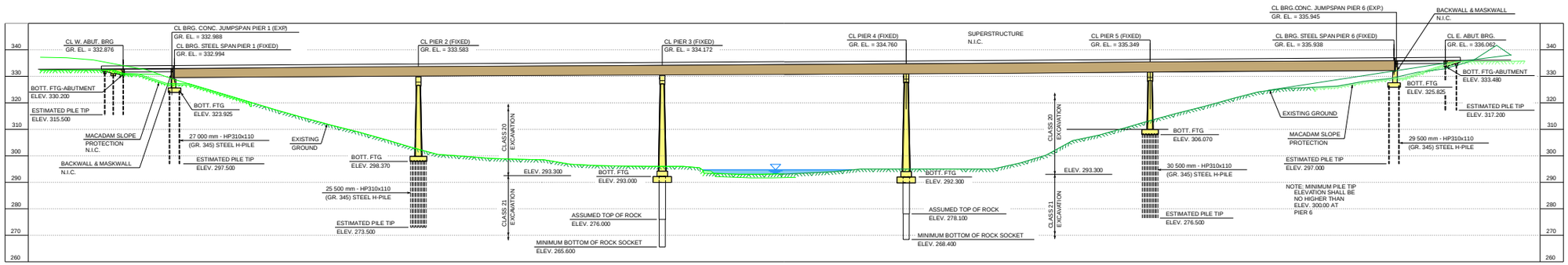
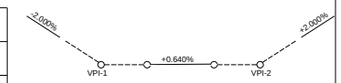


LONGITUDINAL SECTION ALONG CL RELOCATED U.S. 20

BENCHMARK #562 STA. 336+38.551, 37.53m LT.
SET RR. SPK. N. SIDE P. POLE ELEV. = 341.608



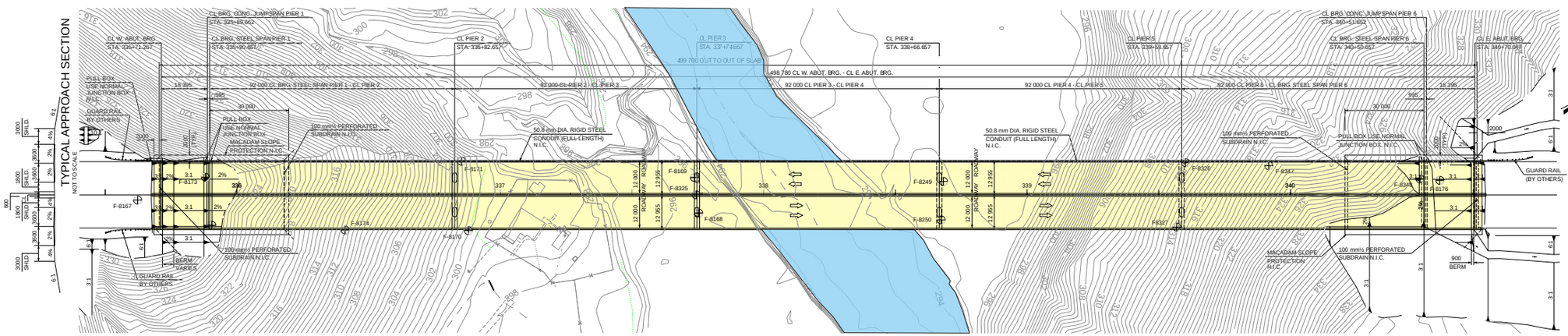
VPI-1 STA.=335+00.000
VPI-1 ELEV.=332.414
LENGTH=160.00m

VPI-2 STA.=341+50.000
VPI-2 ELEV.=336.574
LENGTH=160.00m

PROPOSED GRADE ON RELOCATED U.S. 20

HYDRAULIC DATA

DRAINAGE AREA= 1890 km²
STREAM SLOPE= 0.000436 m/m
Q_{50} 396 m³
NATURAL STAGE= 297.1
Q_{100} 467 m³
NATURAL STAGE= 297.4
Q_{500} 570 m³
NATURAL STAGE= 297.7



SITUATION PLAN

NOTES:
FOR EXISTING GRADING AT WEST ABUTMENT, SEE SHEET NO. 42.
FOR ENVIRONMENTAL CONTROL PLAN, SEE DESIGN SHEET NO. /A55/.
FOR SITE DRAINAGE PLAN, SEE SHEET NO. 37.
INDICATES AS-DRILLED BORING LOCATION.

NOTE:
CONSTRUCTION OF ABUTMENTS, PORTIONS OF PIERS 1 AND 6 WHERE NOTED, SLOPE PROTECTION, SUBDRAINS, PRECAST SUPERSTRUCTURE, STEEL SUPERSTRUCTURE, DECK, WEARING COURSE, EXPANSION JOINTS, AND BARRIERS SHALL NOT BE CONSIDERED AS PART OF THE SUBSTRUCTURE CONTRACT.

LOCATION

RELOCT. US 20 OVER
THE IOWA RIVER
T 88 N R 19 W
SECTION 16
CLAY TOWNSHIP
HARDIN COUNTY

SUBSTRUCTURE CONTRACT

DESIGN FOR 0 DEGREE SKEW

DUAL 498.78m x 12.0m CONT. WELDED GIRDER BRIDGE w/ PRECAST JUMPSPANS

1 - 18.395 m SPAN; 5 - 92.000 m SPANS; 1 - 18.395 m SPAN

SITUATION PLAN

STATION: 338+20.657

HARDIN COUNTY

IOWA DEPARTMENT OF TRANSPORTATION - PROJECT DEVELOPMENT DIVISION

DESIGN SHEET NO. /A03/ OF ____ FILE NO. 29212 DESIGN NO. 199

STATE	FY-YARD DESIGNATOR	FY-GEN. DESIGN	SHEET NO.	TOTAL SHEETS NO.
IOWA	7			

DESIGNED BY DMR
DETAILED BY CAT
CHECKED BY DMR
CADD FILE

HARDIN COUNTY

PROJECT NUMBER