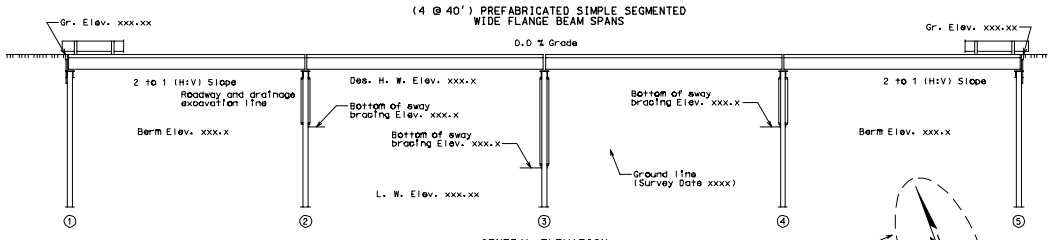
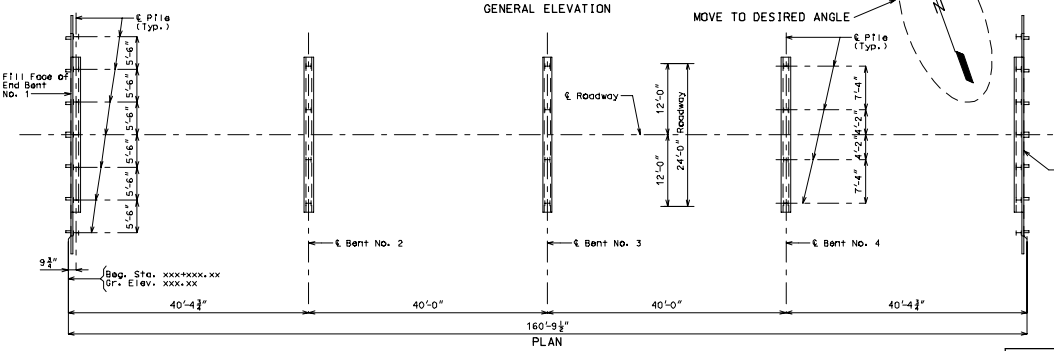
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

State	Proj. No.		Sheet No.
MO			
SEC/SUR	TWP	RGE	



GENERAL ELEVATION



PLAN

"⊕" indicates location of borings.

Notice and Disclaimer Regarding Boring Log Data

The locations of all subsurface borings for this structure are shown on the bridge plan sheet(s) for this structure. Boring data for the numbered locations is shown on sheet(s) no. . The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, is available from the Project Contact upon written request as outlined in the Project Special Provisions. No greater significance or weight should be given to the boring data depicted on the plan sheets than is subsurface data available from the district or elsewhere.

The Commission does not represent or warrant that any such boring data accurately depicts the conditions to be encountered in constructing this project. A contractor assumes all risks it may encounter in basing its bid prices, time or schedule of performance on the boring data depicted here or those available from the district, or on any other documentation not expressly warranted, which the contractor may obtain from the Commission.

PILE DATA						
BENT NO.		1	2	3	4	5
Pile Type and Size		HP 14 x 73				
Number		7	4	4	4	7
Approximate Length	Ft.	XX	XX	XX	XX	XX
Design Bearing	Tons	11	19	19	19	11
Hammer Energy Required	Ft.-Lbs.	X.XXX	X.XXX	X.XXX	X.XXX	X.XXX

Note: Minimum energy requirement of hammer is based on plan length and design bearing value of piles. All piles shall be driven to practical refusal.

Designed
Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

LOCATION SKETCH

Sheet No. of

GENERAL NOTES:

Design Specifications::
2002 - AASHTO 17th Edition
Seismic Performance Category
Acceleration Coefficient =

Design Loading:
HS20-44
Earth 120 #/Cu. Ft., Equivalent Fluid Pressure 45#/Cu. Ft.

Design Unit Stresses:
Structural Steel (ASTM A709 Grade 50W) fy = 50,000 psi
Structural Steel (ASTM A709 Grade 36) fy = 36,000 psi
Steel Pile (ASTM A709 Grade 50) fb = 9,000 psi fy = 50,000 psi
Structural Steel Tubing (ASTM A500) fy = 46,000 psi

Timber:
All timber shall be standard rough sawn. At the contractor's option, timber may be untreated or protected with commercially applied timber preservatives. All timber shall have a minimum strength of 1500 psi and shall be either douglas fir in accordance with paragraph 1238 (MC-19), 1248 (MC-19) and 1308B of the current edition of Standard Grading Rules for West Coast Lumber, southern pine in accordance with paragraphs 312 (MC-19), 342 (MC-19) and 405.1 of the current edition of Southern Pine Inspection Bureau Grading Rules, or a satisfactory grade of sound native oak.

Bolts:
All bolts shall be high strength ASTM A325 except as noted.

Structural Steel:
All structural steel shall be ASTM A709 Grade 50W except piles, sway bracing, thrie beam rail assembly and structural tubing. Structural tubing coating shall be in accordance with Sec 718.

Misc:
The superstructure only & cap beam units will be provided by the State and shall be transported from _____ Maintenance Lot. The superstructure shall be returned and stored at the same location as designated by the engineer after Bridge No. _____ is open to traffic.

Traffic:
Use existing bridge _____ during construction.

HYDROLOGIC DATA
Drainage Area = xx.x Sq. Mi.
Des. Discharge = xxxx c.f.s. (xx years)
Des. H. W. Elev. = xxx.x feet (xx years)
Estimated Backwater = xxx feet
BASIC FLOOD DATA
Discharge = xxxx c.f.s. (xxx years)
H. W. Elev. = xxx.x feet
Estimated Backwater = xxx feet
OVERTOPPING FLOOD DATA
Discharge = xxxx c.f.s. (xxx years)

NOTE TO DETAILER:
REMOVE THE BORING DATA
NOTES IF DOES NOT APPLY.

ESTIMATED QUANTITIES		
ITEM		TOTAL
Structural Steel Piles (14")	Linear Foot	XXX
Partial Furnishing of Superstructure	Lump Sum	1
Transporting and Erecting Superstructure	Lump Sum	1
Removing and Storing Superstructure	Lump Sum	1

B.M.

BRIDGE

STATE ROAD
ABOUT
PROJECT NO. STA.
JOB NO. RTE.

COUNTY
Date: / /

CREATED IN MICRO STATION

STD.
STD.
STD.
STD.
TEM 1