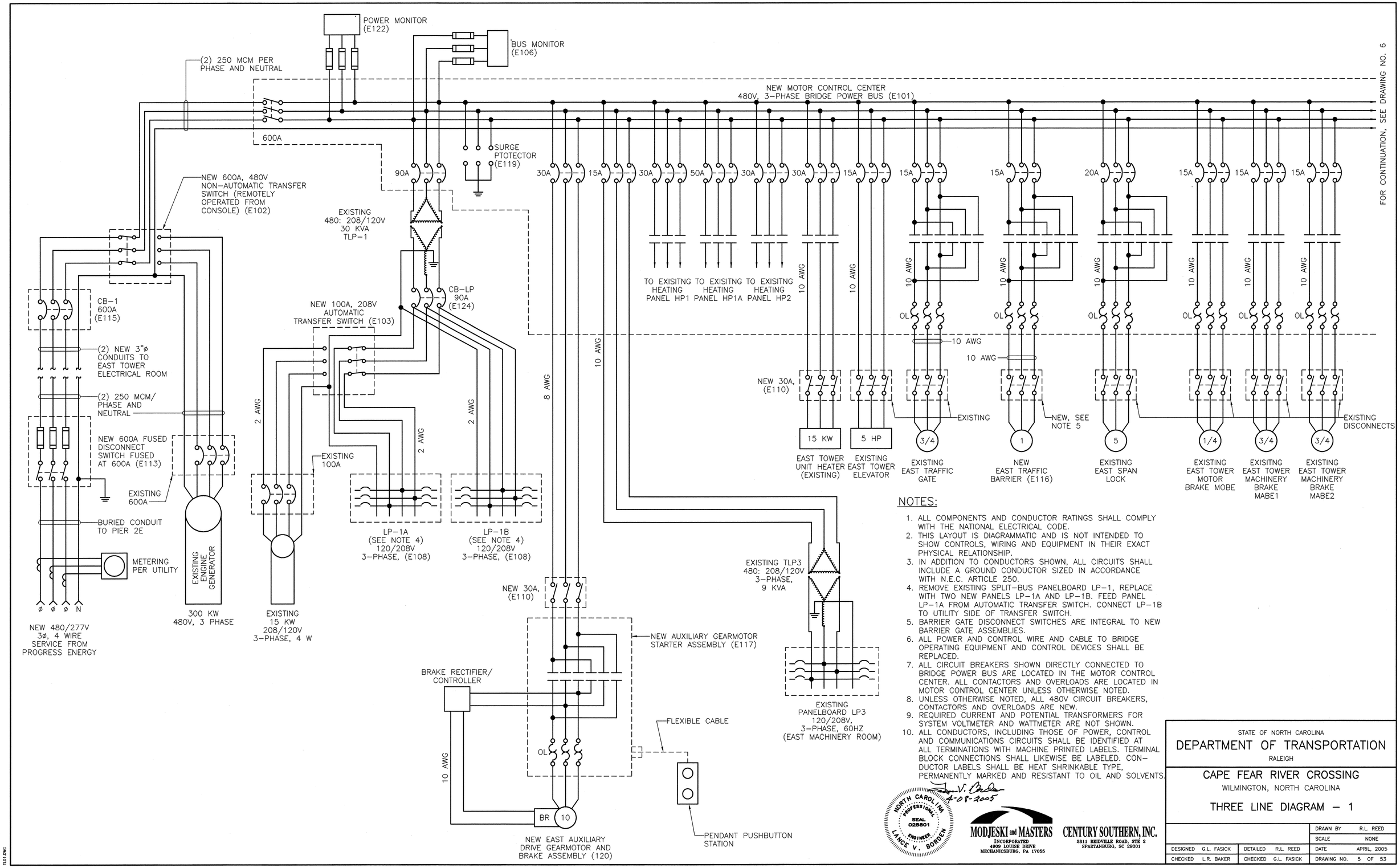

NOTES:

1. ALL COMPONENTS AND CONDUCTOR RATINGS SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE.
2. THIS LAYOUT IS DIAGRAMMATIC AND IS NOT INTENDED TO SHOW CONTROLS, WIRING AND EQUIPMENT IN THEIR EXACT PHYSICAL RELATIONSHIP.
3. IN ADDITION TO CONDUCTORS SHOWN, ALL CIRCUITS SHALL INCLUDE A GROUND CONDUCTOR SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250.
4. REMOVE EXISTING SPLIT-BUS PANELBOARD LP-1, REPLACE WITH TWO NEW PANELS LP-1A AND LP-1B. FEED PANEL LP-1A FROM AUTOMATIC TRANSFER SWITCH. CONNECT LP-1B TO UTILITY SIDE OF TRANSFER SWITCH.
5. BARRIER GATE DISCONNECT SWITCHES ARE INTEGRAL TO NEW BARRIER GATE ASSEMBLIES.
6. ALL POWER AND CONTROL WIRE AND CABLE TO BRIDGE OPERATING EQUIPMENT AND CONTROL DEVICES SHALL BE REPLACED.
7. ALL CIRCUIT BREAKERS SHOWN DIRECTLY CONNECTED TO BRIDGE POWER BUS ARE LOCATED IN THE MOTOR CONTROL CENTER. ALL CONTACTORS AND OVERLOADS ARE LOCATED IN MOTOR CONTROL CENTER UNLESS OTHERWISE NOTED.
8. UNLESS OTHERWISE NOTED, ALL 480V CIRCUIT BREAKERS, CONTACTORS AND OVERLOADS ARE NEW.
9. REQUIRED CURRENT AND POTENTIAL TRANSFORMERS FOR SYSTEM VOLTMETER AND WATTMETER ARE NOT SHOWN.
10. ALL CONDUCTORS, INCLUDING THOSE OF POWER, CONTROL AND COMMUNICATIONS CIRCUITS SHALL BE IDENTIFIED AT ALL TERMINATIONS WITH MACHINE PRINTED LABELS. TERMINAL BLOCK CONNECTIONS SHALL LIKEWISE BE LABELED. CONDUCTOR LABELS SHALL BE HEAT SHRINKABLE TYPE, PERMANENTLY MARKED AND RESISTANT TO OIL AND SOLVENTS.

V. Borden 4-08-2005

NORTH CAROLINA PROFESSIONAL SEAL 025801 ENGINEER LANCE V. BORDEN

MODJESKI and MASTERS INCORPORATED 4909 LOUISE DRIVE MECHANICSBURG, PA 17055

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

CAPE FEAR RIVER CROSSING
WILMINGTON, NORTH CAROLINA

THREE LINE DIAGRAM – 1

		DRAWN BY	R.L. REED
		SCALE	NONE
DESIGNED G.L. FASICK	DETAILED R.L. REED	DATE	APRIL, 2005
CHECKED L.R. BAKER	CHECKED G.L. FASICK	DRAWING NO.	5 OF 53

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