

A00102, Sht. 1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO,	FISCAL YEAR		TOTAL SHEETS
5	MC.		19	8	

Note: All piling snall be cast-in-place concrete pile .r. accordance with Special Provisions for concrete sile. Estimuted quantities shown on pions .re bused on the following lengths: 16@45:0" and 48 @ 30-0" these lengths are approximate only. Poper lengths to give required bearing and presentration ore to be determined by the Contractor. All piling shall be driven to systain a load of of least 30 ton per pile and with tips to at least Elev. 935.0 at Bents No. 1 & 5.

All piling shall be driven with a steam hammer,

GENERAL NOTES:

Design Specification A.A.S.H.O.1853

Loading H20-44 (Future wearing surface 15 la') Concrete Stress 1.200 "/a"

Reinforcing Steel Stress 20,000 76'

Structural Steel Stress 18000 7/="

Concrete for superstructure shall be class "Bil" airentrained (See Special Provisions)

Concrete for substructure shall be closs "B" are entrained. If the contractor desires he may use Class "Bi "in view of Class "B" for concrete in substructure with pourment on the basis of Class B"concrete.

Rivets "4" \$; Holes "716" \$ except as noted.

Field connections shall be riveted or if the Contractor desires he may use high tensile steel bolts with corburized woshers in place of rivets except for connections noted in handrail details. If high tensile steel boits are used they shall be placed in such a manner that the nuts are in the least exposed position.

Point: Shop, none; field contact surfaces of bolted field connection except where high tensile bolts are used one coat of red and and surfaces inaccessible after crection three coats of red lead. No other paint to be applied by Contractor. except c - noted for pile shells Red lead required shall be furnished by Contractor Payment for cleaning and painting such surfaces will be included in unit price bid for Fabricated Structural Steel.

Where Joint filler is specified on the plans it shall reform with the requirements for Gray Rubber Compaund Joints as given in Section 59-22 B of the Standard upecifications.

Steel shells for Cast-in-Poce piles shall be pointed as specified for steel piles in Section 22-90 of the Standard Specifications.

Qualification of welding operators will be required.

Permits must be obtained for all truck loads over legal length. Items of material which can not be transported by truck with overall length less than 75'0" must be snipped by roil is the specified shipping point.

B.M. Elev. 971.02 40'1.7.2 Nalls in 18"Catalpa Stump Sta. 596 -48 11.5.9.5. Datum (1929 Adj)

BRIDGE OVER ROUTE 36

STATE ROAD FROM HAMILTON SOUTH ABOUT 0.5 MILE S. OF HAMILTON PROJECT NO. F-335 (14)(RTE 13)STA. 30+97.03

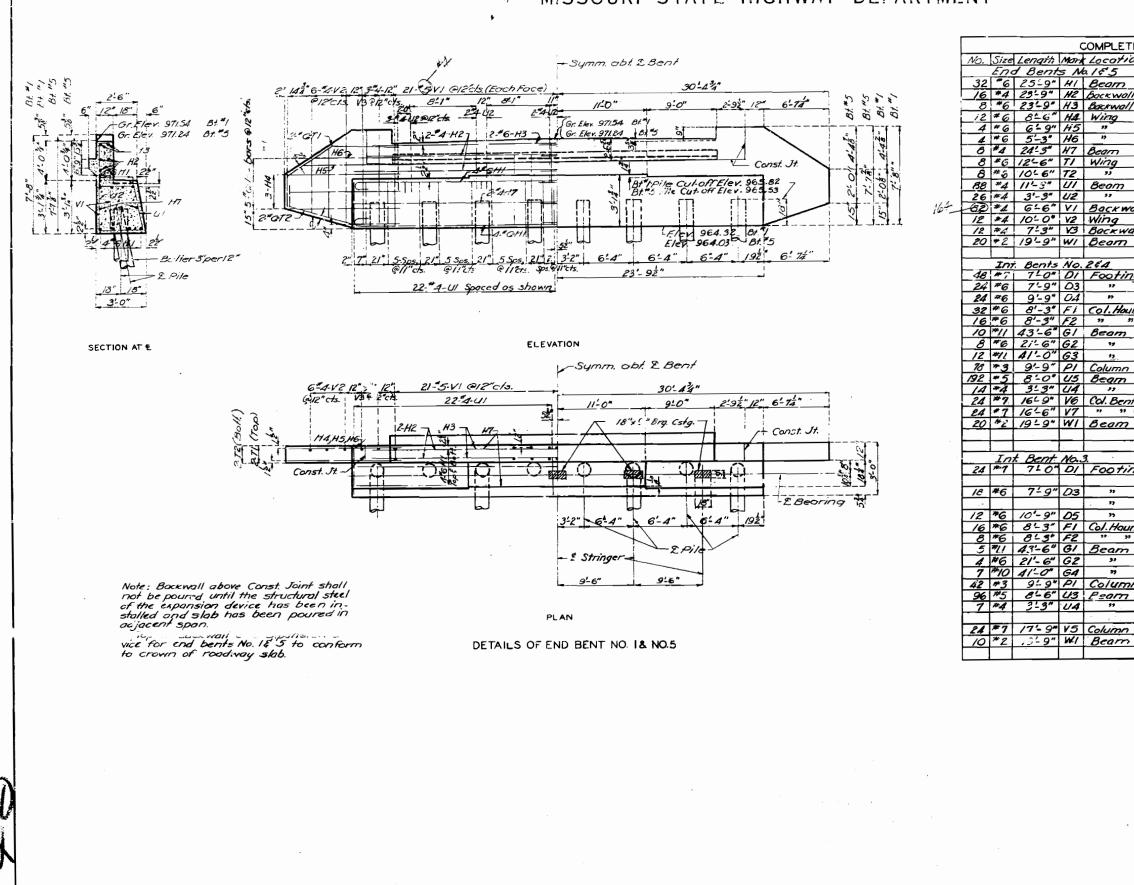
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STD.GHOR5 A-!0

MISSOURI STATE HIGHWAY DEPARTMENT



Assembled July 1957 by O.J.S. & J.M.G. Checked Nov. 1957 by 28.

Sheet No.2 of 7 .

A00102, Sht. 2

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BRIDGE OVER ROUTE 36

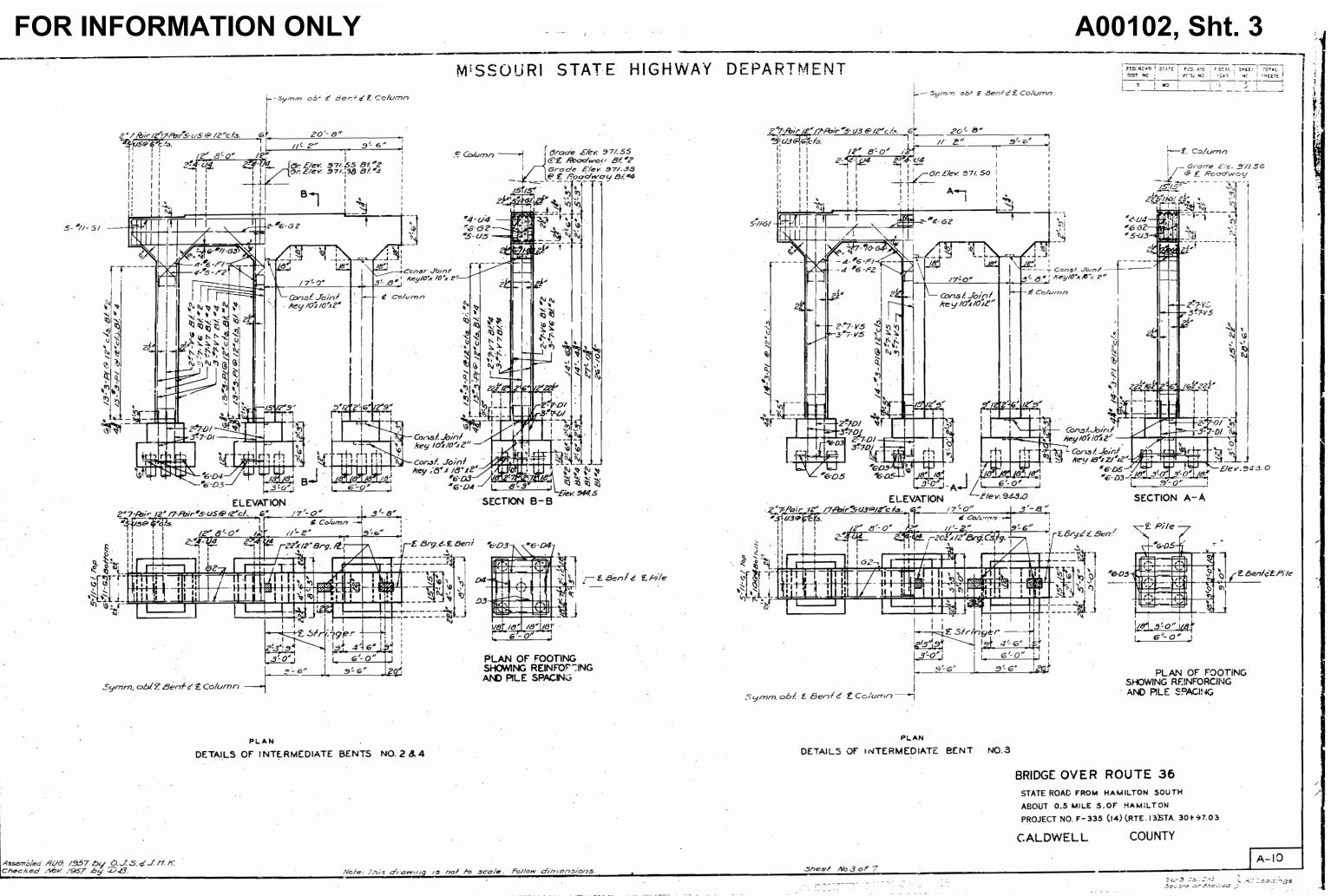
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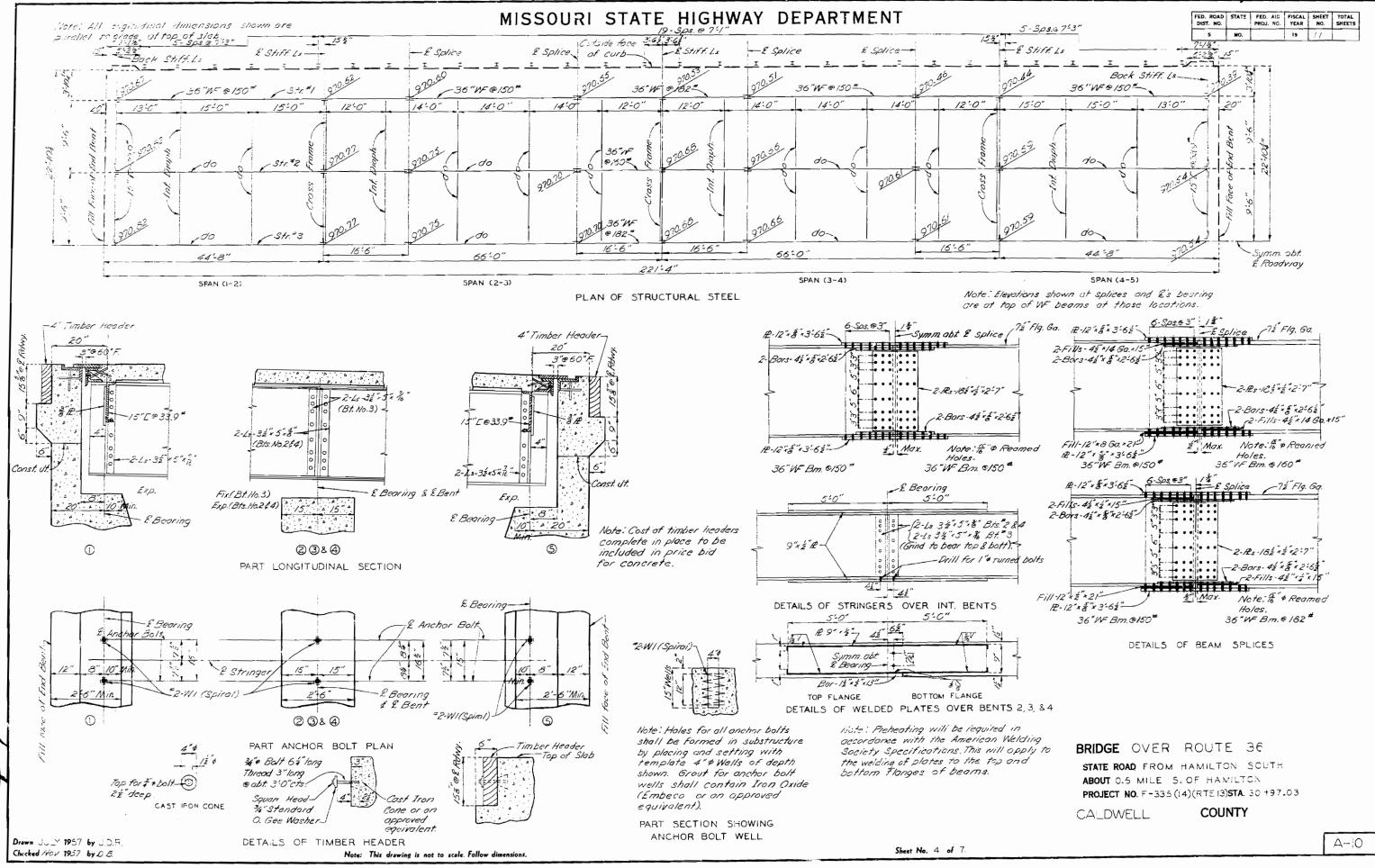
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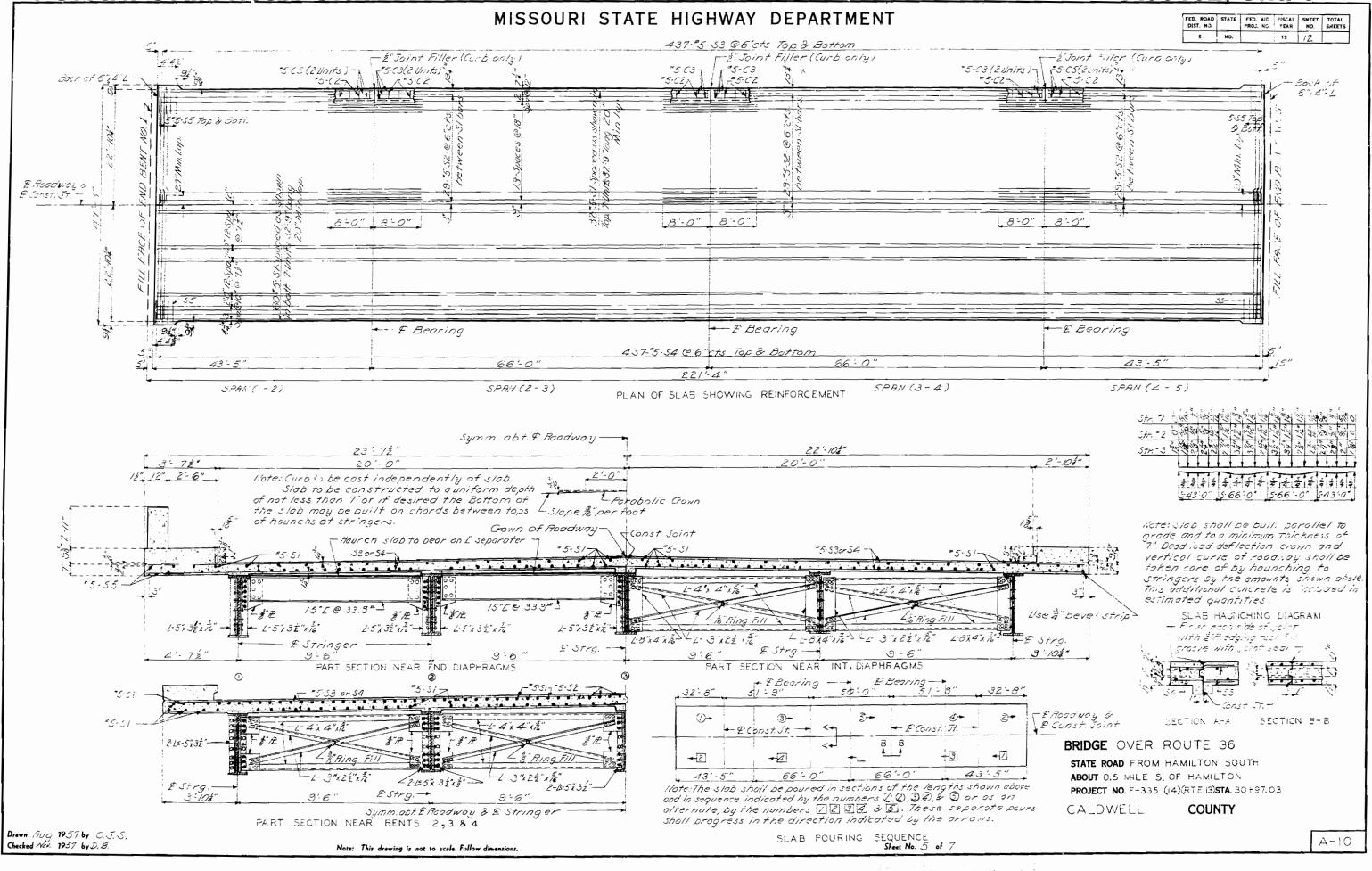
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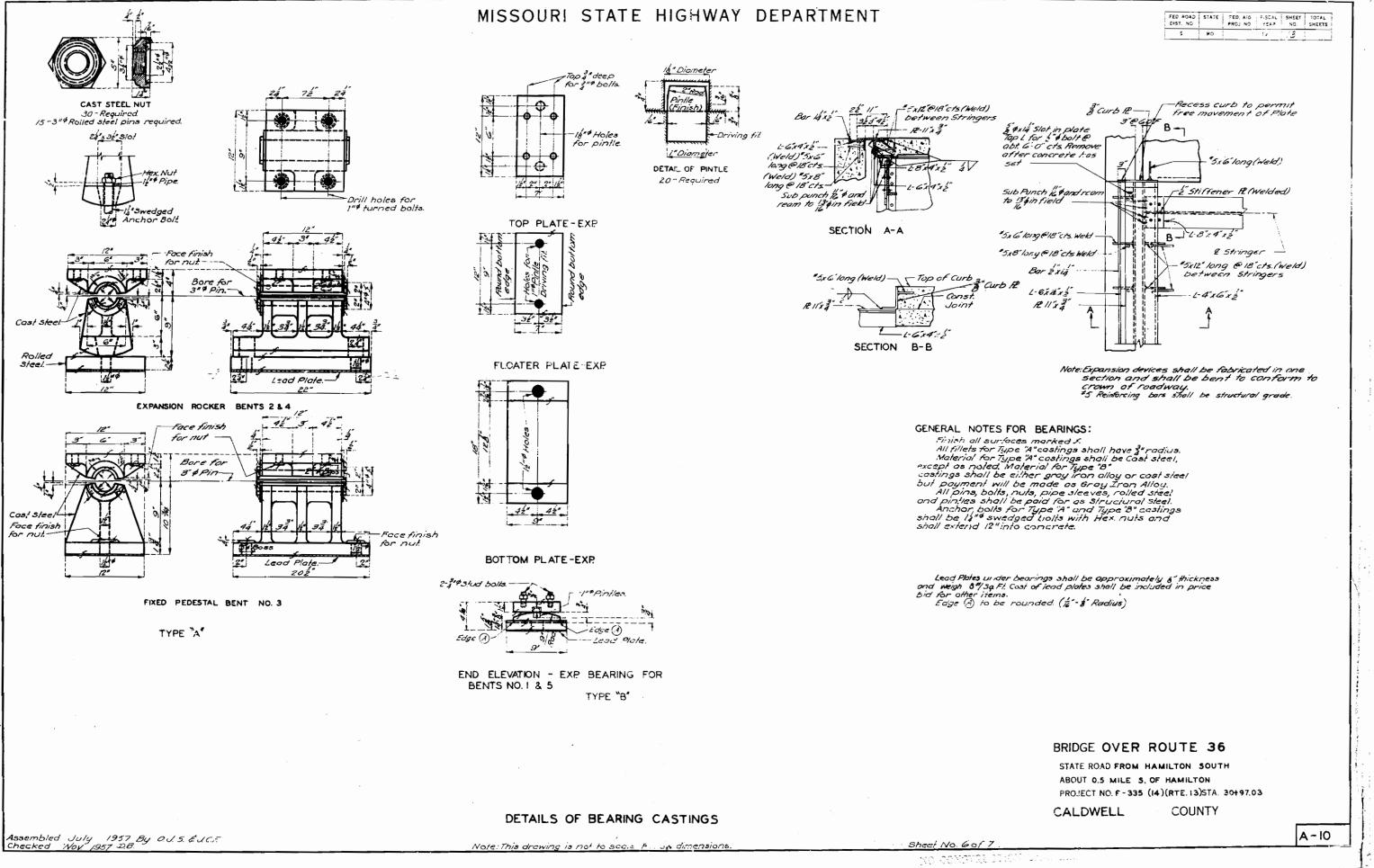
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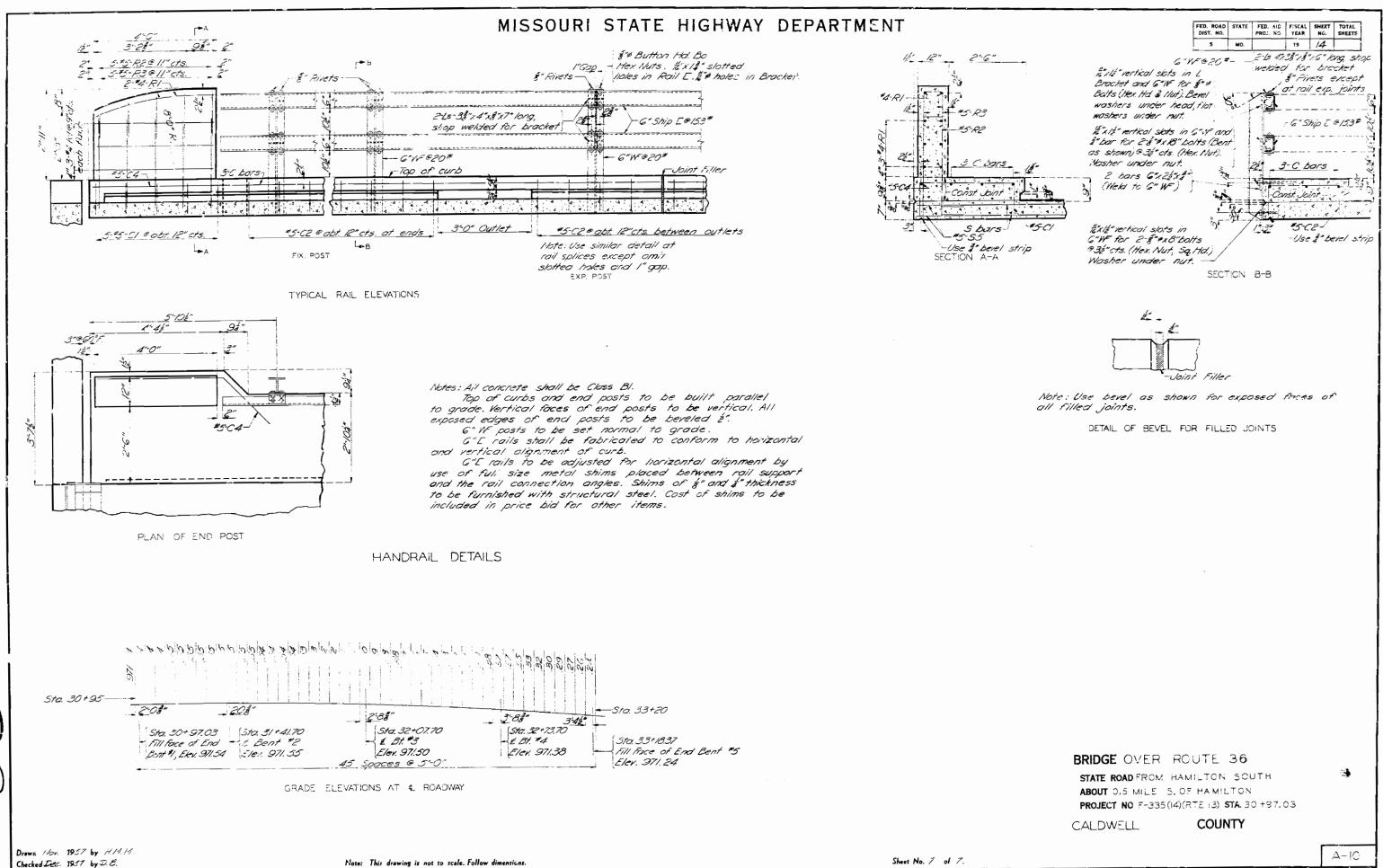


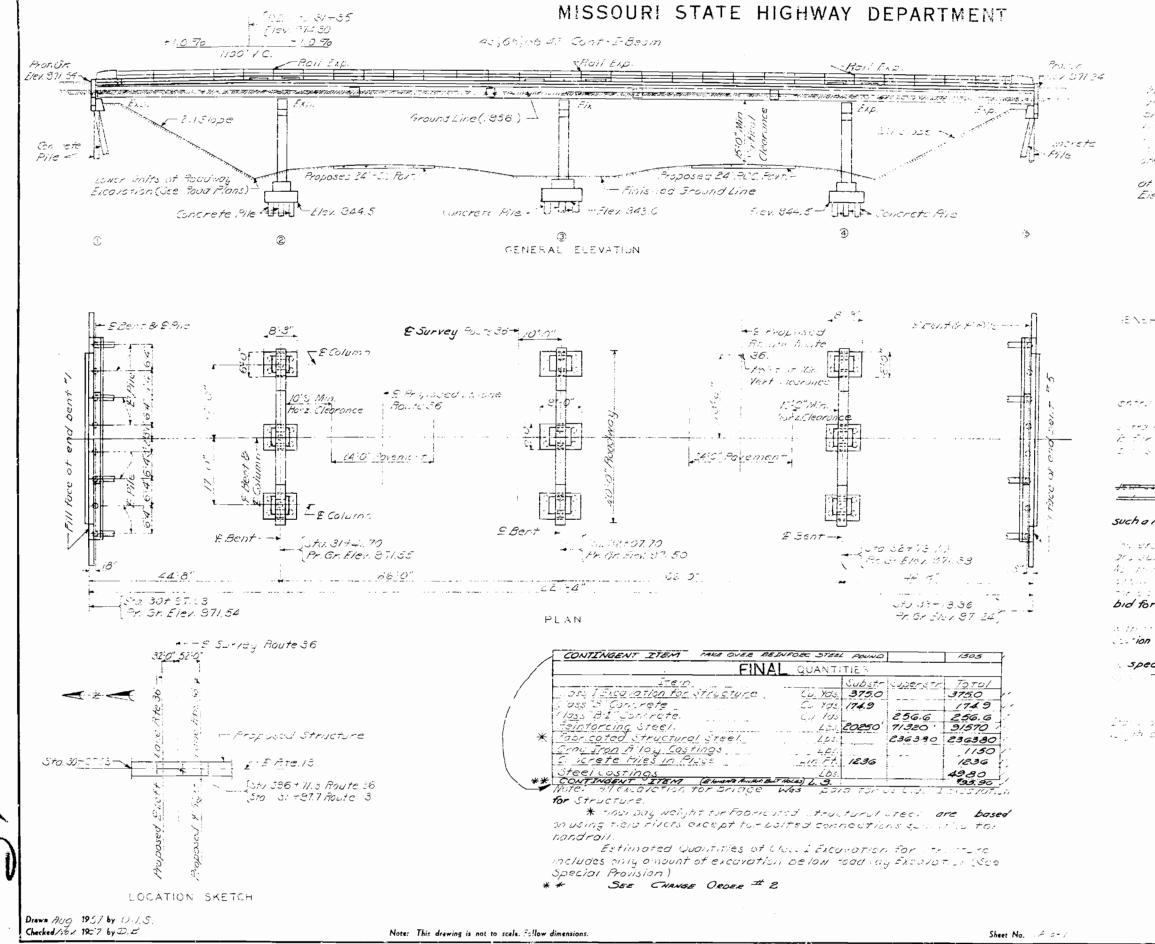




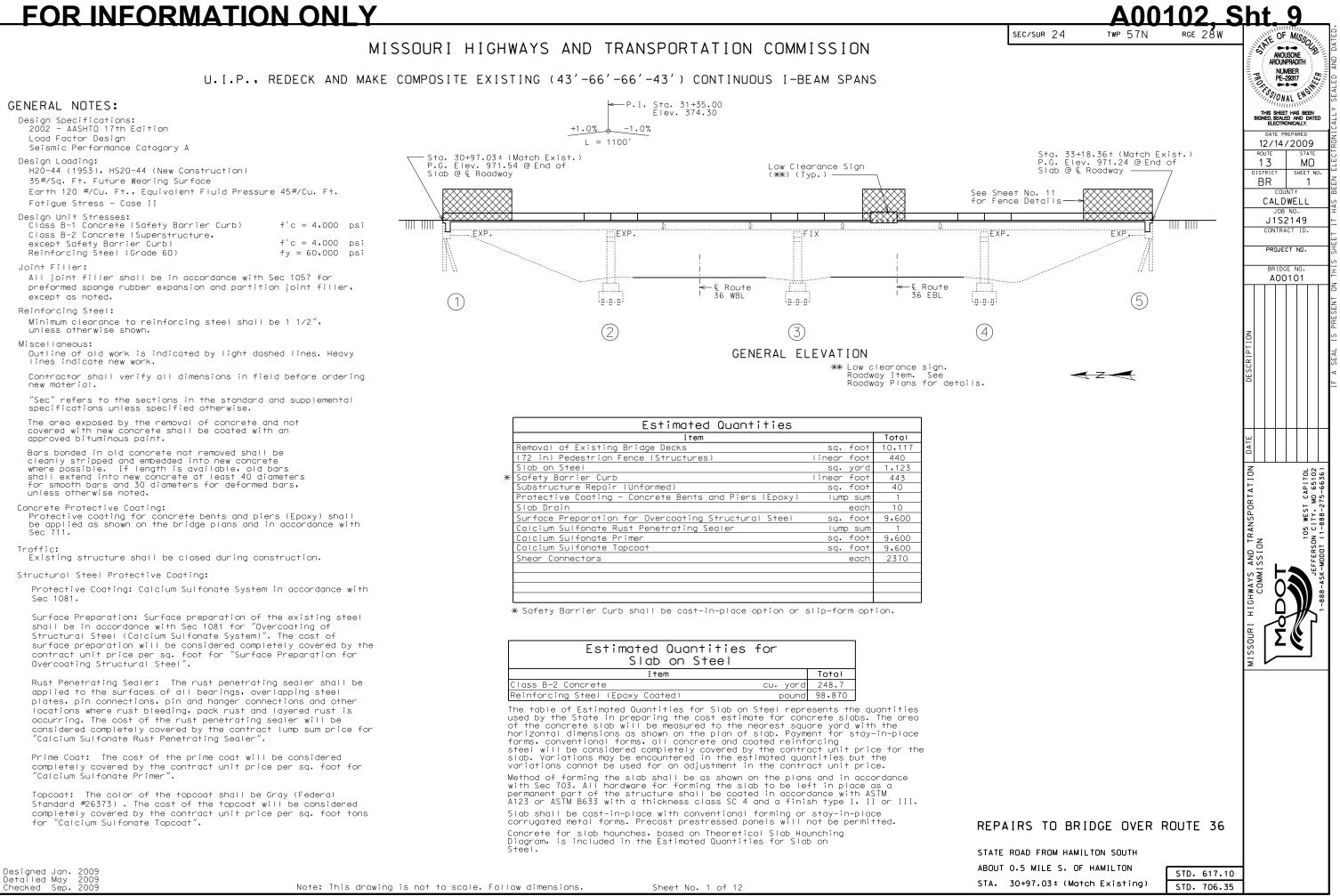


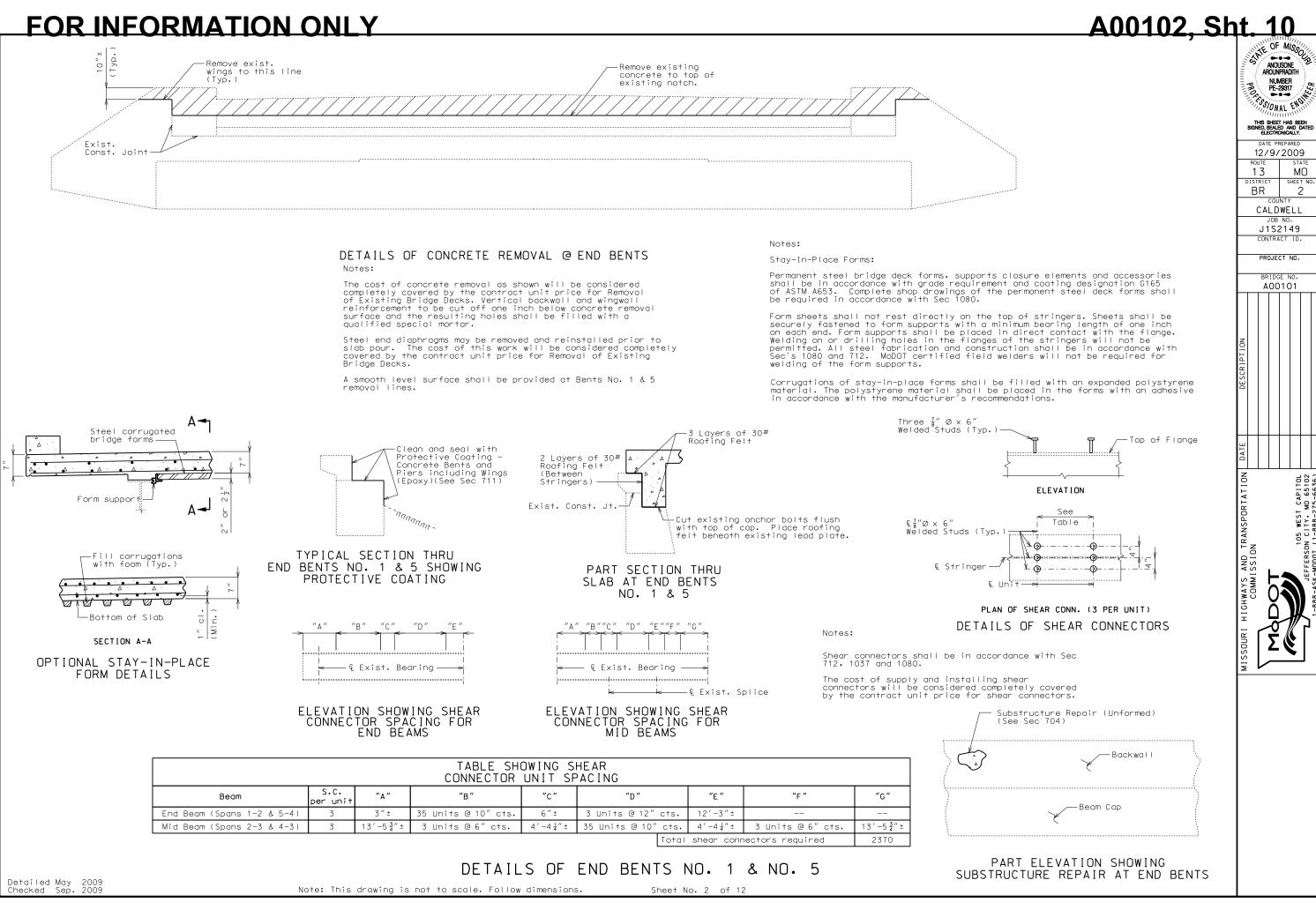
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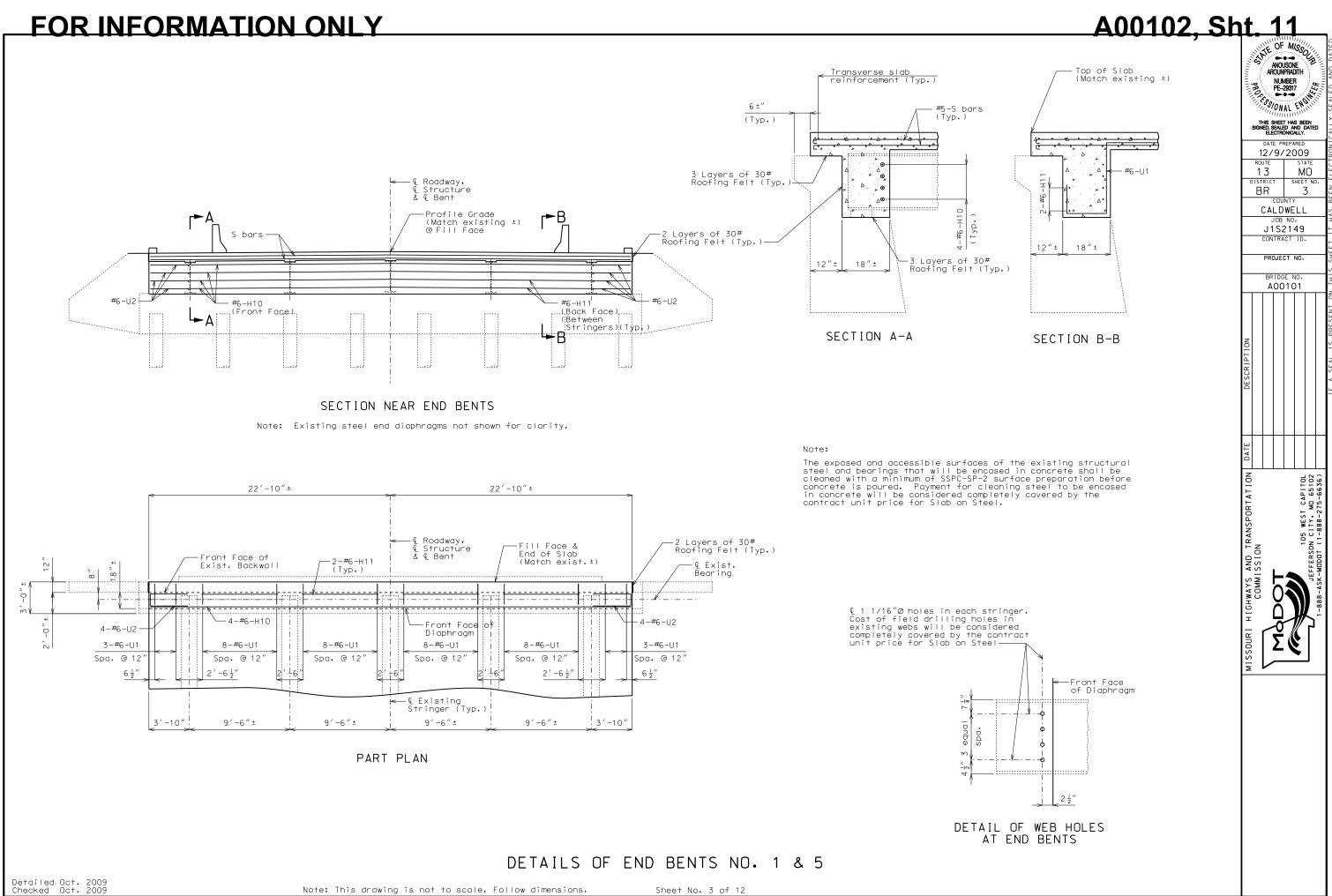


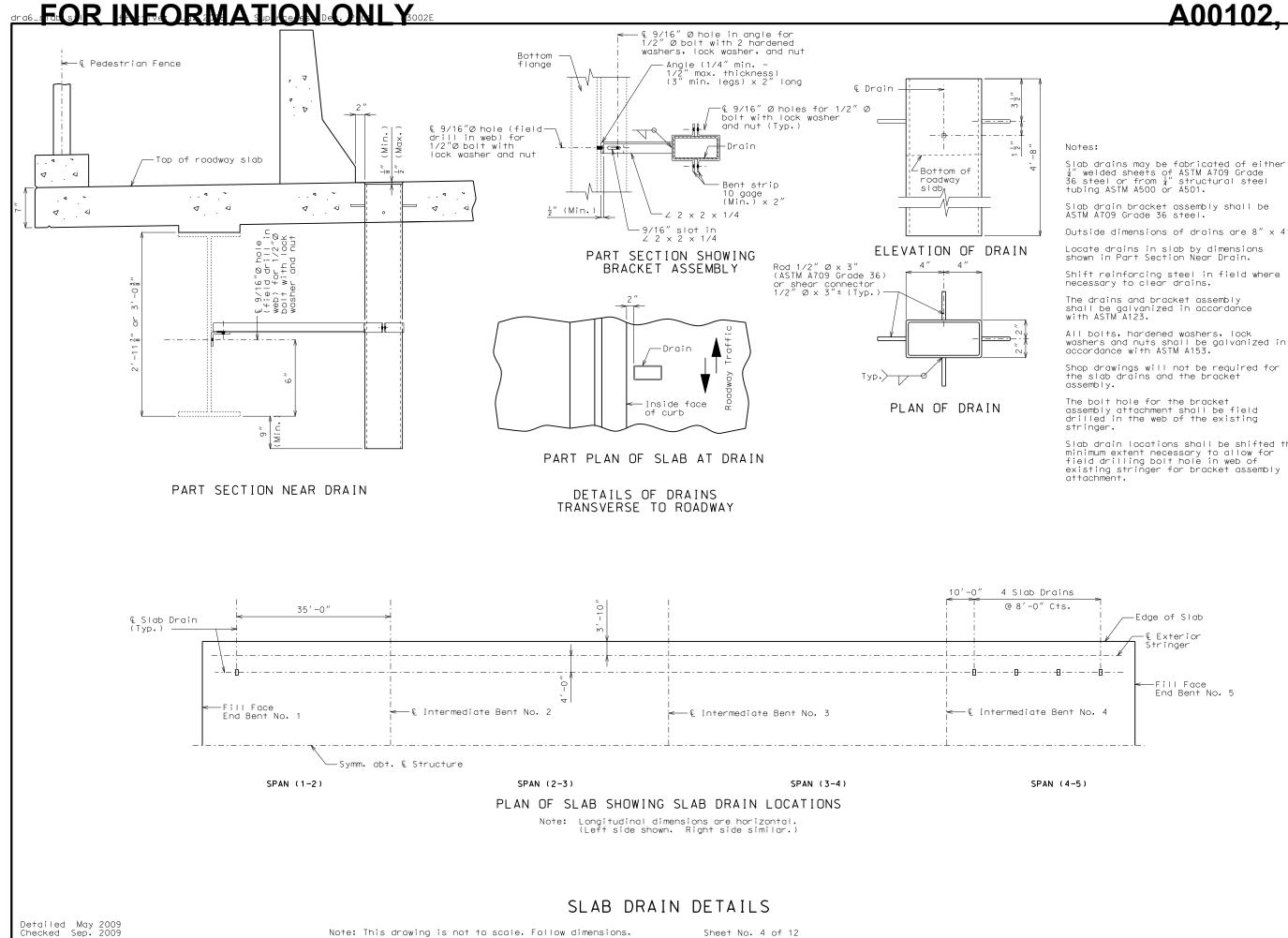


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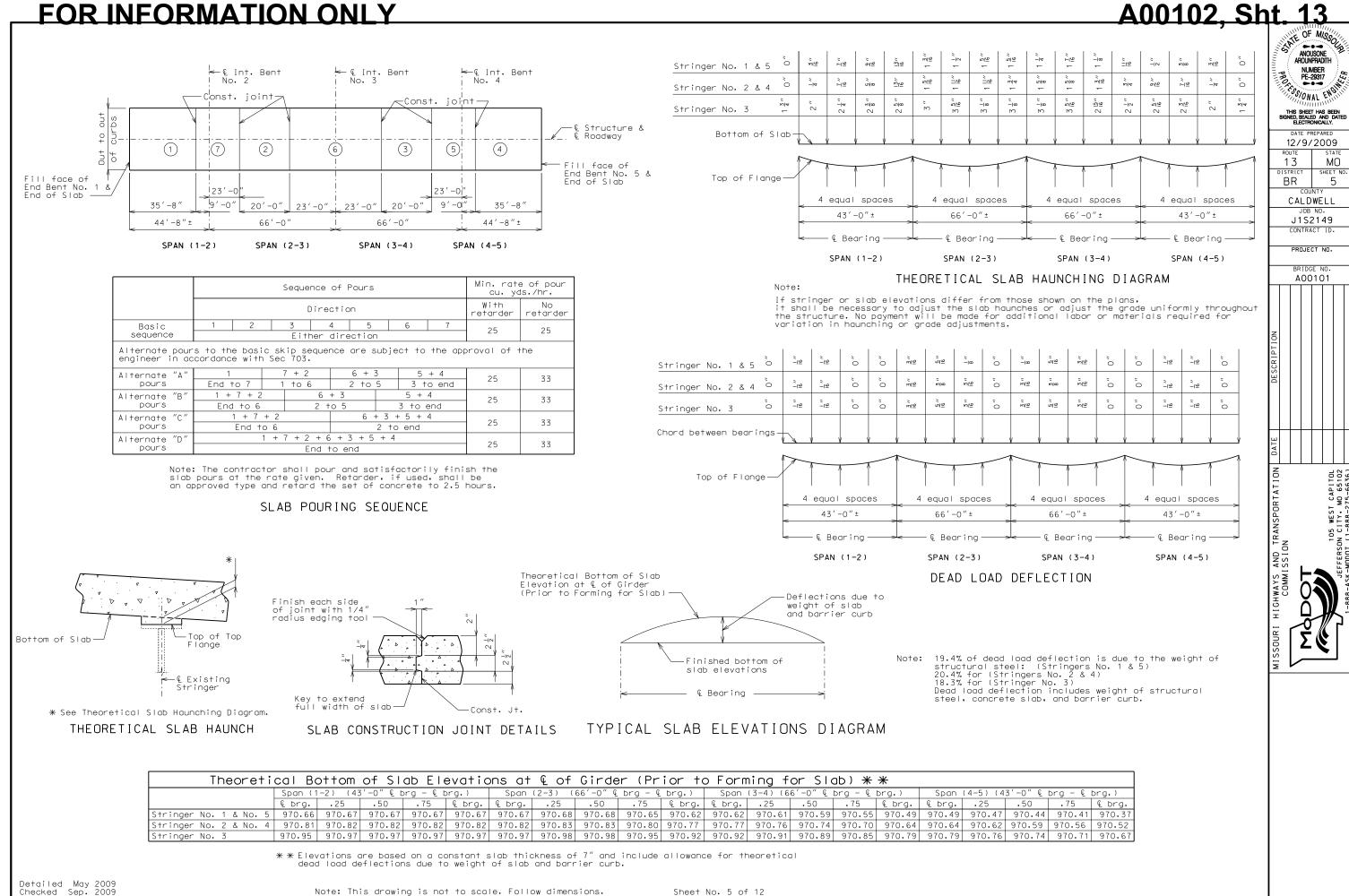




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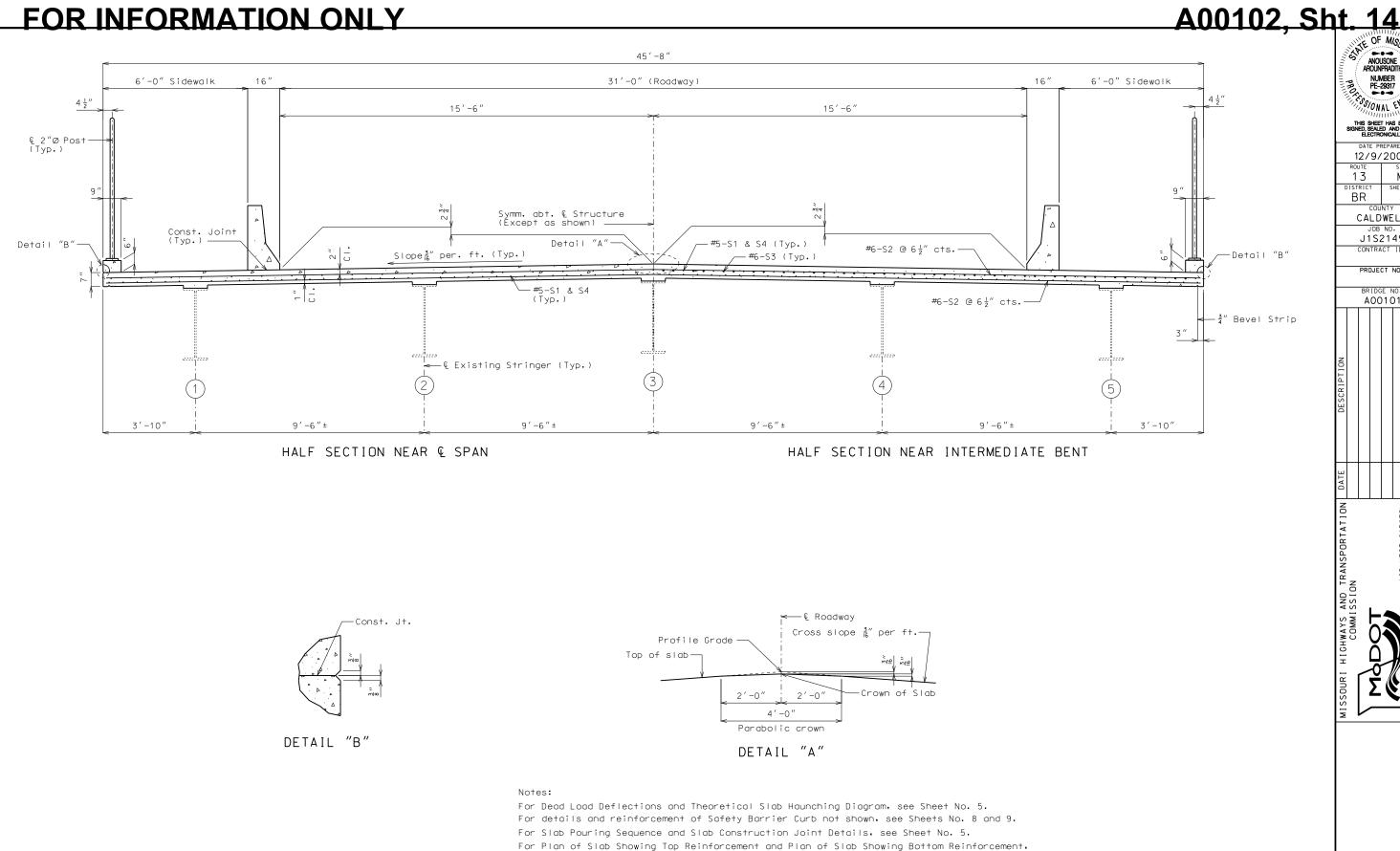
- Slab drain bracket assembly shall be ASTM A709 Grade 36 steel.
- Outside dimensions of drains are 8" x 4".
- Shift reinforcing steel in field where
- shall be galvanized in accordance with ASTM A123.
- washers and nuts shall be galvanized in accordance with ASTM A153.
- Shop drawings will not be required for the slab drains and the bracket
- The bolt hole for the bracket assembly attachment shall be field drilled in the web of the existing
- Slab drain locations shall be shifted the minimum extent necessary to allow for field drilling bolt hole in web of existing stringer for bracket assembly

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

Sheet No. 5 of 12



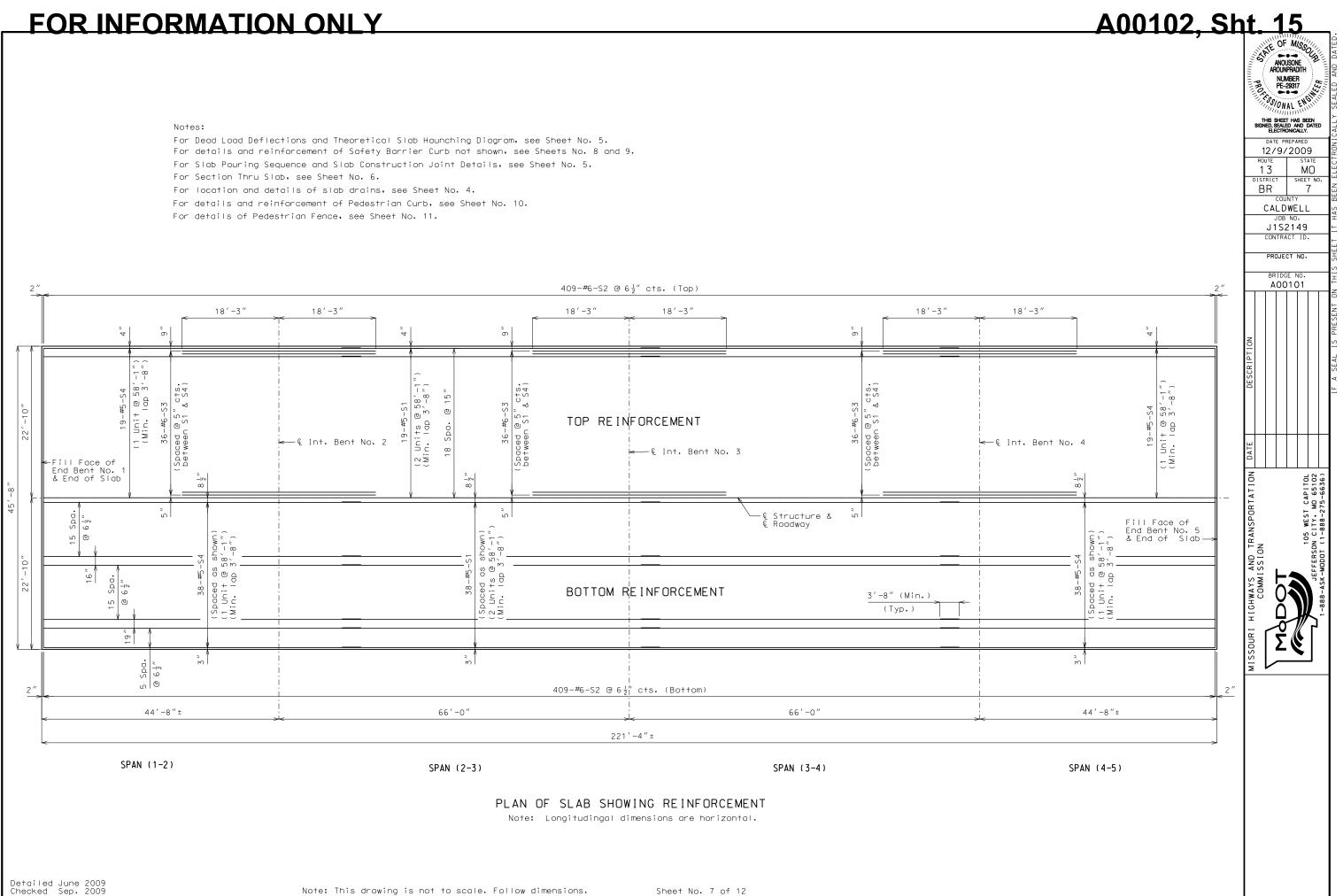
see Sheet No. 7.

For location and details of slab drains, see Sheet No. 4.

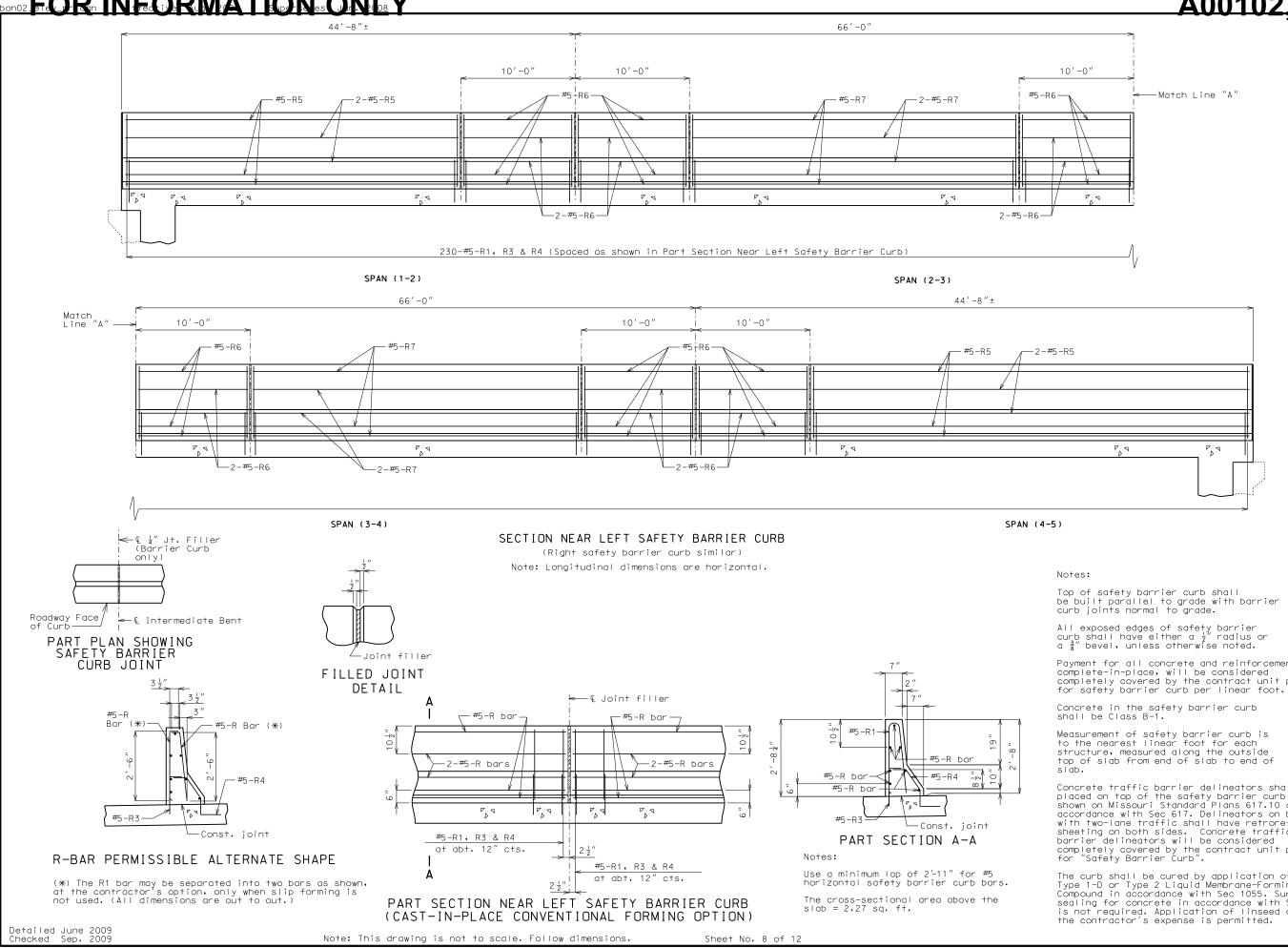
For details and reinforcement of Pedestrian Curb, see Sheet No. 10.

For details of Pedestrian Fence, see Sheet No. 11.

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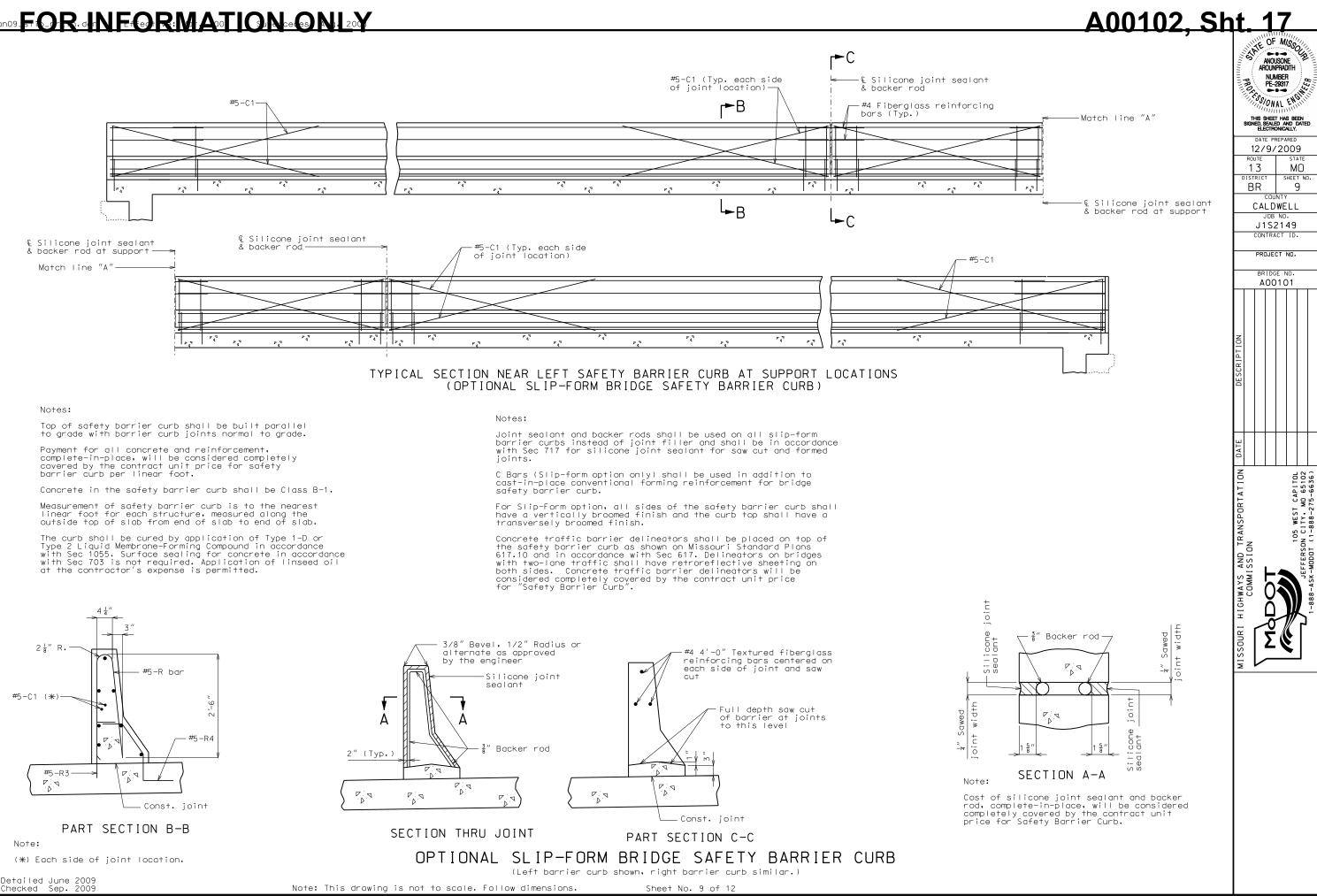
Payment for all concrete and reinforcement, complete-in-place, will be considered completely covered by the contract unit price

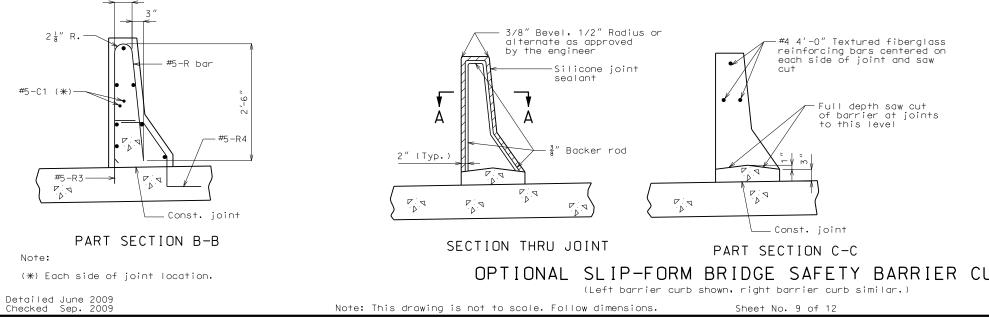
Concrete traffic barrier delineators shall be placed on top of the safety barrier curb as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for "Safety Barrier Curb".

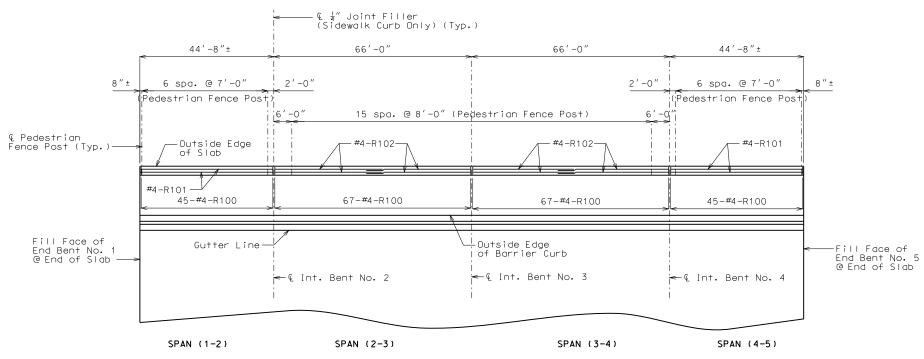
The curb shall be cured by application of Type 1-D or Type 2 Liquid Membrane-Forming Compound in accordance with Sec 1055. Surface sealing for concrete in accordance with Sec 703 is not required. Application of linseed oil at the contractor's expense is permitted.

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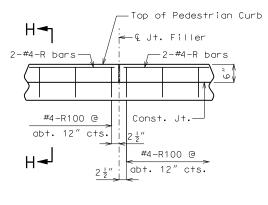




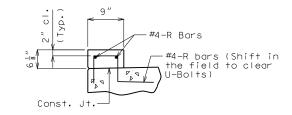


PART PLAN SHOWING PEDESTRIAN CURB & FENCE POST SPACING

(Longitudinal dimensions are horizontal.)



PART ELEVATION OF PEDESTRIAN CURB ON SLAB



SECTION H-H

Note: The cross-sectional area above the slab = 0.38 sq. ft.

Pedestrian Curb Notes:

Top of the pedestrian curb shall be built parallel to grade with curb joints normal to grade.

All exposed edges of the pedestrian curb shall have either a $\frac{1}{2}''$ radius or a $\frac{3}{8}''$ bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete-in-place, will be considered completely covered by the contract unit price for slab on steel.

Concrete in the pedestrian curb shall be Class B-1.

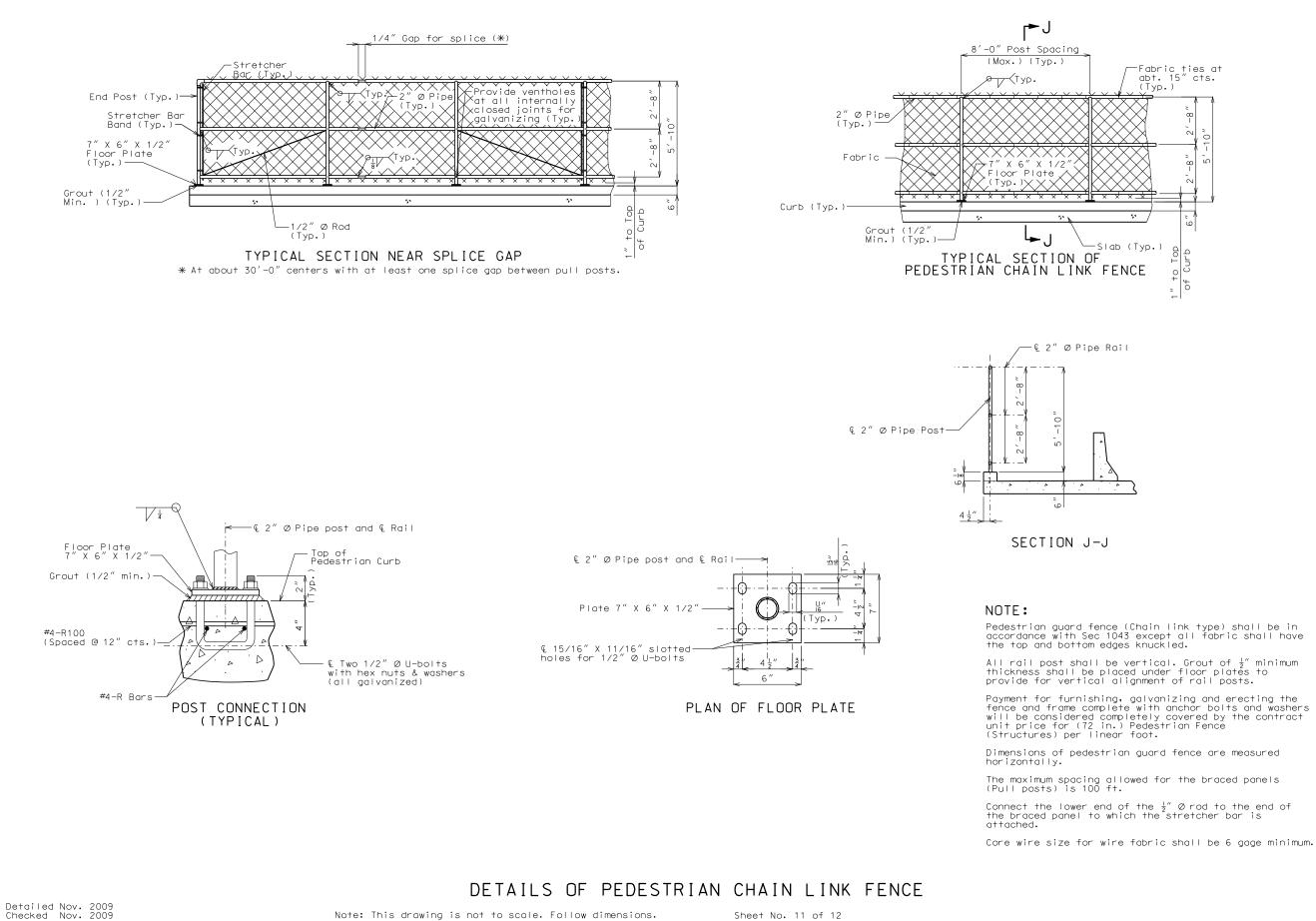
Measurement of the pedestrian curb is to the nearest linear foot for each structure, measured along the outside top of slab from end of curb to end of curb.

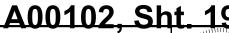
The curb shall be cured by application of Type 1-D or Type 2 Liquid Membrane-Forming Compound in accordance with Sec 1055. Surface sealing for concrete in accordance with Sec 703 will not be permitted.

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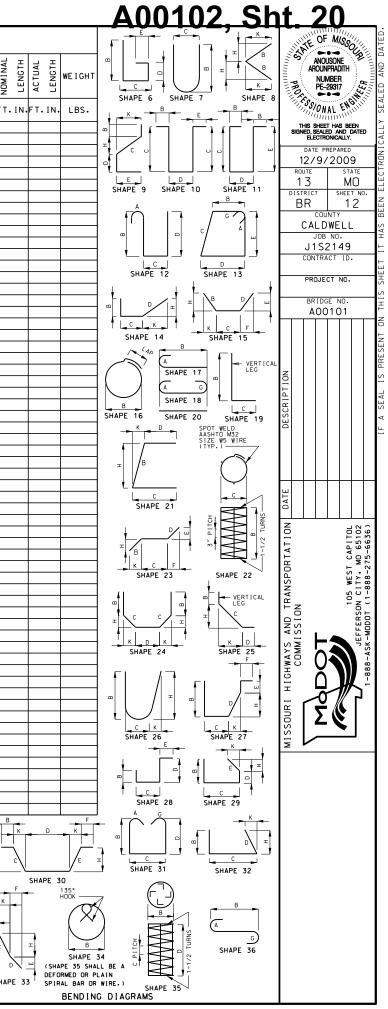
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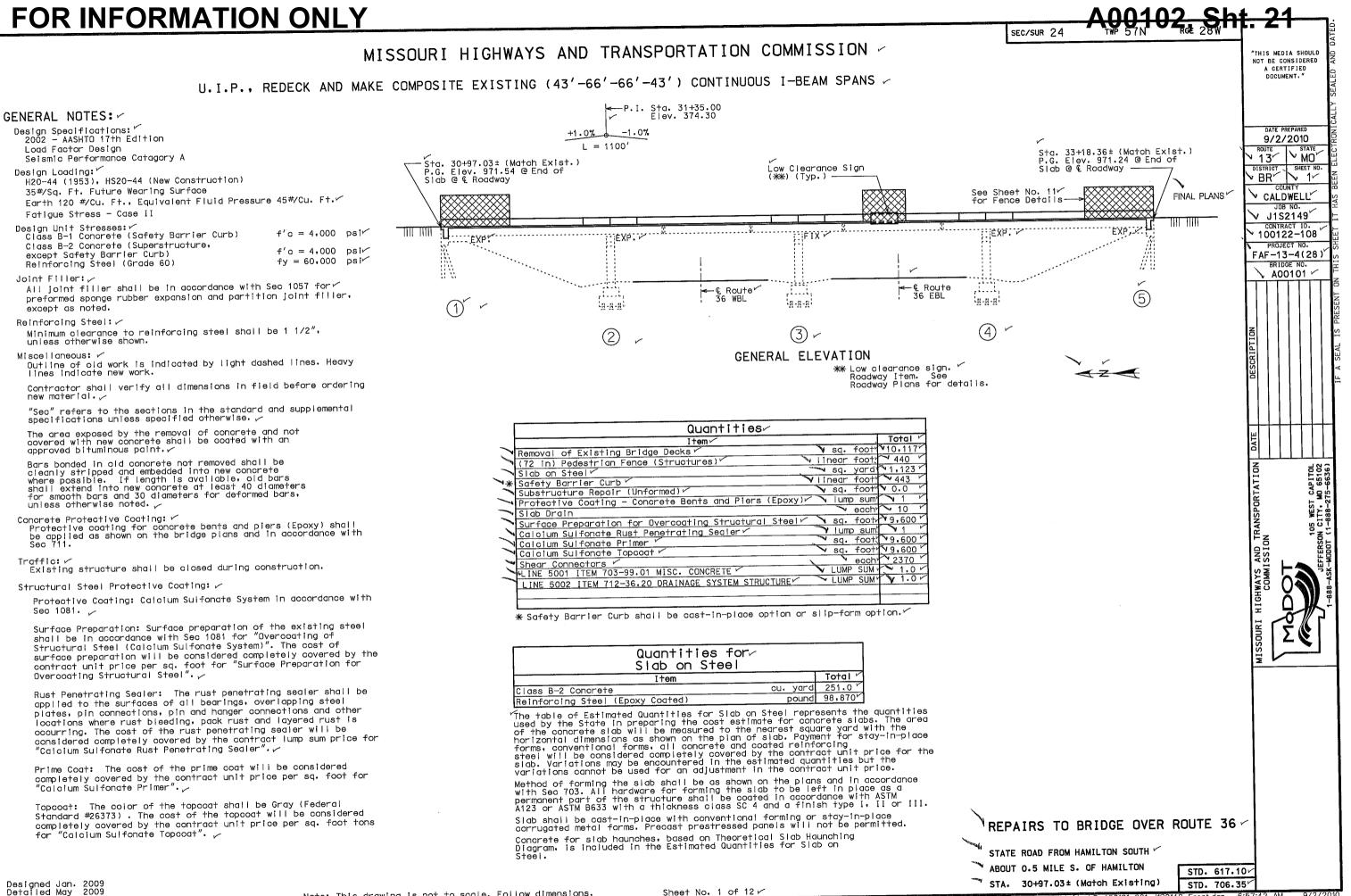




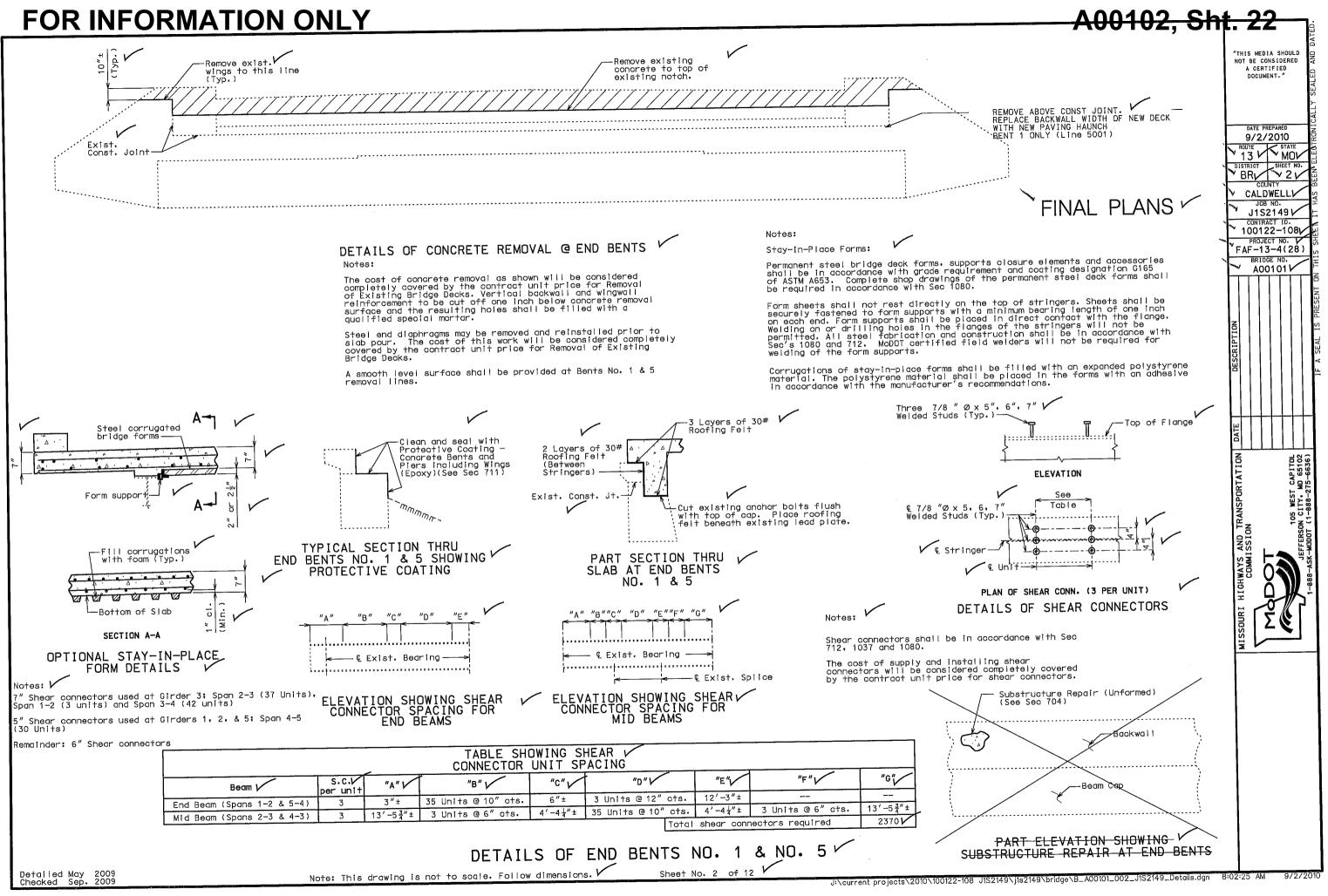
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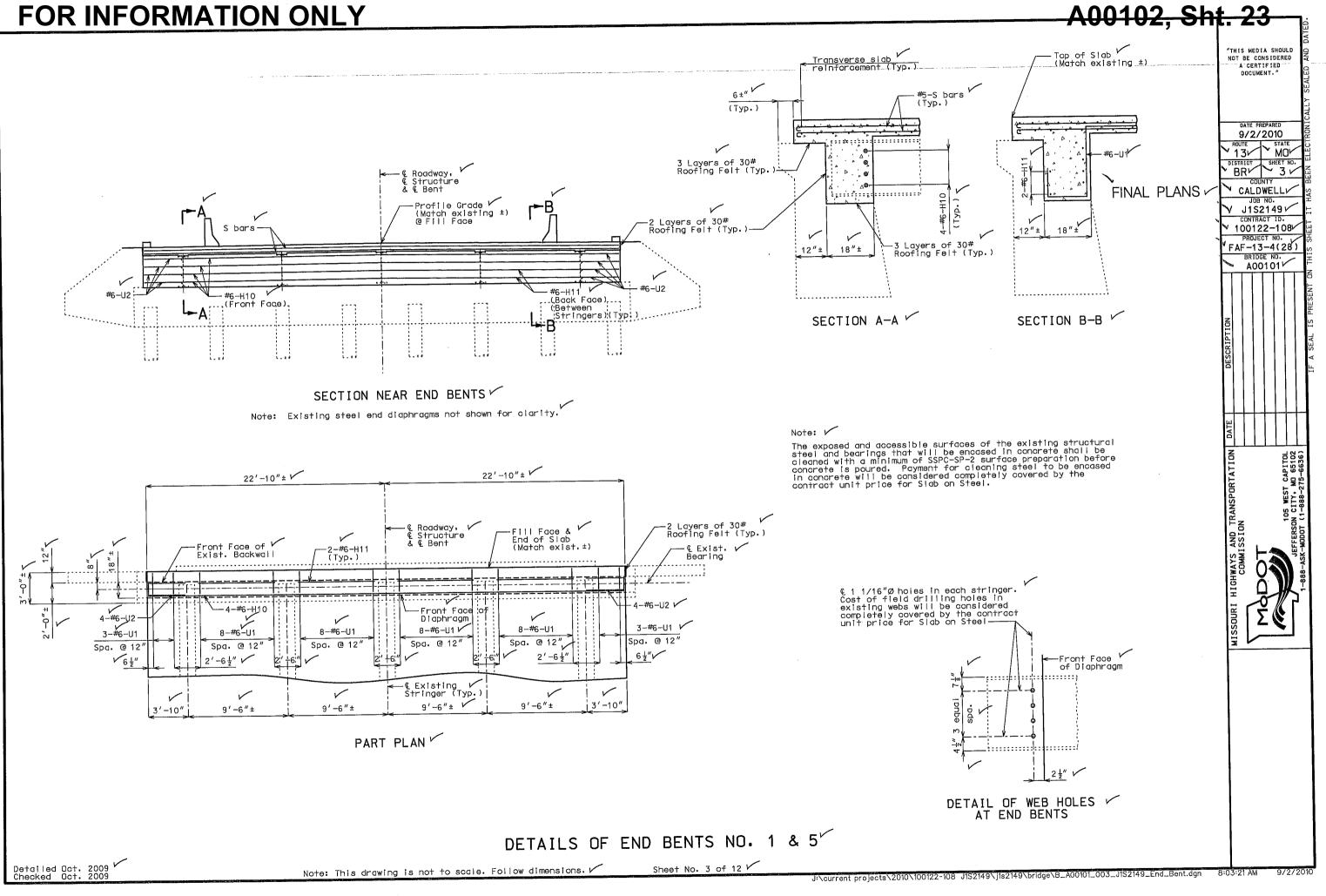


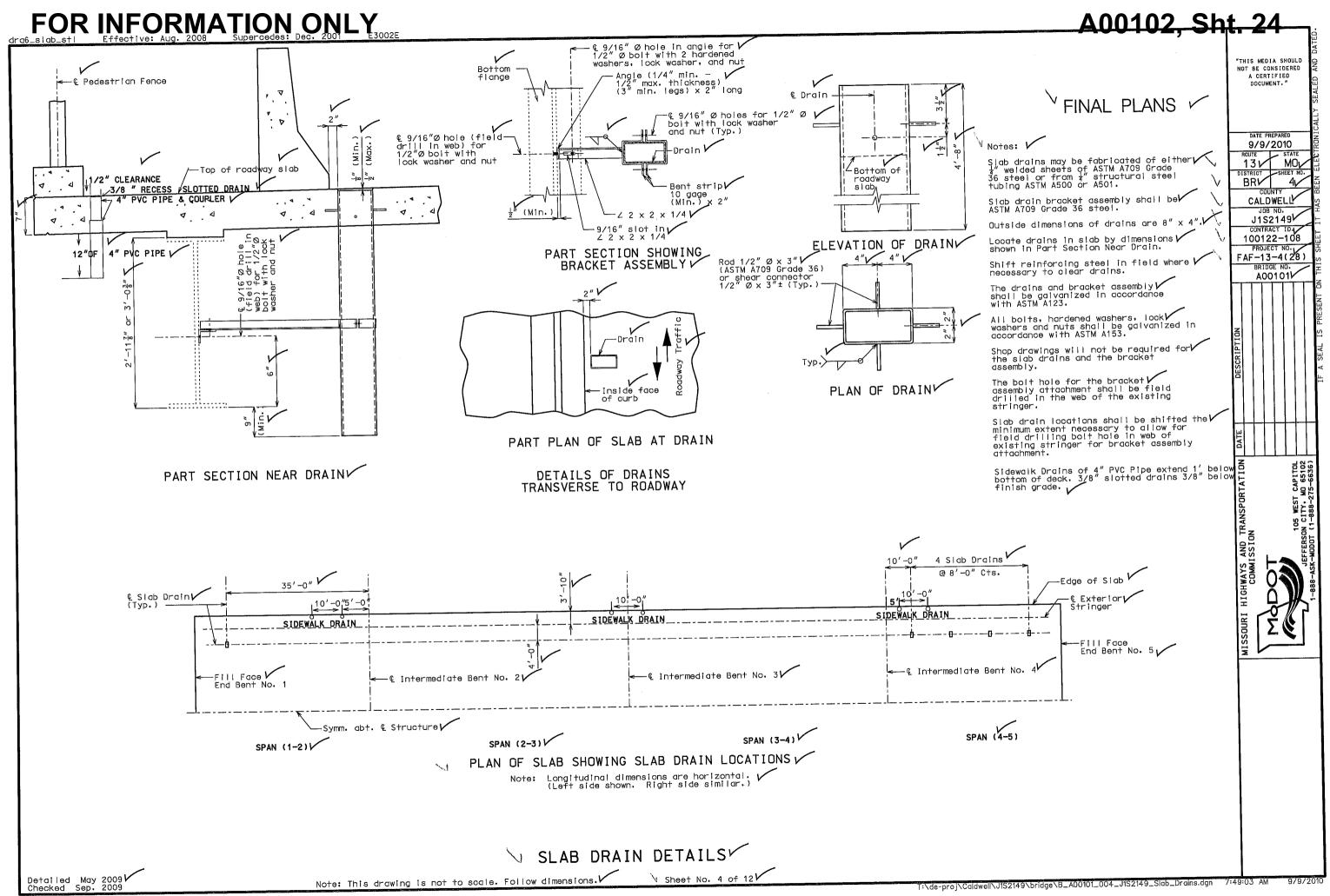


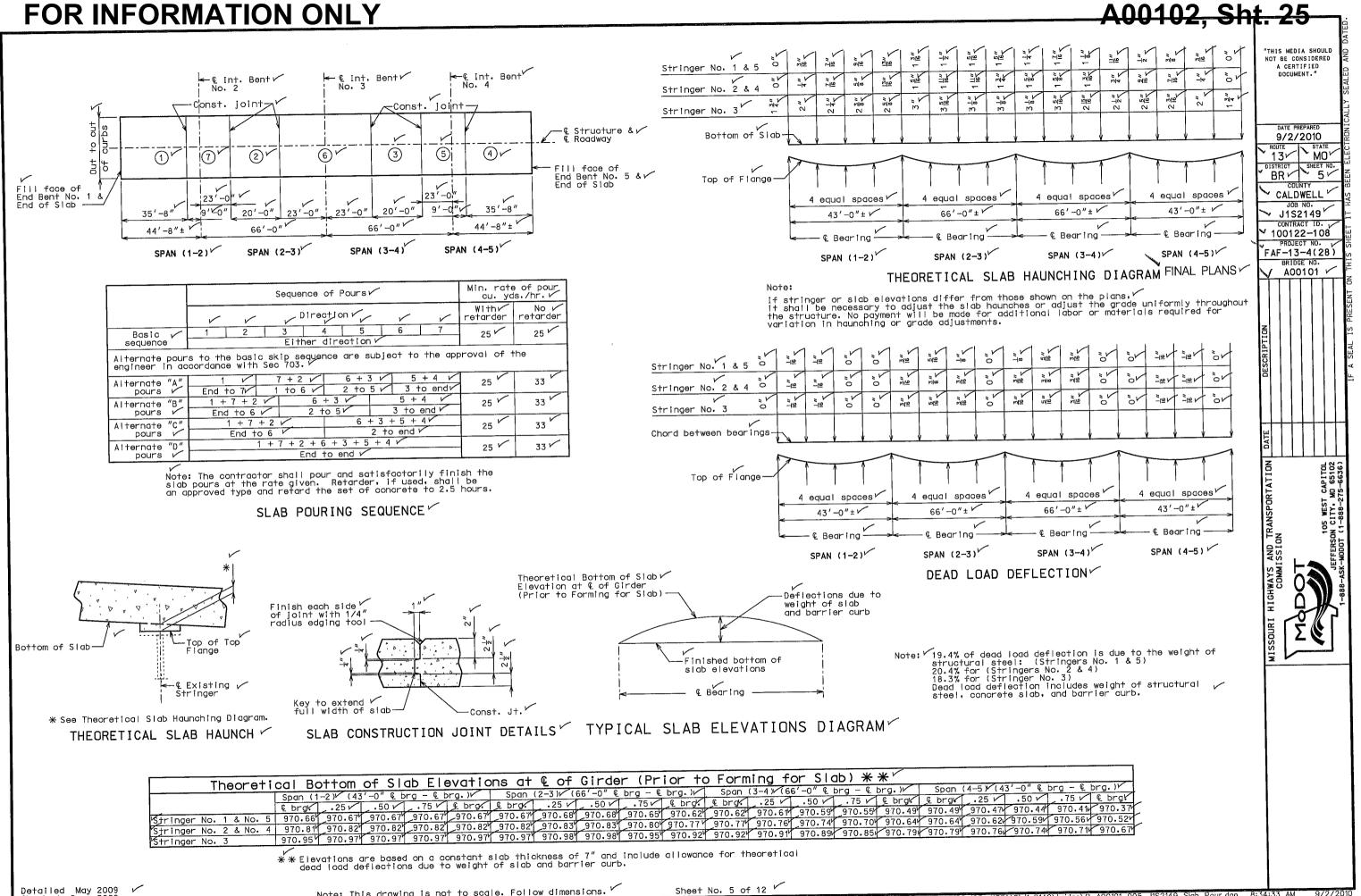
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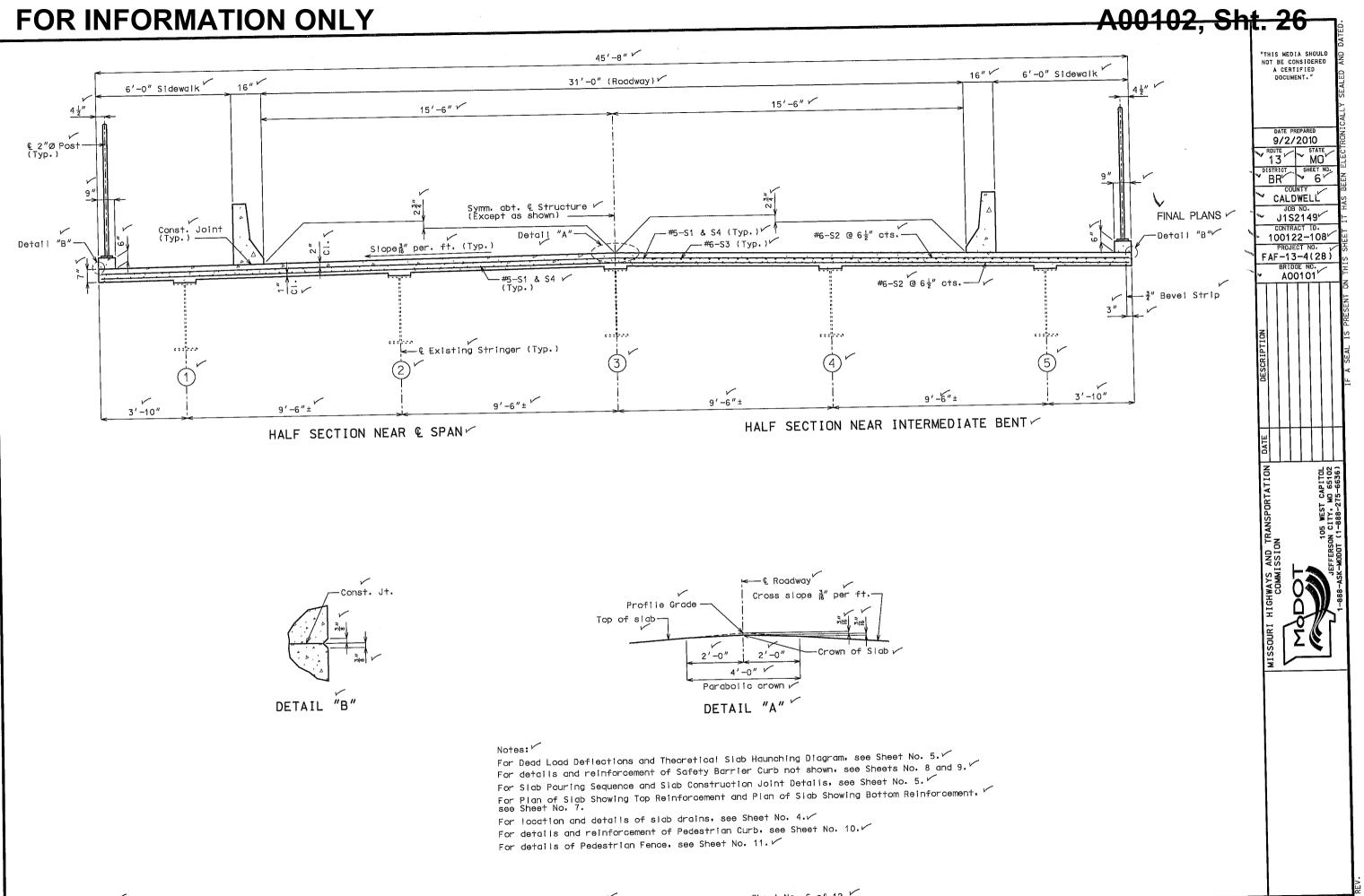


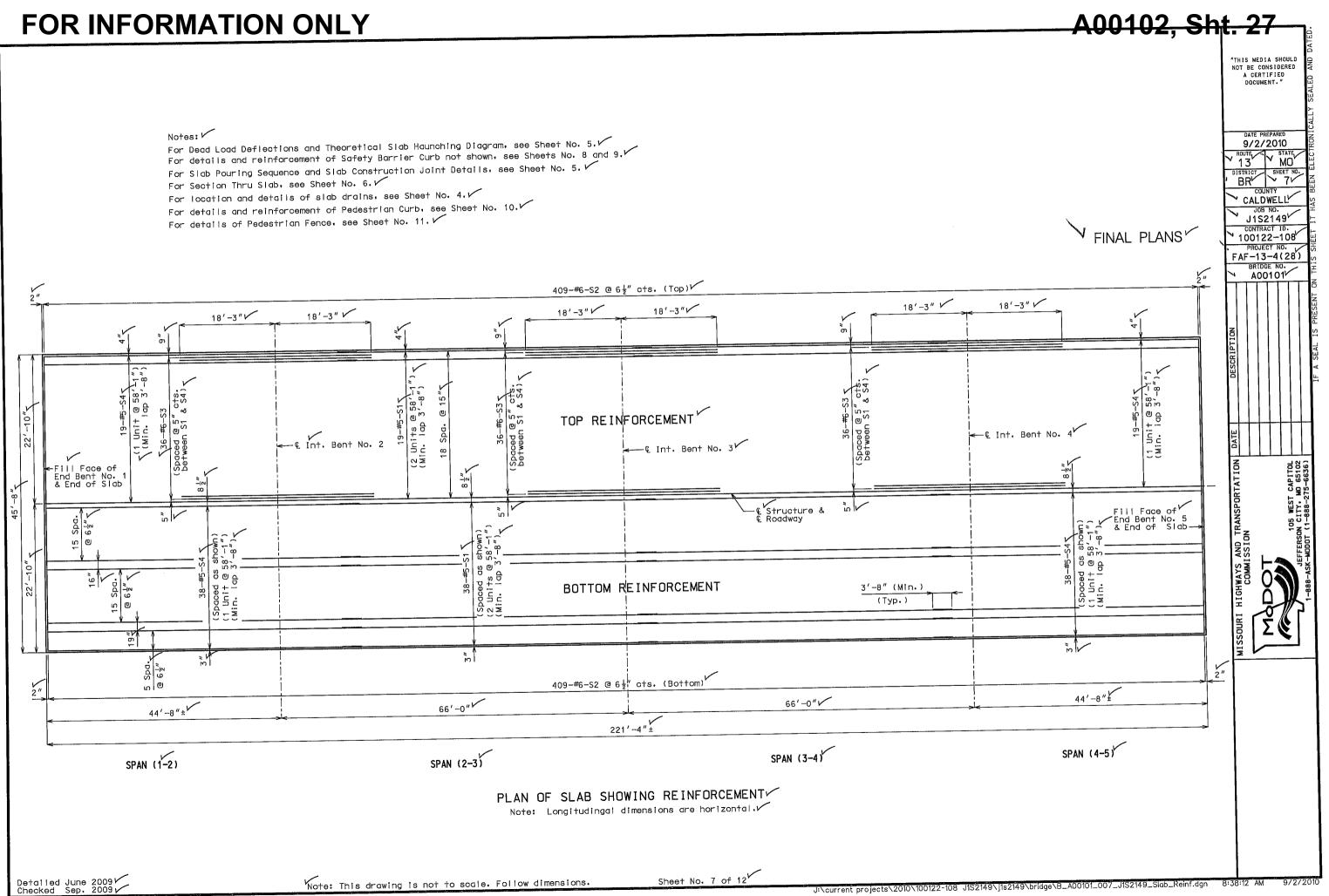


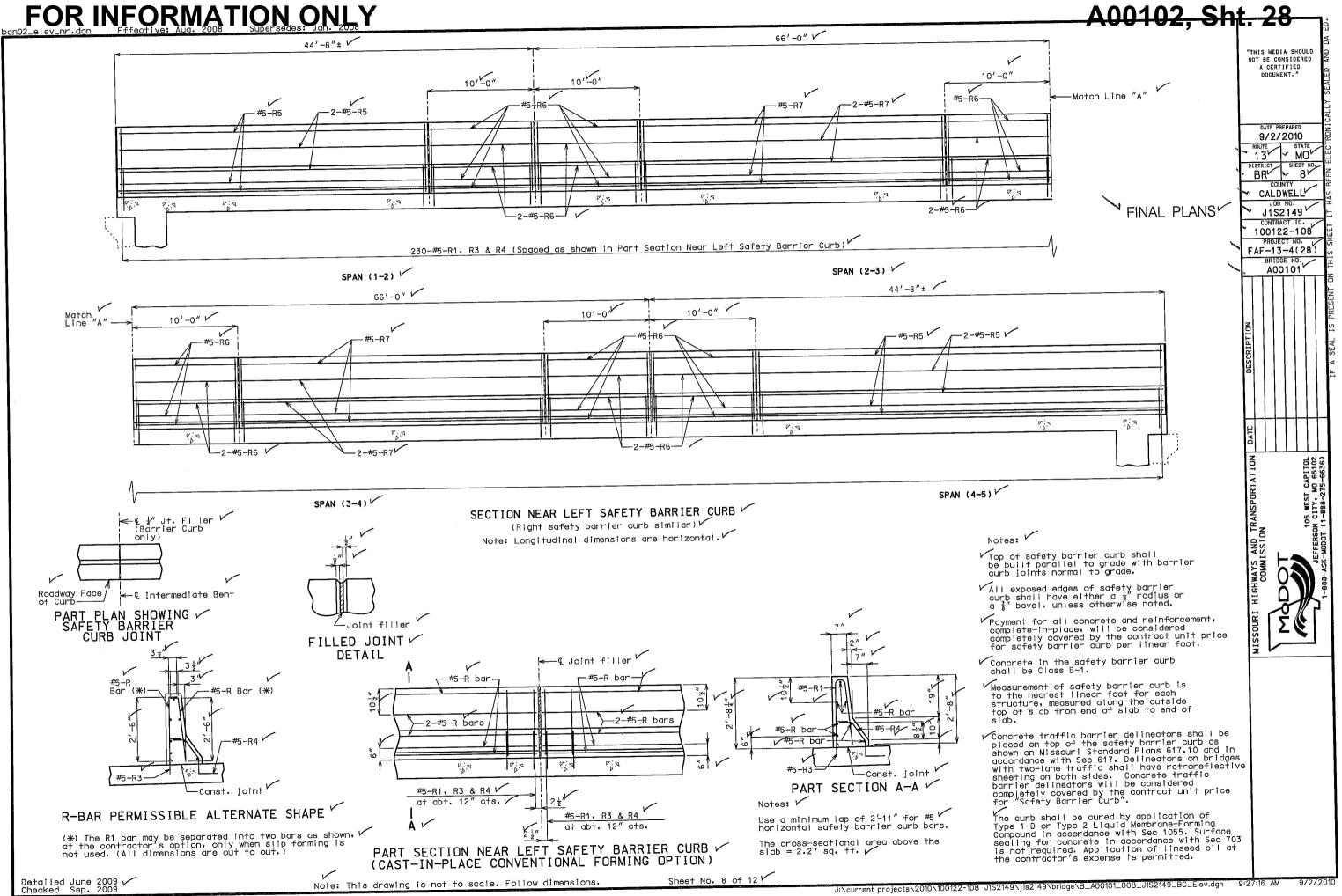
Detailed May 2009 Checked Sep. 2009

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

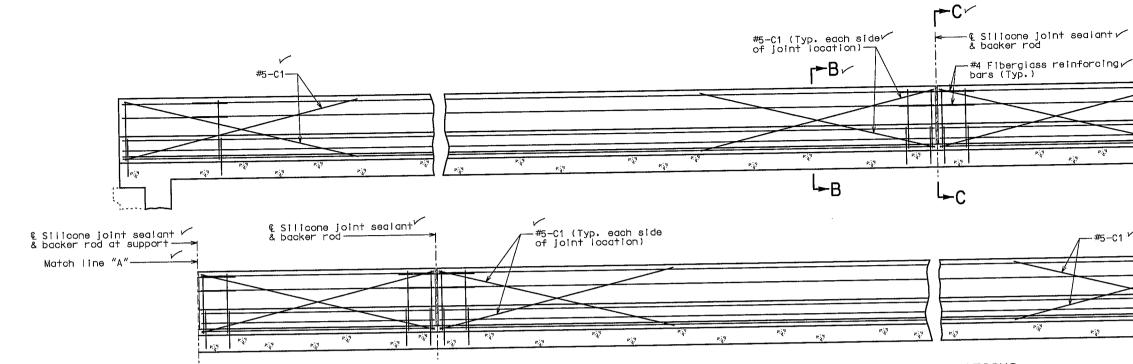
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FOR INFORMATION ONLY ban09_slip_nr_in.dan



TYPICAL SECTION NEAR LEFT SAFETY BARRIER CURB AT SUPPORT LOCATIONS (OPTIONAL SLIP-FORM BRIDGE SAFETY BARRIER CURB)

Motes:

rfop of safety barrier curb shall be built parallel to grade with barrier curb joints normal to grade.

Payment for all concrete and reinforcement, complete-in-place, will be considered completely covered by the contract unit price for safety barrier curb per linear foot.

Concrete in the safety barrier curb shall be Class B-1.

Measurement of safety barrier curb is to the nearest linear foot for each structure, measured along the outside top of slab from end of slab to end of slab.

The curb shall be cured by application of Type 1-D or Type 2 Liquid Membrane-Forming Compound in accordance with Sec 1055. Surface sealing for concrete in accordance with Sec 703 is not required. Application of linseed oll at the contractor's expense is permitted.

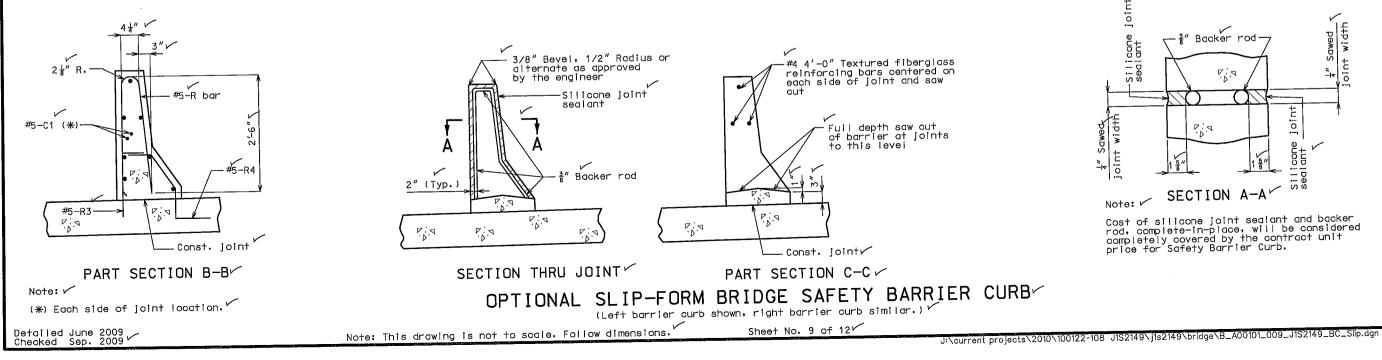
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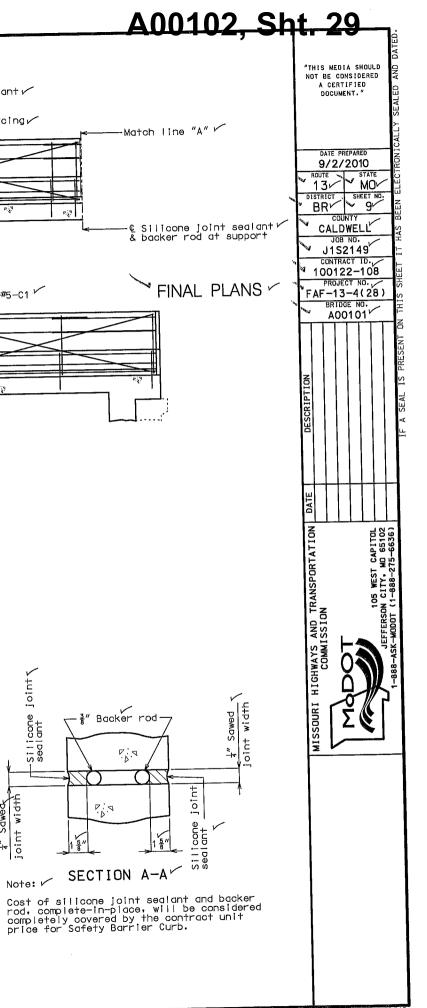
Joint sealant and backer rods shall be used on all slip-form barrier curbs instead of joint filler and shall be in accordance with Sec 717 for silicone joint sealant for saw cut and formed ioints.

C Bars (Slip-form option only) shall be used in addition to cast-in-place conventional forming reinforcement for bridge safety barrier curb.

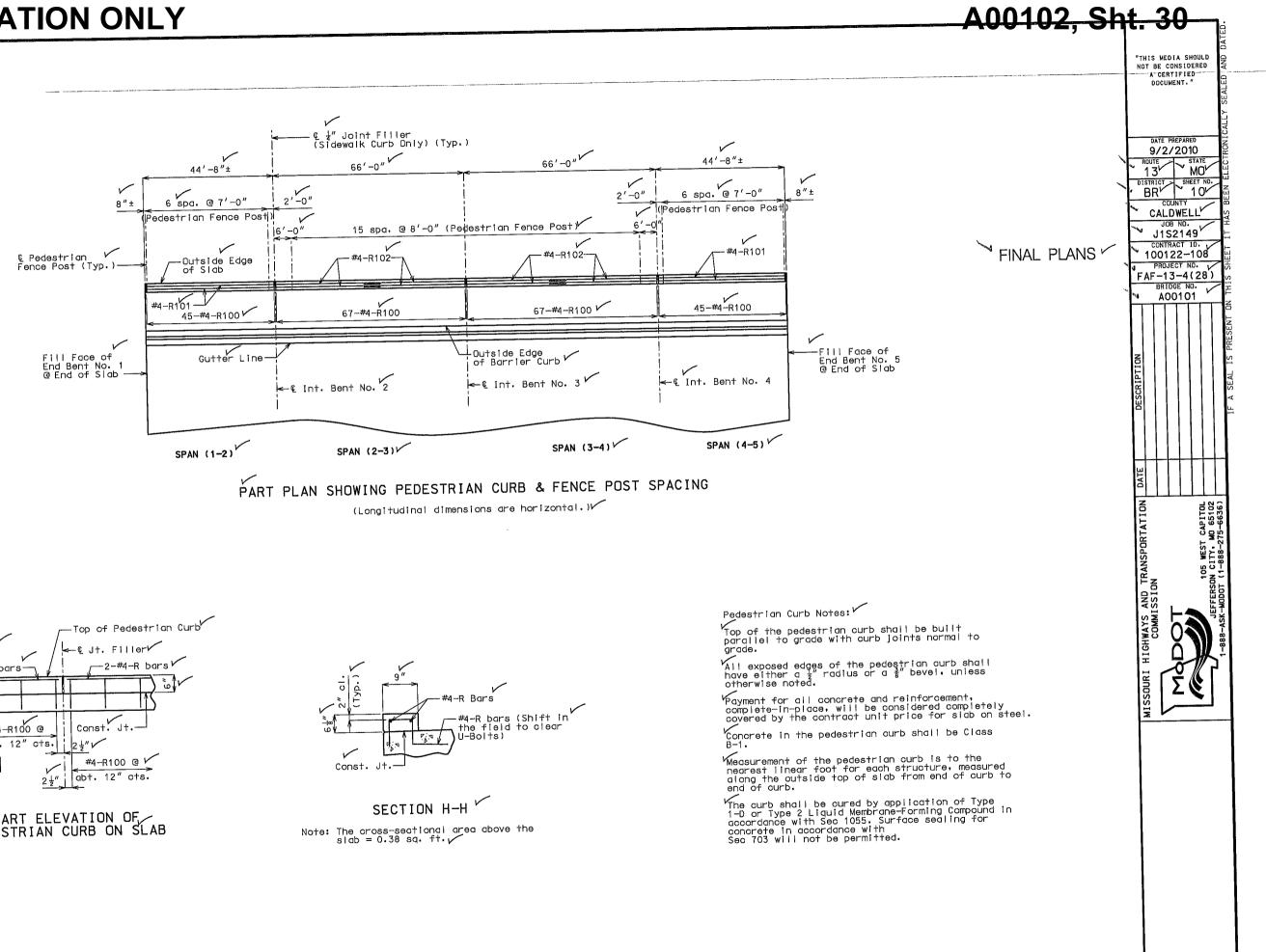
For Slip-Form option, all sides of the safety barrier curb shall have a vertically broomed finish and the curb top shall have a transversely broomed finish.

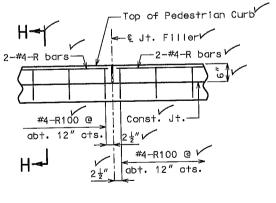
Concrete traffic barrier delineators shall be placed on top of the safety barrier curb as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for "Safety Barrier Curb".



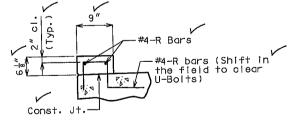


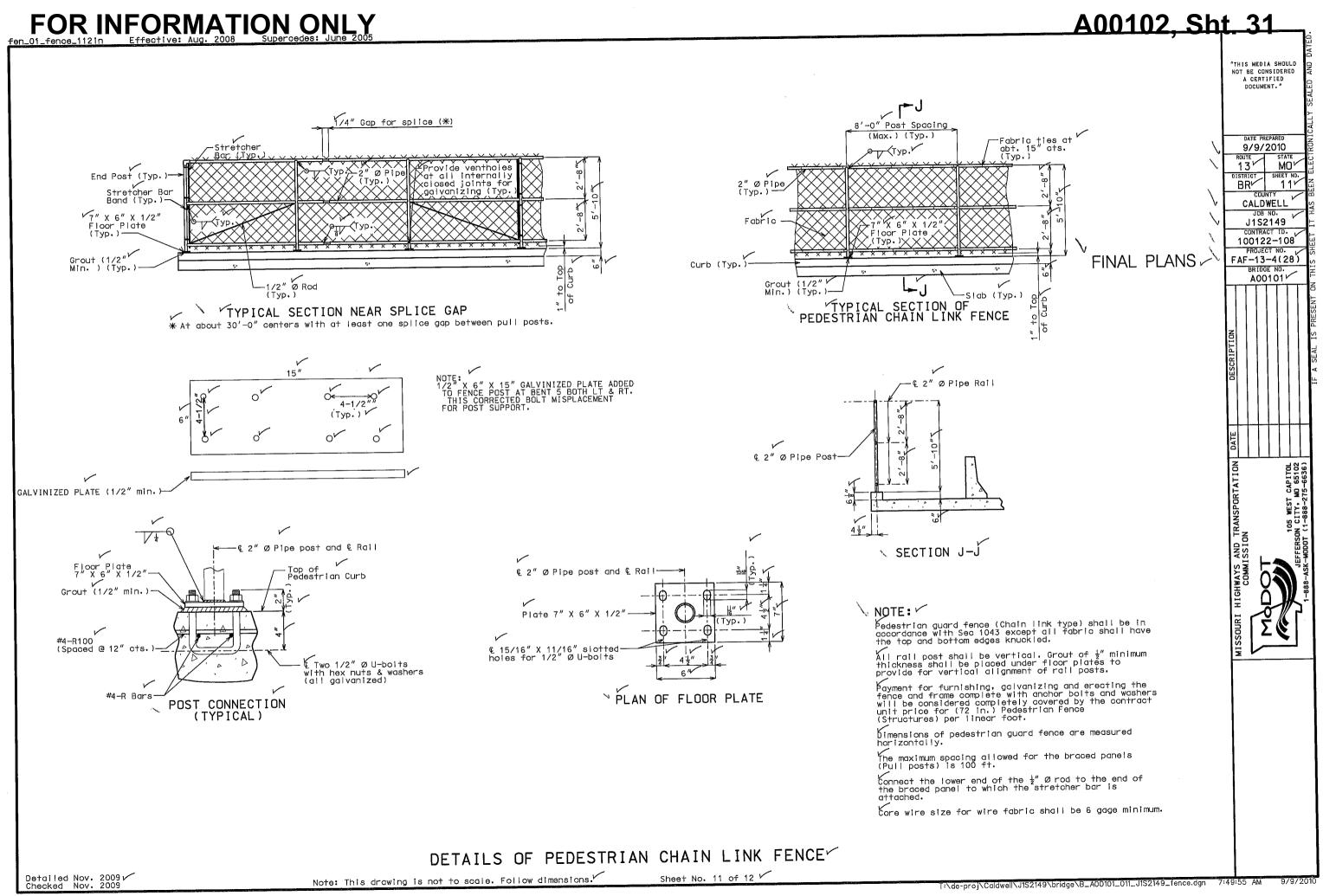
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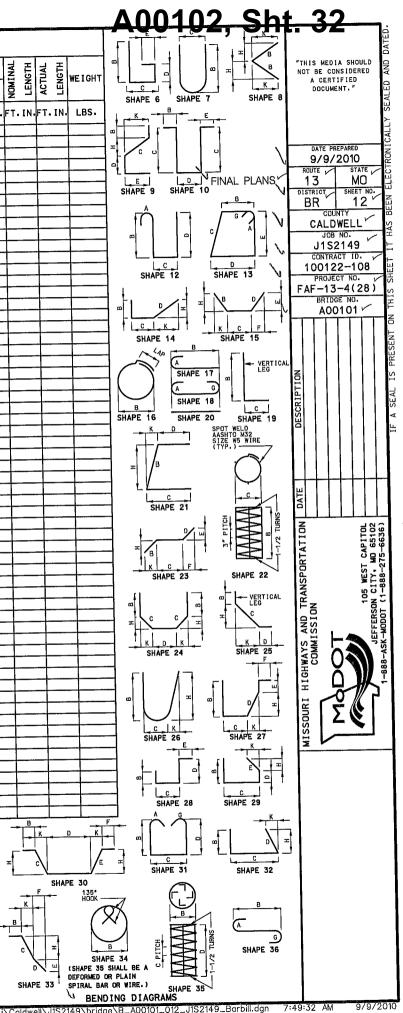


PART ELEVATION OF PEDESTRIAN CURB ON SLAB





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