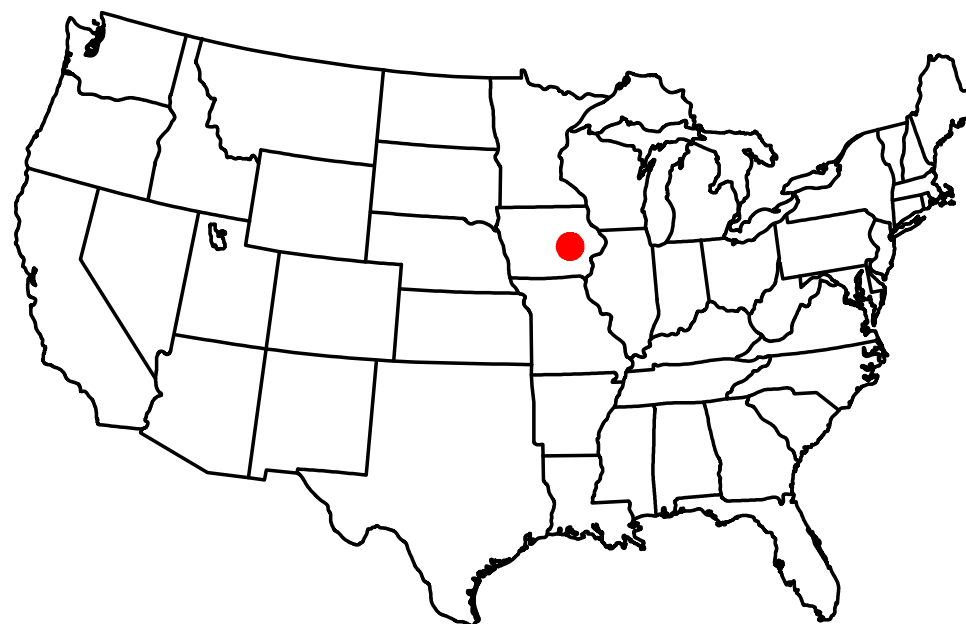
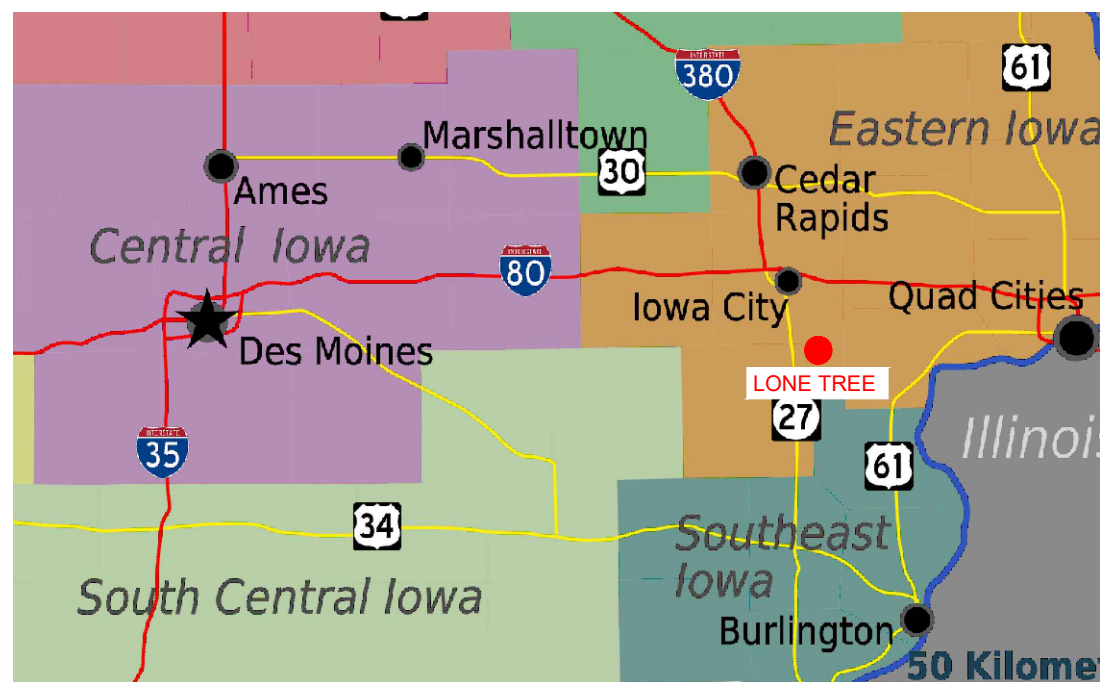


LONE TREE PROJECT

Lone Tree, IOWA

SITE PLAN

Lone Tree Solar Project				
MW ac	MW dc	ratio	MWh/y	Acres
10,00	11,81	1,18	20209	50



Contact Information			
Mariano Brandi	CEO	mbrandi@pcr.energy	PCR US Houston Office (832) 955 1979 – 1334 Brittmoore Rd, Suit 2407 Houston, TX 77043 – www.pcr.energy/en
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Rev.	Date (MM/DD/YY)	COMMENTS
04		
03	12/15/22	Access update
02	11/02/22	PVcase update
01	08/11/22	Georef update
00	06/14/22	Preliminary

REVISIONS	
Project:	LONE TREE
Sector:	JOHNSON, IOWA, USA
Owner:	PCR INVESTMENTS SP2 LLC
Title:	SITE PLAN
Utility:	CIPCO
File:	Site Plan Lone Tree.dwg

Sheet:	01/07
Scale:	
Rev:	



- ◇ Boundaries (approx. 50ac)
- ▭ 1V54 Tracker
- ▭ 1V27 Tracker
- MV Station
- MV Underground cable 12.47 kV
- Wetlands
- Internal Roads

SOLAR PANEL	
Brand	ZNshine Solar
Model	ZXM7-SHLDD-144-550
Power	550 Wp - Bifacial
Dimensions (W x L x D)	1134 x 2278 x 30 mm
INVERTER	
Brand	SMA
Model	Sunny Highpower SHP125-US-20-PEAK3
Power	125 kW
Output Voltage	480 V
LV Cables (INV - TR)	
Model	EXZHELLENT COMPACT 1000V Prysmian
Type	0,6/1,1kV Cu 3x2/OAWG XLPE
Section	2/0 AWG
Rate Current	167 A
R	0,16 ohm/km
V/A km	0,34
MV Cables (TR - SW)	
Type*	12.5 kV Al 3x1x250MCM XLPE
Section*	250 MCM
Rate Current MVS 1 2 3 4	120 240 360 480 A
R	0,568 ohm/km
X	0,194 ohm/km
B	0,156 mF/km
Length MV 1 2 3 4	444 443 416 47 ft
COMPONENTS	
Total Inverters	84
Total Trackers 1 2	361 73
Total Modules	21465

*NOTE: MV Underground Cable Gauge TBD

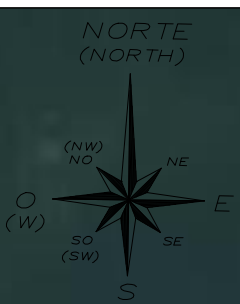
POINT	LAT	LONG
A	41,49670229	-91,48829677
B	41,49670967	-91,48362429
C	41,49698140	-91,48355875
D	41,50132142	-91,48348547
E	41,50131371	-91,48821947



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REVISIONS

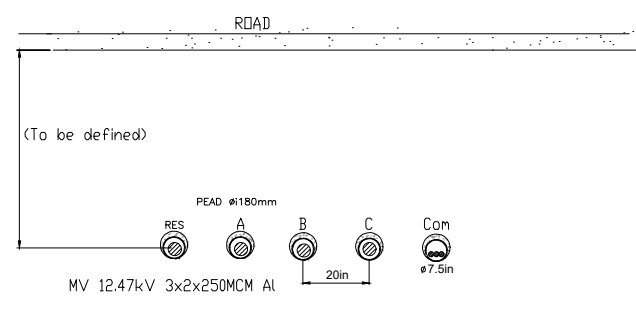
Project:	LONE TREE
Sector:	JOHNSON, IOWA, USA
Owner:	PCR INVESTMENTS SP2 LLC
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Rev:	

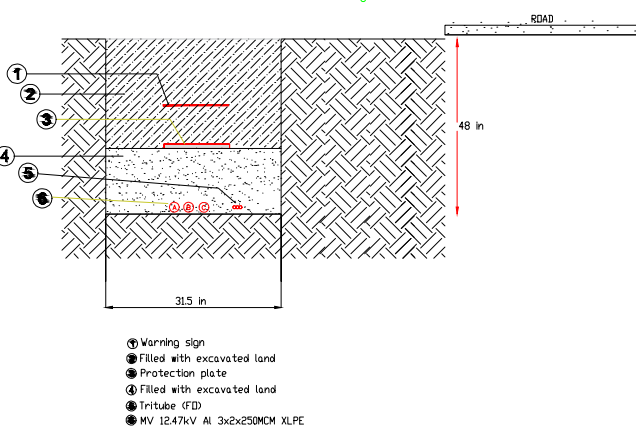


 Boundaries Lone Tree CIPCO
 MV Underground cable 12.47 kV

DETAIL - ROAD CROSS



DETAIL




MV Cables (Interconnection)	
Type*	12.5kV Al 3x2x250MCM XLPE
Section*	250 MCM
Rate Current	480 A
R	0,211 ohm/km
X	0,175 ohm/km
B	0,212 mF/km
Length	0.18 miles
Power Factor @POI	95%

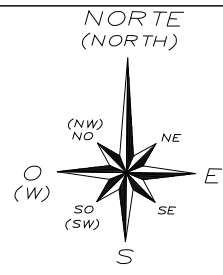
POI
CIPCO SS

*NOTE: MV Underground Cable Gauge TBD

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REVISIONS	
	

Project:	LONE TREE	Sheet:	03/07
Sector:	JOHNSON, IOWA, USA	Scale:	Rev:
Owner:	PCR INVESTMENTS SP2 LLC		
Title:	SITE PLAN		
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File:	Site Plan Lone Tree.dwg		



Pv Buildable Area

Angle min., °	Angle max., °	Distribution, %	Color
0.00	0.00	10.31	Dark Green
0.00	1.75	84.08	Green
1.75	3.50	4.14	Light Green
3.50	5.25	0.99	Yellow-Green
5.25	7.00	0.30	Yellow
7.00	8.75	0.11	Light Yellow
8.75	10.50	0.06	Orange
10.50	12.25	0.02	Red-Orange
12.25	14.00	0.00	Red
14.00	55.00	0.00	Dark Red

GCR	
Buildable Area 1	32.40%
Buildable Area 2	29.03%
Total	30.71%

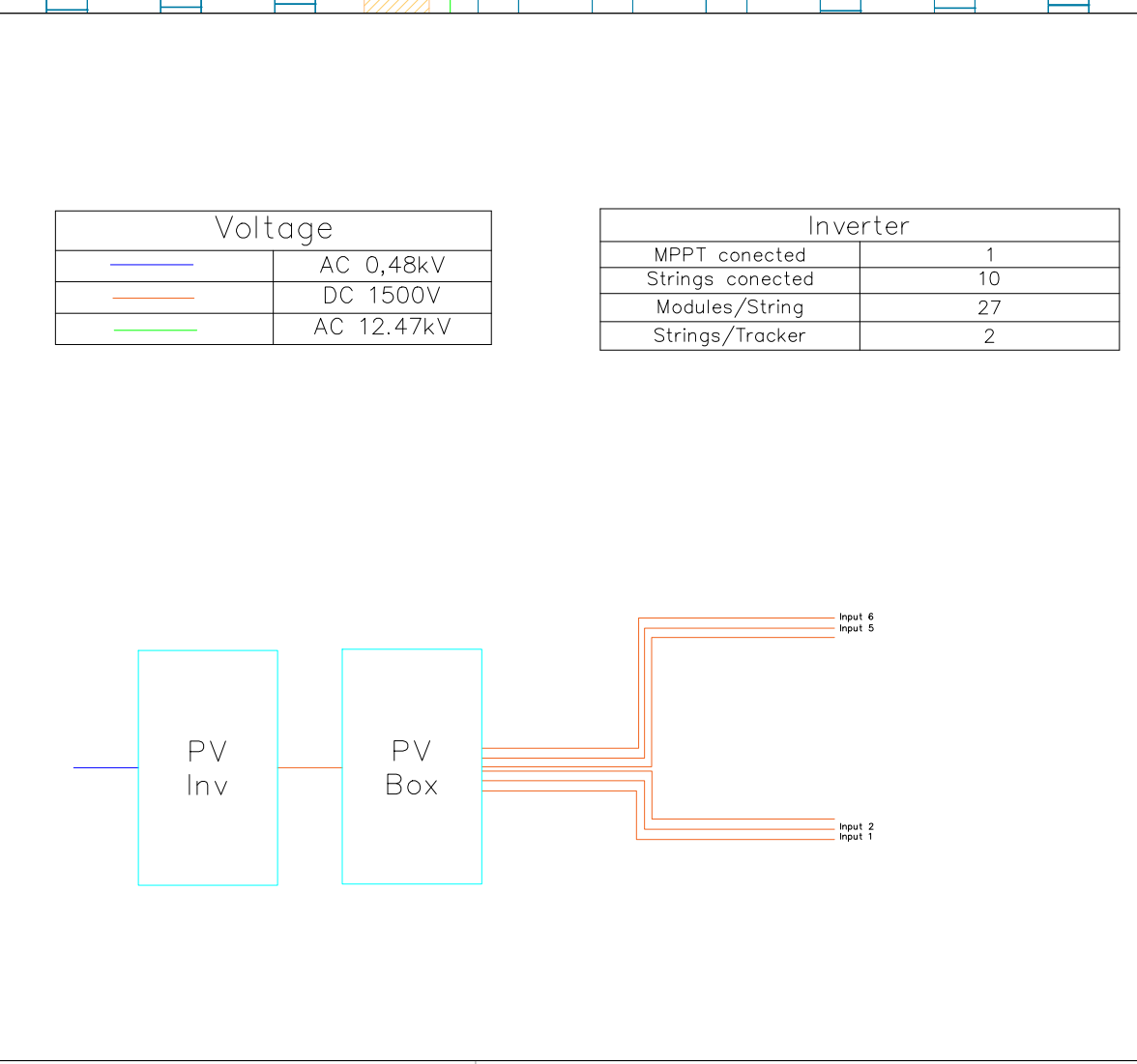
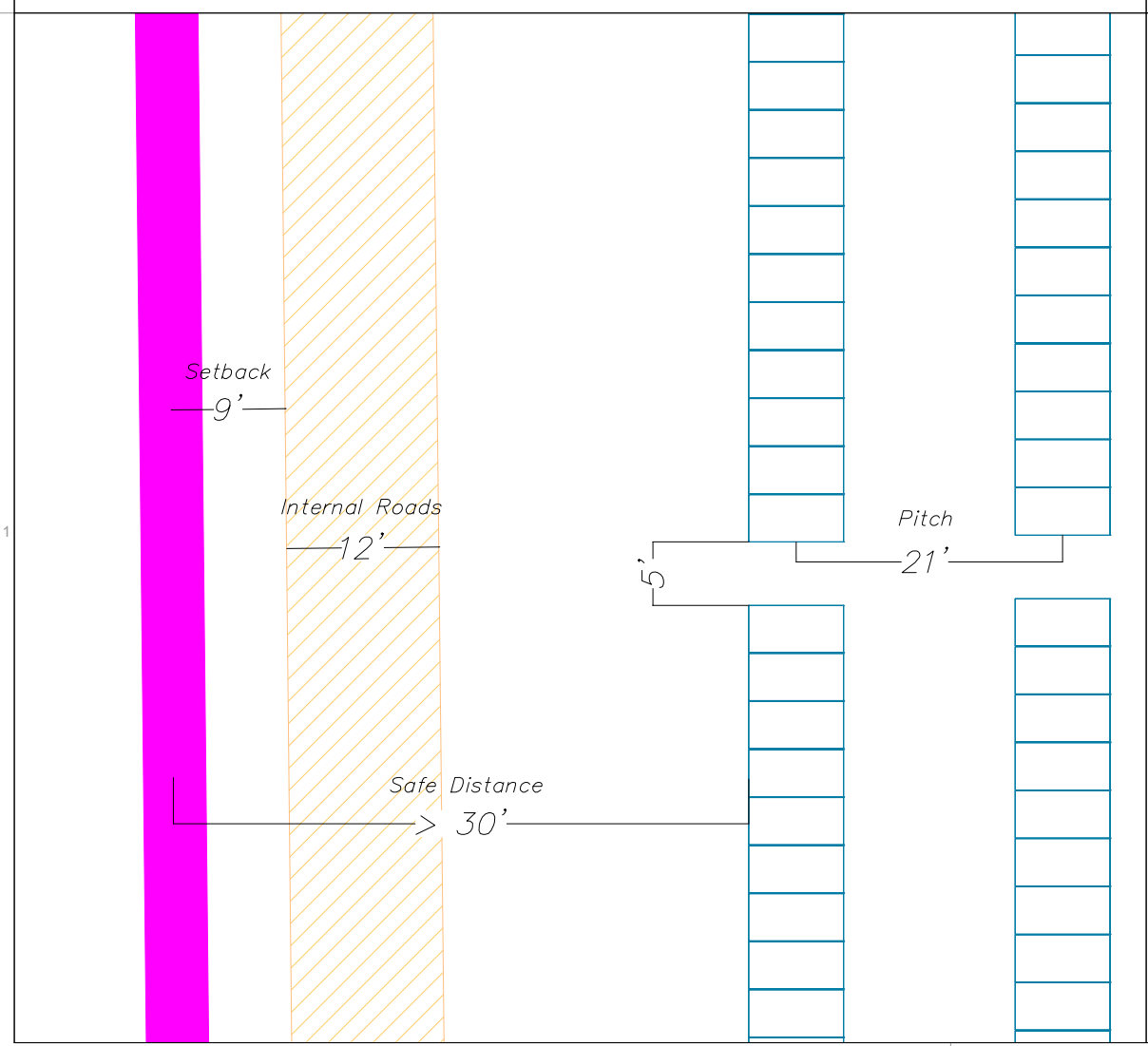
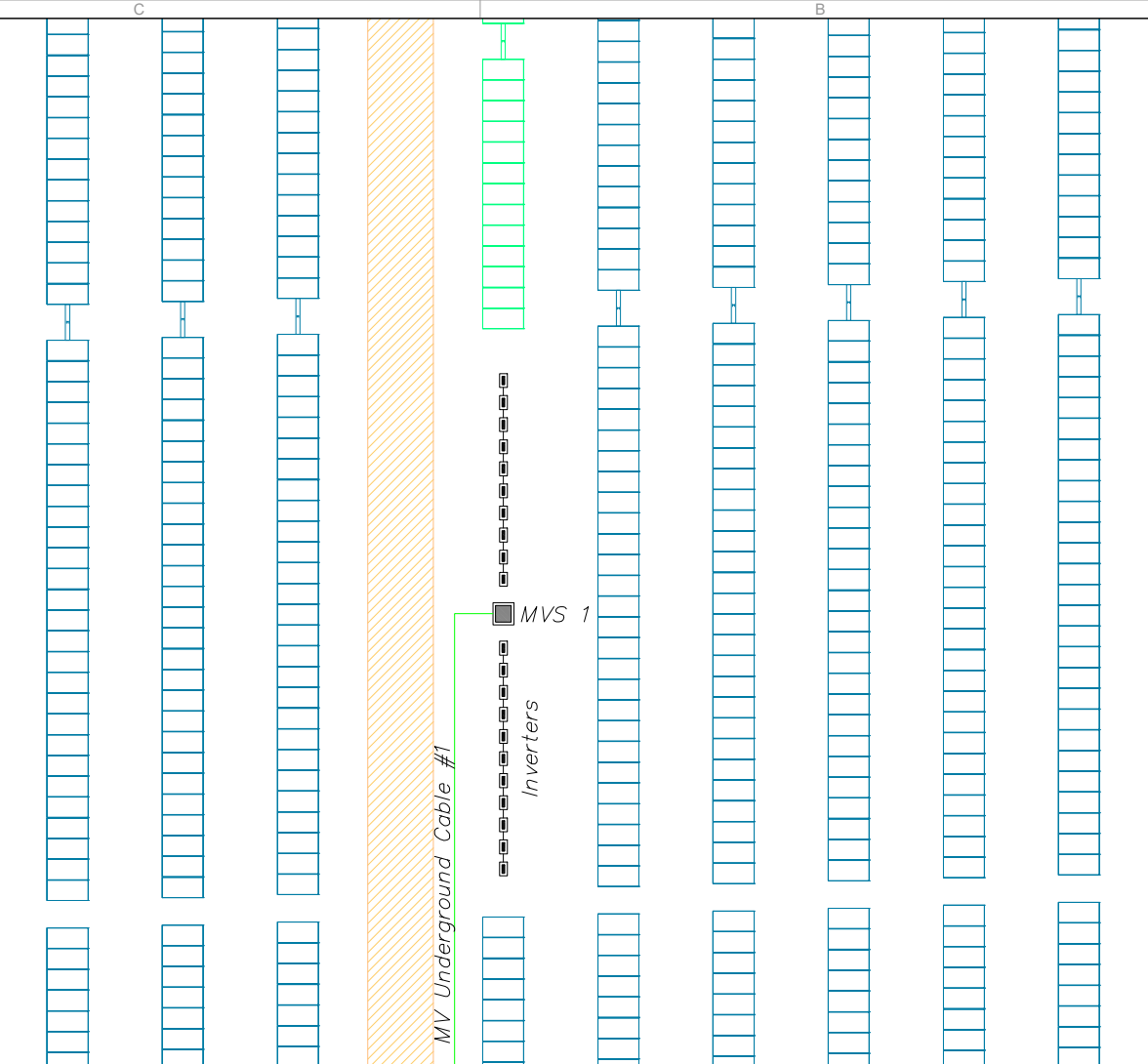
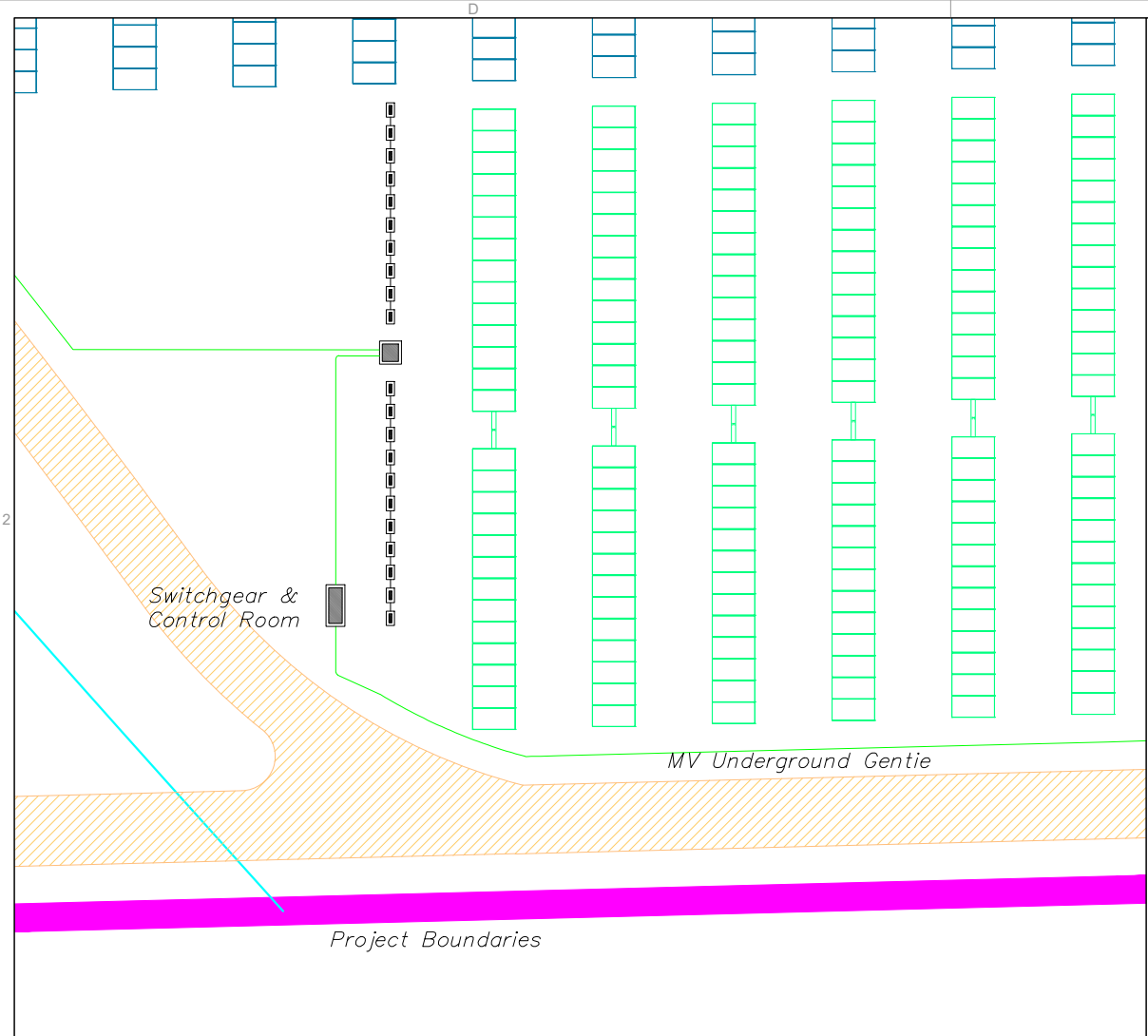
PITCH 21 ft

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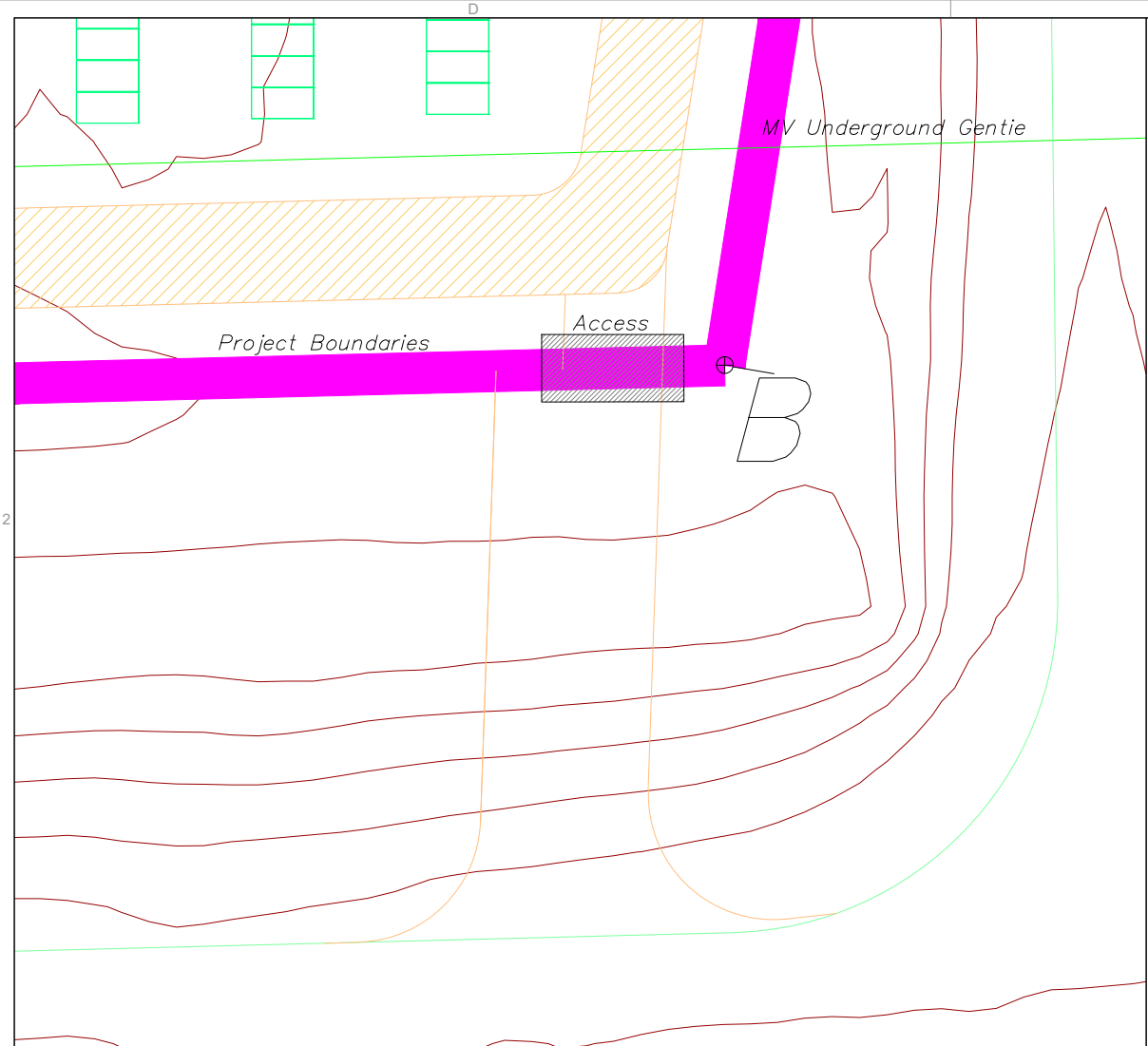
Project:	LONE TREE		
Sector:	JOHNSON, IOWA, USA		
Owner:	PCR INVESTMENTS SP2 LLC		
Title:	SITE PLAN	Sheet:	04/07
Utility:	CIPCO	Scale:	Rev:
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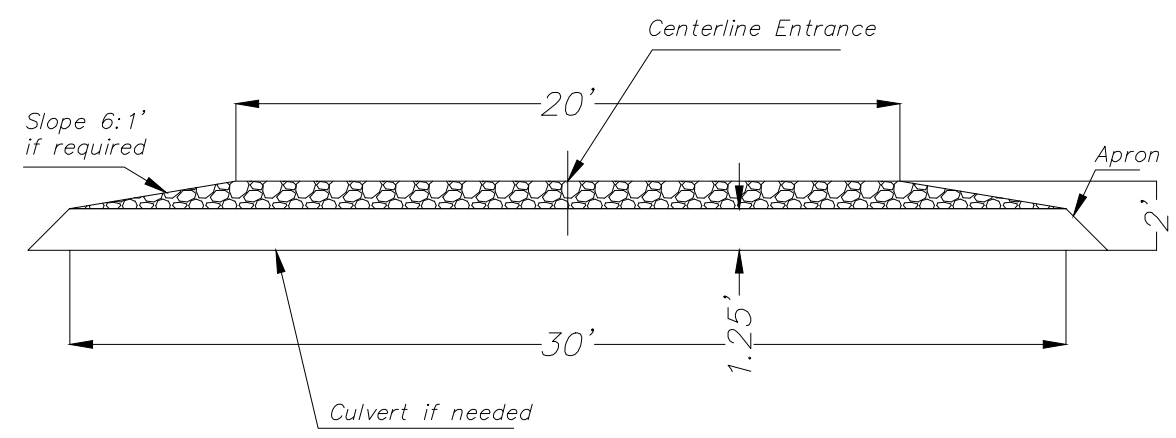
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Scale:	Rev:

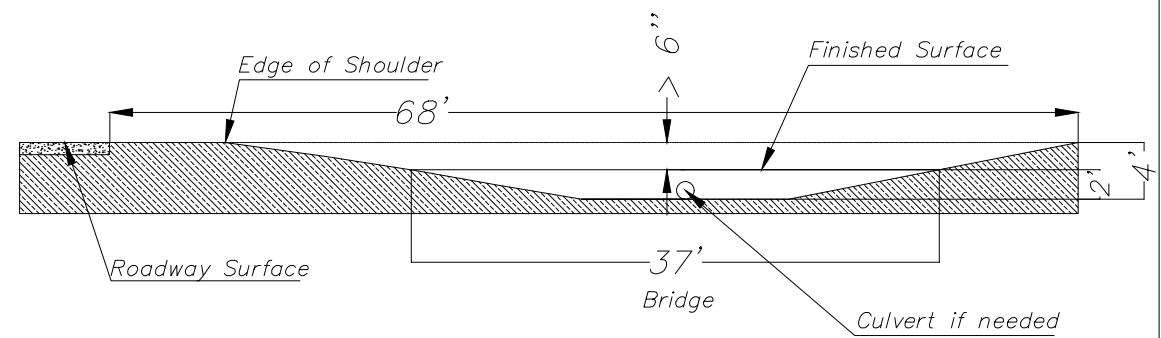


DETAIL - ACCESS FRONT VIEW



- Heavy Loads:
- MVS ~ 10 tn
 - PV 40ft Container ~ 7 tn
- Contours Curves

DETAIL - ACCESS CROSS VIEW



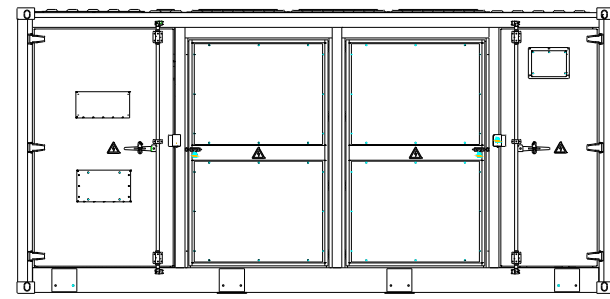
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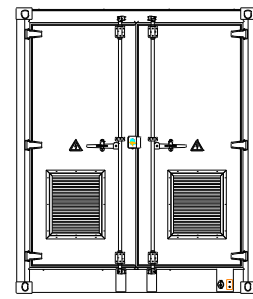


Project: LONE TREE	
Sector: JOHNSON, IOWA, USA	
Owner: PCR INVESTMENTS SP2 LLC	
Title: SITE PLAN	Sheet: 06/07
Utility: CIPCO	Scale: Rev:
File: Site Plan Lone Tree.dwg	

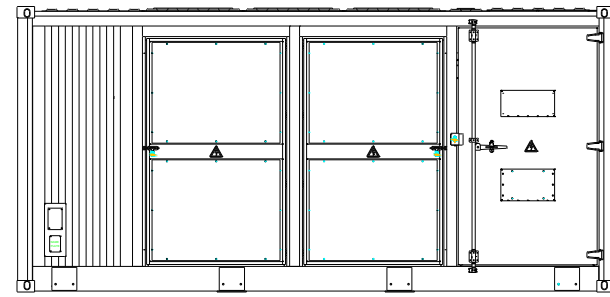
SW & CONTROL ROOM



Front View

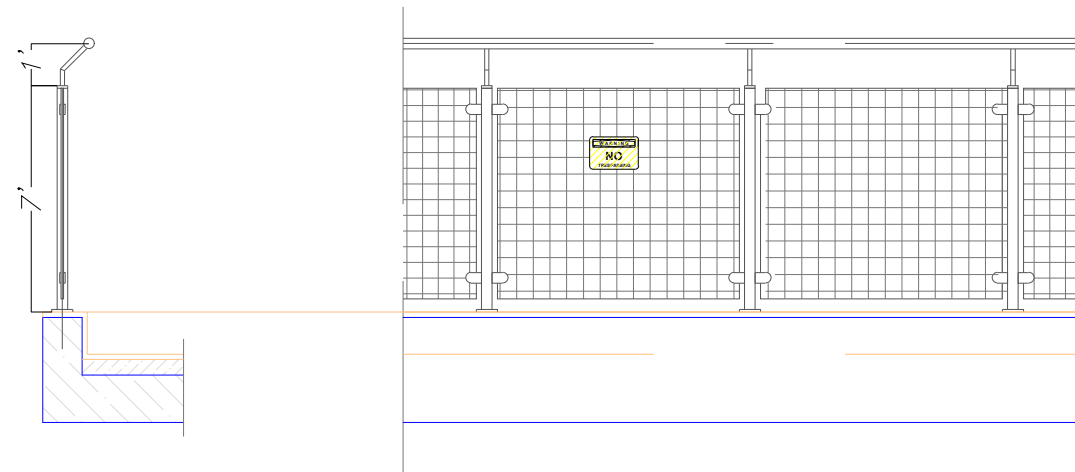


Right View

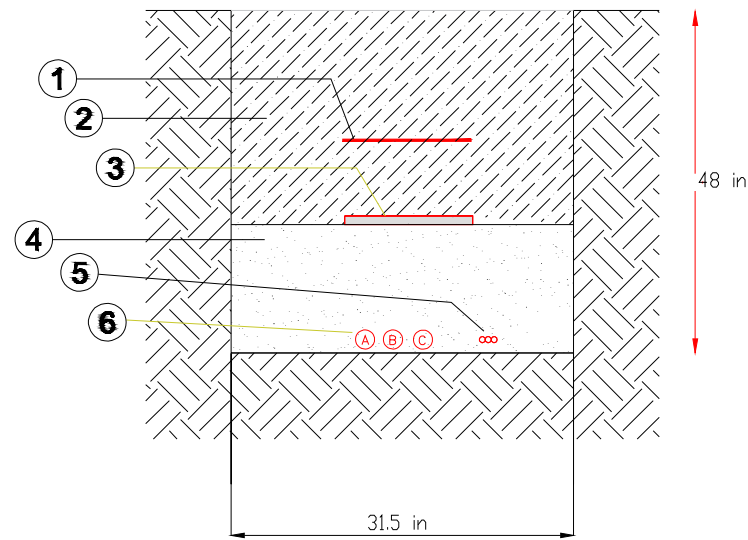


Back View

SITE BOUNDARY FENCE



DETAIL UNDERGROUND MV CABLE - INTERCONNECTION



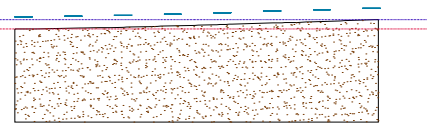
- ① Warning sign
- ② Filled with excavated land
- ③ Protection plate
- ④ Filled with excavated land
- ⑤ Tritube (FD)
- ⑥ MV 12.47kV Al 3x1x250MCM XLPE

48 in

31.5 in

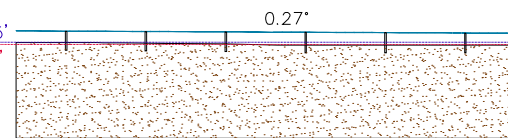
CROSS SECTION VIEW

Elevation max. 648'
Elevation min. 644'



FRONT VIEW

Elevation max. 645'
Elevation min. 644'



Frame parameters
 Framing type: single-axis trackers
 Module orientation: portrait
 Rows: 1
 Columns: 54
 Turning angle range, °: 52.00
 Horizontal gap between modules, ft: 0.066
 Vertical gap between modules, ft: 0.066
 Motor gap size, ft: 6.562
 Number of joint gaps : 0
 Joint gap size, ft: 1.640
 Overhang left, ft: 0.000
 Overhang right, ft: 0.000
 Pole reveal, ft: 4.914
 Reference height, ft: 1.969
 Frame height at highest point, ft: 7.919
 Frame power, kWp: 29.700

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