DESIGN

DESIGN SPECIFICATIONS

"AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" XX EDITION AND (MONTH)(YEAR) ITD BRIDGE DESIGN LRFD MANUAL.

DESIGN PROCEDURES

GIRDERS DESIGNED AS SIMPLE SPANS AND SLAB REINFORCEMENT ADDED TO CONTROL CRACKING OVER THE PIERS.

DECK SLAB DESIGNED USING EMPIRICAL DESIGN METHOD. RAILING IN ACCORDANCE WITH MASH TL-x. DESIGN SPEED IS ___ MPH.

ABUTMENT/PIER DESIGNED TO RESIST THE VEHICULAR COLLISION FORCE.

PROPRIETARY COMPUTER SOFTWARE PROGRAMS USED TO FACILITATE DESIGN:

NAME	VERSION	RELEASE DATE		NAME	VERSION	RELEASE DATE

DESIGN LOADS

PERMANENT LOADS

DC	UNIT WEIGHT OF REINFORCED CONCRETE	0.150 kcf
DW	INITIAL WEARING SURFACE	0.028 ksf
	FUTURE WEARING SURFACE	0.028 ksf
	UTILITIES	xxx klf/GIRDER
	FUTURE UTILITIES	x.xx klf/GIRDER
EV	UNIT WEIGHT OF SOIL	xxx kcf
EH	ACTIVE PRESSURE	xxx kcf
	AT REST PRESSURE	xxx kcf

TRANSIENT LOADS

LL	HL-93 INCLUDING PAIR OF DESIGN TANDEMS IN ACCORDANCE WITH "AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" ARTICLE 3.6.1.3	
IM	DYNAMIC ALLOWANCE APPLIED TO TRUCK & TANDEM	
LS	LIVE LOAD SURCHARGE AT ABUTMENT	x.xx ft
	LIVE LOAD SURCHARGE AT WINGWALL	x.xx ft
TU	UNIFORM TEMPERATURE RANGE	0°F TO 80°F
	BASE SETTING TEMPERATURE	60°F

EXTREME EVENT LOADS

EQ	SITE CLASS	x
	ACCELERATION COEFFICIENT S_{D1}	0.xx g
	SEISMIC PERFORMANCE ZONE	x
CT	VEHICULAR COLLISION FORCE	600 K
IC	ICE CRUSHING STRENGTH	x.xx ksf
	ICE THICKNESS	x.xx feet

GENERAL NOTES

MATERIALS, CONSTRUCTION AND WORKMANSHIP IN ACCORDANCE WITH THE STATE OF IDAHO TRANSPORTATION DEPARTMENT, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2023 EDITION, THE PROJECT PLANS, AND SPECIAL PROVISIONS.

MATERIALS

CONCRETE:	DECK SLAB AND PARAPET - CLASS 40AF	f'c = 4.00 ksi
	ABUTMENTS AND WINGWALLS - CLASS 40A	f'c = 4.00 ksi
	PRESTRESS GIRDERS	f'c = x.xx ksi
METAL REINFORCEMENT: AASHTO M31, GRADE 60 TYPE S		fy = 60.00 ksi
PRESTRESSING REINFORCEMENT: AASHTO M203, GRADE 270 LOW RELAXATION		fpu = 270.00 ksi

PLAN DIMENSIONS AND ELEVATIONS

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

DIMENSIONS TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE.

PROVIDE 2" CONCRETE COVER MEASURING FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING BAR, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

PROVIDE REINFORCING STEEL SPLICE LENGTHS IN ACCORDANCE WITH AASHTO SPECIFICATIONS.

CONSTRUCTION

EPOXY-COATED REINFORCEMENT IS DESIGNATED BY AN (E) AFTER THE BAR MARK. GLASS FIBER REINFORCED POLYMER REINFORCEMENT IS DESIGNATED BY A (G) AFTER THE BAR MARK.

PROVIDE CONSTRUCTION JOINTS ONLY AT THE LOCATIONS SHOWN ON THE PLANS OR AS APPROVED.

SET THE ROLLER IN THE STATIC MODE FOR COMPACTING THE ASPHALT WEARING SURFACE ON THE BRIDGE.

ELEVATIONS BASED ON NAVD 88 DATUM.

INCIDENTAL ITEMS

WORK NECESSARY TO FULFILL THE CONTRACT THAT IS NOT MEASURED OR PAID FOR SEPARATELY.

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5			

DESIGNED

DESIGN CHECKED

DETAILED

DWG. CHECKED

CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME
Standards/Bridge Standard Drawings/
B17_1A.DGN

DRAWING DATE:
OCT 2023

IDAHO TRANSPORTATION DEPARTMENT

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

APPROVED BY:
BRIDGE ENGINEER MICHAEL T. JOHNSON DATE: _____

ENGLISH

PROJECT NO.

DESIGN AND GENERAL NOTES - SHEET 1

PRECAST, P/S GIRDER BRIDGE
BRIDGE LRFD DESIGN MANUAL, B17.1A

BRIDGE PLANS

BRIDGE KEY NO.

COUNTY | KEY NO.

BRIDGE DWG. NO. | SHEET OF