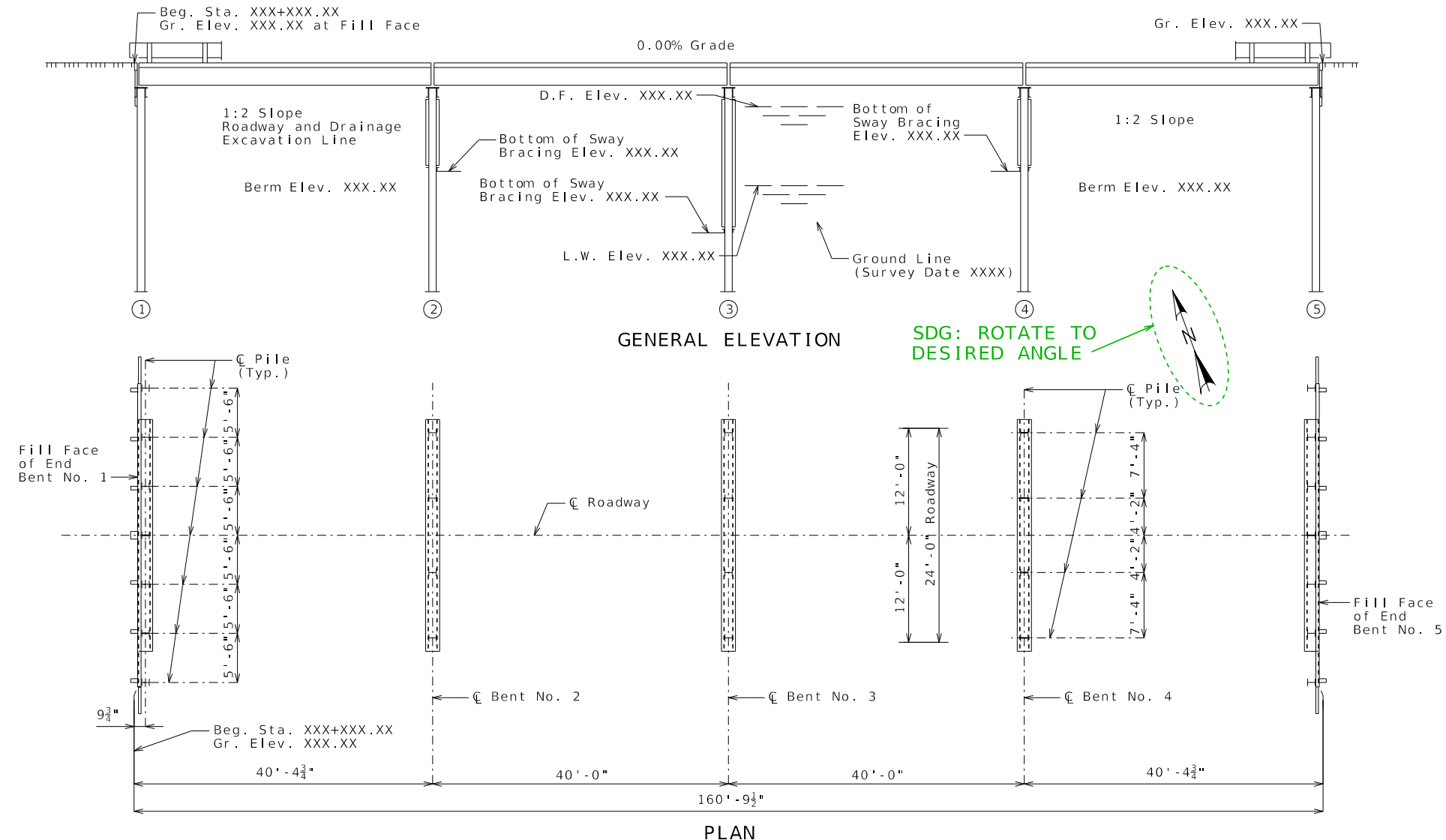


(4 @ 40') PREFABRICATED SIMPLE SEGMENTED WIDE FLANG BEAM SPANS



General Notes

**Design Specifications:**  
 2002 AASHTO LFD (17th Ed.) Standard Specifications  
 Seismic Performance Category =  
 Acceleration Coefficient =

**Design Loading:**  
 H20-44  
 Earth 120 lb/cf, Equivalent Fluid Pressure 45 lb/cf (Min.)

**Design Unit Stresses:**  
 Structural Steel (ASTM A709 Grade 50W)  $f_y = 50,000$  psi  
 Structural Steel (ASTM A709 Grade 36)  $f_y = 36,000$  psi  
 Steel Pile (ASTM A709 Grade 50)  $f_y = 50,000$  psi  
 Structural Steel Tubing (ASTM A500)  $f_y = 46,000$  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 123B (MC-19), 124B (MC-19) and 130BB 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 ASTM F3125 Grade A325 Type 3, except as noted.

All ASTM A307 bolts and their accompanying hex nuts and washers and all ASTM A449 Type 1 studs and their accompanying heavy hex nuts shall be galvanized in accordance with ASTM F2329.

**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.

**Substructure:**  
 All substructure items specified in Sec 718.3.1 except for the pile point reinforcement and sway bracing will be considered completely covered by the contract unit price for Structural Steel Piles (14 in.).

**Miscellaneous:**  
 The superstructure only and 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 Handling:**  
 Traffic to be maintained on existing structure during construction. See roadway plans for traffic control.

⊕ Indicates location of borings.  
 Notice and Disclaimer Regarding Boring Log Data  
 The locations of all subsurface borings for this structure are shown on the plan sheet(s) for this structure. 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, are shown on Sheet(s) No. \_\_\_\_\_ and may be included in the Electronic Bridge Deliverables. They will also be available from the Project Contact upon written request. No greater significance or weight should be given to the boring data depicted on the plan sheets than is given to the 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.

Estimated Quantities		
Item		Total
Structural Steel Pile (14 in.)	linear foot	X
* Fabricated Structural Carbon Steel (Misc.)	pound	1
Partial Furnishing of Superstructure	lump sum	1
Transporting and Erecting Superstructure	lump sum	1
Removing and Storing Superstructure	lump sum	1

\* Furnishing and installing sway bracing at intermediate bents.

Standard Drawing Guidance (do not show on plans: Remove the boring data notes if does not apply.)

Hydrologic Data	
Drainage Area =	___ mi <sup>2</sup>
Design Flood Frequency =	___ years
Design Flood Discharge =	___ cfs
Design Flood (D.F.) Elevation =	_____
<b>Base Flood (100-year)</b>	
Base Flood Elevation =	_____
Base Flood Discharge =	___ cfs
Estimated Backwater =	__ ft
Average Velocity thru Opening =	__ ft/s
<b>Freeboard (50-year)</b>	
Freeboard =	__ ft
<b>Roadway Overtopping</b>	
Overtopping Flood Discharge =	___ cfs
Overtopping Flood Frequency =	___ years
_____ Flood Elevation =	_____

B.M.  
 BRIDGE: ROUTE \* OVER \*  
 ROUTE \* FROM \* TO \*  
 ABOUT \* MILES \* OF \*  
 BEGINNING STA. \_\_\_\_\_

Foundation Data							
Type	Design Data	Bent Number					
		1	2	3	4	5	
Load Bearing Pile	Pile Type and Size	HP 14x73	HP 14x73	HP 14x73	HP 14x73	HP 14x73	
	Number	7	4	4	4	7	
	Approximate Length Per Each	ft	*	*	*	*	
	Pile Driving Verification Method	DF	DF	DF	DF	DF	
	Design Bearing	kip	22	38	38	38	22
	Min. Hammer Energy Required	ft-lb	*	*	*	*	*

All piling shall be driven to a minimum nominal axial compressive resistance equal to 3.5 times the Design Bearing as shown on the plans.


Designed  
 Detailed  
 Checked

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

Sheet No. 1 of

DATE PREPARED 5/12/2026	
ROUTE	STATE MO
DISTRICT	SHEET NO. 1
COUNTY	
JOB NO.	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	
DESCRIPTION	
DATE	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

  
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 JEFFERSON CITY, MO 65102  
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