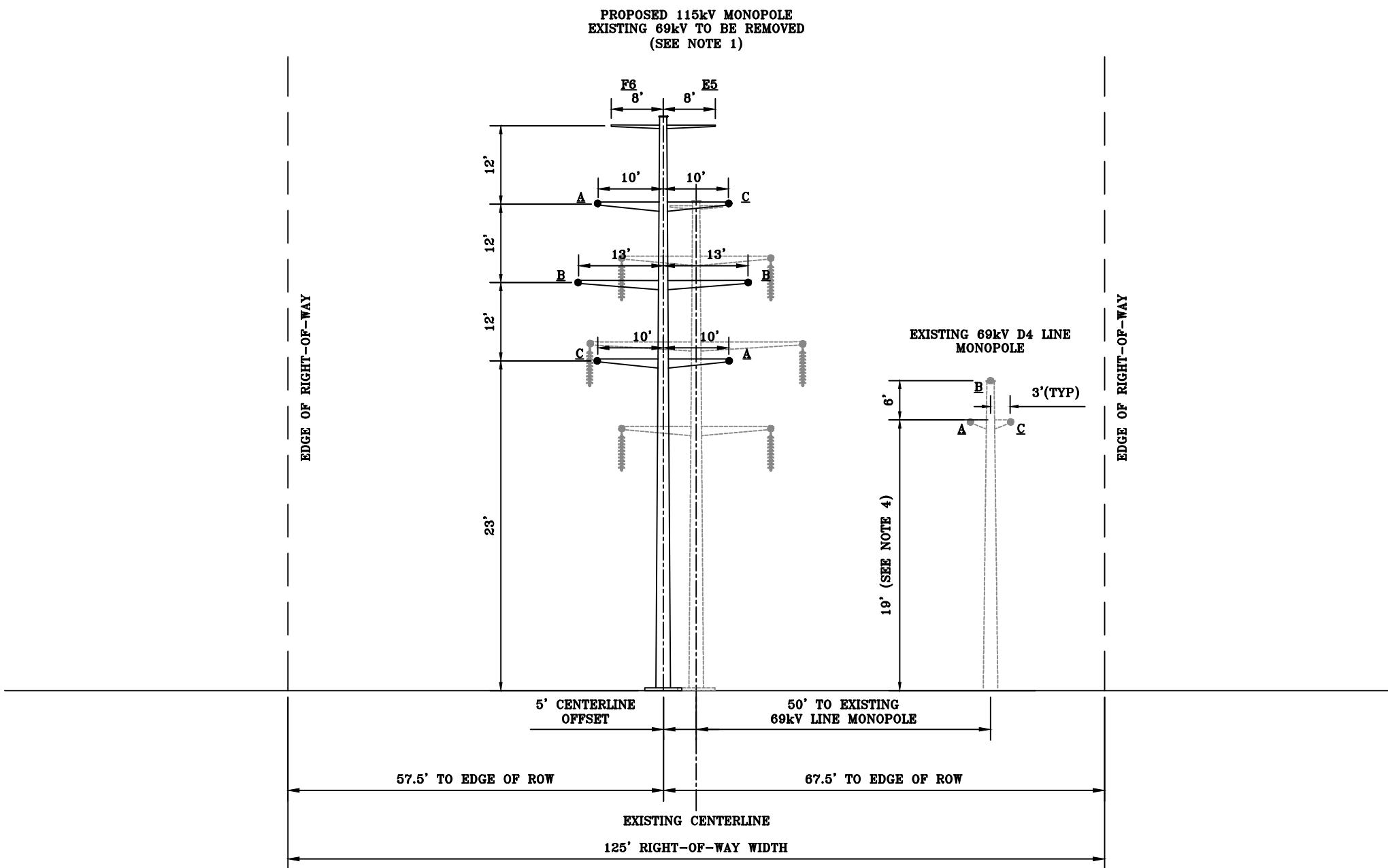


B-13148-NE

REVISIONS

ORIGINAL	DESCRIPTION			MADE	CHECKED	INSPECTED	APPROVED	APPROVED
	DATE	REV.	DATE					
DESIGNED	AM	1	11/03/23	ISSUED WITH EMF BID PACKAGE				
CHECKED	AW	2						
DRAWN	EAF	3						
CHECKED	EAF	4						
REVIEWED		5						
APPROVED	LMD	6						



CROSS SECTION 1
LOOKING AHEAD ON LINE TOWARDS DEERFIELD #4 SUB
SEE EMF OVERVIEW MAP FOR STRUCTURE LOCATIONS

NOTES:

1. PROPOSED E5/F6 LINES SHALL BE OPERATED AT 69kV BUT DESIGNED TO ACCOMMODATE 115kV. EMF ANALYSIS REQUIRED AT BOTH 69kV AND 115kV VOLTAGES.
2. SEE TABLES IN APPENDIX FOR EXISTING STRUCTURE GEOMETRY.
3. PHASE SPACING FROM CIRCUIT TO CIRCUIT MAY SLIGHTLY VARY FROM DIMENSIONS SHOWN DEPENDING ON PROPOSED POLE DIAMETERS, WHICH HAVE NOT YET BEEN DETERMINED.
4. THE WIRE SAG UNDER MAXIMUM OPERATING CONDITIONS FOR THE D4 LINE IS UNKNOWN, BUT IS ASSUMED AS CURRENT NESC CODE MINIMUM GROUND CLEARANCE FOR 69kV FOR LAND TRAVESED BY VEHICLES.

NOT FOR CONSTRUCTION

nationalgrid

E5/F6 LINE REBUILD & UPGRADE
MILLBURY SUB TO DEERFIELD #4 SUB
69kV TRANSMISSION LINE
EMF CROSS SECTION DRAWINGS

SCALE: NTS REV: 1 SHEET 1 OF 8 DATE: 11/03/23

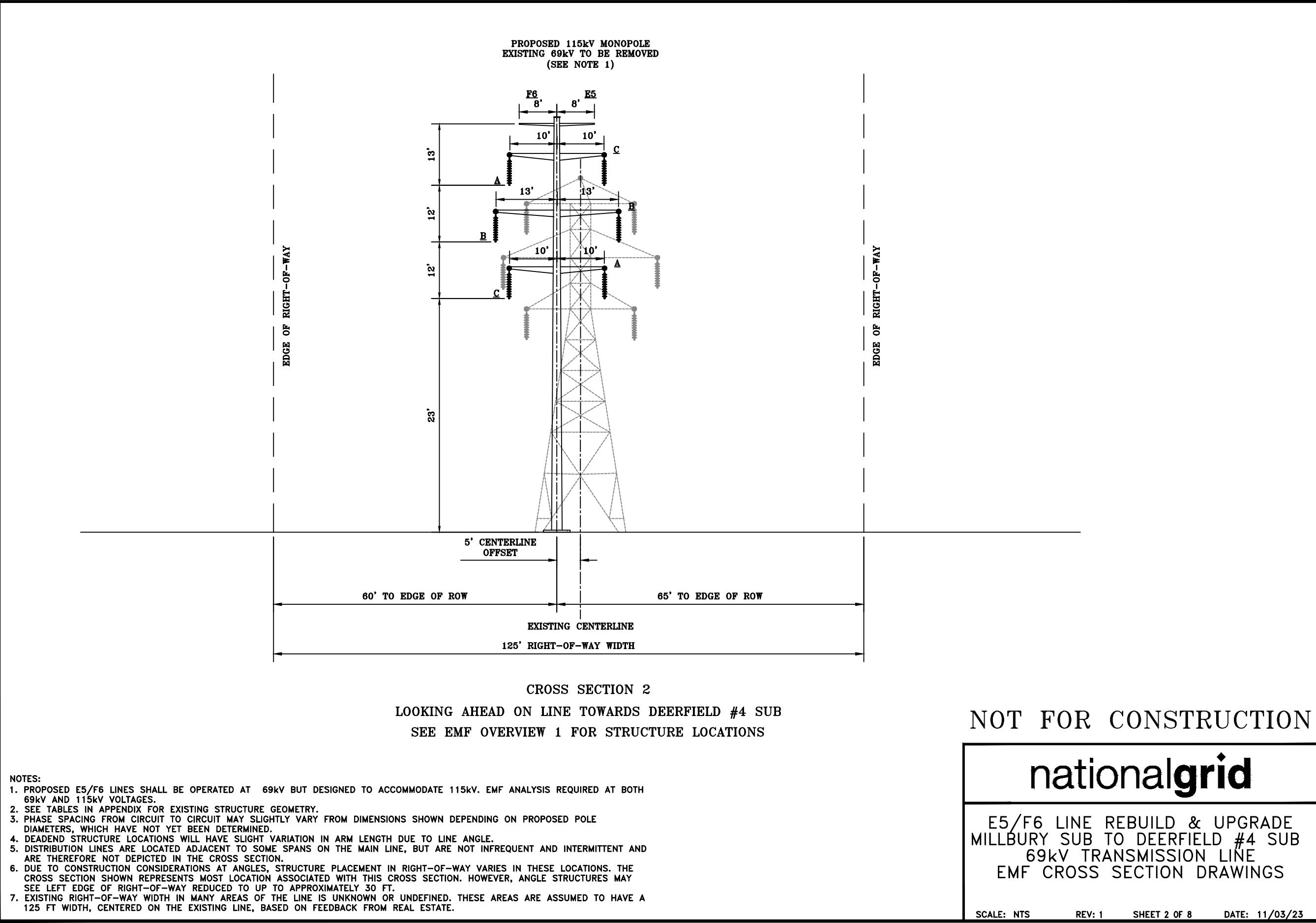
INCHES ON ORIGINAL

B-13148-NE

B-13148-NE

REVISIONS

ORIGINAL	DESCRIPTION			MADE	CHECKED	INSPECTED	APPROVED	APPROVED
	DATE	REV.	DATE					
DESIGNED	11/03/23	1	11/03/23	ISSUED WITH EMF BID PACKAGE				
CHECKED		2						
DRAWN		3						
CHECKED		4						
REVIEWED		5						
APPROVED		6						

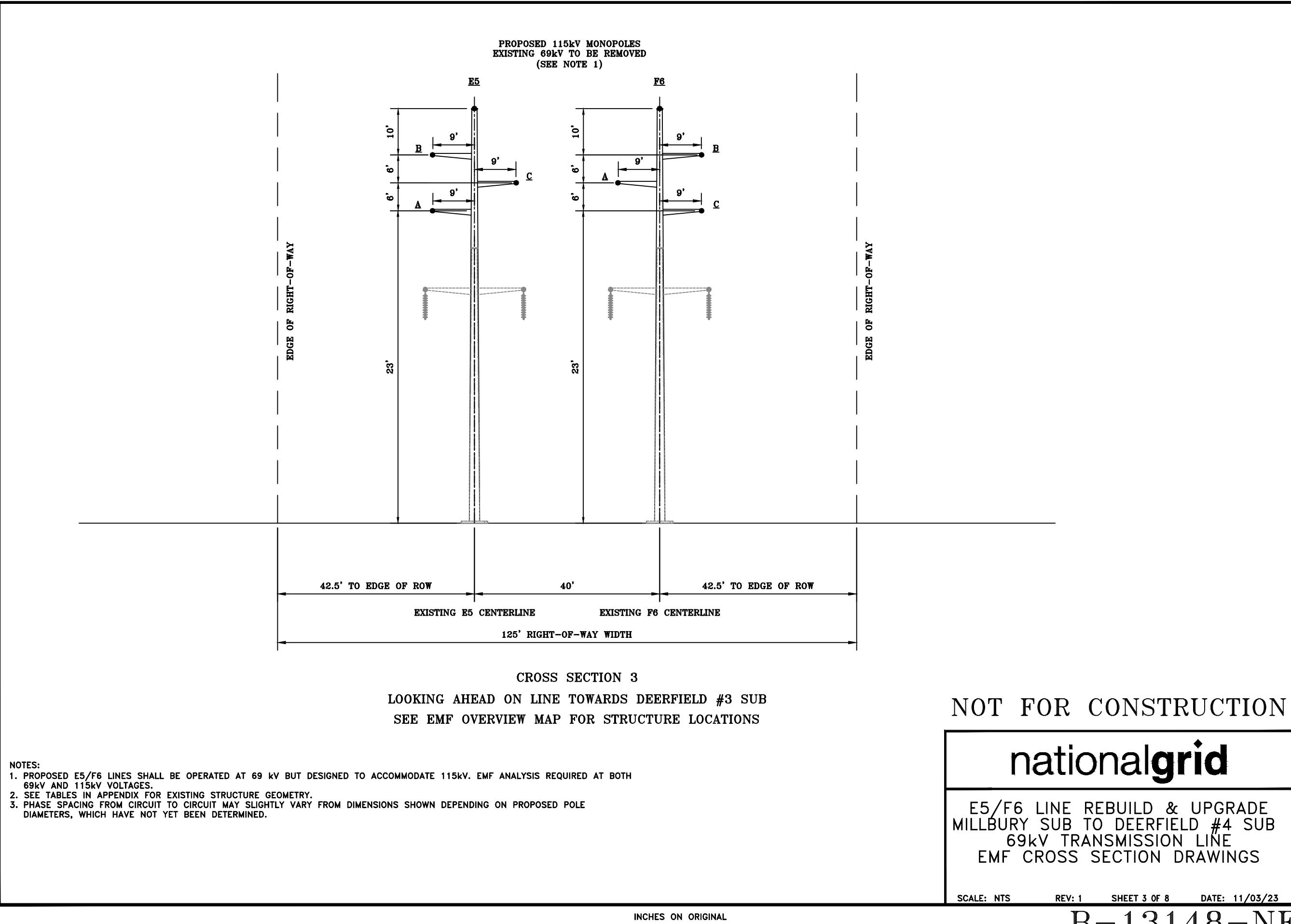


B-13148-NE

B-13148-NE

REVISIONS

ORIGINAL	DATE	REV.	DATE	DESCRIPTION	MADE	CHECKED	INSPECTED	APPROVED	APPROVED
DESIGNED	AM	1	11/03/23	ISSUED WITH EMF BID PACKAGE	AM	AW			LMD
CHECKED	AW	2							
DRAWN	EAF	3							
CHECKED	EAF	4							
REVIEWED		5							
APPROVED	LMD	6							

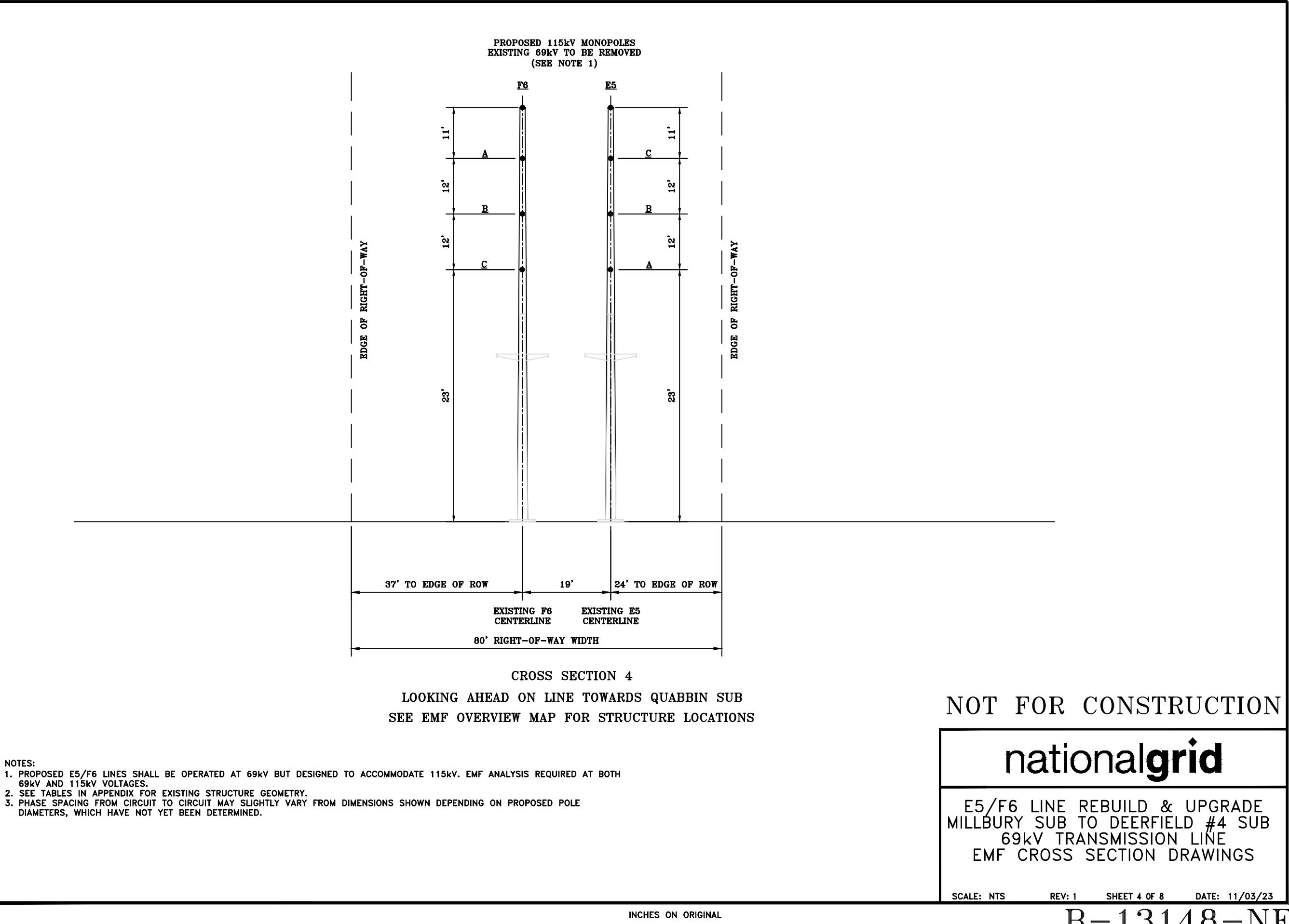


B-13148-NE

B-13148-NE

REVISIONS

ORIGINAL	DATE	REV.	DATE	DESCRIPTION	MADE	CHECKED	INSPECTED	APPROVED	APPROVED
DESIGNED	11/03/23	1	11/03/23	ISSUED WITH EMF BID PACKAGE	AM	AW			LMD
CHECKED		2							
DRAWN		3							
CHECKED		4							
REVIEWED		5							
APPROVED		6							



B-13148-NE

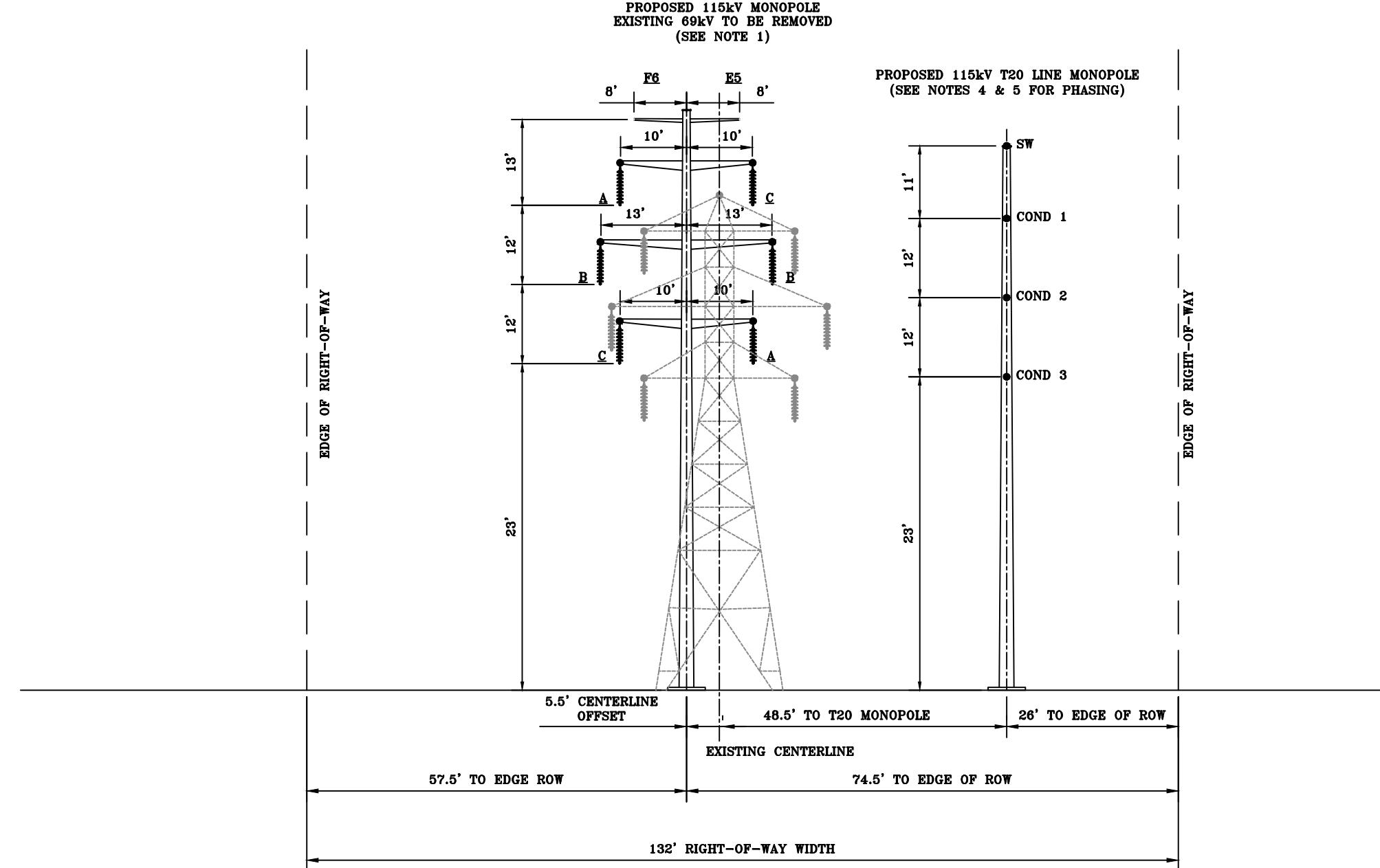
REVISIONS

NOT

1. PROPOSED E5/F6 LINES SHALL BE OPERATED AT 69KV BUT DESIGNED TO ACCOMMODATE 115KV. EMF ANALYSIS REQUIRED AT BOTH 69KV AND 115KV VOLTAGES.
2. SEE TABLES IN APPENDIX FOR EXISTING STRUCTURE GEOMETRY.
3. PHASE SPACING FROM CIRCUIT TO CIRCUIT MAY SLIGHTLY VARY FROM DIMENSIONS SHOWN DEPENDING ON PROPOSED POLE DIAMETERS, WHICH HAVE NOT YET BEEN DETERMINED.
4. THE T20 LINE WILL OPERATE AT 69KV BUT DESIGNED TO ACCOMMODATE 115KV. EMF ANALYSIS SHOULD ASSUME 115KV OPERATION. PHASING OF THIS LINE IS UNKNOWN. FOR THE PURPOSE OF THE ANALYSIS, THE PHASING CONFIGURATION WHICH GENERATES THE LARGEST EMF SHALL BE CONSIDERED.
5. T20 STRUCTURE FRAMING AND CENTERLINE DETAILS ARE PRELIMINARY.

LOOKING AHEAD ON LINE TOWARDS HARRINGTON SWITCHYARD
SEE EMF OVERVIEW MAP FOR STRUCTURE LOCATIONS

CROSS SECTION



NOT FOR CONSTRUCTION

nationalgrid

E5/F6 LINE REBUILD & UPGRADE
MILLBURY SUB TO DEERFIELD #4 SUB
69kV TRANSMISSION LINE
EMF CROSS SECTION DRAWINGS

SCALE: NTS REV: 1 SHEET 5 OF 8 DATE: 11/03/23

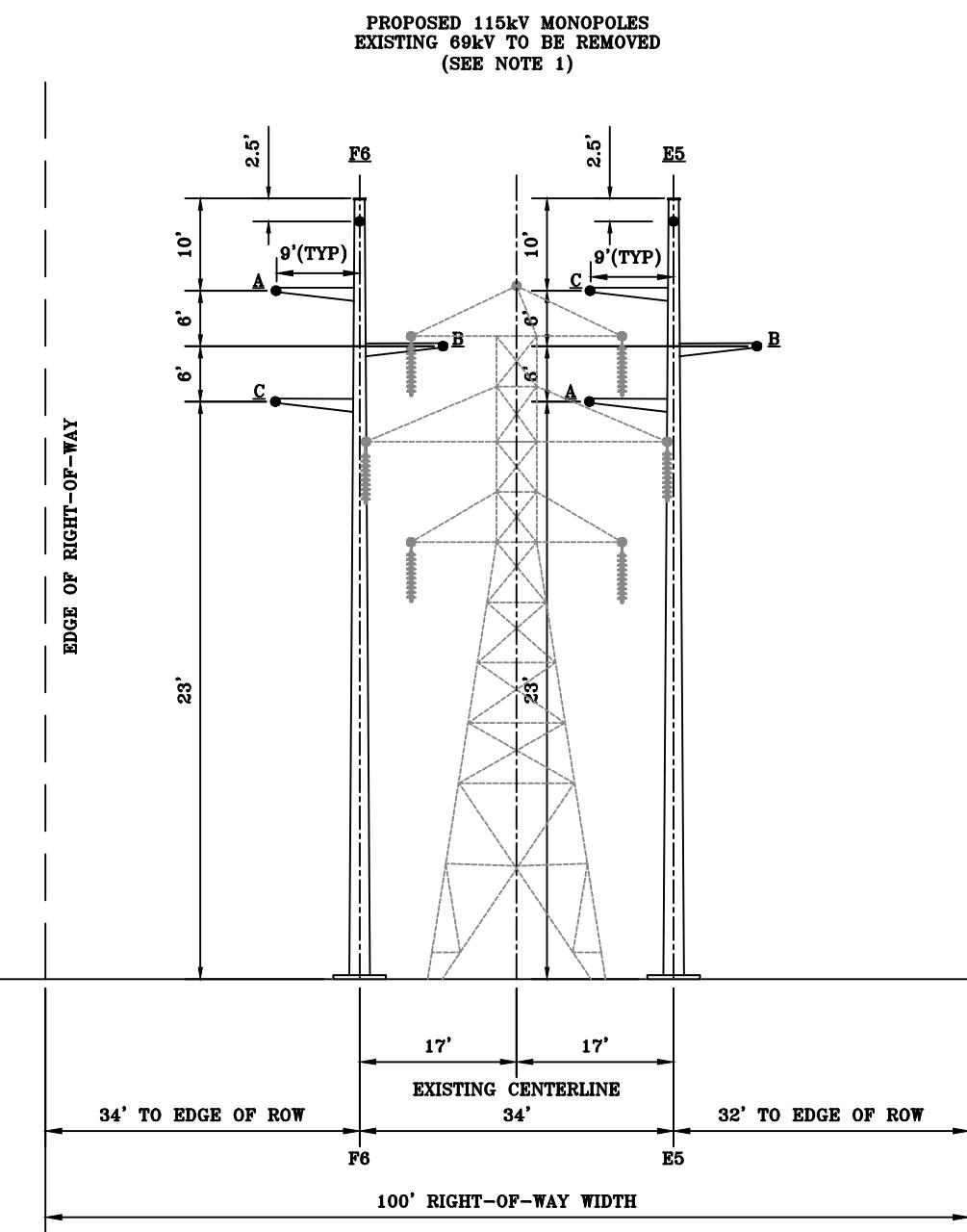
INCHES ON ORIGIN

B-13148-NE

B-13148-NE

REVISIONS

ORIGINAL	DESCRIPTION			MADE	CHECKED	INSPECTED	APPROVED	APPROVED
	DATE	REV.	DATE					
DESIGNED	AM	1	11/03/23	ISSUED WITH EMF BID PACKAGE				
CHECKED	AW	2						
DRAWN	EAF	3						
CHECKED	EAF	4						
REVIEWED		5						
APPROVED	LMD	6						



CROSS SECTION 6
LOOKING AHEAD ON LINE TOWARDS DEERFIELD #4 SUB
SEE EMF OVERVIEW MAP FOR STRUCTURE LOCATIONS

NOTES:

1. PROPOSED E5/F6 LINES SHALL BE OPERATED AT 69kV BUT DESIGNED TO ACCOMMODATE 115kV. EMF ANALYSIS REQUIRED AT BOTH 69kV AND 115kV VOLTAGES.
2. SEE TABLES IN APPENDIX FOR EXISTING STRUCTURE GEOMETRY.
3. PHASE SPACING FROM CIRCUIT TO CIRCUIT MAY SLIGHTLY VARY FROM DIMENSIONS SHOWN DEPENDING ON PROPOSED POLE DIAMETERS, WHICH HAVE NOT YET BEEN DETERMINED.

NOT FOR CONSTRUCTION

nationalgrid

E5/F6 LINE REBUILD & UPGRADE
MILLBURY SUB TO DEERFIELD #4 SUB
69kV TRANSMISSION LINE
EMF CROSS SECTION DRAWINGS

SCALE: NTS REV: 1 SHEET 6 OF 8 DATE: 11/03/23

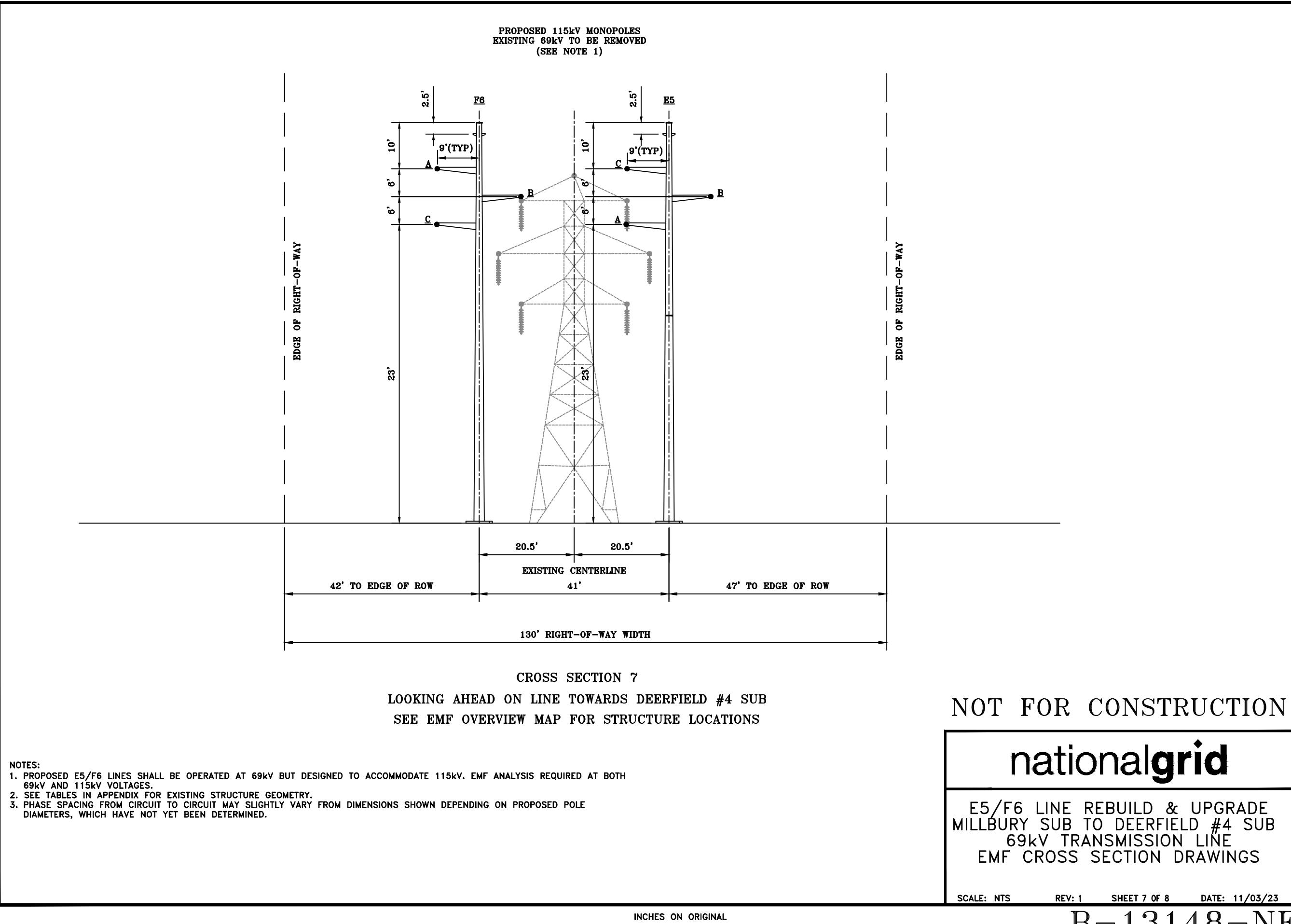
INCHES ON ORIGINAL

B-13148-NE

B-13148-NE

REVISIONS

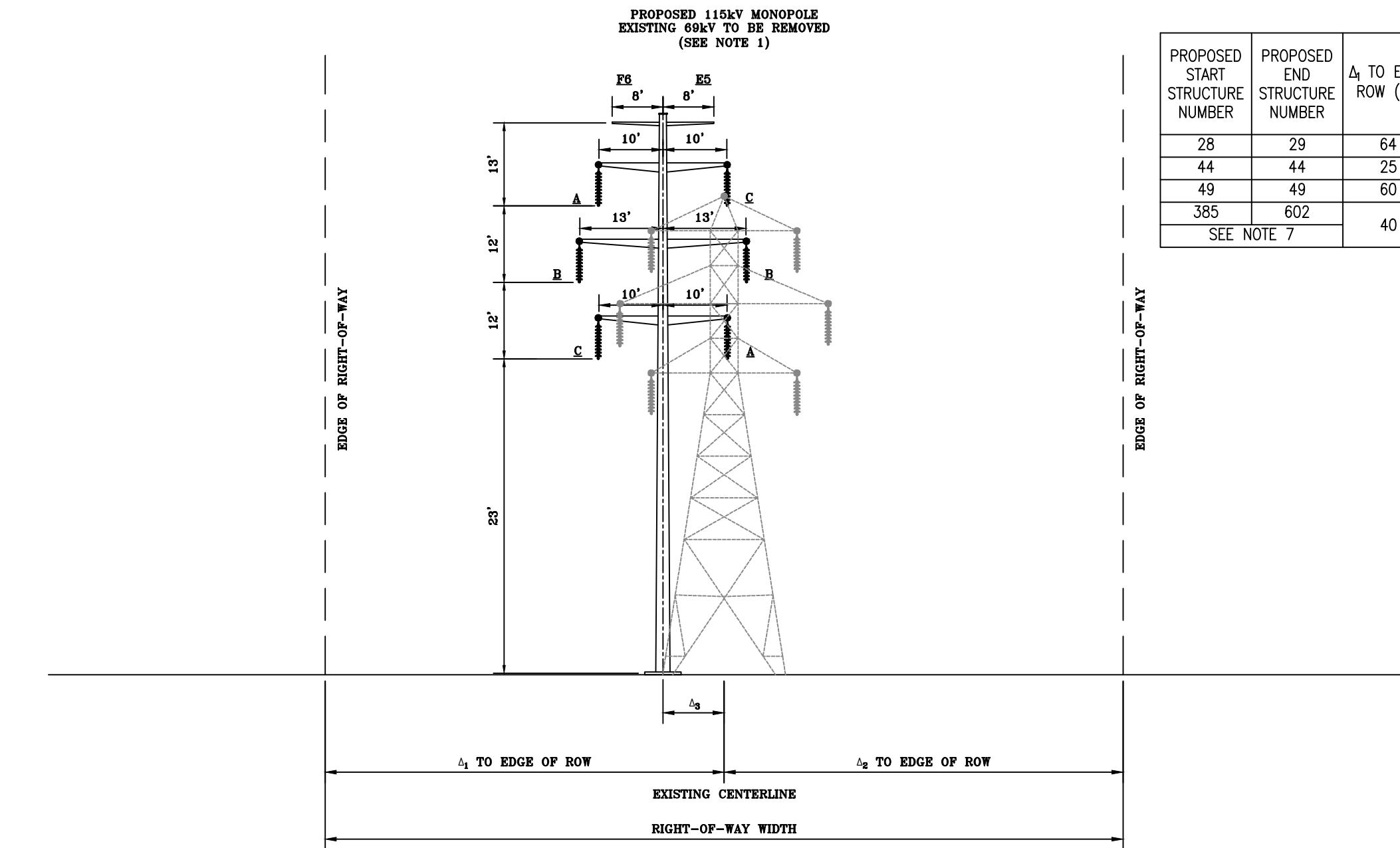
ORIGINAL	DATE	REV.	DATE	DESCRIPTION	MADE	CHECKED	INSPECTED	APPROVED	APPROVED
DESIGNED	AM	1	11/03/23	ISSUED WITH EMF BID PACKAGE	AM	AW			LMD
CHECKED	AW	2							
DRAWN	EAF	3							
CHECKED	EAF	4							
REVIEWED		5							
APPROVED	LMD	6							



B-13148-NE

REVISIONS

ORIGINAL	DESCRIPTION			MADE	CHECKED	INSPECTED	APPROVED	APPROVED
	DATE	REV.	DATE					
DESIGNED	AM	1	11/03/23	ISSUED WITH EMF BID PACKAGE				
CHECKED	AW	2						
DRAWN	EAF	3						
CHECKED		4						
REVIEWED		5						
APPROVED	LMD	6						



CROSS SECTION 8

LOOKING AHEAD ON LINE TOWARDS DEERFIELD #4 SUB
SEE EMF OVERVIEW MAP FOR STRUCTURE LOCATIONS

NOTES:

1. PROPOSED E5/F6 LINES SHALL BE OPERATED AT 69kV BUT DESIGNED TO ACCOMMODATE 115kV. EMF ANALYSIS REQUIRED AT BOTH 69kV AND 115kV VOLTAGES.
2. SEE TABLES IN APPENDIX FOR EXISTING STRUCTURE GEOMETRY.
3. PHASE SPACING FROM CIRCUIT TO CIRCUIT MAY SLIGHTLY VARY FROM DIMENSIONS SHOWN DEPENDING ON PROPOSED POLE DIAMETERS, WHICH HAVE NOT YET BEEN DETERMINED.
4. DEADEND STRUCTURE LOCATIONS WILL HAVE SLIGHT VARIATION IN ARM LENGTH DUE TO LINE ANGLE.
5. DISTRIBUTION LINES ADJACENT TO SOME SPANS ON THE MAIN LINE, BUT ARE INFREQUENT AND INTERMITTENT AND ARE THEREFORE NOT DEPICTED IN THE CROSS SECTION.
6. LOCATIONS IN TABLE ABOVE ONLY CONSIDER UNIQUE RIGHT-OF-WAY AREAS WHERE WIDTH IS LESS THAN 125 FT. WIDER EASEMENTS ARE NOT LISTED AS THE EMF AT EDGE OF RIGHT-OF-WAY WOULD BE REDUCED COMPARED TO THE SCENARIO SHOWN IN SHEET 2. REDUCED EASEMENT WIDTH SOUTHEAST OF PONDVILLE SUSTATION NOT INCLUDED DUE TO EASEMENT ACQUISITION BEING UNDERWAY.
7. 100 FT ROW OCCURS INTERMITTENTLY FROM STR.385 TO STR.602.

NOT FOR CONSTRUCTION

nationalgrid

E5/F6 LINE REBUILD & UPGRADE
MILLBURY SUB TO DEERFIELD #4 SUB
69kV TRANSMISSION LINE
EMF CROSS SECTION DRAWINGS

SCALE: NTS REV: 1 SHEET 8 OF 8 DATE: 11/03/23

INCHES ON ORIGINAL