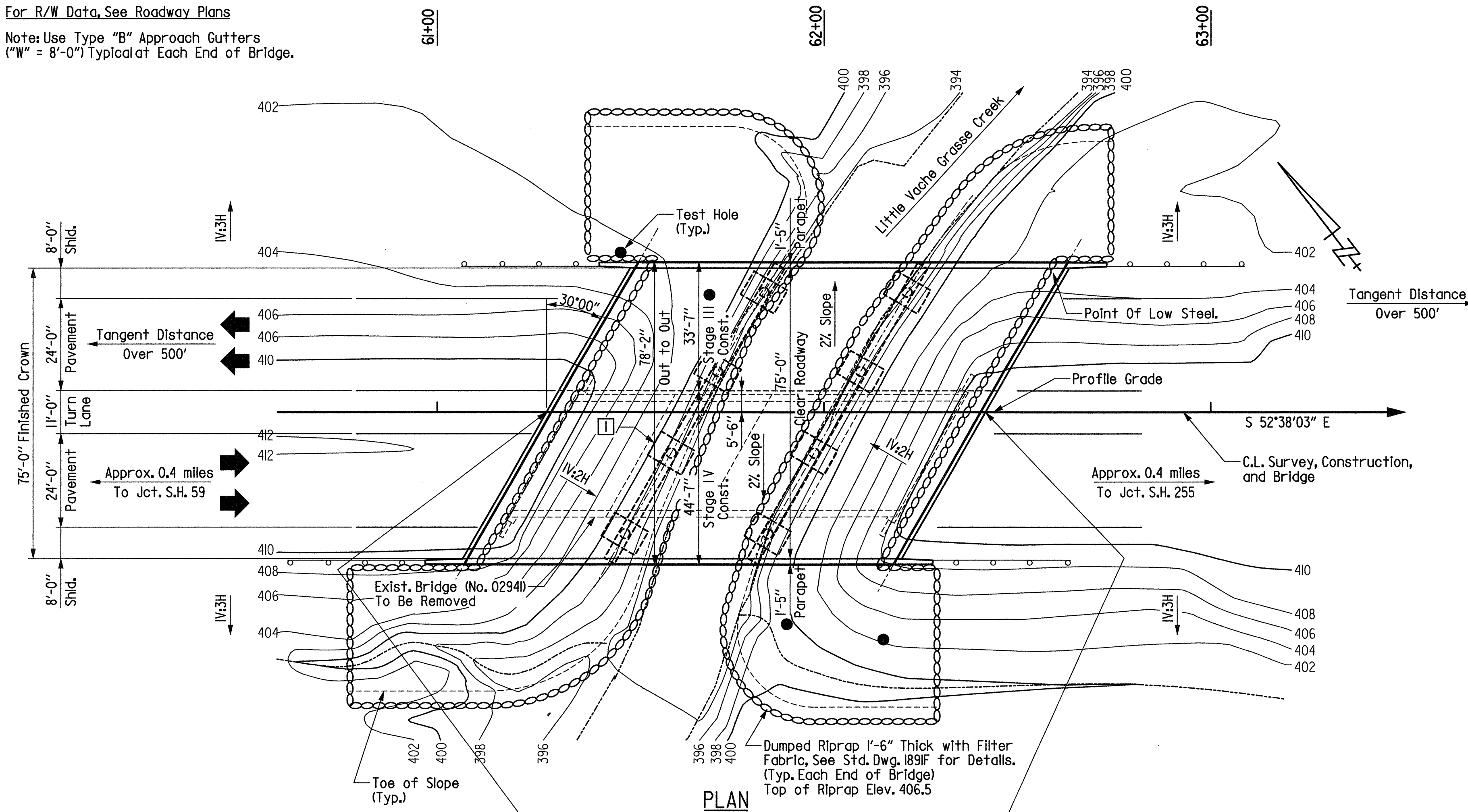


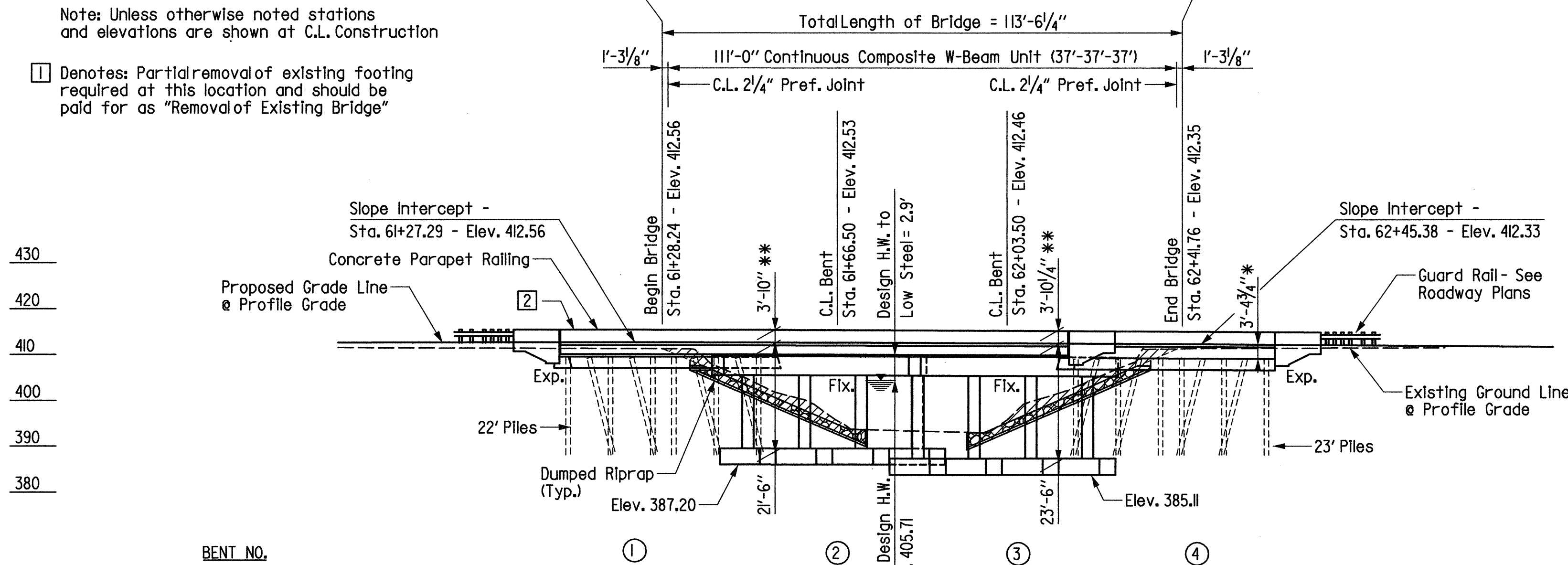
For R/W Data, See Roadway Plans

Note: Use Type "B" Approach Gutters  
("W" = 8'-0") Typical at Each End of Bridge.



Note: Unless otherwise noted stations and elevations are shown at C.L. Construction

1 Denotes: Partial removal of existing footing required at this location and should be paid for as "Removal of Existing Bridge"



\*\* Top of Deck @ C.L. Bent and Profile Grade to low side Top of Cap

\* Top of Deck @ Profile Grade to Low Steel

Denotes area to be excavated within limits of riprap.

For Soil Borings, See Dwg. No. 47637

### ELEVATION

Note: Excavate the existing embankment at the existing bridge ends to achieve the slopes shown. Approximately 480 cu. yd. of excavation required.

VERTICAL CURVE DATA  
(Along Profile Grade)

### HYDRAULIC DATA

FLOOD DESCRIPTION	FREQUENCY	DISCHARGE	*NATURAL WATER SURFACE ELEVATION	WATER SURFACE ELEV. WITH BACKWATER
	YEARS	CFS	FEET	FEET
Design	50	4802	403.76	405.71
Base	100	5526	404.14	406.43
Extreme	500	7825	405.17	408.74
Overtopping	>500	-----	-----	-----

\* Unconstricted water surfaces without existing structures or existing roadway/railroad embankments.

Drainage area = 10.65 square miles.

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
				6	ARK.			
				JOB NO.		040455	114	394
				07048		LAYOUT		47636

### GENERAL NOTES

BENCH MARK: Railroad Spike in 14" Elm, 178.53' Rt. of C.L. Survey S.H. 22 Sta. 61+87.11, Elevation 406.02

CONSTRUCTION SPECIFICATIONS: Arkansas State Highway and Transportation Department Standard Specifications for Highway Construction (2003 edition), with applicable supplemental specifications and special provisions. Unless otherwise noted on the plans, section and subsection refer to the Standard Construction Specifications.

DESIGN SPECIFICATIONS: AASHTO Standard Specifications for Highway Bridges (2002 edition), with current interim specifications.

LIVE LOAD: HS20 METHOD OF DESIGN: Load Factor  
SEISMIC PERFORMANCE CATEGORY: A

MATERIALS AND STRENGTHS:  
Class S(AE) Concrete (Superstructure)  $f'_c = 4,000$  psi  
Class S Concrete (Substructure)  $f'_c = 3,500$  psi  
Reinforcing Steel (AASHTO M31 or M53, Gr. 60)  $f_y = 60,000$  psi  
Structural Steel (AASHTO M270, Gr. 50W)  $F_y = 50,000$  psi  
Structural Steel (AASHTO M270, Gr. 36)  $F_y = 36,000$  psi

BORING LOGS: Boring Logs may be obtained from the Programs and Contracts Division.

BRIDGE DECK: The concrete bridge deck shall be given a fine finish as specified for final finishing in Subsection 802.19 for Class 5 Tined Bridge Roadway Surface Finish.

CLASS 1 PROTECTIVE SURFACE TREATMENT: Class 1 Protective Surface Treatment shall be applied to the roadway surface and to the face and top of the concrete parapet rail.

FOOTINGS: Footings shall be set a minimum of 2'-0" into Competent Shale and shall have a minimum cover above top of footings of 2'-0". Foundations for footings shall be prepared in accordance with Section 801.04 of the Standard Specifications. Rock excavations shall be made to neat lines of the concrete footings. Care shall be exercised to avoid shattering of rock faces by excessive blasting. Concrete in footings shall be poured directly against excavated surfaces of rock.

STEEL PILING: All piling shall be HP12x53 and shall be driven with an approved air, steam, or diesel hammer to a minimum safe bearing capacity of 55 tons per pile and into the material designated as shale on the boring legend. Lengths shown are for estimating quantities and for use in determining payment for cut-off and build-up in accordance with the Standard Specifications. Piles in end bents to be driven after embankment to bottom of cap is in place. On all piles the contractor shall use approved steel H-Pile driving points.

REMOVAL AND SALVAGE: After Stage III construction is opened to traffic, the existing bridge (No. 02941) shall be removed in accordance with Section 205. All material from existing bridge shall become the property of the contractor.

DETAIL DRAWINGS:  
End Bents 47640 - 47644  
Intermediate Bents 47645 - 47646  
111'-0" Cont. Comp. W-Beam Unit 47647 - 47653  
Elastomeric Bearings 47654  
Type B Approach Gutters 2016B  
Steel Piling 14495A

EXISTING BRIDGE: Existing Bridge No. 02941 (L.M. 8.83) is 3'-6" wide and 100'-0" long and consists of four - 25'-0" reinforced concrete slab spans supported by substructures consisting of two-column interior bents and five-pile end bents. The existing bridge is located on the proposed alignment. Plans for existing bridge will be made available to the Contractor upon request to Programs and Contracts Division. Existing Dwg. Nos. 8516, 5474A, 5475, 5475B, 5476A.

TEMPORARY SHORING: Temporary shoring may be required. Payment for temporary shoring will be incidental to Item 801. See Special Provision Job No. 040455 "Shoring".

MAINTENANCE OF TRAFFIC: See Roadway Plans.

## ALTERNATE NO. 1 SHEET 1 OF 2 LAYOUT OF S.H. 22 BRIDGE OVER LITTLE VACHE GRASSE CREEK CUSTER BLVD. - HWY. 22 (GR. & MDS) (F) SEBASTIAN COUNTY

ROUTE 22 SEC. 1  
ARKANSAS STATE HIGHWAY COMMISSION  
LITTLE ROCK, ARK.

DRAWN BY: JE DATE: 9-03 FILENAME: b040455111.dgn  
CHECKED BY: LM DATE: 6-05 SCALE: 1" = 20'  
DESIGNED BY: LM DATE: 9-03

BRIDGE NO. 07048 DRAWING NO. 47636



BRIDGE ENGINEER