

DESIGN REVIEW APPLICATION PRELIMINARY DESIGN DRAWINGS MALLARD SLOUGH 1 & 2 SOLAR PROJECTS PITTSBURG, CALIFORNIA



PROJECT APPLICANT

NRG SOLAR DG LLC
100 CALIFORNIA STREET, SUITE 650
SAN FRANCISCO, CA 94111
PH: 415-627-1646

DRAWING SCHEDULE

GEN-001	COVER SHEET
CIV-100.1	SITE PLAN - EXISTING (BOUNDARIES, EASEMENTS, & FLOODING)
CIV-100.2A	EXISTING SITE TOPOGRAPHY
CIV-100.2B	EXISTING SITE TOPOGRAPHY
CIV-101A	CONCEPTUAL GRADING AND DRAINAGE PLAN
CIV-101B	CONCEPTUAL GRADING AND DRAINAGE PLAN
CIV-102A	CONCEPTUAL SITE LAYOUT
CIV-102B	CONCEPTUAL SITE LAYOUT
CIV-103	DETAILS

LEGEND:

- PROPERTY/PARCEL LINE
- EXISTING EASEMENT
- 6' EXISTING TOPOGRAPHIC CONTOUR (2-FOOT MINOR INTERVAL)
- 10' EXISTING TOPOGRAPHIC CONTOUR (10-FOOT MAJOR INTERVAL)
- 10' PROPOSED GRADING TOPOGRAPHIC CONTOUR (2-FOOT INTERVAL)
- FLOW PATH (CONCENTRATED) - EXISTING AND PROPOSED
- DRAINAGE DIRECTION (EXISTING AND PROPOSED)
- PROJECT SITE
- WETLANDS
- FLOOD ZONE AE, HATCHED ON FLOOD SIDE
- 30 FOOT WETLANDS BUFFER BOUNDARY
- 50 FOOT RIPARIAN BUFFER BOUNDARY
- PROPOSED GENERATION TIE LINE
- STORM DRAIN MANHOLE (EXISTING)
- SANITARY SEWER MANHOLE (EXISTING)
- FENCE (PROPOSED)

SITE INFORMATION:

GROSS SITE AREA:	±10,054,083 SF/± 230.81 AC
NET SITE AREA:	±10,054,083 SF/± 230.81 AC
SITE AREA:	±993,269 SF/± 22.80 AC (AREA WITHIN FENCE)
DISTURBANCE AREA:	±1,062,864 SF/± 24.40 AC (FENCED AREA + ACCESS ROAD)
EXISTING ZONING:	IG (INDUSTRIAL GENERAL) / OS (OPEN SPACE)
PROPOSED ZONING:	IG (INDUSTRIAL GENERAL) / OS (OPEN SPACE)/ LIMITED USE OVERLAY
GENERAL PLAN LAND USE:	INDUSTRIAL
EXISTING LAND USE:	VACANT
PROPOSED LAND USE:	PHOTOVOLTAIC ARRAYS/ VACANT

MINIMUM SETBACKS:	REQUIRED	PROVIDED
MINIMUM LOT AREA (SQ. FT.)	20,000	10,054,083
MINIMUM LOT WIDTH (FT.)	100	N/A
MINIMUM YARDS (FT.)		
FRONT	25'	N/A
CORNER SIDE	25'	N/A
SIDE	-	-
SIDE (ADJACENT TO NONINDUSTRIAL DIST.)	10'	N/A
REAR	-	-
REAR (ADJACENT TO NONINDUSTRIAL DIST.)	10'	N/A
MAXIMUM HEIGHT OF STRUCTURES	50	N/A
MAXIMUM LOT COVERAGE	75%	N/A
MAXIMUM FAR	0.8	N/A
MINIMUM SITE LANDSCAPING	10%	N/A

NOT FOR CONSTRUCTION

SHEET SIZE 22"x34" - SCALE ACCORDINGLY

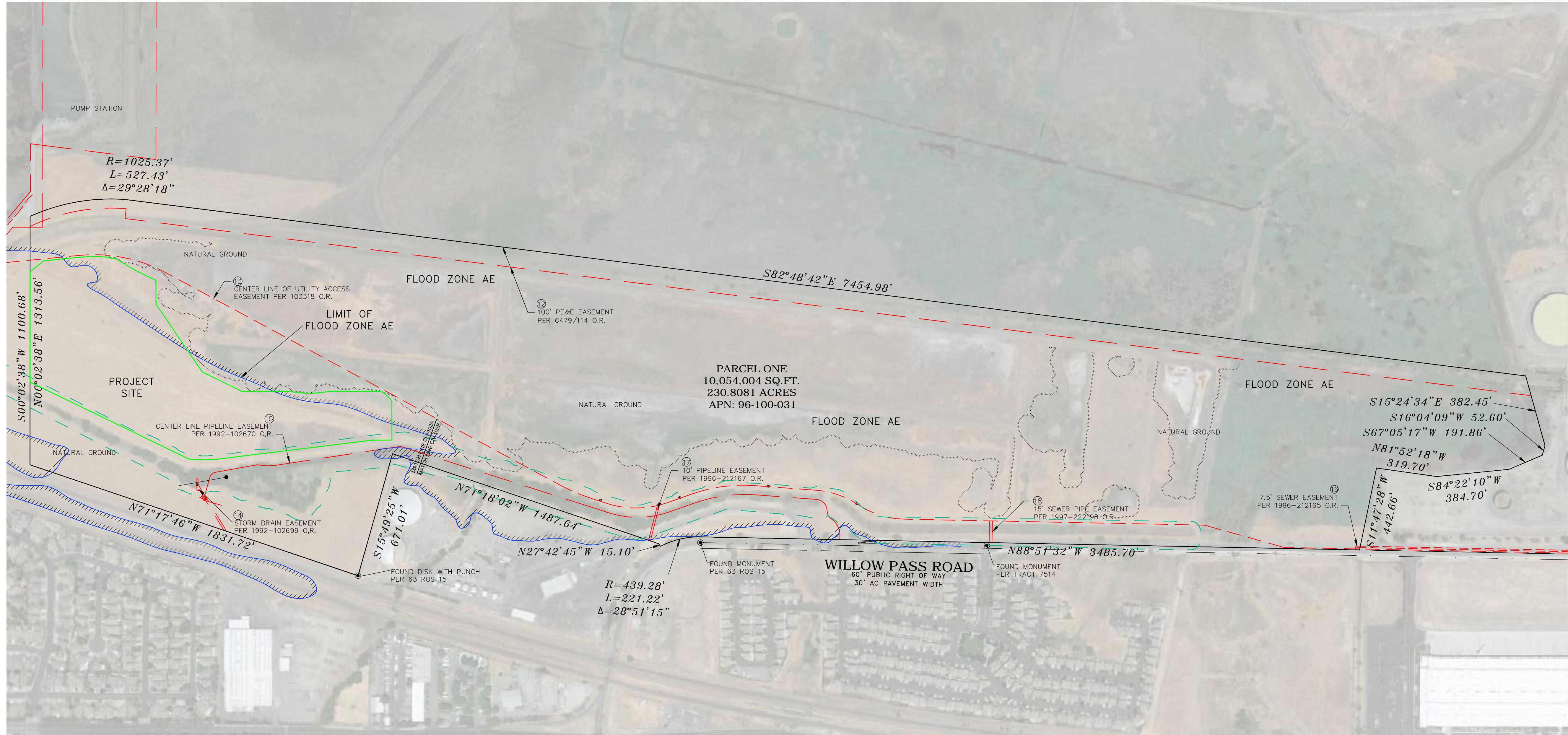
REV	DATE	DESCRIPTION	BY	CHKD	APP.
0	11/21/15	DESIGN REVIEW APPLICATION	SVH		

COVER SHEET
PROJECT: MALLARD SLOUGH 1 & 2 SOLAR PROJECTS APN 096-100-031 PITTSBURG, CA

TITLE:

ENGINEER: TRC SOLUTIONS, INC 9680 RESEARCH DRIVE RIVINE, CA 92618 PH: 949-727-9336 www.trcsolutions.com jstenger@trcsolutions.com	
---	--

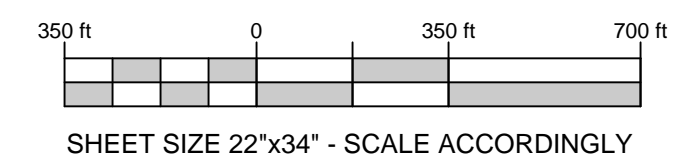
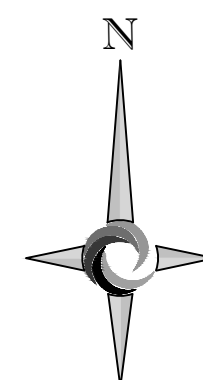
APPLICANT: NRG SOLAR DG, LLC 100 CALIFORNIA STREET, SUITE 650 SAN FRANCISCO, CA 94111 PH: 415-627-1646	SHEET NO. GEN-001
--	-----------------------------



FLOOD INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS LOCATED IN ZONE "UNSHADED X", "SHADED X" AND "ZONE AE" OF THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 06013C0116G AND 06013C0118G, WHICH BEAR AN EFFECTIVE DATES OF 9/30/2015 AND IS IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

ZONE "AE" DENOTES AREAS WITH 1% CHANCE OF FLOOD. ZONE AE BOUNDARY IS SHOWN IN THIS DRAWING WITH FLOODED SIDE HATCHED.

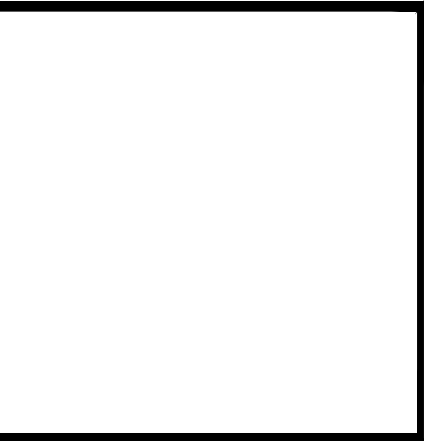


NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHKD	APP.
0	11/09/15	DESIGN REVIEW APPLICATION			

TITLE: **SITE PLAN**
EXISTING (BOUNDARY, EASEMENTS, & FLOODING)

PROJECT: **MALLARD SLOUGH 1 & 2 SOLAR PROJECTS**
 APN 096-100-031
 PITTSBURG, CA

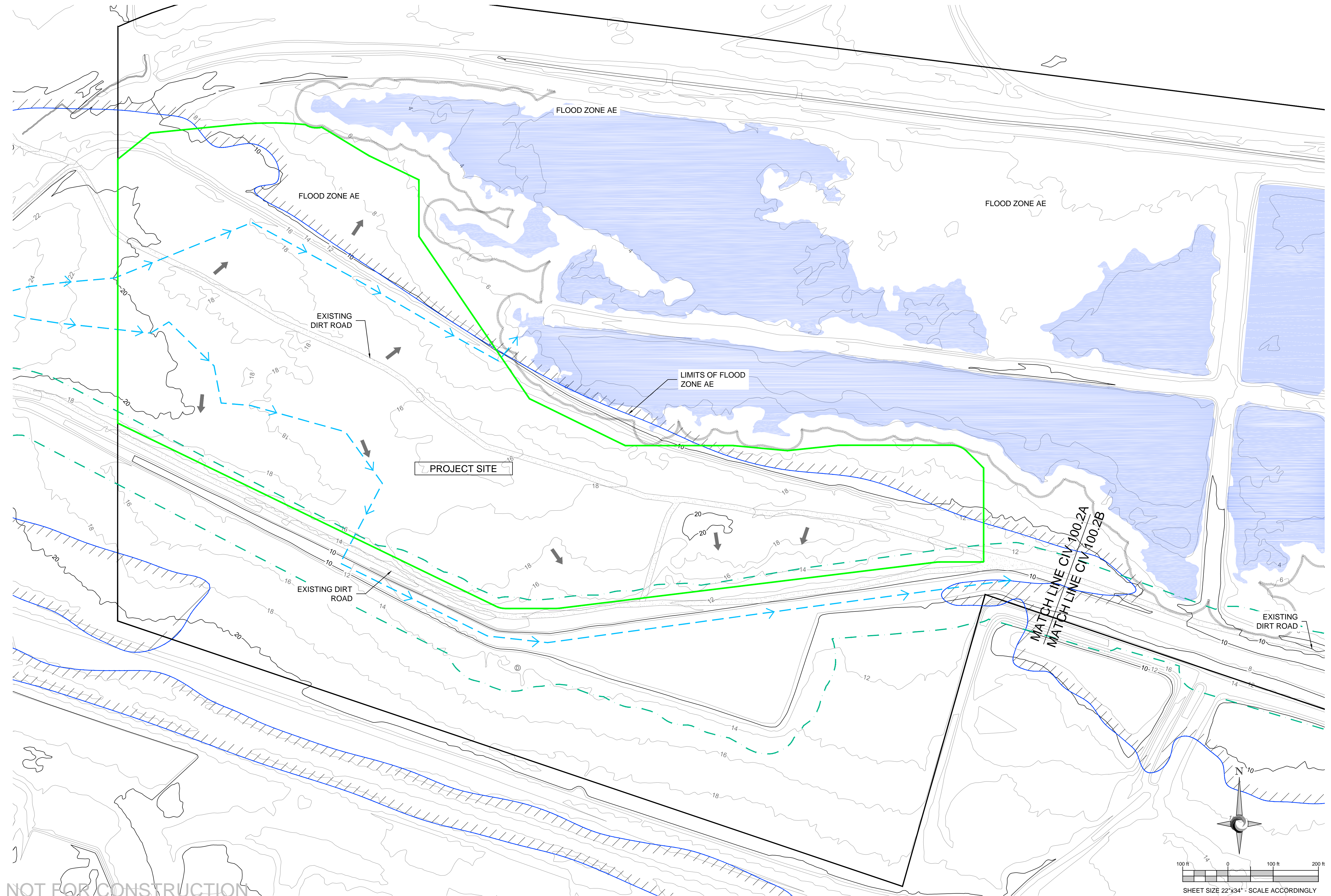


ENGINEER: **TRC SOLUTIONS, INC**
 9682 RESEARCH DRIVE
 RIVINE, CA 92618
 PH: 949-727-9338
 www.trcsolutions.com
 jstenger@trcsolutions.com



APPLICANT: **NRG SOLAR DC, LLC**
 100 CALIFORNIA STREET, SUITE 650
 SAN FRANCISCO, CA 94111
 PH: 415-627-1646

SHEET NO. **CIV-100.1**

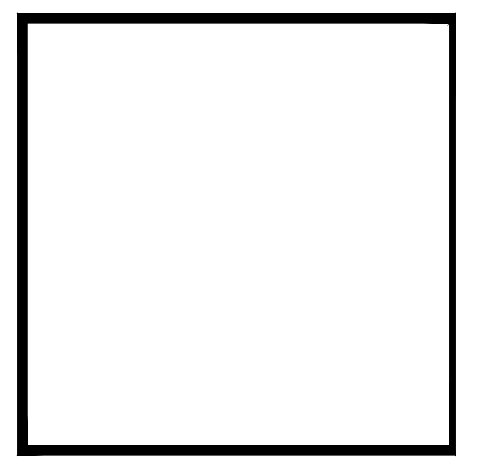


NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHKD	APP.
0	11/21/15	DESIGN REVIEW APPLICATION	SVH	JLS	

TITLE:
**SITE PLAN
 EXISTING (TOPOGRAPHY)**

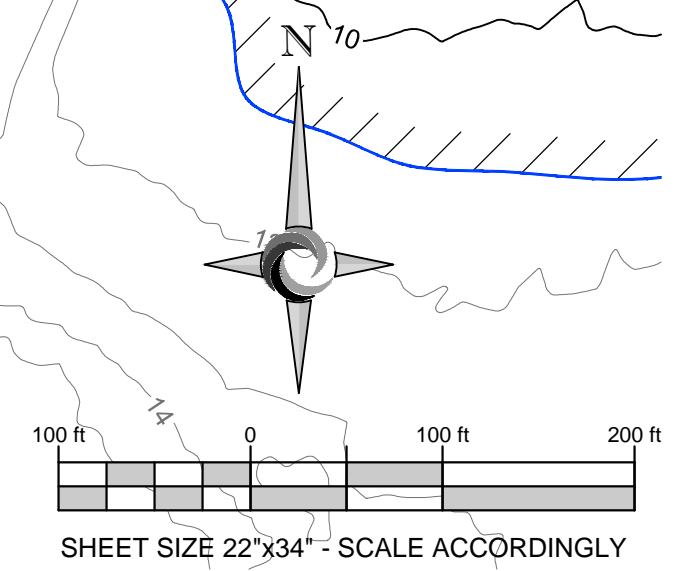
PROJECT:
MALLARD SLOUGH 1 & 2 SOLAR PROJECTS
 APN 096-100-031
 PITTSBURG, CA

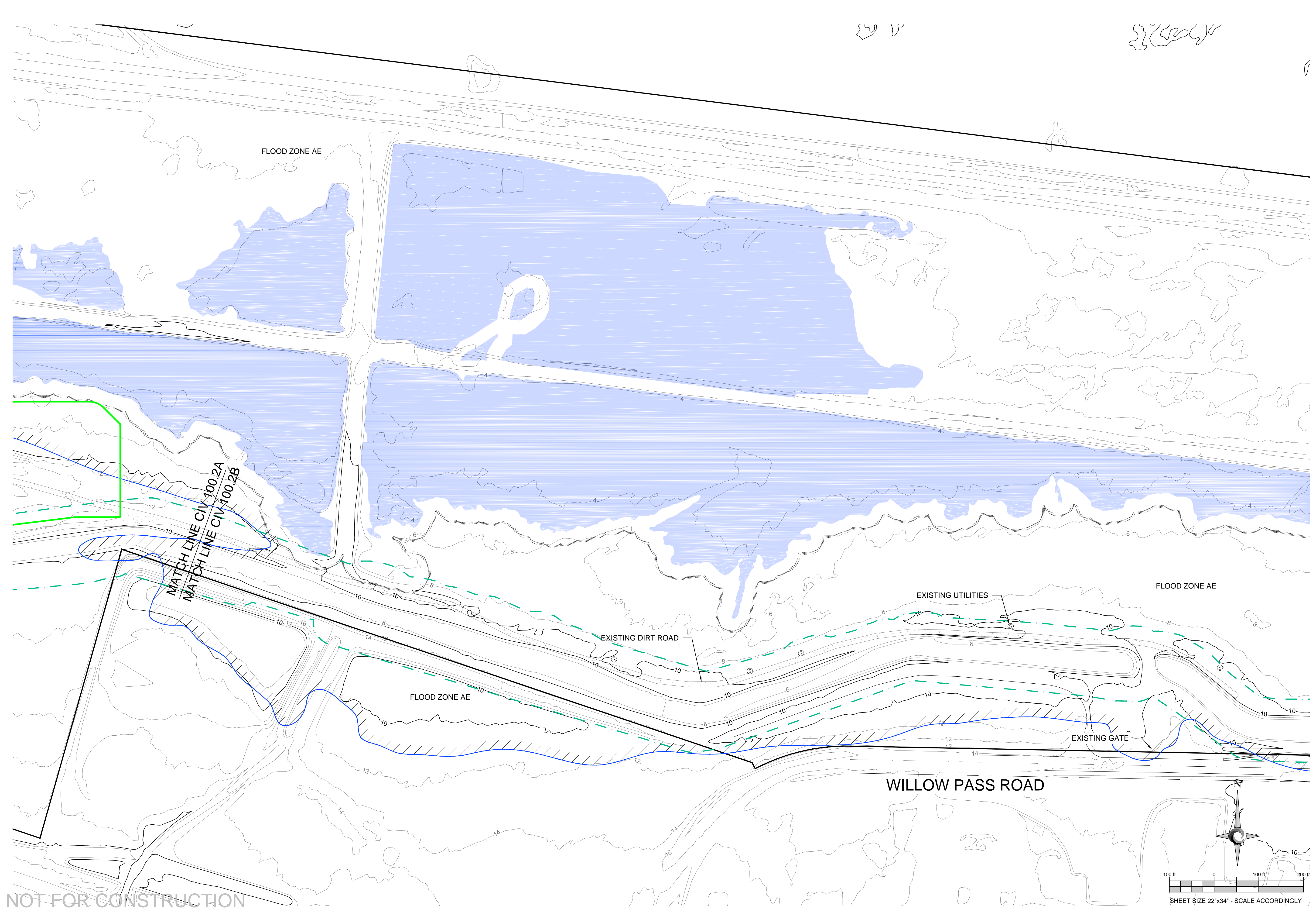


ENGINEER:
 TRC SOLUTIONS, INC
 9696 RESEARCH DRIVE
 RIVINE, CA 92518
 PH: 949-727-9338
 www.trcsolutions.com
 jstenger@trcsolutions.com

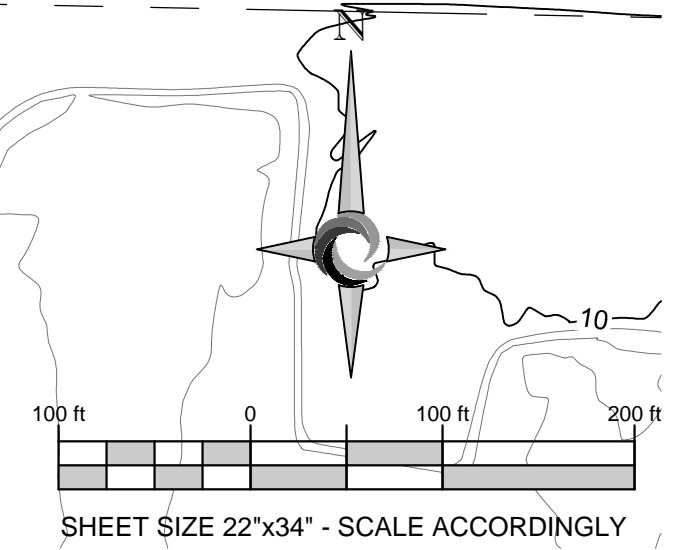
APPLICANT:
 NRG SOLAR DC, LLC
 100 CALIFORNIA STREET, SUITE 650
 SAN FRANCISCO, CA 94111
 PH: 415-627-1646

SHEET NO.
CIV-100.2A





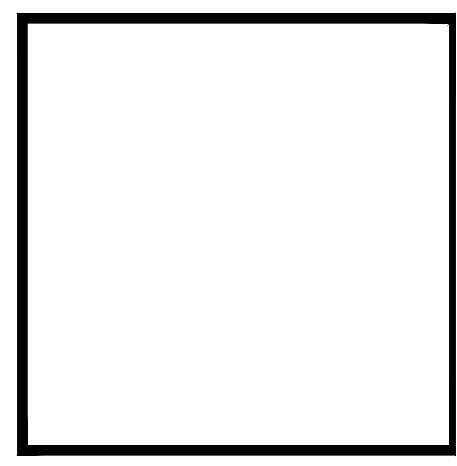
NOT FOR CONSTRUCTION



REV	DATE	DESCRIPTION	BY	CHKD	APP.
0	11/21/15	DESIGN REVIEW APPLICATION	SVH		

TITLE:
**SITE PLAN
 EXISTING (TOPOGRAPHY)**

PROJECT:
MALLARD SLOUGH 1 & 2 SOLAR PROJECTS
 APN 096-100-031
 PITTSBURG, CA

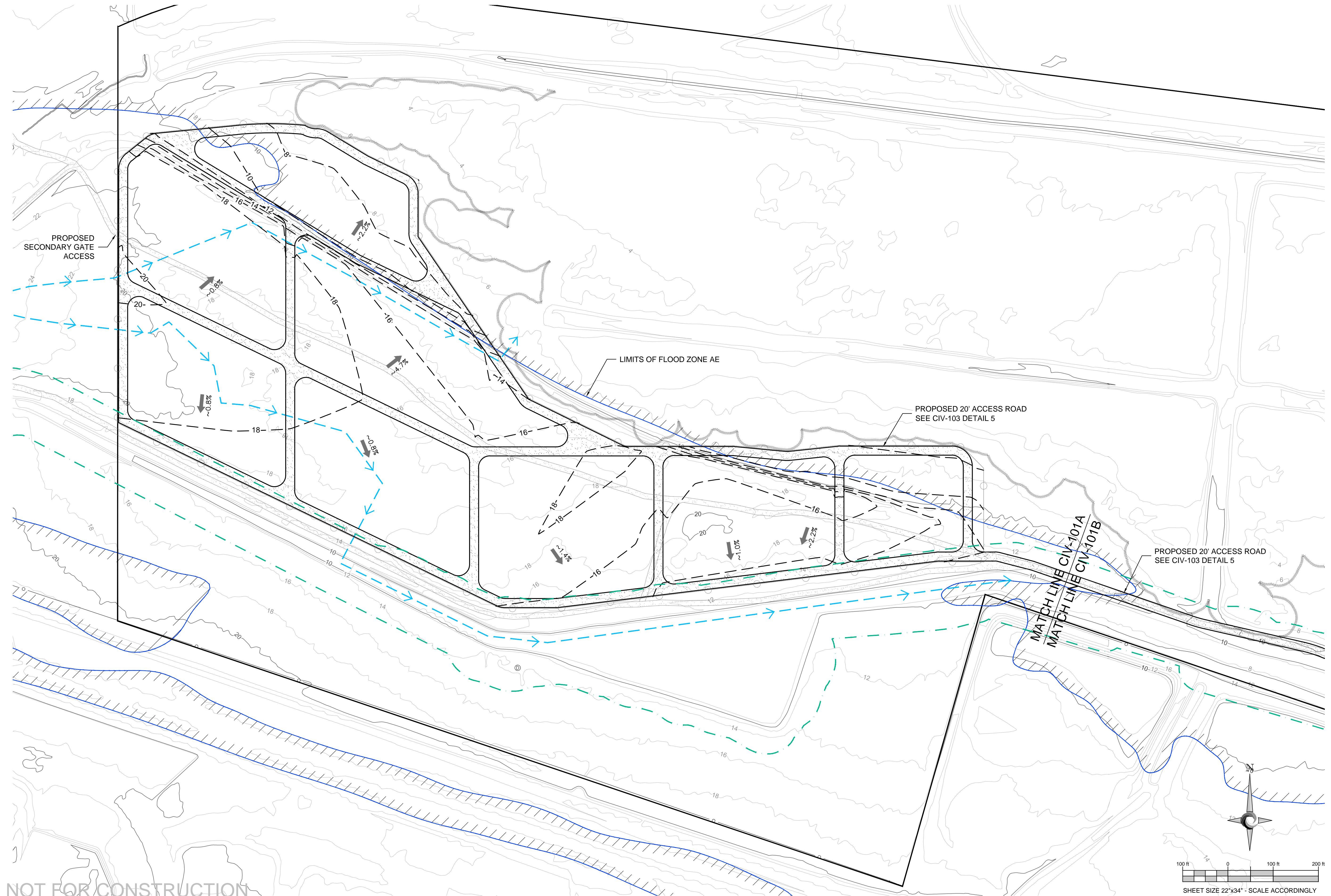


ENGINEER:
 TRC SOLUTIONS, INC
 9696 RESEARCH DRIVE
 RIVINE, CA 92686
 PH: 949-727-9336
 www.trcsolutions.com
 jstenger@trcsolutions.com



APPLICANT:
 NRG SOLAR DC, LLC
 100 CALIFORNIA STREET, SUITE 650
 SAN FRANCISCO, CA 94111
 PH: 415-627-1646

SHEET NO.
CIV-100.2B

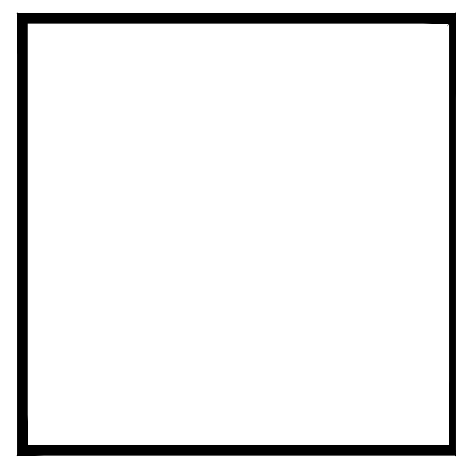


NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION	BY	CHKD	APP.
0	11/12/15	DESIGN REVIEW APPLICATION	SVH	JLS	

TITLE: **CONCEPTUAL GRADING AND DRAINAGE PLAN**

PROJECT: **MALLARD SLOUGH 1 & 2 SOLAR PROJECTS**
 APN 096-100-031
 PITTSBURG, CA



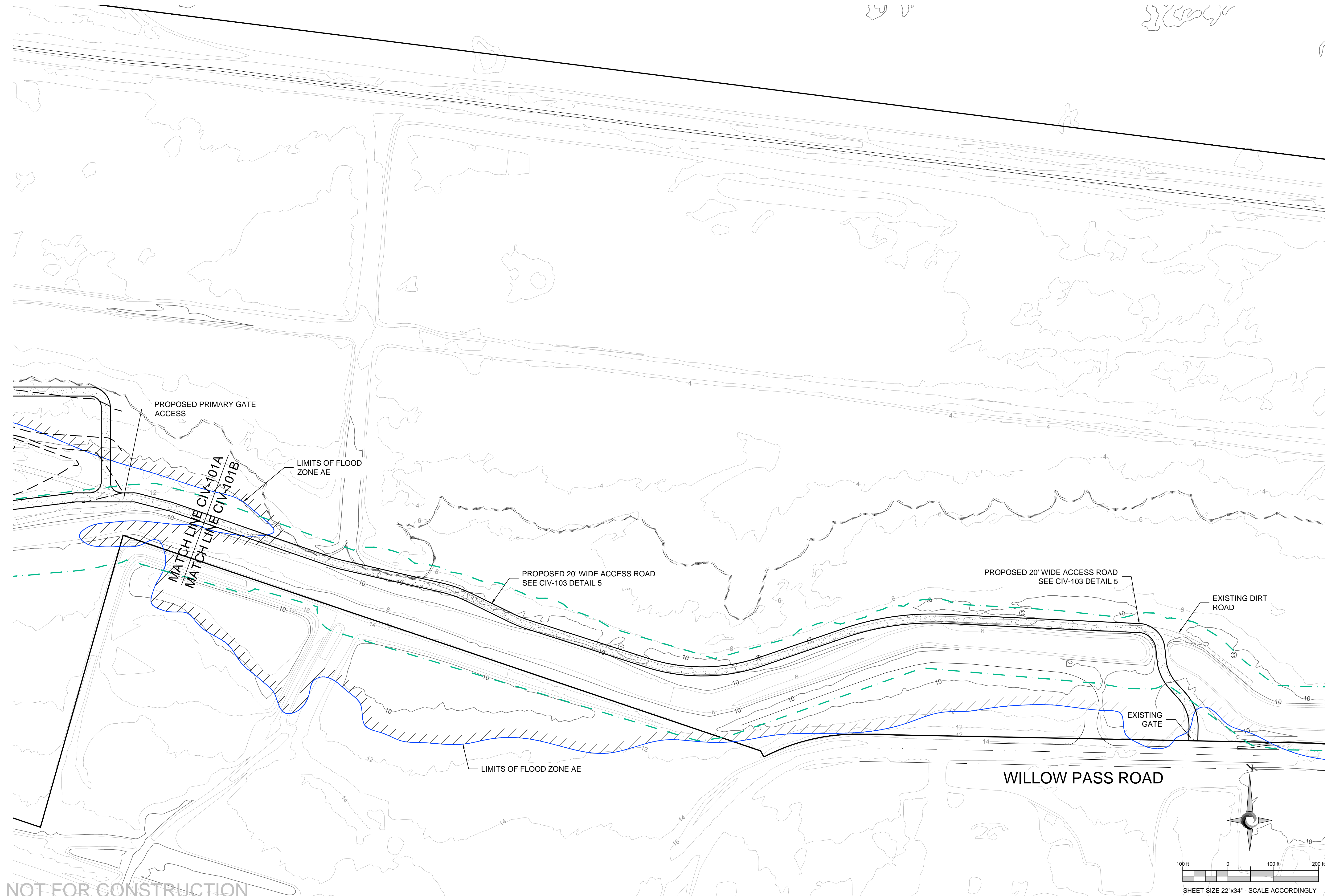
ENGINEER: **TRC SOLUTIONS, INC**
 9680 RESEARCH DRIVE
 RIVINE, CA 92518
 PH: 949-727-9338
 www.trcsolutions.com
 jstenger@trcsolutions.com

APPLICANT: **NRG SOLAR DC, LLC**
 100 CALIFORNIA STREET, SUITE 650
 SAN FRANCISCO, CA 94111
 PH: 415-627-1646

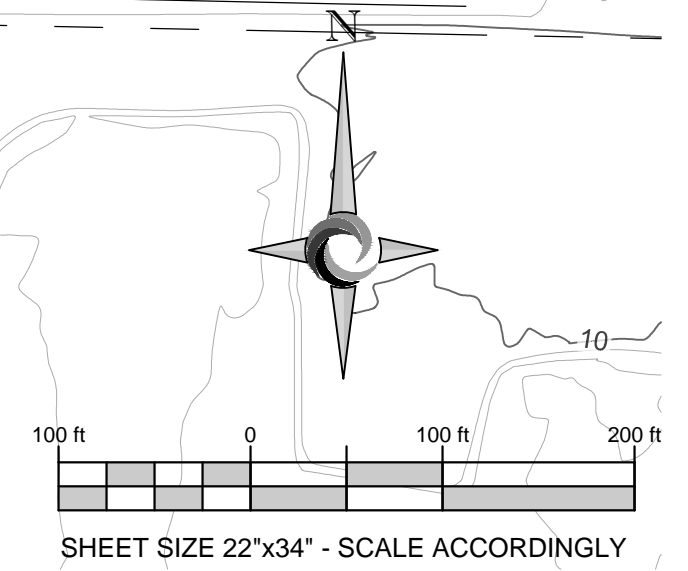
TRC

SHEET NO. **CIV-101A**

100 ft 0 100 ft 200 ft
 SHEET SIZE 22"x34" - SCALE ACCORDINGLY



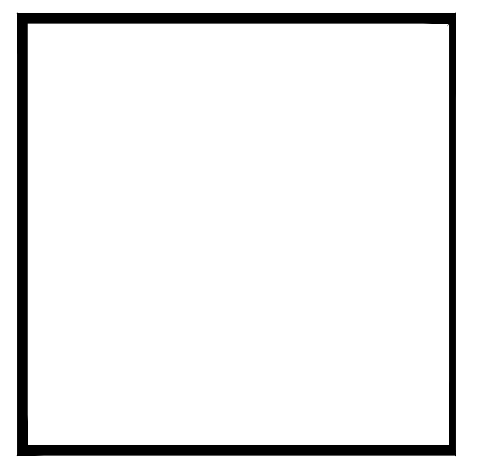
NOT FOR CONSTRUCTION



REV	DATE	DESCRIPTION	BY	CHKD	APP.
0	11/21/15	DESIGN REVIEW APPLICATION	SVH	JLS	

TITLE: **CONCEPTUAL GRADING AND DRAINAGE PLAN**

PROJECT: **MALLARD SLOUGH 1 & 2 SOLAR PROJECTS**
 APN 096-100-031
 PITTSBURG, CA

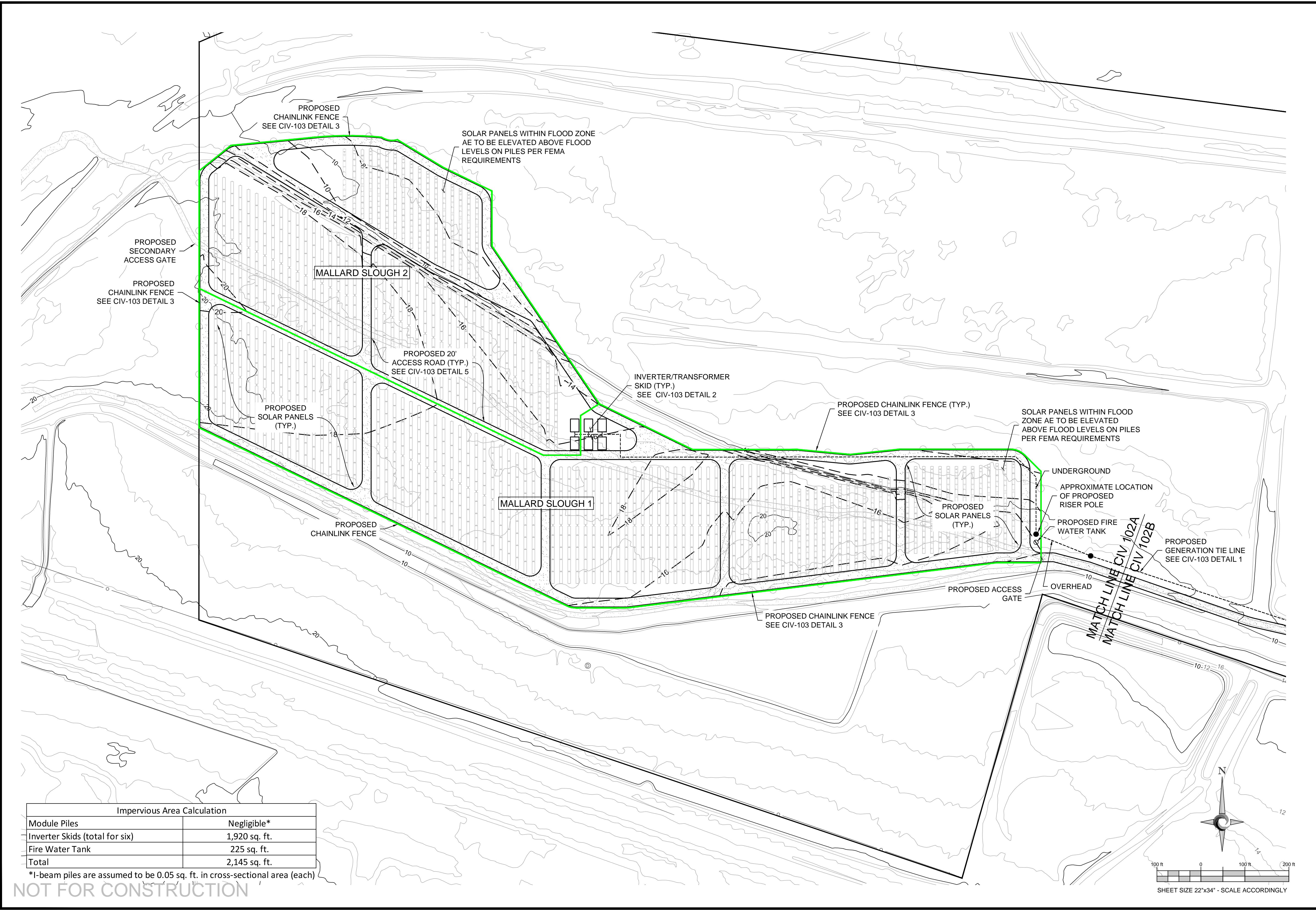


ENGINEER: **TRC SOLUTIONS, INC**
 9680 RESEARCH DRIVE
 RIVINE, CA 92686
 PH: 949-727-9336
 www.trcsolutions.com
 jstenger@trcsolutions.com

APPLICANT: **NRG SOLAR DC, LLC**
 100 CALIFORNIA STREET, SUITE 650
 SAN FRANCISCO, CA 94111
 PH: 415-627-1646

SHEET NO. **CIV-101B**

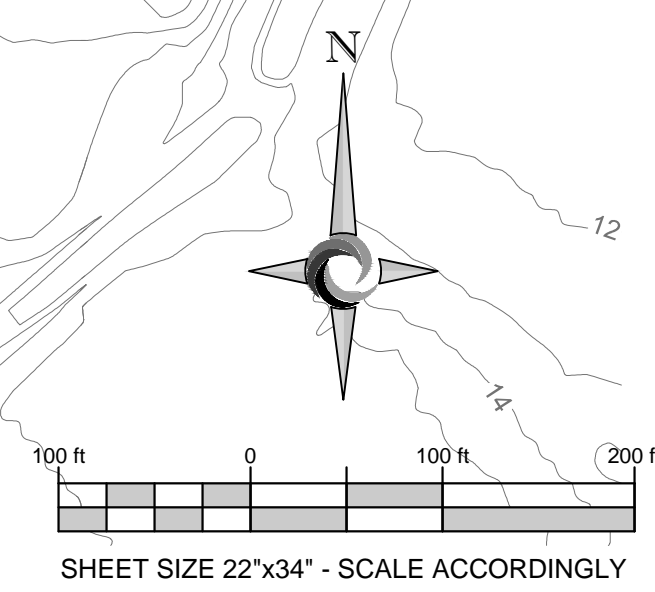




Impervious Area Calculation	
Module Piles	Negligible*
Inverter Skids (total for six)	1,920 sq. ft.
Fire Water Tank	225 sq. ft.
Total	2,145 sq. ft.

*1-beam piles are assumed to be 0.05 sq. ft. in cross-sectional area (each)

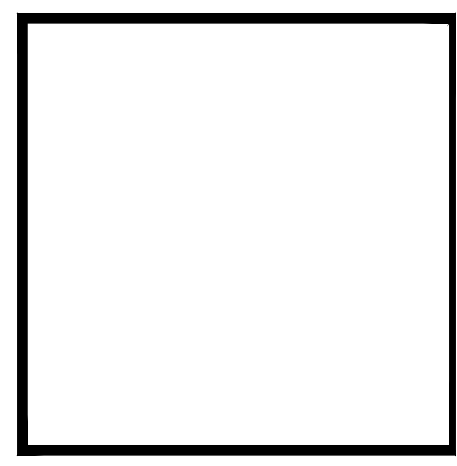
NOT FOR CONSTRUCTION



REV	DATE	DESCRIPTION	BY	CHKD	APP.
0	11/09/15	DESIGN REVIEW APPLICATION	SVH	JLS	

TITLE: **CONCEPTUAL SITE LAYOUT**

PROJECT: **MALLARD SLOUGH 1 & 2 SOLAR PROJECTS**
 APN 096-100-031
 PITTSBURG, CA

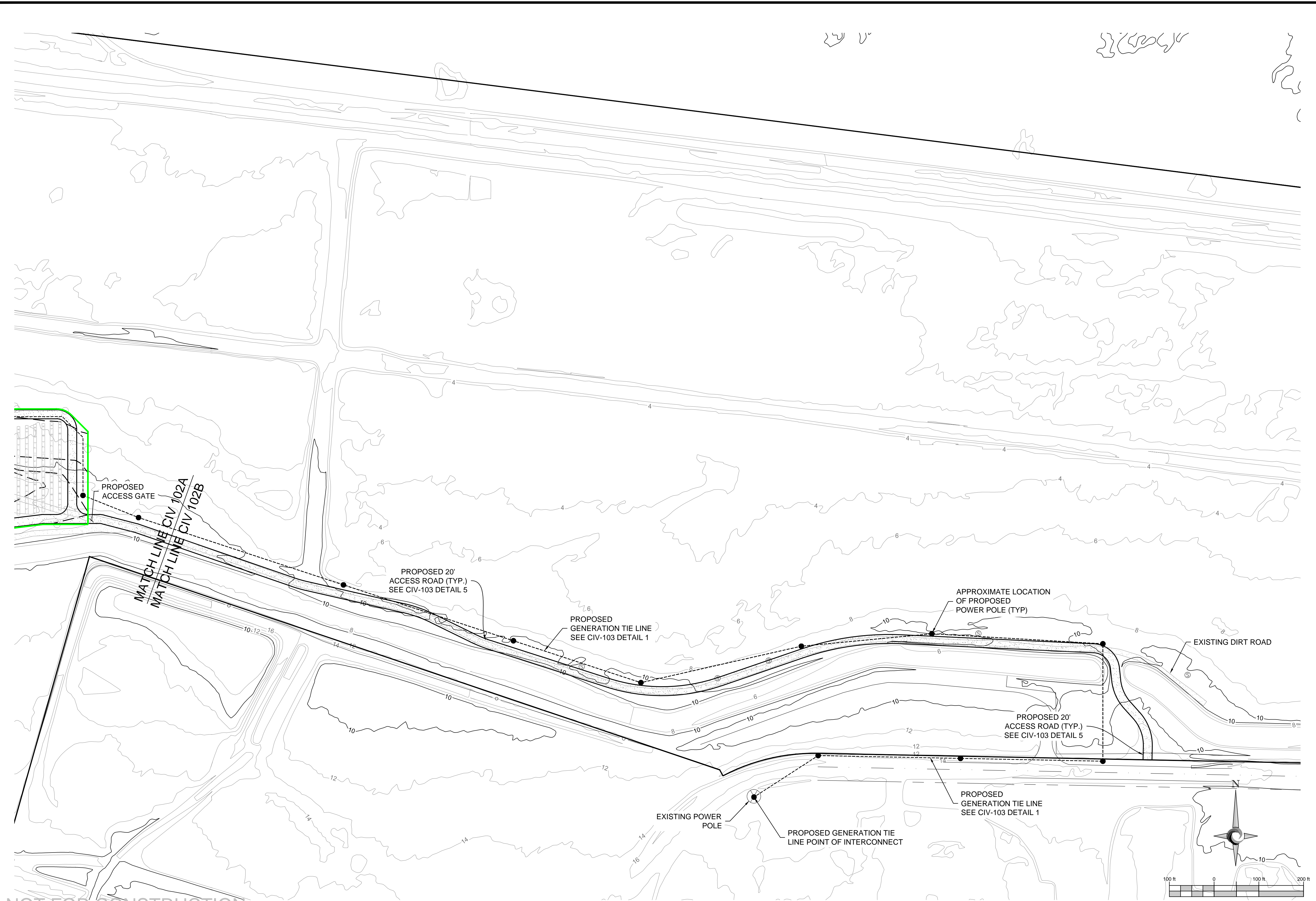


ENGINEER: **TRC SOLUTIONS, INC**
 9690 RESEARCH DRIVE
 RIVIERA, CA 92081
 PH: 949-727-9336
 www.trcsolutions.com
 jstenger@trcsolutions.com

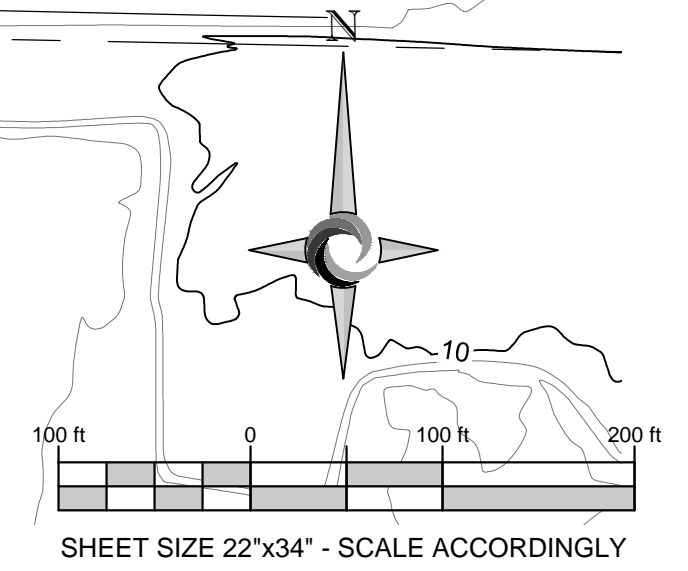
APPLICANT: **NRG SOLAR DC, LLC**
 100 CALIFORNIA STREET, SUITE 650
 SAN FRANCISCO, CA 94111
 PH: 415-627-1646

SHEET NO: **CIV-102A**





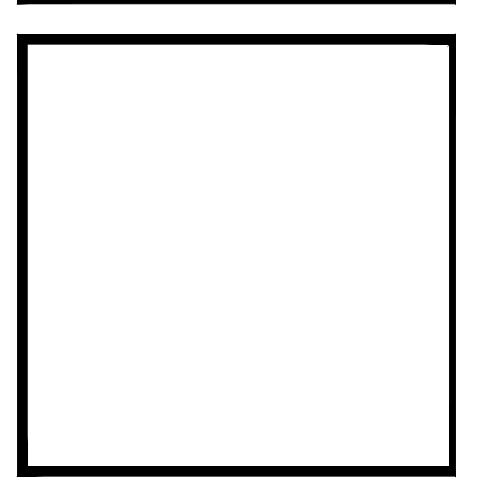
NOT FOR CONSTRUCTION



REV	DATE	DESCRIPTION	BY	CHKD	APP.
0	11/21/15	DESIGN REVIEW APPLICATION	SVH	JLS	

TITLE: **CONCEPTUAL SITE LAYOUT**

PROJECT: **MALLARD SLOUGH 1 & 2 SOLAR PROJECTS**
 APN 096-100-031
 PITTSBURG, CA

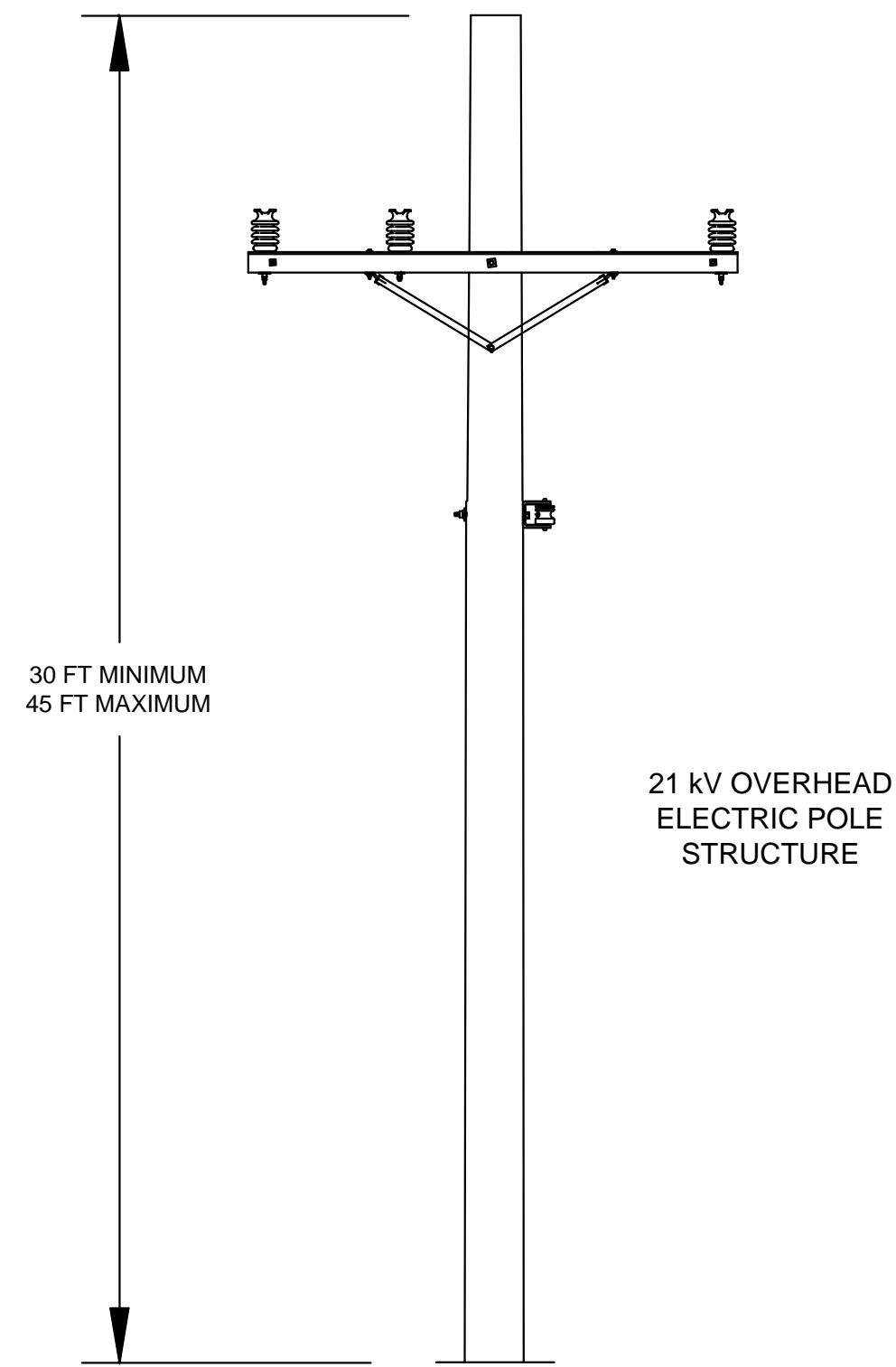


ENGINEER: **TRC SOLUTIONS, INC**
 9690 RESEARCH DRIVE
 RIVINE, CA 92688
 PH: 949-727-9338
 www.trcsolutions.com
 jstenger@trcsolutions.com

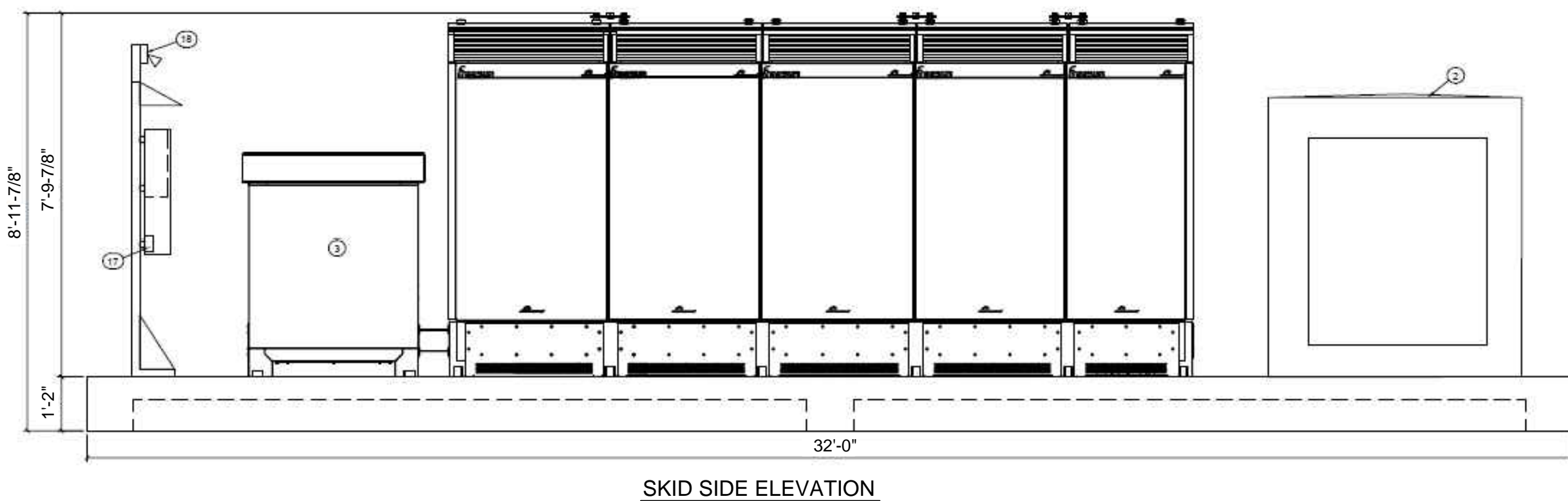
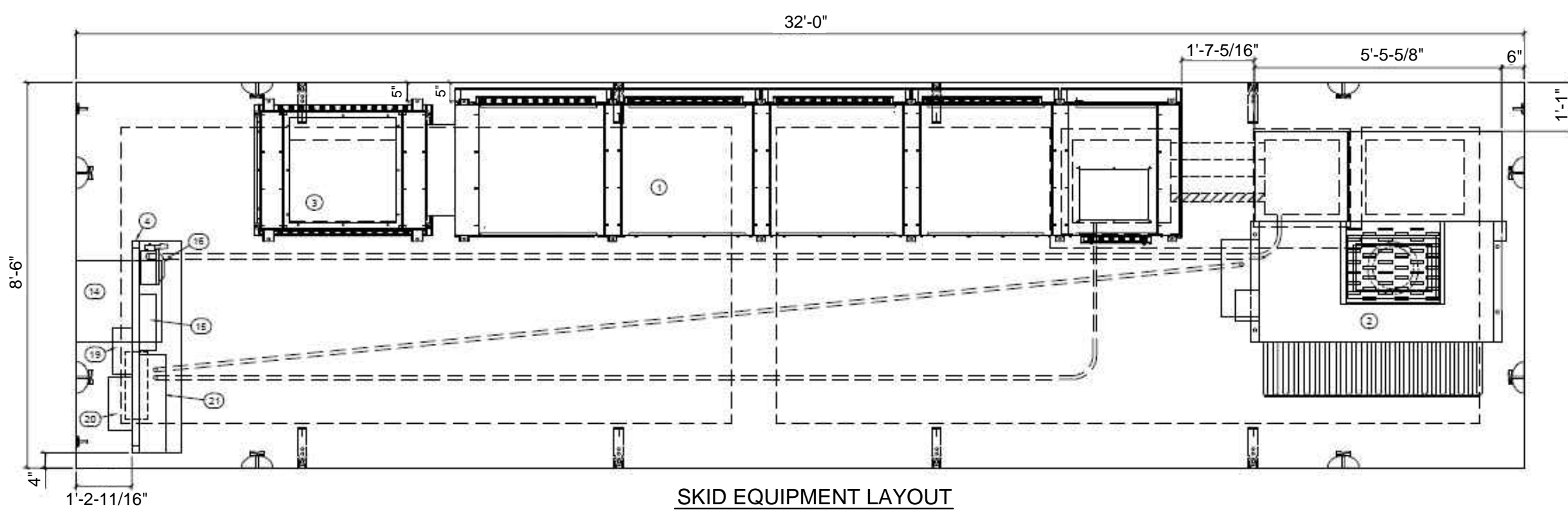
APPLICANT: **NRG SOLAR DC, LLC**
 100 CALIFORNIA STREET, SUITE 650
 SAN FRANCISCO, CA 94111
 PH: 415-627-1646

SHEET NO. **CIV-102B**

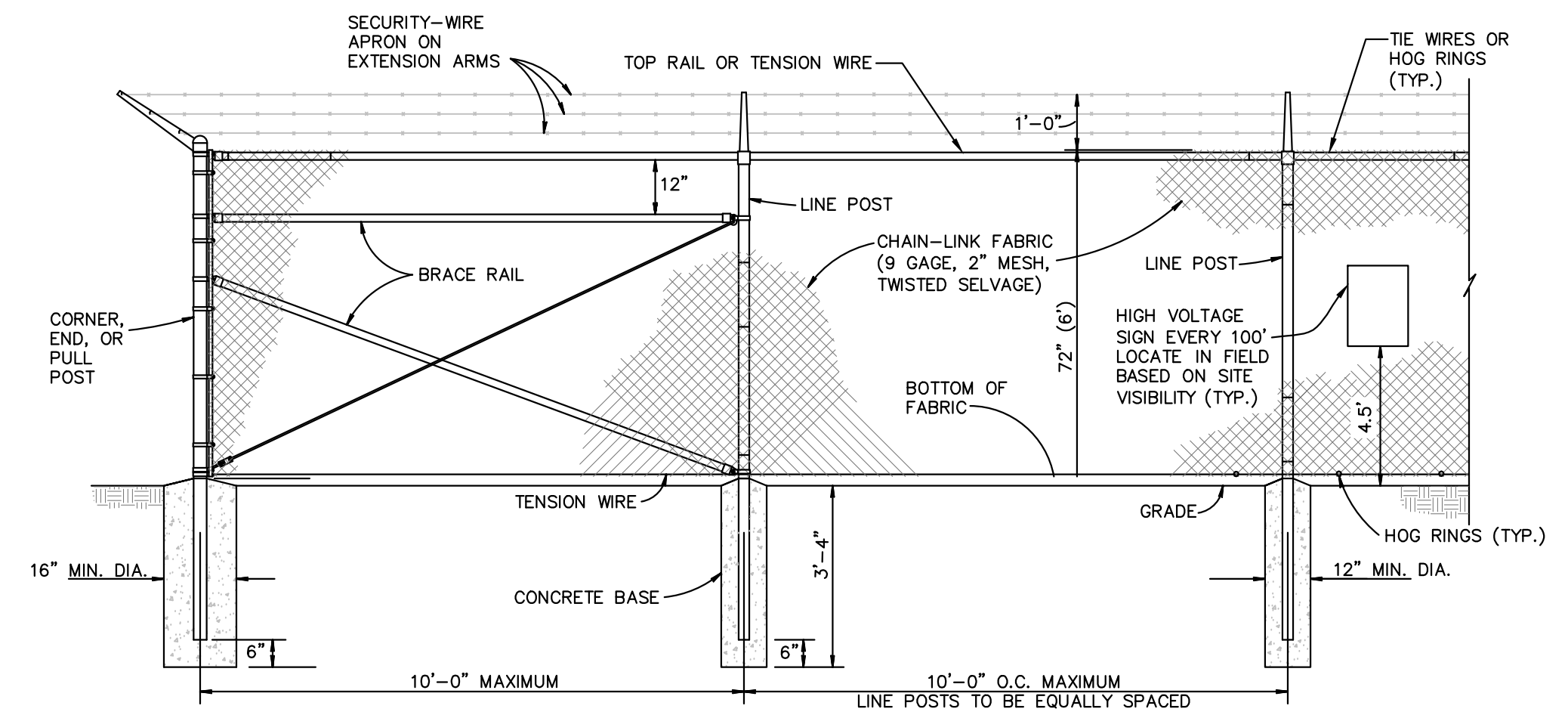
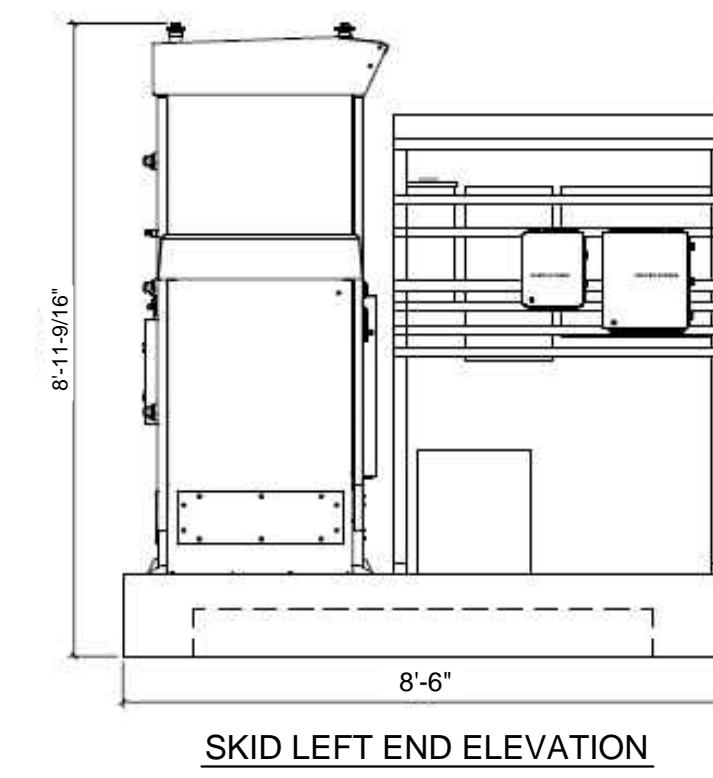
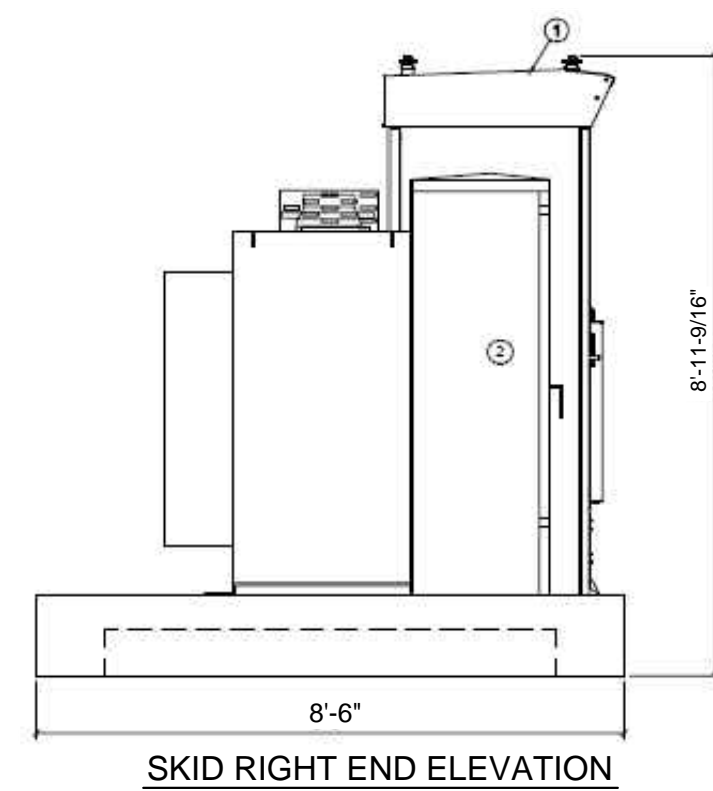




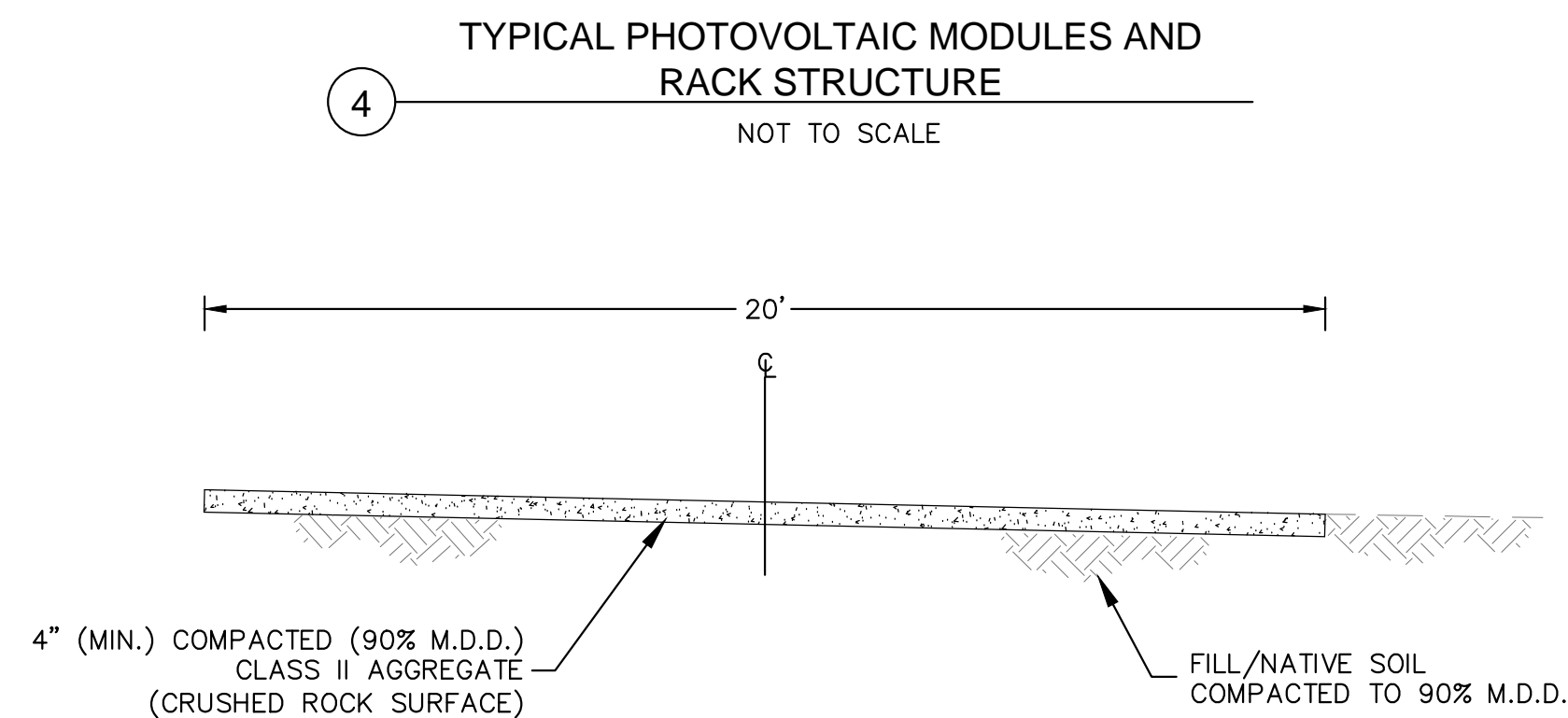
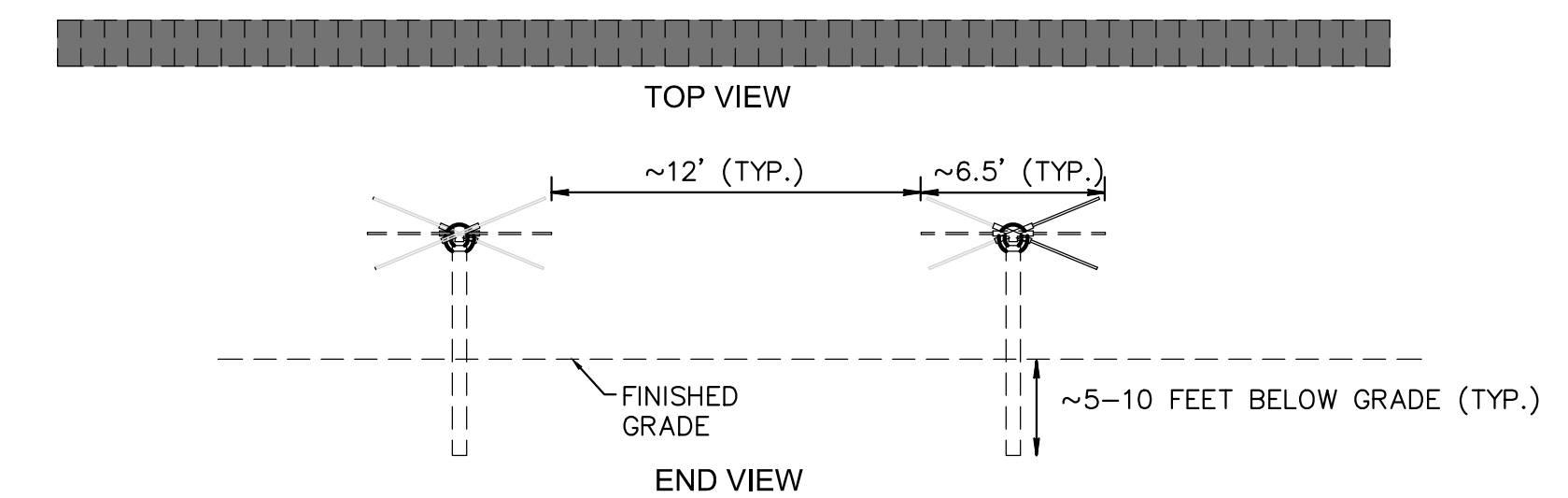
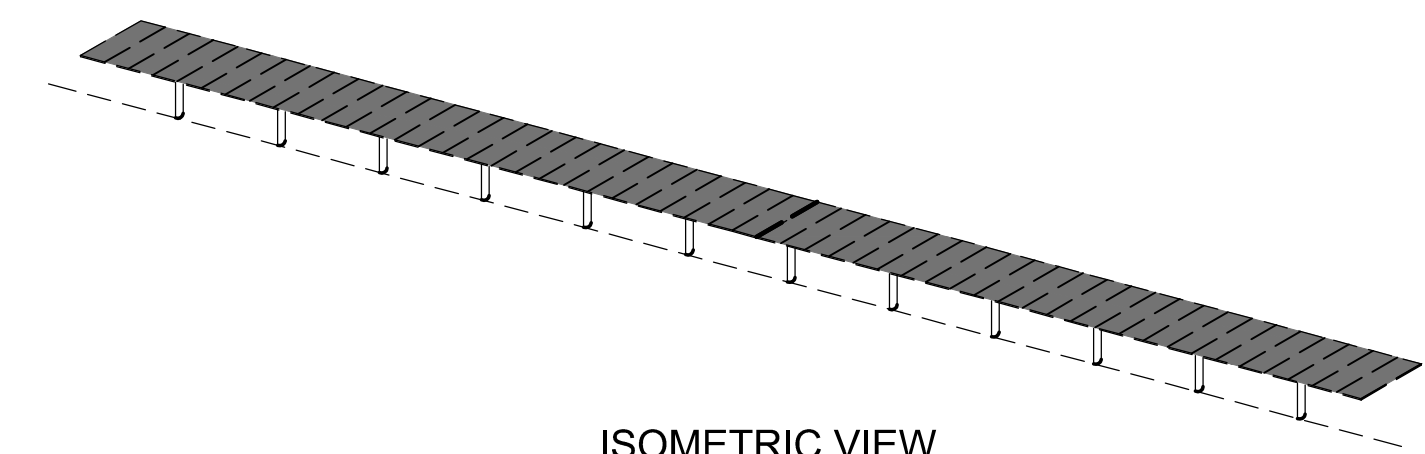
1 EXAMPLE GENERATION TIE LINE STRUCTURE



2 EXAMPLE AC INVERTER EQUIPMENT ENCLOSURE
NOT TO SCALE



3 CHAIN LINK FENCE DETAIL (TYP.)
NOT TO SCALE



4 TYPICAL PHOTOVOLTAIC MODULES AND RACK STRUCTURE
NOT TO SCALE

5 20' ACCESS ROAD SECTION
NOT TO SCALE

REV	DATE	DESCRIPTION	BY	CHKD	APP.
0	11/21/15	DESIGN REVIEW APPLICATION			

TITLE:	PROJECT:
DETAILS	MALLARD SLOUGH 1 & 2 SOLAR PROJECTS
	APN 096-100-031
	PITTSBURG, CA

ENGINEER:
TRC SOLUTIONS, INC 9690 RESEARCH DRIVE RYLAND, CA 92618 PH: 949-727-9336 www.trcsolutions.com jstenger@trcsolutions.com

APPLICANT:
NRG SOLAR DC, LLC 100 CALIFORNIA STREET, SUITE 650 SAN FRANCISCO, CA 94111 PH: 415-627-1646

SHEET NO.
CIV-103

NOT FOR CONSTRUCTION