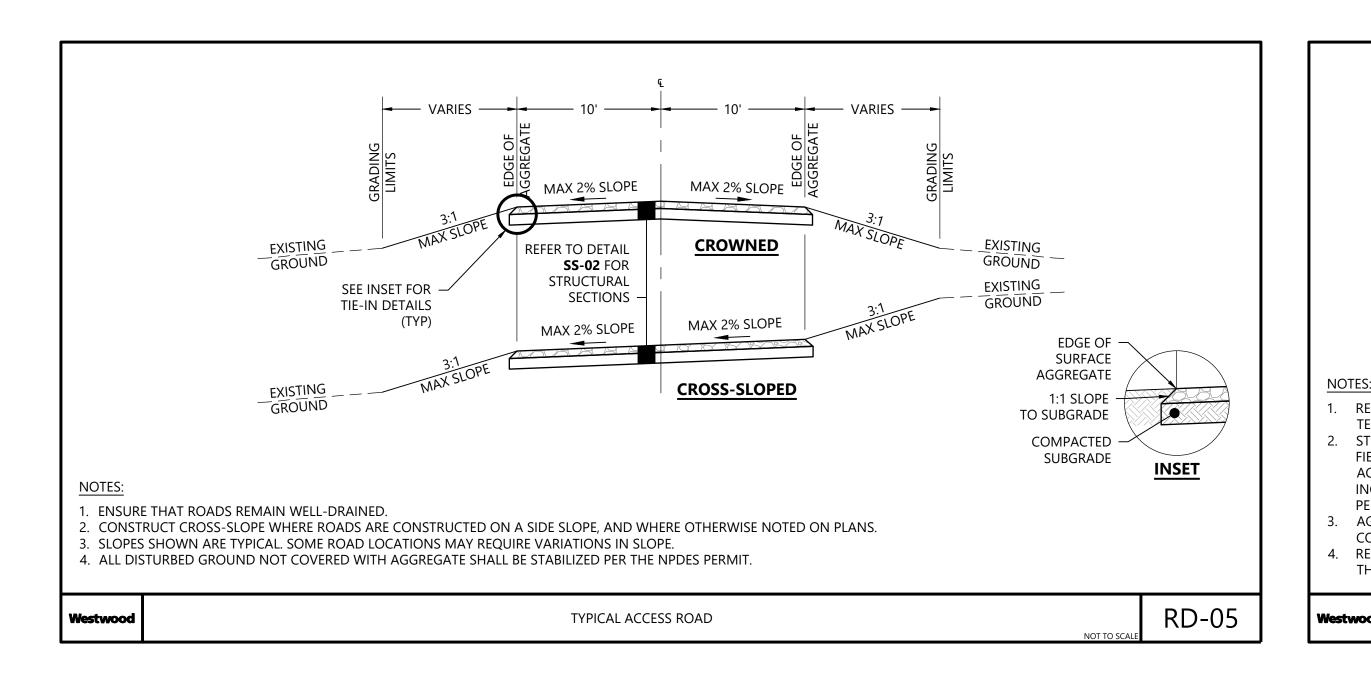
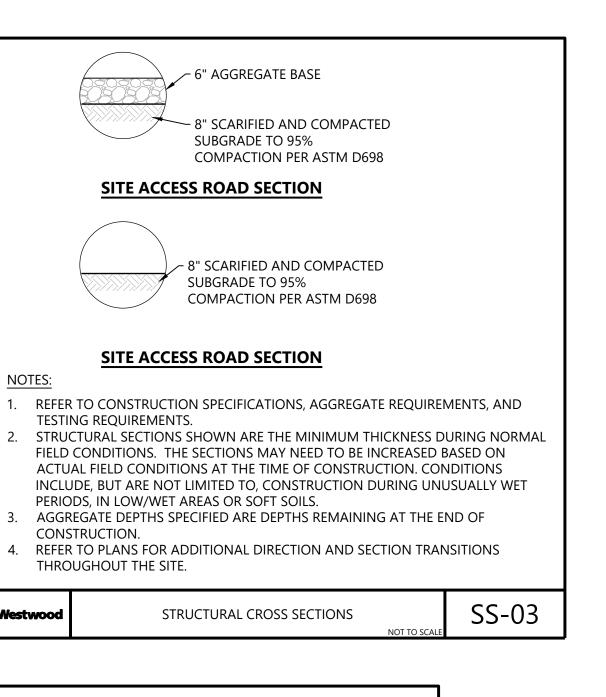
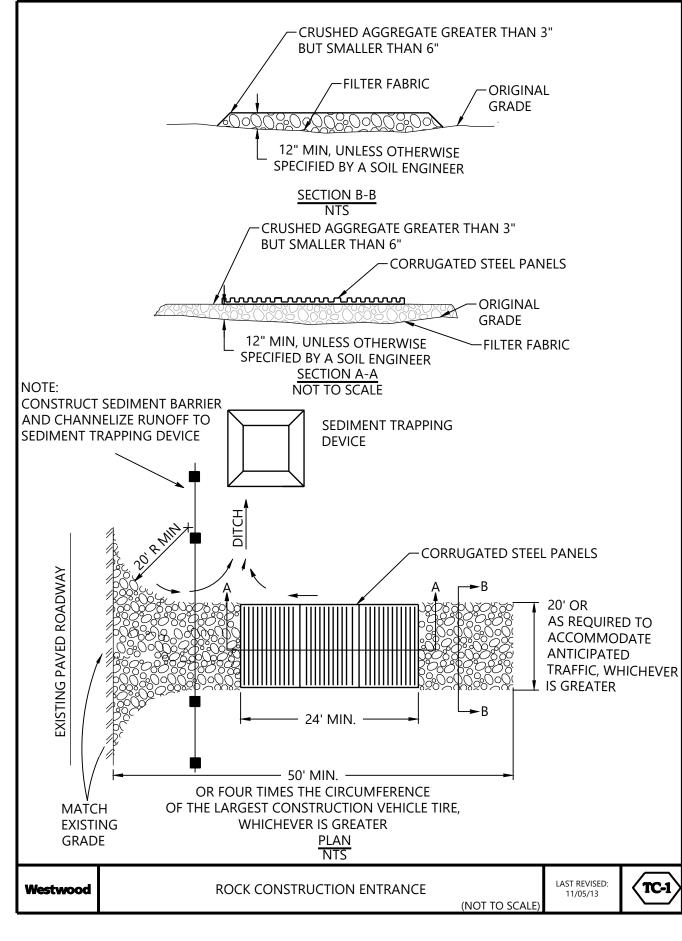
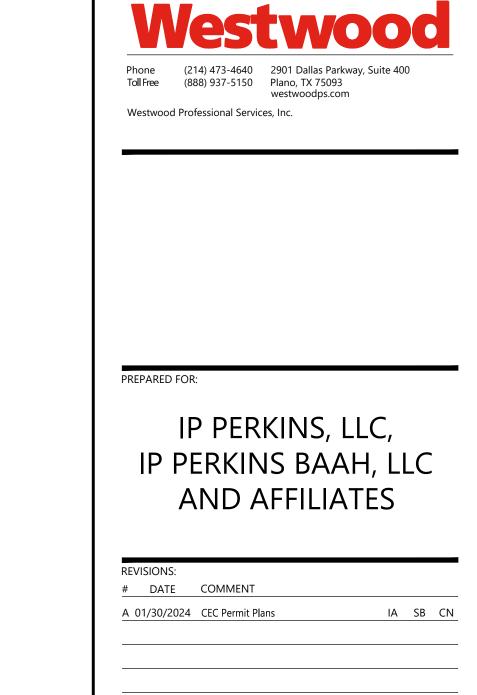
DOCKETED					
Docket Number:	24-OPT-01				
Project Title:	Perkins Renewable Energy Project				
TN #:	254402				
Document Title: Appendix F Site Plan Part 2					
Description: Includes Project design, layout, site plans, elevations, and notes.					
Filer:	Emily Capello				
Organization:	Panorama Environmental, Inc.				
Submitter Role: Applicant Consultant					
Submission Date:	2/11/2024 8:25:54 PM				
Docketed Date:	2/12/2024				

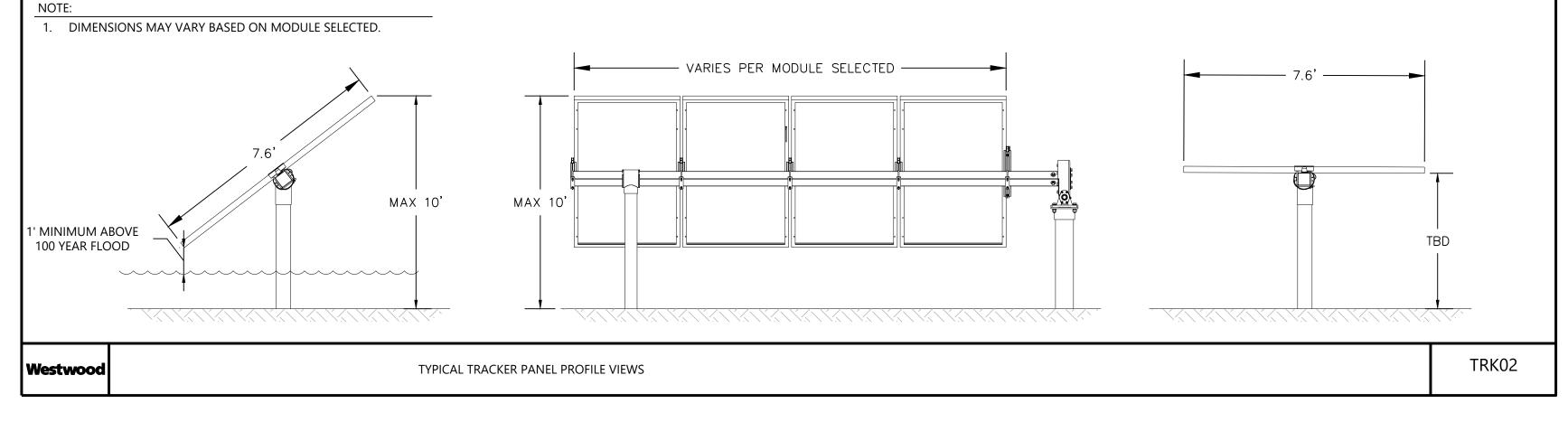
Appendix F Site Plan Part 2











UPSLOPE DISTURBED

WRAP ENDS UPSLOPE TO

CONTAIN RUNOFF FROM

CONSTRUCTION AREA

AREA/PROJECT SITE -

FLOW

UNDISTURBED AREA

SLOPE

(H:V)

< 4:1

4:1 - 2:1

> 2:1

EFFECTIVE

- DRIVEN WOODEN STAKES TO BE

OVERLAP

ROLLS A

SW-13

MAX SPACING

(FT.)

20

15

10

* A CLOSER SPACING IS MORE

MINIMUM 6'

PERPENDICULAR TO SURFACE

IP Perkins

Imperial County, CA

Construction Details

NOT FOR CONSTRUCTION

DATE: 01/30/2024

SHEET: **C** 400

C.400



FIBER ROLLS SHALL BE INSTALLED PRIOR TO UPSLOPE DISTURBANCE ACTIVITIES COMMENCE.

TO PROVIDE AREA TO BACKFILL THE TRENCH.

AFTER THE CONCLUSION OF RAIN EVENTS.

MINIMUM LENGTH OF 24 IN.

6 INCHES, NOT ABUTTED.

CONTOUR.

. 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

. 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

TURN THE ENDS OF THE FIBER ROLLS UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL.

. 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

0. FIBER ROLLS MUST BE INSPECTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS FOR THE

13. RILLS OR GULLIES MAY BEGIN TO FORM FOLLOWING MAJOR STORM EVENTS WHERE RUNOFF HAS OVERTOPPED THE FIBER ROLLS. THESE RILLS OR GULLIES SHOULD BE PROMPTLY REPAIRED.

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

2. SEDIMENT THAT ACCUMULATES UPSLOPE OF THE BMP SHOULD BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION

FIBER ROLLS FOR PERIMETER CONTROL OF CONSTRUCTION AREA LIMIT

. If more than one fiber roll is placed in a row, the rolls should be overlapped a minimum of $^{\prime}$

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

. ROLLS SHALL BE INSTALLED PERPENDICULAR TO WATER MOVEMENT, AND PARALLEL TO THE SLOPE

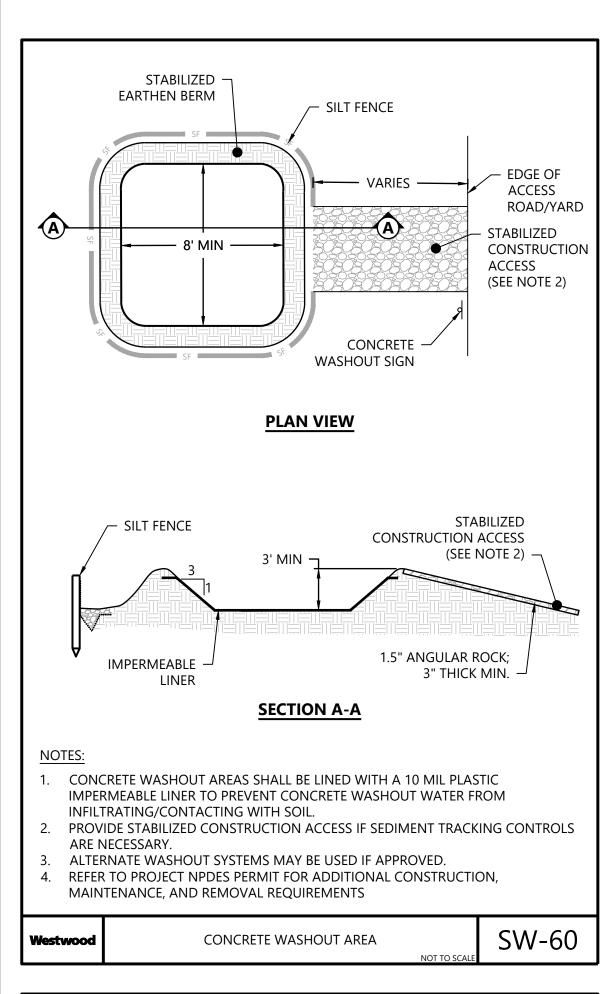
THE UPSLOPE POINT SHOULD BE A MINIMUM 6" HIGHER IN ELEVATION THAN THE LOW POINT.

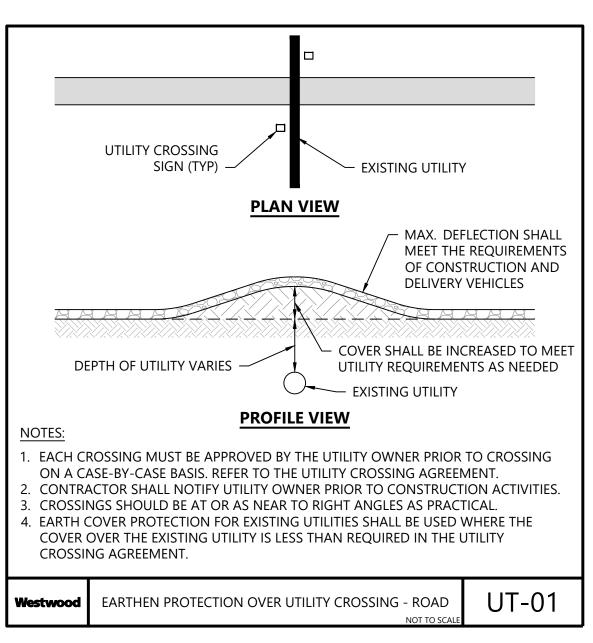
SHALL BE ENCASED WITH A BIODEGRADABLE MATERIAL AND MAY BE LEFT IN.

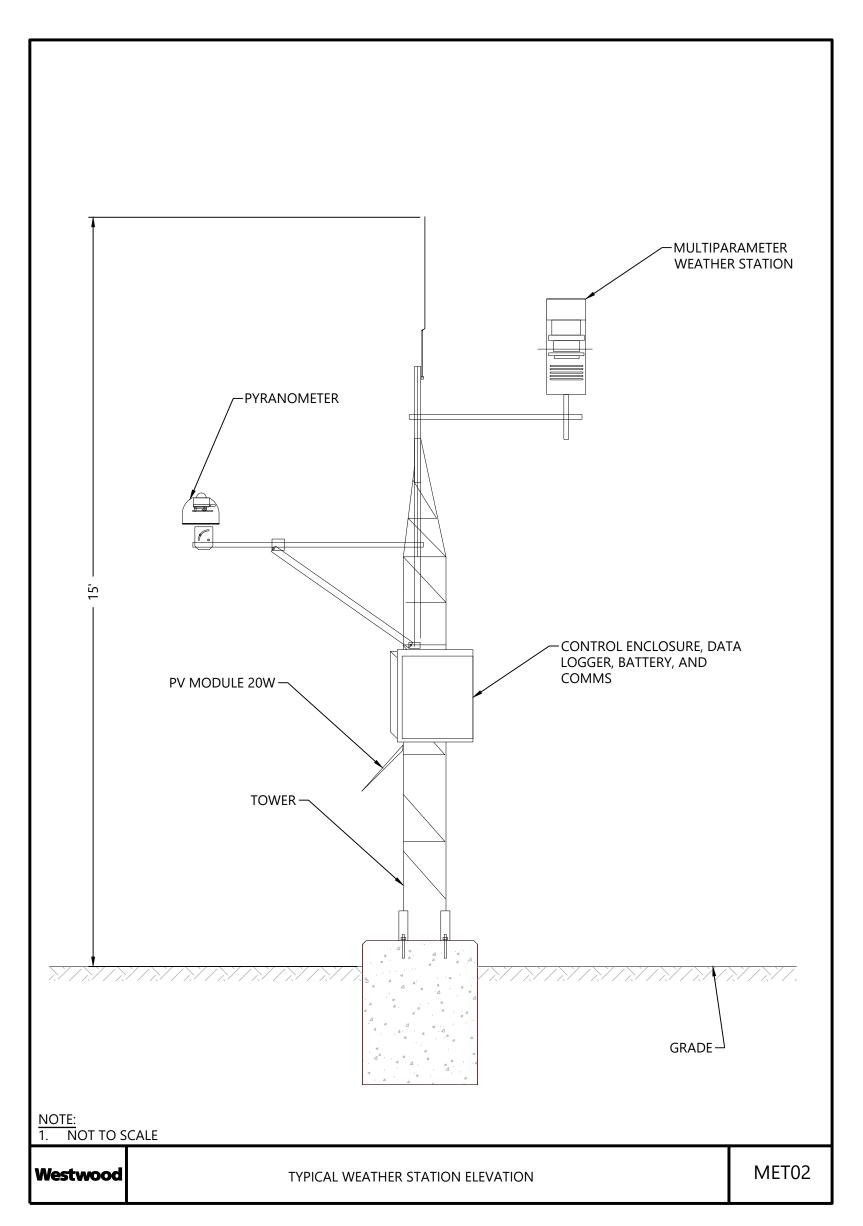
PROCESS DOES NOT DISTURB MORE SOIL AND VEGETATION THAN IS NECESSARY

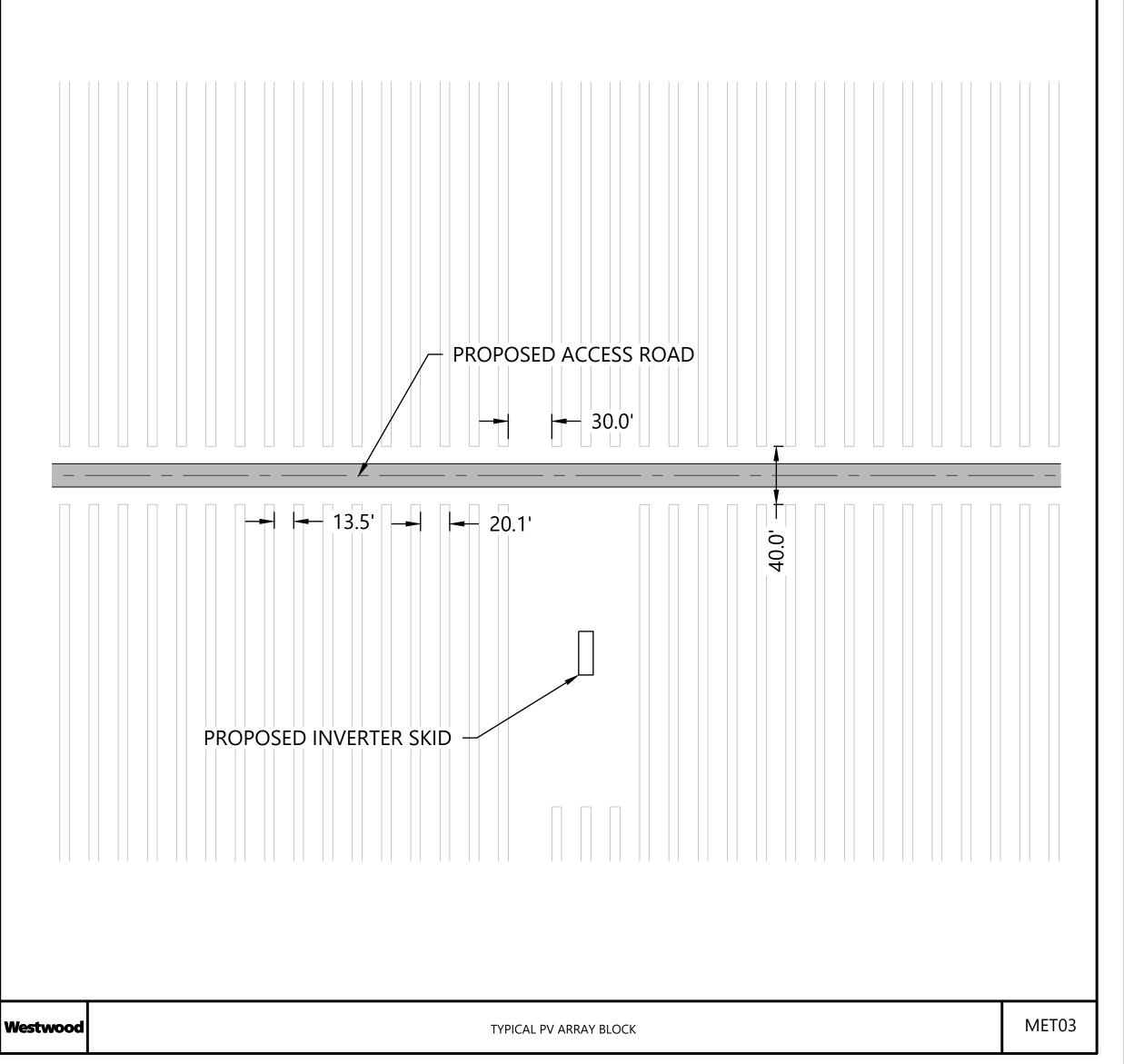
1. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING, OR SLUMPING FIBER ROLLS.

REACHES ONE-THIRD THE DESIGNATED SEDIMENT STORAGE DEPTH.



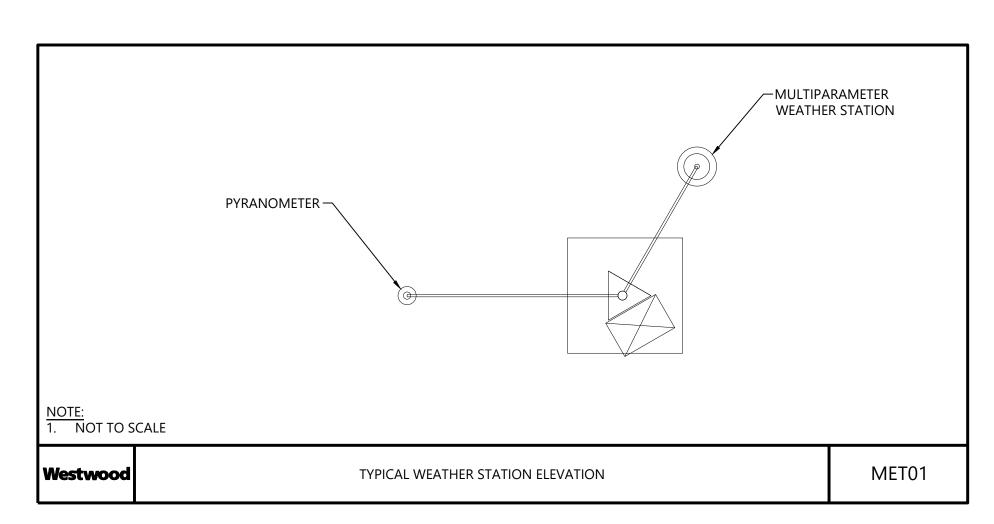


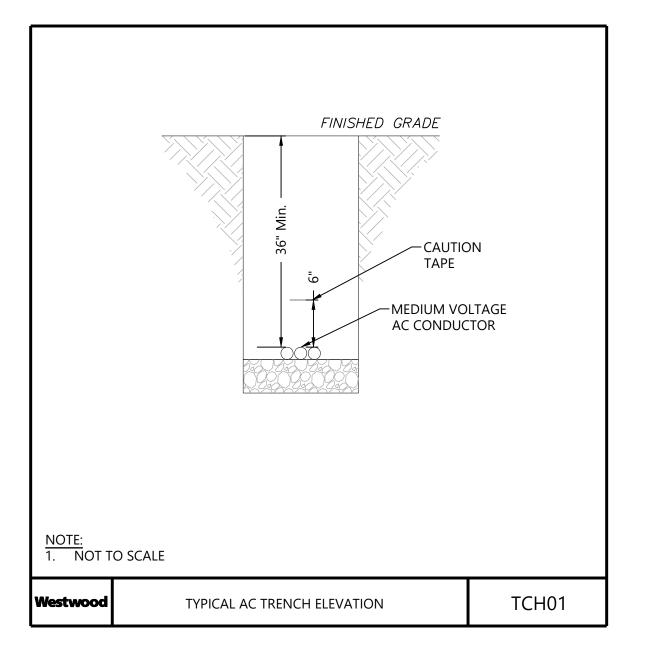






IP PERKINS, LLC, IP PERKINS BAAH, LLC AND AFFILIATES





IP Perkins

Imperial County, CA

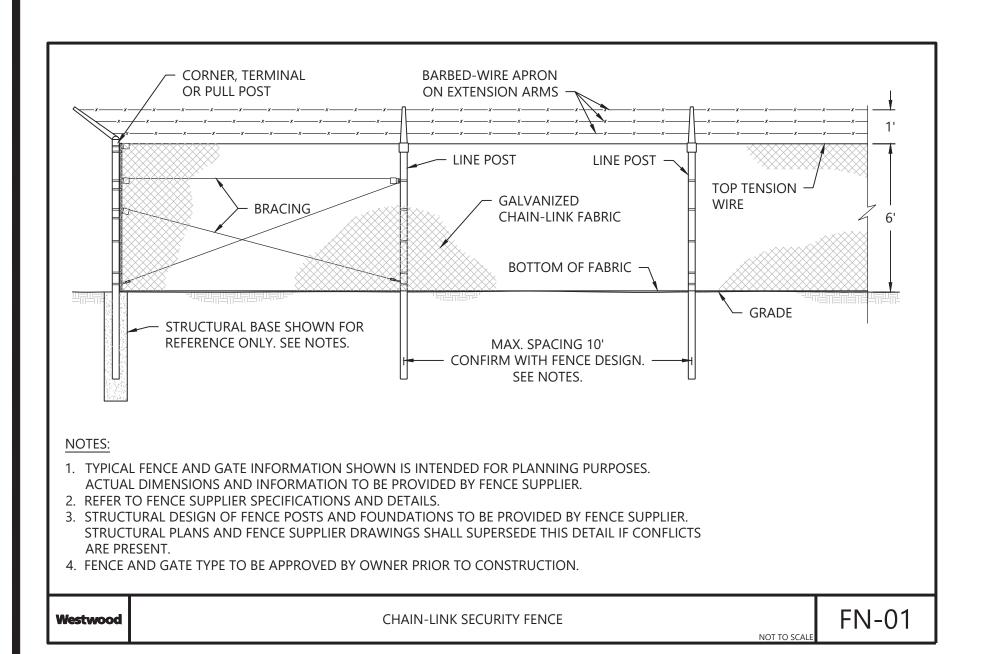
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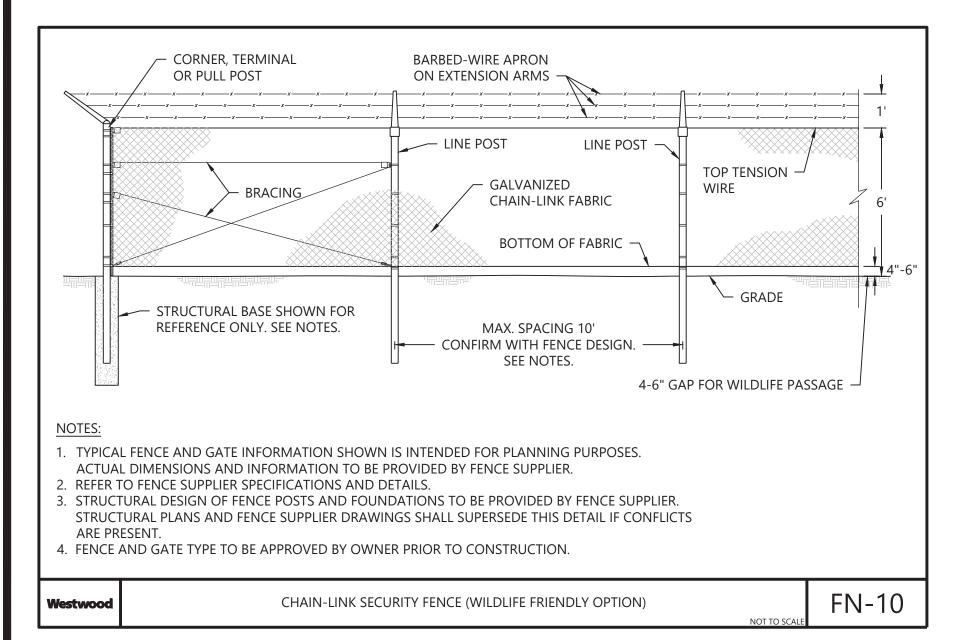
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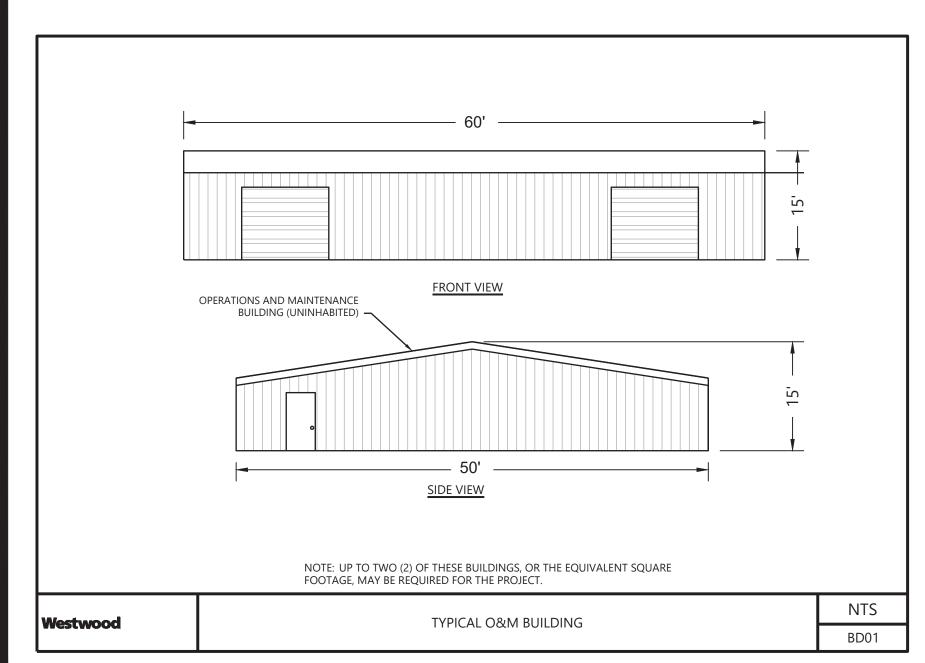
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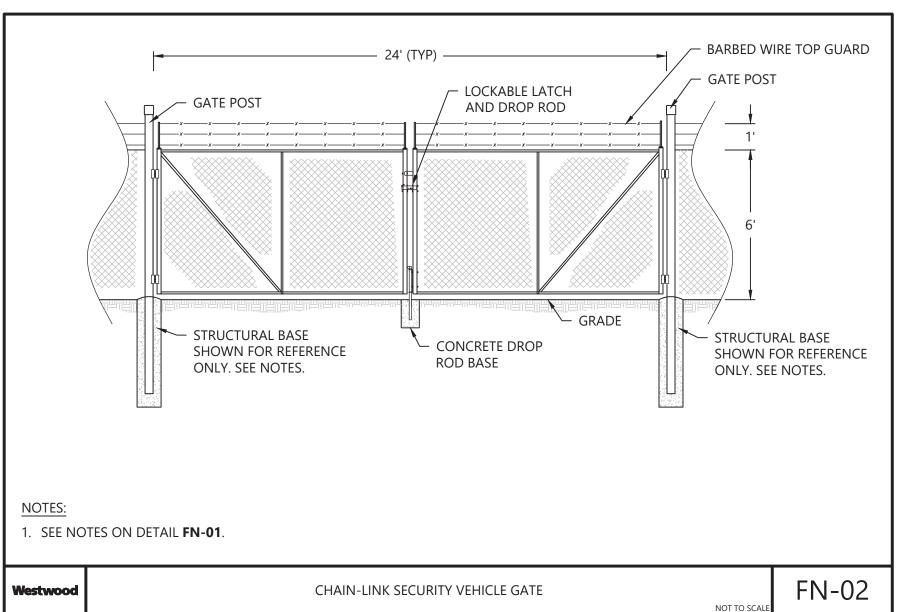
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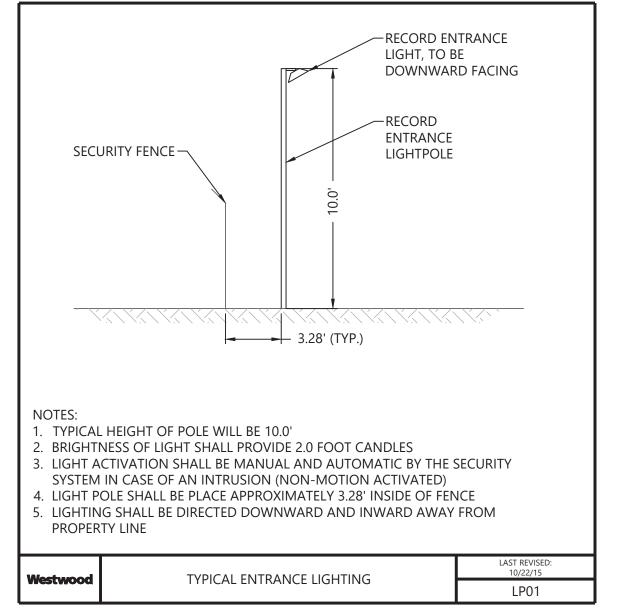
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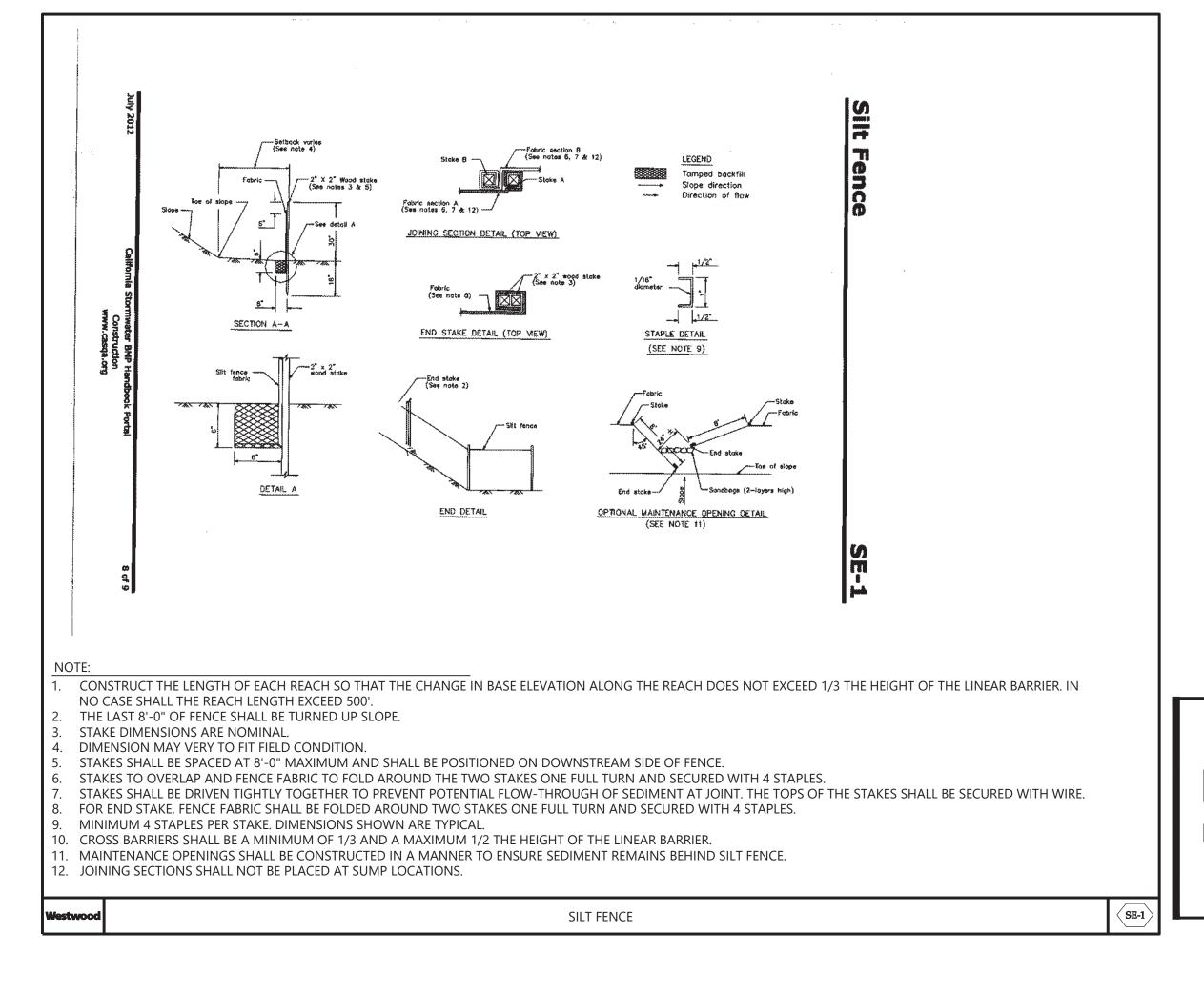














Westwood Professional Services, Inc.

IP PERKINS, LLC, IP PERKINS BAAH, LLC **AND AFFILIATES**

RE	REVISIONS:								
#	DATE	COMMENT							
Α	01/30/2024	CEC Permit Plans	IA	SB	CN				

IP Perkins

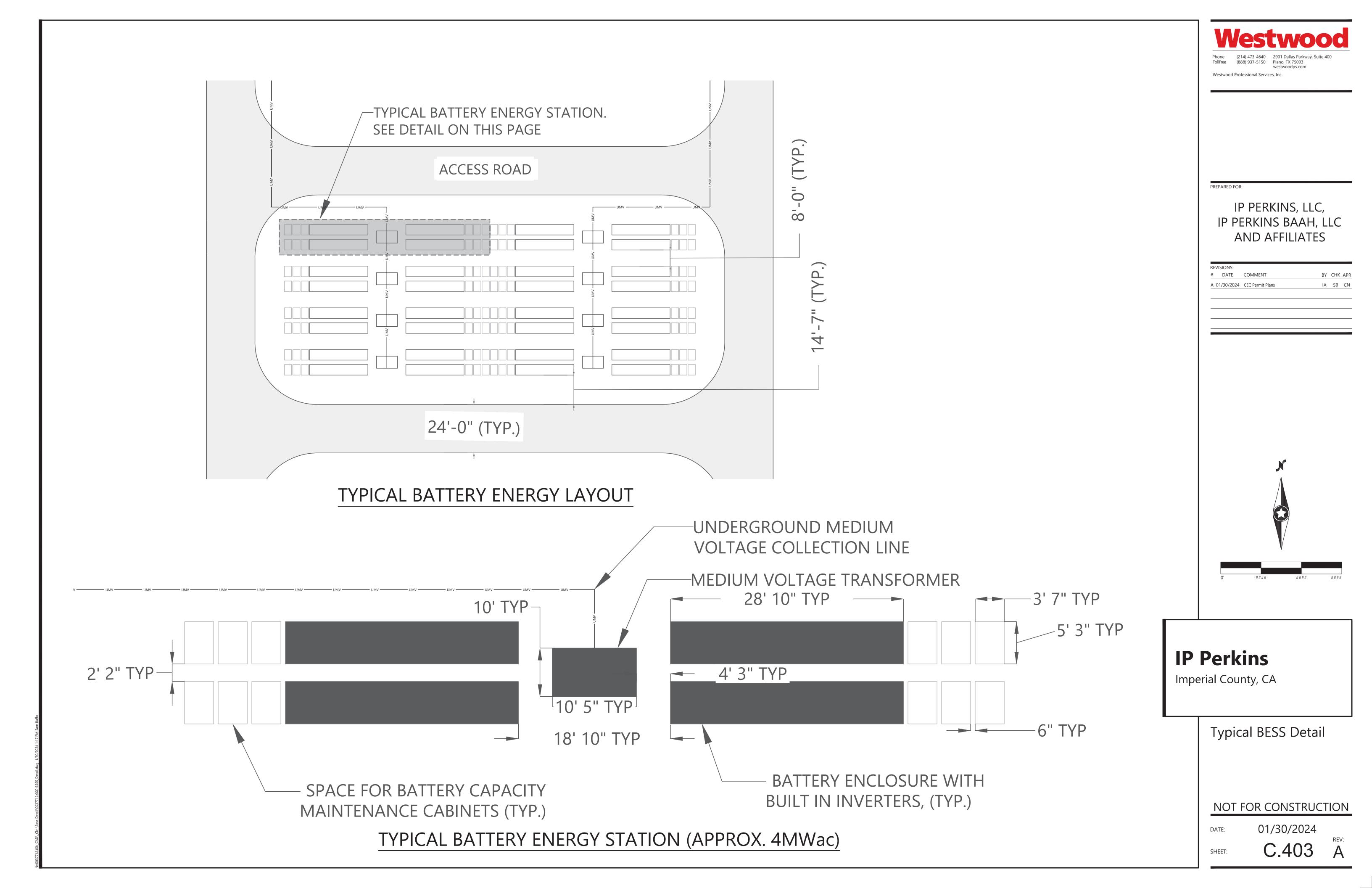
Imperial County, CA

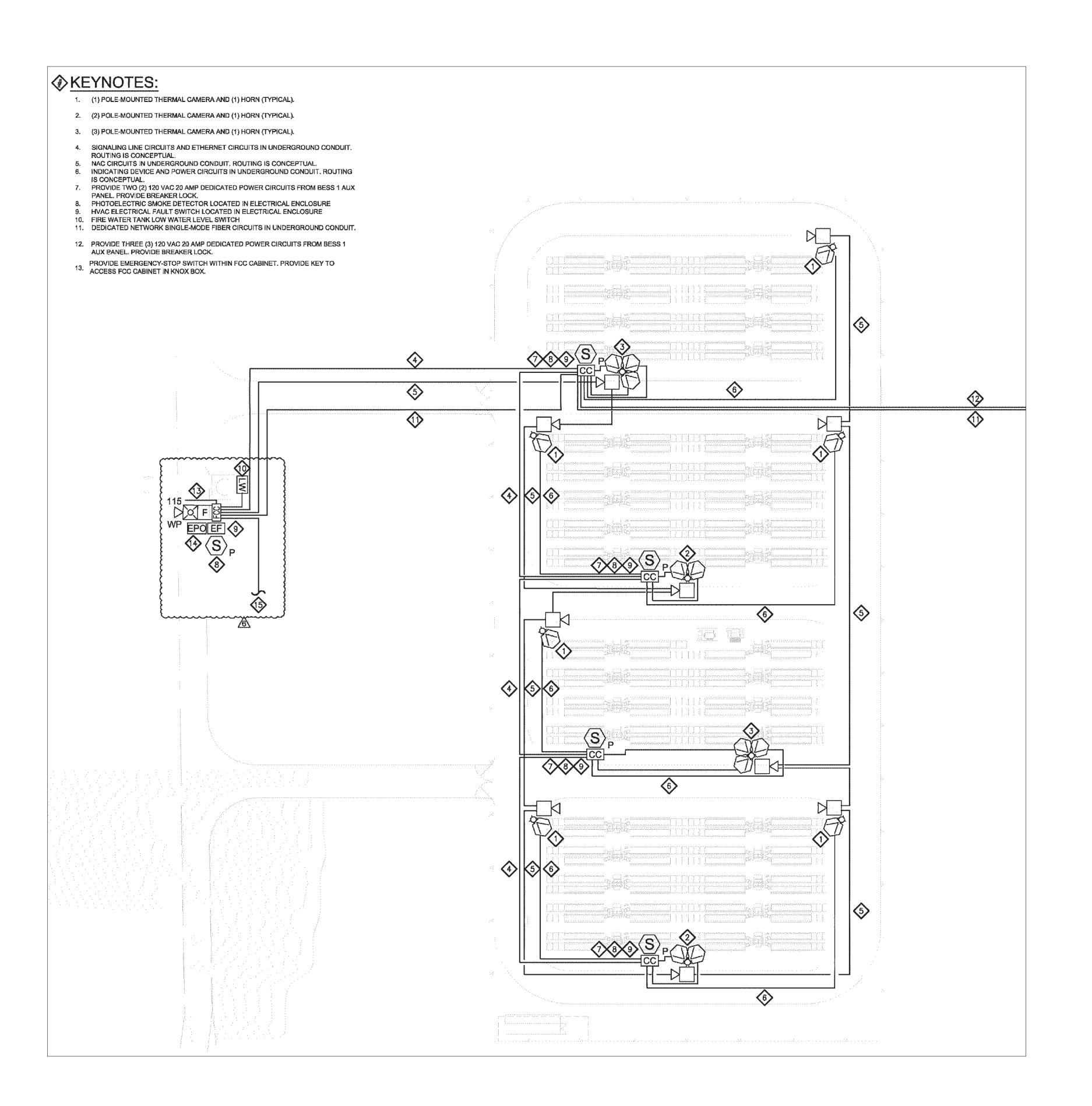
Construction Details

NOT FOR CONSTRUCTION

01/30/2024

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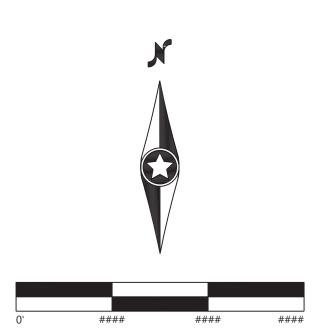


Westwood Professional Services, Inc.

PREPARED EC

IP PERKINS, LLC, IP PERKINS BAAH, LLC AND AFFILIATES

#	DATE	COMMENT	ВУ	СНК	APR
Α	01/30/2024	CEC Permit Plans	IA	SB	CN



IP Perkins

Imperial County, CA

Sample BESS Fire Protection Plan

NOT FOR CONSTRUCTION

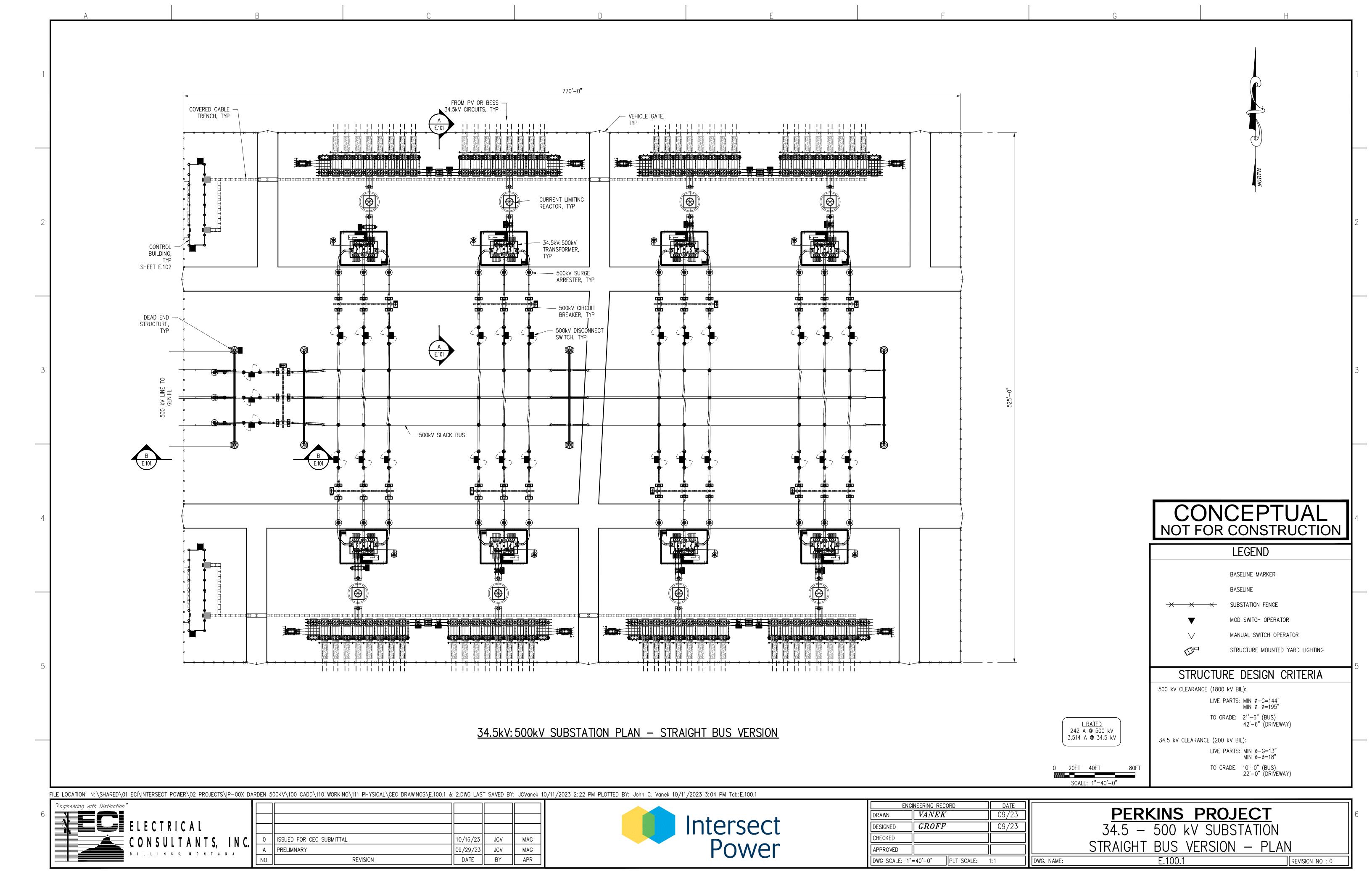
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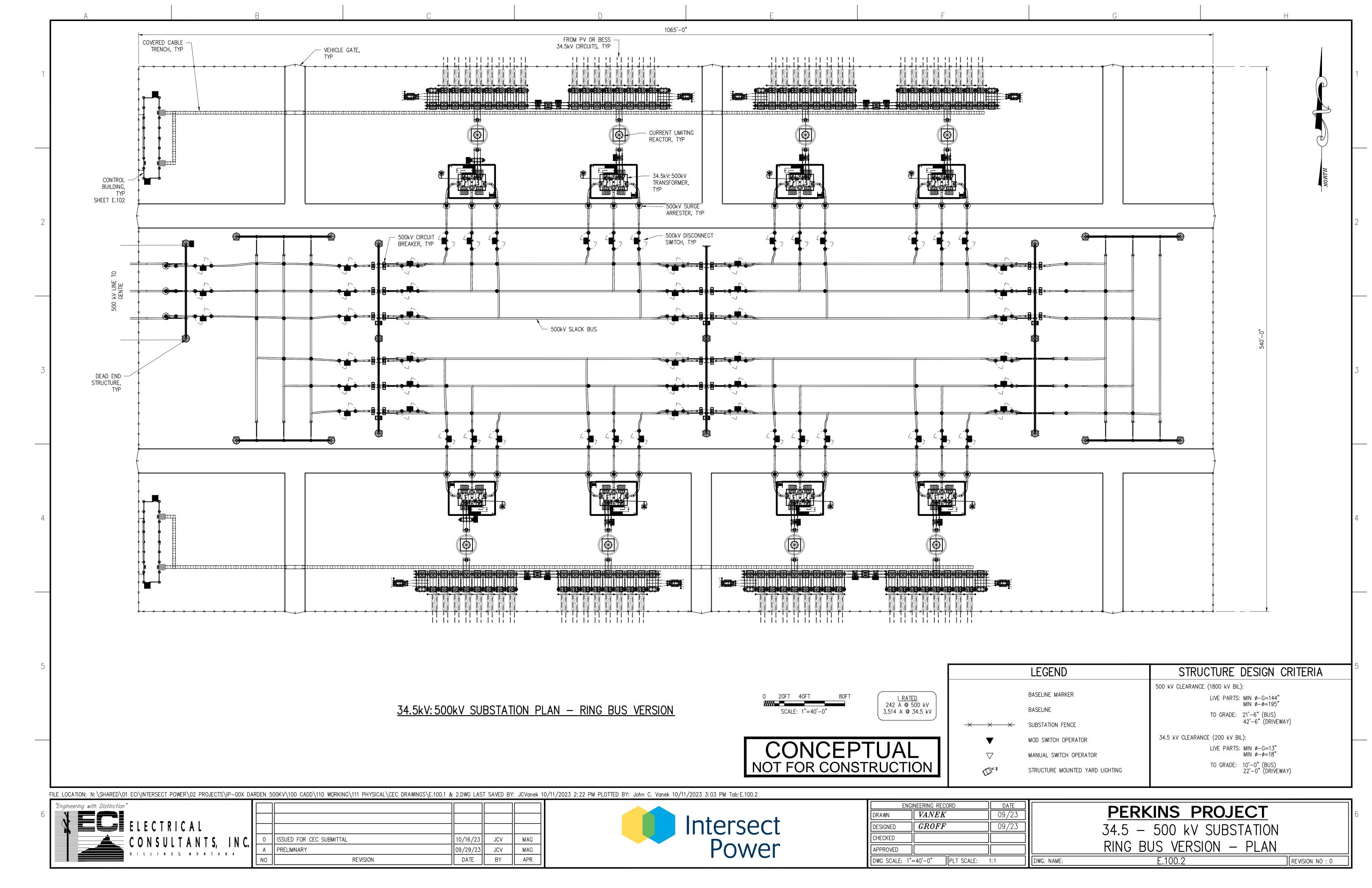
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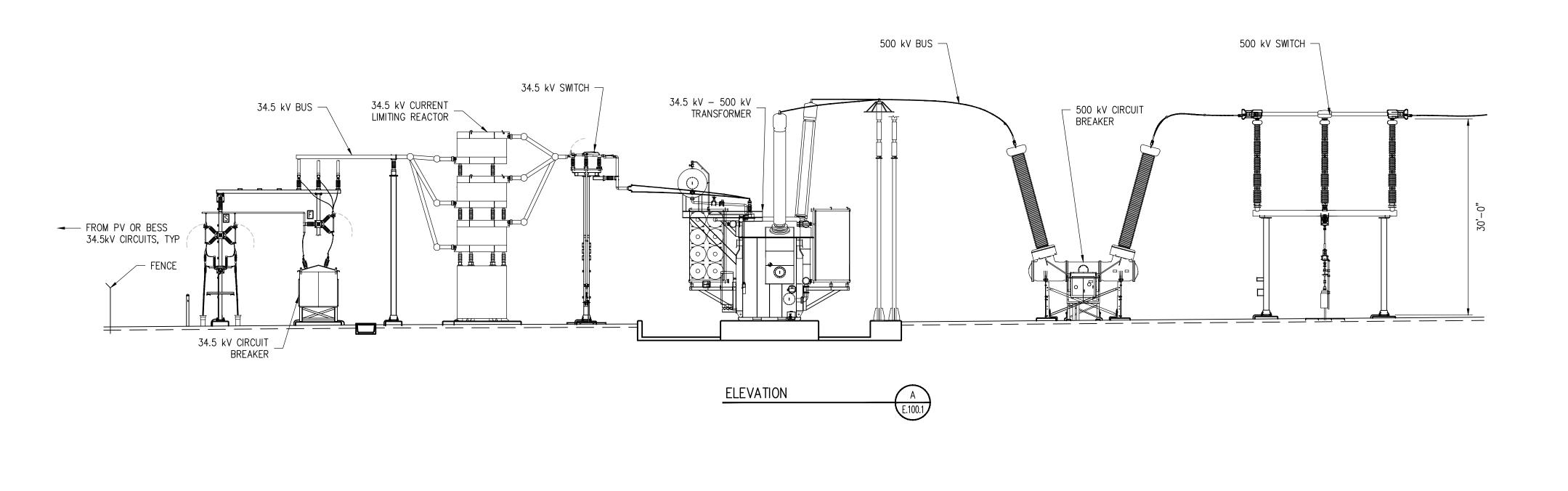
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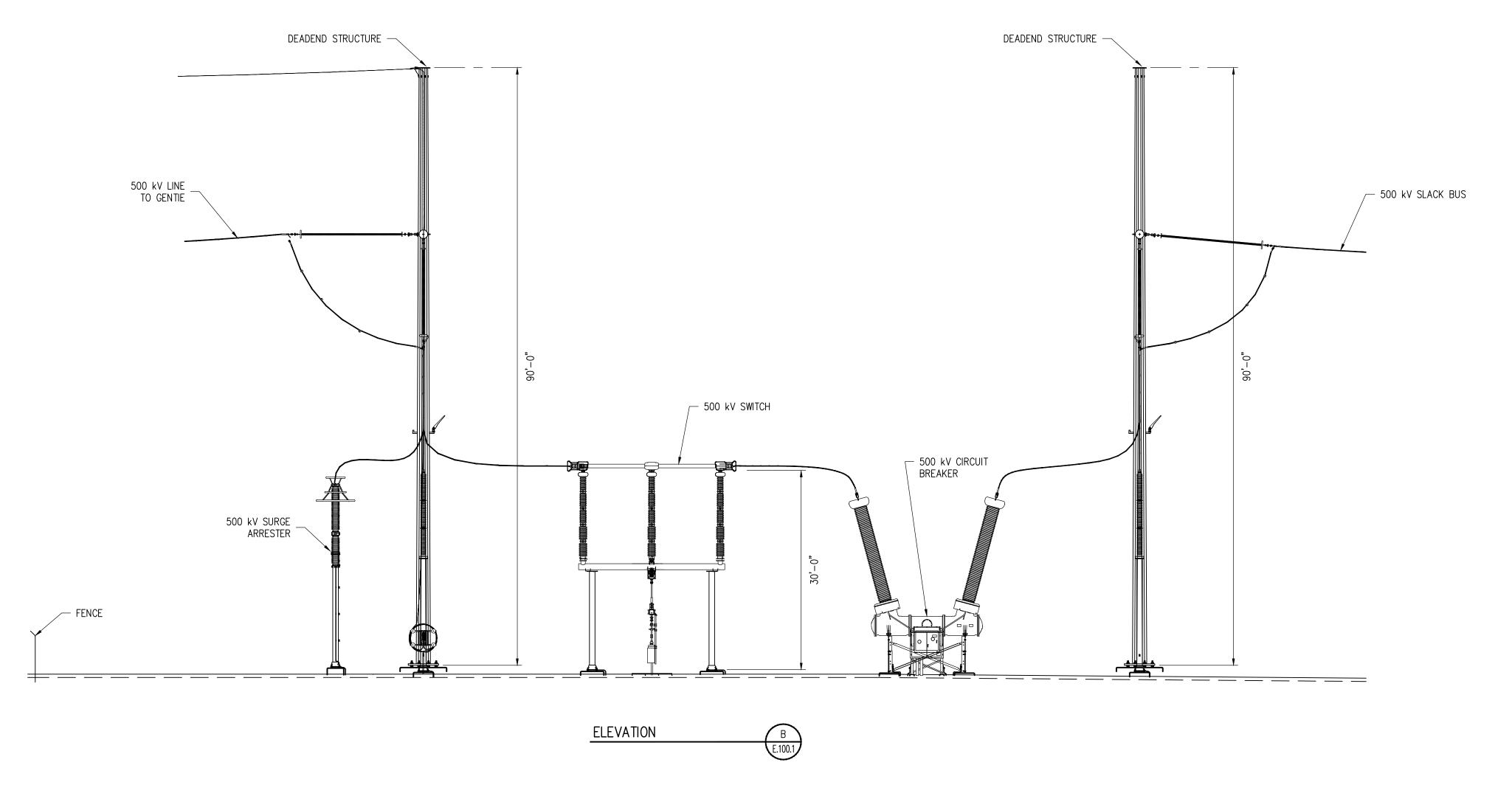
C.404 A

SAMPLE BESS FIRE PROTECTION PLAN









STRUCTURE DESIGN CRITERIA

500 kV CLEARANCE (1800 kV BIL):

LIVE PARTS: MIN Ø-G=144" MIN Ø-Ø=195"

TO GRADE: 21'-6" (BUS) 42'-6" (DRIVEWAY)

34.5 kV CLEARANCE (200 kV BIL):

LIVE PARTS: MIN Ø-G=13" MIN Ø-Ø=18"

TO GRADE: 10'-0" (BUS)
22'-0" (DRIVEWAY)

- . REFER TO DRAWING OSS-B-Z001 FOR BILL OF MATERIALS.
- . SUBSTATION CONTRACTOR TO PROVIDE BOLTS, NUTS AND WASHERS AS REQUIRED FOR BUS FITTINGS AND TO MOUNT EQUIPMENT TO
- 3. PLACE ALL BUS SUPPORT STANDS, SWITCH STANDS, DEAD ENDS AND STATIC MASTS ON LEVELING NUTS. BUS HEIGHTS ARE FROM BOTTOM
- 4. REFER TO DRAWING OBS-D-P012-1 FOR SURFACE ROCK INSTALLATION

LEGEND

✓── INDICATES DETAIL NUMBER ■ INDICATES DRAWING ON WHICH DETAIL APPEARS

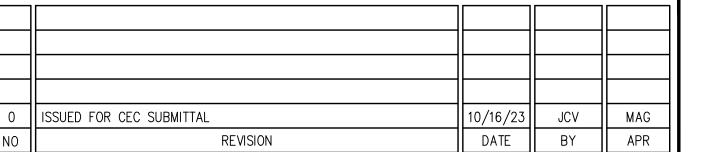
MATERIAL ITEM NUMBER ON BILL OF MATERIALS (NOTE 1) BUS SUPPORT FITTINGS: FIXED, SLIP, EXPANSION

NEAR SIDE OF STRUCTURE FAR SIDE OF STRUCTURE

CONCEPTUAL NOT FOR CONSTRUCTION

FILE LOCATION: N:\SHARED\01 ECI\INTERSECT POWER\02 PROJECTS\IP-00X DARDEN 500KV\100 CADD\110 WORKING\111 PHYSICAL\CEC DRAWINGS\E.101 & 2.DWG LAST SAVED BY: JCVanek 10/11/2023 2:52 PM PLOTTED BY: John C. Vanek 10/11/2023 2:52 PM Tab:E.101





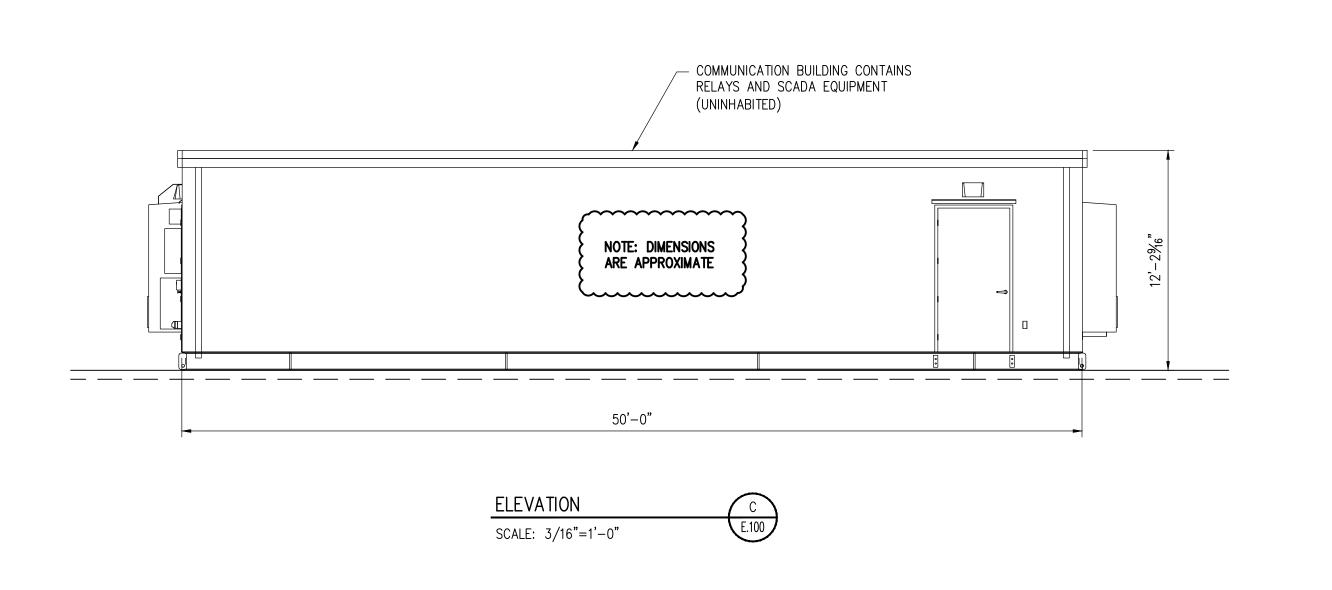


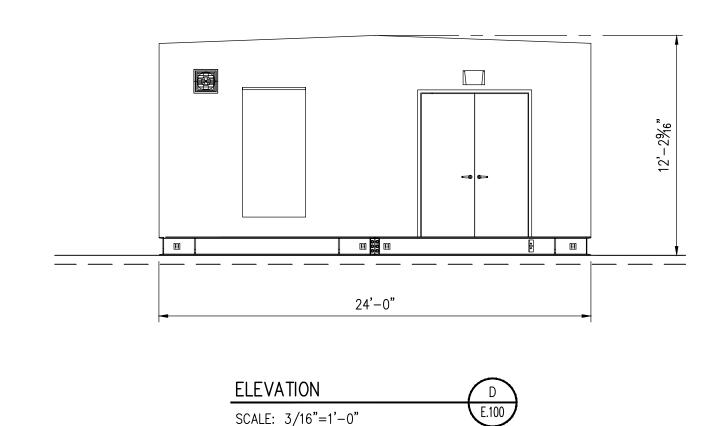
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DRAWN	VANEK	•	10/23	
DESIGNED	GROFF		10/23	
CHECKED				
APPROVED				
DWG SCALE: NT	S	PLT SCALE:	1:1	D۷

PERKINS PROJECT 34.5 - 500 kV SUBSTATION

ELEVATIONS

REVISION NO : 0





STRUCTURE DESIGN CRITERIA

500 kV CLEARANCE (1800 kV BIL):

LIVE PARTS: MIN Ø-G=144" MIN Ø-Ø=195"

TO GRADE: 21'-6" (BUS) 42'-6" (DRIVEWAY)

34.5 kV CLEARANCE (200 kV BIL):

LIVE PARTS: MIN Ø-G=13" MIN Ø-Ø=18"

TO GRADE: 10'-0" (BUS)
22'-0" (DRIVEWAY)

- 1. REFER TO DRAWING OSS-B-Z001 FOR BILL OF MATERIALS.
- 2. SUBSTATION CONTRACTOR TO PROVIDE BOLTS, NUTS AND WASHERS AS REQUIRED FOR BUS FITTINGS AND TO MOUNT EQUIPMENT TO
- 3. PLACE ALL BUS SUPPORT STANDS, SWITCH STANDS, DEAD ENDS AND STATIC MASTS ON LEVELING NUTS. BUS HEIGHTS ARE FROM BOTTOM OF BASE PLATE.
- 4. REFER TO DRAWING OBS-D-P012-1 FOR SURFACE ROCK INSTALLATION NOTES.

LEGEND

→ INDICATES DETAIL NUMBER ■ INDICATES DRAWING ON WHICH DETAIL APPEARS

MATERIAL ITEM NUMBER ON BILL OF MATERIALS (NOTE 1)

BUS SUPPORT FITTINGS: FIXED, SLIP, EXPANSION

NEAR SIDE OF STRUCTURE FAR SIDE OF STRUCTURE

CONCEPTUAL NOT FOR CONSTRUCTION

FILE LOCATION: N:\SHARED\01 ECI\INTERSECT POWER\02 PROJECTS\IP-00X DARDEN 500KV\100 CADD\110 WORKING\111 PHYSICAL\CEC DRAWINGS\E.101 & 2.DWG LAST SAVED BY: JCVanek 10/11/2023 2:52 PM PLOTTED BY: John C. Vanek 10/11/2023 3:02 PM Tab:E.102

10/16/23

DATE

JCV | MAG

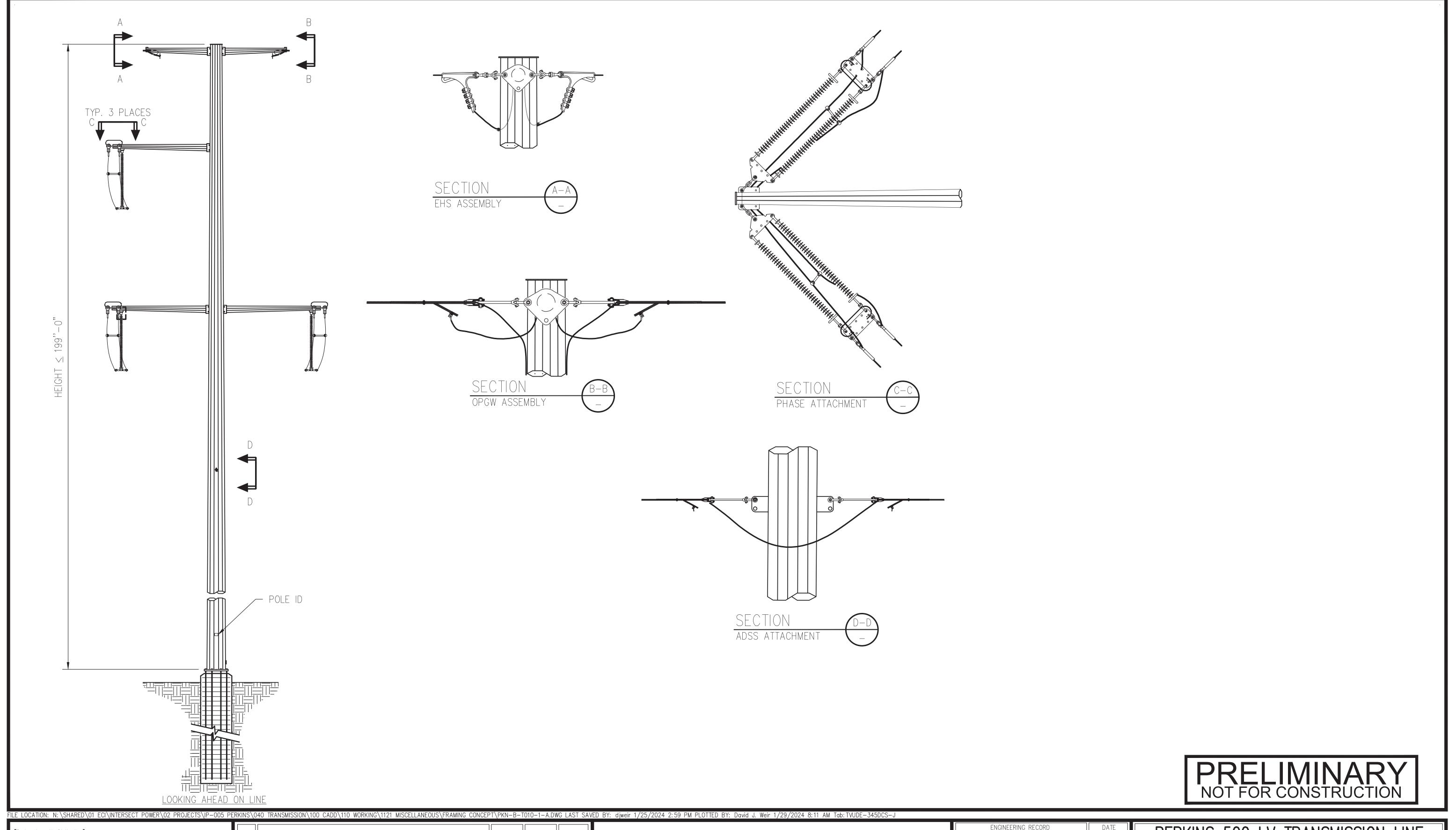
BY APR





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DESIGNED	GROFF		10/23	
CHECKED				
APPROVED				
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PERKINS PROJECT 34.5 - 500 kV SUBSTATION ELEVATIONS - CONTROL BUILDING

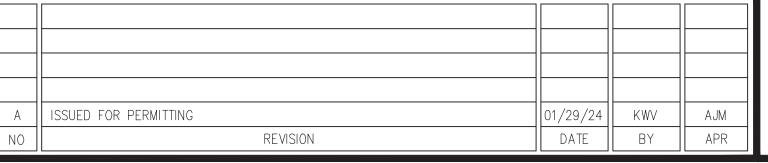


"Engineering with Distinction"

ELECTRICAL

CONSULTANTS, INC.

BILLINGS, NONTANA





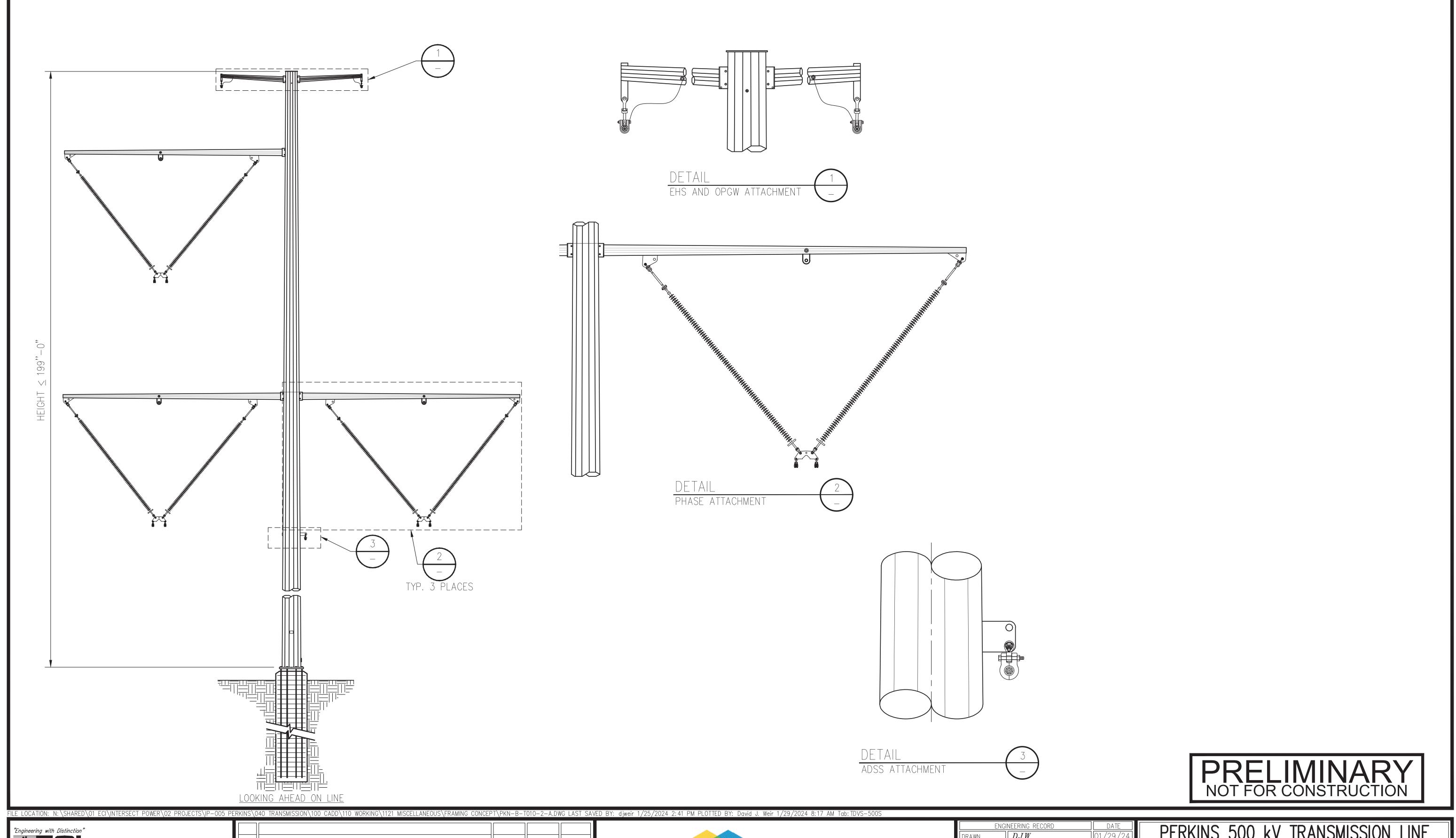
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DESIGNED	KWV		01/29,	/24	STFFI
CHECKED	KWV		01/29,	/24	
APPROVED	AJM		01/29,	/24	
DWG SCALE: NO	NE	PLT SCALE:	1:1		DWG. NAME:

PERKINS 500 kV TRANSMISSION L	INE
STEEL MONOPOLE DEADEND/STRAIN STRU	CTURE

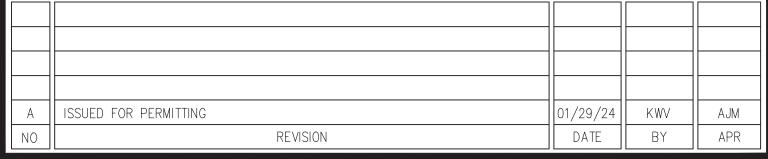
PKN-B-T010-1

REVISION NO : A

E.200





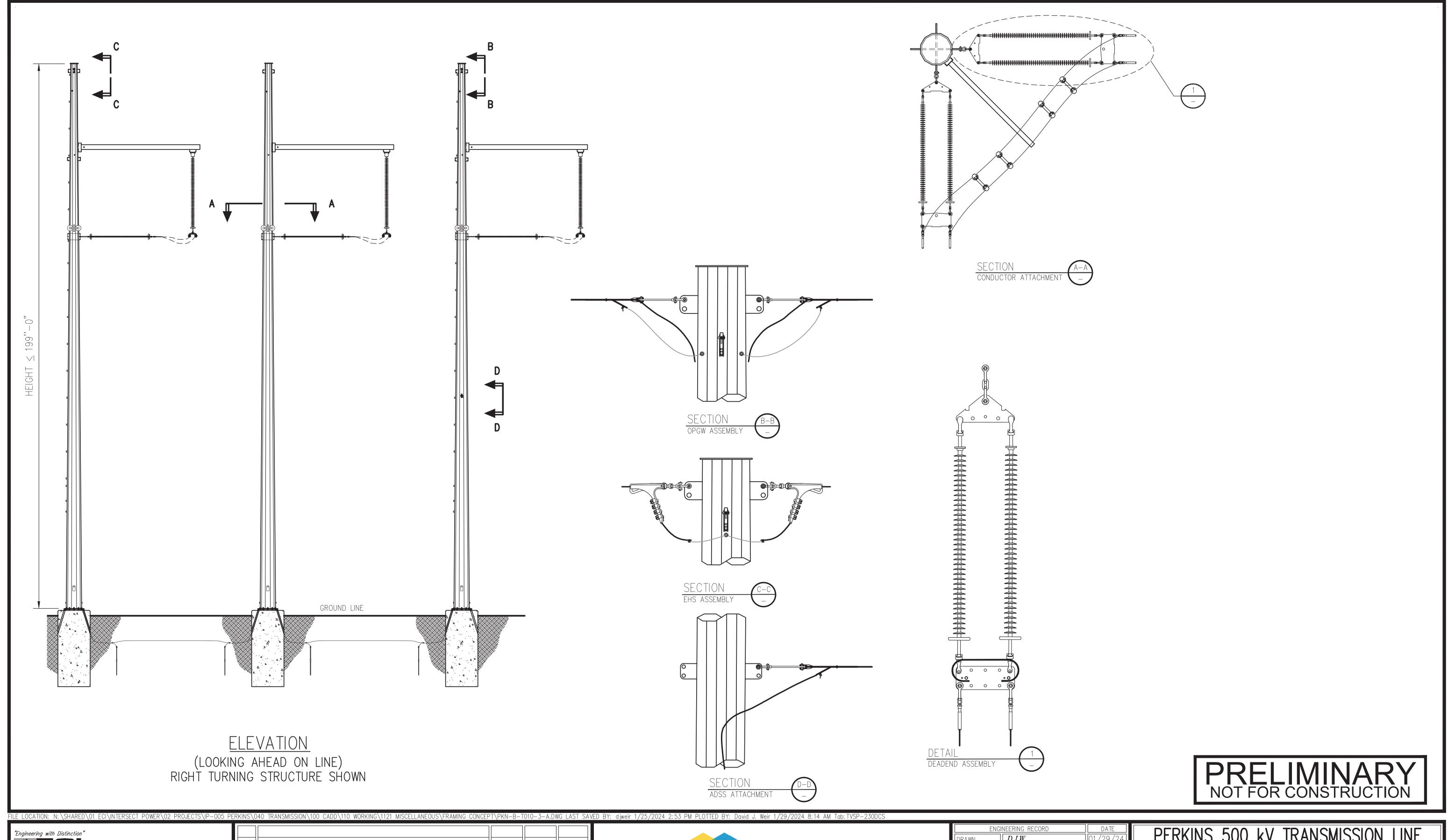




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	DESIGNED	KWV		01/29/24		
	CHECKED	KWV		01/29/24		
١	APPROVED	AJM		01/29/24		
	DWG SCALE: NC	NE	PLT SCALE:	1:1	DWG	

PERKINS 500 kV TRANSMISSION LINE STEEL MONOPOLE TANGENT

DWG. NAME: E.201 PKN-B-T010-2 REVISION NO : A



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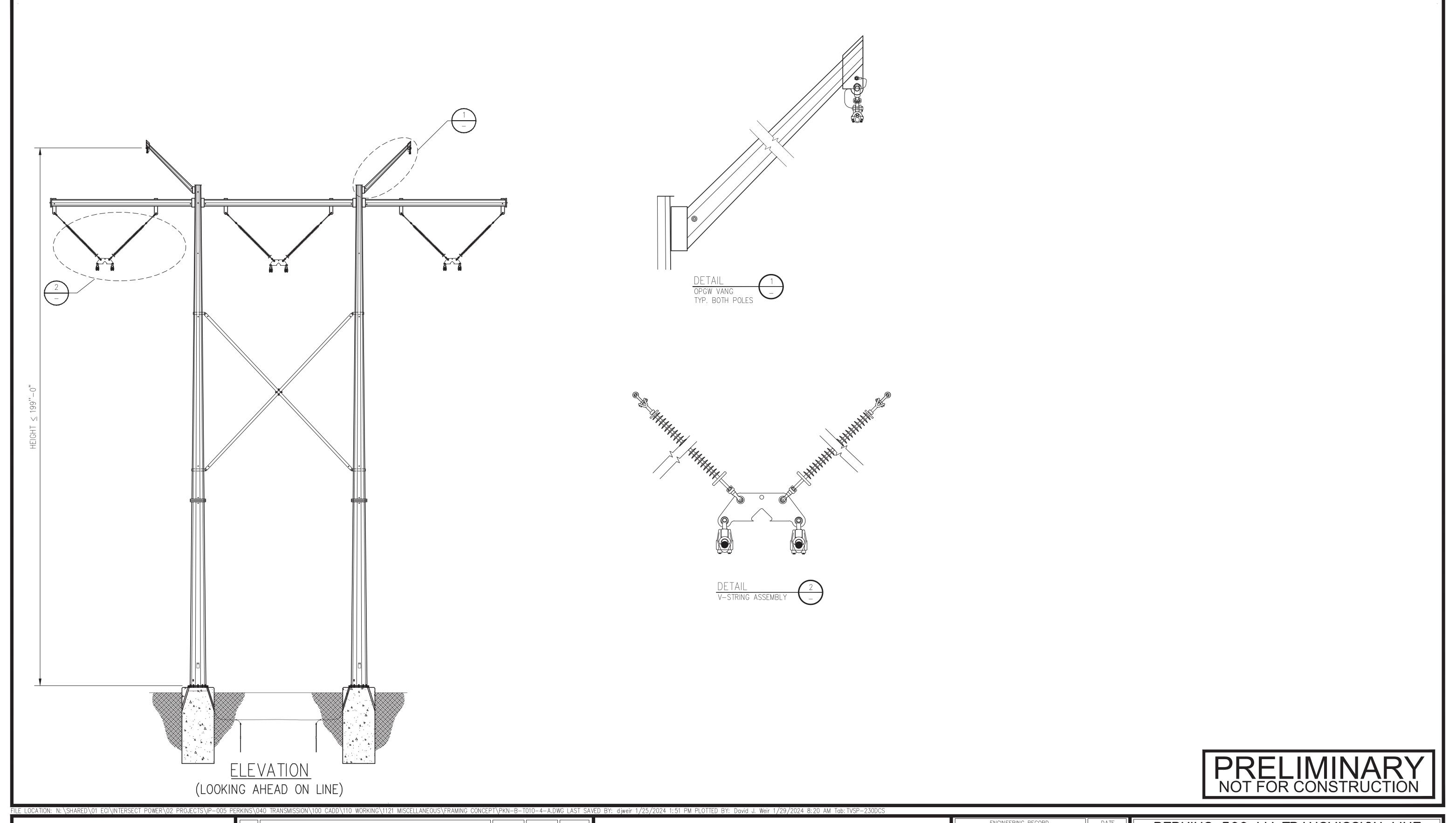
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Ì	DESIGNED	KWV		01/29/24	
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	APPROVED	AJM		01/29/24	
	DWG SCALE: NO	NE	PLT SCALE:	1:1	DWG. NAME:

PERKINS 500 kV TRANSMISSION LINE 3-POLE DEADEND STRUCTURES

PKN-B-T010-3

REVISION NO : A

E.202



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L ENG	NEERING RECORD	<u>DATE</u>	PFRKINS 5
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DESIGNED	KWV	01/29/24	STFFL H-
CHECKED	KWV	01/29/24	JILLE II
APPROVED	AJM	01/29/24	
DWG SCALE: NC	NE PLT SCALE:	1:1	DWG. NAME: E.203

PERKINS 500 kV TRANSMISSION LINE
STEEL H-FRAME TANGENT STRUCTURE

PKN-B-T010-4

REVISION NO : A

