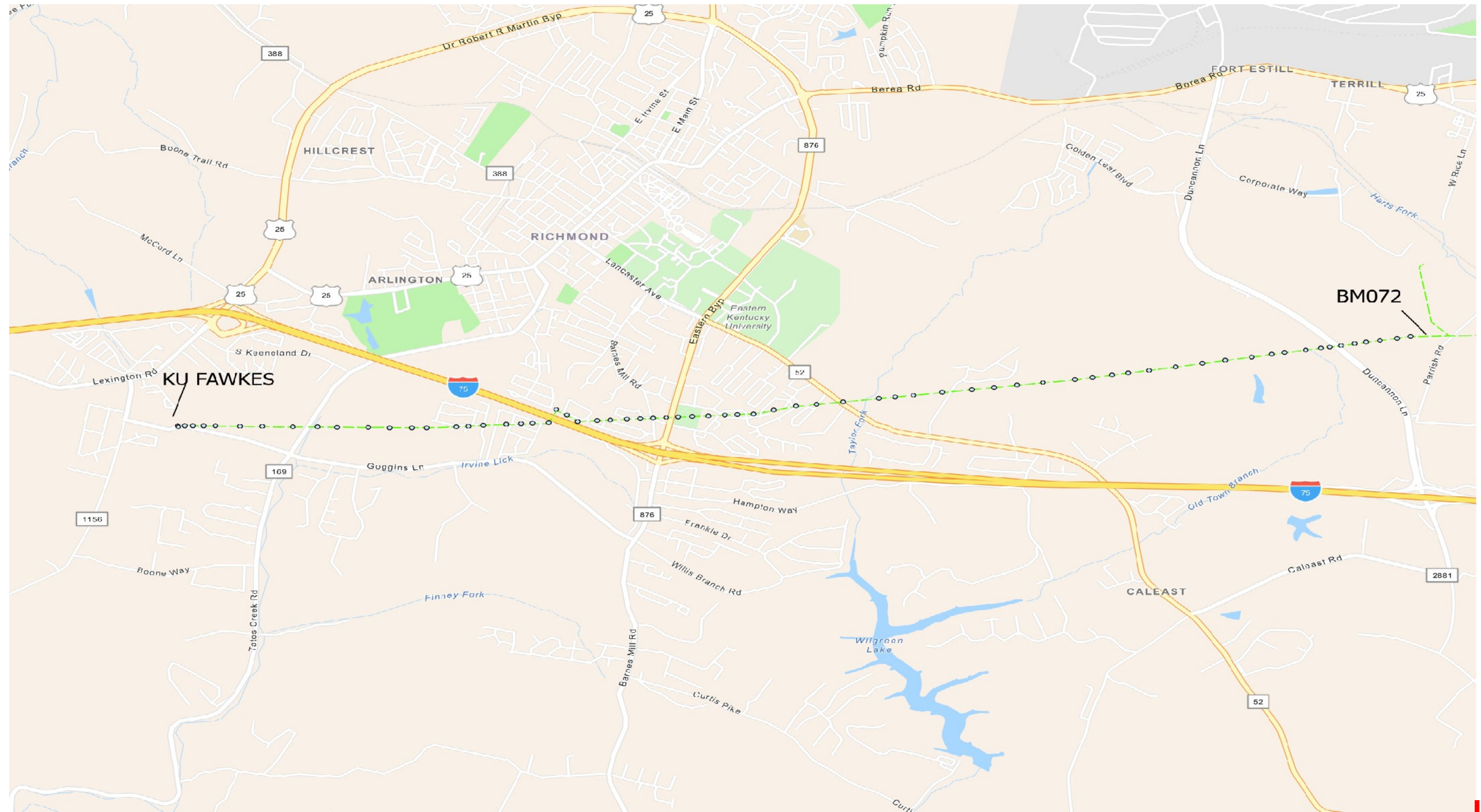


FAWKES-DUNCANNON 69/138KV (BM/ZL) DBL CKT VICINITY MAP - 7.4 MILES



IFC

REVISIONS	DATE	DWN	APP	REVISIONS	DATE	DWN	APP
1. AS BUILT	01/12/25	LDS	LDS				

DESIGNED	APPROVALS	DATE
LUCAS SPENCER		07/07/23
REVIEWED		
APPROVED	LUCAS SPENCER	



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PHONE: (859) 744-4812

FAWKES-DUNCANNON DBL CKT 69/138KV
"BM"/"ZL"~7.4 MILES

DWG. NO.	REV.
BM-VI	1
SHEET	OF
1	18

DESIGN NOTES

CONDUCTOR: 795 DRAKE ACSR 26/7 – NESC 250B HEAVY LOADING D.T. 9000# INITIAL RS, 6000# NESC MED CREEP RS FROM BM069 - BM072
 STATIC: 7NO6 ALUMOWELD – NESC 250B HEAVY LOADING D.T 5200# INITIAL RS, 3300# NESC MED CREEP RS FROM BM069 - BM072
 OPGW: AFL DNO-12326 (0.575" – 72CT FIBER) NESC 250B HEAVY LOADING D.T. 4800# INITIAL RS

PHASING HAS BEEN SEQUENCED ON DBL CKT TO REDUCE EMF

SAG CHARTS WILL BE MADE AVAILABLE WITHIN ONE WEEK OF REQUEST - IF ALL STRUCTURES LOCATED WITHIN THE RESPECTIVE WIRE PULL HAVE BEEN SET.

REFER TO THE 'STANDARD STRUCTURE DRAWING –REV0' AND 'STANDARD ASSEMBLY DRAWING – REV0' FOR ALL ASSEMBLY DRAWINGS NOT INCLUDED IN THE P&P APPENDICES.

CONSTRUCTION NOTES

ANY ROCK ENCOUNTERED DURING STRUCTURE DRILLING SHALL BE CONFIRMED AND AGREED UPON BY THE EKPC REPRESENTATIVE PRIOR TO POLE ERECTION. CONTRACTOR SHALL BE RESPONSIBLE FOR AND DISPOSE OF ALL ROCK REMOVED WHILE EXCAVATING FOR POLE FOUNDATIONS OR ANCHORS.

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL U/G UTILITIES PRIOR TO CROSSING THEIR EASEMENTS. CONTRACTOR SHALL NOT TAKE CONSTRUCTION EASEMENT INTO KINDER MORGAN EASEMENT WITHOUT PRE-AUTHORIZATION FROM KINDER MORGAN. U/G UTILITIES AND GAS LINES HAVE BEEN DISPLAYED ON THE PLAN VIEW PORTION OF THE PLAN & PROFILE DRAWINGS – CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION OF ALL U/G UTILITIES PRIOR TO ANY EXCAVATION.

ALL PI'S WILL REQUIRE A TEMPORARY ALIGNMENT MODIFICATION TO FACILITATE THE INSTALLATION OF THE SELF-SUPPORTING STRUCTURES.

CONDUCTOR AND SHIELD WIRES SHALL BE CLIPPED WITHIN 48 HOURS OF SAGGING WIRE.

CONTRACTOR SHALL SAG ALL WIRE UTILIZING THE JERK-SAG METHOD. EKPC'S REPRESENTATIVE ON-SITE SHALL VERIFY ALL SAGGING ACTIVITIES; CONTRACTOR SHALL CORRECT ANY DISCREPANCIES IMMEDIATELY. CONTRACTOR SHALL EXERCISE CAUTION TO THE GREATEST EXTENT POSSIBLE IN ALL RESIDENTIAL LOCATIONS. MATTING WILL BE REQUIRED IN ALL RESIDENTIAL YARDS.

AT THE END OF THE WORKDAY, CONTRACTOR WILL LEAVE THE TRANSMISSION LINE IN A STATE THAT WILL ALLOW EMERGENCY RESTORATION UNLESS AUTHORIZED OTHERWISE BY EKPC PROJECT MANAGER.

CONTRACTOR SHALL UTILIZE SIGNAGE TO CONVEY THAT OVERHEAD TRANSMISSION WORK IS BEING CONDUCTED. SIGNAGE LOCATION AND FREQUENCY SHALL BE SUCH THAT ALL AREAS WHERE PEDESTRIAN ACCESS IS TO BE REASONABLY EXPECTED CAN BE OBSERVED BY ANY PEDESTRIANS IN THE AREA.

WHEN SUBMITTING WIRE PULL PLANS:

- THE CONTRACTOR SHALL SUBMIT THE PICTURES AND POLE NUMBERS (COORDINATES IF POLE NUMBER CANNOT BE FOUND) OF ALL DISTRIBUTION, TELECOMMUNICATION AND OTHER AERIAL OBSTRUCTIONS AS WELL AS REMEDIATION TAKEN TO REDUCE RISK WHILE PULLING WIRE.
- CONTRACTOR SHALL INSTALL GUARDS AT ALL RESIDENTIAL DRIVEWAYS AND INCLUDE IMAGES OF THE GUARD(S) AND METHODS UTILIZED.
- CONTRACTOR SHALL SUBMIT PICTURES OF PEDESTRIAN SIGNAGE WITH THE PULL PLAN.
- CONTRACTOR SHALL SUBMIT COMMUNICATION PLAN FOR ALL WIRE PULLS.

CONTRACTOR SHALL NOT USE EXISTING CONDUCTOR TO PULL IN NEW CONDUCTOR. EXISTING CONDUCTOR CAN BE UTILIZED TO PULL IN PULLING ROPES ONLY. EXISTING SHIELD WIRES SHALL BE USED ONLY TO PULL IN P-LINE.

CONTRACTOR SHALL INSPECT ALL WIRE PRIOR TO ANY WIRE-PULLING OPERATIONS TO CONFIRM SUFFICIENT INTEGRITY TO PERFORM ANY PULLING OPERATIONS. ANY DEFICIENCIES SHALL BE REMEDIED PRIOR TO ANY PULLING OPERATIONS BEING CONDUCTED.

NO EXCAVATIONS SHALL BE LEFT EXPOSED WHEN LEFT UNATTENDED.

CONTRACTOR IS REQUIRED TO CONTACT 811 BEFORE COMMENCING ANY EXCAVATION ACTIVITIES



REVISIONS				APPROVALS				DATE
NO.	DATE	DWN	APP	DESIGNED	REVIEWED	APPROVED		
1.	AS BUILT			LUCAS SPENCER		LUCAS SPENCER	07/07/23	



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FAWKES-DUNCANNON DBL CKT 69/138KV
 'BM'/'ZL'~7.4 MILES

DWG. NO.	
BM-NOTES	REV. 1
SHEET 2	OF 18



Construction Staking Report

Project Fawkes-Duncannon DBL CKT 138/69

Table with columns: Structure Number, Station (ft), C/L Elevation, Structure Type, Pole Class/Height, Details. Rows include KU FAWKES 69KV SWITCHING, BM001 through BM021.

Print Date: 7/17/2023

Page 1 of 51



Construction Staking Report

Project Fawkes-Duncannon DBL CKT 138/69

Table with columns: Structure Number, Station (ft), C/L Elevation, Structure Type, Pole Class/Height, Details. Rows include BM022 through BM038.

Print Date: 7/17/2023

Page 2 of 51



Construction Staking Report

Project Fawkes-Duncannon DBL CKT 138/69

Table with columns: Structure Number, Station (ft), C/L Elevation, Structure Type, Pole Class/Height, Details. Rows include BM039 through BM056.

Print Date: 7/17/2023

Page 3 of 51



Construction Staking Report

Project Fawkes-Duncannon DBL CKT 138/69

Table with columns: Structure Number, Station (ft), C/L Elevation, Structure Type, Pole Class/Height, Details. Rows include BM057 through BM072.

Print Date: 7/17/2023

Page 4 of 51

Table with columns: REVISIONS, DATE, DWN, APP. Row 1: AS BUILT, 01/12/25, LDS, LDS.

Table with columns: APPROVALS, DATE. Row 1: DESIGNED LUCAS SPENCER, 07/07/23. Row 2: REVIEWED LUCAS SPENCER. Row 3: APPROVED LUCAS SPENCER.



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FAWKES-DUNCANNON DBL CKT 69/138KV 'BM' / 'ZL' ~7.4 MILES

IFC

Table with columns: DWG. NO., REV., SHEET. Row 1: DWG. NO. 18. Row 2: REV. 1. Row 3: SHEET 3 OF 18.

EMBEDMENT DEPTH(S)

Structure Number	Pole	Offset from C/L (ft)	Embedment Depth (ft)
BM001	P	0	8
BM002	P	5.5	9.25
BM003	P	0	11
BM004	P	0	13
BM005	P	-6.25	8.45
	RP	6.25	7.54
BM007	P	-5.25	16
	PR	5.25	15.39
BM008	P	-5.25	17.27
	PR	5.25	16.58
BM009	P	-5.25	14.42
	PR	5.25	13
BM010	P	-5.25	13.87
	PR	5.25	15.43
BM011	P	-5.25	14.61
	PR	5.25	14.5
BM012	P	-5.25	14.23
	PR	5.25	14.63
BM013	P	-5.25	13.28
	PR	5.25	14.84
BM014	P	-5.25	12.43
	PR	5.25	12.39
BM015	Pole	0	0
BM016	P	-5.25	18.3
	PR	5.25	16.96
BM017	P	0	12.5
BM018	P	-5.25	11.59
	PR	5.25	11.13
BM019	P	-5.25	14.24
	PR	5.25	15.86
BM020	P	0	12.5
BM021	P	0	14.5
BM022	Pole	0	0
BM023	Pole	0	0
BM024	P	0	14
BM025	Pole	0	0
BM026	P	-5.25	14.15
	PR	5.25	17.1
BM027	P	0	13
BM028	P	0	14
BM029	P	0	16
BM030	P	0	15

BM031	P	0	14
BM032	P	0	14.5
BM033	P	-5.25	15.27
	PR	5.25	15.09
BM034	P	-5.25	15.29
	PR	5.25	11.22
BM035	P	-5.25	12.45
	PR	5.25	13.2
BM036	P	-5.25	11.64
	PR	5.25	13.45
BM037	Pole	0	0
BM038	P	-5.25	13.14
	PR	5.25	13.85
BM039	Pole	0	0
BM040	P	-5.25	16.7
	PR	5.25	15.94
BM041	P	-5.25	17.62
	PR	5.25	16.45
BM042	P	-5.25	13.12
	PR	5.25	13.04
BM043	P	-5.25	11.9
	PR	5.25	12.28
BM044	P	-5.25	14.68
	PR	5.25	17.32
BM045	P	-5.25	14.66
	PR	5.25	14.14
BM046	P	-5.25	12.5
	PR	5.25	12.43
BM047	P	-5.25	13
	PR	5.25	12.31
BM048	P	-5.25	14.5
	PR	5.25	14.95
BM049	P	-5.25	12.97
	PR	5.25	12.24
BM050	Pole	0	0
BM051	P	-5.25	13.32
	PR	5.25	13.85
BM052	P	-5.25	12.63
	PR	5.25	12.22
BM053	P	-5.25	11.84
	PR	5.25	12.65
BM054	P	-5.25	17.42
	PR	5.25	16.9
BM055	P	-5.25	17.76
	PR	5.25	16.61
BM056	P	-5.25	14.45
	PR	5.25	15.54

BM057	P	-5.25	13.42
	PR	5.25	13.5
BM058	P	-5.25	14.29
	PR	5.25	13.73
BM059	P	0	14.5
BM060	P	0	13.5
BM061	P	-5.25	15.24
BM061	PR	5.25	15.62
BM062	P	0	14
BM063	P	0	14
BM064	P	0	13.5
BM065	P	0	14
BM066	P	0	12.5
BM067	P	0	13
BM068	P	-5.25	14.07
	PR	5.25	13.98
BM069	Pole	0	0
BM070	P	0	12
BM071	P	0	11.5
BM072	P	0	10.5

REVISIONS	DATE	DWN	APP	REVISIONS	DATE	DWN	APP
1. AS BUILT	01/12/25	LDS	LDS				

DESIGNED	APPROVALS	DATE
LUCAS SPENCER		07/07/23
REVIEWED		
APPROVED	LUCAS SPENCER	






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WINCHESTER, KY 40391
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FAWKES-DUNCANNON DBL CKT 69/138KV
"BM" / "ZL" ~7.4 MILES

IFC

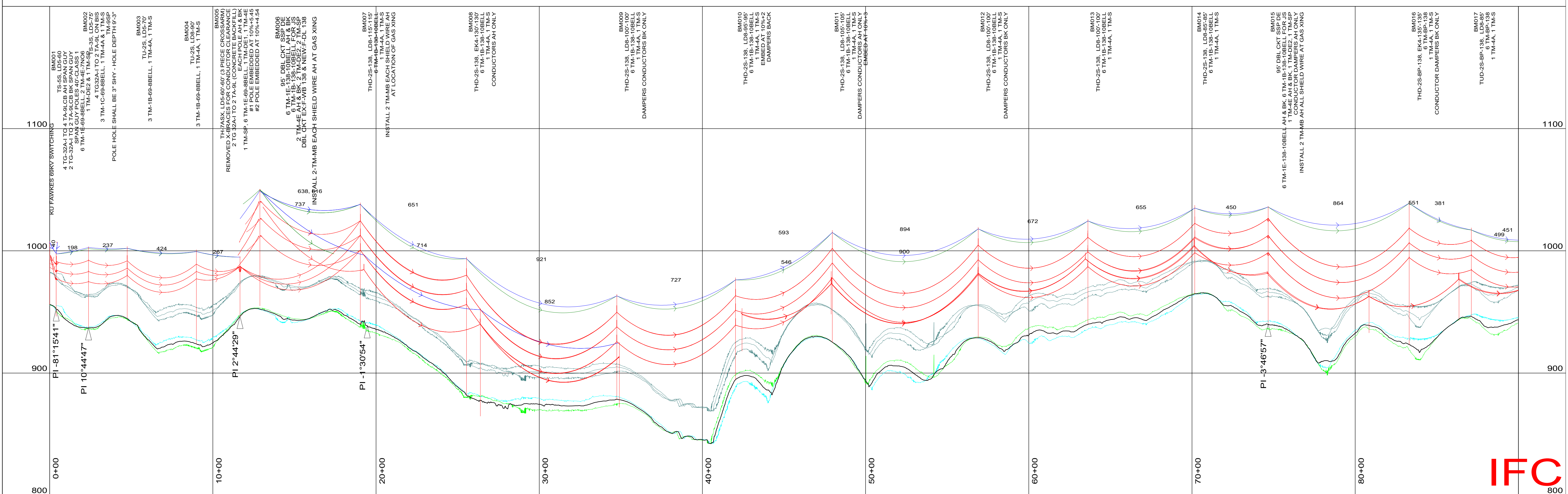
DWG. NO.	REV.
	1
SHEET 4 OF 18	

LEGEND

-  EXISTING STRUCTURE TO BE REMOVED
-  NEW STRUCTURE
-  DISTRIBUTION



- CU FAWKES 69KV SWITCHING - BM001, 7NO_6_ALUMOWELD_SLACK.WIR, DISPLAYED 0 DEG F CREEP 159 (LBS)
- KU FAWKES 69KV SWITCHING - BM001, DRAKE_ACSR_SLACK.WIR, DISPLAYED 212 DEG F CREEP
- BM001 - BM005, DRAKE_ACSR_450_7163_ML.WIR, DISPLAYED 212 DEG F CREEP
- BM001 - BM005, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 2801 (LBS)
- BM001 - BM005, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 3688 (LBS)
- BM005 - BM015, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP
- BM015 - BM022, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 2377 (LBS)
- BM015 - BM022, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 1647 (LBS)
- BM015 - BM022, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP
- BM006 - BM015, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP
- BM006 - BM015, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 1458 (LBS)
- BM006 - BM015, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 2053 (LBS)



REVISIONS	DATE	DWN	APP	REVISIONS	DATE	DWN	APP

DESIGNED	APPROVED	DATE
LUCAS SPENCER	LUCAS SPENCER	07/07/23



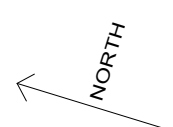
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PHONE: (859) 744-4812

**FAWKES-DUNCANNON DBL CKT 69/138KV
"BM" / "ZL" ~7.4 MILES**

300.0 FT. HORIZ. SCALE
40.0 FT. VERT. SCALE

IFC

DWG. NO. **BM1**
REV. **1**
SHEET **5** OF **18**

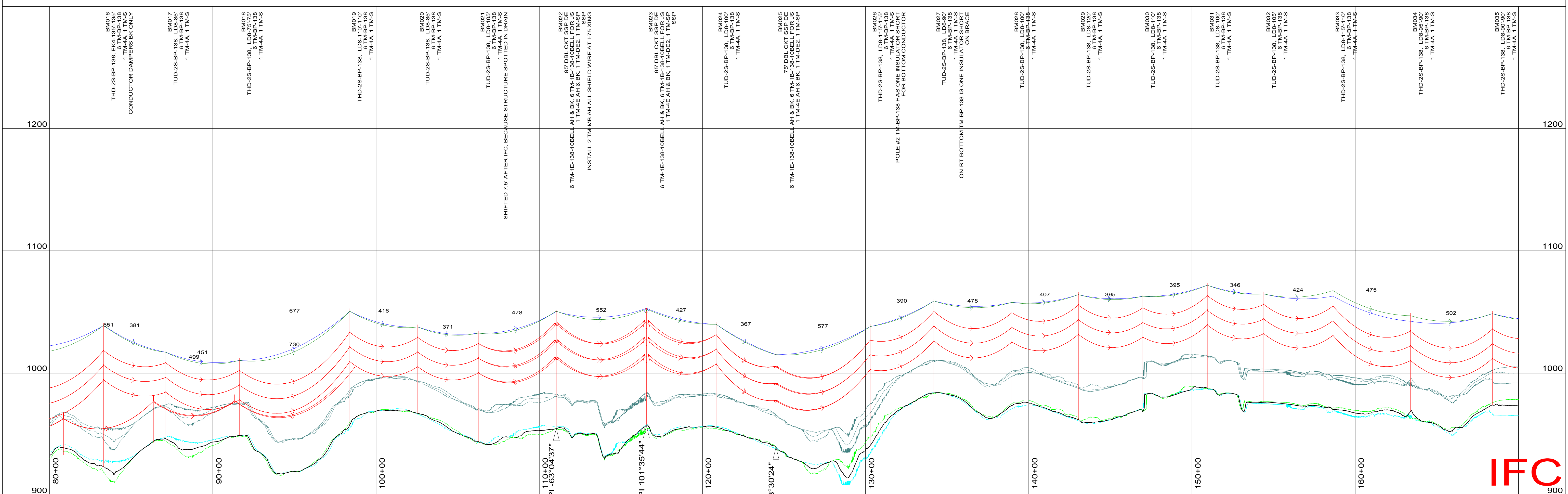


LEGEND

- ⊗ EXISTING STRUCTURE TO BE REMOVED
- NEW STRUCTURE
- DISTRIBUTION



BM015 - BM022, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 2377 (LBS)
 BM015 - BM022, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 1647 (LBS)
 BM015 - BM022, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP
 BM022 - BM023, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 2649 (LBS)
 BM022 - BM023, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 1817 (LBS)
 BM022 - BM023, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP
 BM023 - BM025, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 3346 (LBS)
 BM023 - BM025, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 2410 (LBS)
 BM023 - BM025, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP
 BM025 - BM037, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 3049 (LBS)
 BM025 - BM037, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 2142 (LBS)
 BM025 - BM037, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP



REVISIONS	DATE	DWN	APP
1. AS BUILT	01/12/25	LDS	LDS

APPROVALS

DESIGNED: LUCAS SPENCER 07/07/23

REVIEWED:

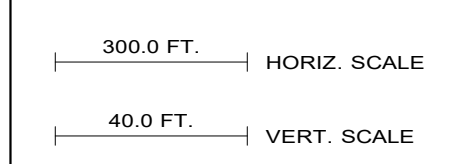
APPROVED: LUCAS SPENCER

DATE: 07/07/23



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**FAWKES-DUNCANNON DBL CKT 69/138KV
 'BM' / 'ZL' ~7.4 MILES**



DWG. NO. **BM2**

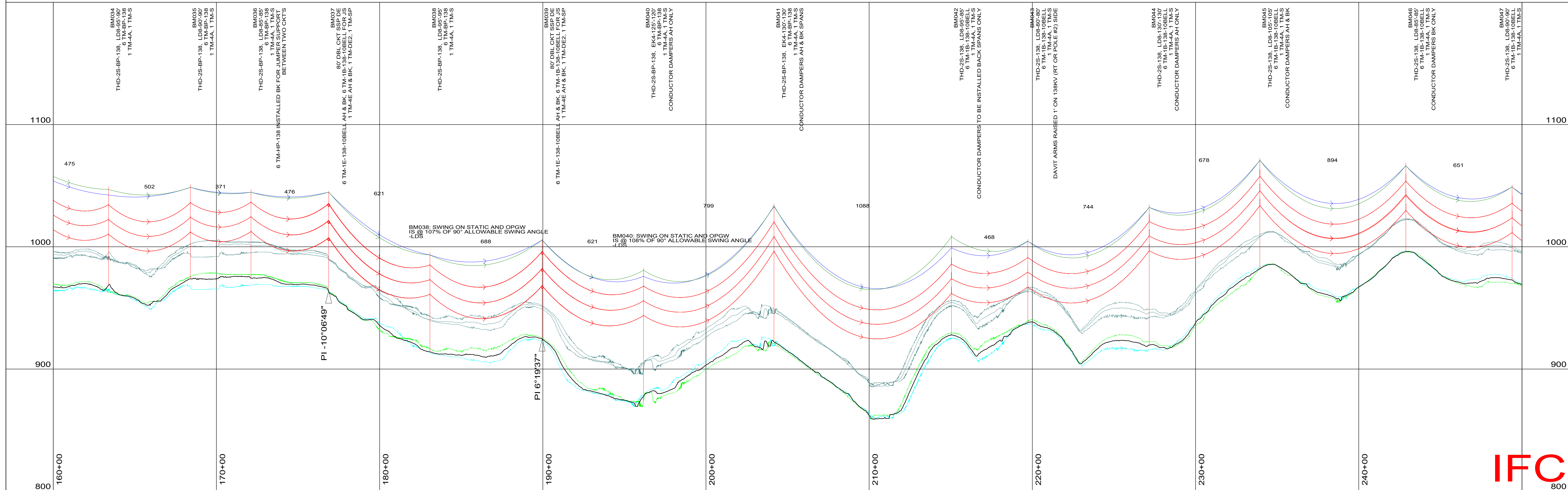
REV. **1**

SHEET **6** OF **18**





- BM025 - BM037, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 3049 (LBS)
- BM025 - BM037, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 2142 (LBS)
- BM025 - BM037, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP
- BM037 - BM039, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 2227 (LBS)
- BM037 - BM039, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 1549 (LBS)
- BM037 - BM039, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP
- BM039 - BM050, 7NO_6_ALUMOWELD.WIR, DISPLAYED EXTREME ICE - HEAVY CREEP 6864 (LBS)
- BM039 - BM050, AFL_575-72FIBER.WIR, DISPLAYED EXTREME ICE - HEAVY CREEP 6266 (LBS)
- BM039 - BM050, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP



REVISIONS	DATE	DWN	APP

DESIGNED	REVIEWED	APPROVED	DATE
LUCAS SPENCER	LUCAS SPENCER	LUCAS SPENCER	07/07/23

APPROVALS

DESIGNED: LUCAS SPENCER DATE: 07/07/23

REVIEWED: LUCAS SPENCER

APPROVED: LUCAS SPENCER

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WINCHESTER, KY 40391
PHONE: (859) 744-4812

FAWKES-DUNCANNON DBL CKT 69/138KV
"BM" / "ZL" ~7.4 MILES

300.0 FT. HORIZ. SCALE

40.0 FT. VERT. SCALE

DWG. NO. 800

BM3

REV. 1

SHEET 7 OF 18



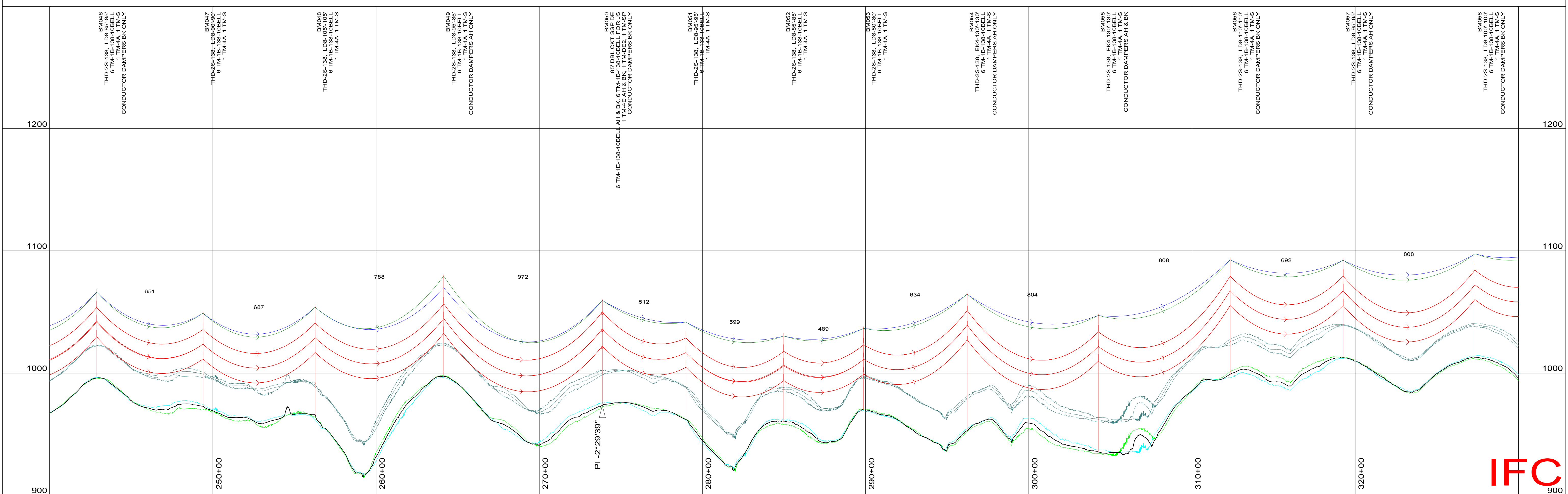
TO



LEGEND

- EXISTING STRUCTURE TO BE REMOVED
- NEW STRUCTURE
- DISTRIBUTION

BM039 - BM050, 7NO_6_ALUMOWELD.WIR, DISPLAYED EXTREME ICE - HEAVY CREEP 6864 (LBS)
 BM039 - BM050, AFL_575-72FIBER.WIR, DISPLAYED EXTREME ICE - HEAVY CREEP 6266 (LBS)
 BM039 - BM050, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP
 BM050 - BM069, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 2320 (LBS)
 BM050 - BM069, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 1607 (LBS)
 BM050 - BM069, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP



REVISIONS	DATE	DWN	APP

DESIGNED	DATE
LUCAS SPENCER	07/07/23

REVIEWED	DATE	DWN	APP

APPROVED	DATE
LUCAS SPENCER	

APPROVALS

DESIGNED: LUCAS SPENCER 07/07/23

REVIEWED: [Signature]

APPROVED: LUCAS SPENCER

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 WINCHESTER, KY 40391
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IFC

FAWKES-DUNCANNON DBL CKT 69/138KV
 "BM" / "ZL" ~7.4 MILES

300.0 FT. HORIZ. SCALE
 40.0 FT. VERT. SCALE

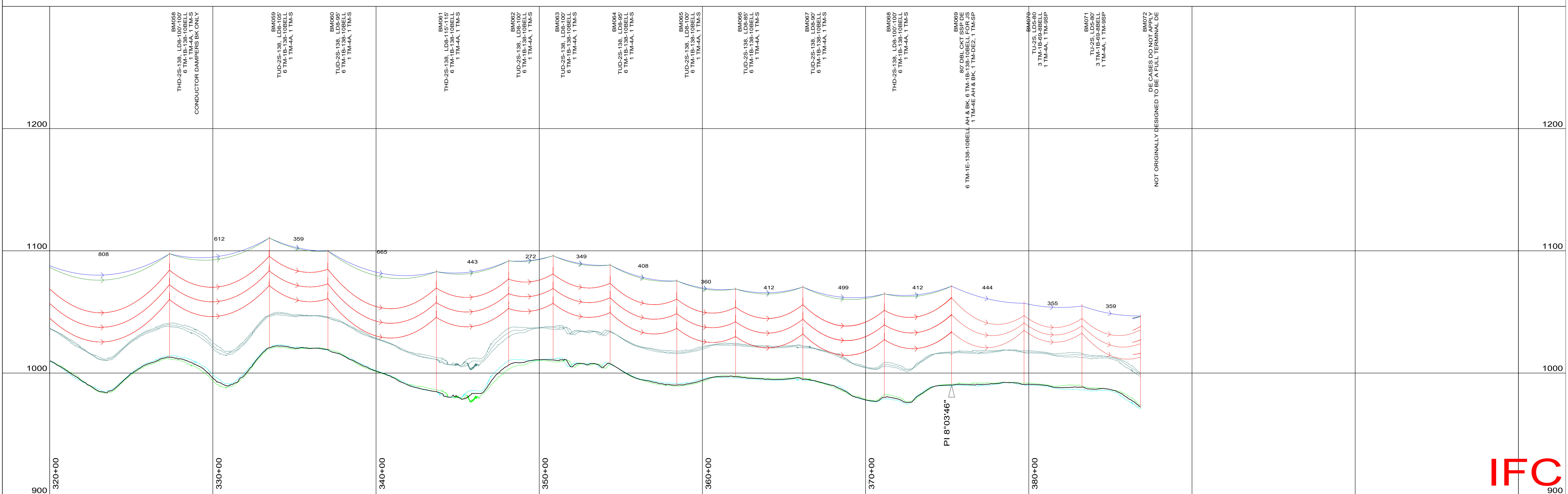
DWG. NO. **BM4**
 REV. **1**
 SHEET **8** OF **18**



LEGEND

- ⊗ EXISTING STRUCTURE TO BE REMOVED
- NEW STRUCTURE
- DISTRIBUTION

- BM050 - BM069, 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 2320 (LBS)
- BM050 - BM069, AFL_575-72FIBER.WIR, DISPLAYED 0 DEG F CREEP 1607 (LBS)
- BM050 - BM069, DRAKE_ACSR_450_8765_HL.WIR, DISPLAYED 212 DEG F CREEP
- BM069 - BM072, 7NO_6_ALUMOWELD_3631ML-MATCH 3-8HSS.WIR, DISPLAYED 0 DEG F CREEP 2999 (LBS)
- BM069 - BM072, DRAKE_ACSR_6083ML - MATCH 556.WIR, DISPLAYED 212 DEG F CREEP 2000 (LBS)
- BM072 - BM074, 3_8-7_STRAND_HS_STEEL_3631ML-DUNC-CROOK.WIR, DISPLAYED 0 DEG F MAX SAG 2546 (LBS)
- BM072 - BM074, DOVE_ACSR_TW_6083ML-DUNCANNON-CROOK.WIR, DISPLAYED 212 DEG F MAX SAG 1867 (LBS)
- BM072 - UNDEFINED (#122 IN LINE), 7NO_6_ALUMOWELD.WIR, DISPLAYED 0 DEG F CREEP 3477 (LBS)
- BM072 - UNDEFINED (#122 IN LINE), SFPOC_470-48FIBER-44KA2_800_3540_ML.WIR, DISPLAYED 0 DEG F CREEP 4631 (LBS)
- BM072 - UNDEFINED (#122 IN LINE), PARTRIDGE_ACSR_800_3673_ML.WIR, DISPLAYED 60 DEG F CREEP FE



REVISIONS	DATE	DWN	APP

REVISIONS	DATE	DWN	APP
1. AS BUILT	01/12/25	LDS	LDS

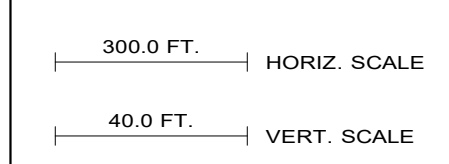
APPROVALS

DESIGNED	LUCAS SPENCER	DATE	07/07/23
REVIEWED			
APPROVED	LUCAS SPENCER		



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PHONE: (859) 744-4812

**FAWKES-DUNCANNON DBL CKT 69/138KV
"BM" / "ZL" ~7.4 MILES**



IFC

DWG. NO. 900
BM5
REV. 1
SHEET 9 OF 18

QTY	DESCRIPTION	QUANTITY
1	STANDARD MEYER H 40 DAVIT ARM	2
2	ONE-SIDED THROUGH VANG (LENGTH TBD)	4
3	8"x8"x3/8" ANGLE FOR X-BRACE	2
4	ONE-SIDED THROUGH VANG (LENGTH TBD)	2
5	HUBBELL PART NO. BLP051G12000	8

NOTE:
 GROUND SLEEVE ON ALL POLES SHALL BE 8'-0" CENTERED AT THE GROUND LINE
 ALL POLES SHALL HAVE BOLTED FLANGE CONNECTIONS
 POLE HEIGHTS VARY BASED ON DESIGN NEED
 ALL TYPICAL FOUNDATIONS ARE EMBEDDED AT 10% OF THE POLE HEIGHT PLUS 4' (10%+4') UNLESS OTHERWISE SPECIFIED
 REFER TO THD-2S-BP-138 SH2 & THD-2S-BP-138 SH3 FOR DETAILS AND SPECIFICATIONS
 ALL DAVIT ARMS AND X-BRACES TO BE PROVIDED BY STEEL POLE MANUFACTURER
 ALL CONNECTION HARDWARE AT FLANGE, DAVIT ARMS AND X-BRACES SHALL BE PROVIDED BY STEEL POLE MANUFACTURER
 DIMENSIONS REFERENCED FOR SPECIFIC POLES IN "EXHIBIT A - STRUCTURE SPACINGS AND DEFINITIONS"
 DEFINITIONS FOR ALL DIMENSION CALLOUTS REFERENCED IN "EXHIBIT A - STRUCTURE SPACINGS AND DEFINITIONS"
 POLES SHALL BE MANUFACTURED TO AVOID CONFLICTS WITH ANY OF THE ATTACHMENTS IN THE DRAWING WITH THE FLANGE CONNECTION OF THE STEEL POLE

APPROVALS	DATE	EAST KENTUCKY POWER
DESIGNED: L. SPENCER	03/12/23	WINCHESTER, KENTUCKY 40392
DESIGNED:		THD-2S-BP 138kV
DESIGNED:		STRUCTURE DRAWING
DESIGNED:		DIMENSIONS AND NOTES

DRAFT

DETAIL A1: MEYER CATALOG # H_40 DAVIT ARM SHALL NOT BE CURVED

DETAIL A2: HOLES TO BE PRE-DRILLED, DIMENSIONS AS REQ'D FOR HUBBELL PART NO. BLP051G12000

DETAIL A3: TO BE INSTALLED BY STEEL POLE MFG SUSPENSION/BRACE INSULATOR AT LOCATION

DETAIL A4: 3/8" X 5' X 5' ANGLE FOR X-BRACE PRE-DRILLED

DETAIL A5: TYPE 1 ONE WAY THRU VANG FOR X-BRACE ATTACHMENT

DETAIL A6: EMBEDMENT DEPTH SHALL BE 10% OF POLE HEIGHT PLUS 4 FT (10%+4')

DETAIL A7: NEMA 2 HOLE GROUND PAD DETAIL

DETAIL A8: STRUCTURE NAME PLATE LOCATION

DETAIL A9: NEMA 2 HOLE GROUND PAD LOCATIONS

NOTE:
 DETAILS CONT. ON THD-2S-BP SH3

APPROVALS	DATE	EAST KENTUCKY POWER
DESIGNED: L. SPENCER	03/12/23	WINCHESTER, KENTUCKY 40392
DESIGNED:		THD-2S-BP 138kV
DESIGNED:		STRUCTURE DRAWING
DESIGNED:		DETAILS

DRAFT

STRUCTURE NAME PLATE DETAIL DETAIL A10: EKPC STRUCTURE # CLASS/HEIGHT LP/RP/P MO/YR 1-800-744-4812

POLE CAP DETAIL DETAIL A11: 3/8" PLATE POLE CAP, 1/2" SS NUT, ORIENT PERPENDICULAR TO CENTERLINE

STEP LUGS DETAIL DETAIL A12: CLIMBING: PROVIDE STEP LUGS FROM POLE TOP TO APPROXIMATELY 10'-0" MIN. ABOVE GROUND LINE, SPACED VERTICALLY AT 1'-0" APART. WORKING: PROVIDE DOUBLE STEP LUGS AT APPROXIMATELY 3'-0" BELOW THE TOP THRU VANG, AT APPROXIMATELY 33" BELOW ARM LOCATIONS, AND AT APPROXIMATELY 10'-0" ABOVE GROUND LINE.

APPROVALS	DATE	EAST KENTUCKY POWER
DESIGNED: L. SPENCER	03/12/23	WINCHESTER, KENTUCKY 40392
DESIGNED:		THD-2S-BP 138kV
DESIGNED:		STRUCTURE DRAWING
DESIGNED:		DETAILS (CONT.)

DRAFT

EXHIBIT A - THD-2S-BP

Structure #	Structure Type	Pole Class	LP Height	RP Height	LP-S	LP-TB	LP-TP	LP-MB	LP-MP	LP-BB	LP-BP	LP-XB1	LP-XB2	RP-S	RP-TB	RP-TP	RP-MB	RP-MP	RP-BB	RP-BP	RP-XB1	RP-XB2
BM016	THD-2S-BP-137	EK4	135	135	1'-6"	15'-6"	23'-0"	27'-6"	35'-0"	39'-6"	47'-0"	37'-6"	52'-6"	1'-6"	15'-6"	23'-0"	27'-6"	35'-0"	39'-6"	47'-0"	37'-6"	52'-6"
BM018	THD-2S-BP-138	LD8	75	75	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"	25'-0"	40'-0"	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"	25'-0"	40'-0"
BM019	THD-2S-BP-138	LD8	110	110	1'-6"	12'-6"	20'-0"	24'-6"	32'-0"	36'-6"	44'-0"	34'-0"	49'-0"	1'-6"	12'-6"	20'-0"	24'-6"	32'-0"	36'-6"	44'-0"	34'-0"	49'-0"
BM026	THD-2S-BP-138	LD8	115	115	1'-6"	6'-6"	14'-0"	18'-6"	26'-0"	30'-6"	38'-0"	28'-6"	43'-6"	1'-6"	6'-6"	14'-0"	18'-6"	26'-0"	30'-6"	38'-0"	28'-6"	43'-6"
BM033	THD-2S-BP-138	LD8	115	115	1'-6"	8'-0"	15'-6"	20'-0"	27'-6"	32'-0"	39'-6"	30'-0"	45'-0"	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"	25'-6"	40'-6"
BM034	THD-2S-BP-138	LD8	95	95	1'-6"	8'-0"	15'-6"	20'-0"	27'-6"	32'-0"	39'-6"	30'-0"	45'-0"	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"	25'-6"	40'-6"
BM035	THD-2S-BP-138	LD8	90	90	1'-6"	8'-0"	15'-6"	20'-0"	27'-6"	32'-0"	39'-6"	30'-0"	45'-0"	1'-6"	8'-0"	15'-6"	20'-0"	27'-6"	32'-0"	39'-6"	30'-0"	45'-0"
BM036	THD-2S-BP-138	LD8	85	85	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"	25'-6"	40'-6"	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"	25'-6"	40'-6"
BM038	THD-2S-BP-138	LD8	95	95	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"	25'-6"	40'-6"	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"	25'-6"	40'-6"
BM040	THD-2S-BP-138	EK4	125	120	1'-6"	8'-0"	15'-6"	20'-0"	27'-6"	32'-0"	39'-6"	30'-0"	45'-0"	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"	25'-6"	40'-6"
BM041	THD-2S-BP-138	EK4	130	130	1'-6"	8'-0"	15'-6"	20'-0"	27'-6"	32'-0"	39'-6"	30'-0"	45'-0"	1'-6"	8'-0"	15'-6"	20'-0"	27'-6"	32'-0"	39'-6"	30'-0"	45'-0"

APPROVALS	DATE	EAST KENTUCKY POWER
DESIGNED: LUCAS SPENCER	07/07/23	WINCHESTER, KENTUCKY 40392
DESIGNED:		THD-2S-BP 138kV
DESIGNED:		STRUCTURE DRAWING
DESIGNED:		DETAILS (CONT.)

DRAFT

4775 LEXINGTON RD WINCHESTER, KY 40391 PHONE: (859) 744-4812

FAWKES-DUNCANNON DBL CKT 69/138KV
 "BM" / "ZL" ~7.4 MILES

DWG. NO. THD-2S-BP BM-A1
 REV. 1
 SHEET 10 OF 18



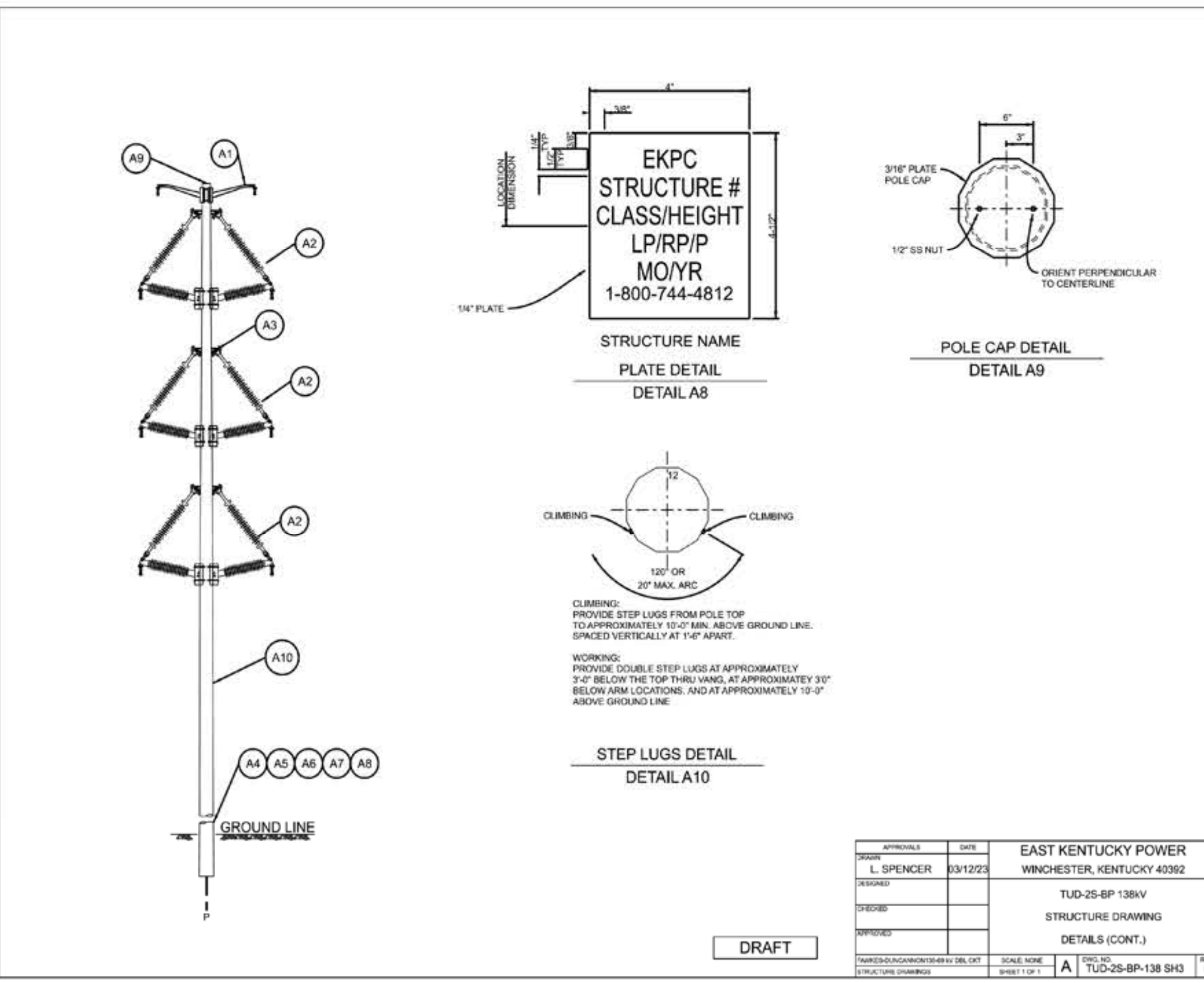
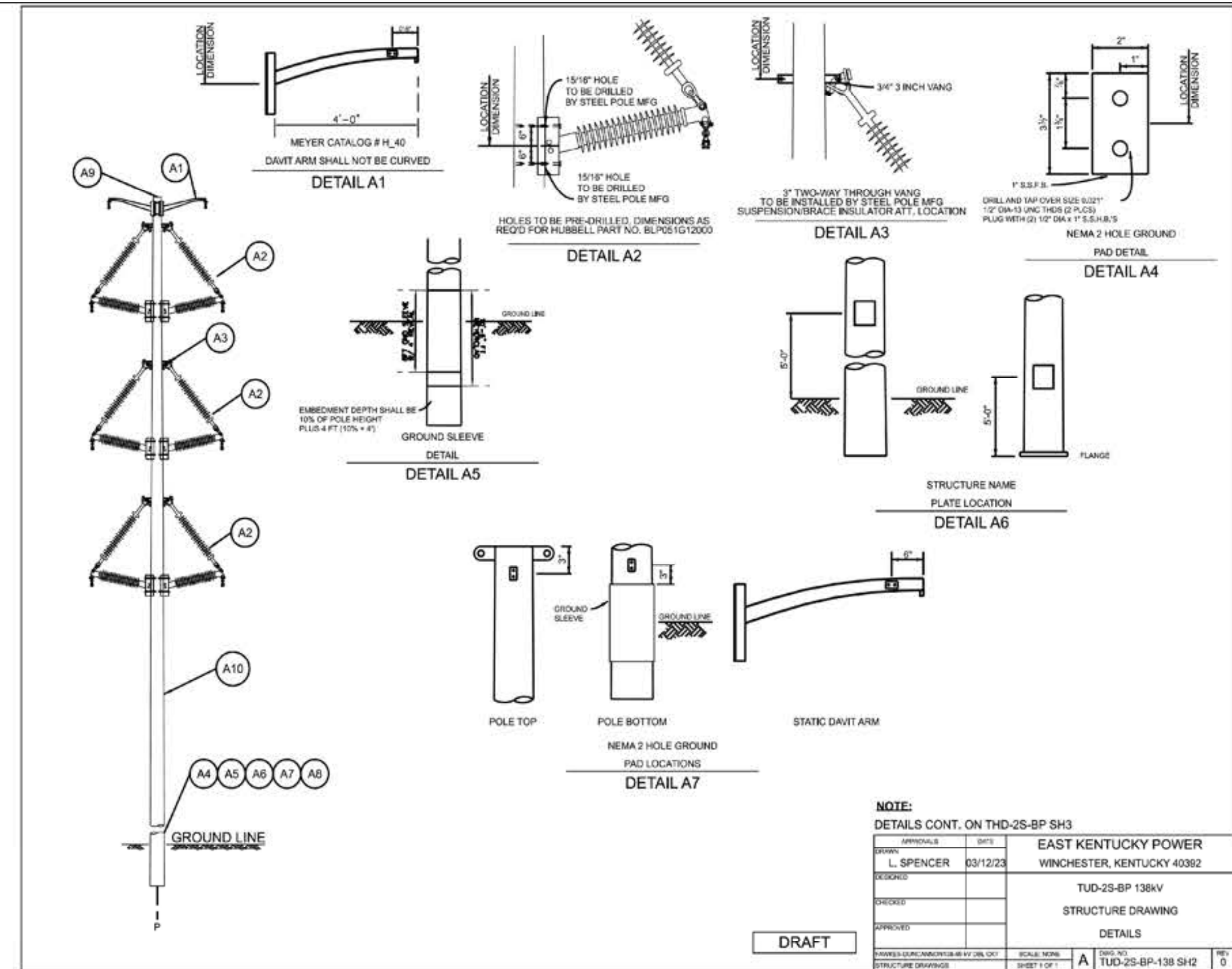
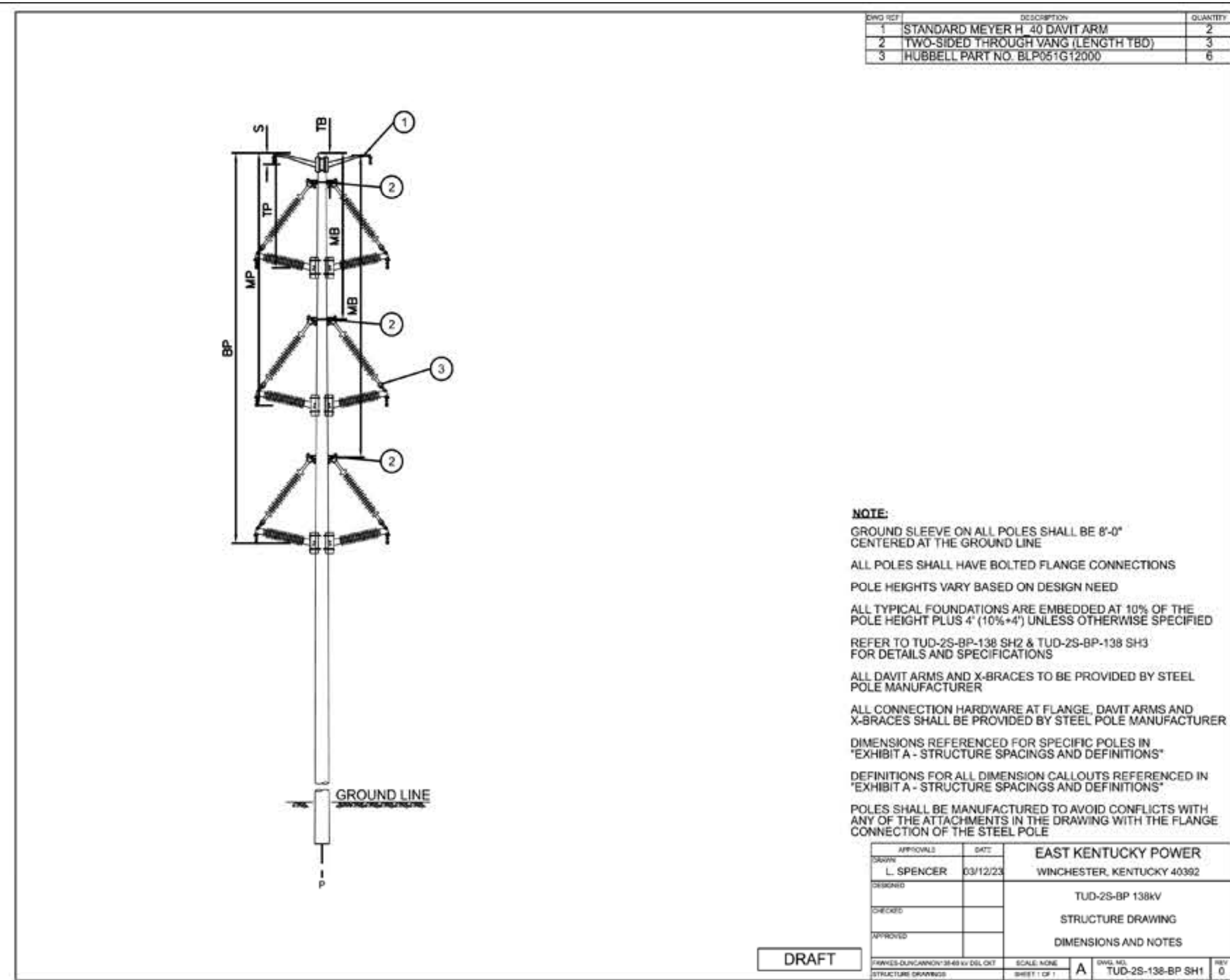


EXHIBIT A - TUD-2S-BP

Structure #	Structure Type	Pole Class	Pole Height	P-S	P-TB	P-TP	P-MB	P-MP	P-BB	P-BP
BM017	TUD-2S-BP-138	LD8	85	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"
BM020	TUD-2S-BP-138	LD8	85	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"
BM021	TUD-2S-BP-138	LD8	105	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"
BM024	TUD-2S-BP-138	LD8	100	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"
BM027	TUD-2S-BP-138	LD8	90	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"
BM028	TUD-2S-BP-138	LD8	100	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"
BM029	TUD-2S-BP-138	LD8	120	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"
BM030	TUD-2S-BP-138	LD8	110	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"
BM031	TUD-2S-BP-138	LD8	100	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"
BM032	TUD-2S-BP-138	LD8	105	1'-6"	3'-6"	11'-0"	15'-6"	23'-0"	27'-6"	35'-0"



APPROVALS	DATE	07/07/23
DESIGNED	LUCAS SPENCER	
REVIEWED		
APPROVED	LUCAS SPENCER	



4775 LEXINGTON RD
 WINCHESTER, KY 40391
 PHONE: (859) 744-4812

FAWKES-DUNCANNON DBL CKT 69/138KV
 'BM' / 'ZL' ~7.4 MILES

TUD-2S-BP

DWG. NO.	BM-A2
REV.	1
SHEET	11 OF 18

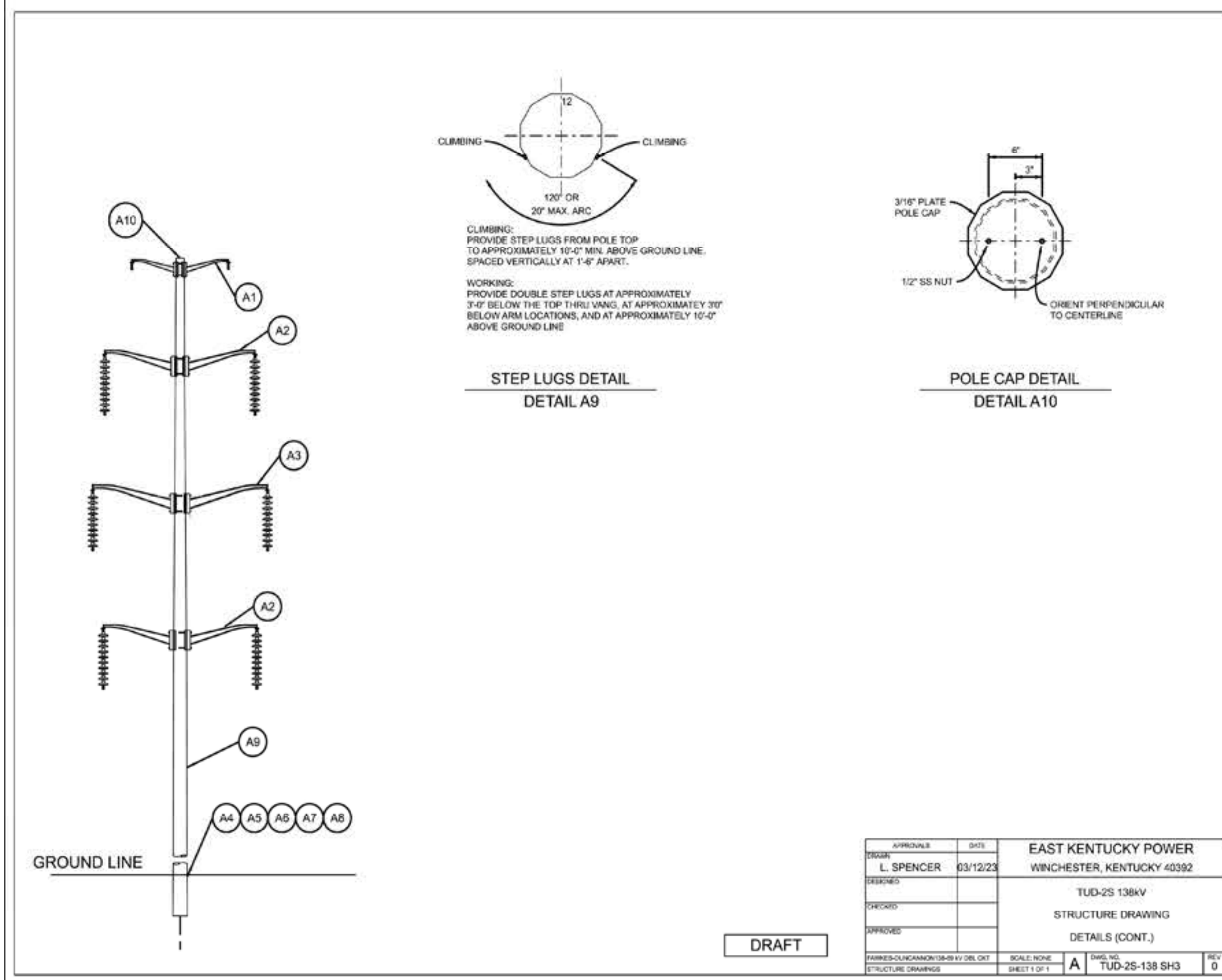
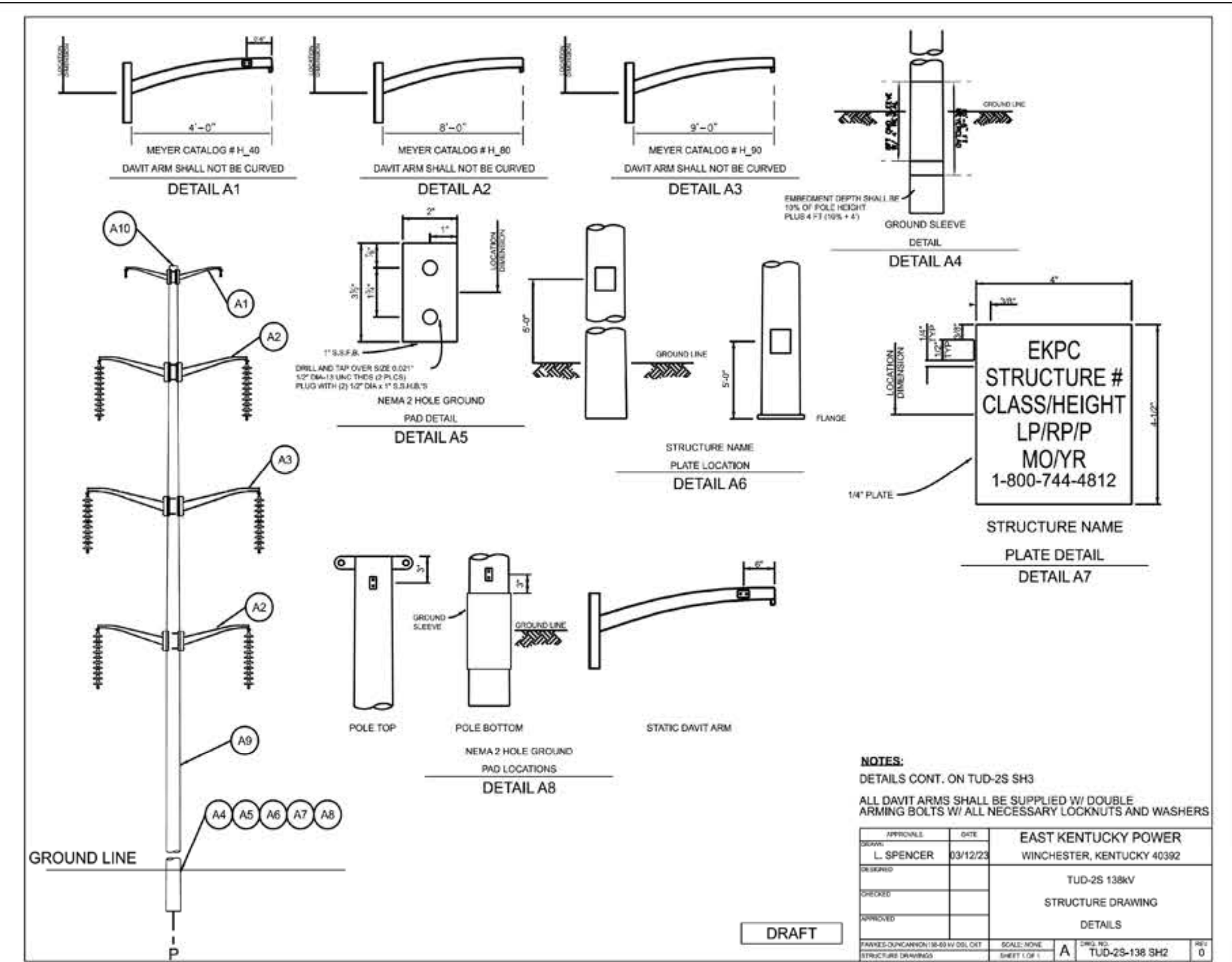
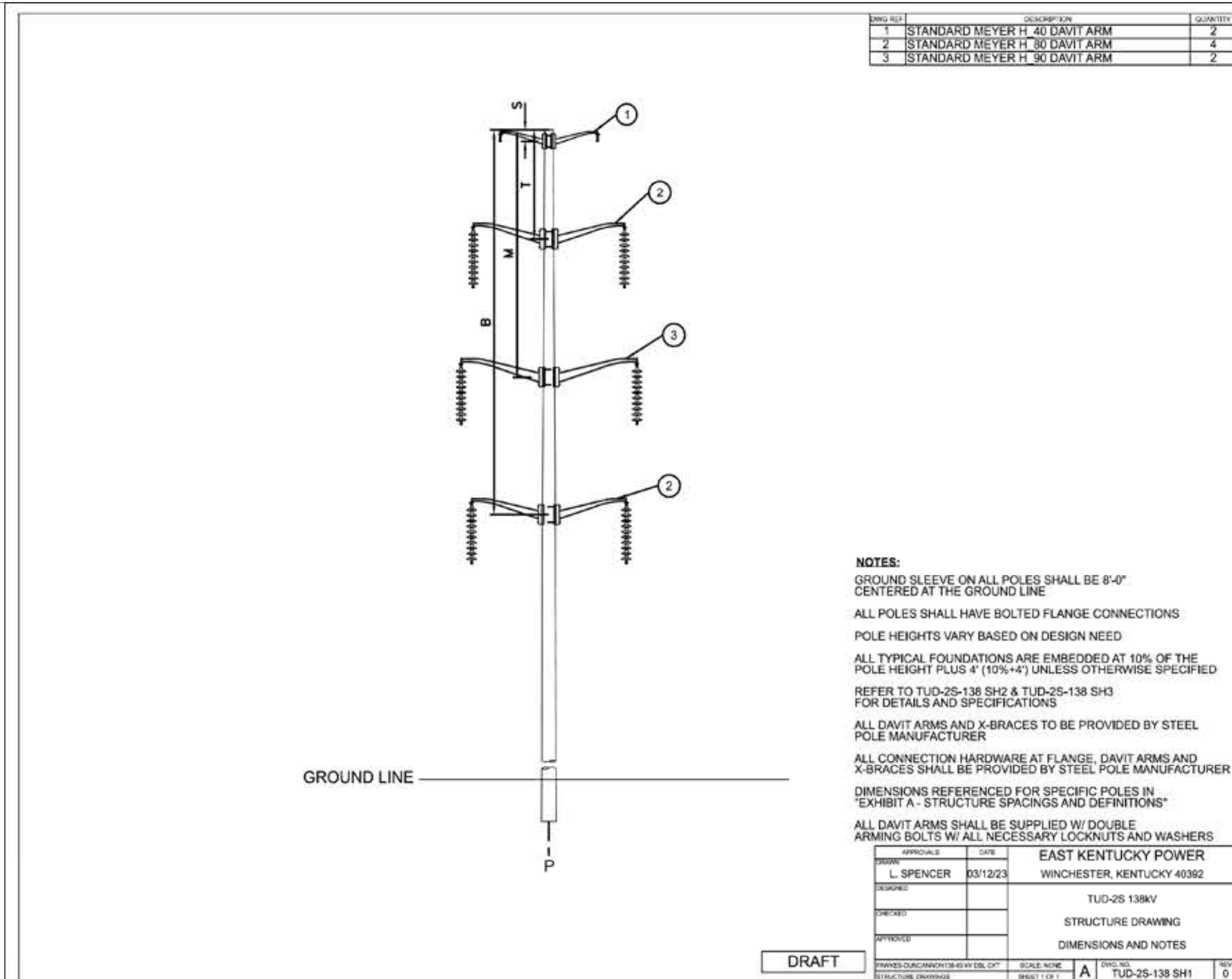


EXHIBIT A - TUD-2S

Structure Number	Structure Type	Pole Class	Pole Height	P-S	P-T	P-M	P-B
BM059	TUD-2S-138	LD8	105	1'-6"	11'-0"	23'-0"	35'-0"
BM060	TUD-2S-138	LD8	95	1'-6"	11'-0"	23'-0"	35'-0"
BM062	TUD-2S-138	LD8	100	1'-6"	11'-0"	23'-0"	35'-0"
BM063	TUD-2S-138	LD8	100	1'-6"	11'-0"	23'-0"	35'-0"
BM064	TUD-2S-138	LD8	95	1'-6"	11'-0"	23'-0"	35'-0"
BM065	TUD-2S-138	LD8	100	1'-6"	11'-0"	23'-0"	35'-0"
BM066	TUD-2S-138	LD8	85	1'-6"	11'-0"	23'-0"	35'-0"
BM067	TUD-2S-138	LD8	90	1'-6"	11'-0"	23'-0"	35'-0"



REVISIONS	DATE	DWN	APP	REVISIONS	DATE	DWN	APP

APPROVALS	DATE
DESIGNED LUCAS SPENCER	07/07/23
REVIEWED	
APPROVED LUCAS SPENCER	

4775 LEXINGTON RD
 WINCHESTER, KY 40391
 PHONE: (859) 744-4812

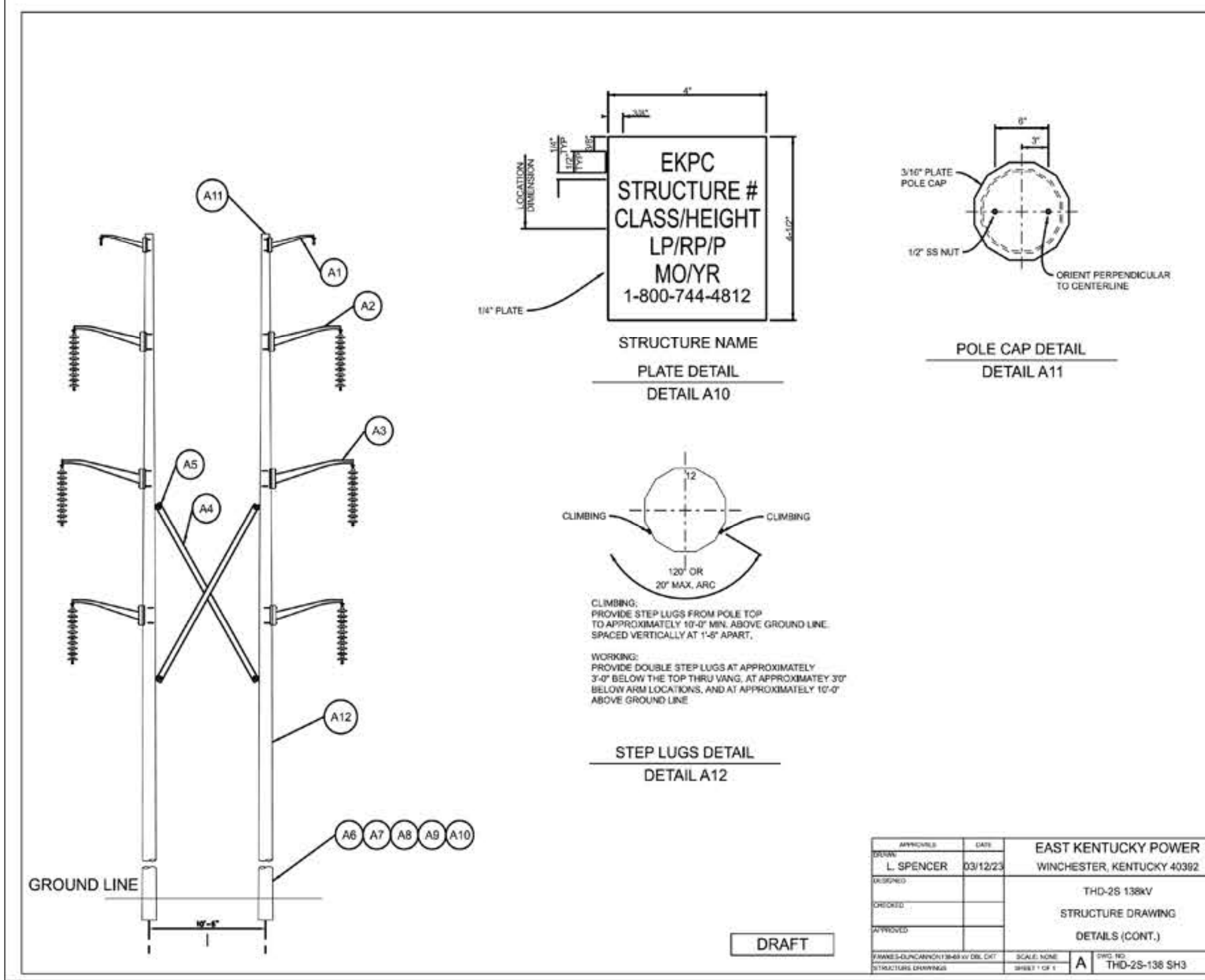
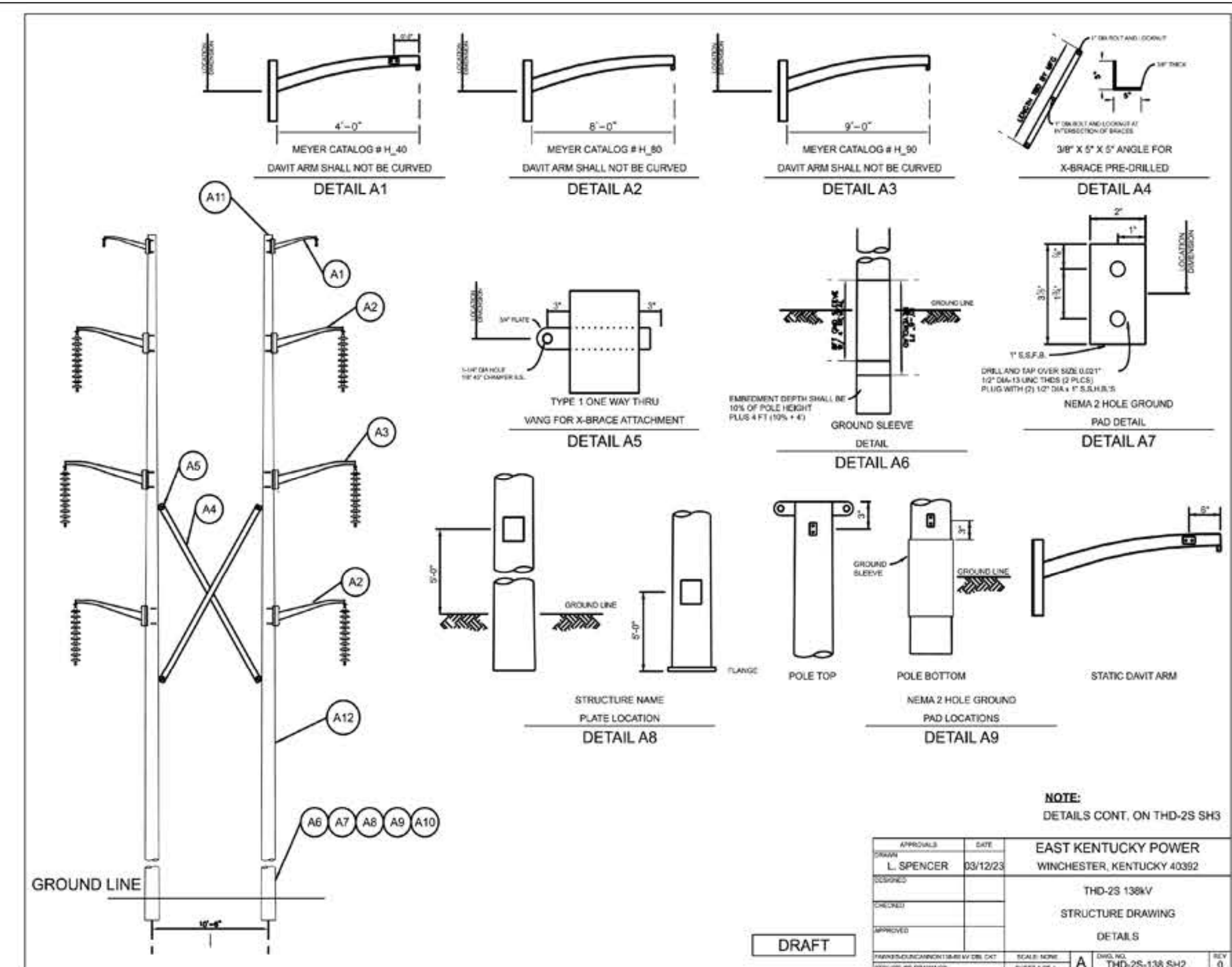
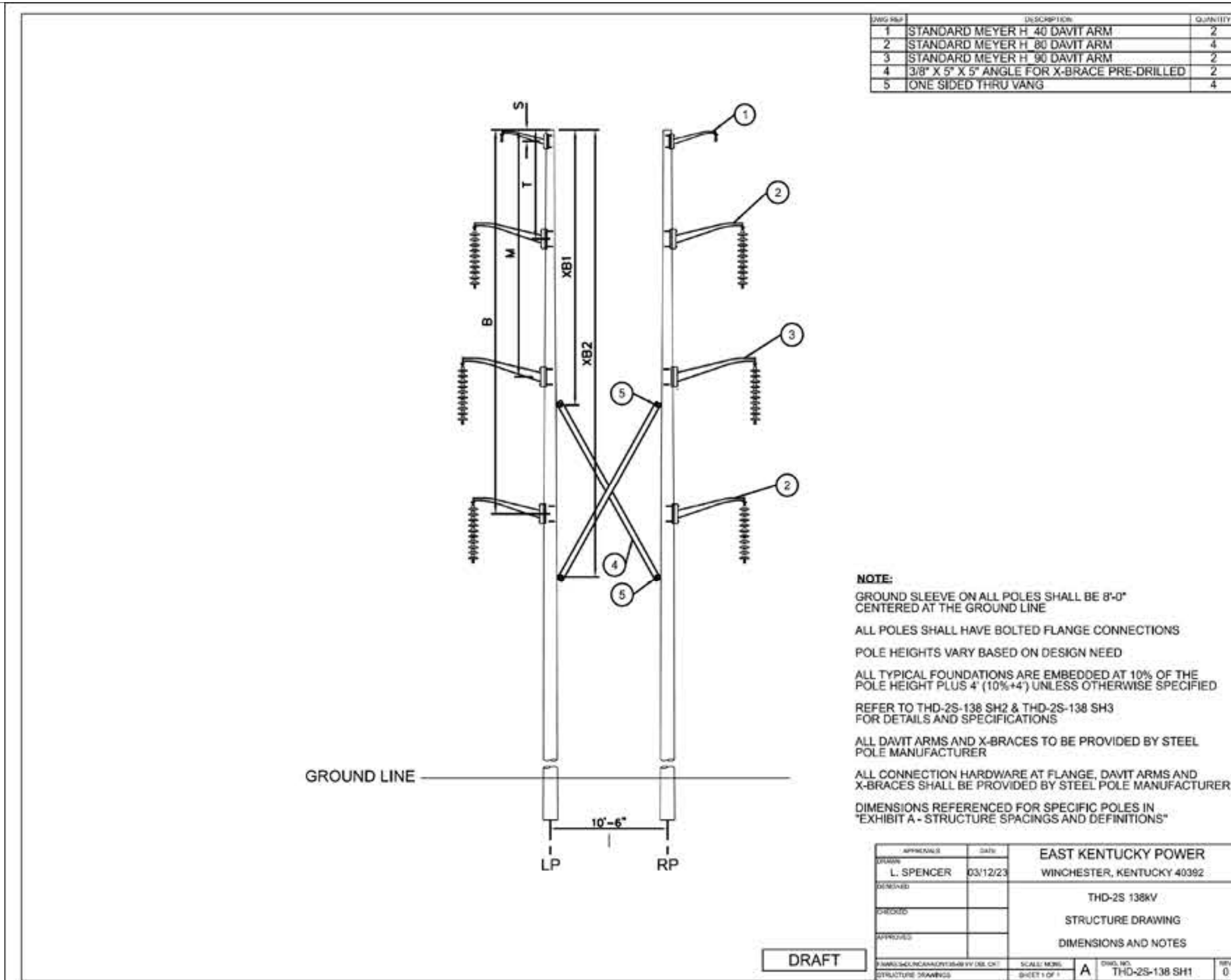


EXHIBIT A - THD-2S

Structure #	Structure Type	Pole Class	LP Height	RP Height	LP-S	LP-T	LP-M	LP-B	LP-XB1	LP-XB2	RP-S	RP-T	RP-M	RP-B	RP-XB1	RP-XB2
BM007	THD-2S-138	LD8	115	115	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM008	THD-2S-138	EK4	130	130	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM009	THD-2S-138	LD8	100	100	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM010	THD-2S-138	LD8	105	105	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM011	THD-2S-138	LD8	95	95	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM012	THD-2S-138	LD8	100	100	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM013	THD-2S-138	LD8	100	100	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM014	THD-2S-138	LD8	85	85	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM042	THD-2S-138	LD8	95	85	1'-6"	18'-6"	30'-6"	42'-6"	33'-0"	48'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM043	THD-2S-138	LD8	80	80	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM044	THD-2S-138	LD8	120	120	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM045	THD-2S-138	LD8	105	105	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM046	THD-2S-138	LD8	85	85	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM047	THD-2S-138	LD8	90	90	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM048	THD-2S-138	LD8	105	105	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM049	THD-2S-138	LD8	95	85	1'-6"	18'-6"	30'-6"	42'-6"	33'-0"	48'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM051	THD-2S-138	LD8	95	95	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM052	THD-2S-138	LD8	85	85	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM053	THD-2S-138	LD8	80	80	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM054	THD-2S-138	EK4	130	130	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM055	THD-2S-138	EK4	130	130	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM056	THD-2S-138	LD8	110	110	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM057	THD-2S-138	LD8	95	95	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM058	THD-2S-138	LD8	100	100	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM061	THD-2S-138	LD8	115	115	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"
BM068	THD-2S-138	LD8	100	100	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"	1'-6"	9'6"	21'-6"	33'-6"	24'-0"	39'-0"



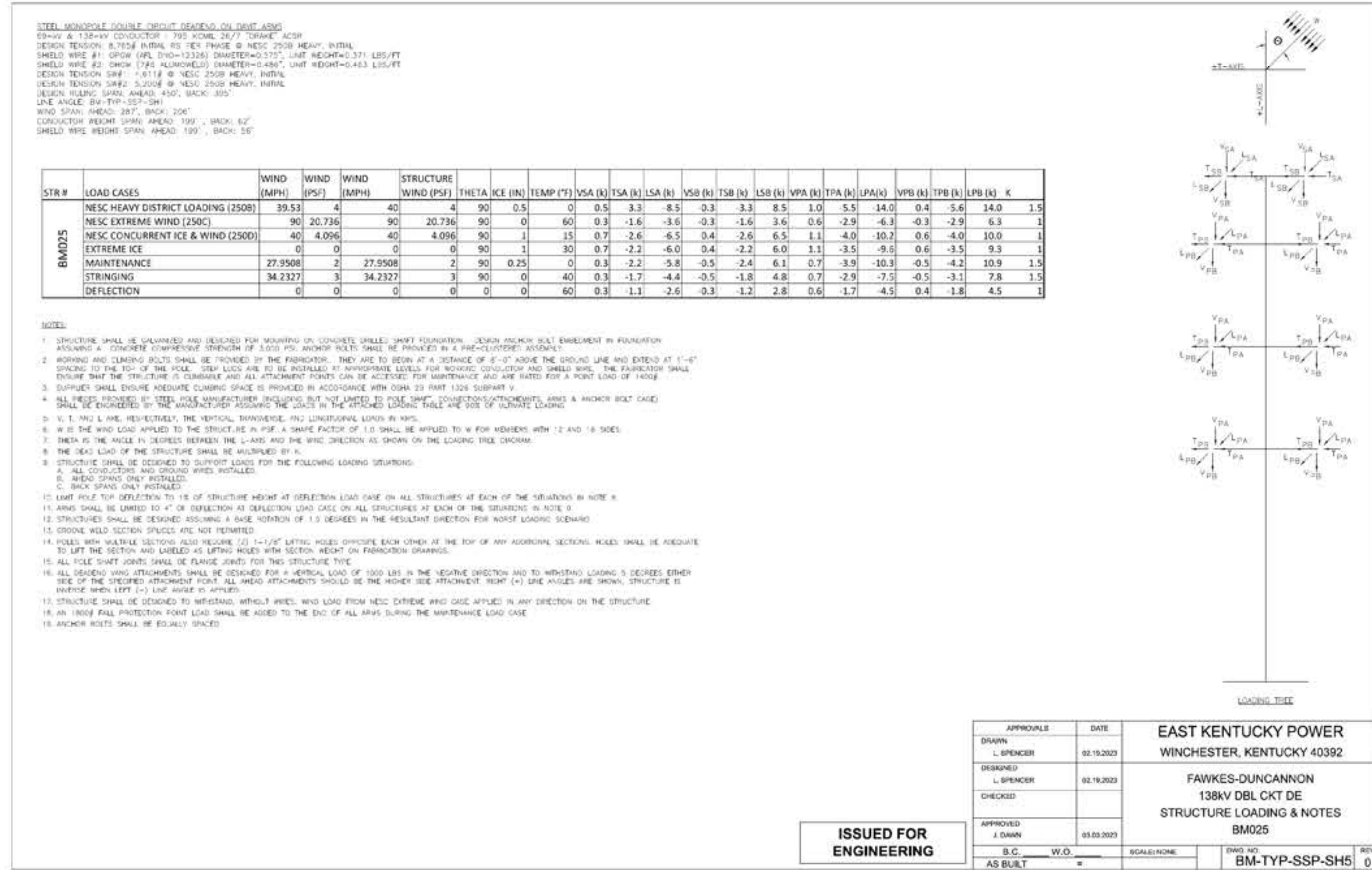
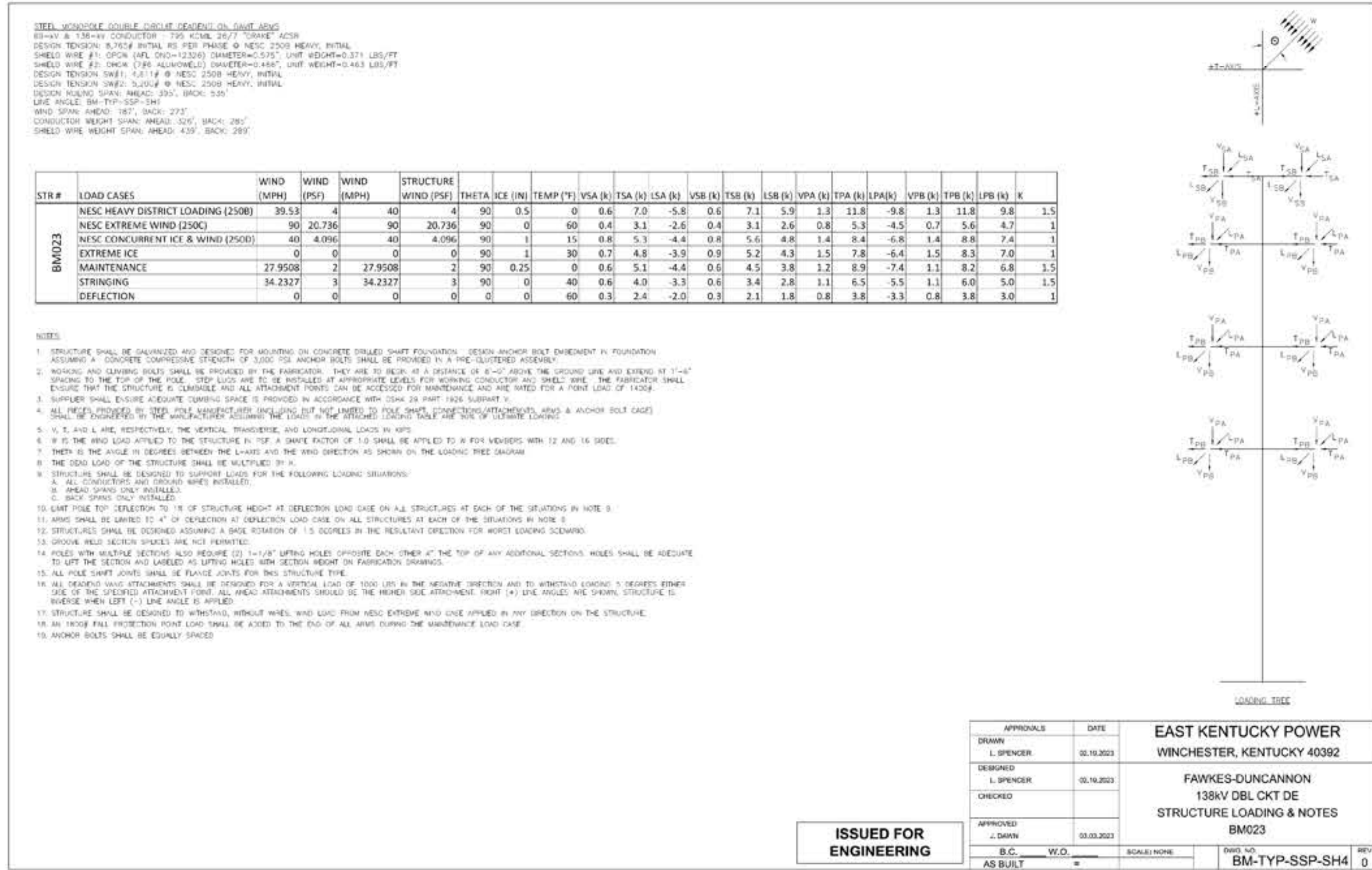
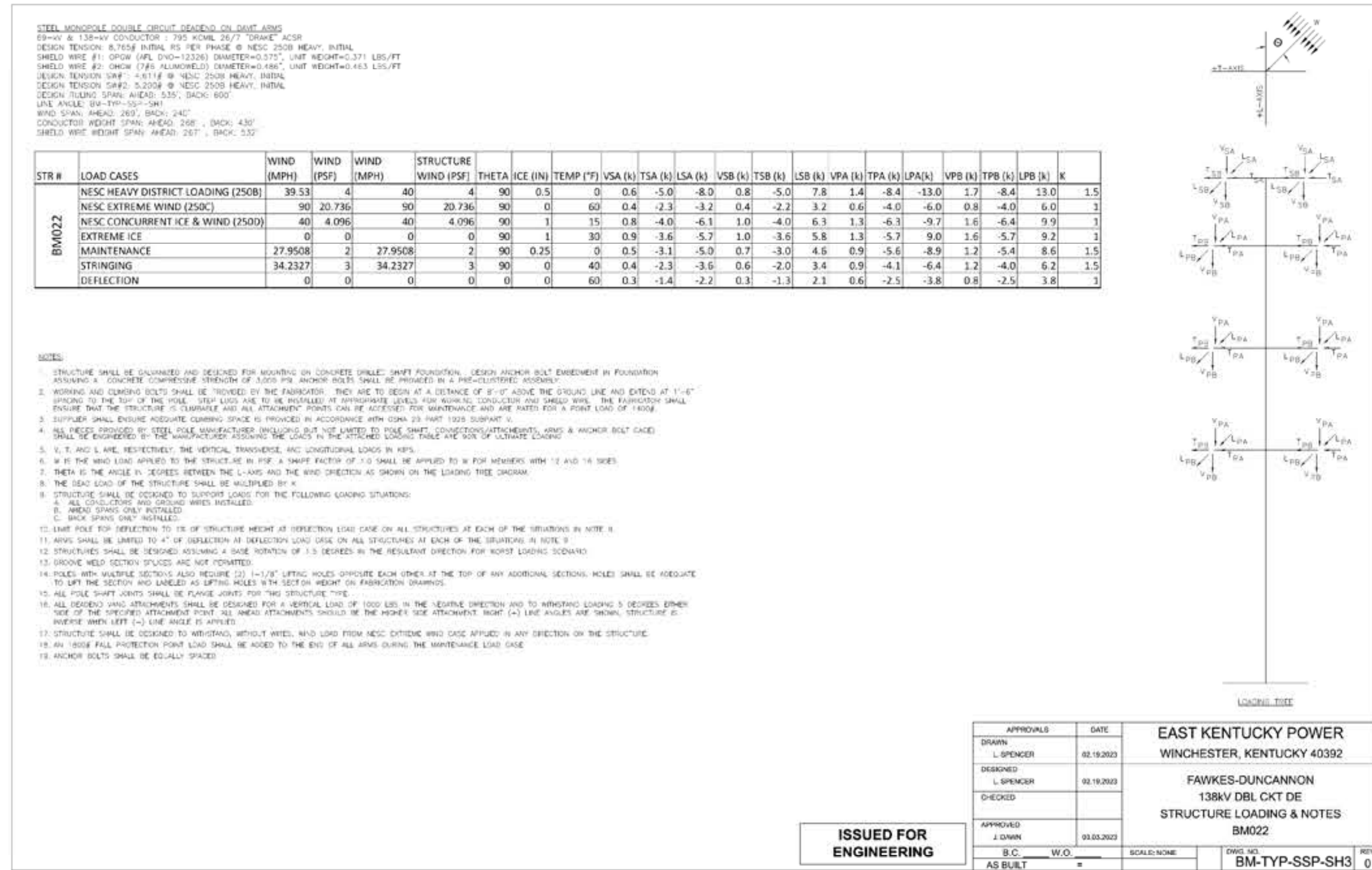
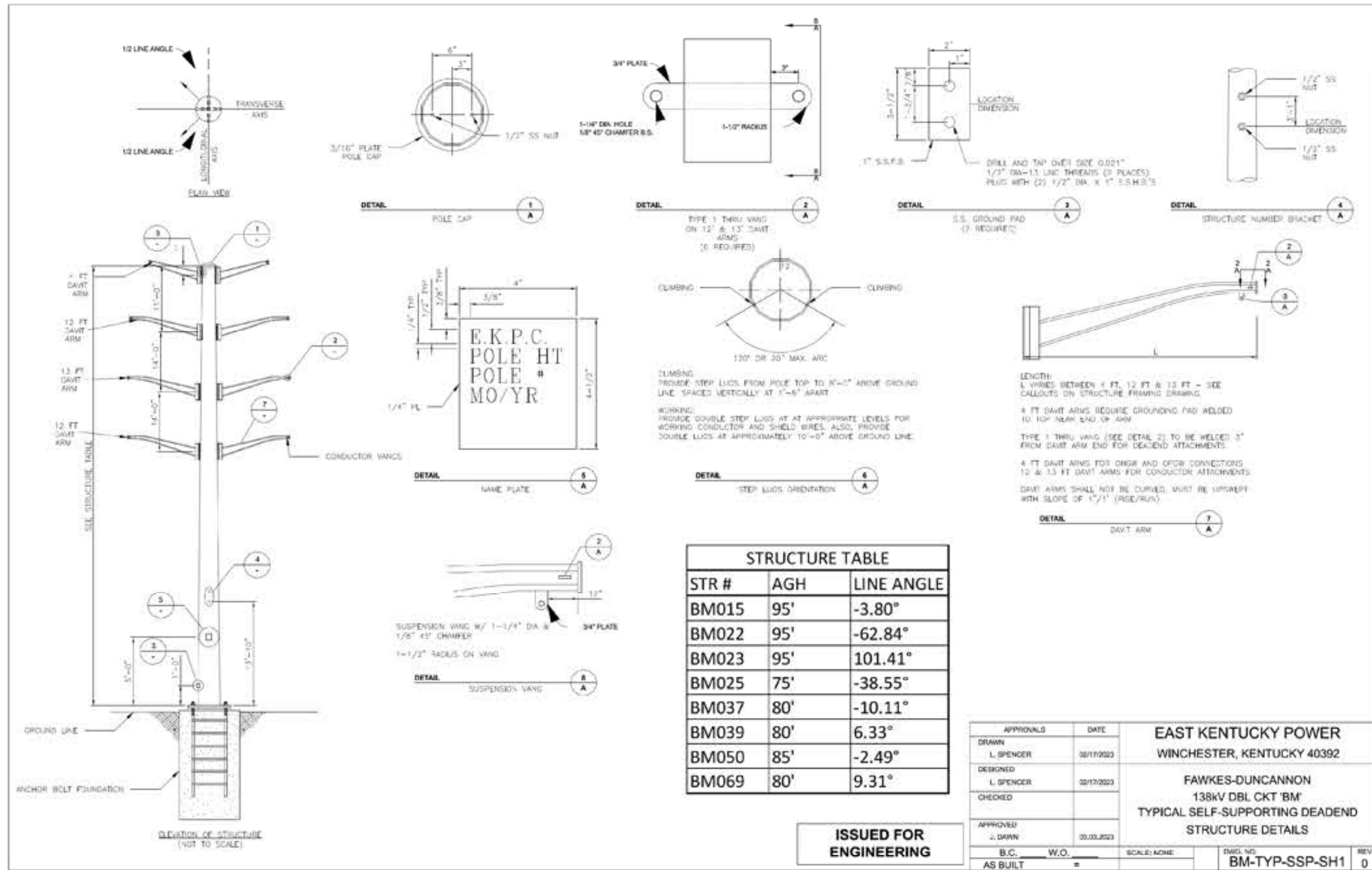
REVISIONS	DATE	DWN	APP	REVISIONS	DATE	DWN	APP
1. AS BUILT	01/12/25	LDS	LDS				

APPROVALS: LUCAS SPENCER 07/07/23
DESIGNED: LUCAS SPENCER 3/19
REVIEWED:
APPROVED: LUCAS SPENCER

EAST KENTUCKY POWER
4775 LEXINGTON RD
WINCHESTER, KY 40391
PHONE: (859) 744-4812

**FAWKES-DUNCANNON DBL CKT 69/138KV
"BM" / "ZL" ~7.4 MILES**

DWG. NO. **THD-2S**
BM-A4 REV. 1
SHEET 13 OF 18



REVISIONS	DATE	DWN	APP
1. AS BUILT	01/12/25	LDS	LDS

APPROVALS	DATE
DESIGNED	LUCAS SPENCER 07/07/23
REVIEWED	
APPROVED	LUCAS SPENCER

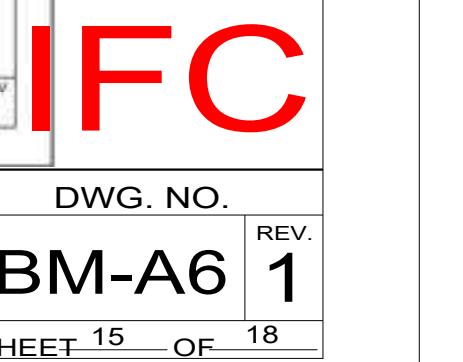
4775 LEXINGTON RD
WINCHESTER, KY 40391
PHONE: (859) 744-4812

ISSUED FOR ENGINEERING

FAWKES-DUNCANNON DBL CKT 69/138KV
"BM" / "ZL" ~7.4 MILES

SSP
BM022,
BM023, BM025

DWG. NO.
REV. 1
BM-A6
SHEET 15 OF 18



STR #	AGH	LINE ANGLE
BM015	95'	-3.80°
BM022	95'	-62.84°
BM023	95'	101.41°
BM025	75'	-38.55°
BM037	80'	-10.11°
BM039	80'	6.33°
BM050	85'	-2.49°
BM069	80'	9.31°

STEEL MONOPHASE DOUBLE CIRCUIT DEADEND ON DUAL ARMS

DESIGN TENSION: 8.75K INTRA PHASE PER PHASE @ NESC 2500 HEAVY, INITIAL
 SHIELD WIRE #1: OPGW (AFL DYN=12200) DIAMETER=0.5717" LIMIT WEIGHT=43.1 LB/FT
 SHIELD WIRE #2: OPGW (AFL DYN=12200) DIAMETER=0.5717" LIMIT WEIGHT=43.1 LB/FT
 DESIGN TENSION SWF: 4.5114 @ NESC 2500 HEAVY, INITIAL
 DESIGN TENSION SWL: 5.2008 @ NESC 2500 HEAVY, INITIAL
 DESIGN TENSION SWL: 4.5114 @ NESC 2500 HEAVY, INITIAL
 LINE ANGLE: BM-TYP-SSP-SH1
 WIND SPAN: AHEAD: 310', BACK: 207'
 CONDUCTOR WEIGHT SPAN AHEAD: 435', BACK: 176'
 SHIELD WIRE WEIGHT SPAN AHEAD: 633', BACK: 190'

STR #	LOAD CASES	WIND (MPH)	WIND (PSF)	WIND (MPH)	STRUCTURE WIND (PSF)	THETA (ICE (IN))	TEMP (°F)	VSA (k)	TSA (k)	LSA (k)	VSB (k)	TSB (k)	LSB (k)	VPA (k)	TPA (k)	LPA (k)	VPB (k)	TBP (k)	LPB (k)	K	
BM037	NESC HEAVY DISTRICT LOADING (2500)	39.53	4	40	4	90	0.5	0	1.2	-1.4	-8.7	0.6	-5.3	8.8	2.5	-2.1	-34.5	1.1	-2.0	34.3	1.5
	NESC EXTREME WIND (2500)	90	20.736	90	20.736	90	0	60	0.6	-0.8	-3.5	0.5	-0.8	3.8	1.3	-3.4	-6.6	0.6	-1.2	6.6	1
	NESC CONCURRENT ICE & WIND (2500)	40	4.096	40	4.096	90	1	15	1.5	-1.1	-7.4	0.7	-1.0	6.8	2.5	-1.6	-11.4	1.1	-1.6	10.6	1
	EXTREME ICE	0	0	0	0	90	1	30	1.5	-0.8	-6.9	-0.8	-0.7	6.3	2.5	-1.2	-11.0	1.1	-1.2	10.3	1
	MAINTENANCE	27.9508	2	27.9508	2	90	0.25	0	0.9	-0.7	-5.0	0.4	-0.8	6.1	2.0	-1.4	-9.8	0.8	-1.4	10.8	1.5
	STRINGING	34.2327	3	34.2327	3	90	0	0	40	0.9	-0.6	-3.5	0.4	-0.6	4.5	1.8	-1.0	-7.1	0.8	-1.1	7.9
DEFLECTION	0	0	0	0	0	0	0	60	0.5	-0.4	-2.3	0.3	-0.4	2.8	1.1	-0.7	-4.4	0.6	-0.7	4.8	1

STEEL MONOPHASE DOUBLE CIRCUIT DEADEND ON DUAL ARMS

DESIGN TENSION: 8.75K INTRA PHASE PER PHASE @ NESC 2500 HEAVY, INITIAL
 SHIELD WIRE #1: OPGW (AFL DYN=12200) DIAMETER=0.5717" LIMIT WEIGHT=43.1 LB/FT
 SHIELD WIRE #2: OPGW (AFL DYN=12200) DIAMETER=0.5717" LIMIT WEIGHT=43.1 LB/FT
 DESIGN TENSION SWF: 4.5114 @ NESC 2500 HEAVY, INITIAL
 DESIGN TENSION SWL: 5.2008 @ NESC 2500 HEAVY, INITIAL
 DESIGN TENSION SWL: 4.5114 @ NESC 2500 HEAVY, INITIAL
 LINE ANGLE: BM-TYP-SSP-SH1
 WIND SPAN: AHEAD: 308', BACK: 207'
 CONDUCTOR WEIGHT SPAN AHEAD: 435', BACK: 176'
 SHIELD WIRE WEIGHT SPAN AHEAD: 621', BACK: 190'

STR #	LOAD CASES	WIND (MPH)	WIND (PSF)	WIND (MPH)	STRUCTURE WIND (PSF)	THETA (ICE (IN))	TEMP (°F)	VSA (k)	TSA (k)	LSA (k)	VSB (k)	TSB (k)	LSB (k)	VPA (k)	TPA (k)	LPA (k)	VPB (k)	TBP (k)	LPB (k)	K	
BM039	NESC HEAVY DISTRICT LOADING (2500)	39.53	4	40	4	90	0.5	0	1.0	-1.2	-8.8	0.9	-1.2	8.8	1.9	-1.4	-14.5	1.8	-1.8	14.5	1.5
	NESC EXTREME WIND (2500)	90	20.736	90	20.736	90	0	60	0.5	0.7	-3.4	0.5	0.7	3.5	1.0	-1.2	-6.5	0.9	-1.2	6.5	1
	NESC CONCURRENT ICE & WIND (2500)	40	4.096	40	4.096	90	1	15	1.3	1.0	-7.6	1.3	1.0	7.2	2.0	1.3	-11.9	1.9	1.3	11.5	1
	EXTREME ICE	0	0	0	0	90	1	30	1.2	0.7	-7.1	1.2	0.7	6.5	2.0	0.9	-11.5	1.9	0.9	11.0	1
	MAINTENANCE	27.9508	2	27.9508	2	90	0.25	0	0.7	0.6	-4.6	0.7	0.6	5.1	1.5	0.9	-9.3	1.3	0.9	9.7	1.5
	STRINGING	34.2327	3	34.2327	3	90	0	0	40	0.7	0.5	-3.1	0.6	0.5	3.5	1.4	0.8	-6.6	1.4	0.8	7.0
DEFLECTION	0	0	0	0	0	0	0	60	0.3	0.3	-2.0	0.3	0.3	2.4	1.0	0.6	-4.2	1.0	0.6	4.4	1

STEEL MONOPHASE DOUBLE CIRCUIT DEADEND ON DUAL ARMS

DESIGN TENSION: 8.75K INTRA PHASE PER PHASE @ NESC 2500 HEAVY, INITIAL
 SHIELD WIRE #1: OPGW (AFL DYN=12200) DIAMETER=0.5717" LIMIT WEIGHT=43.1 LB/FT
 SHIELD WIRE #2: OPGW (AFL DYN=12200) DIAMETER=0.5717" LIMIT WEIGHT=43.1 LB/FT
 DESIGN TENSION SWF: 4.5114 @ NESC 2500 HEAVY, INITIAL
 DESIGN TENSION SWL: 5.2008 @ NESC 2500 HEAVY, INITIAL
 DESIGN TENSION SWL: 4.5114 @ NESC 2500 HEAVY, INITIAL
 LINE ANGLE: BM-TYP-SSP-SH1
 WIND SPAN: AHEAD: 299', BACK: 180'
 CONDUCTOR WEIGHT SPAN AHEAD: 435', BACK: 140'
 SHIELD WIRE WEIGHT SPAN AHEAD: 621', BACK: 140'

STR #	LOAD CASES	WIND (MPH)	WIND (PSF)	WIND (MPH)	STRUCTURE WIND (PSF)	THETA (ICE (IN))	TEMP (°F)	VSA (k)	TSA (k)	LSA (k)	VSB (k)	TSB (k)	LSB (k)	VPA (k)	TPA (k)	LPA (k)	VPB (k)	TBP (k)	LPB (k)	K	
BM050	NESC HEAVY DISTRICT LOADING (2500)	39.53	4	40	4	90	0.5	0	0.8	-0.8	-8.7	0.9	-1.1	8.7	1.8	-1.1	-14.5	2.0	-1.5	14.5	1.5
	NESC EXTREME WIND (2500)	90	20.736	90	20.736	90	0	60	0.5	-0.6	-3.5	0.5	-0.7	3.4	1.0	-0.9	-6.5	1.0	-1.2	6.5	1
	NESC CONCURRENT ICE & WIND (2500)	40	4.096	40	4.096	90	1	15	1.1	-0.8	-7.3	1.3	-0.9	7.6	1.9	-0.8	-11.3	2.1	-1.0	11.9	1
	EXTREME ICE	0	0	0	0	90	1	30	1.0	-0.4	-6.8	1.3	-0.4	7.1	1.8	-0.5	-10.8	2.1	-0.5	11.4	1
	MAINTENANCE	27.9508	2	27.9508	2	90	0.25	0	0.7	0.5	-5.3	0.7	0.5	4.6	1.5	-0.6	-9.9	1.5	-0.6	9.4	1.5
	STRINGING	34.2327	3	34.2327	3	90	0	0	40	0.5	-0.4	-3.6	0.5	-0.4	3.1	1.4	-0.6	-7.1	1.4	-0.6	6.7
DEFLECTION	0	0	0	0	0	0	0	60	0.4	-0.3	-2.3	0.4	-0.3	2.0	0.9	-0.3	-4.4	0.9	-0.3	4.2	1

APPROVALS: EAST KENTUCKY POWER WINCHESTER, KENTUCKY 40392

DESIGNED: LUCAS SPENCER 07/07/23

REVIEWED: LUCAS SPENCER

APPROVED: LUCAS SPENCER

ISSUED FOR ENGINEERING

ISSUED FOR ENGINEERING

ISSUED FOR ENGINEERING

ISSUED FOR ENGINEERING

IFC

SSP BM037, BM039, BM050

FWAKES-DUNCANNON DBL CKT 69/138KV 'BM'/'ZL' ~7.4 MILES

4775 LEXINGTON RD WINCHESTER, KY 40391 PHONE: (859) 744-4812

DWG. NO. REV. 1

SHEET 16 OF 18

IFC

REVISIONS				REVISIONS				APPROVALS		DATE
NO.	DATE	DWN	APP	NO.	DATE	DWN	APP	DESIGNED	DATE	
								LUCAS SPENCER	07/07/23	
								LUCAS SPENCER		



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 WINCHESTER, KY 40391
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FAWKES-DUNCANNON DBL CKT 69/138KV
BM / ZL ~7.4 MILES

DWG. NO.	REV.
	1
SHEET 18 OF 18	