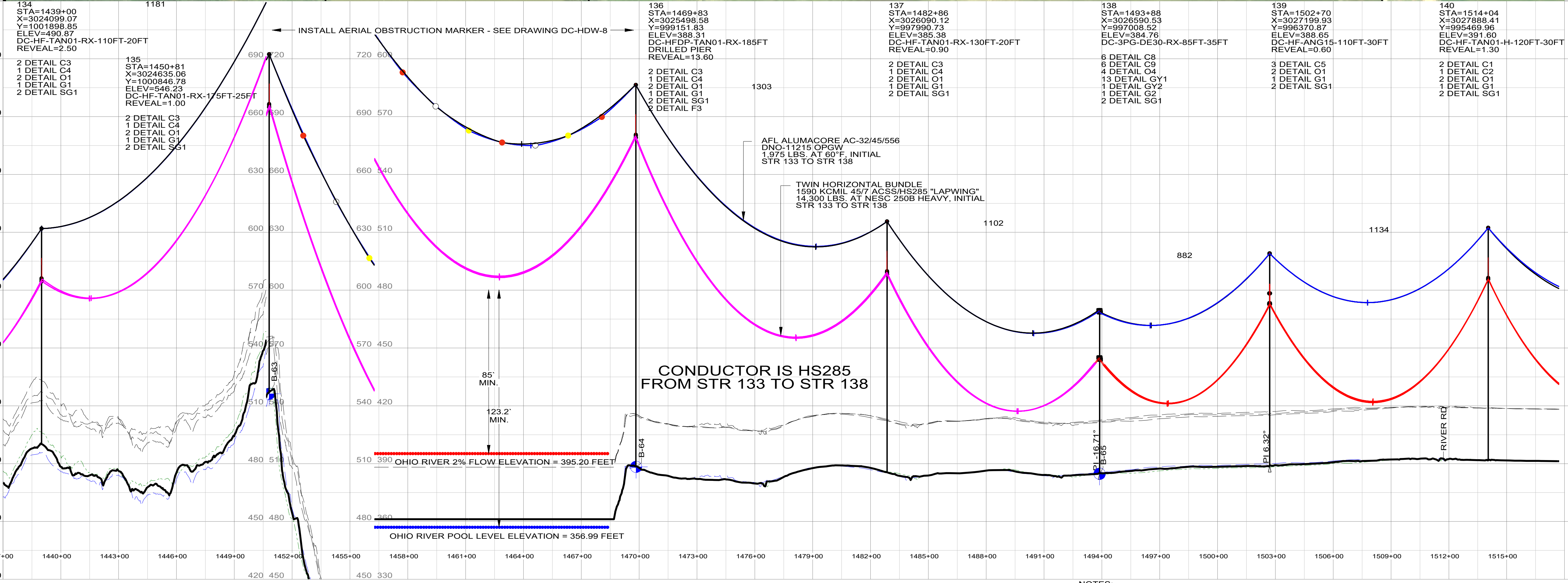
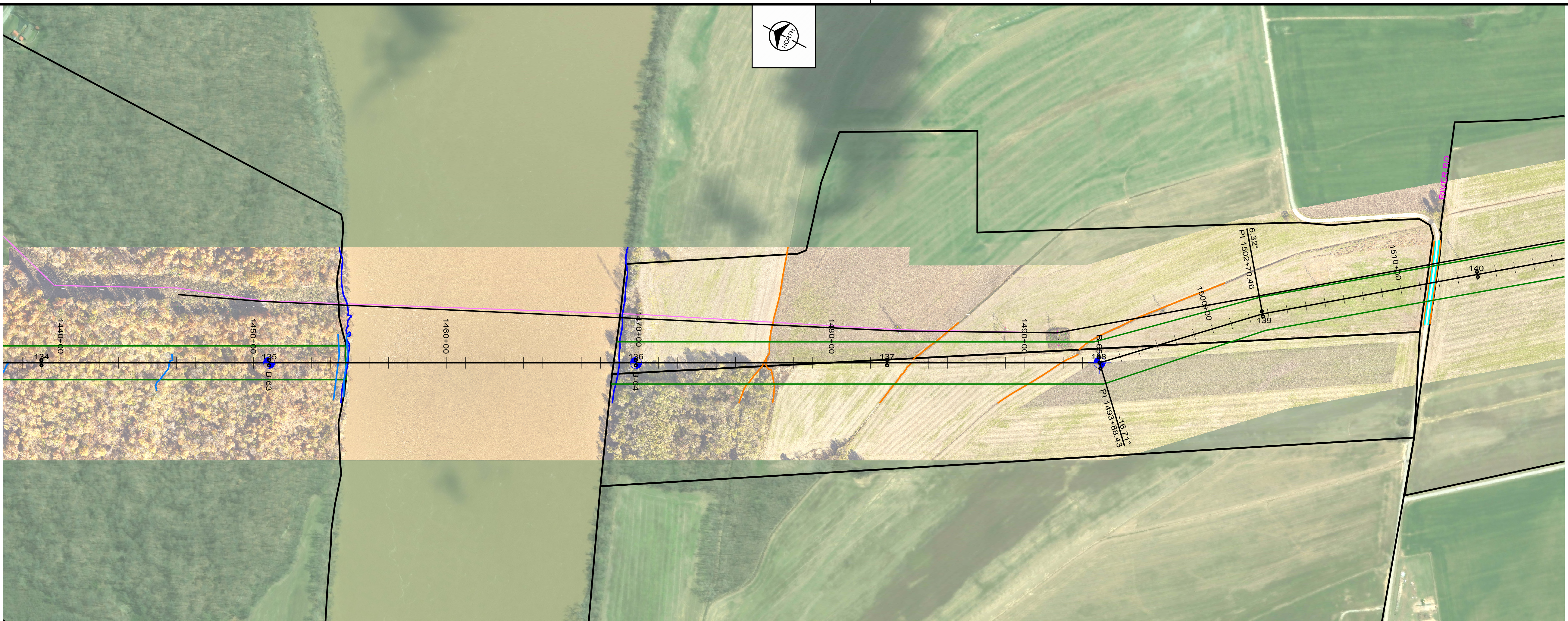


NO.	DATE	BY	CKD	DESCRIPTION
0	12/19/18	BAC	ZTW	ISSUED FOR CONSTRUCTION
1	08/05/20	MJC	ZTW	AS-BUILT



<p>300.0 FT. HORIZ. SCALE</p> <p>30.0 FT. VERT. SCALE</p> <p>30 FT. RIGHT</p> <p>30 FT. LEFT</p> <p>SOIL BORING</p>	<p>PROFILE LEGEND:</p> <p>CABLE DATA (UNLESS OTHERWISE NOTED):</p> <ul style="list-style-type: none"> OPGW: AFL ALUMACORE AC-32/45/556 DNO-11215 24-FIBER DISPLAYED: 60° F FINAL; DESIGN TENSION: 1,850 LBS (12% RBS) AT 60°F, NO ICE, NO WIND OPGW: AFL ALUMACORE AC-32/45/556 DNO-11215 24-FIBER DISPLAYED: 60° F FINAL; DESIGN TENSION: 1,850 LBS (12% RBS) AT 60°F, NO ICE, NO WIND 345KV CONDUCTOR: TWIN HORIZONTAL BUNDLE 1590 KCMIL 45/7 ACSS/HS "LAPWING" DISPLAYED: 175° C FINAL; DESIGN TENSION: 7,408 LBS (25% RBS) AT 60°F, NO ICE, NO WIND FOREIGN OVERHEAD UTILITY 	<p>PLAN LEGEND:</p> <ul style="list-style-type: none"> RIGHT-OF-WAY (TYPICALLY 175 FT. WIDE) PARCEL BOUNDARY FOREIGN OVERHEAD UTILITY POND STREAMS WETLAND BUILDING ROAD EDGE RAILROAD DITCH 	<p>NOTES:</p> <ol style="list-style-type: none"> COORDINATES IN STRUCTURE LABEL ARE X (EASTING) AND Y (NORTHING) PER INDIANA STATE PLANE NAD83, WEST ZONE 1302; U.S. SURVEY FT. STRUCTURE DESCRIPTION FORMAT IS "TYPE-ABOVE GROUND HEIGHT-EMBED" DISPLAYED CLEARANCE LINE IS 27 FT. (UNLESS OTHERWISE NOTED) (NESC REQUIREMENT AT 345KV + 2.3 FT.) FOR PHASING, SEE DRAWING DC-PHA-1 FOR CONDUCTOR HARDWARE ASSEMBLIES SEE DC-HDW-1 FOR OPGW HARDWARE ASSEMBLIES SEE DC-HDW-2 FOR GUY ASSEMBLIES SEE DC-HDW-3 FOR DAMPER ASSEMBLIES AND SCHEDULES SEE DC-HDW-4 FOR SPACER DETAIL AND SCHEDULE SEE DC-HDW-5 FOR HARDWARE ARRANGEMENTS SEE DC-HDW-6 FOR GROUNDING ASSEMBLIES SEE DC-GND-1 FOR FOUNDATION DETAILS AND SCHEDULE SEE DC-FDN-1 AND DC-FDN-2
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AS-BUILT

9400 WARD PARKWAY, KANSAS CITY, MO 64114

DATE 06/08/2018	DESIGNED B. CAMPBELL	DATE	DETAILED B. CAMPBELL
	CHECKED Z. WEISS		

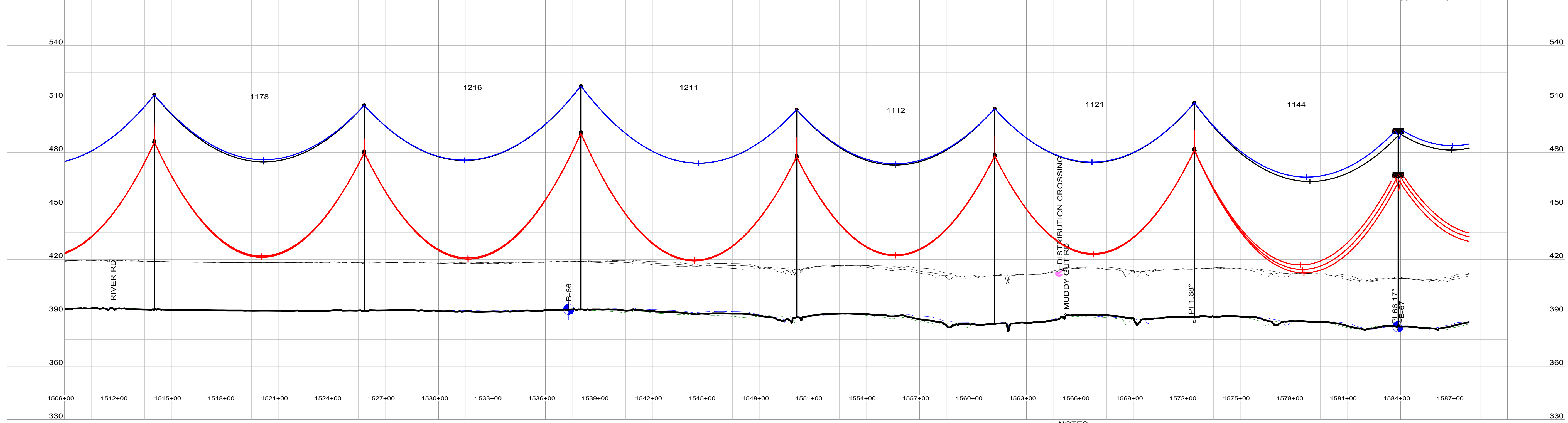
**DUFF-COLEMAN 345KV LINE
PLAN AND PROFILE**

PROJECT 102126	CONTRACT
DRAWING DC-P&P-1	REV. 1
SHEET 21	OF 23 SHEETS

NO.	DATE	BY	CKD	DESCRIPTION
0	12/19/18	BAC	ZTW	ISSUED FOR CONSTRUCTION
1	08/05/20	MJC	ZTW	AS-BUILT



Station	Coordinates (X, Y)	Elevation	DC-HF-TAN	DC-HF-ANG	Reveal	Details
140	1514+04 X=3027888.41 Y=995469.96	391.60	DC-HF-TAN01-H-120FT-30FT		1.30	2 DETAIL C1 1 DETAIL C2 2 DETAIL O1 1 DETAIL G1 2 DETAIL SG1
141	1525+82 X=3028603.76 Y=994533.89	391.03	DC-HF-TAN01-H-115FT-30FT		1.10	2 DETAIL C1 1 DETAIL C2 2 DETAIL O1 1 DETAIL G1 2 DETAIL SG1
142	1537+99 X=3029342.31 Y=993667.47	391.67	DC-HF-TAN01-H-125FT-30FT		1.30	2 DETAIL C1 1 DETAIL C2 2 DETAIL O1 1 DETAIL G1 2 DETAIL SG1
143	1550+10 X=3030077.82 Y=992605.02	386.96	DC-HF-TAN01-H-115FT-30FT		2.30	2 DETAIL C1 1 DETAIL C2 2 DETAIL O1 1 DETAIL G1 2 DETAIL SG1
144	1561+22 X=3030752.84 Y=991721.72	383.54	DC-HF-TAN01-H-120FT-30FT		1.70	2 DETAIL C1 1 DETAIL C2 2 DETAIL O1 1 DETAIL G1 2 DETAIL SG1
145	1572+43 X=3031433.66 Y=990830.83	387.50	DC-HF-ANG05-120FT-30FT		1.10	2 DETAIL C1 1 DETAIL C2 2 DETAIL O1 1 DETAIL G1 2 DETAIL SG1
146	1583+87 X=3032101.10 Y=989902.21	382.17	DC-3PG-DE90-110FT-35FT	OPGW SPLICE	0.50	6 DETAIL C7 5 DETAIL C8 16 DETAIL GY1 1 DETAIL G2 2 DETAIL SG1 4 DETAIL O3 2 DETAIL O6 38 DETAIL O7



<p>300.0 FT. — HORIZ. SCALE</p> <p>30.0 FT. — VERT. SCALE</p> <p>— 30 FT. RIGHT</p> <p>— 30 FT. LEFT</p> <p>— SOIL BORING</p>	<p>PROFILE LEGEND: CABLE DATA (UNLESS OTHERWISE NOTED):</p> <p>— OPGW: AFL ALUMACORE AC-32/45/556 DNO-11215 24-FIBER DISPLAYED: 60° F FINAL; DESIGN TENSION: 1,850 LBS (12% RBS) AT 60°F, NO ICE, NO WIND</p> <p>— OPGW: AFL ALUMACORE AC-32/45/556 DNO-11215 24-FIBER DISPLAYED: 60° F FINAL; DESIGN TENSION: 1,850 LBS (12% RBS) AT 60°F, NO ICE, NO WIND</p> <p>— 345KV CONDUCTOR: TWIN HORIZONTAL BUNDLE 1590 KCMIL 45/7 ACSS/HS "LAPWING" DISPLAYED: 175° C FINAL; DESIGN TENSION: 7,408 LBS (25% RBS) AT 60°F, NO ICE, NO WIND</p> <p>— FOREIGN OVERHEAD UTILITY</p>	<p>PLAN LEGEND:</p> <p>— RIGHT-OF-WAY (TYPICALLY 175 FT. WIDE)</p> <p>— PARCEL BOUNDARY</p> <p>— FOREIGN OVERHEAD UTILITY</p> <p>— POND</p> <p>— STREAMS</p> <p>— WETLAND</p> <p>— BUILDING</p>	<p>— ROAD EDGE</p> <p>— RAILROAD</p> <p>— DITCH</p>
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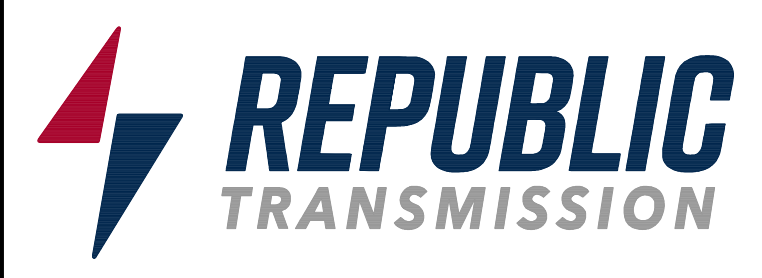
NOTES:

- COORDINATES IN STRUCTURE LABEL ARE X (EASTING) AND Y (NORTHING) PER INDIANA STATE PLANE NAD83, WEST ZONE 1302; U.S. SURVEY FT.
- STRUCTURE DESCRIPTION FORMAT IS "TYPE-ABOVE GROUND HEIGHT-EMBED"
- DISPLAYED CLEARANCE LINE IS 27 FT. (UNLESS OTHERWISE NOTED) (NESC REQUIREMENT AT 345KV + 2.3 FT.)
- FOR PHASING, SEE DRAWING DC-PHA-1
- FOR CONDUCTOR HARDWARE ASSEMBLIES SEE DC-HDW-1
FOR OPGW HARDWARE ASSEMBLIES SEE DC-HDW-2
FOR GUY ASSEMBLIES SEE DC-HDW-3
FOR DAMPER ASSEMBLIES AND SCHEDULES SEE DC-HDW-4
FOR SPACER DETAIL AND SCHEDULE SEE DC-HDW-5
FOR HARDWARE ARRANGEMENTS SEE DC-HDW-6
FOR GROUNDING ASSEMBLIES SEE DC-GND-1
FOR FOUNDATION DETAILS AND SCHEDULE SEE DC-FDN-1 AND DC-FDN-2

AS-BUILT

**BURNS
MCDONNELL**
9400 WARD PARKWAY, KANSAS CITY, MO 64114

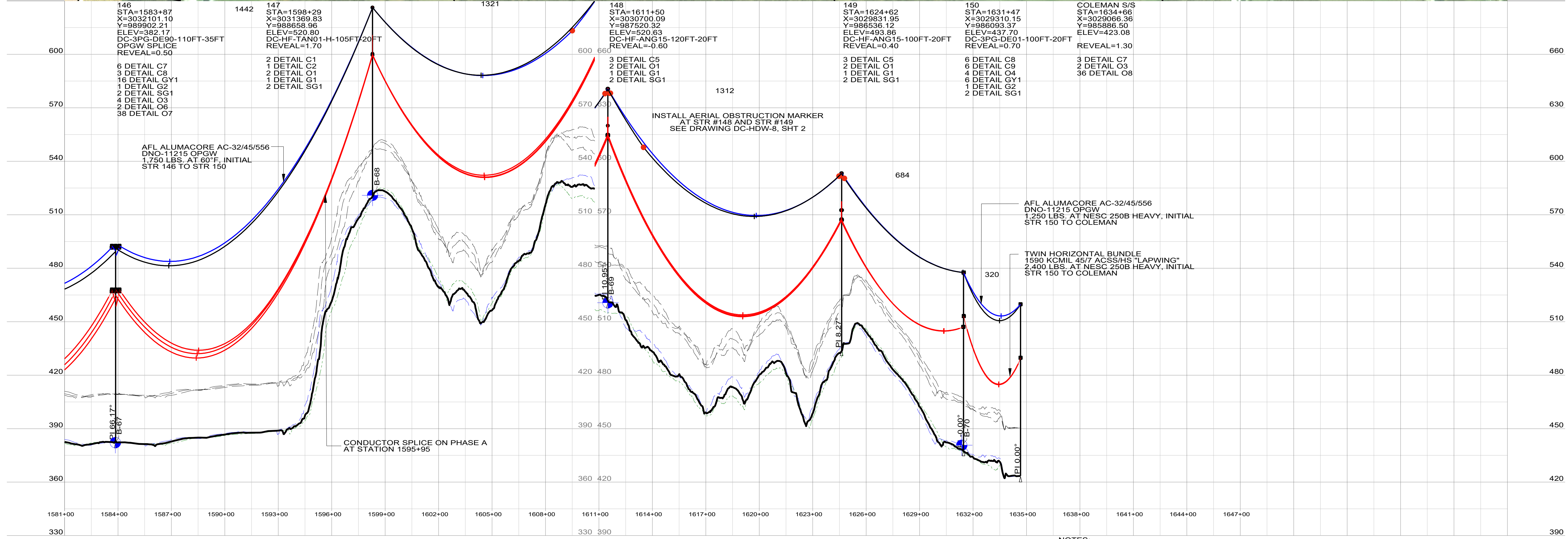
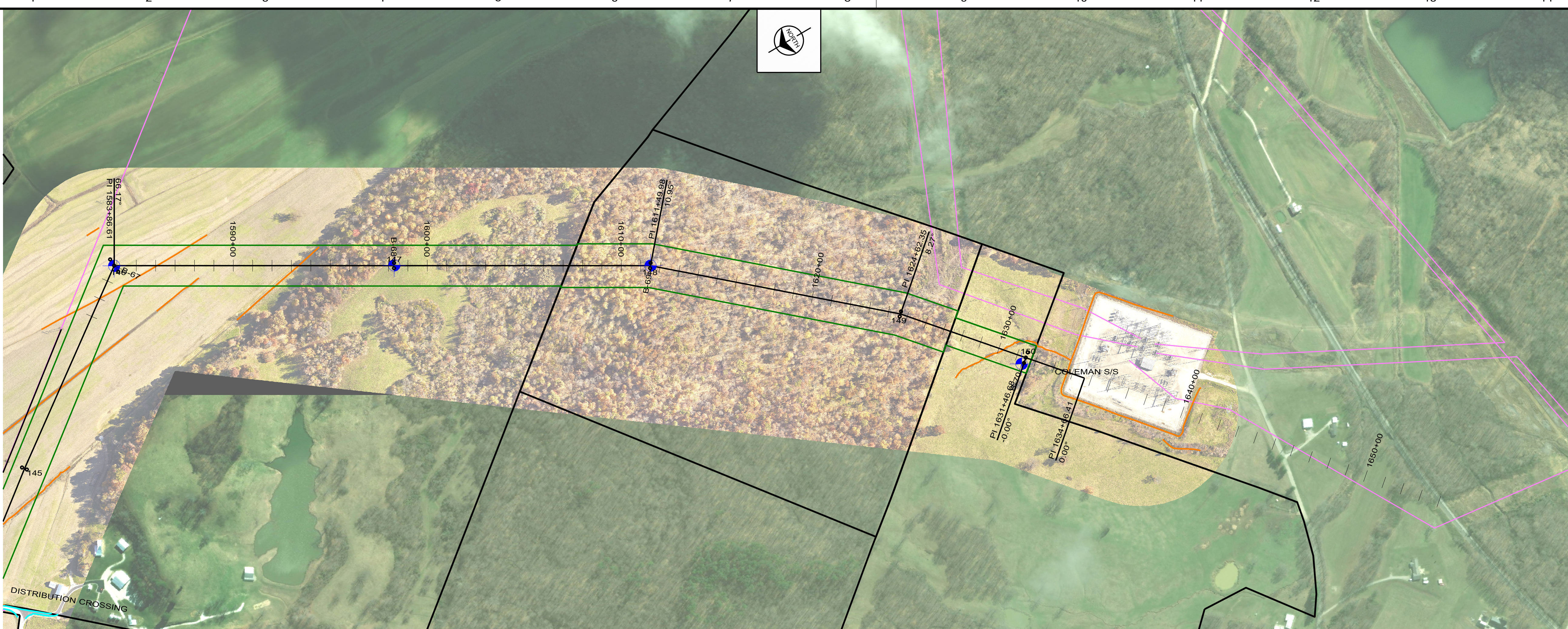
DATE 06/08/2018	DESIGNED B. CAMPBELL	DETAILED B. CAMPBELL	CHECKED Z. WEISS
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**DUFF-COLEMAN 345KV LINE
PLAN AND PROFILE**

PROJECT 102126	CONTRACT
DRAWING DC-P&P-1	REV. 1
SHEET 22	OF 23
SHEETS	

NO.	DATE	BY	CKD	DESCRIPTION
0	12/19/18	BAC	ZTW	ISSUED FOR CONSTRUCTION
1	09/19/19	BAC	ZTW	ADDED AOMS REVISE OPGW TENSION
2	08/05/20	MJC	ZTW	AS-BUILT



PROFILE LEGEND:
 CABLE DATA (UNLESS OTHERWISE NOTED):
 — OPGW: AFL ALUMACORE AC-32/45/556 DNO-11215 24-FIBER
 DISPLAYED: 60° F FINAL; DESIGN TENSION: 1,850 LBS (12% RBS) AT 60°F, NO ICE, NO WIND
 — OPGW: AFL ALUMACORE AC-32/45/556 DNO-11215 24-FIBER
 DISPLAYED: 60° F FINAL; DESIGN TENSION: 1,850 LBS (12% RBS) AT 60°F, NO ICE, NO WIND
 — 345KV CONDUCTOR: TWIN HORIZONTAL BUNDLE 1590 KCMIL 45/7 ACSS/HS "LAPWING"
 DISPLAYED: 175° C FINAL; DESIGN TENSION: 7,408 LBS (25% RBS) AT 60°F, NO ICE, NO WIND

PLAN LEGEND:
 — RIGHT-OF-WAY (TYPICALLY 175 FT. WIDE)
 — PARCEL BOUNDARY
 — FOREIGN OVERHEAD UTILITY
 — POND
 — STREAMS
 — WETLAND
 — BUILDING

ROAD LEGEND:
 — ROAD EDGE
 — RAILROAD
 — DITCH

NOTES:
 1 COORDINATES IN STRUCTURE LABEL ARE X (EASTING) AND Y (NORTHING) PER INDIANA STATE PLANE NAD83, WEST ZONE 1302; U.S. SURVEY FT.
 2 STRUCTURE DESCRIPTION FORMAT IS "TYPE-ABOVE GROUND HEIGHT-EMBED"
 3 DISPLAYED CLEARANCE LINE IS 27 FT. (UNLESS OTHERWISE NOTED) (NESC REQUIREMENT AT 345KV + 2.3 FT.)
 4 FOR PHASING, SEE DRAWING DC-PHA-1
 5 FOR CONDUCTOR HARDWARE ASSEMBLIES SEE DC-HDW-1 FOR OPGW HARDWARE ASSEMBLIES SEE DC-HDW-2 FOR GUY ASSEMBLIES SEE DC-HDW-3 FOR DAMPER ASSEMBLIES AND SCHEDULES SEE DC-HDW-4 FOR SPACER DETAIL AND SCHEDULE SEE DC-HDW-5 FOR HARDWARE ARRANGEMENTS SEE DC-HDW-6 FOR GROUNDING ASSEMBLIES SEE DC-GND-1 FOR FOUNDATION DETAILS AND SCHEDULE SEE DC-FDN-1 AND DC-FDN-2

AS-BUILT

**BURNS
MCDONNELL**
 9400 WARD PARKWAY, KANSAS CITY, MO 64114

DATE 06/08/2018	DESIGNED B. CAMPBELL	DETAILED B. CAMPBELL
DESIGNED B. CAMPBELL	CHECKED Z. WEISS	

**REPUBLIC
TRANSMISSION**

DUFF-COLEMAN 345KV LINE
 PLAN AND PROFILE

PROJECT 102126	CONTRACT
DRAWING DC-P&P-1	REV. 2
SHEET 23	OF 23 SHEETS