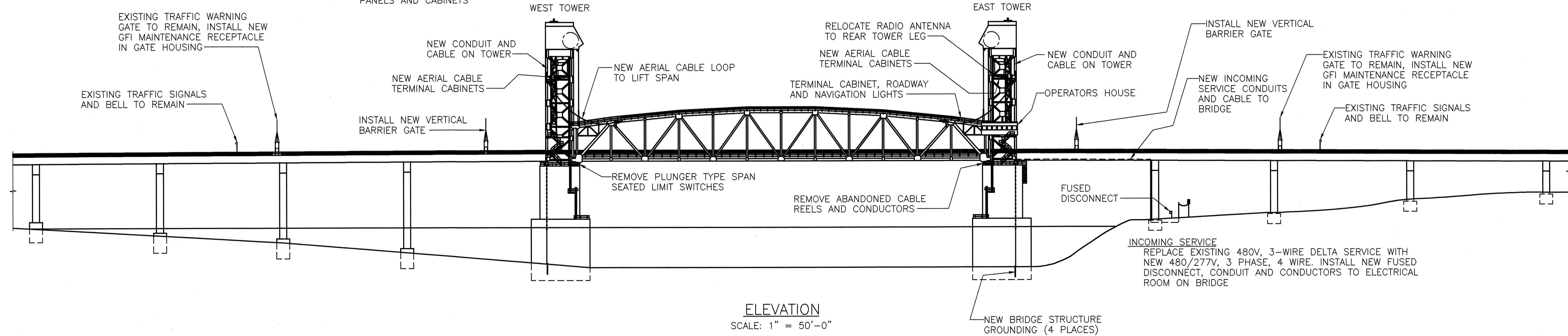


PLAN
SCALE: 1" = 50'-0"

- TOWER TOP MACHINERY ROOMS**
- INSTALL PLC I/O CABINETS
 - REMOVE AND REPLACE ROTARY CAM LIMIT SWITCH
 - REMOVE MOTOR TACHOMETERS
 - INSTALL NEW AUXILIARY DRIVE GEAR MOTORS, INTERFACING AND CONTROLS
 - INSTALL NEW SPAN POSITION RESOLVERS
 - INSTALL NEW MOTOR SPEED ENCODERS
 - INSTALL NEW BRAKE DISCONNECT SWITCHES IN WEST MACHINERY ROOM
 - REMOVE ABANDONED WIRE CABLE, CONTROL PANELS AND CABINETS
- LIFT SPAN**
- INSTALL NEW CABLES ACROSS LIFT SPAN
 - INSTALL NEW JUNCTION BOX FOR LIFT SPAN CIRCUITS
 - RECONNECT SPAN NAVIGATION LIGHT FEEDERS
 - RECONNECT SPAN ROADWAY LIGHTING CIRCUITS
 - REMOVE ABANDONED CONDUCTORS
 - INSTALL LIFT SPAN GROUNDING PROVISIONS
- OPERATORS HOUSE**
- REMOVE EXISTING MOTOR CONTROLS AND INSTALL NEW MOTOR CONTROL CENTER
 - REMOVE AND REPLACE VARIABLE SPEED MOTOR DRIVES
 - INSTALL NEW PLC CONTROL SYSTEM
 - REMOVE AND REPLACE BRIDGE CONTROL CONSOLE
 - REMOVE ALL ABANDONED WIRE AND CABLE (EXCEPT SUBMARINE CABLE)
 - REMOVE DESIGNATED SWITCHGEAR
 - REMOVE MOTOR SECONDARY RESISTORS
 - REMOVE AND REPLACE DESIGNATED PANELBOARDS



ELEVATION
SCALE: 1" = 50'-0"

GENERAL NOTES:

- THIS DRAWING INDICATES THE LOCATIONS AND GENERAL DESCRIPTIONS OF THE MAJOR ITEMS OF WORK. CONTRACTOR SHALL REFERENCE THE PLANS AND SPECIFICATIONS FOR COMPLETE DESCRIPTIONS OF REQUIRED WORK AND MATERIALS.
- SEE SPECIFICATIONS AND SEQUENCE OF CONSTRUCTION DRAWINGS FOR STAGING OF EQUIPMENT REPLACEMENTS AND SYSTEM CHANGE-OVER.
- UNLESS OTHERWISE DIRECTED BY NCDOT, ALL REMOVALS BECOME PROPERTY OF THE CONTRACTOR.

STRUCTURAL STEEL NOTES:

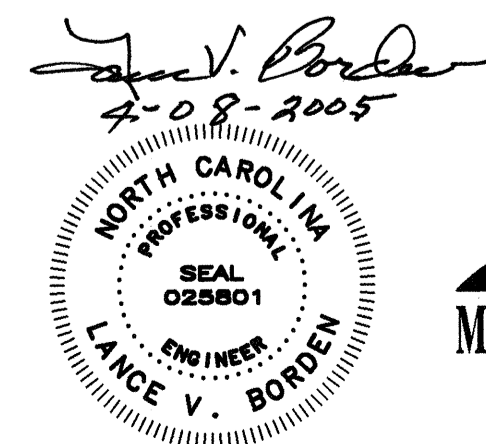
- PROVIDE STRUCTURAL STEEL CONFORMING TO ASTM A36, EXCEPT WHEN NOTED OTHERWISE.
- ALL FASTENERS ARE GALVANIZED 7/8 INCH DIAMETER ASTM A325 HIGH STRENGTH BOLTS, EXCEPT AS NOTED.

WELDING NOTES:

- MAKE TACK WELDS WITH THE SAME TYPE OF ELECTRODES, AND INCORPORATE IN THE FINAL WELD. NO OTHER TACK WELDING WILL BE PERMITTED.
- DO NOT WELD WHEN SURFACES TO BE WELDED ARE MOIST OR EXPOSED TO RAIN, SNOW, OR WIND, OR WHEN WELDERS ARE EXPOSED TO INCLEMENT CONDITIONS THAT WILL ADVERSELY AFFECT THE QUALITY OF THE WORK.

- DO NOT WELD OR BURN WHEN THE TEMPERATURE IS BELOW 40 DEGREES F. PREHEAT AND MAINTAIN THE TEMPERATURE OF THE METAL TO AT LEAST 70 DEGREES F WHEN THE TEMPERATURE OF THE METAL IS BETWEEN 40 DEGREES F AND 70 DEGREES F DURING WELDING OR BURNING. EXTEND THE AREA TO BE HEATED 3 INCHES BEYOND THE WELD IN ALL DIRECTIONS.
- REMOVE BY APPLICATION OF HEAT ANY MOISTURE PRESENT AT POINT OF WELD. PROVIDE WINDBREAKS FOR PROTECTION FROM DIRECT WIND.
- PRIOR TO PLACING THE WELD, THOROUGHLY CLEAN ALL PORTIONS OF THE SURFACE TO RECEIVE WELDS OF ALL FOREIGN MATTER, INCLUDING PAINT FILM, FOR A DISTANCE OF 2 INCHES FROM EACH SIDE OF THE OUTSIDE LINES OF THE WELD.
- WHEN NO WELD SIZE IS SHOWN, PROVIDE THE MINIMUM WELD SIZE PER AASHTO STANDARD SPECIFICATIONS.

- DO NOT FIELD WELD, EXCEPT WHERE SHOWN ON THE DRAWINGS, WITHOUT PRIOR APPROVAL OF THE ENGINEER.



STATE OF NORTH CAROLINA			
DEPARTMENT OF TRANSPORTATION			
RALEIGH			
CAPE FEAR RIVER CROSSING			
WILMINGTON, NORTH CAROLINA			
ELECTRICAL PLAN AND ELEVATION			
DESIGNED	G.L. FASICK	DATE	APRIL, 2005
CHECKED	L.R. BAKER	DRAWING NO.	2 OF 53
DRAWN BY	R.L. REED	SCALE	AS NOTED
CHECKED	G.L. FASICK		