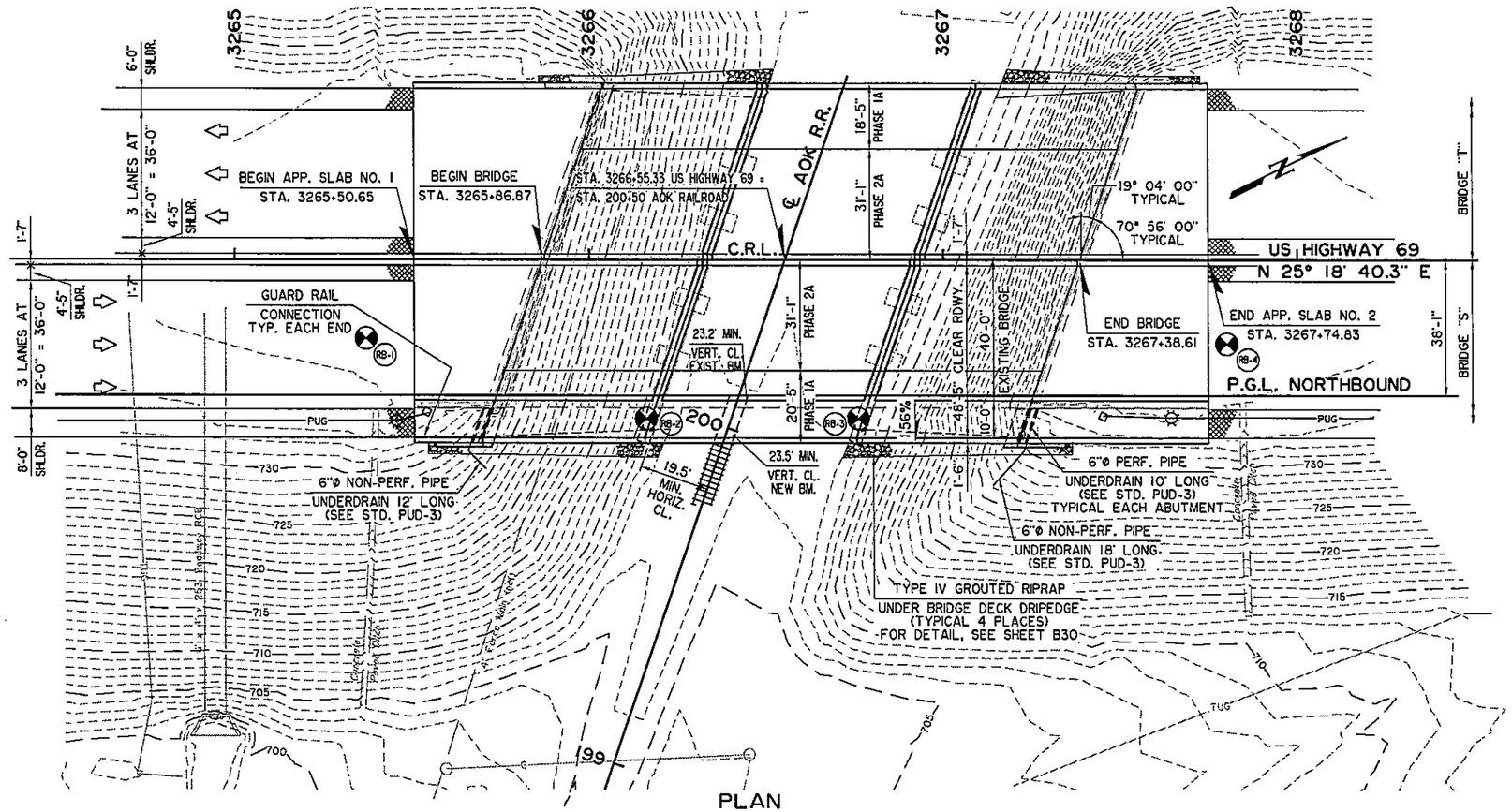


PLAN
1" = 20'

DESIGN DATA

CONCRETE CLASS A	f'c = 3 K.S.I.
CONCRETE CLASS AA	f'c = 4 K.S.I.
REINFORCING STEEL (GRADE 60)	fy = 60 K.S.I.
STRUCTURAL STEEL M 270 (GRADE 50W)	Fy = 50 K.S.I.
STAINLESS STEEL A240 (TYPE 316)	Fy = 30 K.S.I.

LOADING:
HL-93 OR OKLAHOMA OVERLOAD TRUCK
20 PSF FUTURE WEARING SURFACE
5 PSF STAY-IN-PLACE DECK FORM ALLOWANCE

DESIGN:
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6th EDITION
ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE
ANSI/AWS D1.6 STRUCTURAL WELDING CODE - STAINLESS STEEL

HL-93 INVENTORY RATING FACTOR: 2.71
HL-93 OPERATING RATING FACTOR: 4.74

THE HL-93 RATING FACTORS SHOWN ARE BASED ON A NOMINAL STRENGTH USING ONLY STRANDS THAT ARE BONDED FOR THE FULL LENGTH OF THE BEAM. ALL PARTIALLY BONDED STRANDS ARE NEGLECTED IN STRENGTH COMPUTATIONS.

FOUNDATION DATA

PIERS (72" DIAMETER DRILLED SHAFTS)

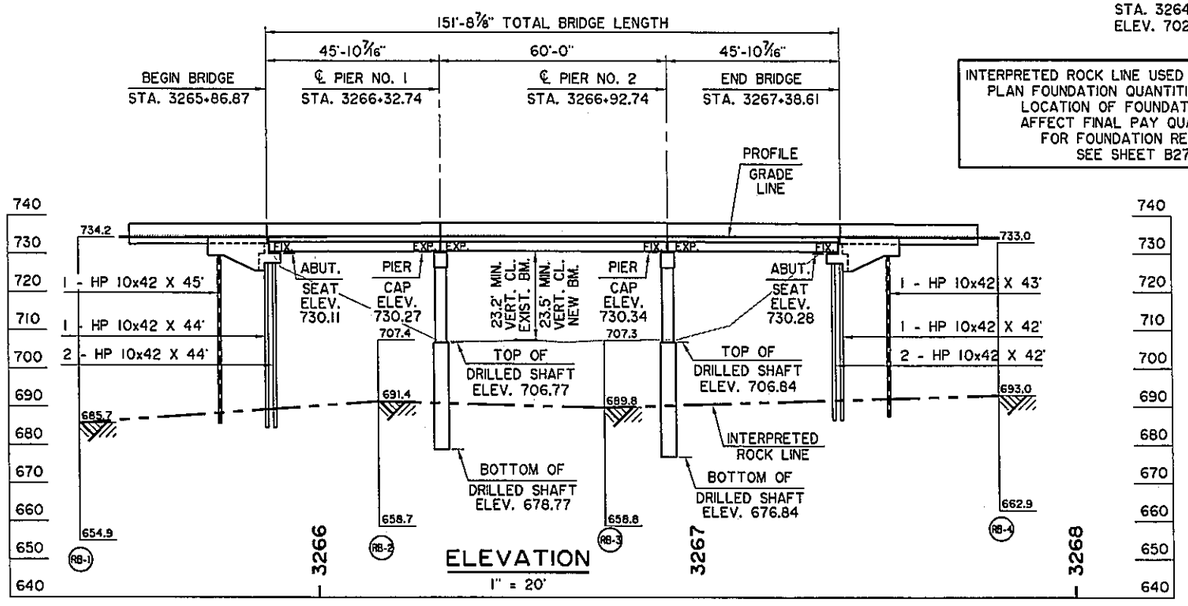
FACTORED REACTION	= 586.7 TON / SHAFT
NOMINAL UNIT BEARING RESISTANCE	= 60 T.S.F.
BEARING RESISTANCE FACTOR	= 0.7
FACTORED BEARING RESISTANCE	= 1187.5 TON / SHAFT
NOMINAL UNIT FRICTION RESISTANCE	= 9 T.S.F.
FRICTION RESISTANCE FACTOR	= 0.45
FACTORED FRICTION RESISTANCE	= 534.4 TON / SHAFT
DEPTH OF ROCK NEGLECTED FOR FRICTION	= 5.0 FT.
TOTAL FACTORED RESISTANCE	= 1721.9 TON / SHAFT

ABUTMENTS (HP10x42 PILING)

FACTORED PILE REACTION	= 47.5 TON / PILE

FACTORED PILE RESISTANCE:
DRIVE PILING THROUGH THE COMPACTED FILL AND TO A POINT BEARING ON SOLID FOUNDATION MATERIAL AT THE APPROXIMATE ELEVATION SHOWN ON THE PLANS. IF A FACTORED AXIAL LOAD RESISTANCE EQUAL TO OR GREATER THAN THE FACTORED PILE REACTION IS NOT OBTAINED AT THIS ELEVATION, CONTINUE DRIVING UNTIL SUCH IS OBTAINED. THE LENGTH OF STEEL PILING SHOWN ON THE PLANS IS FOR ESTIMATING PURPOSES ONLY.

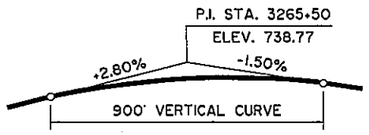
INDEX OF SHEETS



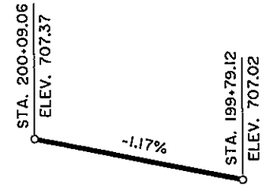
ELEVATION
1" = 20'

BM 66 CHISELED SQUARE
TOP WEST CURB
STA. 3264+54, 219' LEFT CRL
ELEV. 702.09

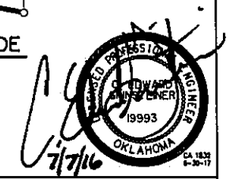
INTERPRETED ROCK LINE USED TO CALCULATE PLAN FOUNDATION QUANTITIES. ACTUAL LOCATION OF FOUNDATION MAY AFFECT FINAL PAY QUANTITIES. FOR FOUNDATION REPORT, SEE SHEET B27.



BRIDGE VERTICAL CURVE
US 69 NORTHBOUND



R.R. PROFILE GRADE
NORTH RAIL



7/7/16

Design	RRW		U.S. HIGHWAY 69 - McALESTER
Drawn	HEJ	KGL	GENERAL PLAN AND ELEVATION
Checked	ADT	DMH	AOK RAILROAD
Approved	CEG		BRIDGE "S" NORTHBOUND, BRIDGE "T" SOUTHBOUND
Squad	WEA		JOB PIECE NO. 14999(04) SHEET NO. B26

I:\Active\0403\D RRVDWG\B26-PandE.dwg, 7/6/2016 8:10:05 AM, Howard