

**DOCKETED**

<b>Docket Number:</b>	26-OPT-01
<b>Project Title:</b>	Vaca Dixon Power Center Project
<b>TN #:</b>	268166-2
<b>Document Title:</b>	Appendix C Project Plan Set_VDPC
<b>Description:</b>	Includes Project design, layout, site plans, elevations, component details and notes.
<b>Filer:</b>	Grace Myers
<b>Organization:</b>	Rincon Consultants, Inc.
<b>Submitter Role:</b>	Applicant Consultant
<b>Submission Date:</b>	1/6/2026 2:02:39 PM
<b>Docketed Date:</b>	1/6/2026

# Appendix C

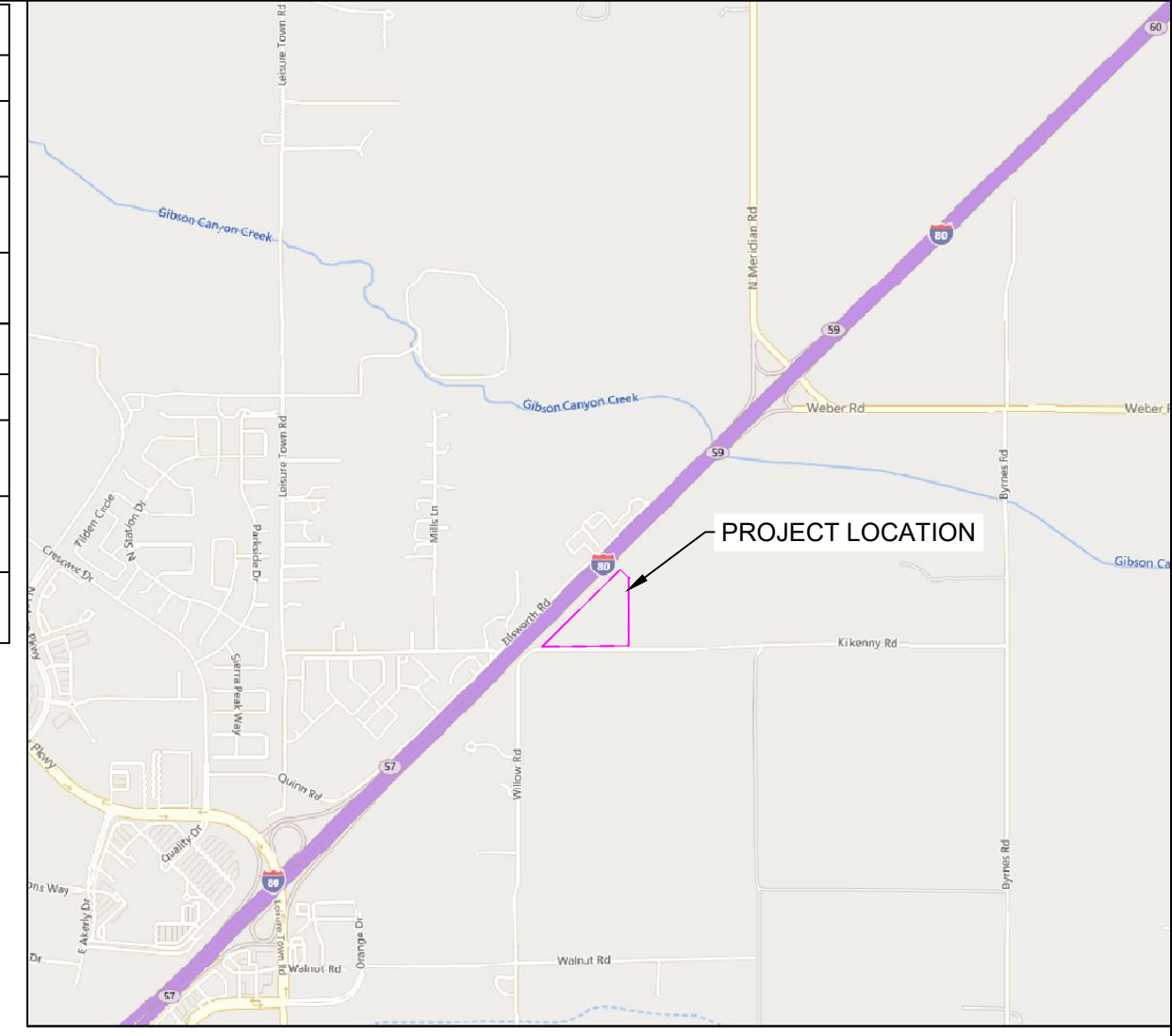
---

VDPC Plan Set



Conceptual Plant Schedule				
Symbol	Plant Type	Botanical Name	Common Name	Height/Width
	Small Coniferous Tree	Juniperus communis Pinus edulis	Common Juniper Pinyon Pine	20' / 10'-15'
	Clumping Shrub	Frangula californica Eriodictyon crassifolium Heteromeles arbutifolia Larrea tridentata	Coffeeberry Thickleaf Yerba Santa Christmas Berry	4'-6' / 3'-6'
	Ornamental Perennial	Eschscholzia californica Leptosyne gigantea Romneya coulteri Eriophyllum lanatum Erysimum concinnum	California Poppy Giant Coreopsis Coulter's Matilija Poppy Common Woolly Sunflower Curly Wallflower	2' / 1'6"-2'

VACA DIXON BESS SYSTEM DESCRIPTION	
SYSTEM SIZE	57 MW AC 1 HR RATING
BESS UNIT (SYL SU3794U379KC) QUANTITY (FUTURE)	21 (8)
DELTA PCS2580 MV POWER STATION QUANTITY (FUTURE)	21 (8)
CONFIGURATION	1 BESS UNIT PER PCS INVERTER SKID
ARGES BESS SYSTEM DESCRIPTION	
SYSTEM SIZE	100 MW AC 4 HR RATING
BESS UNIT (SYL 0.25C 5016 KWh) QUANTITY (FUTURE)	100 (28)
DELTA PCS2580 MV POWER STATION QUANTITY (FUTURE)	25 (7)
CONFIGURATION	4 BESS UNIT PER PCS INVERTER SKID



- NOTES**
- ALL EXISTING TOPOGRAPHY AND PHYSICAL FEATURES AS SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND AERIALS.
  - PROPERTY BOUNDARIES, EASEMENTS, AND RIGHTS-OF-WAY AS SHOWN ARE FROM THE BOUNDARY LINE ESTABLISHMENT SHEET EXHIBIT 'B' BY KIMLEY HORN & ASSOCIATES, INC. DATED AUGUST 2025 AND THE FILE "195639002VBM.dwg" PROVIDED BY MRP.
  - ACCORDING TO FEMA FLOOD INSURANCE RATE MAP: SOLANO COUNTY, CALIFORNIA, MAP NUMBER 06095C0168E, PANEL 168 OF 730, EFFECTIVE DATE MAY 4, 2009, THE PROPERTY IS LOCATED WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE (500-YEAR) FLOODPLAIN.

**PROJECT DATA**

PROJECT ADDRESS: KILKENNY ROAD  
CITY OF VACAVILLE  
SOLANO COUNTY, CA, 95377

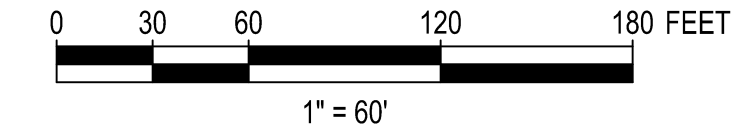
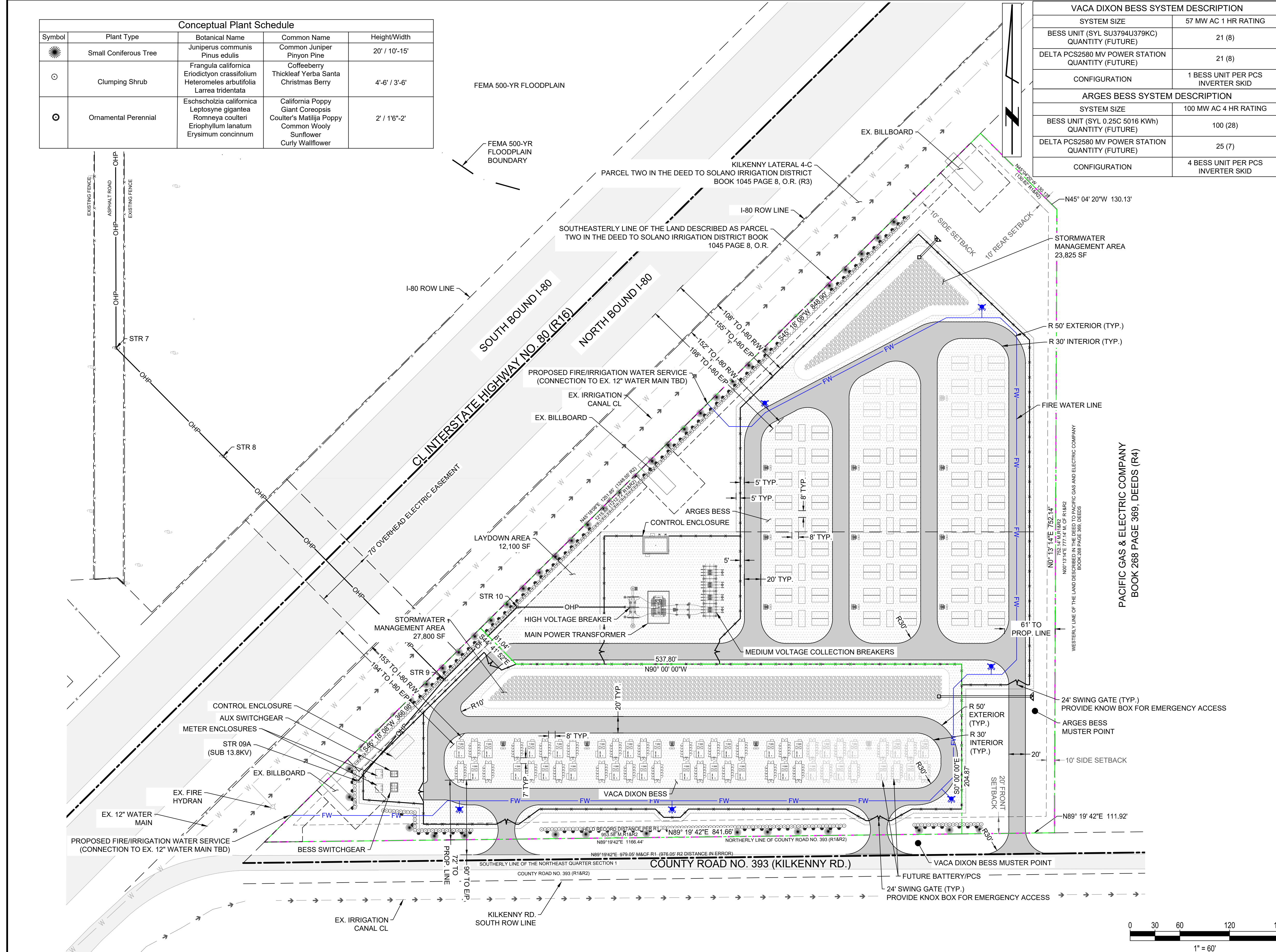
APN: 0133060060

PROJECT COORDINATES: 37.7121°, -121.4901°

PROPERTY ACRES: 10.02 ±

ZONING: BUSINESS PARK (BP)

- LEGEND**
- SUBJECT PROPERTY BOUNDARY
  - LEASE BOUNDARY
  - SETBACK LINES
  - OHL EXISTING OVERHEAD LINE
  - 84 EXISTING MINOR CONTOUR (1 INTERVAL)
  - 85 EXISTING MAJOR CONTOUR (5' INTERVAL)
  - 7' FENCE
  - OHP OVERHEAD ELECTRIC LINE
  - FW FIRE WATER LINE
  - BESS BATTERY ENERGY STORAGE SYSTEM
  - ROAD SURFACING
  - GRAVEL SURFACING
  - STORMWATER MANAGEMENT AREA
  - PROPOSED BESS UNIT
  - FUTURE BESS UNIT
  - PROPOSED PCS
  - FUTURE PCS
  - PROPOSED 4 BATTERY X 1 PCS CHAIN
  - FUTURE 4 BATTERY X 1 PCS CHAIN
  - MV TRANSFORMER
  - FUTURE MV TRANSFORMER
  - FIRE HYDRANT

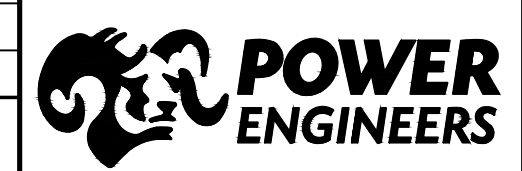


SP-100.DWG  
THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT. FAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT, REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

**CONCEPTUAL ONLY**  
NOT FOR CONSTRUCTION

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
B	ISSUED FOR INFORMATION	12/18/2025	JMM	SMT	TWH		
A	ISSUED FOR INFORMATION	11/24/2025	JMM	SMT	TWH		

DSGN	SMT	07/03/2025
DRN	JMM	07/03/2025
CKD	TWH	07/08/2025
SCALE:	1"=60'	
FOR 22x34 DWG ONLY		

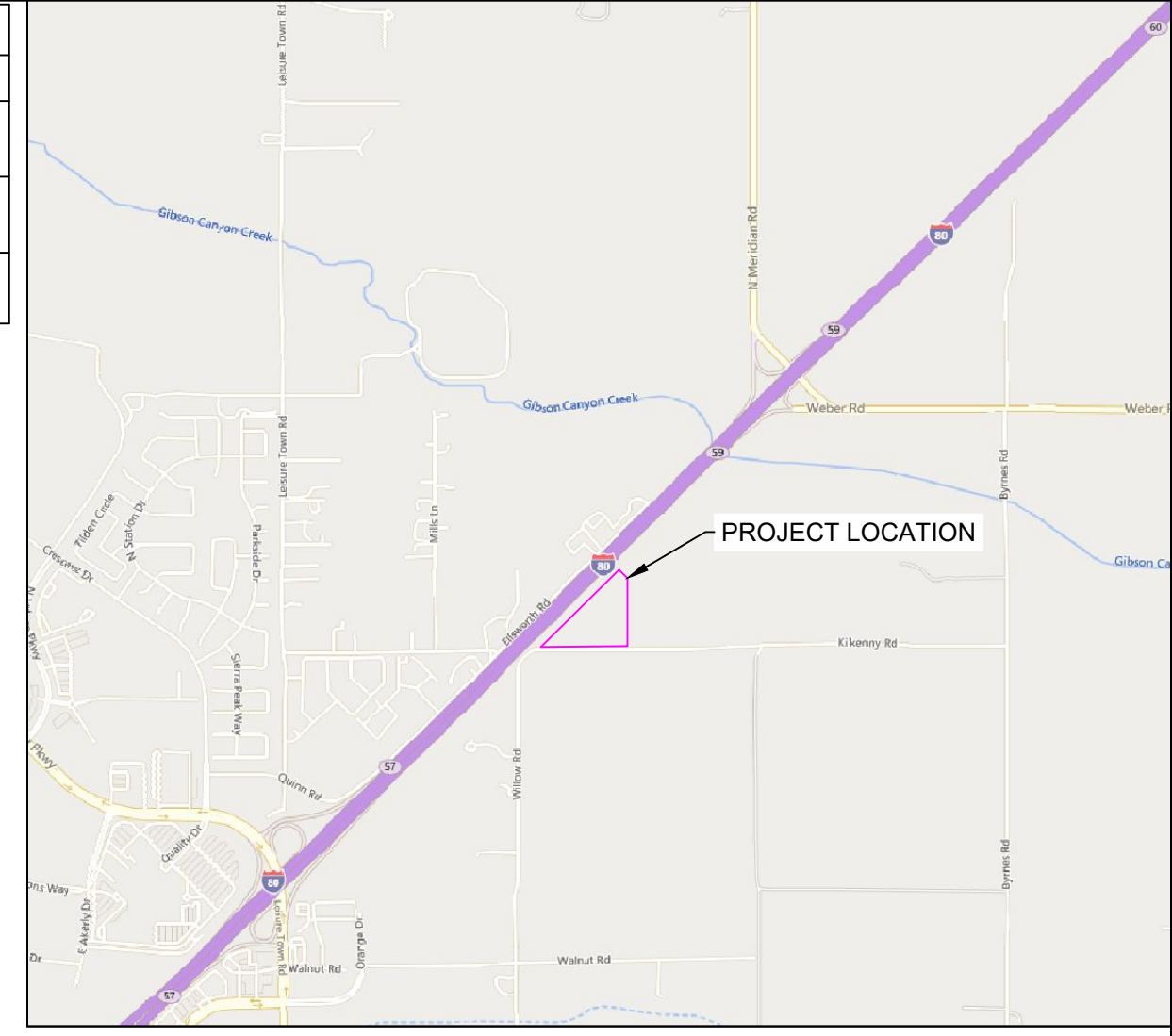


MIDDLE RIVER POWER	JOB NUMBER	REV
VACA DIXON & ARGES BESS	0256726	△
PRELIMINARY SITE PLAN	DRAWING NUMBER	SP-100



Conceptual Plant Schedule				
Symbol	Plant Type	Botanical Name	Common Name	Height/Width
	Small Coniferous Tree	Juniperus communis Pinus edulis	Common Juniper Pinyon Pine	20' / 10'-15'
	Clumping Shrub	Frangula californica Eriodictyon crassifolium Heteromeles arbutifolia Larrea tridentata	Coffeeberry Thickleaf Yerba Santa Christmas Berry	4'-6' / 3'-6'
	Ornamental Perennial	Eschscholzia californica Leptosyne gigantea Romneya coulteri Eriophyllum lanatum Erysimum concinnum	California Poppy Giant Coreopsis Coulter's Matilija Poppy Common Woolly Sunflower Curly Wallflower	2' / 1'6"-2'

VACA DIXON BESS SYSTEM DESCRIPTION	
SYSTEM SIZE	57 MW AC 1 HR RATING
BESS UNIT (SYL SU3794U379KC) QUANTITY (FUTURE)	21 (8)
DELTA PCS2580 MV POWER STATION QUANTITY (FUTURE)	21 (8)
CONFIGURATION	1 BESS UNIT PER PCS INVERTER SKID



**NOTES**

- ALL EXISTING TOPOGRAPHY AND PHYSICAL FEATURES AS SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND AERIALS.
- PROPERTY BOUNDARIES, EASEMENTS, AND RIGHTS-OF-WAY AS SHOWN ARE FROM THE BOUNDARY LINE ESTABLISHMENT SHEET EXHIBIT 'B' BY KIMLEY HORN & ASSOCIATES, INC. DATED AUGUST 2025 AND THE FILE "195639002VBM.dwg" PROVIDED BY MRP.
- ACCORDING TO FEMA FLOOD INSURANCE RATE MAP: SOLANO COUNTY, CALIFORNIA, MAP NUMBER 06095C0168E, PANEL 168 OF 730, EFFECTIVE DATE MAY 4, 2009, THE PROPERTY IS LOCATED WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE (500-YEAR) FLOODPLAIN.

**PROJECT DATA**

PROJECT ADDRESS: KILKENNY ROAD  
CITY OF VACAVILLE  
SOLANO COUNTY, CA, 95377

APN: 0133060060

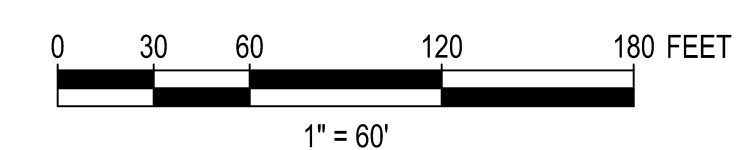
PROJECT COORDINATES: 37.7121°, -121.4901°

PROPERTY ACRES: 10.02 ±

ZONING: BUSINESS PARK (BP)

**LEGEND**

- SUBJECT PROPERTY BOUNDARY
- LEASE BOUNDARY
- SETBACK LINES
- OHL EXISTING OVERHEAD LINE
- EXISTING MINOR CONTOUR (1 INTERVAL)
- EXISTING MAJOR CONTOUR (5' INTERVAL)
- 7' FENCE
- OVERHEAD ELECTRIC LINE
- FIRE WATER LINE
- BESS BATTERY ENERGY STORAGE SYSTEM
- ROAD SURFACING
- GRAVEL SURFACING
- STORMWATER MANAGEMENT AREA
- PROPOSED BESS UNIT
- FUTURE BESS UNIT
- PROPOSED PCS
- FUTURE PCS
- MV TRANSFORMER
- FUTURE MV TRANSFORMER
- FIRE HYDRANT



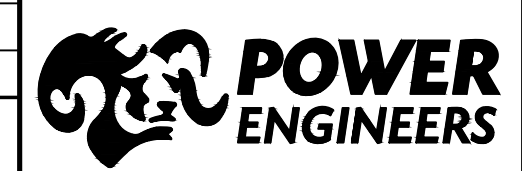
SP-101.DWG  
THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT, REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

**CONCEPTUAL ONLY**

NOT FOR CONSTRUCTION

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
B	ISSUED FOR INFORMATION	12/18/2025	JMM	SMT	TWH		
A	ISSUED FOR INFORMATION	11/24/2025	JMM	SMT	TWH		

DSGN	SMT	07/03/2025
DRN	JMM	07/03/2025
CKD	TWH	07/08/2025
SCALE:	1"=60'	
FOR 22x34 DWG ONLY		

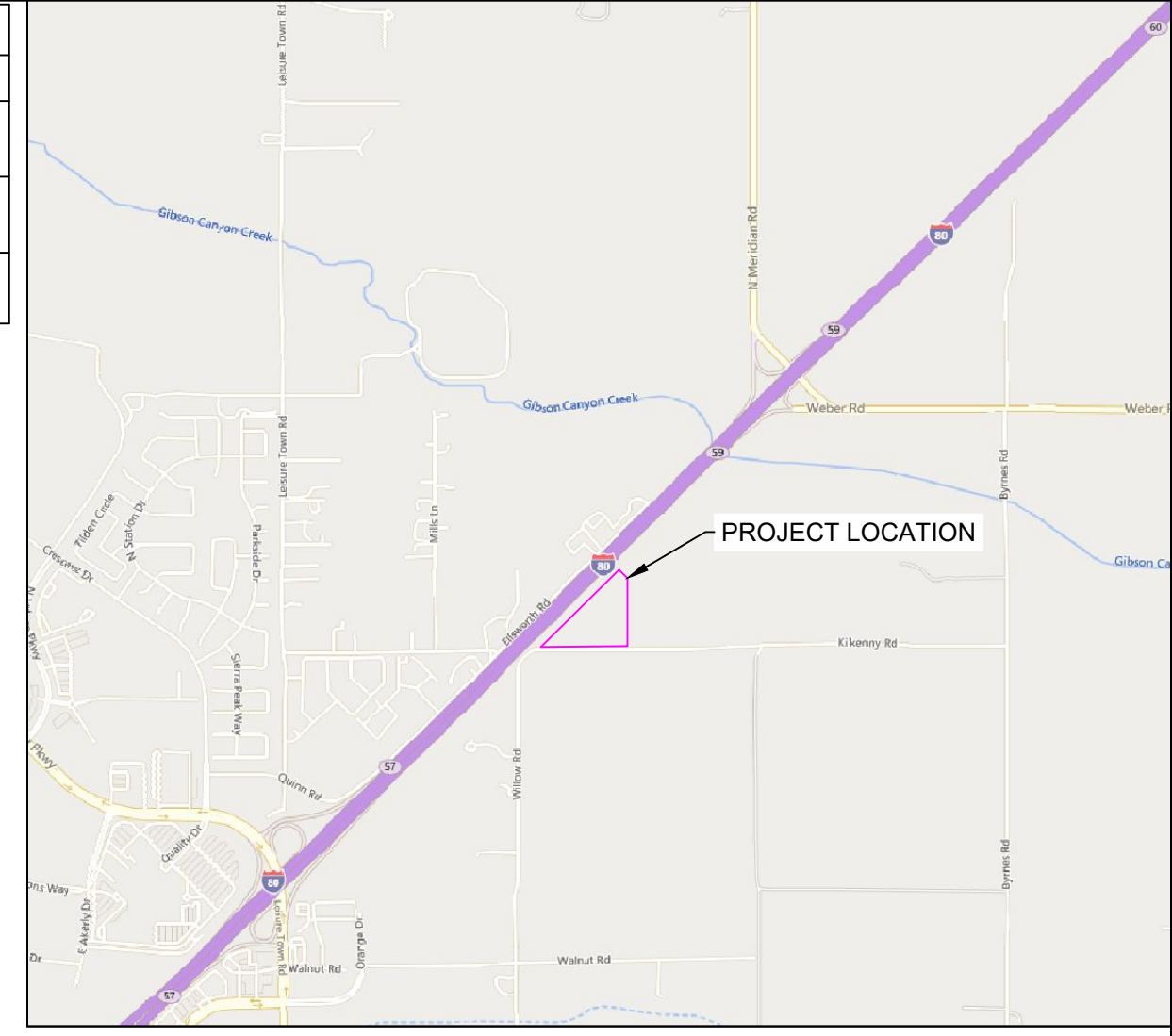


MIDDLE RIVER POWER	JOB NUMBER	REV
VACA DIXON & ARGES BESS	0256726	△
VACA DIXON BESS SITE LAYOUT PLAN	DRAWING NUMBER	SP-101



Conceptual Plant Schedule				
Symbol	Plant Type	Botanical Name	Common Name	Height/Width
	Small Coniferous Tree	Juniperus communis Pinus edulis	Common Juniper Pinyon Pine	20' / 10'-15'
	Clumping Shrub	Frangula californica Eriodictyon crassifolium Heteromeles arbutifolia Larrea tridentata	Coffeeberry Thickleaf Yerba Santa Christmas Berry	4'-6' / 3'-6'
	Ornamental Perennial	Eschscholzia californica Leptosyne gigantea Romneya coulteri Eriophyllum lanatum Erysimum concinnum	California Poppy Giant Coreopsis Coulter's Matilija Poppy Common Woolly Sunflower Curly Wallflower	2' / 1'6"-2'

ARGES BESS SYSTEM DESCRIPTION	
SYSTEM SIZE	100 MW AC 4 HR RATING
BESS UNIT (SYL 0.25C 5016 KWh) QUANTITY (FUTURE)	100 (28)
DELTA PCS2580 MV POWER STATION QUANTITY (FUTURE)	25 (7)
CONFIGURATION	4 BESS UNIT PER PCS INVERTER SKID



- NOTES**
- ALL EXISTING TOPOGRAPHY AND PHYSICAL FEATURES AS SHOWN ARE FROM PUBLICLY AVAILABLE DATA AND AERIALS.
  - PROPERTY BOUNDARIES, EASEMENTS, AND RIGHTS-OF-WAY AS SHOWN ARE FROM THE BOUNDARY LINE ESTABLISHMENT SHEET EXHIBIT 'B' BY KIMLEY HORN & ASSOCIATES, INC. DATED AUGUST 2025 AND THE FILE "195639002VBM.dwg" PROVIDED BY MRP.
  - ACCORDING TO FEMA FLOOD INSURANCE RATE MAP: SOLANO COUNTY, CALIFORNIA, MAP NUMBER 06095C0168E, PANEL 168 OF 730, EFFECTIVE DATE MAY 4, 2009, THE PROPERTY IS LOCATED WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE (500-YEAR) FLOODPLAIN.

**PROJECT DATA**

PROJECT ADDRESS: KILKENNY ROAD  
CITY OF VACAVILLE  
SOLANO COUNTY, CA, 95377

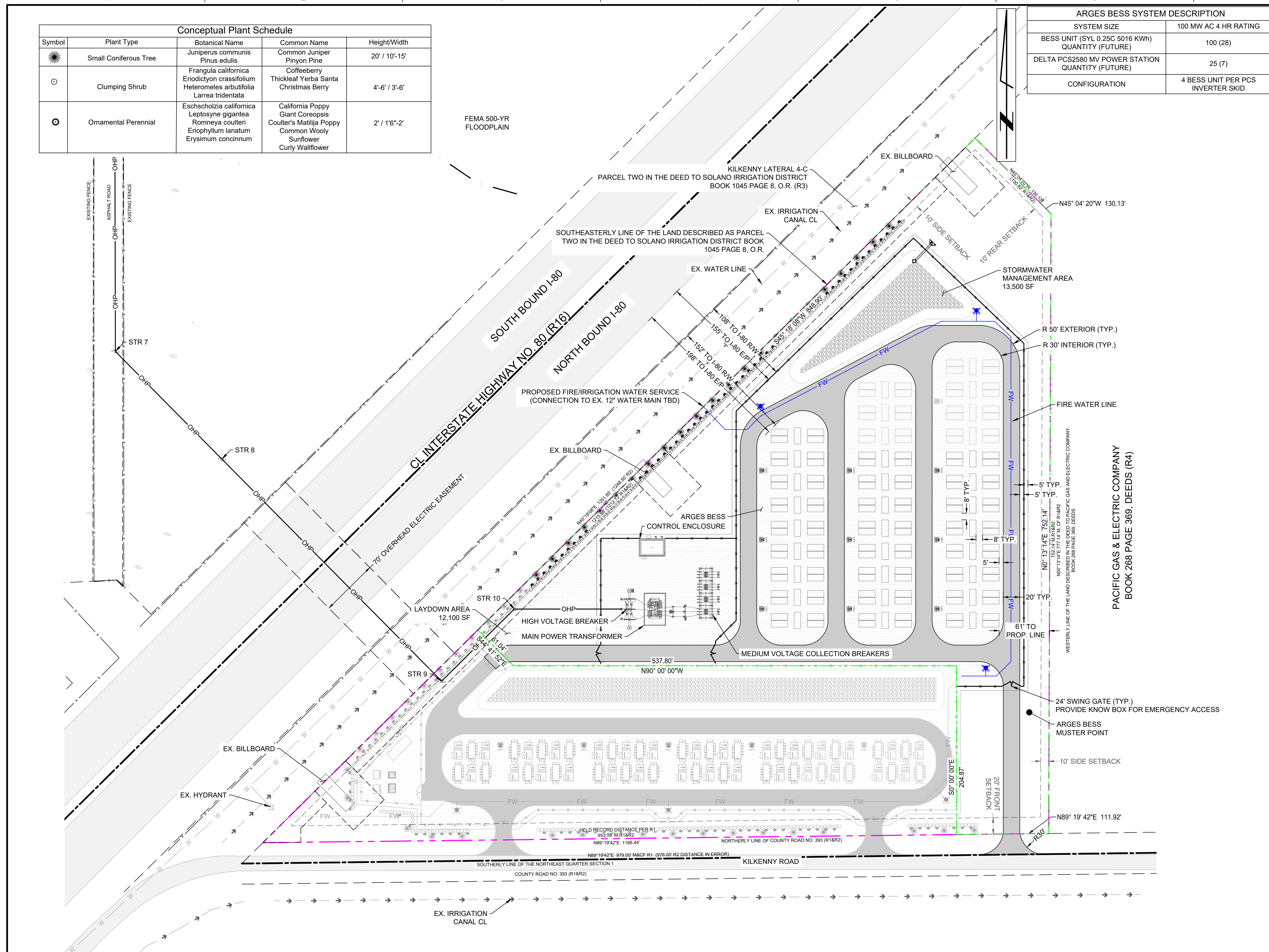
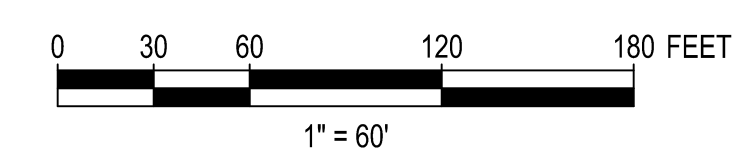
APN: 0133060060

PROJECT COORDINATES: 37.7121°, -121.4901°

PROPERTY ACRES: 10.02 ±

ZONING: BUSINESS PARK (BP)

- LEGEND**
- SUBJECT PROPERTY BOUNDARY
  - LEASE BOUNDARY
  - SETBACK LINES
  - OHL EXISTING OVERHEAD LINE
  - EXISTING MINOR CONTOUR (1 INTERVAL)
  - EXISTING MAJOR CONTOUR (5' INTERVAL)
  - 7' FENCE
  - OVERHEAD ELECTRIC LINE
  - FIRE WATER LINE
  - BESS BATTERY ENERGY STORAGE SYSTEM
  - ROAD SURFACING
  - GRAVEL SURFACING
  - STORMWATER MANAGEMENT AREA
  - PROPOSED 4 BATTERY X 1 PCS CHAIN
  - FUTURE 4 BATTERY X 1 PCS CHAIN
  - MV TRANSFORMER
  - FUTURE MV TRANSFORMER
  - FIRE HYDRANT



SP-102 DWG

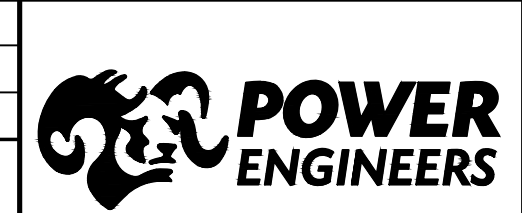
THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT. MAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT, REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

CONCEPTUAL ONLY

NOT FOR CONSTRUCTION

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
B	ISSUED FOR INFORMATION	12/18/2025	JMM	SMT	TWH		
A	ISSUED FOR INFORMATION	11/24/2025	JMM	SMT	TWH		

DSGN	SMT	07/03/2025
DRN	JMM	07/03/2025
CKD	TWH	07/08/2025
SCALE:	1"=60'	
FOR 22x34 DWG ONLY		

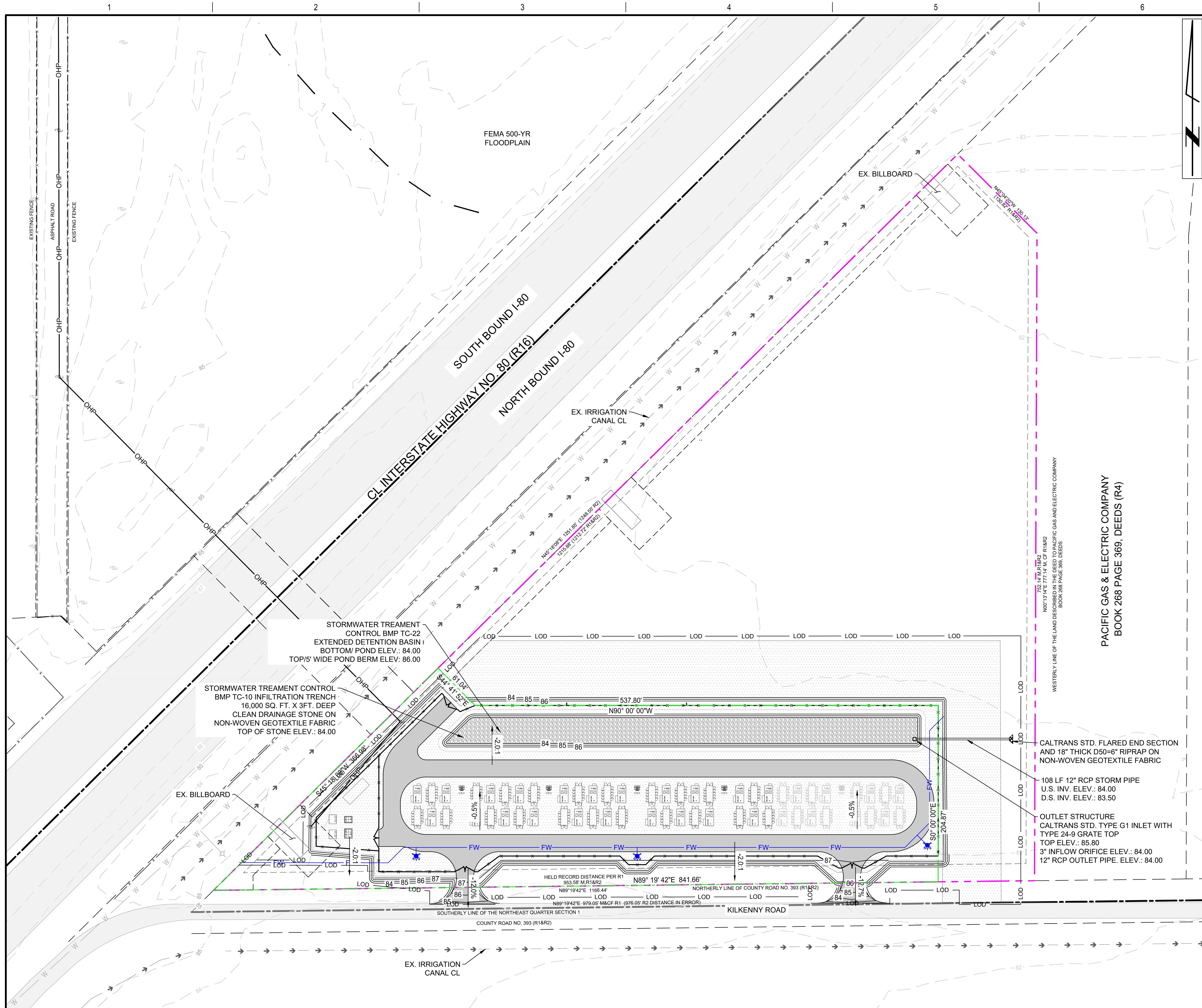


MIDDLE RIVER POWER	JOB NUMBER	REV
VACA DIXON & ARGES BESS	0256726	△
ARGES BESS SITE LAYOUT PLAN	DRAWING NUMBER	SP-102









**GRADING NOTES**

1. ALL ELEVATIONS ARE IN US FEET, VERTICAL DATUM NAVD88. CONTOURS SHOWN FOR THE SUBSTATION AND BESS SITE GRADING ARE SUBGRADE ELEVATIONS. SUBGRADE REPRESENTED BY TOP OF DIRT WITHIN THE STATION AND BESS FENCE, TOP OF ROAD STONE, TOP OF DRAINAGE STONE, OR TOP OF TOPSOIL OUTSIDE THE FENCE.
2. EXISTING AND PROPOSED CONTOURS ARE SHOWN AT 1' INTERVALS.
3. THE TOP LAYER OF UNSUITABLE ORGANIC TOPSOIL MATERIAL WITHIN THE GRADING LIMITS SHALL BE STRIPPED TO A MINIMUM DEPTH OF 6 INCHES AND DISPOSED OF OFF SITE TO THE OWNER'S DESIGNATED PLACE.
4. FOR GEOTECHNICAL INFORMATION REFER TO THE GEOTECHNICAL ENGINEERING REPORT.
5. NON-WOVEN GEOTEXTILE FABRIC TO BE PLACED BENEATH ROADS AND RIPRAP.

**ESTIMATED QUANTITIES**

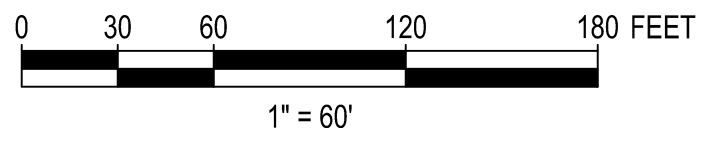
EARTHWORK QUANTITIES SHOWN ARE ESTIMATES ONLY AND ARE IN BANK CUBIC YARDS WITH NO ALLOWANCE FOR SHRINK OR SWELL. IN THE ABSENCE OF GEOTECHNICAL RECOMMENDATIONS, ASSUMPTIONS HAVE BEEN MADE TO GENERATE THESE QUANTITIES AND ARE SUBJECT TO CHANGE. THE CONTRACTORS SHALL CALCULATE THEIR OWN ITEMIZED EARTHWORK AND MATERIAL QUANTITIES FOR THIS PROJECT. QUANTITIES DO NOT INCLUDE EXCAVATED OR FILL MATERIAL FOR FOUNDATION WORK.

**VACA DIXON BESS**

LIMITS OF CONSTRUCTION (DISTURBED AREA)	5.27	AC.
TOPSOIL (ORGANICS, 6") REMOVAL	4,160	C.Y.
REDISTRIBUTED OR STOCKPILED TOPSOIL (6")	520	C.Y.
ASPHALT DRIVE (4")	420	C.Y.
NONWOVEN GEOTEXTILE FABRIC	5,525	S.Y.
IMPORTED AGGREGATE BASE COURSE (12")	1,250	C.Y.
IMPORTED FINISH YARD ROCK (4")	880	C.Y.
IMPORTED STRUCTURAL FILL	11,365	C.Y.
12" Ø STORM PIPE	108	L.F.
2" DIAMETER WASHED DRAINAGE STONE	1,780	C.Y.

**LEGEND**

- SUBJECT PROPERTY BOUNDARY (10.05 ACRES)
- LEASE BOUNDARY
- SETBACK LINES
- OHL EXISTING OVERHEAD LINE
- 84 EXISTING MINOR CONTOUR (1' INTERVAL)
- 85 EXISTING MAJOR CONTOUR (5' INTERVAL)
- x x x 7' FENCE
- OHP OVERHEAD ELECTRIC LINE
- FW FIRE WATER LINE
- BESS BATTERY ENERGY STORAGE SYSTEM
- ROAD SURFACING
- GRAVEL SURFACING
- STORMWATER MANAGEMENT AREA



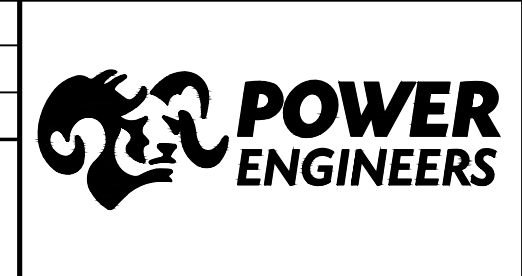
THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT, REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

CONCEPTUAL ONLY

NOT FOR CONSTRUCTION

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
B	ISSUED FOR INFORMATION	12/18/2025	JMM	SMT	TWH		
A	ISSUED FOR INFORMATION	12/01/2025	JMM	SMT	TWH		

DSGN	SMT	07/08/2025
DRN	JMM	07/08/2025
CKD	TWH	07/08/2025
SCALE:	1"=60'	

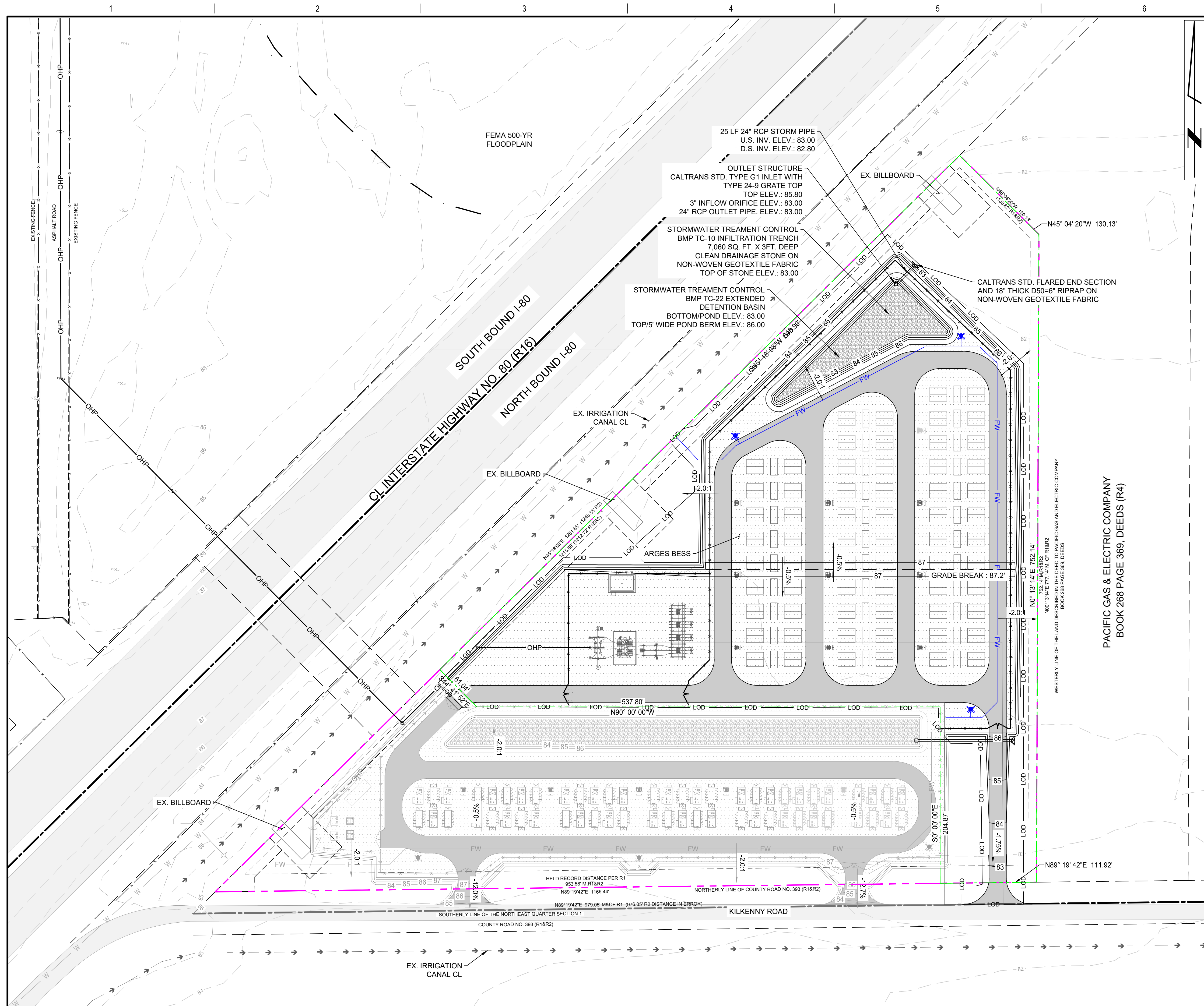


MIDDLE RIVER POWER	JOB NUMBER	REV
VACA DIXON & ARGES BESS	0256726	△
VACA DIXON BESS GRADING & DRAINAGE PLAN	DRAWING NUMBER	GP-101

GP-101.DWG

FOR 22x34 DWG ONLY





**GRADING NOTES**

1. ALL ELEVATIONS ARE IN US FEET, VERTICAL DATUM NAVD88. CONTOURS SHOWN FOR THE SUBSTATION AND BESS SITE GRADING ARE SUBGRADE ELEVATIONS. SUBGRADE REPRESENTED BY TOP OF DIRT WITHIN THE STATION AND BESS FENCE, TOP OF ROAD STONE OR TOP OF TOPSOIL OUTSIDE THE FENCE.
2. EXISTING AND PROPOSED CONTOURS ARE SHOWN AT 1' INTERVALS.
3. THE TOP LAYER OF UNSUITABLE ORGANIC TOPSOIL MATERIAL WITHIN THE GRADING LIMITS SHALL BE STRIPPED TO A MINIMUM DEPTH OF 6 INCHES AND DISPOSED OF OFF SITE TO THE OWNER'S DESIGNATED PLACE.
4. FOR GEOTECHNICAL INFORMATION REFER TO THE GEOTECHNICAL ENGINEERING REPORT.
5. NON-WOVEN GEOTEXTILE FABRIC TO BE PLACED BENEATH ROADS AND RIPRAP.

**ESTIMATED QUANTITIES**

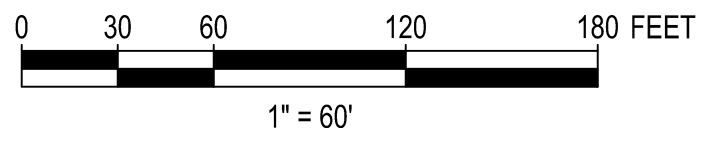
EARTHWORK QUANTITIES SHOWN ARE ESTIMATES ONLY AND ARE IN BANK CUBIC YARDS WITH NO ALLOWANCE FOR SHRINK OR SWELL. IN THE ABSENCE OF GEOTECHNICAL RECOMMENDATIONS, ASSUMPTIONS HAVE BEEN MADE TO GENERATE THESE QUANTITIES AND ARE SUBJECT TO CHANGE. THE CONTRACTORS SHALL CALCULATE THEIR OWN ITEMIZED EARTHWORK AND MATERIAL QUANTITIES FOR THIS PROJECT. QUANTITIES DO NOT INCLUDE EXCAVATED OR FILL MATERIAL FOR FOUNDATION WORK.

**ARGES BESS**

LIMITS OF CONSTRUCTION (DISTURBED AREA)	5.31	AC.
TOPSOIL (ORGANICS, 6") REMOVAL	4,280	C.Y.
REDISTRIBUTED OR STOCKPILED TOPSOIL (6")	400	C.Y.
ASPHALT DRIVE (4")	670	C.Y.
NONWOVEN GEOTEXTILE FABRIC	6,760	S.Y.
IMPORTED AGGREGATE BASE COURSE (12")	1,990	C.Y.
IMPORTED FINISH YARD ROCK (4")	1,510	C.Y.
IMPORTED STRUCTURAL FILL	29,670	C.Y.
24" Ø STORM PIPE	25	L.F.
2" DIAMETER WASHED DRAINAGE STONE	785	C.Y.

**LEGEND**

- SUBJECT PROPERTY BOUNDARY (10.05 ACRES)
- LEASE BOUNDARY
- SETBACK LINES
- OHL EXISTING OVERHEAD LINE
- 84 EXISTING MINOR CONTOUR (1' INTERVAL)
- 85 EXISTING MAJOR CONTOUR (5' INTERVAL)
- x x x 7' FENCE
- OHP OVERHEAD ELECTRIC LINE
- FW FIRE WATER LINE
- BESS BATTERY ENERGY STORAGE SYSTEM
- ROAD SURFACING
- GRAVEL SURFACING
- STORMWATER MANAGEMENT AREA



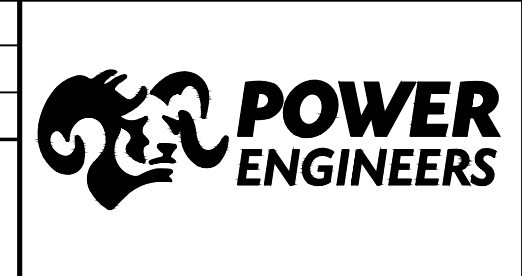
THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT. FAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT, REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

CONCEPTUAL ONLY

NOT FOR CONSTRUCTION

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
B	ISSUED FOR INFORMATION	12/18/2025	JMM	SMT	TWH		
A	ISSUED FOR INFORMATION	12/01/2025	JMM	SMT	TWH		

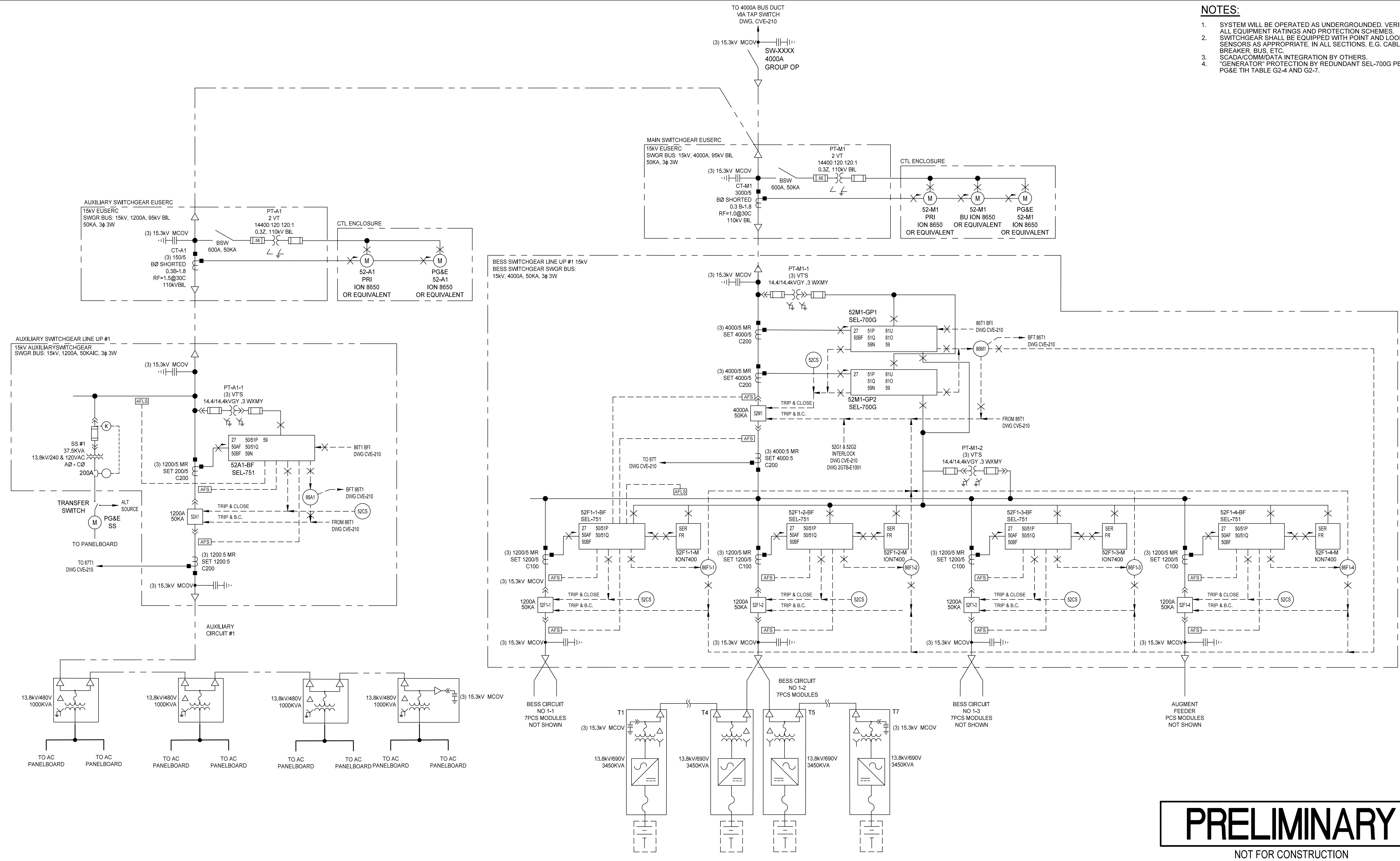
DSGN	SMT	07/08/2025
DRN	JMM	07/08/2025
CKD	TWH	07/08/2025
SCALE:	1"=60'	
FOR 22x34 DWG ONLY		



MIDDLE RIVER POWER	JOB NUMBER	REV
VACA DIXON & ARGES BESS	0256726	△
ARGES BESS GRADING & DRAINAGE PLAN	DRAWING NUMBER	GP-102



- NOTES:**
1. SYSTEM WILL BE OPERATED AS UNDERGROUNDED. VERIFY ALL EQUIPMENT RATINGS AND PROTECTION SCHEMES.
  2. SWITCHGEAR SHALL BE EQUIPPED WITH POINT AND LOOP SENSORS AS APPROPRIATE, IN ALL SECTIONS, E.G. CABLE, BREAKER, BUS, ETC.
  3. SCADA/COMM/DATA INTEGRATION BY OTHERS.
  4. "GENERATOR" PROTECTION BY REDUNDANT SEL-700G PER PG&E TIH TABLE G2-4 AND G2-7.

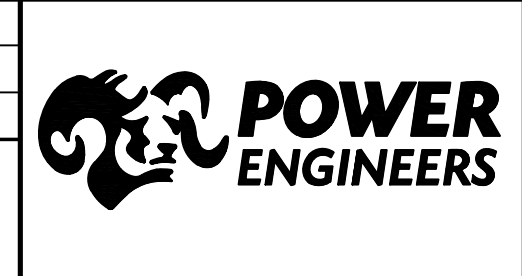


**PRELIMINARY**

NOT FOR CONSTRUCTION

E08-01-01.DWG  
THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT. TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

E	UPDATED PER NEW REQUIREMENTS JOB #0256726	10/13/2025	SLM	WSH	TWH	TWH			DSGN	ARL	10/27/23
D	REVISED PER CLIENT COMMENTS	02/25/24	ARL	ARL					DRN	ARL	10/27/23
C	REVISED PER CLIENT COMMENTS	02/08/24	ARL	ARL					CKD		
B	REISSUE FOR REVIEW	11/07/2023	ARL	ARL					SCALE:	N/A	
A	ISSUED FOR REVIEW	10/27/23	ARL	ARL							
REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD					



MIDDLE RIVER POWER	JOB NUMBER	REV
VACA DIXON	246909	E
SINGLE LINE DIAGRAM VACA DIXON BESS 1	DRAWING NUMBER	E08-01-01

FOR 22x34 DWG ONLY



IDC PROJECT NO: 8179	CLIENT PROJECT NO:
DRAWN:	REVIEWED:
DESIGNED:	APPROVED:
NOTICE:	STAMP:

**GENERAL NOTES**

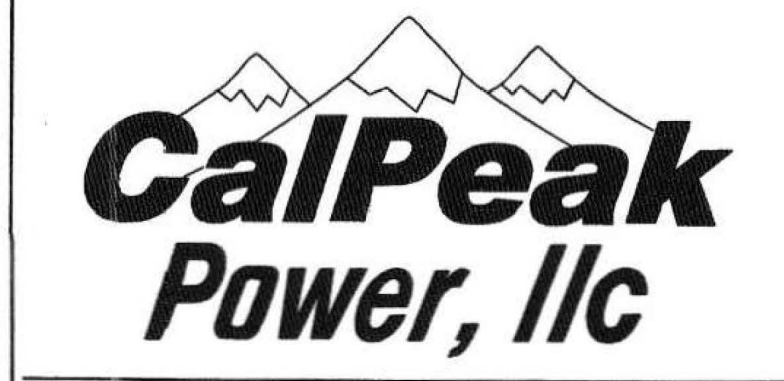
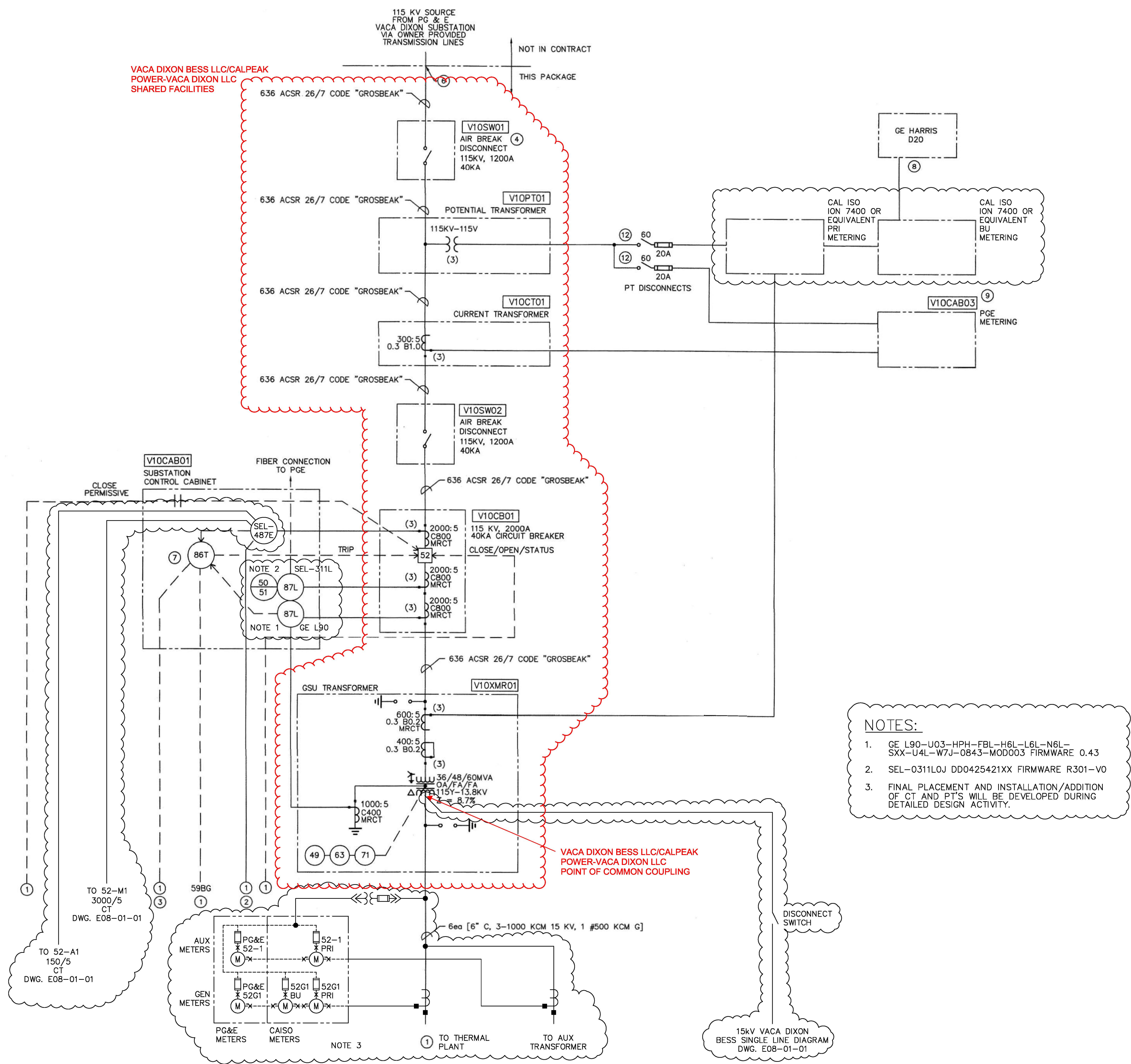
- A SEE DRAWING CVE-0001 FOR ELECTRICAL SYMBOL LEGEND AND ABBREVIATIONS.
- B SEE DRAWING CVE-0300 FOR BLOCK DIAGRAM AND RACEWAY SCHEDULE.
- C SEE DRAWING CVE-0600 FOR ANNUNCIATOR WIRING.

**KEYED NOTES**

- 1 SEE P & W DRAWING 0015-185-E100D.
- 2 TO DIFFERENTIAL CTS.
- 3 TRIP FOR MAIN CIRCUIT BEAKER.
- 4 MOUNT ON DEAD END STRUCTURE.
- 5 DELETED
- 6 POINT OF DEMARCATION IS POST TENSION INSULATOR. PROVIDE ADDITIONAL MATERIALS TO COMPLETE SUBSTATION CIRCUIT. VALIDATE PHASE ROTATION OF IN-PLANT DISTRIBUTION MATCHES UTILITY PRIOR TO TERMINATION.
- 7 125V DC CONTROLS. PROVIDE TERMINAL BOARD FOR FOUR CIRCUITS WITH DISCONNECTS ONE CIRCUIT PROVIDED FOR CABINET.
- 8 RTU PROVIDED BY UTILITY. UNIT TRANSMITS VOLTAGE, KW, KVAR, BREAKER, PSS AND REGULATOR STATUS.
- 9 PROVIDE METERING CABINET PER PGE STANDARDS.
- 10 DELETED
- 11 NOT USED.
- 12 HEAVY DUTY 60A FUSED DISCONNECT.

**NOTES:**

1. GE L90-U03-HPH-FBL-H6L-L6L-N6L-SXX-U4L-W7J-0843-MOD003 FIRMWARE 0.43
2. SEL-0311LOJ DD0425421XX FIRMWARE R301-V0
3. FINAL PLACEMENT AND INSTALLATION/ADDITION OF CT AND PT'S WILL BE DEVELOPED DURING DETAILED DESIGN ACTIVITY.

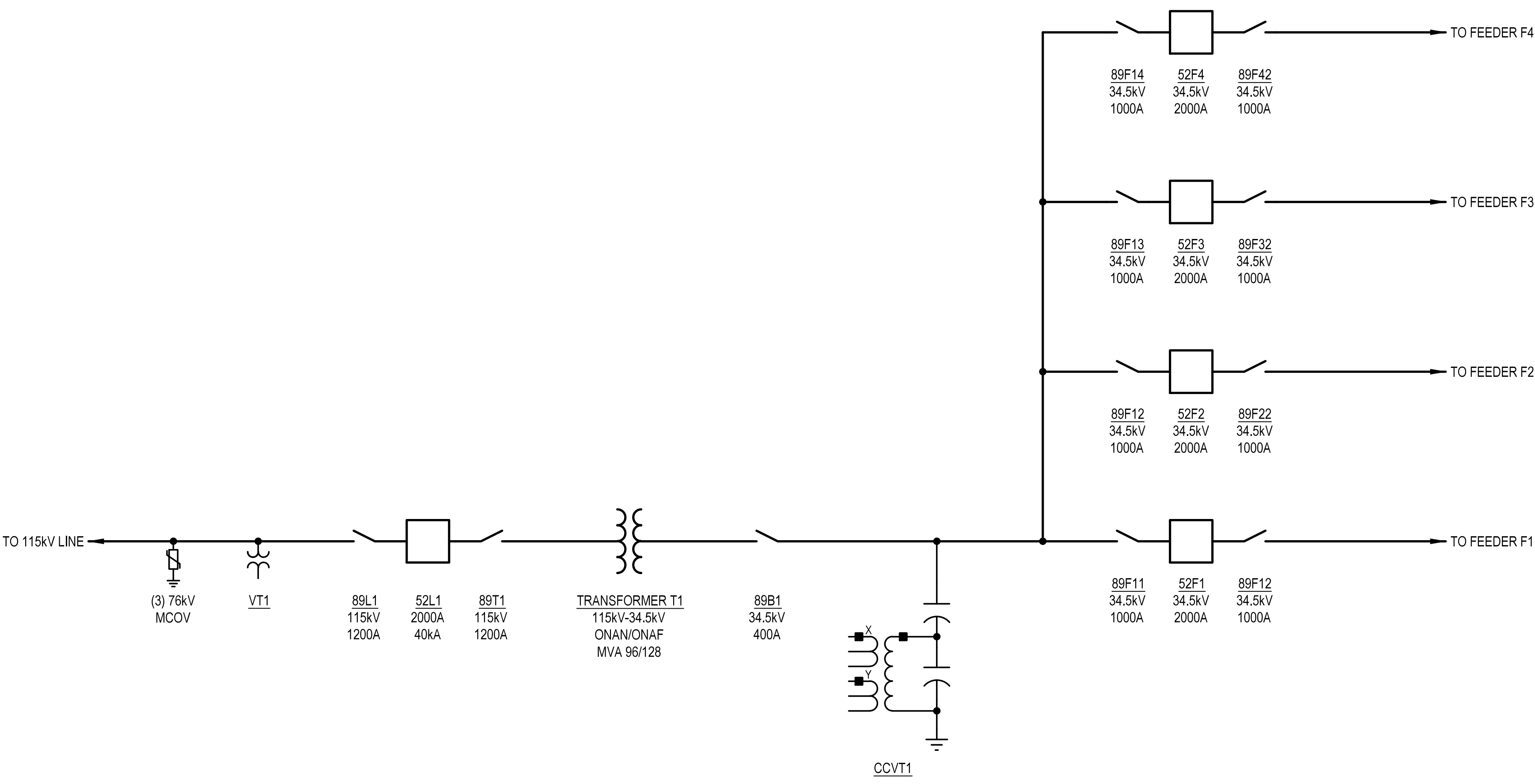


**VACA DIXON - ELECTRICAL ONE-LINE DIAGRAM INCOMING FEEDER**

DATE ISSUED: ACAD FILE: CVE-0210 DRAWING SCALE: 1"=1"  
 DRAWING NUMBER: **CVE-0210**

NO.	REVISION OR ISSUE	DATE	BY
5	DRB#V011 - GEN UPDATE & RFI'S	02/01/02	TB
4	DRB#V009 - GEN UPDATE & RFI'S	01/10/02	TB
3	DRB#V008 - GEN UPDATE & RFI'S	11/09/01	TB
2	DRB#V002 - GEN UPDATE & RFI'S	08/29/01	TB
1	DRB#V001 - GEN UPDATE & RFI'S	07/10/01	TB
0	ISSUE FOR PERMIT	06/06/01	TB





E01-01-01.dwg

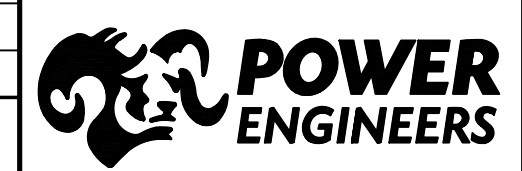
THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT, TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. REUSE OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

CONCEPTUAL ONLY

NOT FOR CONSTRUCTION

REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS

DSGN	JDJ	11/21/2025
DRN	DW	11/21/2025
CKD	TWH	11/21/2025
SCALE:		NONE
FOR 22x34 DWG ONLY		



MIDDLE RIVER POWER	JOB NUMBER	REV
ARGES BESS	0256726	△
115kV-34.5kV SUBSTATION ONE-LINE	DRAWING NUMBER	
E01-01-01		



**PROJECT DATA**

PROJECT ADDRESS: KILKENNY ROAD  
 CITY OF VACAVILLE  
 SOLANO COUNTY, CA, 95377  
 APN: 0133060060  
 PROJECT COORDINATES: 37.7121°, -121.4901°  
 PROPERTY ACRES: 10.02 ±  
 ZONING: BUSINESS PARK (BP)

**LEGEND**

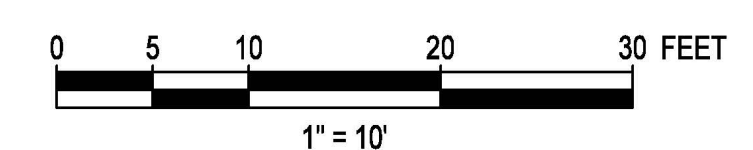
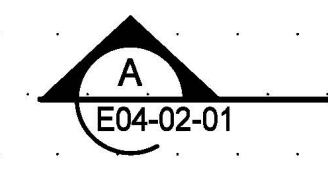
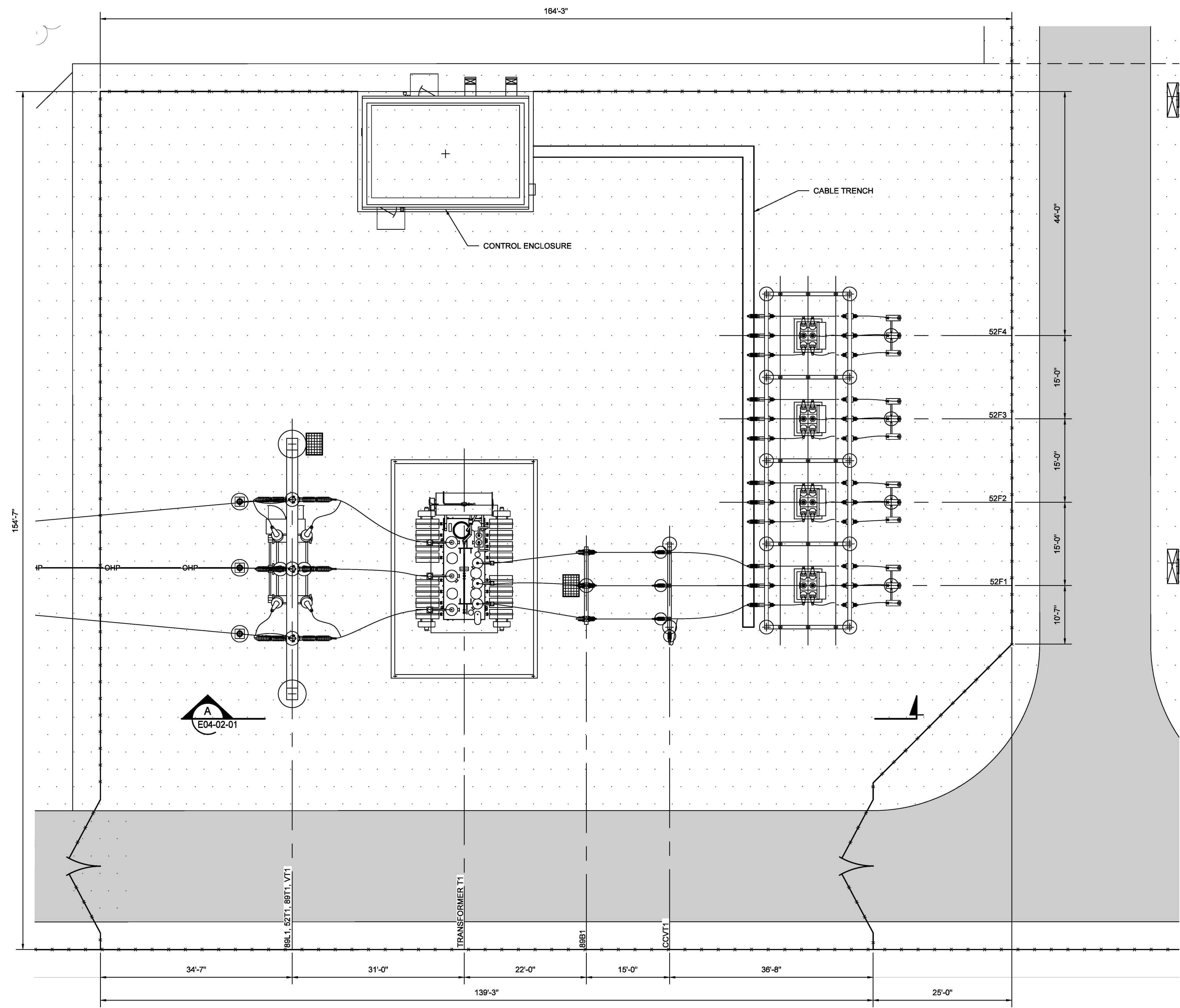
- 7' FENCE
- ROAD SURFACING
- GRAVEL SURFACING
- 4x6 SWITCH OPERATOR PLATFORM

**NOTES**

1. MAIN DRIVING GATES ARE SLIDING GATES.
2. EQUIPMENT OUTLINES ARE PRELIMINARY AND SUBJECT TO CHANGE AS VENDOR DRAWINGS ARE FINALIZED.
3. FENCE DESIGN ON HOLD AND MAY CHANGE BASED ON TYPE/SCALE OF FENCE REQUIRED.

**SUBSTATION NOTES**

1. SUBSTATION FOOTPRINT SIZE SHOWN IN THIS DRAWING IS BASED OFF CLIENT PROVIDED DATA SHOWN IN "SP-100" AND DRAWING "E04-01-02" REVISION A.
2. DIMENSIONS ARE PRELIMINARY AND SHALL BE FURTHER COORDINATED WITH GRADING DESIGNS BY OTHERS AFTER THE 30% DESIGN FOR FINAL SUBSTATION PAD SIZING, FENCE PLACEMENT, AND GATE LOCATIONS.



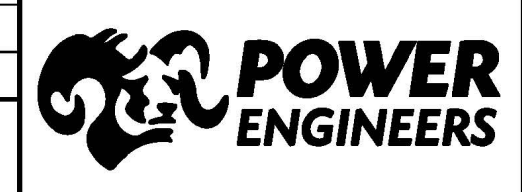
E04-01-01.DWG  
 THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT, TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. RELIEF OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

CONCEPTUAL ONLY

NOT FOR CONSTRUCTION

REV	ISSUED FOR INFORMATION	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
A	ISSUED FOR INFORMATION	11/21/2025	DW	JDJ	TWH		

DSGN	JDJ	11/21/2025
DRN	DW	11/21/2025
CKD	TWH	11/21/2025
SCALE:		1"=10'
FOR 22x34 DWG ONLY		



MIDDLE RIVER POWER	JOB NUMBER	REV
ARGES BESS	0256726	A
115kV-34.5kV SUBSTATION SITE PLAN		DRAWING NUMBER
		E04-01-01

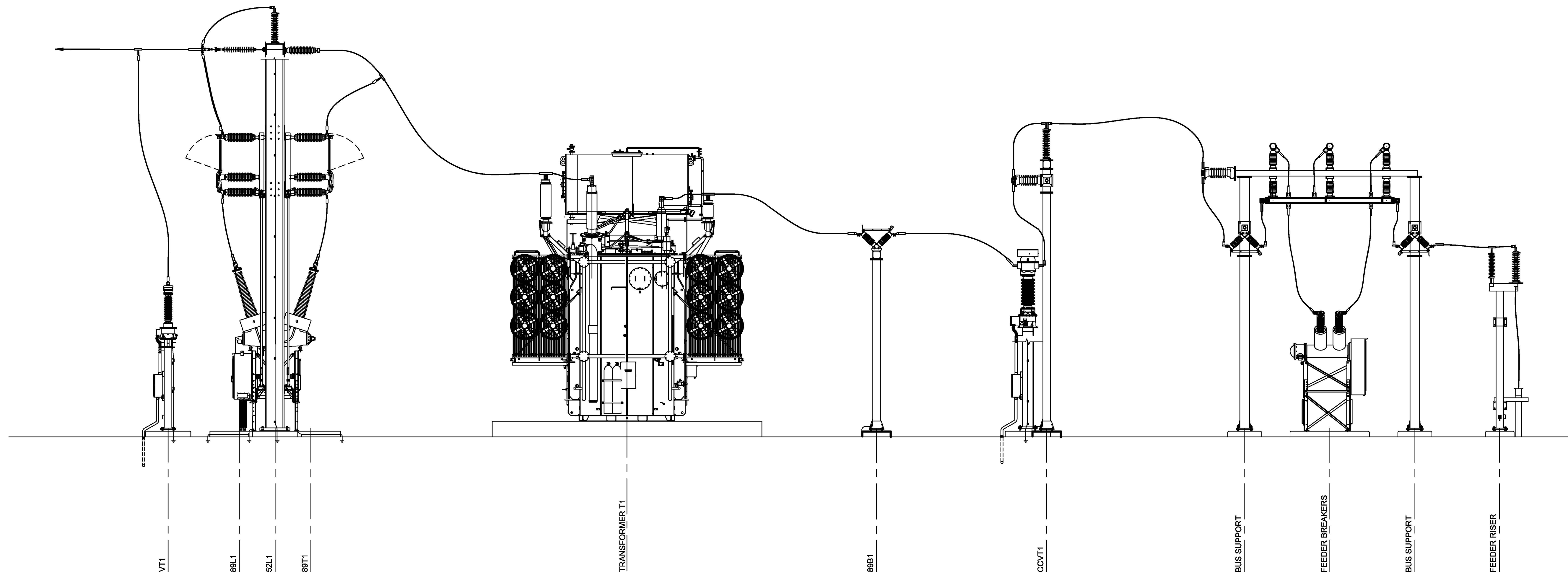


**PROJECT DATA**

PROJECT ADDRESS: KILKENNY ROAD  
 CITY OF VACAVILLE  
 SOLANO COUNTY, CA, 95377  
 APN: 0133060060  
 PROJECT COORDINATES: 37.7121°, -121.4901°  
 PROPERTY ACRES: 10.02 ±  
 ZONING: BUSINESS PARK (BP)

**SUBSTATION NOTES**

- SUBSTATION FOOTPRINT SIZE SHOWN IN THIS DRAWING IS BASED OFF CLIENT PROVIDED DATA SHOWN IN "SP-100" AND DRAWING "E04-01-01" REVISION A.
- DIMENSIONS ARE PRELIMINARY AND SHALL BE FURTHER COORDINATED WITH GRADING DESIGNS BY OTHERS AFTER THE 30% DESIGN FOR FINAL SUBSTATION PAD SIZING, FENCE PLACEMENT, AND GATE LOCATIONS.



SECTION A  
 SCALE 1"=5' E04-01-01



E04-02-01.DWG

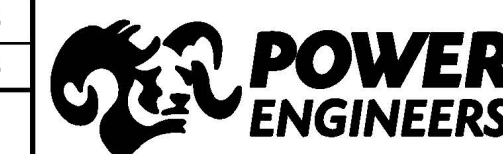
THIS DRAWING WAS PREPARED BY POWER ENGINEERS, INC. FOR A SPECIFIC PROJECT, TAKING INTO CONSIDERATION THE SPECIFIC AND UNIQUE REQUIREMENTS OF THE PROJECT. RELIEF OF THIS DRAWING OR ANY INFORMATION CONTAINED IN THIS DRAWING FOR ANY PURPOSE IS PROHIBITED UNLESS WRITTEN PERMISSION FROM BOTH POWER AND POWER'S CLIENT IS GRANTED.

**CONCEPTUAL ONLY**

NOT FOR CONSTRUCTION

REV	ISSUED FOR INFORMATION	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS
A	ISSUED FOR INFORMATION	11/21/2025	DW	JDJ	TWH		
	REVISIONS	DATE	DRN	DSGN	CKD	APPD	REFERENCE DRAWINGS

DSGN	JDJ	11/21/2025
DRN	DW	11/21/2025
CKD	TWH	11/21/2025
SCALE:	1"=5'	
FOR 22x34 DWG ONLY		



MIDDLE RIVER POWER
ARGES BESS
115KV-34.5KV SUBSTATION ELEVATION

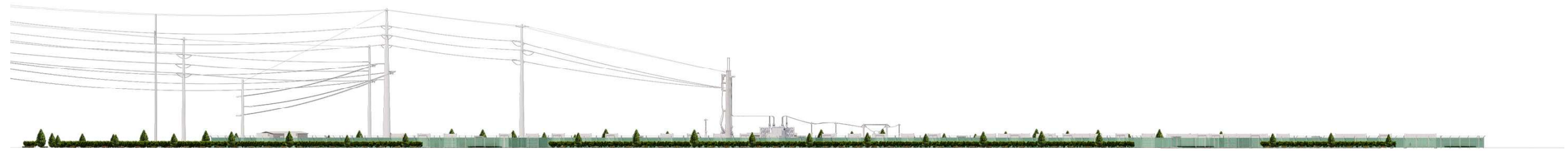
JOB NUMBER	REV
0256726	A
DRAWING NUMBER	
E04-02-01	







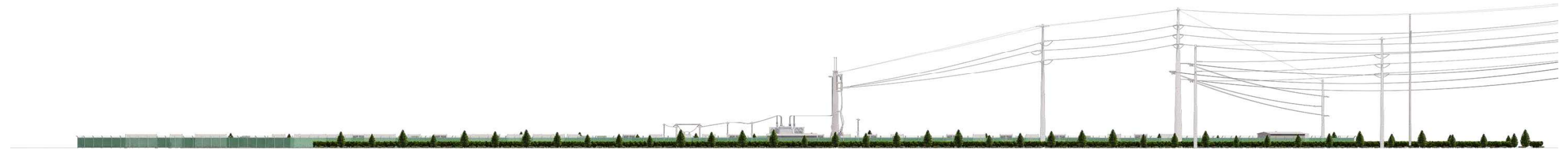
A



B



C



D





