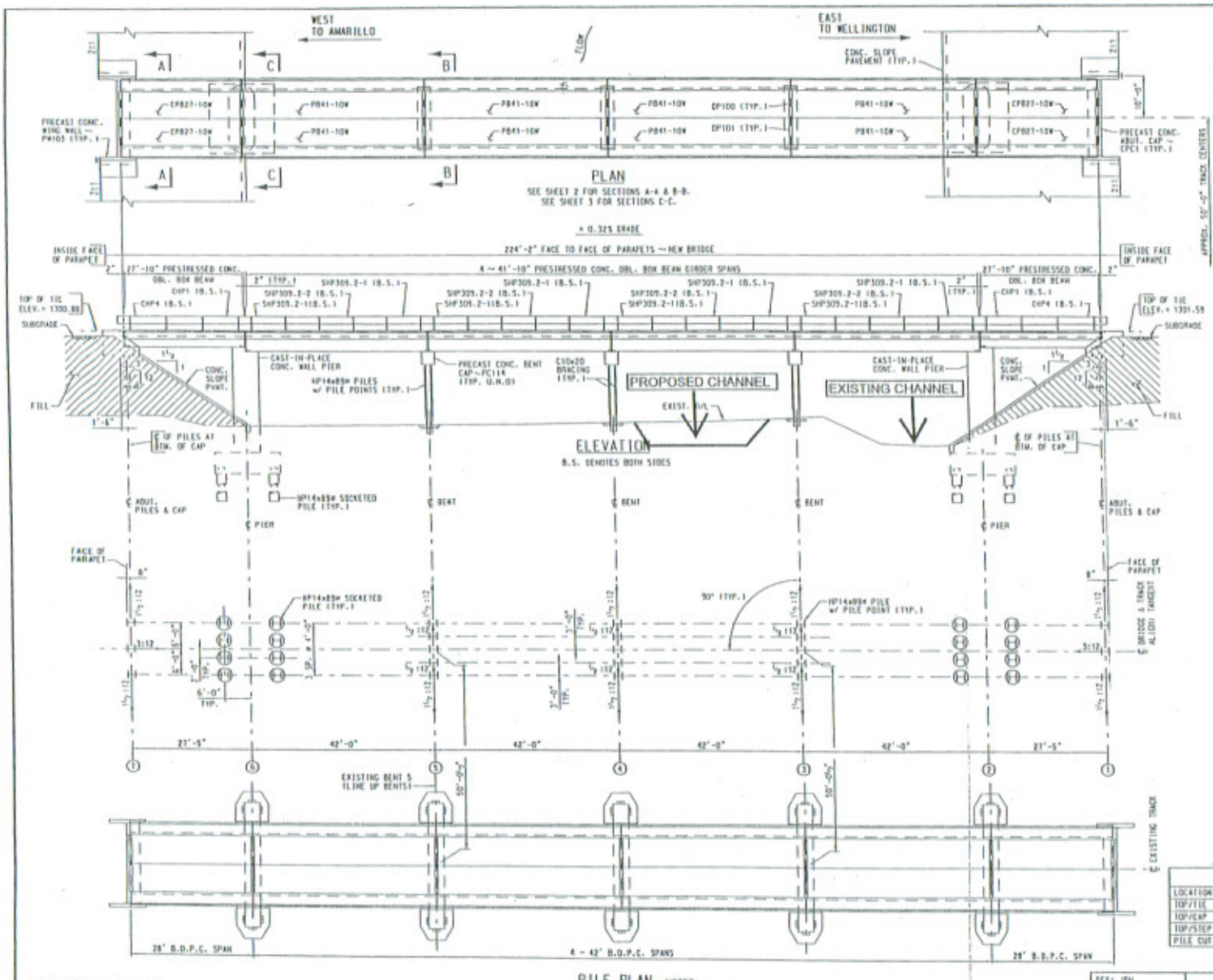

GENERAL NOTES:

DESIGN LOADING : COOPER E80 WITH DIESEL IMPACT.

BRIDGE STATIONING AND ELEVATIONS BASED ON TRANSYSTEMS CONSULTING ENGINEERS SURVEY DATED AUGUST 2005.

BRIDGE ERECTION SUBJECT TO APPLICABLE DETAILS AS SHOWN ON THE PLANS AND OR REFERENCES AND AS DIRECTED BY THE ENGINEER.

REFERENCES:

BRIDGE STANDARDS 42" x 1'-0" DOUBLE CELL BOX BEAM.
PLAN NO. 0000-18900-018.

BNSF/UP BRIDGE STANDARDS 28' & 33' PRESTRESSED CONCRETE SPANS SINGLE TRACK. PLAN NO. 0000-17902.

BNSF/UP BRIDGE STANDARDS 30" x 1'-0" DEEP DBL. BOX PRESTRESSED CONCRETE BEAM. PLAN NO. 500000. BW05. B61 & B62.

CORR. FILE~BR. 309.2. LINE SEG. 1100 NEAR LODER, OK

PILE NOTES:

PILES SHALL BE ACCORDANCE WITH BNSF STANDARD SPECIFICATIONS SECTION 04200.
PILE SPACINGS SHOWN ARE AT PILE CUTOFF ELEVATIONS.
PILES SHALL BE DRIVEN TO REFUSAL. IF POSSIBLE, OR TO A MINIMUM ULTIMATE RESISTANCE OF 250 TONS AS DETERMINED BY THE MODIFIED ENGINEERING NEWS RECORD FORMULA.

ESTIMATED PILE LENGTH BELOW CUTOFF AT PIERS = 39'.
PILE CUTOFFS IN EXCESS OF 10' SHALL BECOME THE PROPERTY OF BNSF.
PILE PENETRATION SHALL BE PERMANENTLY MARKED ON EACH PILE GROUP AS DIRECTED BY THE ENGINEER.
MINIMUM PILE PENETRATION SHALL BE 25 FEET.
PAINT EXPOSED PILES WITH ONE FINISH COAT ZINC RICH BRIDGE PAINT.
PAINT TO EXTEND AT LEAST ONE FOOT BELOW FINISHED GROUND LINE.
PILE DRIVING IS SUBJECT TO APPROVAL BY THE ENGINEER.

ALL PILES TO BE DRIVEN w/ REINF. TIPS (PILE PTS.)
SYMBOL ⊥ DENOTES DIRECTION AND AMOUNT OF PILE BATTER.

H-PILES ARE TO BE INSTALLED IN PRE-DRILLED SOCKETS AND ARE TO BE CENTERED IN SOCKETS. SOCKETS ARE THEN TO BE FILLED WITH CLASS 3S CONCRETE TO THE ELEVATIONS SHOWN. A PERMANENT STEEL CASING WILL BE USED FOR THE SOCKET SHELL TO SEAL OUT GROUND WATER AND SLOUGHING SOILS FROM THE SOCKET SHAFT.

HANDLING NOTES:

PRESTRESSED CONCRETE SPANS SHOULD ALWAYS BE LIFTED BY THE DEVICES CAST INTO THEM BY THE FABRICATOR. IF SPANS ARE NOT GOING TO BE PLACED IN SERVICE IMMEDIATELY UPON RECEIPT IN THE FIELD, THEY MUST BE PLACED ON BLOCKING WHICH SUPPORTS THEM AT THE VERY ENDS. IN ADDITION, IF THEY ARE GOING TO BE STORED ON BLOCKING OR FALSE WORK FOR ANY AMOUNT OF TIME AS DETERMINED BY THE ENGINEER, THEY MUST BE LOADED WITH SOME HEAVY MATERIAL OR DAMAGE TO ASSURE THAT CRACKING DOES NOT OCCUR.

TABLE OF LIFTING WEIGHTS

DESCRIPTION	MARK NO.	EST. WT. (LBS.)
27'-10" PRESTRESSED CONC. DOUBLE BOX BEAM	EPB27-10W	46,000
41'-10" PRESTRESSED CONC. DOUBLE BOX BEAM	PB41-10W	85,500
PRECAST CONC. ABUTMENT CAP	CPC1	23,100
PRECAST CONC. BENT CAP	PC114	22,000
PRECAST CONC. WING WALL	PW103	4,600

ATTENTION !

INFORMATION SHOWN ON THESE PLANS CONCERNING TYPE AND LOCATION OF UNDERGROUND OR ABOVE GROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE.

CONTRACTOR'S SUPERINTENDENT IN CHARGE WILL VERIFY THE LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES BEFORE BEGINNING CONSTRUCTION.

LIST OF DRAWINGS

PLAN NO.	TITLE
1100-309.2-01	GENERAL PLAN ~ BUILD BRIDGE
1100-309.2-02	SECTION VIEWS (1 OF 2)
1100-309.2-03	SECTION VIEWS (2 OF 2)
1100-309.2-04	WALL PIER DETAILS~PIERS 2 & 6
1100-309.2-05	WALL PIER FOOTING DETAILS
1100-309.2-06	HANDRAIL DETAILS
1100-309.2-07	MISC. DETAILS & BILL OF MATERIAL

TABLE OF ELEVATIONS

LOCATION	ABUT. NO. 1	PIER NO. 2	BENT NO. 3	BENT NO. 4	BENT NO. 5	PIER NO. 6	ABUT. NO. 7
TOP/TIE	1301.59	1301.49	1301.34	1301.20	1301.07	1300.95	1300.88
TOP/CAP	1297.78	1296.68	1297.53	1296.39	1296.26	1296.14	1297.07
TOP/STEP	-	1297.68	-	-	-	1297.14	-
PILE CUT OFF	1295.78	1269.18	1295.53	1293.39	1293.26	1268.64	1295.07

PILE PLAN

NOT TO SCALE

NOTES:

FILL GAP BETWEEN END OF BEAM AND FACE OF PARAPET WALL WITH 8~½" x 28" x 6'-4" PLIES OF PREMOLDED JOINT FILLER.

FILL GAP BETWEEN ENDS OF BEAMS WITH 8~½" x 40" x 5'-6" PLIES OF PREMOLDED JOINT FILLER.

AFTER ERECTION OF BEAMS, BURN OFF LIFTING LOOPS AT SURFACE OF CONCRETE AND PATCH WITH EPOXY MORTAR.

DES: JPH	
DRAWN: MLD	
CHECK: TAH	
DATE: FEB., 2006	
AUTH: ADE-	
LINE SEG: 1100	

BNSF RAILWAY
BRIDGE ENGINEERING KANSAS CITY, KS
APPROVED:
ASST. DIRECTOR STRUCTURES DESIGN

WELLINGTON TO AMARILLO
BRIDGE NUMBER 309.2
OVER MULE CREEK NEAR LODER, OK
GENERAL PLAN ~ BUILD BRIDGE

PLAN NO: 1100-309.2-01 | SHEET: 1 OF 7

OKR2015260
THE BNSF RAILWAY COMPANY
LITTLE MULE CREEK
RAILWAY CAPACITY IMPROVEMENTS
ENCLOSURE 3 OF 4