

REFERENCE DRAWINGS

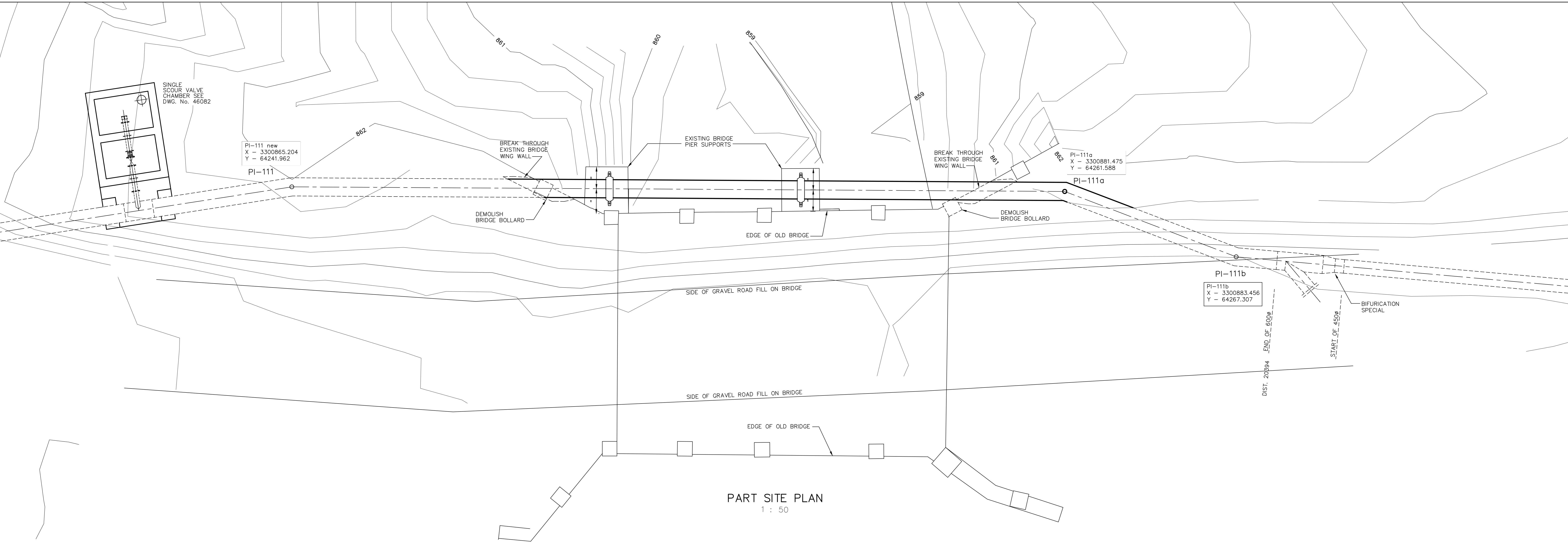
DRAWING No.	TITLE/DESCRIPTION	SOURCE
46078	BIFURICATION SPECIALS	U.W.
46036	LONGITUDINAL SECTION	U.W.
46082	SINGLE SCOUR VALVE CHAMBER	U.W.

- NOTES:**
- 1.) ALL EXPOSED PIPING TO BE PAINTED LIBERALLY WITH TWO COATS OF APPROVED U.V. RESISTANT PVC PAINT (COLOUR DARK GREEN).
 - 2.) ALL MILD STEEL FITTINGS TO BE HEAVY DUTY HOT-DIP GALVANIZED TO SANS 121 & ISO 1461 WITH HEAVY DUTY FILM THICKNESS OF 85 ±10 MICRON.
 - 3.) TOPS OF EXISTING BRIDGE PIERS TO BE SCRABBLED AND COATED WITH APPROVED MET-TO-DRY EPOXY RESIN, THEREAFTER PLACE MIN. 100mm THICK 40/19 MPa STRENGTH CONCRETE TOPPING. ENSURE TOP OF CONCRETE IS LEVEL. ONCE CONCRETE TOPPING HAS ATTAINED 7 DAY STRENGTH CREATE 150x150x200mm DEEP 'POCKETS' TO RECEIVE HOLDING-DOWN BOLTS. INSTALL SADDLES WITH HOLDING-DOWN BOLTS. FILL 'POCKETS' WITH APPROVED 40MPa NON-SHRINK GROUT. HAND TIGHTEN NUTS OF HOLDING-DOWN BOLTS. ONCE NON-SHRINK GROUT HAS ATTAINED 14 DAY STRENGTH FURTHER TIGHTEN THE NUTS OF THE BOLTS ONE MORE TURN.
 - 4.) ONCE INSTALLED ALL GALVANIZED FITTINGS SHALL RECEIVE TWO COATS OF APPROVED BITUMASTIC COATINGS. CARE SHALL BE TAKEN TO SEAL CREVICES.

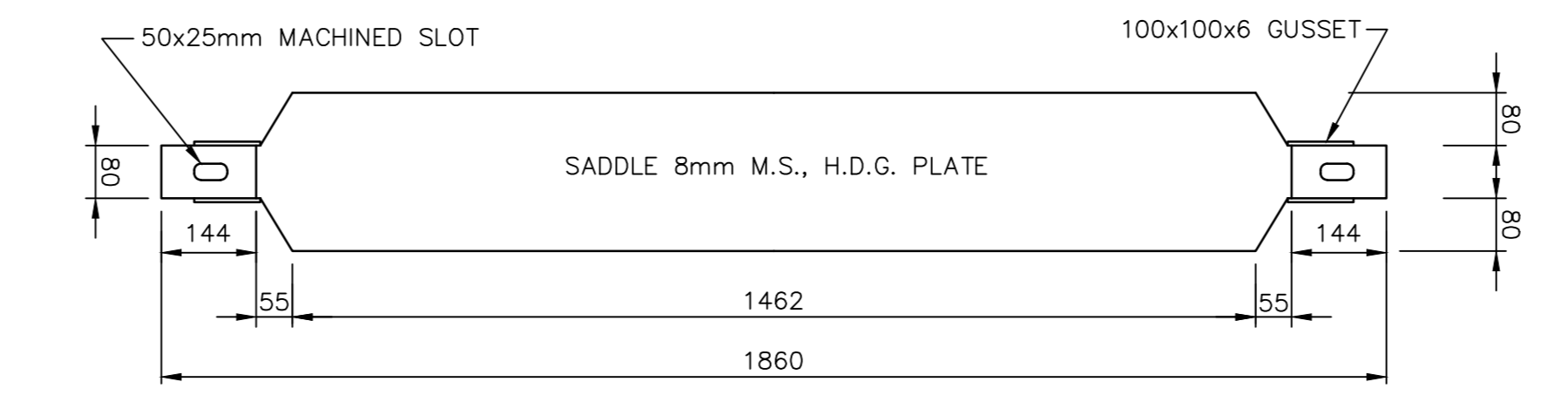
KEY TO ABBREVIATIONS

M.S.	- MILD STEEL
H.D.G.	- HEAVY DUTY HOT DIP GALVANIZED
IL	- INVERT LEVEL

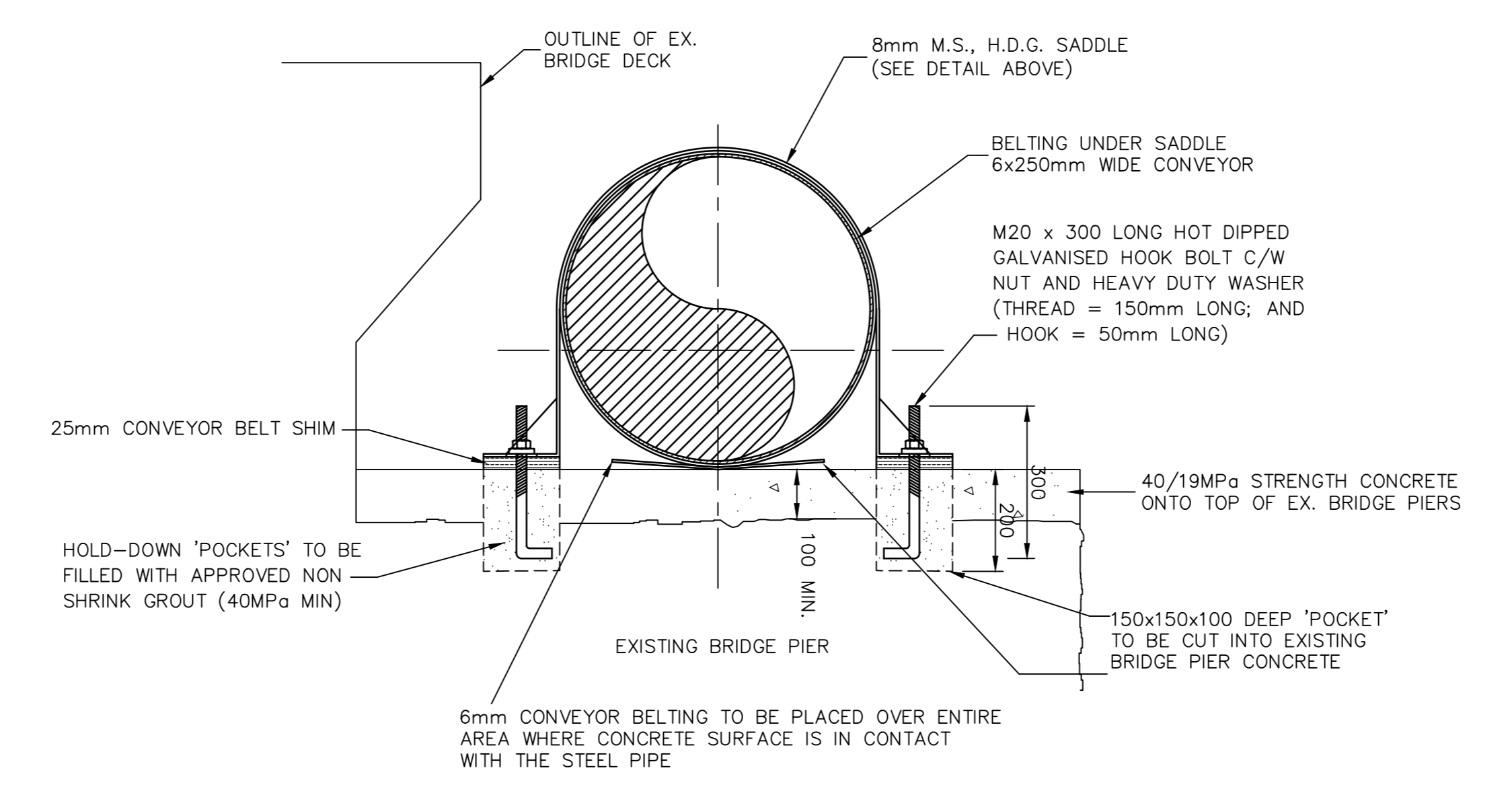
- NOTES**
- CONTRACTOR SHALL RECORD THE AS BUILT CO-ORDINATE POSITIONS OF THE BIFURICATION JUNCTIONS AND INSTALL U.W. STANDARD MARKER POSTS DIRECTLY ABOVE THESE JUNCTIONS



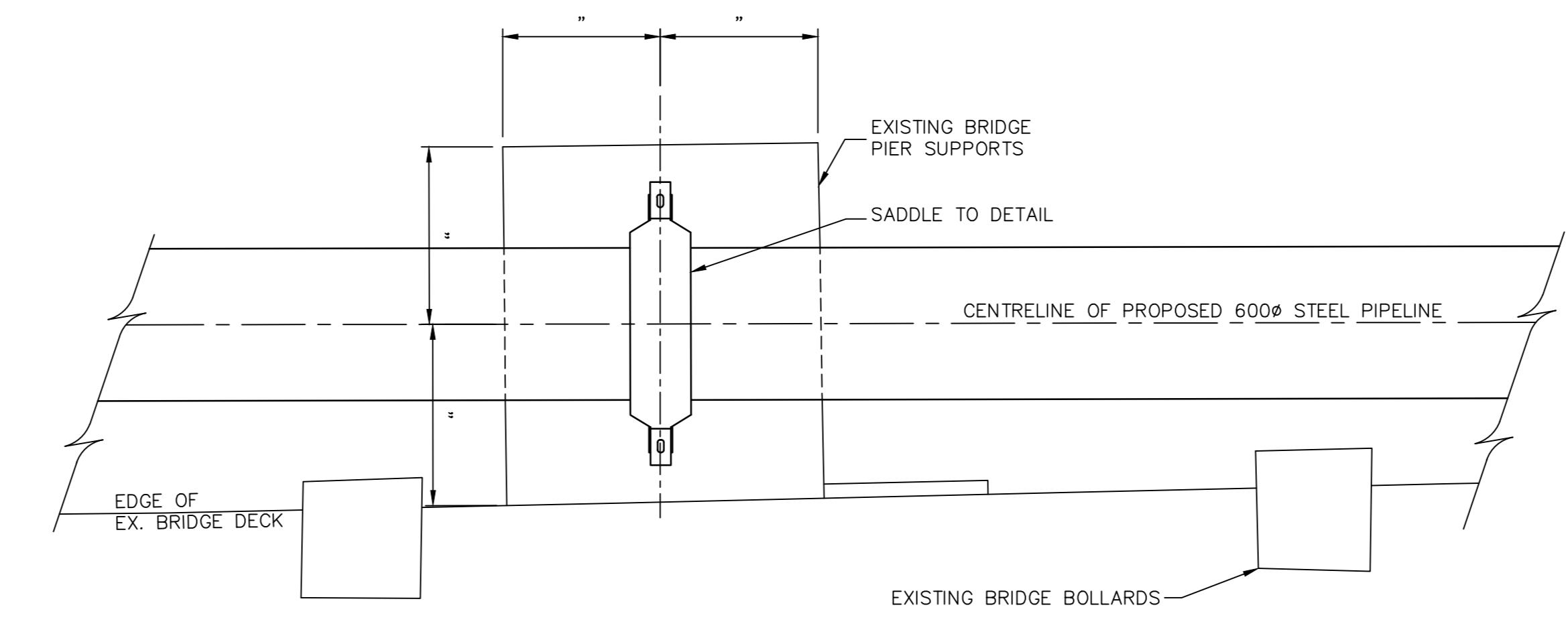
PART SITE PLAN
1 : 50



PROJECTED PLAN OF SADDLE (2 No.)
1 : 10



SECTION THROUGH TOP OF EX. BRIDGE PIERS (2 No.)
1 : 10



PART PLAN - INDICATING CONNECTION BETWEEN EXISTING BRIDGE PIERS AND PROPOSED PIPELINE (2 No.)
1 : 20

REFERENCE	VP1	SV15	VP1	PI 111	PI 111a	PI 111b	VP1
DISTANCE	20324.55	20356.00	20356.99	20361.09	20392.64	20394.00	20400.00
GROUND LEVEL	864.56	863.59	861.45	861.45	861.47	861.48	863.52
PIPE INVERT LEVEL	862.86	863.59	861.45	861.45	861.47	861.48	863.52
DEPTH TO INVERT	2.14	2.14	2.14	2.14	2.14	2.14	2.14
GRADE (%)	-9.82	-4.35			0.08		11.26
PIPE DETAILS	600 NB x 6mm WALL THICKNESS, GRADE X42 MILD STEEL PIPE			450 NB x 4.5mm WALL THICKNESS, GRADE X42 MILD STEEL PIPE			

PART LONGITUDINAL SECTION
HOR - 1 : 500; VER - 1 : 250

REV	DATE	DESCRIPTION	NAME	SIGNATURE
0	SEP 12	FOR CONSTRUCTION		

DESIGNED	BY	DRAWN	CHECKED
M. BAILLIE	M. BAILLIE	S. BURKE	

UMCENI WATER APPROVAL

DESIGN ENGINEER	NAME	SIGNATURE	DATE
STEPHEN BURKE			
ENGINEERING MANAGER	NAME	SIGNATURE	DATE
ALAN KOCKOTT			
OPERATIONS	NAME	SIGNATURE	DATE
MONICA MALUNGA			
ASSET MANAGER	NAME	SIGNATURE	DATE
ERIC NENE			
GENERAL MANAGER	NAME	SIGNATURE	DATE
EDNICK MSWELI			

310 Burger Street
Pietmaritzburg
3201
Tel 033 341 1111

RICHMOND PIPELINE

LINE TO RICHMOND
OLD RICHMOND BRIDGE CROSSING
© DIST. 20374
& INSULATING FLANGE DETAIL

SITE PLAN, LONGITUDINAL SECTION & DETAIL

FILE No.	SCALE	SHEET
46047.dwg	AS SHOWN	1 of 1
CONTRACT No.	DRAWING No.	REVISION
2011/223	46056	0