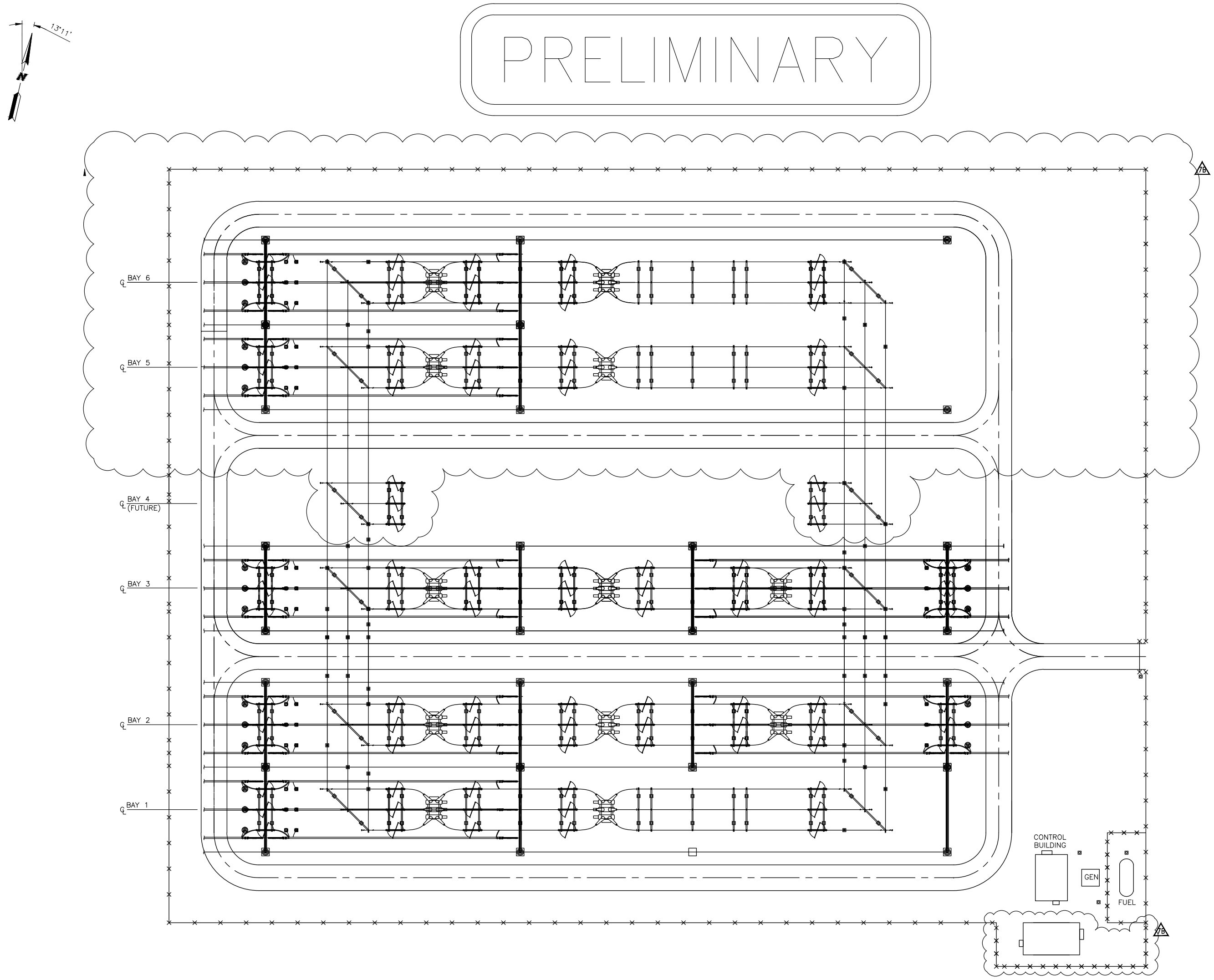
PRELIMINARY



NOTES

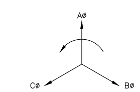
1. CONTRACTOR SHALL MEASURE AND VERIFY ALL CLEARANCES FOR COMPLIANCE WITH DESIGN PARAMETERS.
2. INSTALL AEOLIAN CABLE IN ALL BUS RUNS.
3. ALL BUS SUPPORTS SHALL BE SLIP FIT EXCEPT AT NOTED WELD LOCATIONS. REFER TO BRKT–W3E–6001 FOR WELD AND EXPANSION LOCATIONS.
4. ALL INSULATORS SHALL BE HIGH–STRENGTH TR–369 EXCEPT AS NOTED.
5. REFER TO THE BILLS OF MATERIAL, ELECTRICAL ELEVATIONS AND INSTALLATION DETAILS FOR DIMENSIONS AND USE OF STEEL SUPPORTS.
6. MAIN BUS RUNS SHALL BE 6" SPS SCHEDULE 40, AND A–FRAME TAPS SHALL BE 4" SPS SCHEDULE 40. ALL BUS SHALL BE SPS CONDUCTORS WITH 53% IACS FOR 6063–T6 ALUMINUM.

DESIGN PARAMETERS

RATED MAXIMUM VOLTAGE	362 kV
RATED CONTINUOUS CURRENT (MAIN BUS)	4000 A 5000 A
RATED CONTINUOUS CURRENT (BAYS)	3000 A 5000 A
RATED SHORT–CIRCUIT CURRENT	63 kA
BASIC IMPULSE INSULATION LEVEL (BIL)	
INSULATORS	1300 kV
BUSHINGS	1300 kV
TRANSFORMER/REACTOR WINDINGS	1175 kV
SWITCHING SURGE WITHSTAND	
TERMINAL TO GROUND (PEAK)	885 kV
TERMINAL TO TERMINAL (PEAK)	1120 kV
MINIMUM LEAKAGE DISTANCE	
INSULATORS	264 in
BUSHINGS	264 in
INSTRUMENT TRANSFORMERS	264 in
PHASE–TO–GROUND CLEARANCE	
MINIMUM	104 in
RECOMMENDED	106 in
PREFERRED	108 in
PHASE–TO–PHASE CLEARANCE (METAL–TO–METAL)	
MINIMUM	119 in
PREFERRED	132 in
PHASE SPACING	
RIGID BUS	16'–0"
VERT. AND DOUBLE END BREAK SW.	16'–0"
HOR. & CENTER BREAK SWITCHES	20'–0"
HORN GAP SW. & EXPULSION FUSES	20'–0"
TRANSMISSION LINE TAKE–OFF	22'–0"

REFERENCE DRAWINGS

BRKT–W3C–1000	OVERALL SITE PLAN
BRKT–W3C–1100	SUBSTATION SITE PLAN
BRKT–W3C–2000	FOUNDATION PLAN
BRKT–W3E–1000	OVERALL ONE LINE DIAGRAM
BRKT–W3E–2000	CONDUIT PLAN
BRKT–W3E–3000	GROUNDING PLAN
BRKT–W3E–6001	INSULATOR LOCATION PLAN
BRKT–W3E–7000	CONTROL BUILDING PLAN



345 kV WETT PHASE ROTATION

0 40' 80'

NOTICE:

THE DATA IN THIS DOCUMENT INCORPORATES PROPRIETARY RIGHTS OF WETT. ANY PARTY ACCEPTING THIS DOCUMENT DOES SO IN CONFIDENCE AND AGREES THAT IT SHALL NOT BE DUPLICATED IN WHOLE OR PART, NOR DISCLOSED TO OTHERS WITHOUT THE CONSENT OF WETT.

CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY PROJECT MANAGER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.

ISSUE	DATE	REVISION DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER
7B	06/01/2023	PRELIMINARY STATION LAYOUT WITH BAY 5 & 6 ADDITION	C.LANDRY	C.LOZANO
4	03/01/17	IFC, LINE 4 ADDITION DASHIELL JOB #801835A	R.ROHDE	A.BERGER
AB2	07/28/17	FINAL ISSUE – DASHIELL JOB # 801835A	R.ROHDE	A.BERGER
5	07/18/18	RE–IFC, 345kV SSVT UPGRADE DASHIELL JOB #802500A	R.ROHDE	K.SMITH
AB3	05/10/19	FINAL ISSSUE – DASHIELL JOB # 802500A	R.ROHDE	A.BERGER
6	12/15/22	ISSUED FOR CONSTRUCTION	B.BECKAGE	T.BAKER
7A	03/15/23	ISSUED FOR BID	B.BECKAGE	T.BAKER

SEAL

WIND ENERGY TRANSMISSION TEXAS, LLC

WETT

BEARKAT SUBSTATION
ELECTRICAL PLAN
BAY 5 & 6 ADDITION

FILE NAME	BRKT–W3E–6000.DWG	SHEET BRKT-W3E-6000-R7B
SCALE	NONE	

Ltr.	Date	Revision	By	Chkd.	Appd.
B					
A					
–					

Ltr.	Date	Revision	By	Chkd.	Appd.
E					
D					
C					

REV DWN. BY:
REV CHKD BY:
REV APPRVD BY:

DWN. BY:
CHKD BY:
APPRVD BY:

RELEASED FOR INFORMATION ONLY BY LCRA TSC SUBSTATION ENGINEERING ON 01/12/2023 AND SHALL NOT BE USED FOR PERMIT, PROCUREMENT OR CONSTRUCTION PURPOSES

LCRA TRANSMISSION SERVICES CORPORATION
AUSTIN, TEXAS

LOCATION
LCRA–NORTH McCAMEY

INITIAL LAYOUT
FOR PLC SCOPE 2054.2

DATE 1–2023
SCALE 1"=50'–0"
DWG. NO. S476–E–3–1

XXXX–XX

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