

PLAN VIEW  
SCALE: 1" = 20'

**PROPOSED SUBMITTAL SCHEDULE**

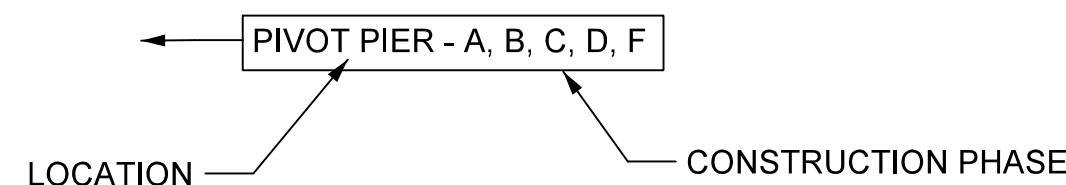
1. CERTIFICATIONS FOR SUBCONTRACTORS
2. CPM SCHEDULE SUBMISSION COORDINATING BETWEEN DISCIPLINES AND SUBCONTRACTORS.
3. AUXILIARY OPERATING SYSTEM AND EQUIPMENT\*
  - A. CALCULATIONS
  - B. TEMPORARY OPERATION NARRATIVE AND OPERATING PROCEDURE
  - C. COMPONENT CUT SHEETS
  - D. LAYOUT DRAWINGS
  - E. MACHINERY AND ELECTRICAL DETAILS
4. DEMOLITION PLAN
  - A. REMOVAL PLAN AND FINAL DISPOSITION OF CONTAMINATED MATERIALS
  - B. ASBESTOS REMEDIATION AND FLOOR TILE REMOVAL IN OPERATOR ROOM
  - C. MECHANICAL AND ELECTRICAL DEMOLITION PLAN
5. SURFACE PREPARATION AND EPOXY OVERLAY
6. CENTER PIVOT ASSEMBLY
  - A. SURVEY RESULTS WITH PROPOSED NEW SPAN ELEVATION AND POSITION
  - B. SPAN JACKING PLAN AND SUPPORTING CALCULATIONS
  - C. PROCEDURE/DETAIL DRAWINGS FOR REHABILITATION OF EXISTING PIVOT BEARING TURNING MACHINERY
7.
  - A. LAYOUT AND DETAIL DRAWINGS FOR NEW RACK SECTIONS
  - B. DETAIL DRAWINGS FOR NEW PINION
  - C. PROCEDURE/DETAIL DRAWINGS FOR REHABILITATION OF EXISTING BEARINGS
  - D. DETAIL DRAWINGS FOR BEVEL GEARING DEMOLITION PLAN
  - E. DETAIL DRAWINGS FOR BRAKES AND BRAKE WHEELS
  - F. DETAIL DRAWINGS FOR NEW SHAFTS AND COUPLINGS
  - G. DETAIL DRAWINGS AND CUT SHEETS FOR NEW SPEED REDUCER
8. END AND CENTER WEDGE OPERATING MACHINERY
  - A. PROCEDURE/DETAIL DRAWINGS FOR REHABILITATION OF EXISTING WORM GEAR HOUSING
  - B. PROCEDURE/DETAIL DRAWINGS FOR REHABILITATION OF EXISTING CRANK SHAFT
  - C. PROCEDURE/DETAIL DRAWINGS OF EXISTING WEDGES AND GUIDES
  - D. PROCEDURE/DETAIL DRAWINGS OF CONNECTION RODS
  - E. PROCEDURE/DETAIL DRAWINGS OF EXISTING SHAFT JACK
  - F. PROCEDURE/DETAIL DRAWINGS FOR REHABILITATION OF EXISTING BEARINGS
  - G. COMPONENT CUT SHEETS AND DETAIL DRAWINGS FOR NEW BUSHINGS
  - H. PROCEDURE/DETAIL DRAWINGS FOR REPLACEMENT OF EXISTING COUPLINGS
9. ELECTRICAL CONTROL SYSTEM SUBMITTALS
  - A. WIRING DIAGRAMS AND CONTROL SCHEMATIC DRAWINGS
  - B. COMPONENT CUT SHEETS AND LAYOUT DRAWINGS FOR SPAN DRIVE, SPAN MOTOR, AND WEDGE MOTOR INCLUDING TEST REPORTS.
  - C. COMPONENT CUT SHEETS AND DETAIL DRAWINGS FOR MOTOR, BRAKE, AND MACHINERY BRAKES
  - D. COMPONENT CUT SHEETS AND LAYOUT DRAWINGS FOR MOTOR CONTROL CENTER, CONTROL DESK, AND CONTROL ENCLOSURES
  - E. COMPONENT CUT SHEETS, LAYOUT DRAWINGS, AND INSTALLATION DETAILS FOR DISCONNECT SWITCHES
10. SUBMARINE CABLE
  - A. COMPONENT CUT SHEETS
  - B. INSTALLATION PROCEDURE
  - C. LAYOUT AND DETAILED INSTALLATION DRAWINGS
11. STAND-BY GENERATOR AND ATS
  - A. COMPONENT CUT SHEETS
  - B. LAYOUT DRAWINGS
12. INCOMING SERVICE EQUIPMENT
  - A. COMPONENT CUT SHEETS
  - B. INSTALLATION AND LAYOUT DRAWINGS
13. CONDUIT AND WIRE
  - A. COMPONENT CUT SHEETS
  - B. CONDUIT BLOCK DIAGRAM AND SCHEDULE
  - C. CONDUIT INSTALLATION DRAWINGS
14. REST PIER ACCESS SYSTEM
15. CONTROL HOUSE ROOF, DOORS, WINDOW, TILES, PAINTING, AND FLAG POLE
16. LIMIT SWITCHES
  - A. COMPONENT CUT SHEETS
  - B. INSTALLATION DETAILS
  - C. MOUNTING BRACKET AND SUPPORT DETAILS
17. WARNING AND BARRIER GATE MODIFICATIONS
  - A. COMPONENT CUT SHEETS
  - B. LAYOUT AND DETAILED INSTALLATION DRAWINGS
18. COMPONENT CUT SHEETS AND LAYOUT DRAWINGS FOR HVAC AND LIGHTING EQUIPMENT
19. SEPTIC TANK SUPPORT PLATFORM
20. CLEANING AND PAINTING OF SECOND FLOOR HANDRAILS
21. FINAL ACCEPTANCE TESTING PROCEDURE
22. AS-BUILT DRAWINGS AND O&M MANUALS

\*PROPOSED DESIGN OF AUXILIARY SYSTEM SHALL BE STAMPED BY A LICENSED ENGINEER IN THE STATE OF NORTH CAROLINA

**PROPOSED CONSTRUCTION SEQUENCE**

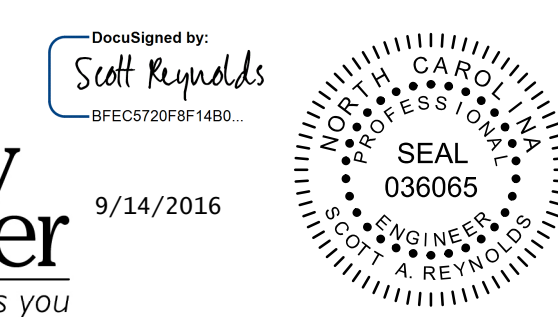
- A. SURVEY AND INITIAL WORK
  1. SURFACE PREPARATION AND EPOXY OVERLAY ON MOVABLE SPAN AND 1 APPROACH SPAN ON EACH SIDE (SPAN 115A AND SPAN 115B).
  2. VERIFY FIELD CONDITIONS AND MEASUREMENTS.
- B. INSTALL TEMPORARY/AUX SYSTEM
  1. INSTALL/IMPLEMENT AUXILIARY OPERATING SYSTEM.
  2. START DEMOLITION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT.
- C. POWER DISTRIBUTION, DEMOLITION, CONTROL HOUSE RENOVATIONS
  1. REPLACE EXISTING STAND-BY GENERATOR, ATS, MAIN CIRCUIT BREAKER AND ASSOCIATED CONDUIT AND WIRE.
  2. REMOVE EXISTING SUBMARINE CABLES ROUTED TO PIVOT PIER AND ALL ASSOCIATED ENCLOSURES. MAINTAIN EXISTING END PIER SUBMARINE CABLE AND ENCLOSURE.
  3. INSTALL NEW CONTROL HOUSE ROOF AND REPLACE DOORS AND WINDOWS
  4. INSTALL REST PIER ACCESS SYSTEM
  5. UPGRADE EXISTING UTILITY SERVICE, METER, TRANSFORMER, AND INSTALL ASSOCIATED CONDUIT AND WIRE.
- D. TURNING MACHINERY, DEMOLITION, CONTROL HOUSE RENOVATIONS
  1. REMOVE EXISTING MCC, CONTROL DESK, AND CONTROL EQUIPMENT FROM CONTROL HOUSE.
  2. REPLACE CONTROL HOUSE FLOOR TILES AND PAINT INTERIOR AND EXTERIOR OF CONTROL HOUSE.
  3. INSTALL NEW CONTROL DESK, MCC, DRIVES, PLC ENCLOSURES AND ASSOCIATED CONDUIT AND WIRE INSIDE THE CONTROL HOUSE.
  4. REHABILITATE CENTER PIVOT BEARING (REQUIRES TEMPORARY SHUTDOWN TO NAVIGATION)
  5. REHABILITATE TURNING MACHINERY
- E. SUBMARINE CABLES AND CONTROL SYSTEM
  1. INSTALL NEW SUBMARINE CABLES
  2. INSTALL NEW REMOTE PLC ENCLOSURE ON PIVOT PIER
  3. INSTALL NEW LIMIT SWITCHES AND ASSOCIATED CONDUIT AND WIRE.
- F. WEDGE MACHINERY AND TRAFFIC CONTROL
  1. REHABILITATE WEDGE MACHINERY AND INSTALL ASSOCIATED CONDUIT AND WIRE (REQUIRES TEMPORARY MEANS TO LIFT/SUPPORT SPAN).
  2. REHABILITATE WARNING GATES (REQUIRES SINGLE LANE CLOSURE)
  3. REHABILITATE BARRIER GATES (REQUIRES SINGLE LANE CLOSURE)
- G. LIGHTING, HEATING AND PAINTING
  1. INSTALL HVAC, LIGHTING, AND ASSOCIATED CONDUIT AND WIRE IN THE CONTROL HOUSE
  2. CLEAN AND PAINT ALL NEW OPERATING EQUIPMENT AND STRUCTURAL STEEL
  3. REHABILITATE CENTERING DEVICE
- H. TESTING
  1. PERFORM FINAL ADJUSTMENTS OF THE MECHANICAL AND ELECTRICAL SYSTEMS
  2. FINALIZE O&M MANUALS
  3. PERFORM START-UP AND COMMISSIONING
- I. ALTERNATIVE
  1. THE CONTRACTOR HAS THE OPTION TO PROPOSE AN ALTERNATE CONSTRUCTION SEQUENCE FOR THE APPROVAL OF THE ENGINEER.

**LEGEND**



PROJECT NO. B-5936  
TYRRELL COUNTY  
 BRIDGE NO: 7

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
**PROPOSED CONSTRUCTION SEQUENCE**  
 ALLIGATOR RIVER SWING SPAN



DRAWN BY: QIV DATE: 8/8/2016  
 CHECKED BY: MJT DATE: 8/8/2016  
 DESIGN ENGINEER OF RECORD: SAR DATE: 8/8/2016

DWG NUMBER	TOTAL DWGS	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
3	90		1			3			G-3
			2			4			TOTAL SHEETS 3