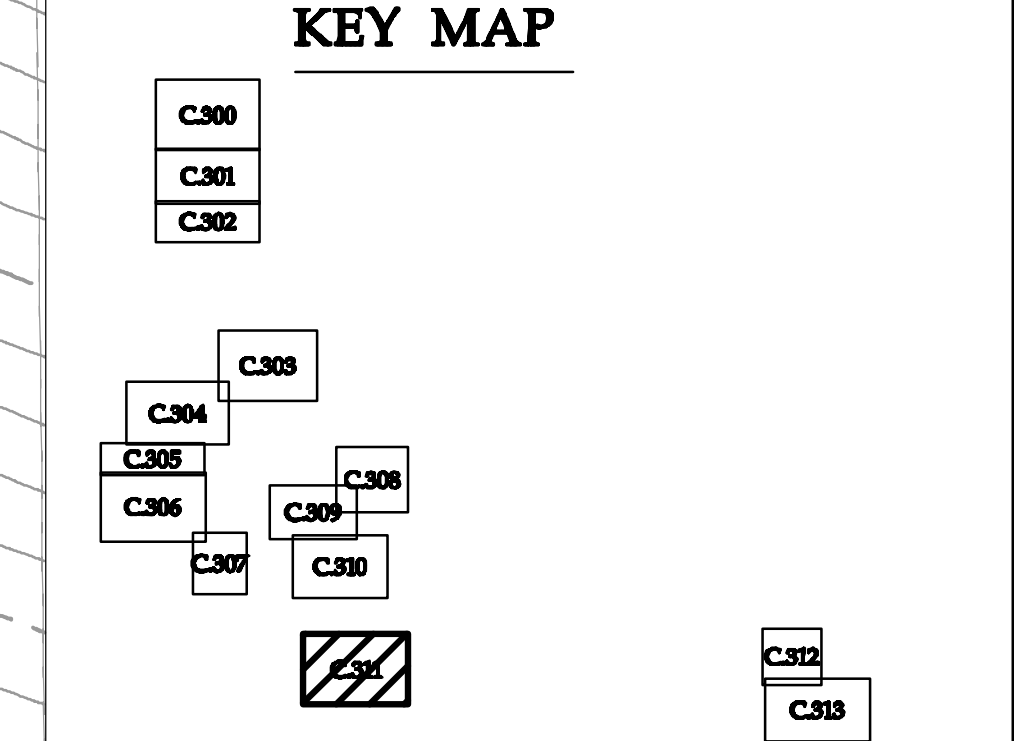
Civil Site Plan-11



LEGEND

- PROJECT BOUNDARY/DISTURBANCE LIMITS
- PROPOSED SOLAR ARRAY
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- POSSIBLE STORMWATER BASIN LOCATION
- PROPOSED LAYDOWN YARD LOCATION
- PROPOSED SILT FENCE
- PROPOSED OVERHEAD POWER LINE
- PROJECT STRUCTURE SETBACK LINE
- EXISTING 5' CONTOURS
- EXISTING 1' CONTOURS
- EXISTING OVERHEAD POWER LINE
- EXISTING EASEMENT LINE
- EXISTING RIGHT OF WAY LINE
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0013768-SPF01.dwg

Date: 01/15/19 Sheet: C.311

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Revised	Amendment




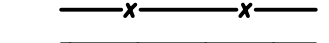

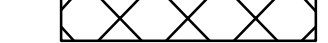

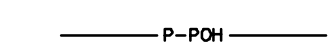
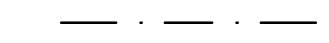
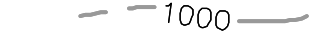

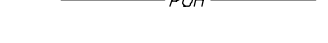

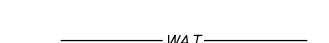
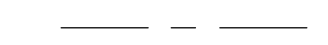
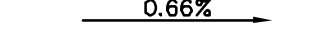

Design:	BTB
Check:	ADC
Draw:	BTB
Record Drawing by/date:	

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 Riverside County, CA

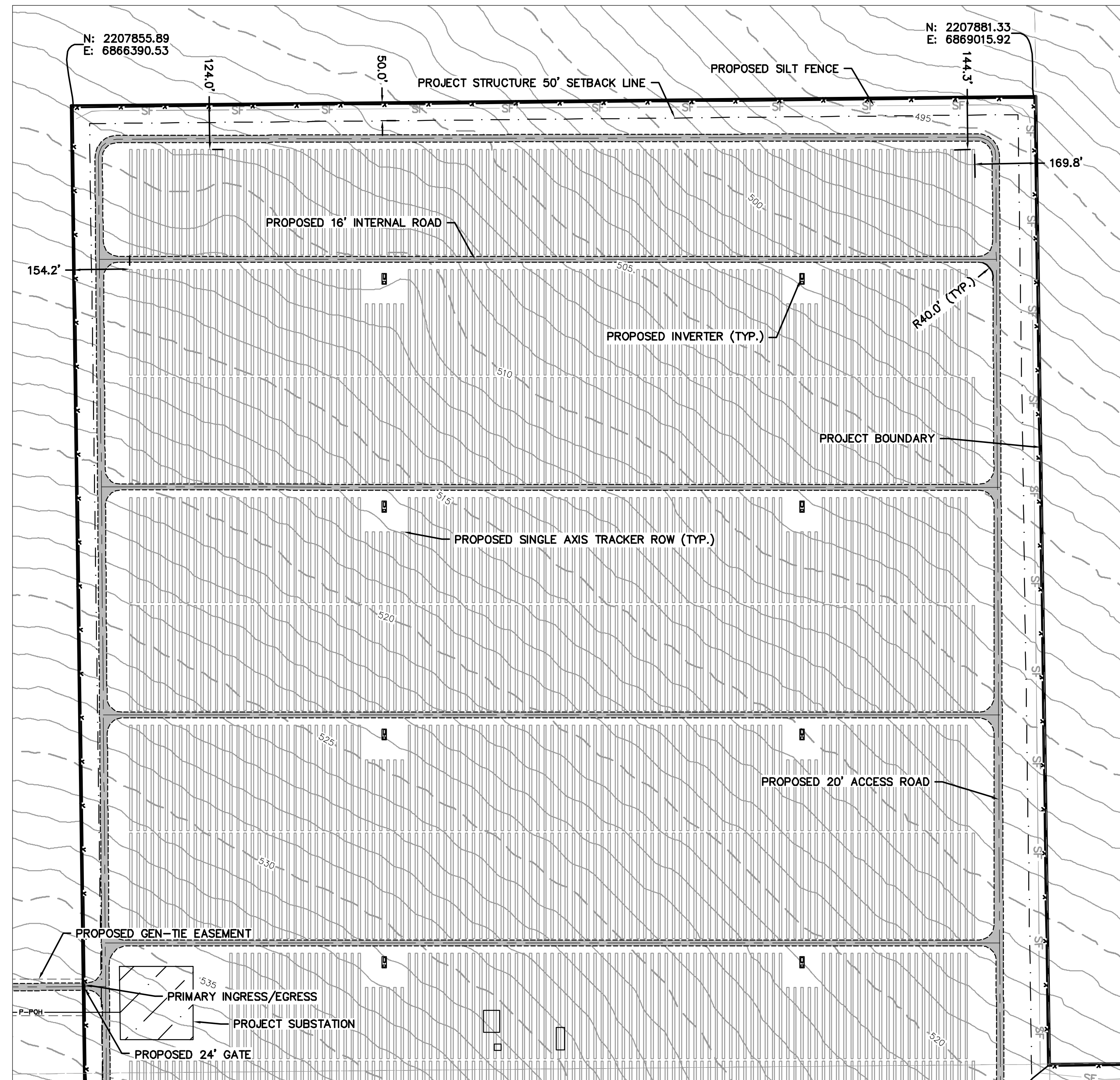
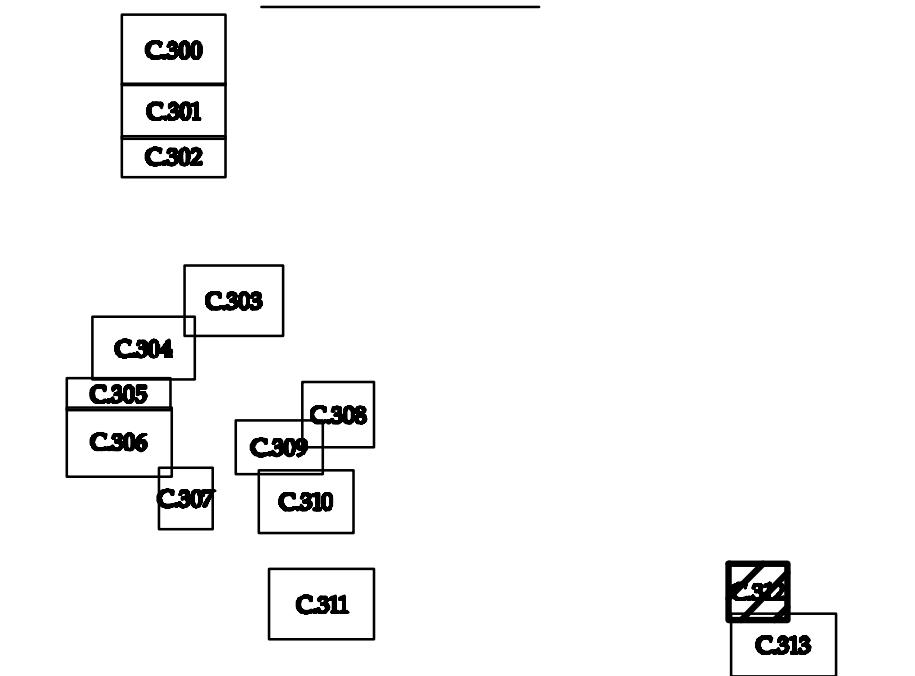
Civil Site Plan-12

LEGEND

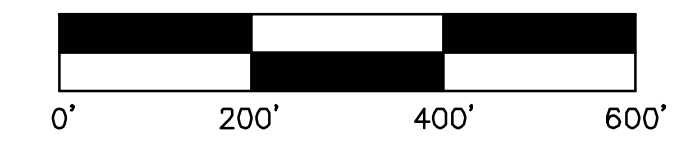
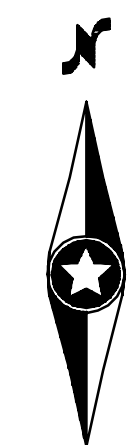
-  PROJECT BOUNDARY/DISTURBANCE LIMITS
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KEY MAP



SEE SHEET C313



0013768-SPF01.dwg

Date: 01/15/19 Sheet: C.312

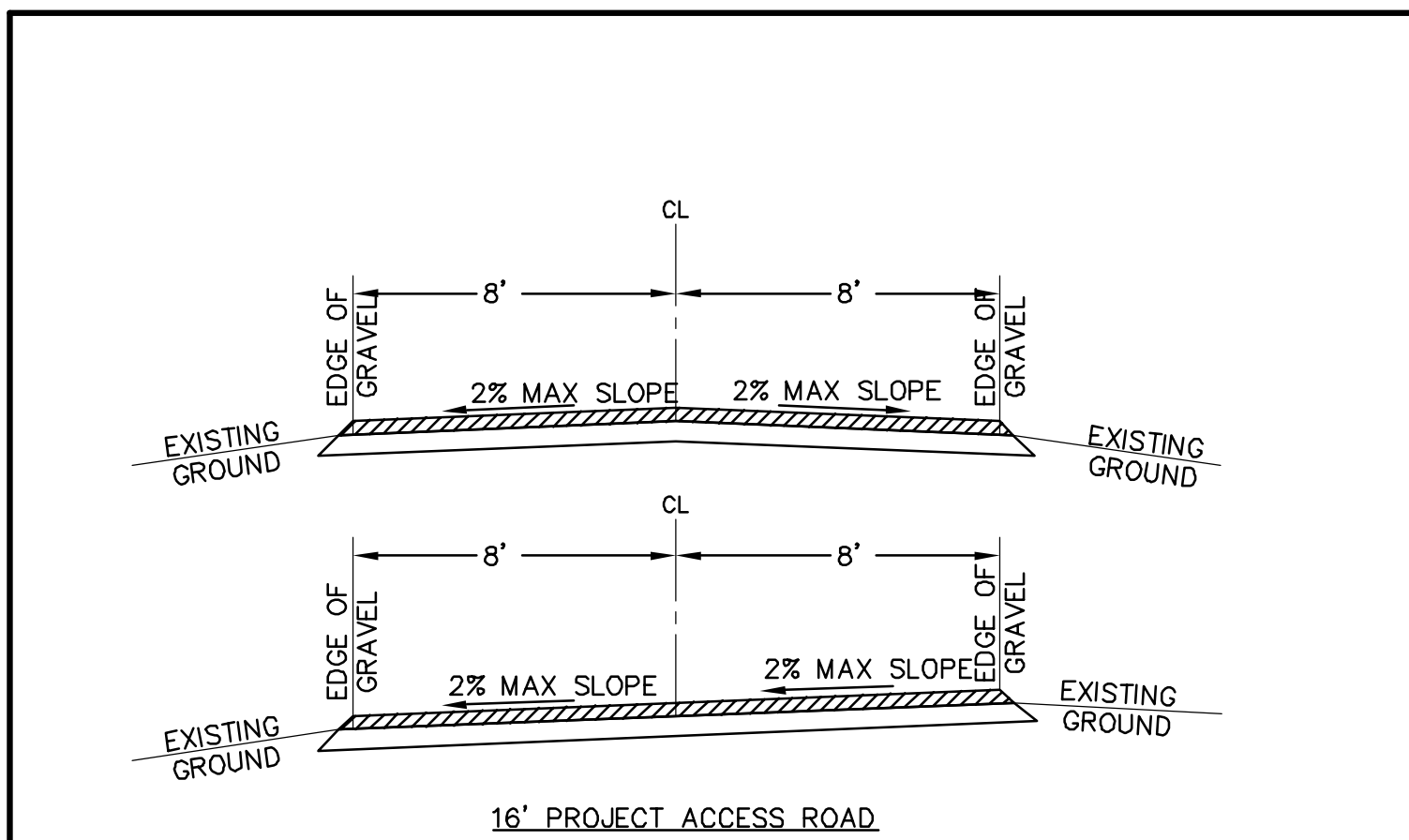
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Revised Amendments:	Design: EFB
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	Record Drawing by/date:

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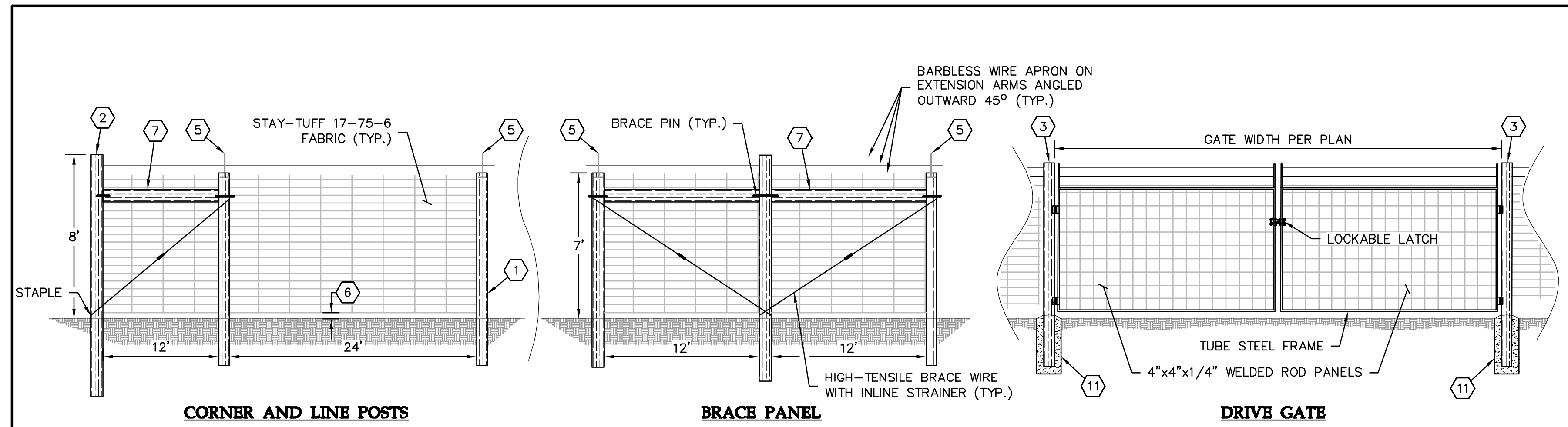
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 Riverside County, CA

Civil Site Plan-13



- NOTES:**
1. CONTRACTOR SHALL CONSTRUCT CROSS-SLOPE ROAD SECTION WHERE ACCESS ROADS ARE CONSTRUCTED ON A SIDE SLOPE, AND WHERE OTHERWISE NOTED ON PLANS, TO ENSURE THAT ROADS AND SHOULDERS REMAIN WELL DRAINED AT ALL TIMES.
 2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ACROSS ACCESS ROADS

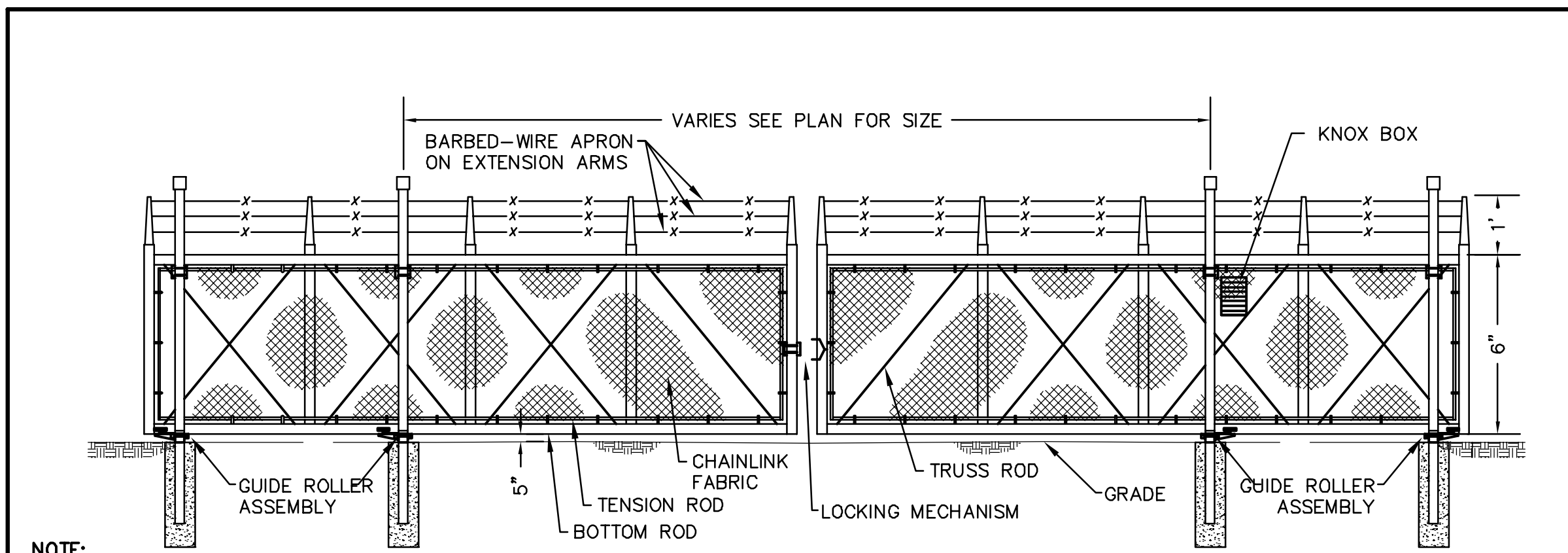
TYPICAL SOLAR ACCESS ROAD LAST REVISED: 07/15/13 RD01



- NOTE:**
 FENCING SUPPLIER SHALL PROVIDE FINAL AND SEALED FENCING DRAWINGS WITH MATERIAL AND SPECIFICATION REQUIREMENTS.

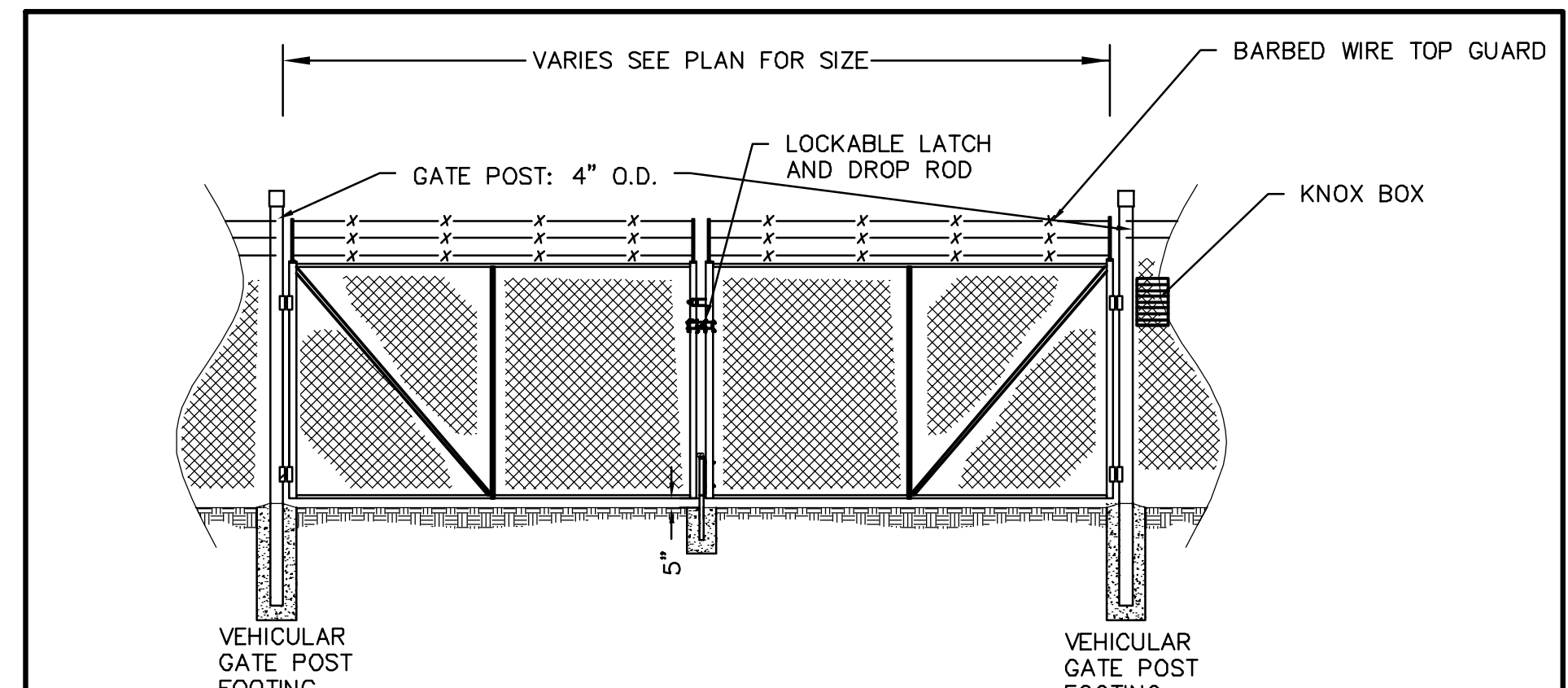
AGRICULTURAL SECURITY FENCE DETAIL (NOT TO SCALE) FN03

FENCING KEY NOTES	
1	LINE POST
2	CORNER POST
3	GATE POST
4	CHAIN LINK FABRIC
5	BARBED WIRE ARM
6	SPACE AT FENCE BOTTOM
7	TOP SUPPORT
8	BOTTOM SUPPORT
9	LINE POST FOUNDATION
10	CORNER POST FOUNDATION
11	GATE POST FOUNDATION



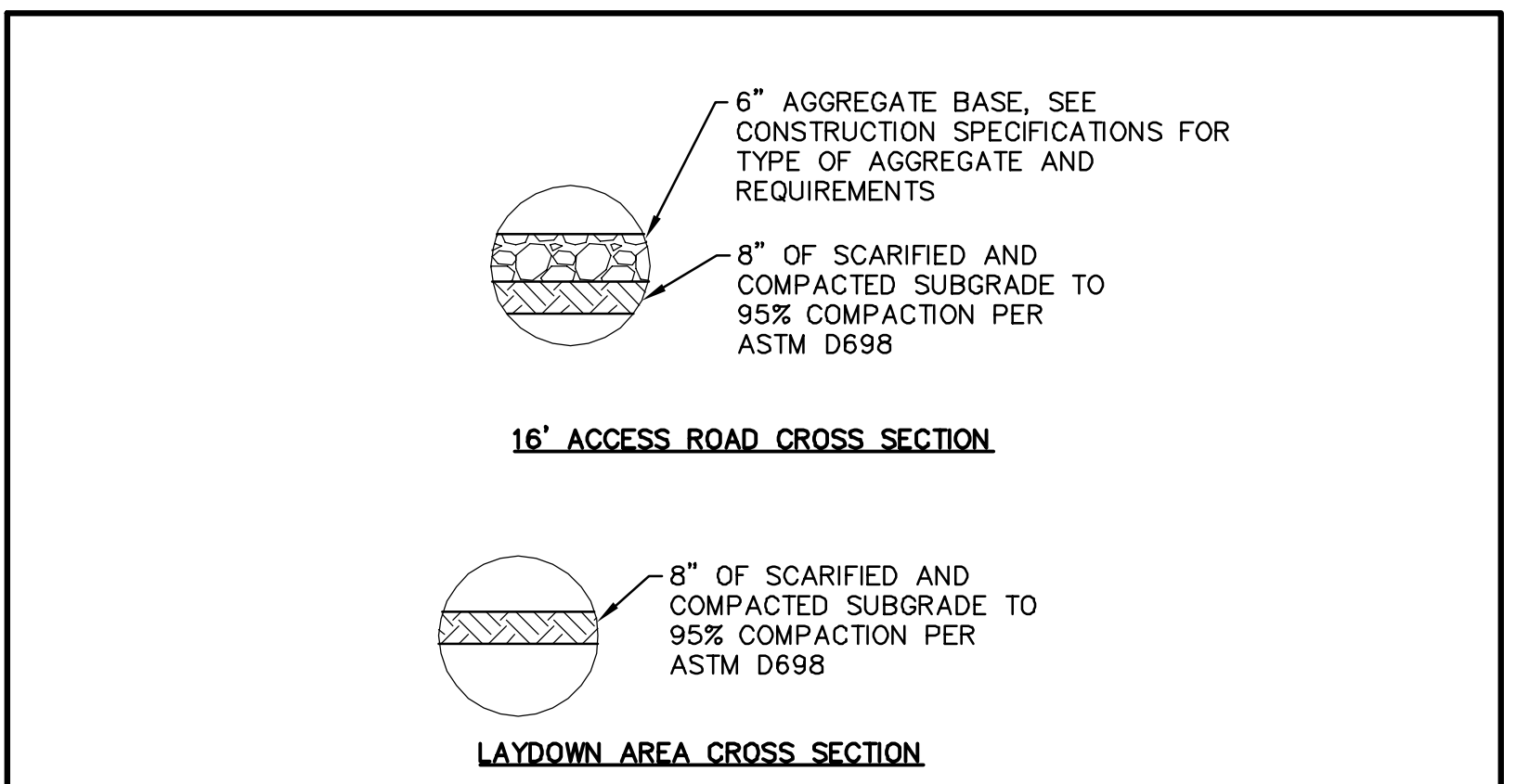
- NOTE:**
1. FENCE AND GATE TYPE TO BE APPROVED BY OWNER PRIOR TO CONSTRUCTION
 2. STRUCTURAL DESIGN TO BE PROVIDED BY FENCE SUPPLIER
 3. DIMENSIONS AND INFORMATION SHOWN ABOVE ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS AND INFORMATION TO BE PROVIDED BY MANUFACTURER/SUPPLIER.
 4. A KNOX BOX SHALL BE INSTALLED WITHIN 3' FROM THE GATE POST ON THE ADJACENT FENCE FOR EACH GATE

CHAIN-LINK SECURITY LEAF GATE LAST REVISED: 07/16/13 FN02



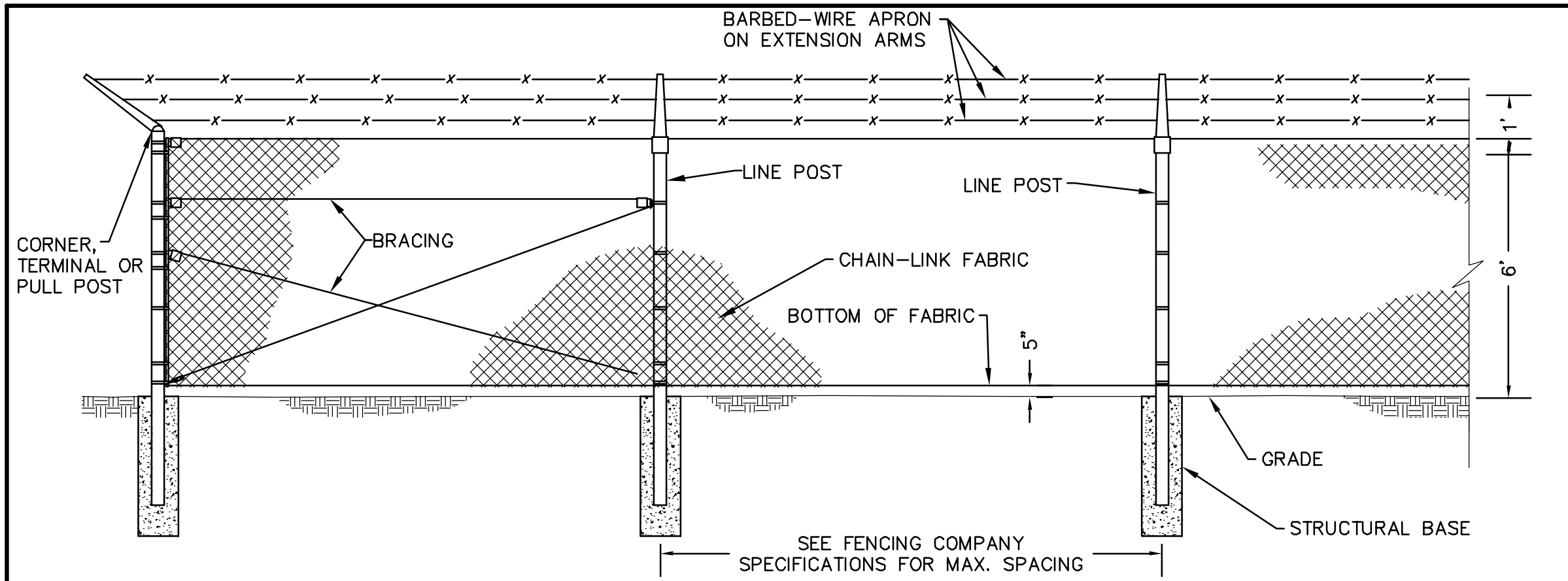
- NOTE:**
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 2. STRUCTURAL DESIGN TO BE PROVIDED BY FENCE SUPPLIER
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CHAIN-LINK SECURITY SWING GATE LAST REVISED: 12/18/14 FN05



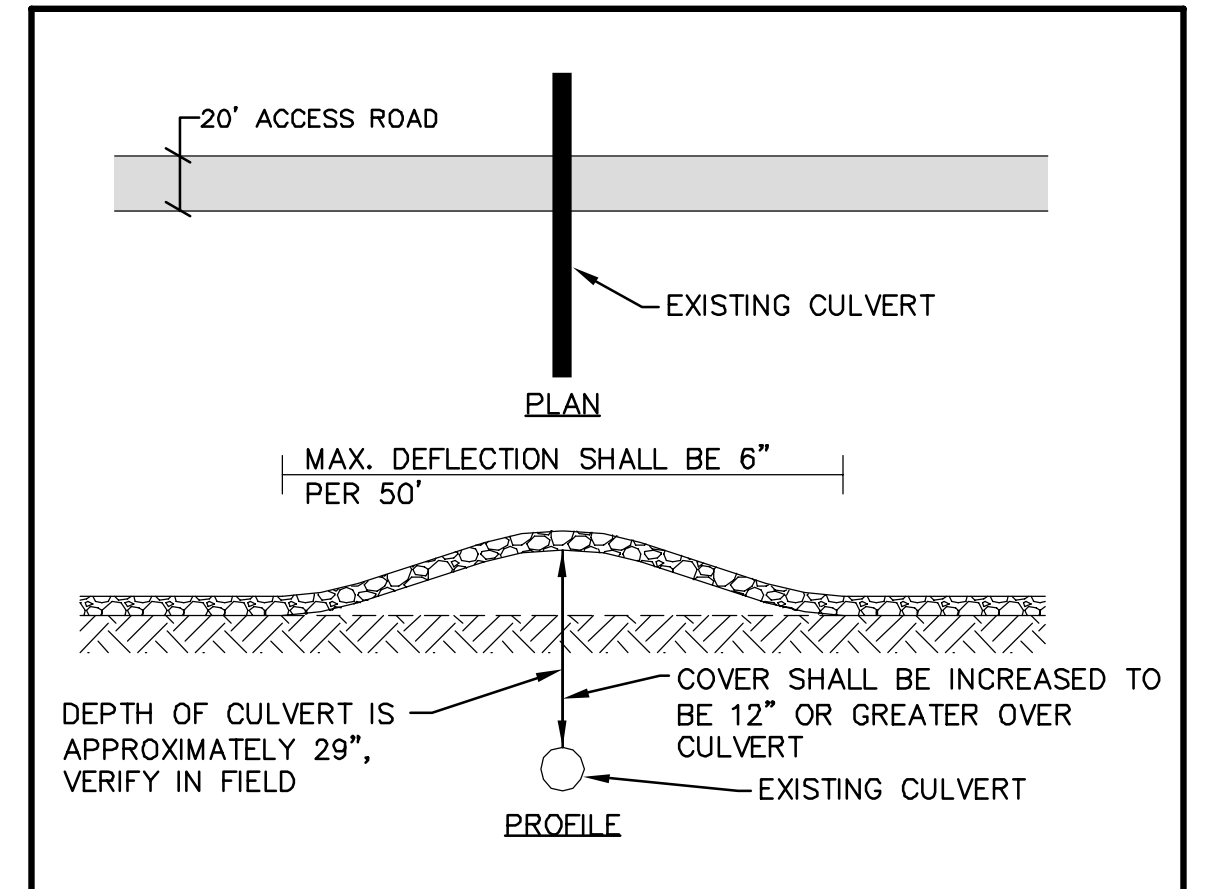
- NOTE:**
 STRUCTURAL SECTIONS SHOWN ARE THE MINIMUM THICKNESS REQUIREMENTS DURING NORMAL FIELD CONDITIONS. THE SECTIONS MAY NEED TO BE INCREASED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. CONDITIONS INCLUDE BUT ARE NOT LIMITED TO CONSTRUCTION DURING UNUSUALLY WET PERIODS, OR IN LOW/WET AREAS.

TYPICAL STRUCTURAL CROSS SECTIONS LAST REVISED: 07/15/13 RD02



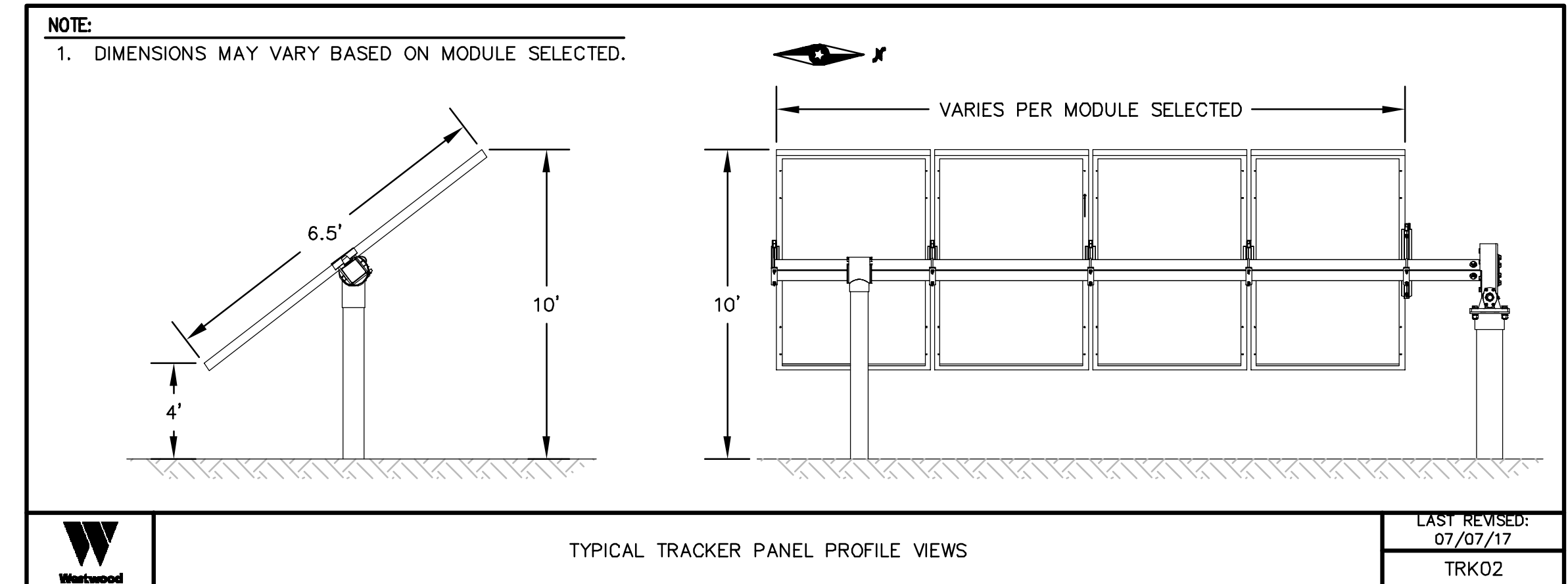
- NOTE:**
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CHAIN-LINK SECURITY FENCE DETAIL (NOT TO SCALE) LAST REVISED: 07/16/13 FN01



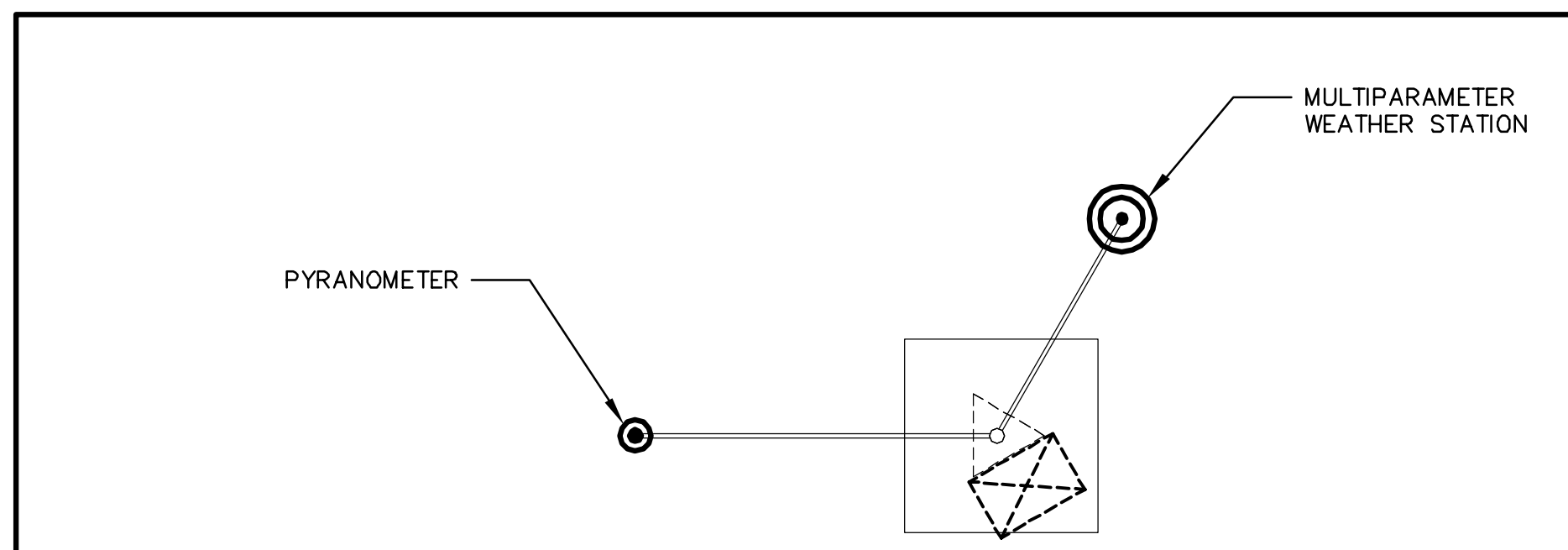
- NOTE:**
1. LOCATION AND DEPTH OF EXISTING UTILITY SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 2. EARTH COVER PROTECTION FOR EXISTING UTILITIES SHALL BE USED WHERE THE COVER OVER THE EXISTING UTILITY IS LESS THAN 12".

EARTH COVER PROTECTION FOR UTILITY CROSSING LAST REVISED: 03/26/15 UT01



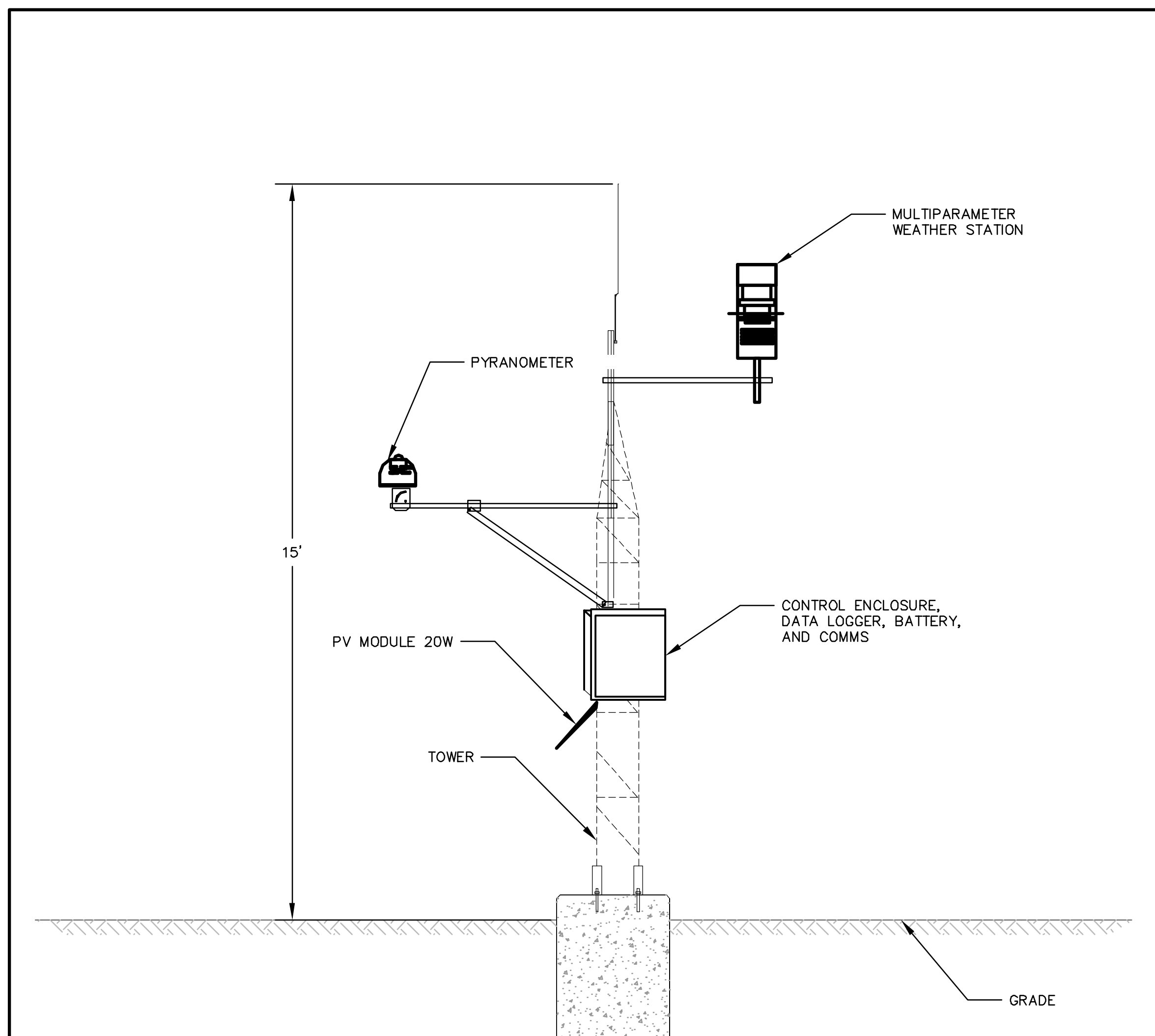
- NOTE:**
 1. DIMENSIONS MAY VARY BASED ON MODULE SELECTED.

TYPICAL TRACKER PANEL PROFILE VIEWS LAST REVISED: 07/07/17 TRK02



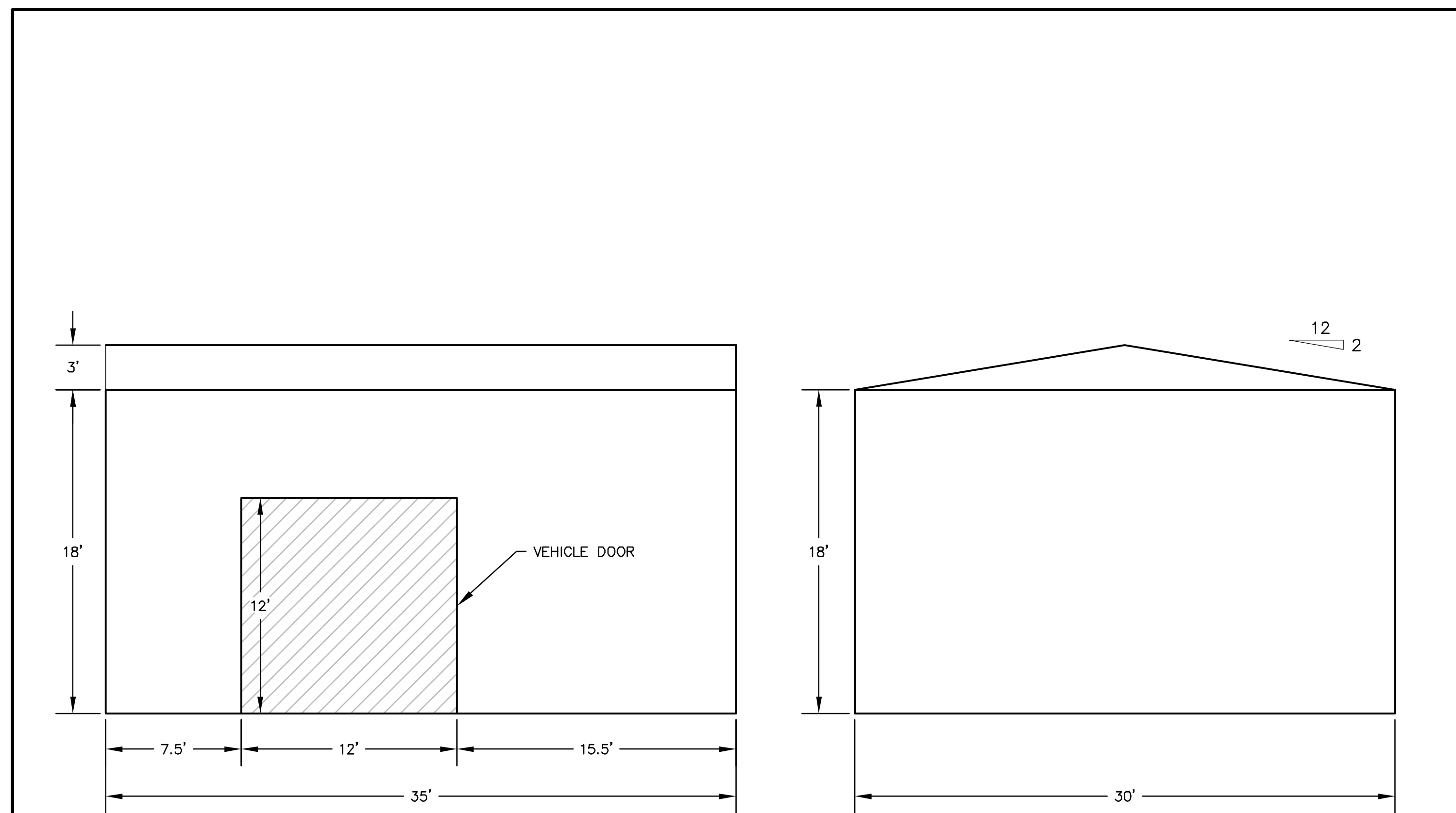
NOTE:
 1. NOT TO SCALE

	TYPICAL WEATHER STATION ELEVATION	LAST REVISED: 12/13/17
		MET01



NOTE:
 1. NOT TO SCALE

	TYPICAL WEATHER STATION ELEVATION	LAST REVISED: 12/13/17
		MET02



NOTE:
 1. NOT TO SCALE

	O&M AND SCADA STRUCTURE ELEVATION	LAST REVISED: 12/13/17
		OM01

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Revised Amendments:

Design:	ETP
Checked:	ADC
Drawn:	ETP
Record Drawing by/date:	

Prepared for:

IP Athos, LLC

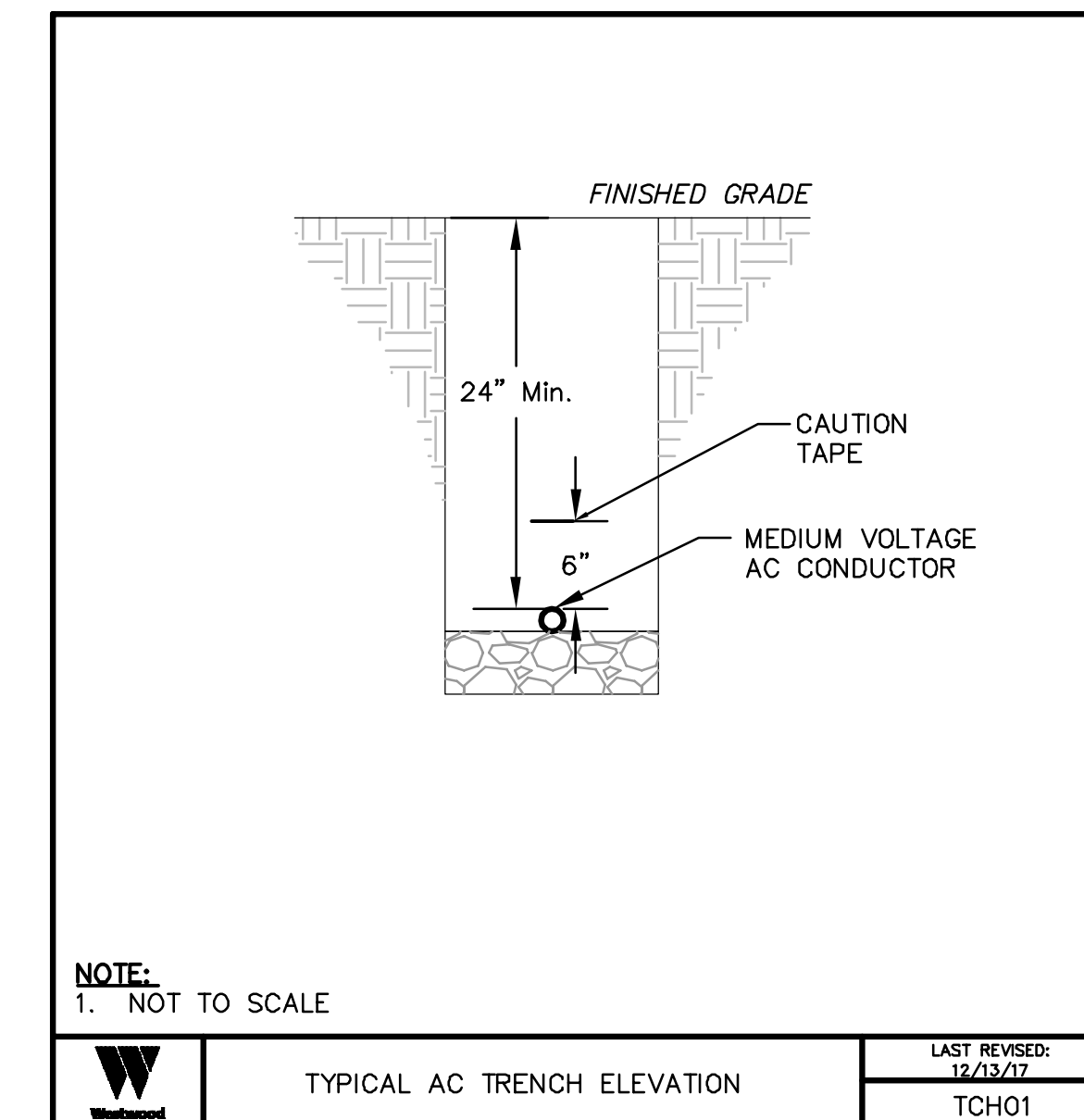
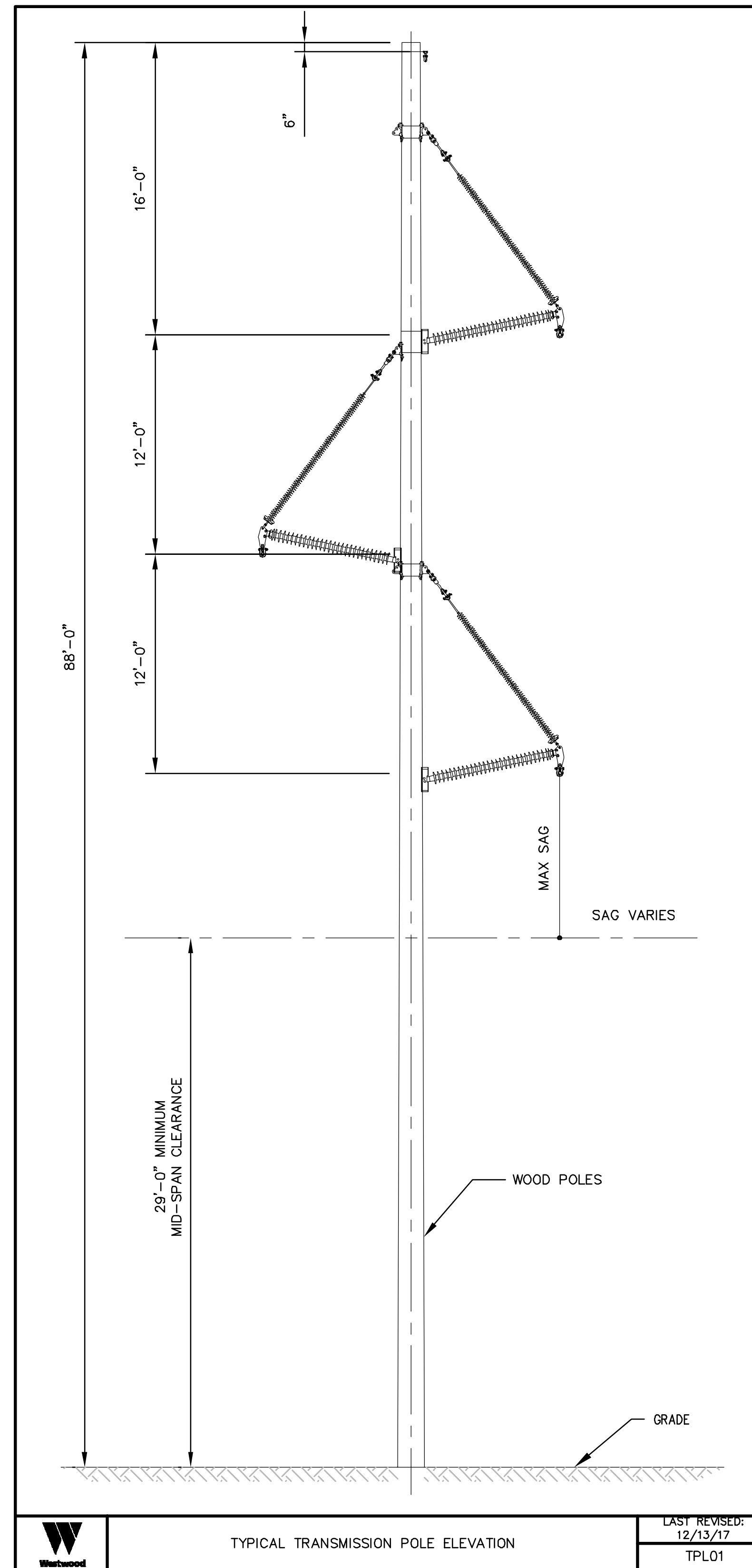
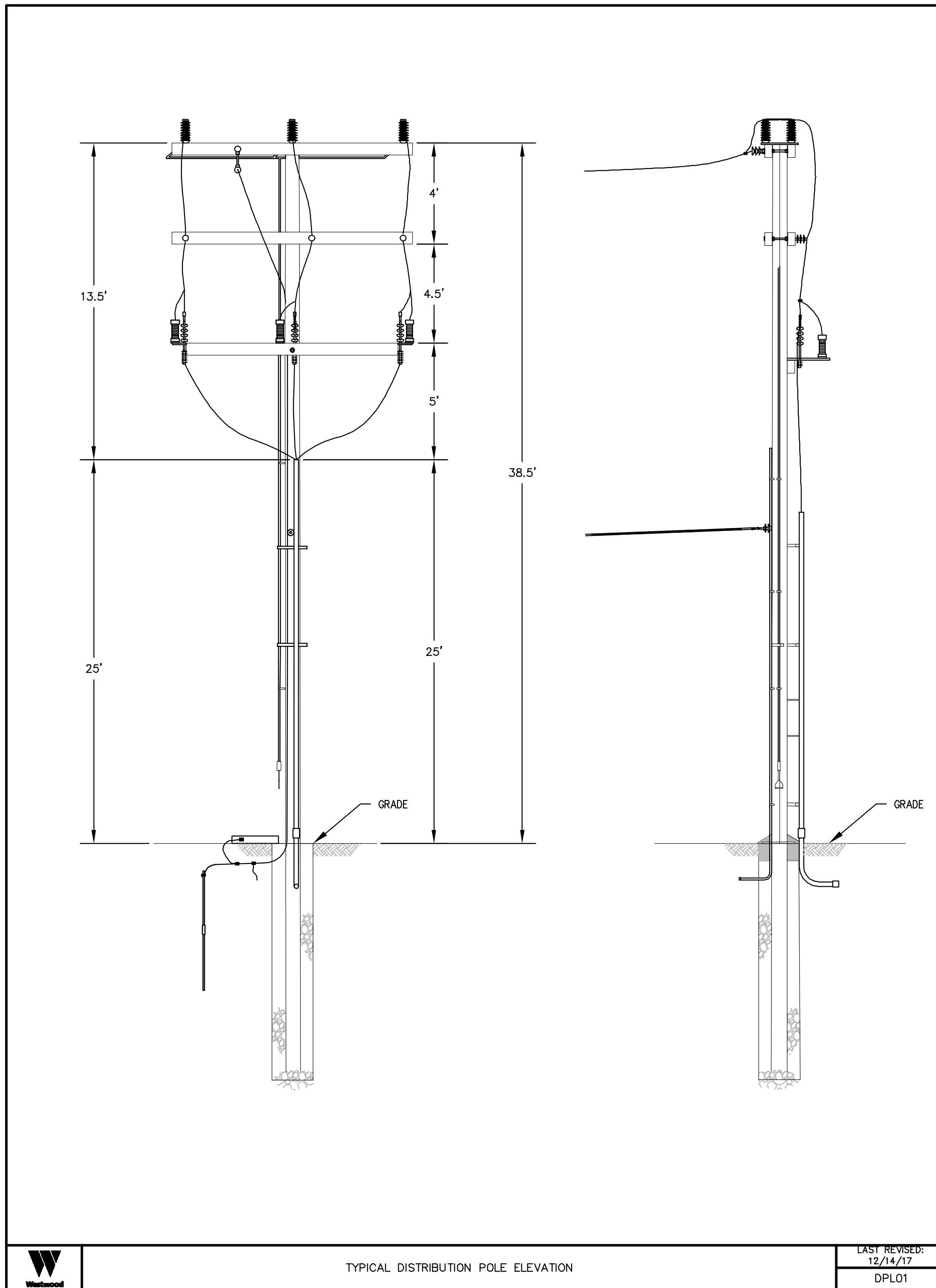
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Date: 01/15/19 Sheet: C.401

Construction Details



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Revisions:

Design: **ETB**
 Check: **ADC**
 Draw: **ETB**
 Record Drawing by/date

Prepared for:

IP Athos, LLC

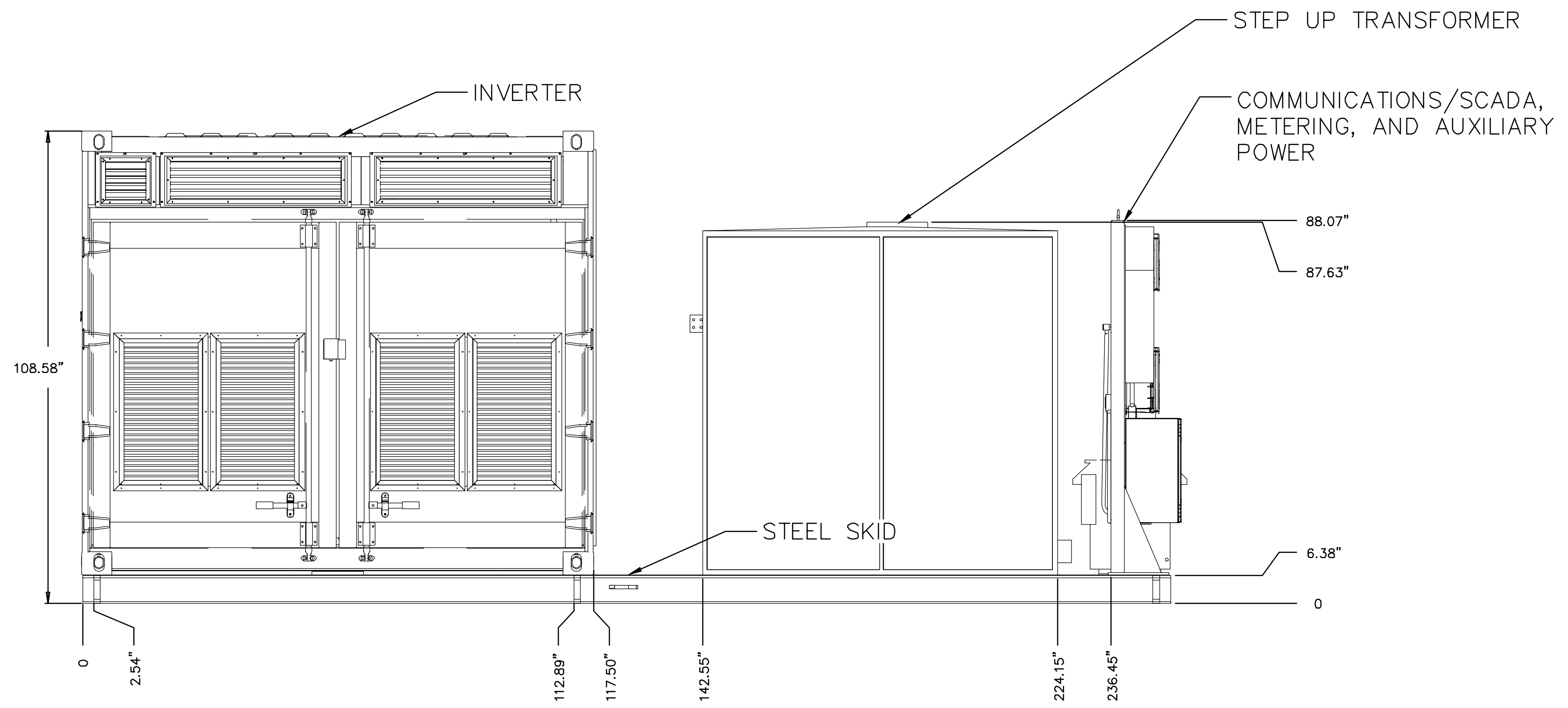
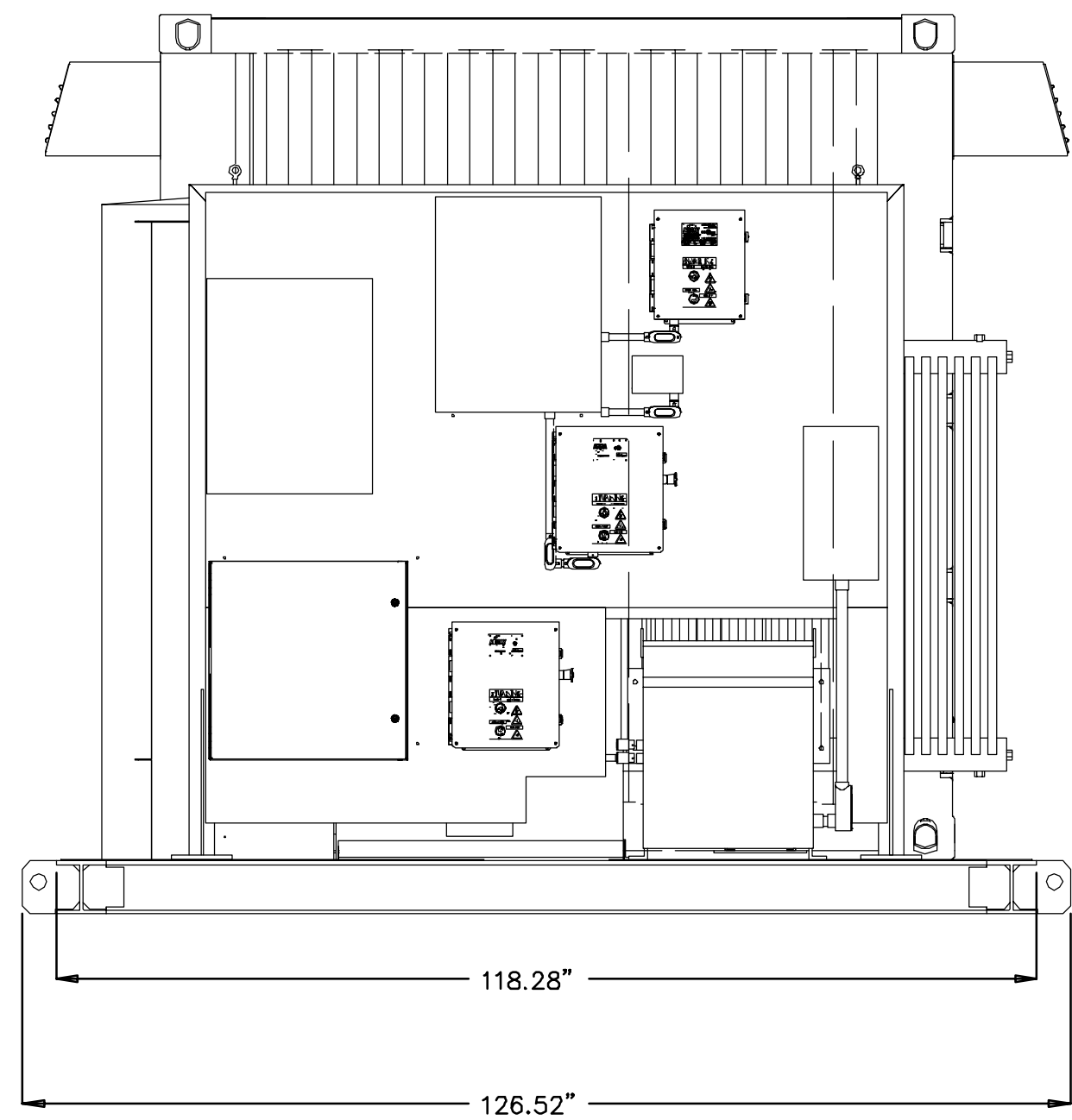
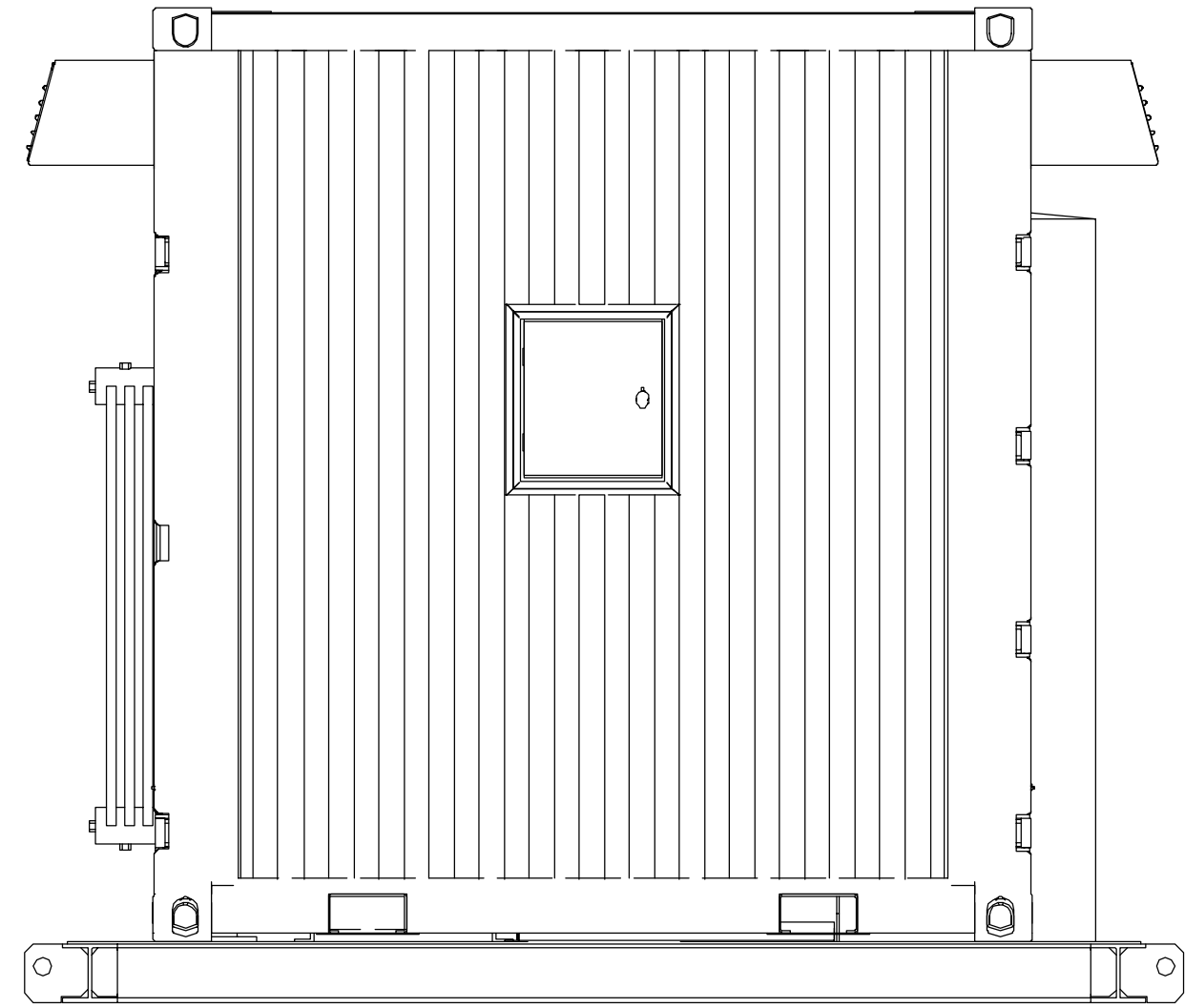
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Date: **01/15/19** Sheet: **C.402**

Construction Details



1 Transformer and Inverter Elevations
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Revised Amendments:

Design: **ETP**
 Check: **ADC**
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 Record Drawing by/date:

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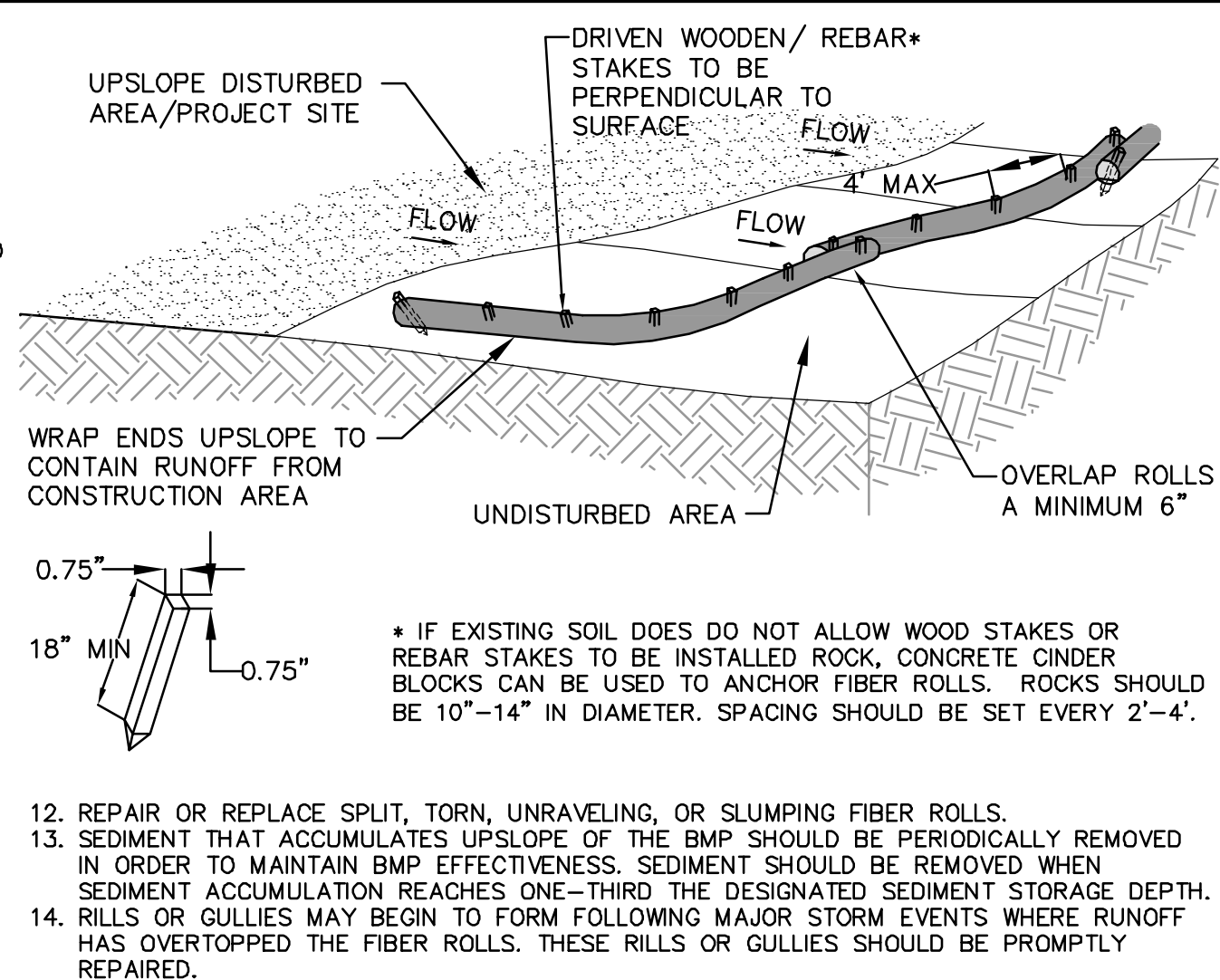
Riverside County, CA

Date: **01/15/19** Sheet: **C.403**

Construction Details

NOTES:

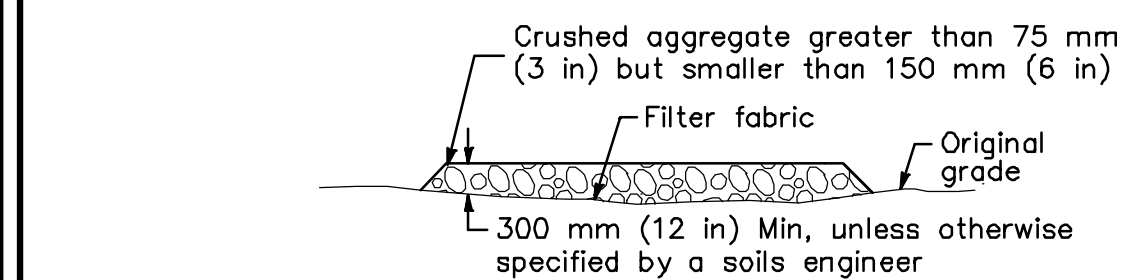
- FIBER ROLLS SHALL BE INSTALLED PRIOR TO UPSLOPE DISTURBANCE ACTIVITIES COMMENCE.
- FIBER ROLLS SHALL BE PREFABRICATED AND MADE FROM WEED FREE RICE STRAW, FLAX, OR A SIMILAR AGRICULTURAL MATERIAL BOUND INTO A TIGHT TUBULAR ROLL BY NETTING. USE A 6" OR 12" DIA. ROLL.
- TRENCHES SHALL BE CREATED ALONG THE SLOPE OF THE PERIMETER. THE TRENCH DEPTH SHOULD BE 1/4 TO 1/3 OF THE THICKNESS OF THE ROLL, AND THE WIDTH SHOULD EQUAL THE ROLL DIAMETER, IN ORDER TO PROVIDE AREA TO BACKFILL THE TRENCH.
- STAKE FIBER ROLLS INTO THE TRENCH. DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FEET MAXIMUM ON CENTER. USE WOOD STAKES WITH NOMINAL CLASSIFICATION OF 0.75 IN BY 0.75 IN. AND A MINIMUM LENGTH OF 24 IN.
- ROLLS SHALL BE INSTALLED PERPENDICULAR TO WATER MOVEMENT, AND PARALLEL TO THE SLOPE CONTOUR.
- TURN THE ENDS OF THE FIBER ROLLS UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL. THE UPSLOPE POINT SHOULD BE A MINIMUM 6" HIGHER IN ELEVATION THAN THE LOW POINT.
- IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED A MINIMUM OF 6 INCHES, NOT ABUTTED.
- FIBER ROLLS ENCASED WITH PLASTIC NETTING ARE USED FOR A TEMPORARY APPLICATION ONLY AND SHOULD BE REMOVED FOLLOWING STABILIZATION. FIBER ROLLS USED IN A PERMANENT APPLICATION SHALL BE ENCASED WITH A BIODEGRADABLE MATERIAL AND MAY BE LEFT IN.
- TEMPORARY INSTALLATIONS SHOULD ONLY BE REMOVED WHEN UP GRADIENT AREAS ARE STABILIZED PER GENERAL PERMIT REQUIREMENTS, AND/OR POLLUTANT SOURCES NO LONGER PRESENT A HAZARD. BUT, THEY SHOULD ALSO BE REMOVED BEFORE VEGETATION BECOMES TOO MATURE SO THAT THE REMOVAL PROCESS DOES NOT DISTURB MORE SOIL AND VEGETATION THAN IS NECESSARY.
- FIBER ROLLS MUST BE INSPECTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS FOR THE ASSOCIATED PROJECT TYPE AND RISK LEVEL. IT IS RECOMMENDED THAT AT A MINIMUM, THE BMPs BE INSPECTED WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING EXTENDED RAIN EVENTS, AND AFTER THE CONCLUSION OF RAIN EVENTS.



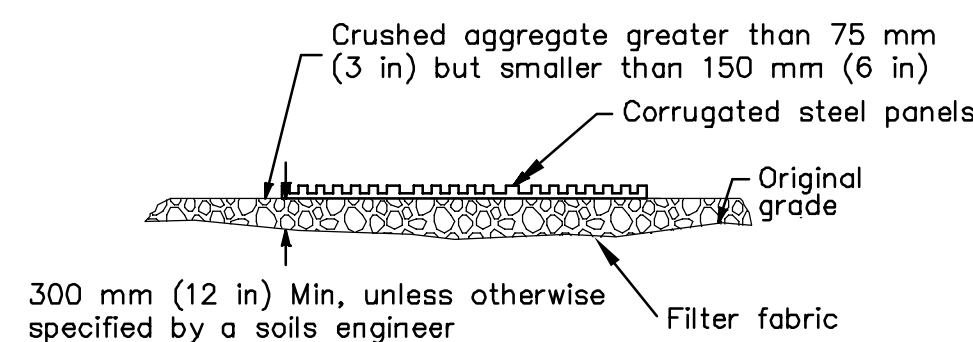
* IF EXISTING SOIL DOES NOT ALLOW WOOD STAKES OR REBAR STAKES TO BE INSTALLED ROCK, CONCRETE CINDER BLOCKS CAN BE USED TO ANCHOR FIBER ROLLS. ROCKS SHOULD BE 10"-14" IN DIAMETER. SPACING SHOULD BE SET EVERY 2'-4'.

TYPICAL FIBER ROLLS FOR PERIMETER CONTROL OF CONSTRUCTION AREA LIMIT

LAST REVISED:
09/29/13
SE-5

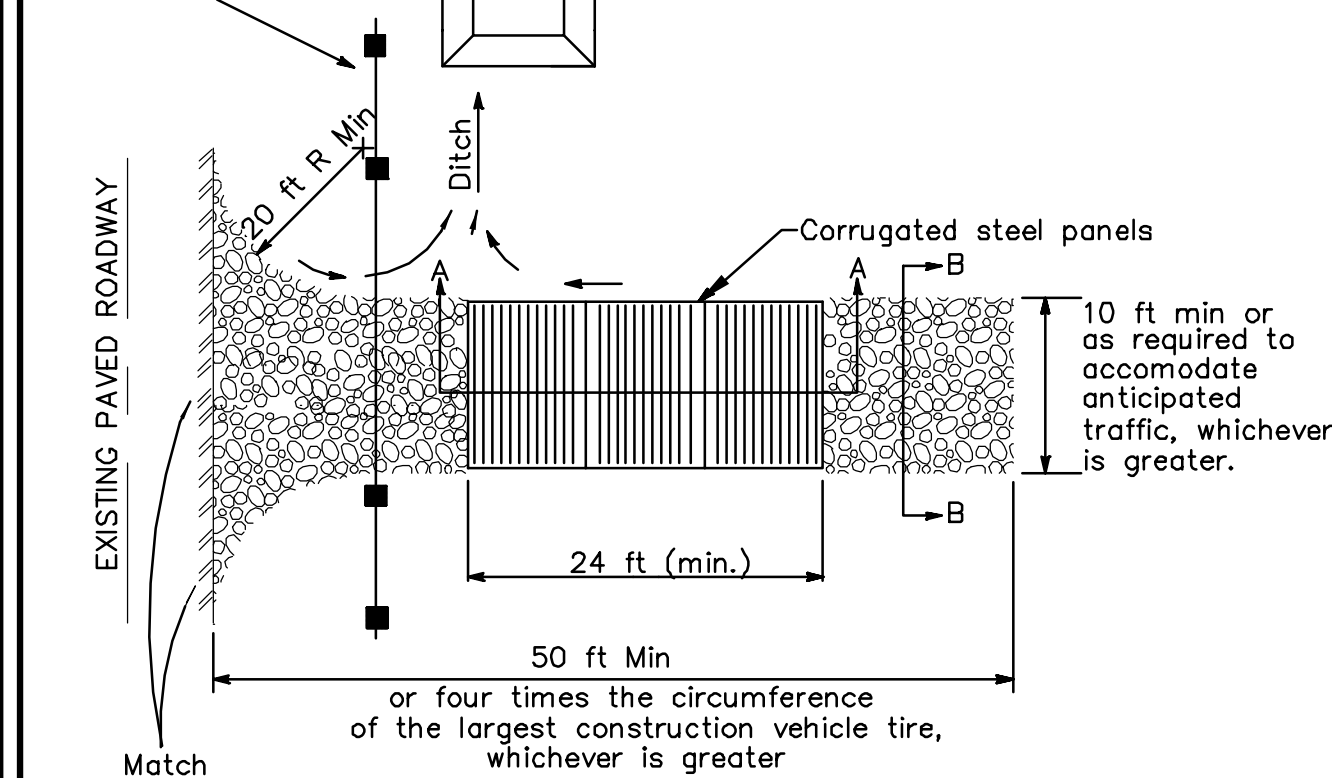


SECTION B-B
NTS



SECTION A-A
NOT TO SCALE

NOTE: Construct sediment barrier and channelize runoff to sediment trapping device

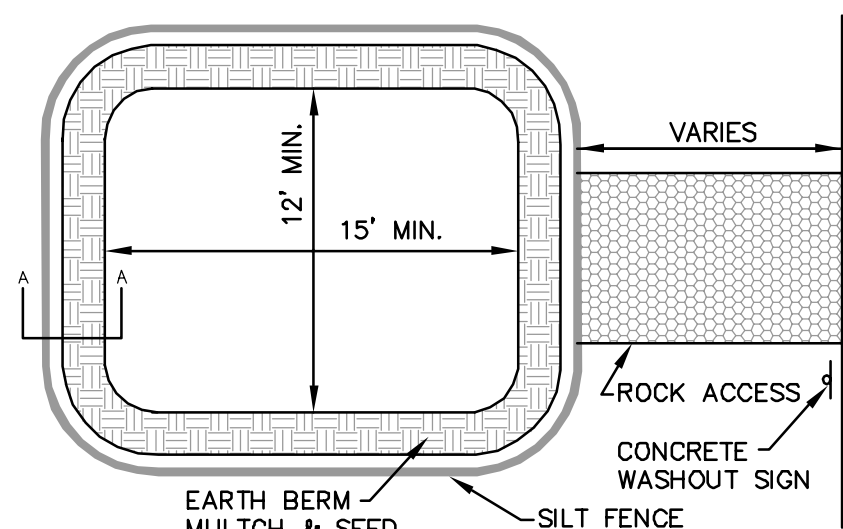


PLAN
NTS

ROCK CONSTRUCTION ENTRANCE
(NOT TO SCALE)

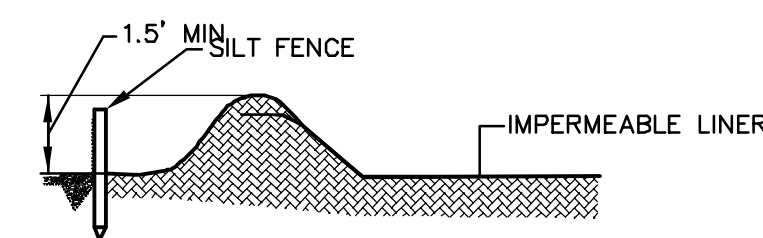
LAST REVISED:
11/05/13

AN APPROVED ALTERNATE MAY BE USED
USE AS NEEDED



NOTE: CONCRETE WASHOUT AREAS WILL HAVE AN IMPERMEABLE LINER TO PREVENT CONCRETE WASHOUT WATER FROM INFILTRATING/CONTACTING WITH SOIL. IMPERMEABLE LINER INCLUDES 10 MIL POLYLINER OR COMPACTED CLAY LINER. WASHOUT SYSTEMS CAN BE USED AS ALTERNATE WASHOUT AREAS.

SECTION A-A



CONCRETE WASHOUT AREA

LAST REVISED:
10/14/14

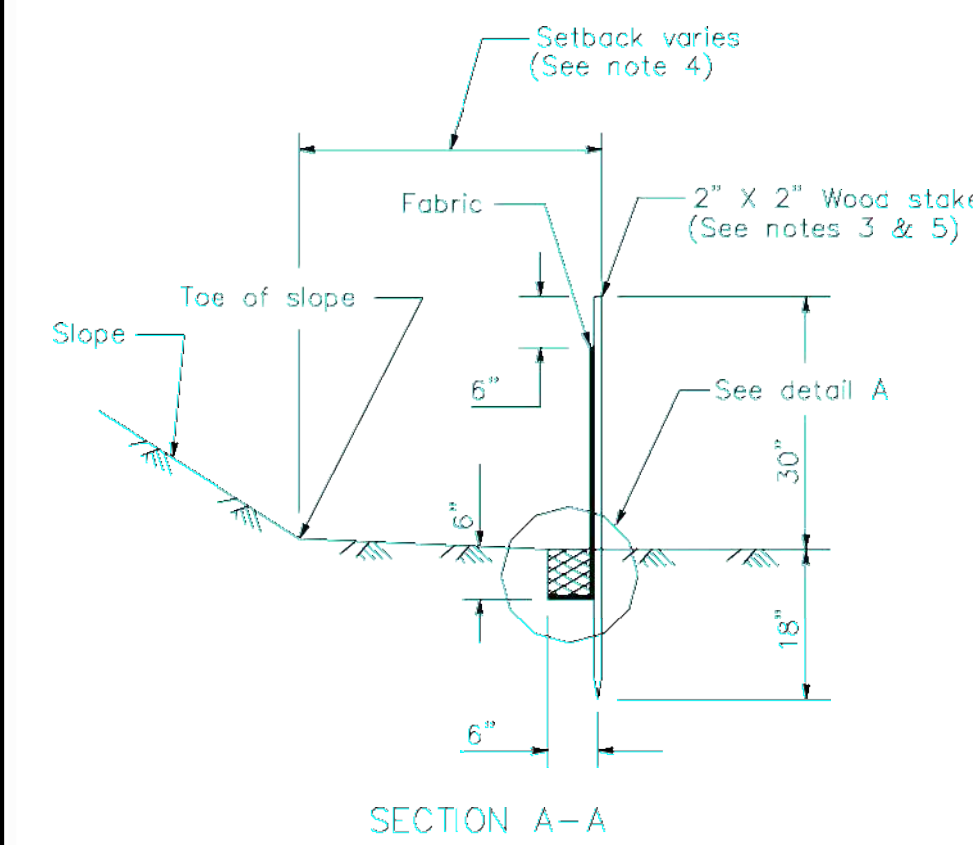
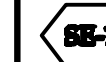
NOTE:

- CONSTRUCT THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED 1/3 THE HEIGHT OF THE LINEAR BARRIER. IN NO CASE SHALL THE REACH LENGTH EXCEED 300'.
- THE LAST 8'-0" OF FENCE SHALL BE TURNED UP SLOPE.
- STAKE DIMENSIONS ARE NOMINAL.
- DIMENSION MAY VARY TO FIT FIELD CONDITION.
- STAKES SHALL BE SPACED AT 8'-0" MAXIMUM AND SHALL BE POSITIONED ON DOWNSTREAM SIDE OF FENCE.
- STAKES TO OVERLAP AND FENCE FABRIC TO FOLD AROUND THE TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
- STAKES SHALL BE DRIVEN TIGHTLY TOGETHER TO PREVENT POTENTIAL FLOW-THROUGH OF SEDIMENT AT JOINT. THE TOPS OF THE STAKES SHALL BE SECURED WITH WIRE.
- FOR END STAKE, FENCE FABRIC SHALL BE FOLDED AROUND TWO STAKES ONE FULL TURN AND SECURED WITH 4 STAPLES.
- MINIMUM 4 STAPLES PER STAKE. DIMENSIONS SHOWN ARE TYPICAL.
- CROSS BARRIERS SHALL BE A MINIMUM OF 1/3 AND A MAXIMUM 1/2 THE HEIGHT OF THE LINEAR BARRIER.
- MAINTENANCE OPENINGS SHALL BE CONSTRUCTED IN A MANNER TO ENSURE SEDIMENT REMAINS BEHIND SILT FENCE.
- JOINING SECTIONS SHALL NOT BE PLACED AT SUMP LOCATIONS.

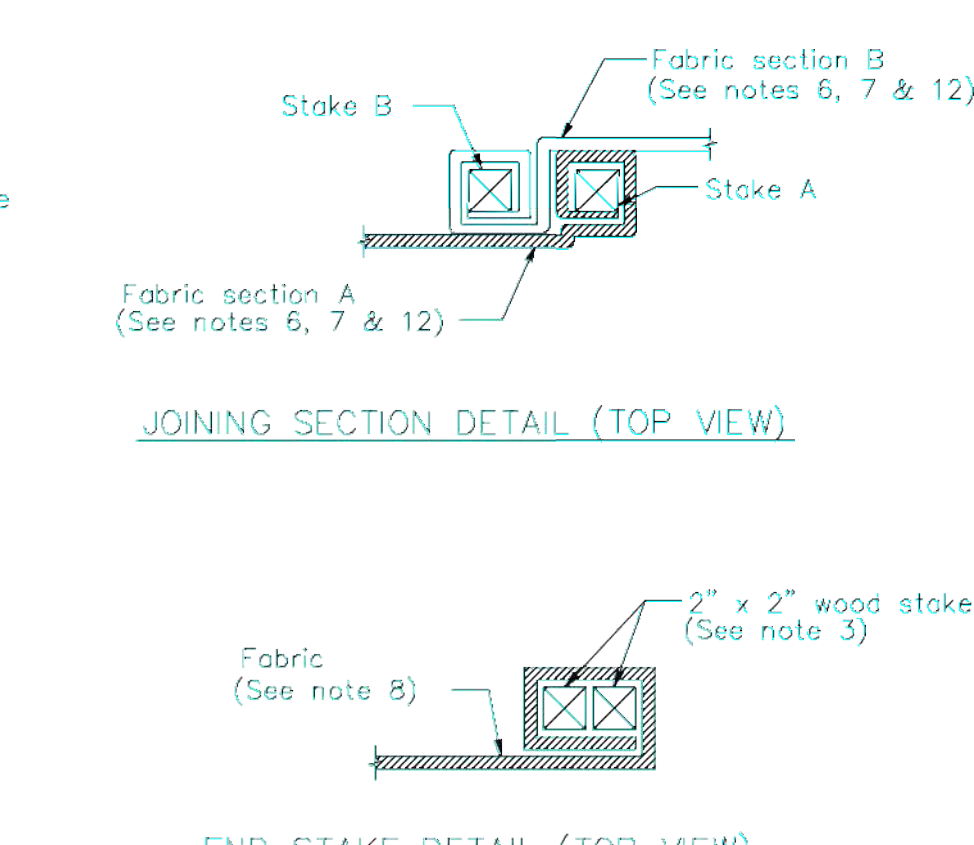


SILT FENCE

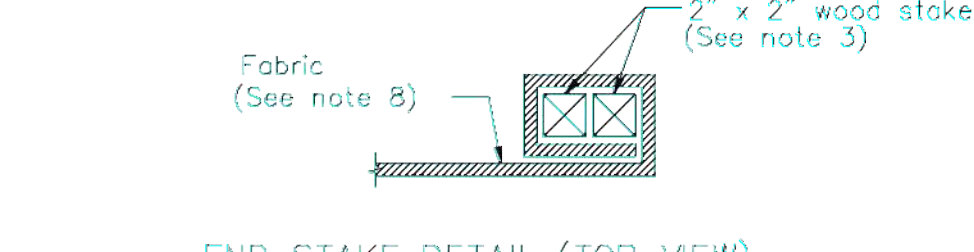
LAST REVISED:
03/25/15



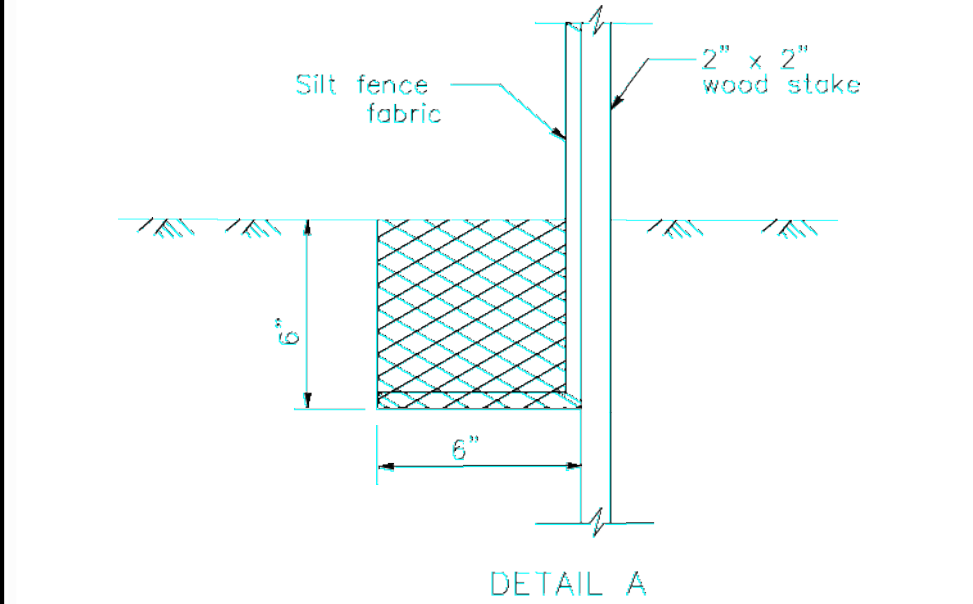
SECTION A-A



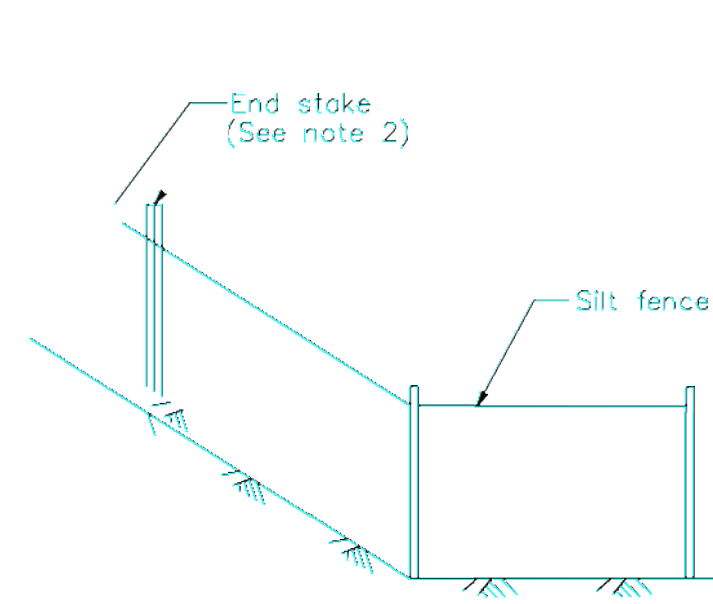
JOINING SECTION DETAIL (TOP VIEW)



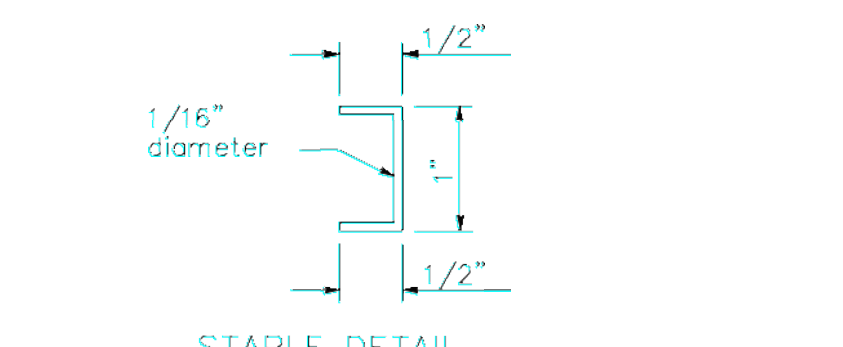
END STAKE DETAIL (TOP VIEW)



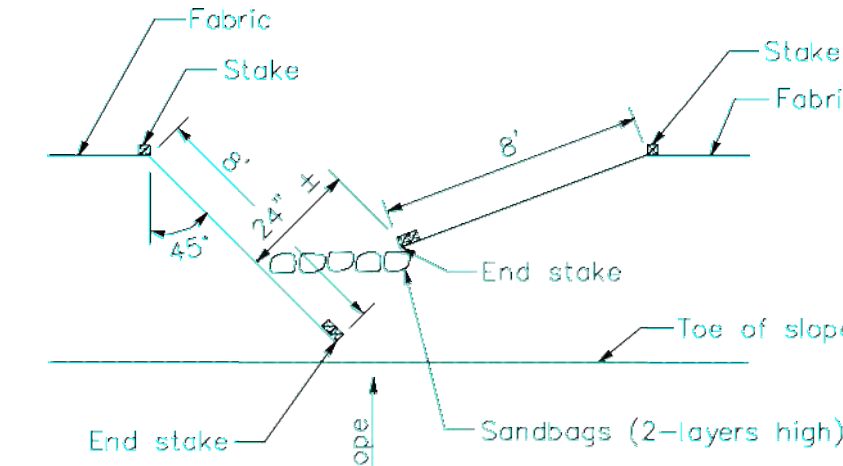
DETAIL A



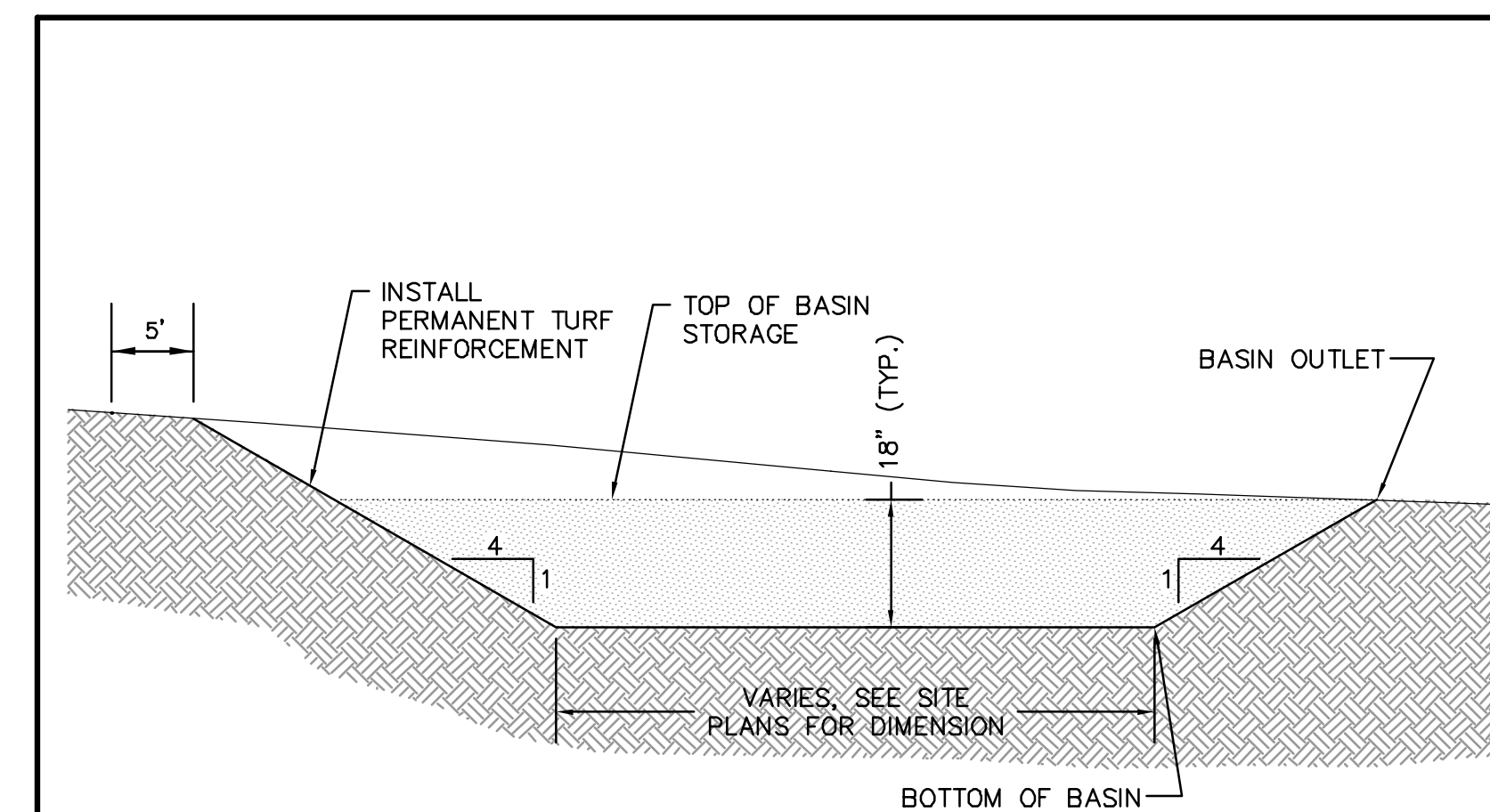
END DETAIL



STAPLE DETAIL
(SEE NOTE 9)



OPTIONAL MAINTENANCE OPENING DETAIL
(SEE NOTE 11)



NOTES:

- REFER TO SITE PLANS FOR ACTUAL DIMENSIONS AND ELEVATIONS OF BASINS.
- MINIMUM SLOPE FOR BASINS SHALL BE 4:1 (H:V).
- BASIN SHALL HAVE VEGETATION ESTABLISHED PER THE AGRICULTURAL MANAGEMENT PLAN AND SWPPP.



TYPICAL BASIN CROSS SECTION
(NOT TO SCALE)

LAST REVISED:
07/19/13
GD01

ROAD DESIGN PARAMETERS

- ROAD CONSTRUCTION DESIGN HAS BEEN SELECTED FOR USE BY LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL CONDITIONS. THE ROAD DESIGN SPECIFIED IS NOT INTENDED FOR HEAVY DUTY, HIGH VOLUME, ALL WEATHER USE. ROAD MAINTENANCE IS ANTICIPATED DURING CONSTRUCTION.
- ROAD MAINTENANCE CAN BE EXPECTED OVER THE LIFE OF THE PERMANENT FACILITY.

PRODUCTS

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CURRENT REVISION OF THE SWPPP AND THE CALIFORNIA STORMWATER QUALITY ASSOCIATION.
- AGGREGATE ROAD BASE AND SUBGRADE BELOW TRAILER PARKING AREA SHALL CONSIST OF CLASS II AGGREGATE BASE, MEETING THE REQUIREMENTS OF THE LATEST CALTRANS STANDARDS AND SPECIFICATIONS AND/OR MEETING THE GRADATION PROVIDED IN TABLE 1.
- EXCAVATED SOILS THROUGHOUT PROJECT SHALL BE UTILIZED AS FILL. SOILS SHALL BE CLEAN OF DEBRIS AND ORGANIC MATERIAL.
- ALL OTHER SITE ROADS SHALL CONSIST OF COMPACTED NATIVE SOILS WITH SOIL STABILIZERS.
- SOIL STABILIZER SHALL BE AN APPROVED PRODUCT BY THE STATE OF CALIFORNIA AND IT'S REGULATORY AGENCIES.
- GEOTEXTILE FABRIC (IF USED) SHALL BE MIRAFI HP270 OR APPROVED EQUAL.

EXECUTION

1. SITE PREPARATION

- THE CONTRACTOR SHALL BE REQUIRED TO CLEAR AND GRUB AREAS DESIGNATED ON THE PLANS. REMOVE ALL TREES, STUMPS, BRUSH, AND DEBRIS WITHIN THE PROJECT AREAS IN AREAS WHERE FILL WILL BE 6" OR GREATER INCLUDING THE TRAILER/PARKING AREA, SUBSTATION AREA, AND ROADWAY AREAS.
- AREAS THAT ARE NOT TO BE CLEARED AND GRUBBED SHALL HAVE THE EXISTING VEGETATION MOWED TO A MINIMUM HEIGHT OF 3 INCHES.
- THE CONTRACTOR SHALL PRESERVE OTHER EXISTING VEGETATION TO THE MAXIMUM EXTENT PRACTICABLE. ANY VEGETATION THAT IS REMOVED SHALL ONLY BE ALLOWED WITHIN THE PROJECT BOUNDARY. THE CONTRACTOR IS TO REMOVE ONLY THAT VEGETATION WHICH SHALL BE DESIGNATED BY THE OWNERS REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING VEGETATION TO BE SAVED. CONSTRUCTION FENCING MAY BE INSTALLED TO PROTECT AREAS THAT ARE NOT TO BE DISTURBED.
- TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY, PARKING AND TRAILER AREAS THROUGH THE ROOT ZONE. TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THE DESIGNATED CLEARING AND GRUBBING AREAS. STRIPPED MATERIALS CONSISTING OF VEGETATION AND ORGANIC MATERIALS SHALL BE WASTED FROM THE SITE OR USED TO REVEGETATE LANDSCAPED AREAS OR EXPOSED SLOPES AFTER COMPLETION OF GRADING OPERATIONS. IF IT IS NECESSARY TO DISPOSE OF ORGANIC MATERIALS ON-SITE THEY SHALL BE PLACED IN NON-STRUCTURAL AREAS, AND IN FILL SECTIONS NOT EXCEEDING FIVE (5) FEET IN HEIGHT.
- EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE. GENERALLY, EMBANKMENTS SHALL HAVE COMPACTED SUPPORT SLOPES OF FOUR FEET HORIZONTAL TO ONE FOOT VERTICAL. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE OBTAINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8".
- ALL SLOPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GRADING SHOWN ON THE PLANS.
- EXPOSED SURFACES SHALL BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM COMPACTION.
- IF FILL IS PLACED IN AREAS OF THE SITE WHERE EXISTING SLOPES ARE STEEPER THAN 5:1 (HORIZONTAL:VERTICAL), THE AREA SHALL BE BENCHED TO REDUCE THE POTENTIAL FOR SLIPPAGE BETWEEN EXISTING SLOPES AND FILLS.
- BENCHES SHALL BE WIDE ENOUGH TO ACCOMMODATE COMPACTION AND EARTH MOVING EQUIPMENT, AND TO ALLOW PLACEMENT OF HORIZONTAL LIFTS OF FILL.
- NO BURNING OF DEBRIS IS ALLOWED WITHOUT THE NECESSARY PERMITS FROM JURISDICTIONAL GOVERNING AUTHORITIES AND APPROVAL BY THE OWNER.

2. SUBGRADE PREPARATION

- ACCESS ROADS – SUBSEQUENT TO THE SURFACE CLEARING AND GRUBBING, COMPACTION AND PROOF ROLLING EFFORTS THE EXPOSED SUBGRADE SOILS SHALL BE OBSERVED BY A GEOTECHNICAL ENGINEER TO IDENTIFY IF SOFT AREAS EXIST. IF SOFT SOILS EXIST THEY SHALL BE OVER EXCAVATED. THE REMOVED SOILS MAY BE PLACED BACK IN THE SUBEXCAVATION AS COMPACTED FILL. SCARIFICATION AND RECOMPACTION SHALL EXTEND HORIZONTALLY AT LEAST TWO FEET BEYOND THE OUTSIDE EDGE OF THE DRIVABLE SURFACE.
- CONCRETE PAD – SUBSEQUENT TO THE SURFACE CLEARING AND GRUBBING EFFORTS THE EXPOSED SUBGRADE SOILS SHALL BE SCARIFIED TO A DEPTH OF 12 INCHES, MOISTURE CONDITIONED TO APPROXIMATELY THREE PERCENT OF OPTIMUM MOISTURE CONTENT AND RECOMPACTED TO AT LEAST 90% OF MAXIMUM DRY DENSITY. NON-EXPANSIVE FILL SOILS CAN BE USED AS AN ALTERNATE TO EXISTING SOILS. SEE TABLE 3 FOR REQUIREMENTS.
- THE MOISTURE CONTENT AND COMPACTION OF SUBGRADE SOILS SHALL BE MAINTAINED UNTIL SLAB OR PAVEMENT CONSTRUCTION.
- EXPOSED AREAS WHICH WILL RECEIVE FILL, ONCE PROPERLY CLEARED AND BENCHED WHERE NECESSARY, SHALL BE SCARIFIED TO A MINIMUM DEPTH OF EIGHT (8) INCHES, CONDITIONED TO NEAR OPTIMUM MOISTURE CONTENT, AND COMPACTED.
- CLEAN ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING AND ROADWAY AREAS.

3. FILL MATERIALS AND PLACEMENT

- ALL FILL MATERIALS SHALL BE INORGANIC SOILS FREE OF VEGETATION, DEBRIS, AND FRAGMENTS LARGER THAN THREE (3) INCHES IN SIZE. PEA GRAVEL OR OTHER SIMILAR NON-CEMENTITIOUS, POORLY-GRADED MATERIALS SHALL NOT BE USED AS FILL OR BACKFILL WITHOUT THE PRIOR APPROVAL OF THE GEOTECHNICAL ENGINEER.
- CLEAN ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS FILL MATERIAL FOR GENERAL SITE GRADING.
- IMPORTED SOILS MUST HAVE EXPANSION VALUES IN THE "VERY LOW" RANGE.
- WHERE FILL IS PLACED ON A SLOPING GROUND WHERE THE SLOPE IS STEEPER THAN 20% AND HAS A VERTICAL CHANGE GREATER THAN 10 FT, BENCHING SHALL BE PROVIDED. THE BENCH SHALL BE A MINIMUM 15 FT WIDE.
- ENGINEERED FILL SHALL BE PLACED AND COMPACTED IN HORIZONTAL LIFTS, USING EQUIPMENT AND PROCEDURES THAT WILL PRODUCE RECOMMENDED MOISTURE CONTENTS AND DENSITIES THROUGHOUT THE LIFT. FILL LIFTS SHALL NOT EXCEED TWELVE (12) INCHES LOOSE THICKNESS.

4. TRENCH PREPARATION

- TRENCH'S SHALL BE EXCAVATED TO THE DEPTH IDENTIFIED IN THE ELECTRICAL DRAWINGS/DETAILS.
- TRENCH BACKFILL SHALL CONSIST OF APPROVED, ONSITE OR IMPORT SOILS. SOILS SHALL BE FREE OF VEGETATION, DEBRIS, AND FRAGMENTS LARGER THAN 3 INCHES.
- INITIAL BACKFILL LIFT SHALL BE 18", ADDITIONAL BACKFILL LIFTS SHALL NOT EXCEED 9 INCHES OF LOOSE MATERIAL. IF TESTING OF THE INITIAL LIFT DOES NOT PROVIDE THE REQUIRED DENSITY THE INITIAL BACKFILL LIFT WILL BE REDUCED TO A 9 INCH LOOSE THICKNESS.
- BACKFILL SHALL BE COMPACTED TO AT LEAST 90% OF MAXIMUM DRY DENSITY IN NON-STRUCTURAL AREAS AND 95% OF MAXIMUM DRY DENSITY UNDER STRUCTURAL AREA OR WITH IN 18" OF SOLAR POST FOUNDATION, AND WITHIN 3% OF OPTIMUM MOISTURE.
- TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED.

TESTING REQUIREMENTS:

DEFINITIONS

- TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY.
- SUBMIT TESTING AND INSPECTION RECORDS SPECIFIED TO THE CIVIL ENGINEER OF RECORD FOR REVIEW.
 - THE ENGINEER WILL REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK.
- PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 25 TONS OR A FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING. PROOF-ROLLING ACCEPTANCE STANDARDS INCLUDE NO RUTTING GREATER THAN 1.5 INCHES, AND NO "PUMPING" OF THE SOIL BEHIND THE LOADED TRUCK.
- SIEVE ANALYSIS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C136
- PROCTORS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D698
- ATTERBERG LIMITS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D4318
- MOISTURE DENSITY (NUCLEAR DENSITY) TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM D2922
- DYNAMIC CONE PENETROMETER (DCP) TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM D6951-03
- RESISTANCE (R-VALUE) SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA TEST 301
- SAND EQUIVALENT SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA TEST 217
- DURABILITY INDEX SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA TEST 229

REQUIREMENTS

- COMPACTION:
 - REFER TO TABLE 3 FOR COMPACTION REQUIREMENTS AND ACCEPTABLE MOISTURE CONTENTS.
- FILL MATERIAL:
 - SOILS USED AS FILL MATERIAL SHALL BE TESTED FOR GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, PROCTOR TESTS, R-VALUES, SAND EQUIVALENTS, DURABILITY INDEX, LIQUID LIMIT, PLACTICITY INDEX, AND MAXIMUM EXPANSION INDEX.
- COMPACTED SUBGRADE:
 - PROVIDE 1 MOISTURE DENSITY COMPACTION TEST FOR EVERY 2,640 L.F. OF ROAD LENGTH
 - THE ENTIRE SUBGRADE SHALL BE PROOF-ROLLED PRIOR TO THE PLACEMENT OF THE AGGREGATE BASE TO IDENTIFY AREAS OF UNSTABLE SUBGRADE. IF UNSTABLE SUBGRADE IS ENCOUNTERED SCARIFY, MOISTURE CONDITION, AND RECOMPACT SOILS TO ACHIEVE COMPACTION.
- AGGREGATE BASE:
 - PROVIDE 1 MOISTURE DENSITY COMPACTION TEST FOR EVERY 2,640 L.F. OF ROAD LENGTH.
 - AGGREGATE BASE SHALL BE PROOF-ROLLED OVER THE ENTIRE LENGTH. IF PROOF ROLLING DETERMINES THAT THE ROAD IS UNSTABLE, ADDITIONAL AGGREGATE SHALL BE ADDED UNTIL THE UNSTABLE SECTION IS ABLE TO PASS A PROOF ROLL FOR ALL ROAD CLASSIFICATIONS.
 - PROVIDE 1 SIEVE ANALYSIS PER 2500 CY OF ROAD BASE PLACED.
- MISCELLANEOUS FILL:
 - PROVIDE MOISTURE DENSITY COMPACTION TESTS ONCE PER 2 VERTICAL FOOT LIFTS AND/OR 1,000 C.Y. OF COMPACTED FILL MATERIAL.

TABLE 1: CLASS 2 AGGREGATE BASE GRADATION	
SIEVE SIZE	PERCENT PASSING
2"	(100)
1-½"	(90-100)
¾"	(50-85)
#4	(25-45)
#30	(10-25)
#200	(2-9)
QUALITY REQUIREMENTS	
RESISTANCE (R-VALUE)	78 MIN.
SAND EQUIVALENT	22 MIN.
DURABILITY INDEX	35 MIN.

TABLE 2: TESTING SCHEDULE SUMMARY		
LOCATION	TEST	FREQUENCY
STRUCTURAL FILL	GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR	1 PER MAJOR SOIL TYPE
COMPACTED SUBGRADE	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 EVERY 2,640 LF OF ROAD
	PROOF-ROLL	ENTIRE LENGTH
AGGREGATE BASE	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 EVERY 2,640 LF OF ROAD
	PROOF-ROLL	ENTIRE LENGTH
	SIEVE ANALYSIS	1 PER 2500 CY
MISCELLANEOUS FILL:	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 PER 2 VERTICAL FOOT LIFTS AND/OR 1,000 C.Y. OF MATERIAL
TRENCH BACKFILL:	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 EVERY 1,000 LF OF TRENCH, ALTERNATE TEST DEPTHS OF 18" AND AT GRADE

TRAFFIC CONTROL:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE CITY/COUNTY AND ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST VERSION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

GENERAL NOTES:

- CONSTRUCTION PLANS ARE BASED OFF A DESKTOP SURVEY PROVIDED BY WESTWOOD PROFESSIONAL SERVICES.
- PROPOSED SOLAR LAYOUT FOR THIS PROJECT PROVIDED BY WESTWOOD PROFESSIONAL SERVICES.
- ALL DIMENSIONS ARE TO PROJECT BOUNDARY, EDGE OF GRAVEL, FENCE LINES AND SOLAR PANELS UNLESS OTHERWISE NOTED.
- THE GROUND SURFACE CONTOURS (AT ONE-FOOT VERTICAL INTERVALS) AND ELEVATIONS ARE BASED ON PUBLICLY AVAILABLE DATA.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED AND ARE NOT TO BE REMOVED WITHOUT PERMISSION FROM THE OWNER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE EXISTING FACILITIES AND UTILITIES PRIOR TO SITE WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS AND REPAIRS OF DAMAGES TO EXISTING AND NEW FACILITIES RESULTING FROM CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL FIELD VERIFY SURVEY CONTROL AND DESIGN COORDINATES PRIOR TO CONSTRUCTION STAKING.
- CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE DEBRIS AND WASTE FROM PROJECT SITE AT NO EXPENSE TO OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK THE NATURAL DRAINAGE SWALES CAUSING RAINWATER TO POND. IF CULVERTS ARE NEEDED, THE PROJECT ENGINEER MUST BE CONTACTED FOR APPROPRIATE SIZING OF STRUCTURE.
- ANY FACILITIES REMOVED TO ALLOW FOR CONSTRUCTION (MAILBOXES, SIGNS, FENCES, ETC.) SHALL BE REPLACED BY THE CONTRACTOR IN A CONDITION AS GOOD AS PRE-EXISTING. PERMISSION SHALL BE OBTAINED TO REMOVE ITEM BY THE OWNER AND/OR LANDOWNER.
- THE CONTRACTOR SHALL NOTIFY CALIFORNIA DIG ALERT (811 ONE CALL) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
- ALL CONSTRUCTION PERFORMED SHALL CONFORM WITH THE CURRENT STANDARDS AND SPECIFICATION OF RIVERSIDE COUNTY. WHERE DISCREPANCIES EXIST BETWEEN THE PROJECT SPECIFICATIONS AND THE COUNTY SPECIFICATIONS OR STANDARD, THE CONTRACTOR SHALL ABIDE BY THE GREATER OR MORE RESTRICTIVE REQUIREMENTS. ELECTRONIC FILES ARE AVAILABLE FOR CONSTRUCTION OPERATIONS.

EROSION AND SEDIMENT CONTROL / STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

- THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT. SEE THE PROJECT SITE PLANS AND ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR EROSION CONTROL AND RESTORATION LOCATIONS AND SPECIFICATIONS. UNLESS OTHERWISE NOTED OR MODIFIED IN THE SWPPP/HEREIN, ALL SECTIONS OF THE GENERAL CONDITIONS SHALL APPLY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SWPPP'S AVAILABILITY.
- ALL FIBER ROLLS AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED.
- ALL DRAINAGE SWALES DISTURBED DURING CONSTRUCTION ACTIVITIES AND NOT COVERED BY ROAD SURFACING MATERIALS, SHALL BE STABILIZED IN ACCORDANCE WITH THE SWPP PLAN.

TABLE 3: COMPACTION AND MOISTURE CONTENT REQUIREMENTS			
MATERIAL TYPE AND LOCATION	MINIMUM COMPACTION REQUIREMENT (%)	RANGE OF MOISTURE CONTENTS FOR COMPACTION (% OVER OPTIMUM)	
		MINIMUM	MAXIMUM
AGGREGATE BASE:	95	-2%	+2%
MISCELLANEOUS FILL:	95	-2%	+2%
SUBGRADE (BENEATH EQUIPMENT PADS, NATIVE MATERIAL)	90	-3%	+3%
SUBGRADE (BENEATH EQUIPMENT PADS, NON-EXPANSIVE SOILS)	95	-3%	+3%
TRENCH BACKFILL (NON-STRUCTURAL AREAS)	90	-3%	+3%
TRENCH BACKFILL (STRUCTURAL AREAS)	95	-3%	+3%

Athos Solar
Riverside County, CA

Construction Notes

Westwood
Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.

Revised:	_____
_____	_____
_____	_____
_____	_____

Designed:	FTB
Checked:	ADC
Drawn:	FTB
Record Drawing by/date:	_____

Prepared for:

IP Athos, LLC
548 MARKET STREET
SAN FRANCISCO, CA 94104 USA
(415) 675-1500