

DWG NO.	DRAWING TITLE	DATE	REV.	DATE	REV.	DATE	REV.
FCS-E-600-00	COVER SHEET	04/12/24	1	06/07/24	2	06/25/24	3
FCS-E-601-00	MEDIUM VOLTAGE PLAN	04/12/24	1	06/07/24	2	06/25/24	3
FCS-E-601-01	MV SINGLE LINE DIAGRAM	04/12/24	1	06/07/24	2	06/25/24	3
FCS-E-601-02	MV SINGLE LINE WIRE SCHEDULES	04/12/24	1	06/07/24	2	06/25/24	3
FCS-E-602-01	TRENCH, BORE AND SECTIONALIZER DETAILS	04/12/24	1	06/07/24	2	06/25/24	3
FCS-E-602-02	DIRECTIONAL BORE DETAILS	04/12/24	1	06/07/24	2	06/25/24	3
FCS-E-603-01	TYPICAL CROSSINGS DETAILS	-	-	-	-	06/25/24	3

THESE DESIGN DRAWINGS HAVE BEEN CREATED AT THE DIRECTION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK.  
ENGINEER OF RECORD:  
JAYME GARCIA, LICENSE #090650  
TRC ENGINEERS, INC., CERTIFICATE OF AUTHORIZATION NO. 001817,  
1407 BROADWAY, SUITE 3301,  
NEW YORK, NY 10018.

UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

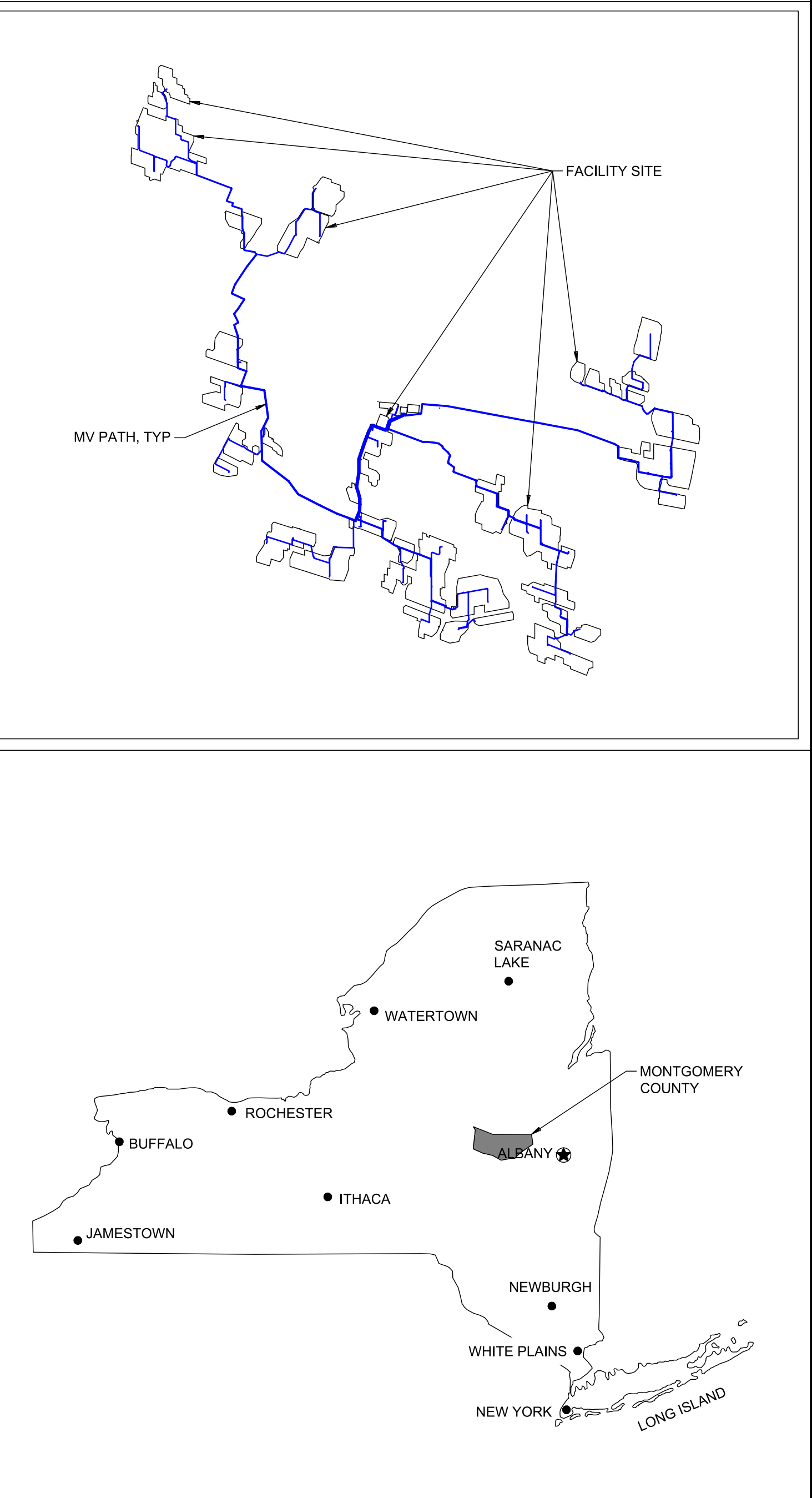
# FLAT CREEK SOLAR PROJECT

PREPARED FOR: CORDELIO POWER, LP  
PREPARED BY: TRC ENGINEERS, INC.  
ISSUE DATE: 06/25/24  
ISSUE STATUS: ISSUED FOR FINAL CLIENT REVIEW

### PROJECT DATA




LOCATION: MONTGOMERY COUNTY, NY  
PROJECTION: STATE PLANE NAD 83 (NY83-EF)  
POWER GENERATED: 300 MWac

### SITE MAP



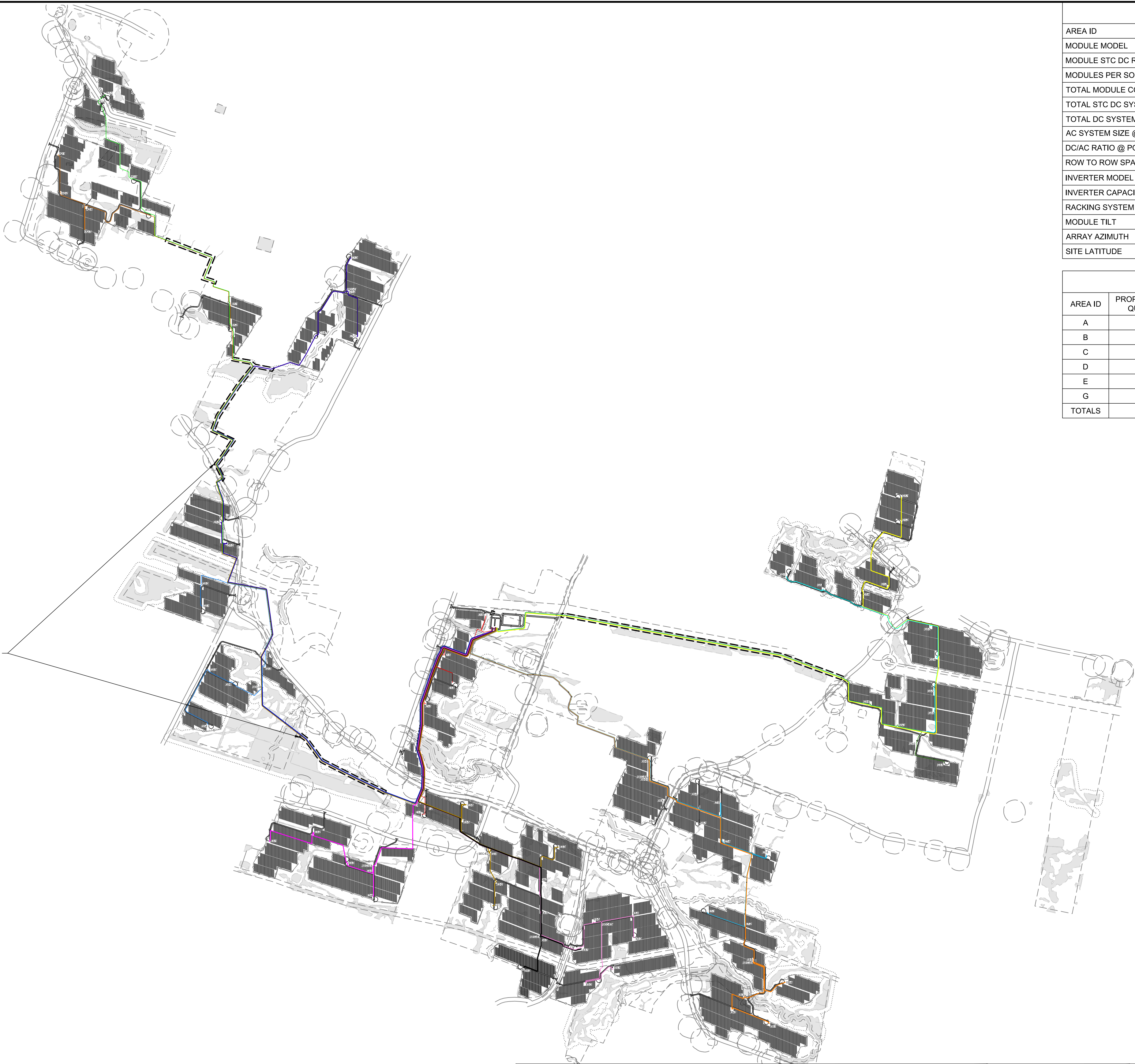
THE STATE OF NEW YORK

PRELIMINARY  
NOT FOR CONSTRUCTION

<div><div></div><div>3947 LENNANE DRIVE, SUITE 130 SACRAMENTO, CA 95834</div></div> <div><div></div><div>PROJECT NO: 435979</div></div>		<div>JMR DESIGNED</div>		FLAT CREEK SOLAR PROJECT CORDELIO POWER LP COVER SHEET										
		<div>JT DRAWN</div>												
REFERENCE ITEMS		REV	DESCRIPTION	DATE	DES	CHK	APP	<div>JMR CHECKED</div>		ROOT/CANAJOHARIE NEW YORK				
								<div>JTG APPROVED</div>						
		3	ISSUED FOR FINAL CLIENT REVIEW	06/25/24	JMR	JMR	JTG	REVIEW 1		06/25/24 DATE	<div></div>	FCS-E-600-00		REV. 3
		2	ISSUED FOR PHASE 3 CLIENT REVIEW	06/07/24	JMR	JMR	JTG	REVIEW 2		AS NOTED SCALE				
		1	ISSUED FOR PHASE 2 CLIENT REVIEW	04/12/24	JMR	JMR	JTG							



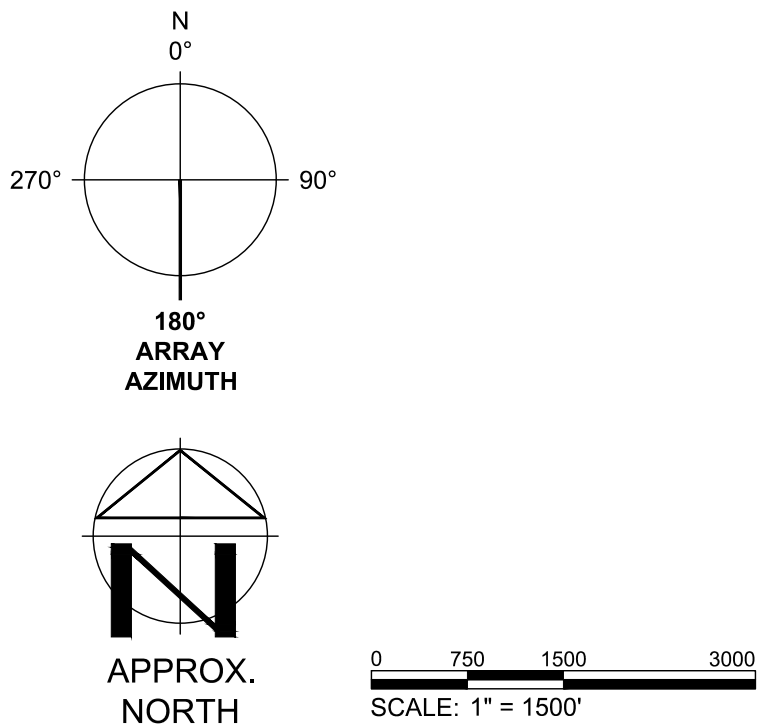
LEGEND	
<div></div>	MV CIRCUIT A1
<div></div>	MV CIRCUIT A2
<div></div>	MV CIRCUIT C1
<div></div>	MV CIRCUIT D2
<div></div>	MV CIRCUIT E1
<div></div>	MV CIRCUIT E2
<div></div>	MV CIRCUIT E3
<div></div>	MV CIRCUIT E4
<div></div>	MV CIRCUIT E5
<div></div>	MV CIRCUIT E6
<div></div>	MV CIRCUIT E7
<div></div>	MV CIRCUIT E8
<div></div>	MV CIRCUIT G1
<div></div>	MV CIRCUIT G2
<div></div>	MV CIRCUIT G3



SYSTEM SUMMARY						
AREA ID	A	B	C	D	E	G
MODULE MODEL	Jinko JKM565M_72HL-BDVP					
MODULE STC DC RATING	565W					
MODULES PER SOURCE CIRCUIT	26					
TOTAL MODULE COUNT	50,700	11,284	29,380	49,530	303,160	106,678
TOTAL STC DC SYSTEM SIZE	28.65 MW	6.38 MW	16.60 MW	27.98 MW	171.29 MW	60.27 MW
TOTAL DC SYSTEM SIZE	311.17 MW					
AC SYSTEM SIZE @ POI	300 MW					
DC/AC RATIO @ POI	1.06					
ROW TO ROW SPACING (GCR)	20'-0" (39.7%)					
INVERTER MODEL / QTY	SMA SC 4200 UP-US / (79 EQUIPMENT SKIDS)					
INVERTER CAPACITY	293.16 MVA					
RACKING SYSTEM	SINGLE-AXIS TRACKING					
MODULE TILT	-60° TO 60°					
ARRAY AZIMUTH	180°					
SITE LATITUDE	42°					

INVERTER SUMMARY TABLE					
AREA ID	PROPOSED SKID QUANTITY	2.52 MVA SKID QTY	3.36 MVA SKID QTY	4.2 MVA SKID QTY	PROPOSED INVERTER MVA
A	8	2	4	2	26.88
B	2	1	1	0	5.88
C	4	0	1	3	15.96
D	8	0	8	0	26.88
E	43	0	23	20	161.28
G	14	0	3	11	56.28
TOTALS	79	3	40	36	293.16

MV CIRCUIT TABLE			
CIRCUIT NUMBER	CIRCUIT NAME	SKID QTY	MVA
1	A1	5	16.8
2	A2	5	15.96
3	C1	6	22.68
4	D2	6	20.16
5	E1	6	21.84
6	E2	6	22.68
7	E3	5	16.8
8	E4	5	19.32
9	E5	5	18.48
10	E6	6	23.52
11	E7	5	18.48
12	E8	5	20.16
13	G1	4	16.8
14	G2	6	22.68
15	G3	4	16.8
	SUM	79	293.16



TRC

3947 LENNANE DRIVE, SUITE 130  
SACRAMENTO, CA 95834

CORDELIO POWER

PROJECT NO: 435979

REFERENCE ITEMS	REV	DESCRIPTION	DATE	DES	CHK	APP
	3	ISSUED FOR FINAL CLIENT REVIEW	06/25/24	JMR	JMR	JTG
	2	ISSUED FOR PHASE 3 CLIENT REVIEW	06/07/24	JMR	JMR	JTG
	1	ISSUED FOR PHASE 2 CLIENT REVIEW	04/12/24	JMR	JMR	JTG

JMR DESIGNED

JT DRAWN

JMR CHECKED

JTG APPROVED

FLAT CREEK SOLAR PROJECT

CORDELIO POWER LP

MEDIUM VOLTAGE PLAN

ROOT/CANAJOHARIE

NEW YORK

REVIEW 1

REVIEW 2

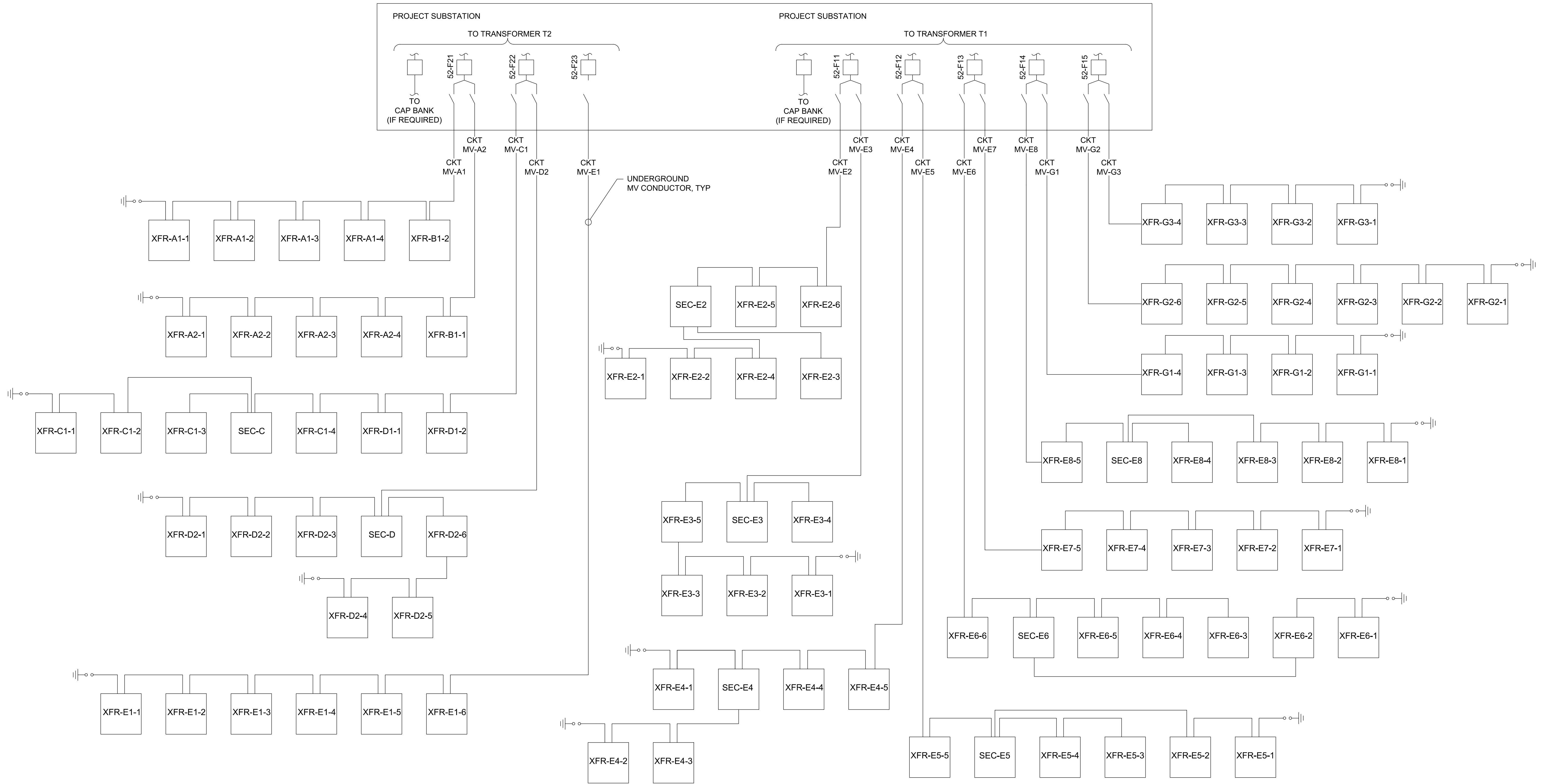
06/25/24  
DATE

AS NOTED  
SCALE




TRC

E-601-00

REV. 3



PRELIMINARY  
NOT FOR CONSTRUCTION

<div><div></div><div>3947 LENNANE DRIVE, SUITE 130 SACRAMENTO, CA 95834</div></div> <div><div></div><div>PROJECT NO: 435979</div></div>		<div>JMR DESIGNED</div>		FLAT CREEK SOLAR PROJECT CORDELIO POWER LP MV SINGLE LINE DIAGRAM									
		<div>JT DRAWN</div>											
REFERENCE ITEMS		REV	DESCRIPTION	DATE	DES	CHK	APP	<div>JMR CHECKED</div>		ROOT/CANAJOHARIE NEW YORK			
								<div>JTG APPROVED</div>					
		3	ISSUED FOR FINAL CLIENT REVIEW	06/25/24	JMR	JMR	JTG	REVIEW 1		06/25/24 DATE		FCS-E-601-01	REV. 3
		2	ISSUED FOR PHASE 3 CLIENT REVIEW	06/07/24	JMR	JMR	JTG	REVIEW 2		AS NOTED SCALE			
		1	ISSUED FOR PHASE 2 CLIENT REVIEW	04/12/24	JMR	JMR	JTG						



MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_A1	XFR A1-1 TO XFR A1-2	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	410	0.01%
	XFR A1-2 TO XFR A1-3	112	6720	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	2510	0.09%
	XFR A1-3 TO XFR A1-4	169	10080	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	1260	0.04%
	XFR A1-4 TO XFR B1-2	239	14280	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	4860	0.19%
	XFR B1-2 TO SUBSTATION	281	16800	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	23060	1.04%
TOTAL VD:								1.36%

MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_A2	XFR A2-1 TO XFR A2-2	56	3360	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1260	0.02%
	XFR A2-2 TO XFR A2-3	112	6720	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1510	0.05%
	XFR A2-3 TO XFR A2-4	169	10080	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	760	0.02%
	XFR A2-4 TO XFR B1-1	211	12600	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	7060	0.24%
	XFR B1-1 TO SUBSTATION	267	15960	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	24060	1.03%
TOTAL VD:								1.36%

MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_C1	XFR-C1-1 TO XFR-C1-2	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1410	0.03%
	XFR-C1-2 TO SEC-C	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	110	0.00%
	XFR-C1-3 TO SEC-C	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	980	0.02%
	SEC-C TO XFR-C1-4	211	12600	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	1660	0.06%
	XFR-C1-4 TO XFR-D1-1	267	15960	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	7260	0.31%
	XFR-D1-1 TO XFR-D1-2	323	19320	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	760	0.04%
	XFR-D1-2 TO SUBSTATION	380	22680	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	16060	0.97%
TOTAL VD:								1.44%

MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_D2	XFR-D2-1 TO XFR-D2-2	56	3360	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	660	0.01%
	XFR-D2-2 TO XFR-D2-3	112	6720	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	4060	0.08%
	XFR-D2-3 TO SEC-D	169	10080	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	710	0.02%
	XFR-D2-4 TO XFR-D2-5	56	3360	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	2060	0.04%
	XFR-D2-5 TO XFR-D2-6	112	6720	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	760	0.03%
	XFR-D2-6 TO SEC-D	169	10080	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	1060	0.03%
	SEC-D TO SUBSTATION	337	20160	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	12560	0.68%
TOTAL VD:								0.89%

MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_E1	XFR-E1-1 TO XFR-E1-2	56	3360	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	260	0.00%
	XFR-E1-2 TO XFR-E1-3	112	6720	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	2760	0.10%
	XFR-E1-3 TO XFR-E1-4	169	10080	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	910	0.05%
	XFR-E1-4 TO XFR-E1-5	239	14280	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	860	0.04%
	XFR-E1-5 TO XFR-E1-6	309	18480	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	2060	0.10%
	XFR-E1-6 TO SUBSTATION	365	21840	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	860	0.05%
TOTAL VD:								0.34%

MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_E2	XFR-E2-1 TO XFR-E2-2	56	3360	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	760	0.01%
	XFR-E2-2 TO XFR-E2-4	112	6720	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	830	0.03%
	XFR-E2-3 TO SEC-E2	183	10920	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	2560	0.09%
	XFR-E2-4 TO SEC-E2	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	110	0.00%
	SEC-E2 TO XFR-E2-5	253	15120	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	1360	0.06%
	XFR-E2-5 TO XFR-E2-6	309	18480	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	560	0.03%
	XFR-E2-6 TO SUBSTATION	380	22680	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	7660	0.46%
TOTAL VD:								0.69%

MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_E3	XFR-E3-1 TO XFR-E3-2	56	3360	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1760	0.03%
	XFR-E3-2 TO XFR-E3-3	112	6720	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1460	0.05%
	XFR-E3-3 TO XFR-E3-5	169	10080	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	950	0.05%
	XFR-E3-4 TO SEC-E3	56	3360	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	860	0.01%
	XFR-E3-5 TO SEC-E3	225	13440	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	120	0.00%
	SEC-E3 TO SUBSTATION	281	16800	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	9060	0.41%
TOTAL VD:								0.56%

MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_E4	XFR-E4-1 TO SEC-E4	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1260	0.03%
	XFR-E4-2 TO XFR-E4-3	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1410	0.03%
	XFR-E4-3 TO SEC-E4	141	8400	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	110	0.00%
	SEC-E4 TO XFR-E4-4	211	12600	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	710	0.03%
	XFR-E4-4 TO XRF-E4-5	267	15960	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	880	0.04%
	XRF-E4-5 TO SUBSTATION	323	19320	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	10560	0.55%
TOTAL VD:								0.68%

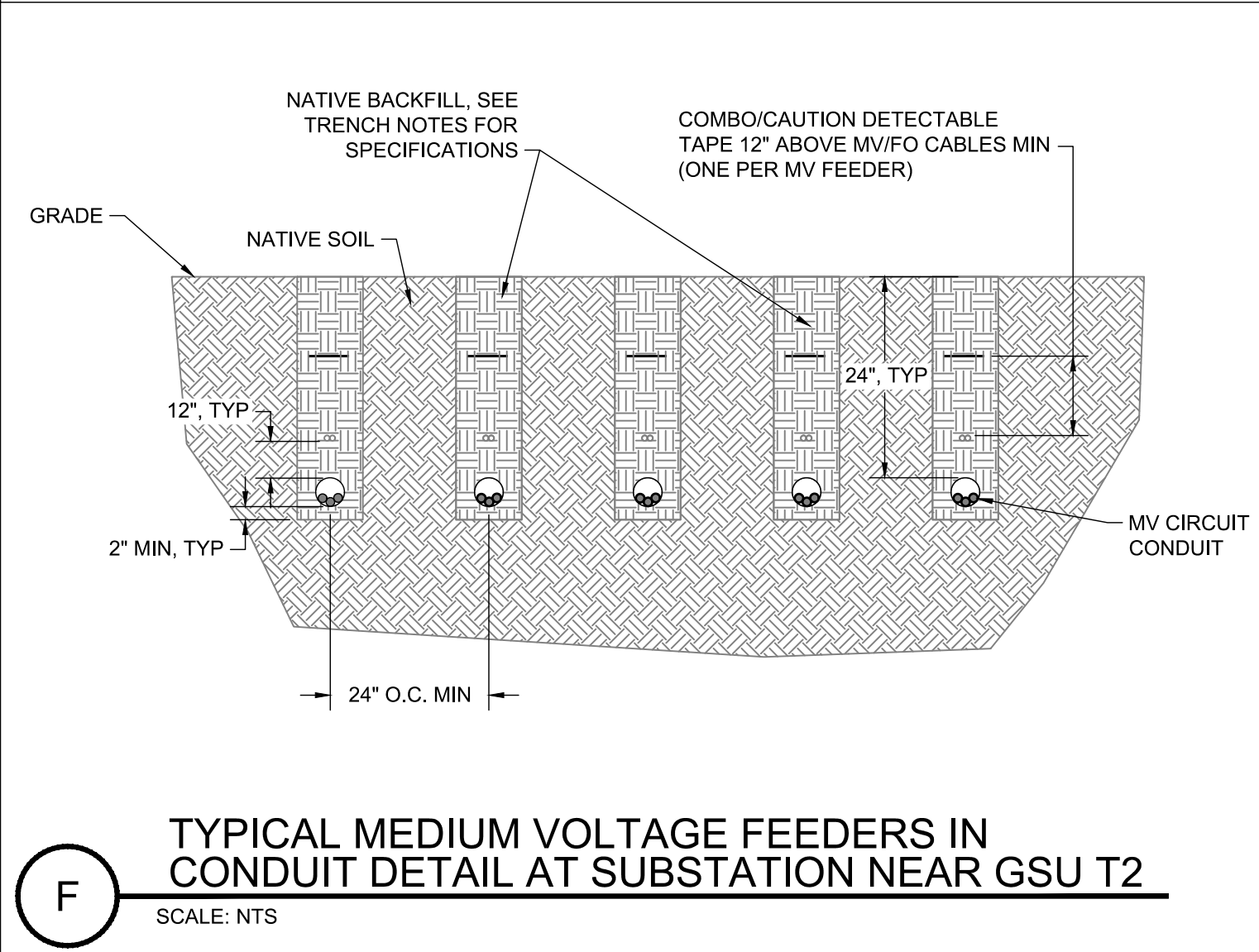
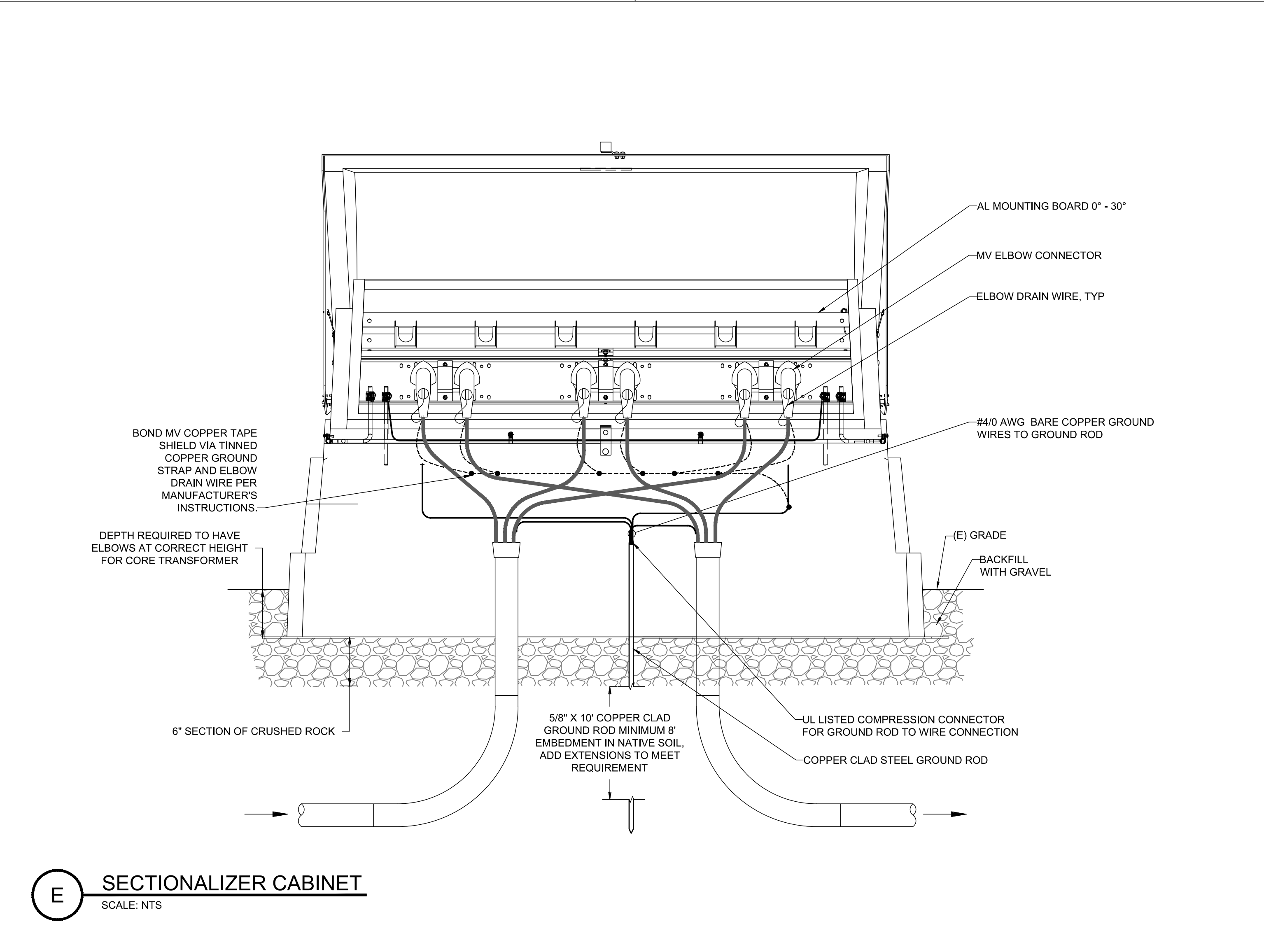
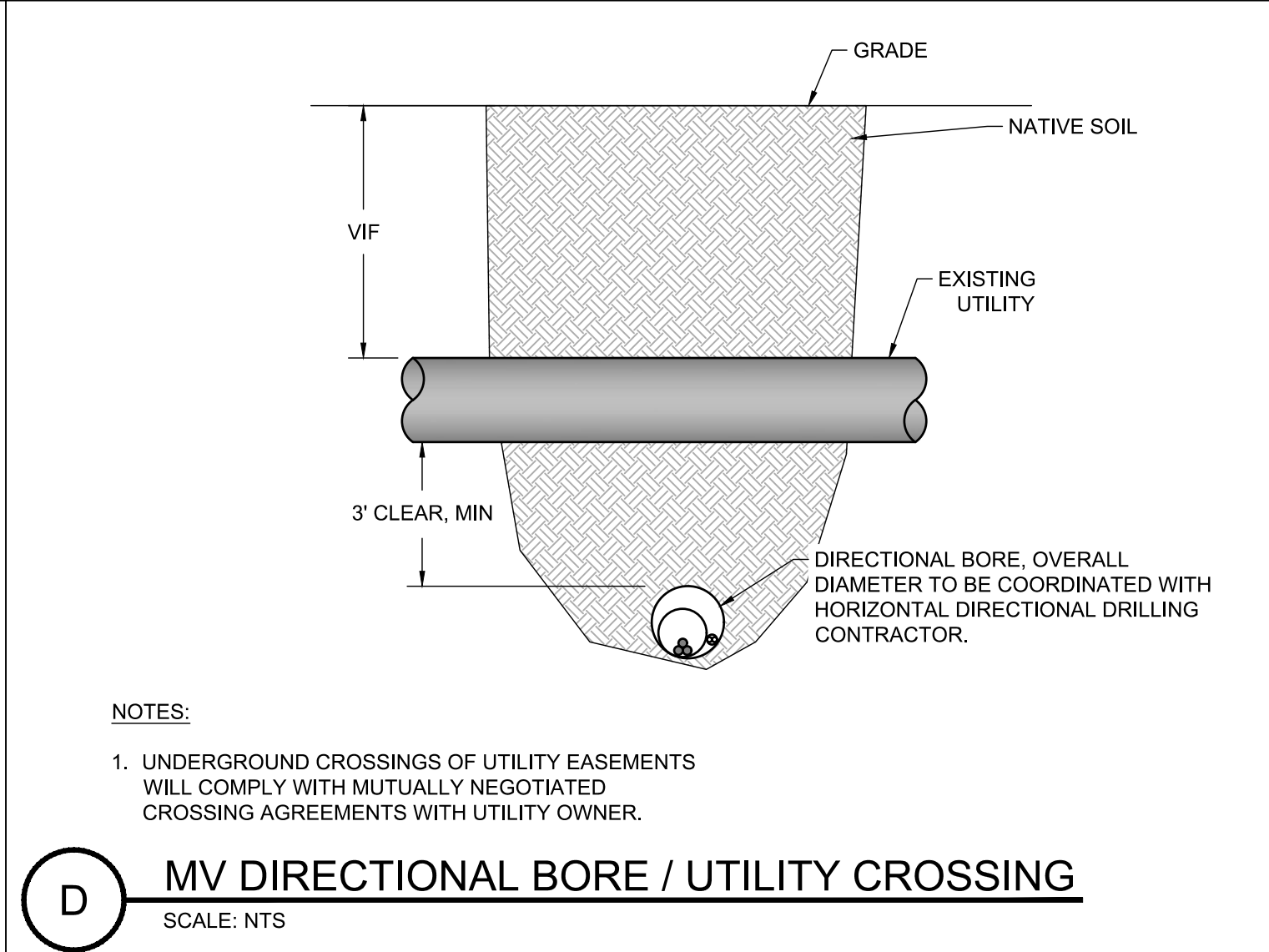
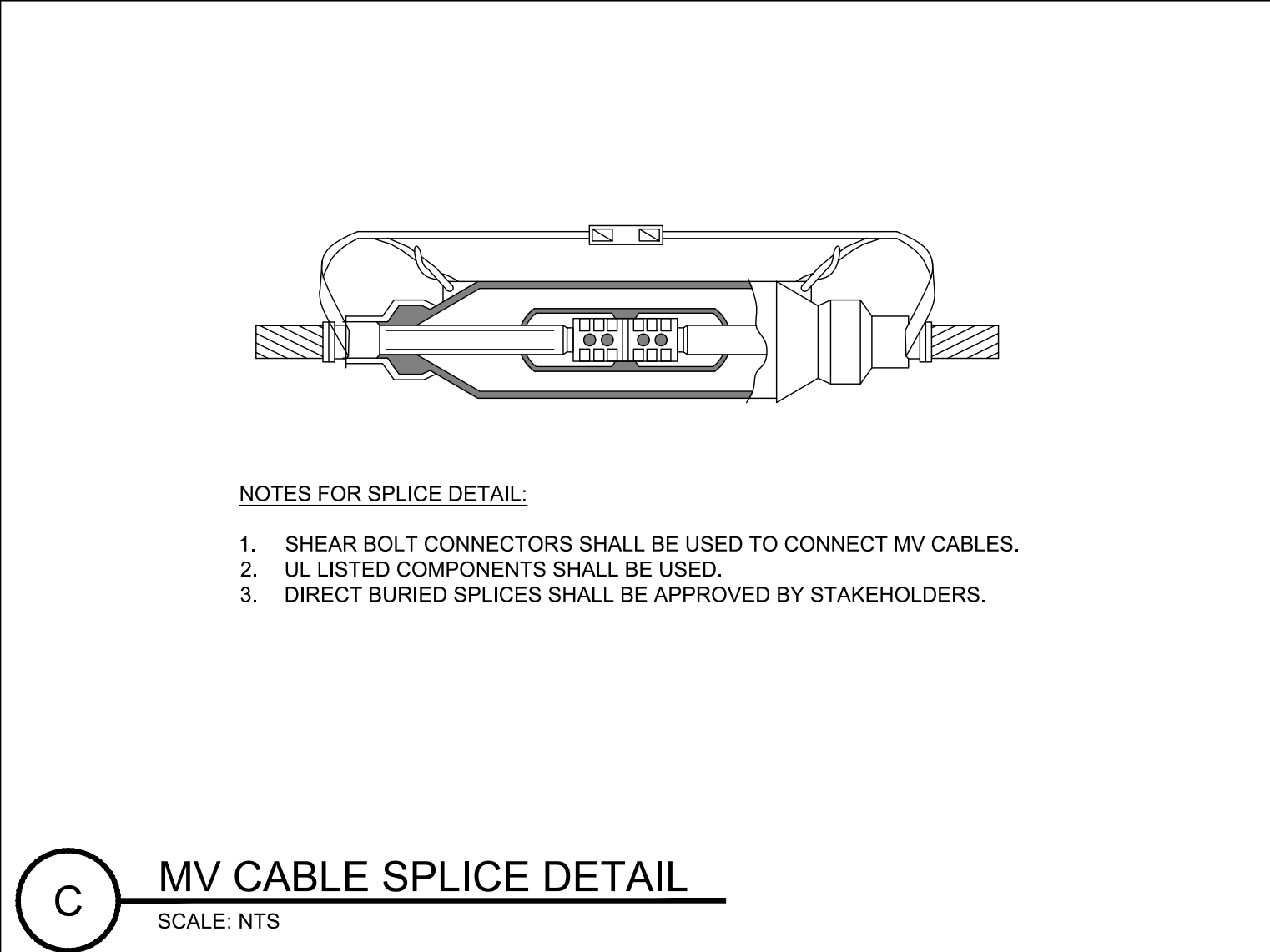
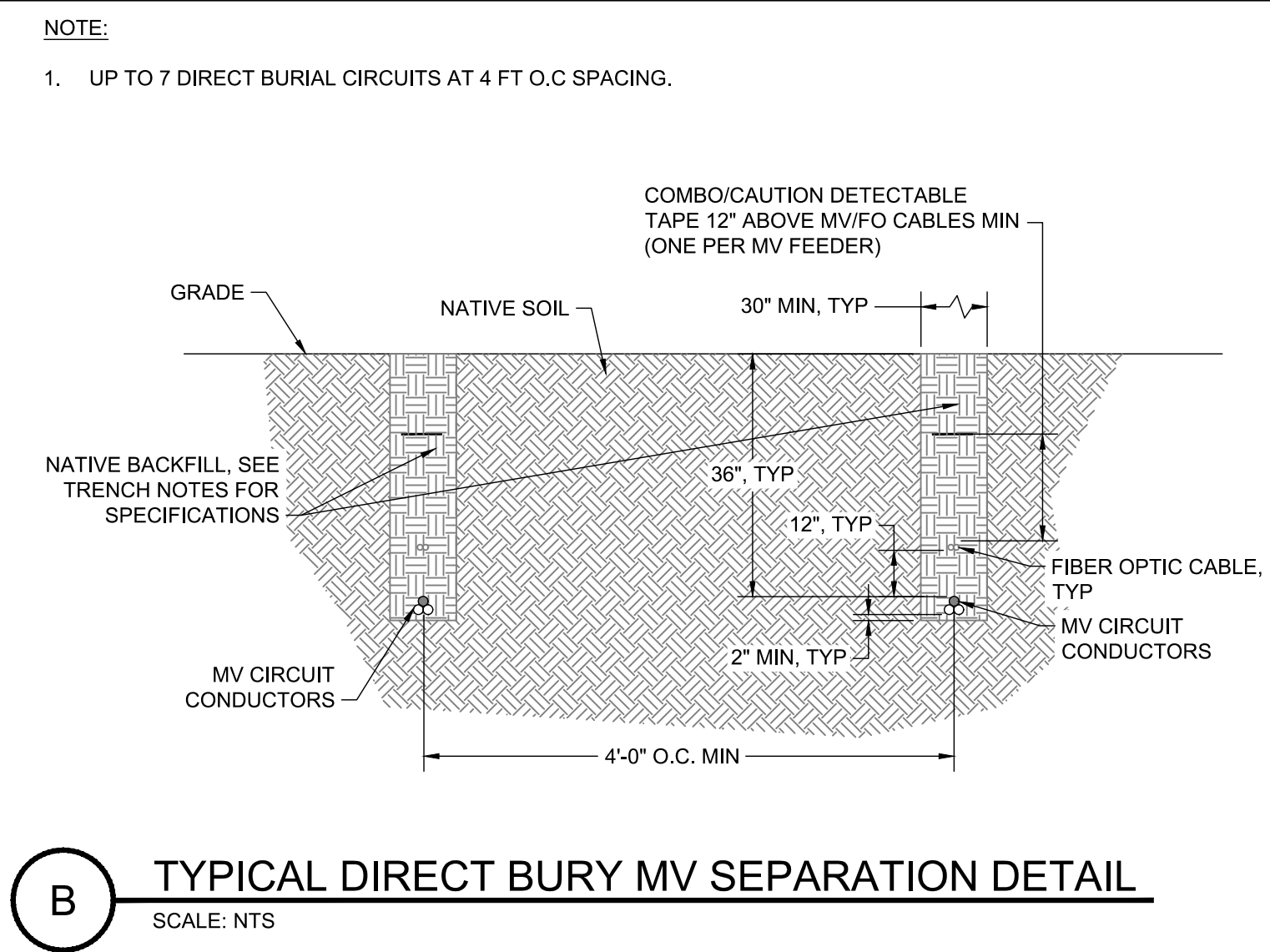
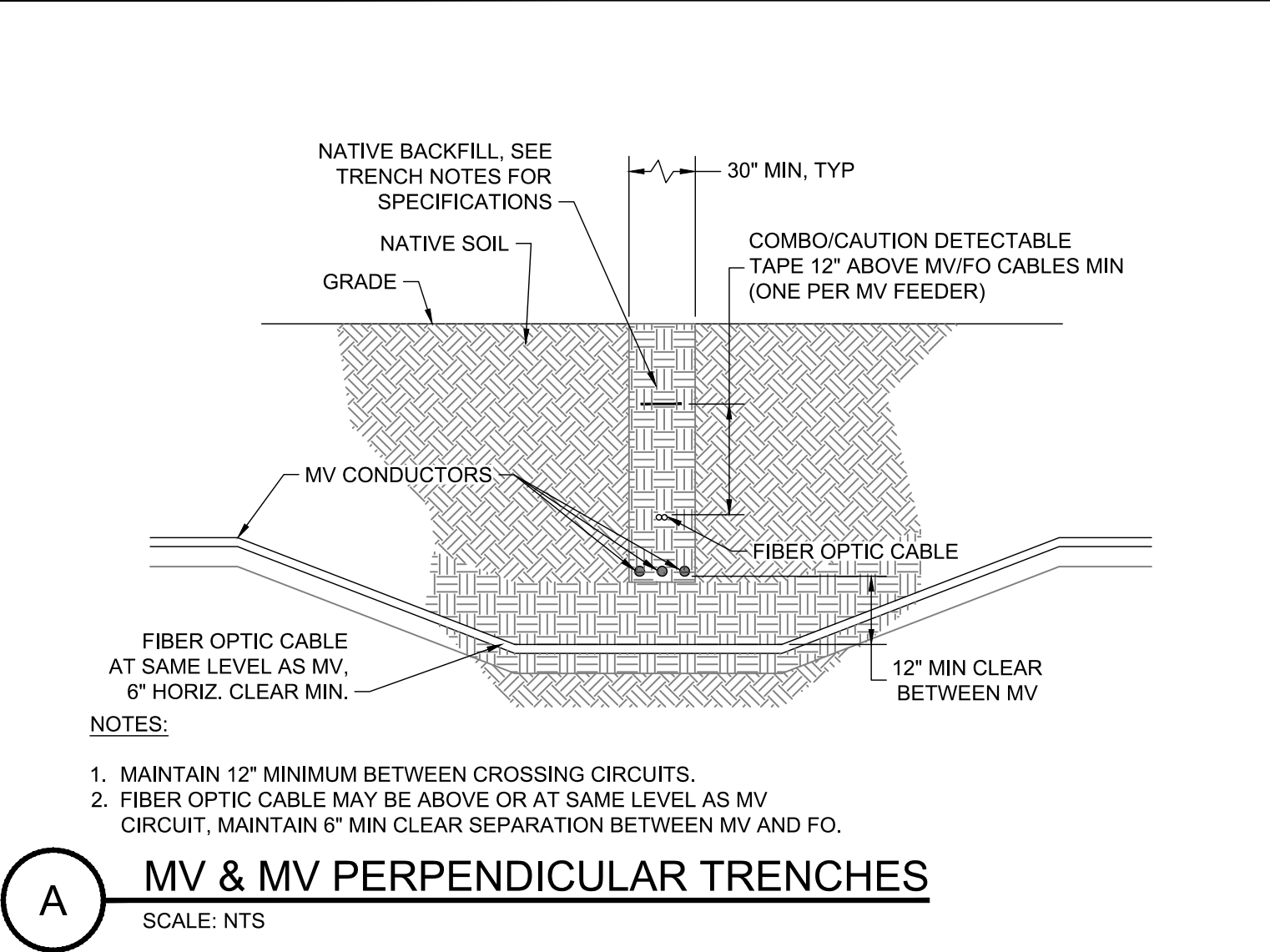
MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_E5	XFR-E5-1 TO XFR-E5-2	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	985	0.02%
	XFR-E5-2 TO SEC-E5	141	8400	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1960	0.08%
	XFR-E5-3 TO XFR-E5-4	56	3360	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	710	0.01%
	XFR-E5-4 TO SEC-E5	112	6720	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	910	0.03%
	SEC-E5 TO XFR-E5-5	253	15120	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	320	0.01%
	XFR-E5-5 TO SUBSTATION	309	18480	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	13860	0.68%
TOTAL VD:								0.85%

MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_E6	XFR-E6-1 TO XFR-E6-2	56	3360	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	910	0.02%
	XFR-E6-2 TO SEC-E6	127	7560	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	2160	0.08%
	XFR-E6-3 TO XFR-E6-4	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	660	0.01%
	XFR-E6-4 TO XFR-E6-5	141	8400	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1060	0.05%
	XFR-E6-5 TO SEC-E6	197	11760	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	110	0.00%
	SEC-E6 TO XFR-E6-6	323	19320	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	460	0.02%
	XFR-E6-6 TO SUBSTATION	394	23520	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	7460	0.47%
TOTAL VD:								0.66%

MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH (FT)	IEEE VD .95 PF (%)
MV_E7	XFR-E7-1 TO XFR-E7-2	56	3360	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1160	0.02%
	XFR-E7-2 TO XFR-E7-3	112	6720	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	2360	0.08%
	XFR-E7-3 TO XFR-E7-4	183	10920	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	1360	0.05%
	XFR-E7-4 TO XFR-E7-5	253	15120	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	1160	0.05%
	XFR-E7-5 TO SUBSTATION	309	18480	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	10560	0.52%
TOTAL VD:								0.72%

MV AC CABLE SCHEDULE								
CIRCUIT #	CIRCUIT LOCATION	LOAD CURRENT (A)	POWER PER CIRCUIT RUN (kW)	PHASE CONDUCTOR SIZE	WIRE TYPE	RACEWAY	TOTAL CIRCUIT LENGTH	IEEE VD .95 PF (%)
MV_E8	XFR-E8-1 TO XFR-E8-2	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1260	0.03%
	XFR-E8-2 TO XFR-E8-3	141	8400	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	810	0.04%
	XFR-E8-3 TO SEC-E8	211	12600	1000 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (14X#14AWG CU)	DIRECT BURIED	1660	0.06%
	XFR-E8-4 TO SEC-E8	70	4200	500 KCMIL	35kV TR-XLPE 100% MV-105, 1/6N (9X#14AWG CU)	DIRECT BURIED	1660	0.04%
	SEC-E8 TO XFR-E8-5	281	16800	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	110	0.00%
	XFR-E8-5 TO SUBSTATION	337	20160	1250 KCMIL	35kV TR-XLPE 100% MV-105, 1/8N (17X#14AWG CU)	DIRECT BURIED	14660	0.79%
TOTAL VD:								0.96%



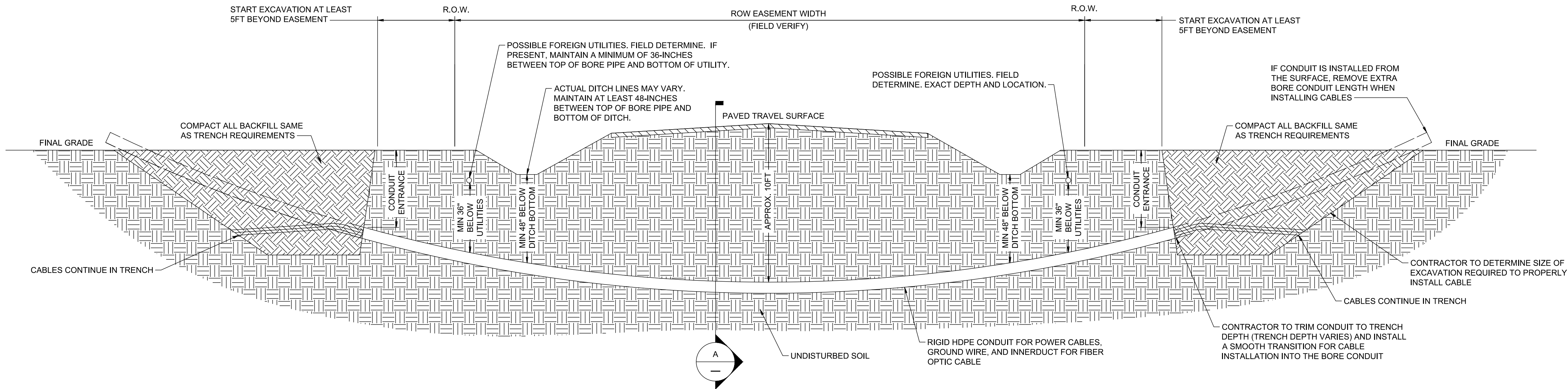


**TRENCH NOTES:**

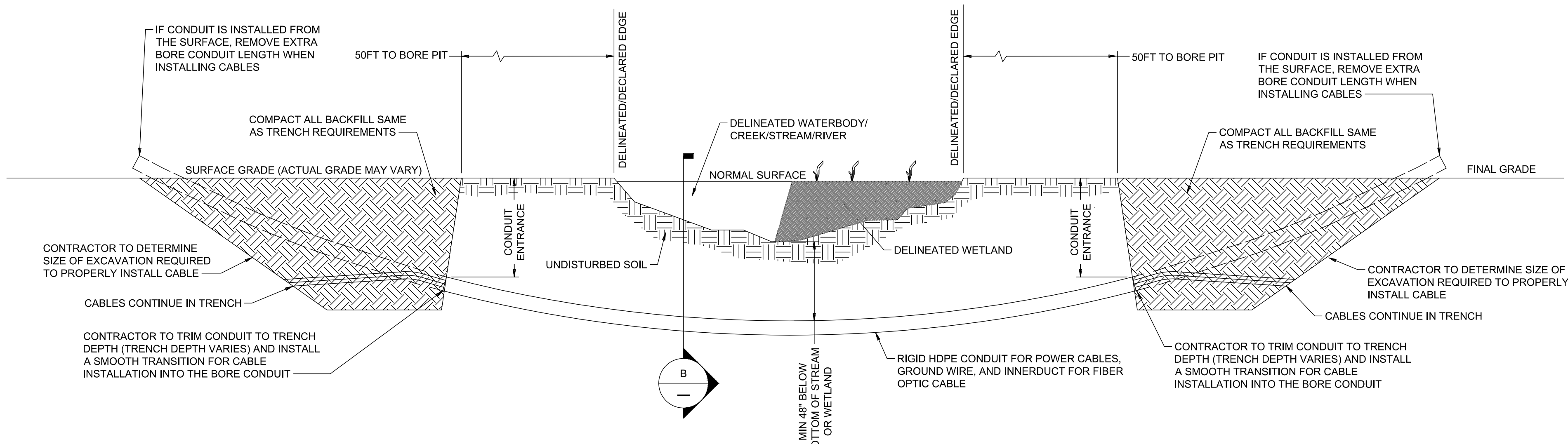
1. WIDTH OF TRENCH VARIES BY LOCATION & TOTAL NUMBER OF CIRCUITS.
2. DO NOT INSTALL DC AND MV AC CIRCUITS IN THE SAME TRENCH. DO NOT STACK AC & DC CIRCUITS. WHERE CIRCUITS CROSS SEE PERPENDICULAR TRENCH.
3. ALL EXPOSED ABOVE GROUND CONDUIT SHALL BE SCH. 80 PVC, UV RESISTANT.
4. NATIVE MATERIAL SHALL BE USED AS TRENCH BACKFILL, UNLESS OTHERWISE NOTED.
5. BACKFILL SHALL BE FREE OF MATERIALS THAT CAN DAMAGE THE CONDUIT / CABLES AND SHALL MATCH EXISTING SOIL THERMAL RESISTIVITY VALUE. ROCKS AND SHARP OBJECTS 3/8\"/>
6. THE NUMBER OF CABLES AND SEPARATION SHOWN IS REPRESENTATIVE AND WILL VARY PER THE SITE TRENCHING PLAN.

PRELIMINARY  
NOT FOR CONSTRUCTION

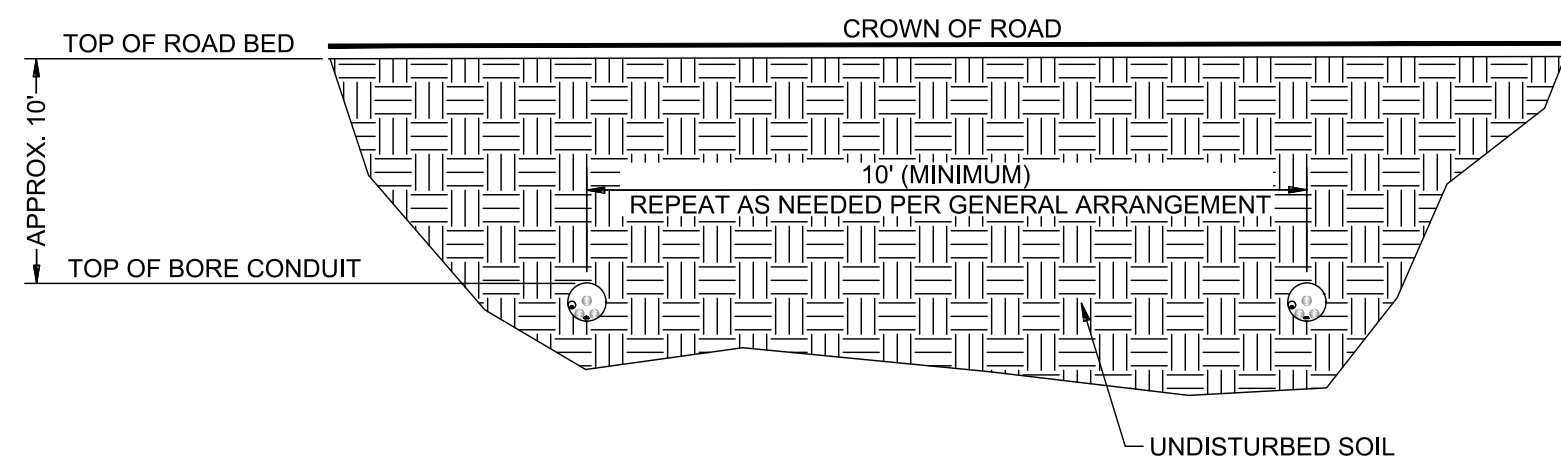




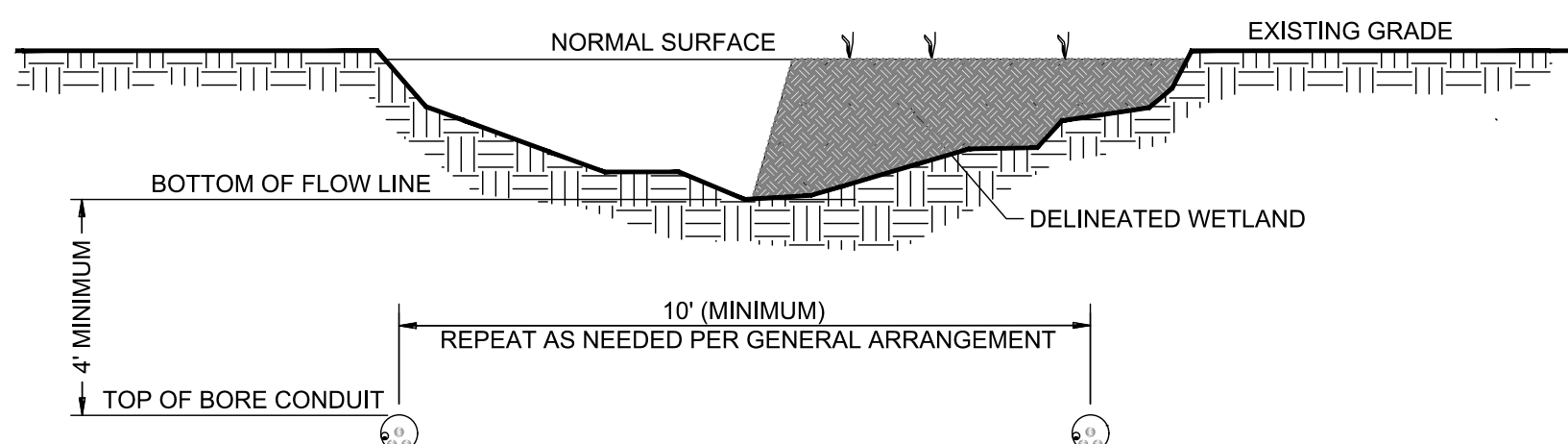
1 TYPICAL BORE SECTION UNDER LOCAL PAVED ROADS  
SCALE: NTS



2 TYPICAL BORE SECTION UNDER DELINEATED WATER OR WETLAND  
SCALE: NTS



A ROAD BORE SECTION  
SCALE: NTS



B WATER / WETLAND BORE SECTION  
SCALE: NTS

- NOTES:
- UNDERGROUND OR EXISTING UTILITIES MAY BE PRESENT WITHIN OR ADJACENT TO THE EXCAVATION AREA(S). CONTACT LOCAL "ONE CALL" UTILITY LOCATING SERVICE AT LEAST 48 HOURS PRIOR TO EXCAVATION. MAINTAIN LOCATION MARKS AS NEEDED UNTIL INSTALLATION IS COMPLETED.
  - CONTRACTOR SHALL COMPLY WITH ANY SPECIFIC AGREEMENTS AND PERMITS OBTAINED FOR EACH INSTALLATION.
  - ALL COUNTY ROAD CROSSINGS MUST MAINTAIN AT LEAST 36 INCHES UNDER ANY EXISTING UTILITIES, OR 48 INCHES UNDER THE CENTERLINE OF THE ROAD, OR 48 INCHES BELOW THE DITCH LINES, WHICHEVER IS DEEPER. VERIFY DEPTH REQUIRED WITH ENGINEER BEFORE CROSSING IS COMMENCED.
  - INSTALL ALL CABLES CROSSING UNDER COUNTY ROADS IN CONDUIT.
  - WHEN CROSSING LOCAL AND/OR COUNTY ROADS, ALL EXCAVATION WORK SHALL HAPPEN AT LEAST 5 FEET OUTSIDE THE ROAD EASEMENT, UNLESS APPROVED OTHERWISE BY THE AUTHORITY HAVING JURISDICTION. ANY DISTURBED PORTIONS OF THE ROADWAY OR ITS RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR.
  - ALL EXCAVATIONS FOR DRILLING, JACKING, RAMMING, BORING, RECEIVING, OR CABLE INSTALLATION SHALL BE BACKFILLED AND COMPACTED TO MATCH TRENCH BACKFILL AND COMPACTION REQUIREMENTS.
  - WHEN CROSSING DELINEATED SURFACE WATER, WETLAND, OR STREAM FEATURES, ALL EXCAVATION WORK SHALL HAPPEN NO CLOSER THAN 50FT BEYOND THE DESIGNATED EDGE OF SAID FEATURE. IF THIS SEPARATION IS NOT FEASIBLE, CONTRACTOR SHALL KEEP EXCAVATION AREA AS FAR AS POSSIBLE AND AS SMALL AS POSSIBLE TO SAFELY INSTALL CONDUIT AND/OR CABLE.
  - IF NEEDED TO MAINTAIN CABLE INSTALLATION REQUIREMENTS, A SPLICE MAY BE INSTALLED AT OR NEAR THE CONDUIT ENTRANCE. DO NOT ALLOW THE SPLICE TO ENTER THE CONDUIT.

PRELIMINARY  
NOT FOR CONSTRUCTION

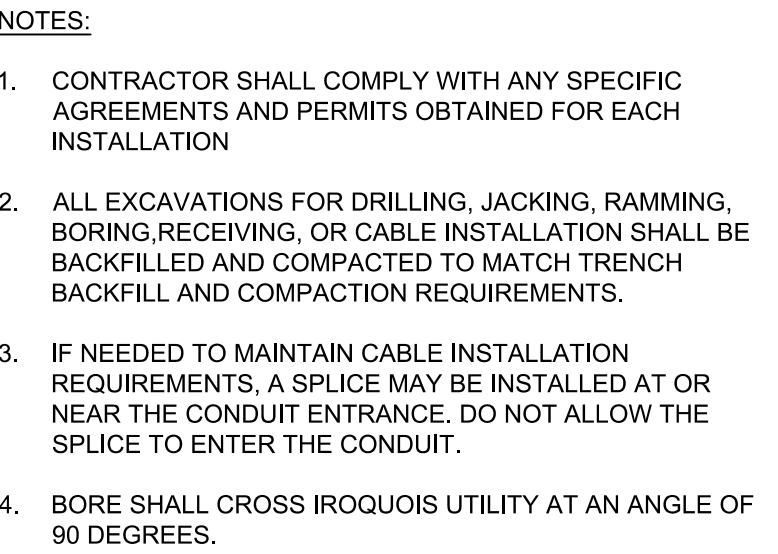
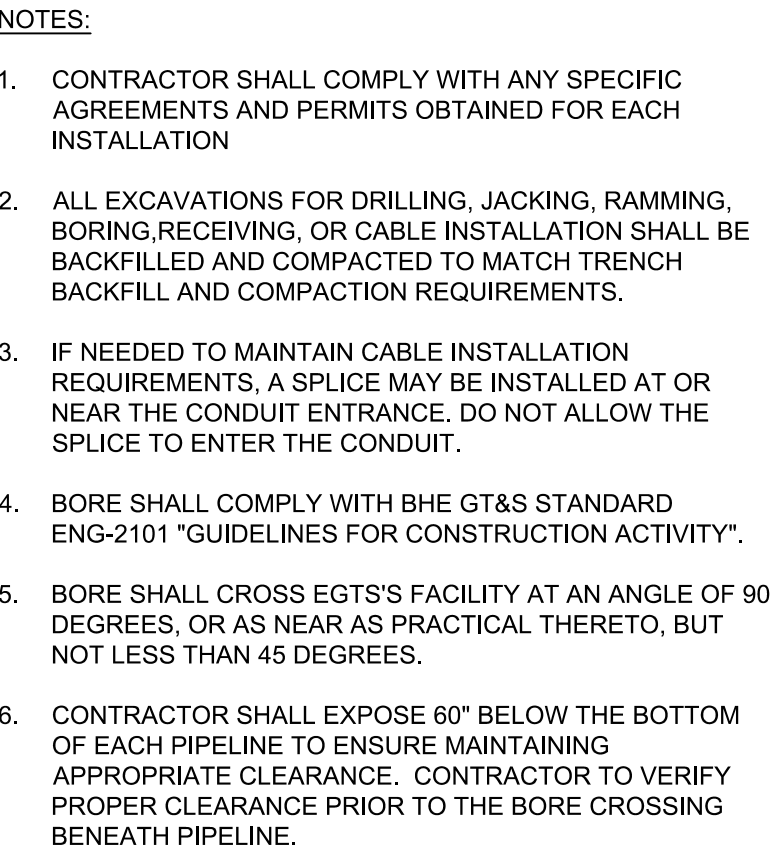
**TRC** 3947 LENNANE DRIVE, SUITE 130 **CORDELIO POWER**  
SACRAMENTO, CA 95834

PROJECT NO: 435979



REFERENCE ITEMS	REV	DESCRIPTION	DATE	DES	CHK	APP
	3	ISSUED FOR FINAL CLIENT REVIEW	06/25/24	JMR	JMR	JTG
	2	ISSUED FOR PHASE 3 CLIENT REVIEW	06/07/24	JMR	JMR	JTG
	1	ISSUED FOR PHASE 2 CLIENT REVIEW	04/12/24	JMR	JMR	JTG

JMR DESIGNED	FLAT CREEK SOLAR PROJECT CORDELIO POWER LP DIRECTIONAL BORE DETAILS		ROOT/CANAJOHARIE		NEW YORK	
JT DRAWN						
JMR CHECKED						
JTG APPROVED						
REVIEW 1	06/25/24 DATE	<b>TRC</b>	FCS-E-602-02		REV. 3	
REVIEW 2	AS NOTED SCALE					





PRELIMINARY  
NOT FOR CONSTRUCTION

		 3947 LENNANE DRIVE, SUITE 130 SACRAMENTO, CA 95834				PROJECT NO: 435979				JMR DESIGNED JT DRAWN JMR CHECKED JTG APPROVED		FLAT CREEK SOLAR PROJECT CORDELIO POWER LP TYPICAL CROSSINGS DETAILS			
REFERENCE ITEMS		REV	DESCRIPTION	DATE	DES	CHK	APP					ROOT/CANAJOHARIE NEW YORK			
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