

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 02 18 SHEETS
U.S. 20	28-50-M-1	JODAVIESS COUNTY	18	2	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT # 64C98		

SUMMARY
OF QUANTITIES

100% STATE
YOZ1

CODE NO.	ITEM	UNIT	QUANTITY
* X0325688	Onsite Application of Preservative Treatment and Stain	L Sum	1
* X0325689	Removal of Existing Timber Members	L Sum	1
50700105	Treated Timber	F.B.M.	4546
50501120	Structural Steel Removal	L Sum	1
50500105	Furnishing and Erecting Structural Steel	L Sum	1
50901760	Pipe Handrail	Foot	312
* X0325687	Temporary support and safety system	L Sum	1

* See Special Provisions.

GENERAL NOTES:

- The Contractor shall verify all dimensions, elevations and measurements at the job site. Any discrepancy between the drawings and the condition of the structure shall be immediately brought to the attention of the engineer. No work shall proceed until such discrepancy has been rectified.

The location and extent of repair items are based on visual observations made during field inspections, and are not guaranteed to be accurate or all inclusive. The location, extent and quantity of repair shall be verified by the field engineer.

Plan dimensions and details relative to existing plans are subject to routine variations. The contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variation shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid the quantity actually furnished based upon the unit price bid for the work.

- All fasteners used with treated wood products shall be hot-dipped galvanized according to AASHTO M 232, Class C, except the minimum weight (mass) of zinc coating shall be 2.0 oz/sq ft
- Screw Type Fastening shall be screwed into precored Lead Holes. Fasteners shall be screwed into place for the entire length of the fastening. Driving with a Maul or other tool will not be permitted.
- Apply Onsite Application of Preservative Treatment and Stain (See Special Provisions) to the entire wooden structure.
- The Contractor shall submit detail plans and calculations of proposed temporary support systems & procedures for removal & replacement of hangers & beams to the Engineer for approval, prior to commencing any work at the tower. The system shall be designed and sealed by a Structural Engineer licensed in Illinois. Approval will not relieve the Contractor of responsibility for the safety of the structure.
- Any damage to the existing structure during the process shall be repaired or replaced at no additional cost.
- The existing Structure does not address life safety requirements of the Americans With Disabilities Act (ADA), the Illinois Accessibility Code (IAC), the International Building Code (IBC), or any other applicable life safety codes.
- It is the responsibility of the Contractor to comply with all applicable City, County, State and Federal Laws, Including the Occupational Safety and Health Act (OSHA) and Regulations adopted Pursuant thereto.
- Cost of Replacement of existing fasteners that are either rusted, damaged or have missing parts is included with Furnishing and Erecting Structural Steel.
- Calculated Weight of Structural Steel = 1200 lbs.
- North Arrow shown on Existing plans on Sheets 13 to 15 of 18 is incorrect. Correct North Arrow is shown on Sheets 4 & 5 of 18.

MATERIAL

TIMBER: Treated Southern Pine or Douglas Fir (Select Structural Grade or Better)

MIN. WORKING STRESSES:

Extreme Fiber in Bending	Fb	1500 psi
Tension Parallel to Grain	Ft	1000 psi
Shear Parallel to Grain,	Fv	175 psi
Modulus of Elasticity	E	1,900,000 psi

STRUCTURAL STEEL:

(For L's and Plates)

Angle	ASTM A572	Grade 50 (Fy=50 ksi)
Plate	ASTM A572	Grade 50 (Fy=50 ksi)
Pipe	ASTM A53	Grade B (Fy=35 ksi)
Bolts	ASTM-307	Grade C

LOADING

Roof Live Load = 30 psf
Platform Live Load = 100 psf
Ice Load = 1/2" Thick Over All Members

SPECIFICATIONS

DESIGN:
National Design Specifications for Wood Construction, 2005
Manual of Steel Construction, ASD, 9th Ed., 1989

CONSTRUCTION:
IDOT Standard Specifications for Road & Bridge Construction, 2007
IDOT Supplemental Specifications & Recurring Special Provisions
Additional Special Provisions

DESIGNED	I.L.
CHECKED	H.T.
DRAWN	R.A.
CHECKED	H.T./M.R.

GENERAL NOTES & BILL OF MATERIAL
LONGHOLLOW SCENIC OVERLOOK REST AREA
TOWER REPAIRS
FAP RT. 301 (U.S. RT. 20), SECTION 28-50-M-1
JODAVIESS COUNTY

SCALE: NONE DATE: DECEMBER, 2006
Soodan
Soodan & Associates, Inc.
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