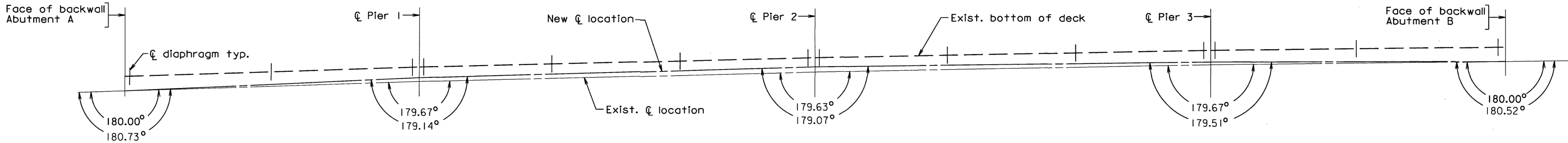
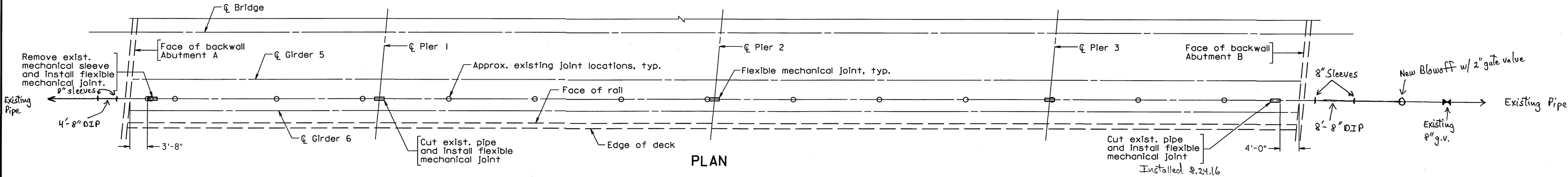
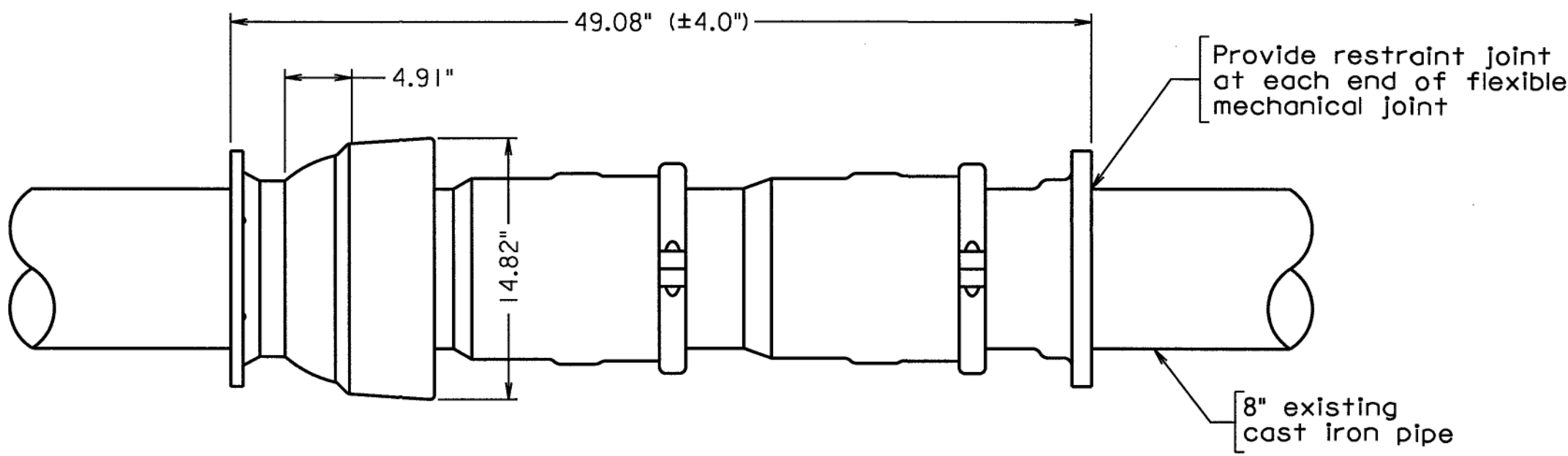


STATE	FEDERAL AID		STATE		SHEET NO.
	ROUTE	PROJECT	ROUTE	PROJECT	
VA.	—		0000	0000-128-376, B630	10



PROFILE

Note: Clevis hangers and diaphragms to remain.



FLEXIBLE MECHANICAL JOINT
Not to scale

Notes:

- Flexible mechanical joints shall be installed in the locations indicated on the drawings and shall be manufactured of ductile iron conforming to the material requirements of ASTM A536 and ANSI/AWWA C153/A21.53. Foundry certification of material shall be readily available upon request, and the mechanical joint shall conform to "Made in America" requirements.
- Each flexible mechanical joint shall be pressure tested prior to shipment against its own restraint to a minimum of 350 psi. A minimum 2:1 safety factor, determined from the published pressure rating, shall apply.
- Each flexible mechanical joint shall consist of an expansion joint designed and cast as an integral part of a ball and socket type flexible joint, having a minimum per ball deflection of 20° and 4-inches minimum expansion. Standardized mechanical joint end connections shall be available.
- All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating shall meet ANSI/NSF-61.
- Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of ANSI/AWWA C116/A21.16.
- Manufacturer's certification of compliance to the above standards and requirements shall be readily available upon request.
- Install flexible mechanical joint where shown on the Plan View. If not at a joint, cut existing pipe to install. Connect flexible joint to existing pipe with mechanical restraint rings on each side of joint. Provide flange adapter at pipe cuts.
- After installation, disinfect line using VDH approved method. Pressure test to 145 psi. (Western Virginia Water Authority standard).
- Joint shall be EBBA Iron Flex-Tend 408F10 or approved equal.

COMMONWEALTH OF VIRGINIA

RONALD B. SMITH

Lic. No. 16774

PROFESSIONAL ENGINEER

AECOM TECH. SERV., INC.

ROANOKE, VA

UTILITIES ENGINEER

Scale: 1" = 10'-0", unless otherwise shown

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			COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION			
			STRUCTURE AND BRIDGE DIVISION			
			WATER LINE MODIFICATIONS			
No.	Description	Date	Designed: BS	Date	Plan No.	Sheet No.
			Drawn: KWS	July 2015	164-06G	10 of 10
Revisions			Checked: JCV			

As-Built Substantial Completion 10.13.16 K. Winslow