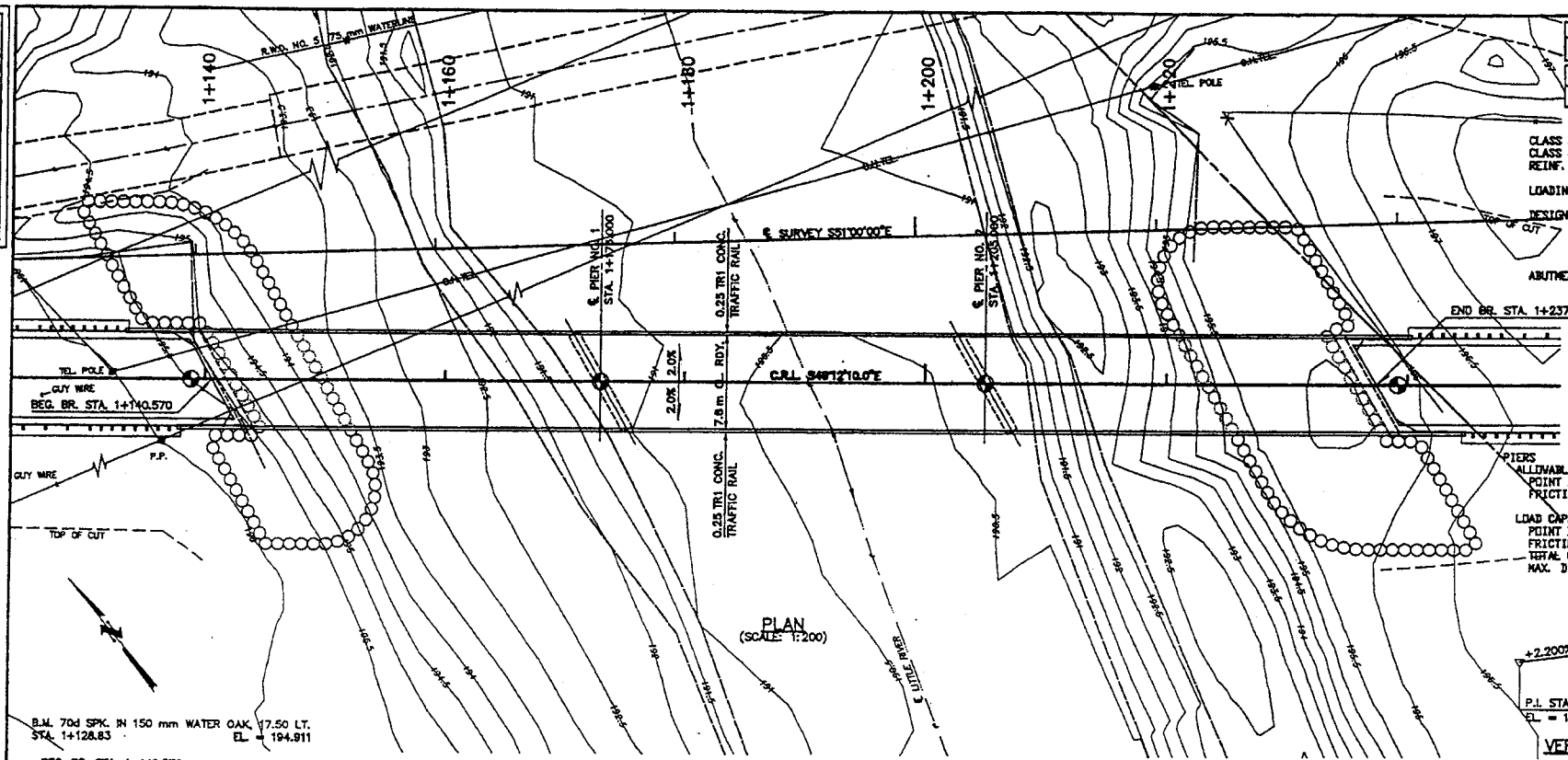
METRIC
This drawing is dimensioned in meters (m) unless otherwise depicted on this sheet.



FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				

REVISIONS

DESCRIPTION	DATE

DESIGN DATA

CLASS AA CONCRETE f'c = 28.0 MPa
CLASS A CONCRETE f'c = 21.0 MPa
REINF. STEEL (GR. 420) fy = 420.0 MPa

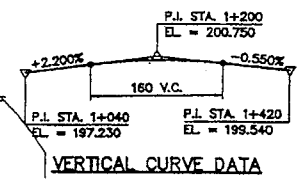
LOADING MS 18 + 1 kPa FUTURE WEARING SURFACE
DESIGN 16TH EDITION OF AASHTO AND AWS SPECIFICATIONS

FOUNDATION PRESSURE

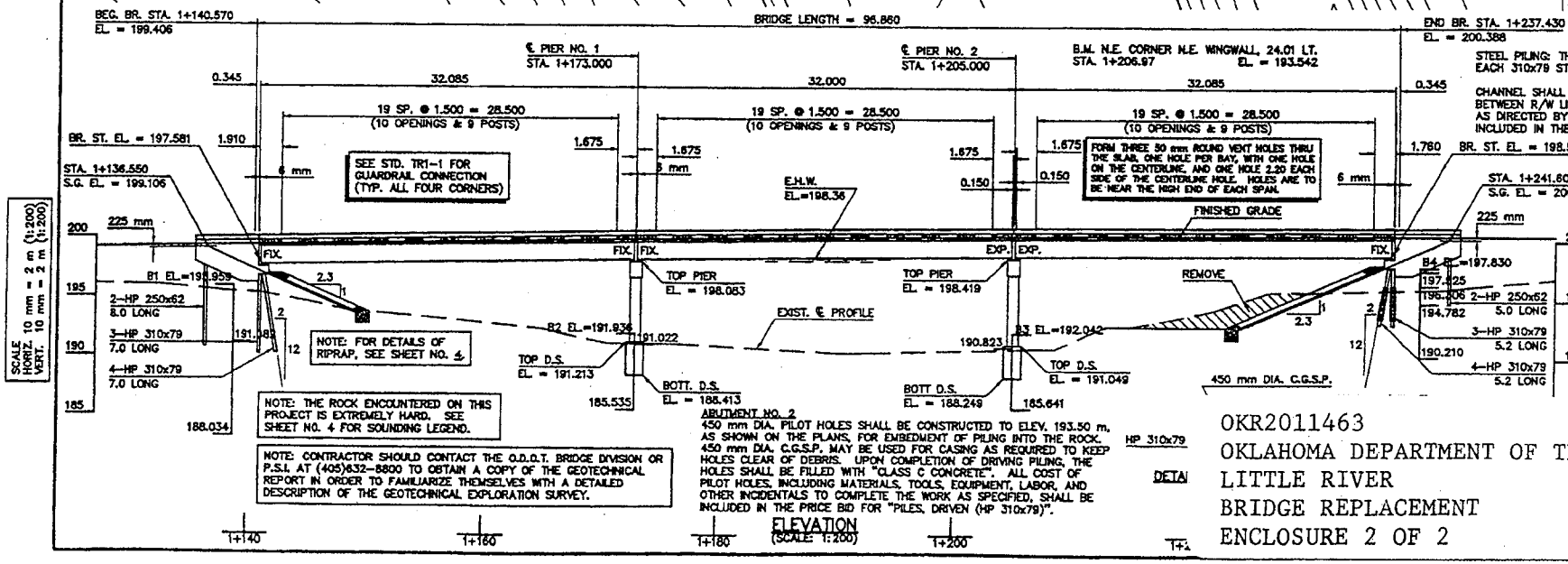
ABUTMENTS 410.0 kN/PILE

PIERS
ALLOWABLE FOUNDATION LOADS
POINT BEARING 2,000 kPa
FRICTION (NEGLECT TOP 1.0 m) 300 kPa

LOAD CAPACITY PER SHAFT
POINT BEARING 2,863.0 kN
FRICTION 1,909.0 kN
TOTAL CAPACITY 4,772.0 kN
MAX. DIRECT LOAD 2,380.0 kN



VERTICAL CURVE DATA



STEEL PILING: THE REQUIRED BEARING CAPACITY FOR EACH 310x79 STEEL PILE IS 820 kN.

CHANNEL SHALL BE CLEARED, SHAPED, AND GRADED BETWEEN R/W LINES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN THE PRICE BID FOR "EARTHWORK."

SUMMARY OF HYDRAULIC DATA

BRIDGE LENGTH	96.86 m
SKEW	30° R.F.
D.A.	405.1 km²
Q10	665.00 m³/s
V10	2.90 m/s
CHW10	195.76 m
Q25	915.00 m³/s
V25	3.17 m/s
CHW25	196.78 m
Q50 = Q.O.T.	1,132.00 m³/s
V50	3.38 m/s
CHW50	197.58 m
Q100	1,363.00 m³/s
V100	3.57 m/s
CHW100	198.36 m
LOW CHORD	197.62 m

OKR2011463
OKLAHOMA DEPARTMENT OF TRANSPORTATION
LITTLE RIVER
BRIDGE REPLACEMENT
ENCLOSURE 2 OF 2