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
	42" SINGLE SLOPE CONCRETE PARAPET	0.518 klf/SIDE
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: (YEAR) STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, (YEAR) SUPPLEMENTAL SPECIFICATIONS, SPECIAL PROVISIONS, AND THE PROJECT PLANS.

MATERIALS

CONCRETE:	DECK SLAB AND PARAPET - CLASS 40AF	f'c = 4.0 ksi
	ABUTMENTS AND WINGWALLS - CLASS 40A	f'c = 4.0 ksi
	PRESTRESS GIRDERS	f'c = x.x ksi
METAL REINFORCEMENT: AASHTO M31, GRADE 60		fy = 60 ksi
PRESTRESSING REINFORCEMENT: AASHTO M203, GRADE 270 LOW RELAXATION		fpu = 270 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 MEASURED 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.

MASSIVE CONCRETE PLACEMENT

SUBMIT A THERMAL CONTROL PLAN IN ACCORDANCE WITH 502.03.F.4 FOR THE FOLLOWING MASS CONCRETE ELEMENTS:

XXX
YYY
ZZZ

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	ENGLISH	DESIGN AND GENERAL NOTES - SHEET 1	BRIDGE PLANS	
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED	CADD FILE NAME	YOUR Safety→YOUR Mobility→YOUR Economic Opportunity	PROJECT NO.		BRIDGE KEY NO.	
				DETAILED	Standards\Bridge Standard Drawings\ B17_1A.DGN			PRECAST, P/S GIRDER BRIDGE BRIDGE LRFD DESIGN MANUAL, B17.1A	COUNTY	KEY NO.
				DWG. CHECKED	DRAWING DATE: DEC 2024	APPROVED BY: BRIDGE ENGINEER MICHAEL T. JOHNSON DATE:			BRIDGE DWG. NO.	SHEET OF
				CORRECTIONS						