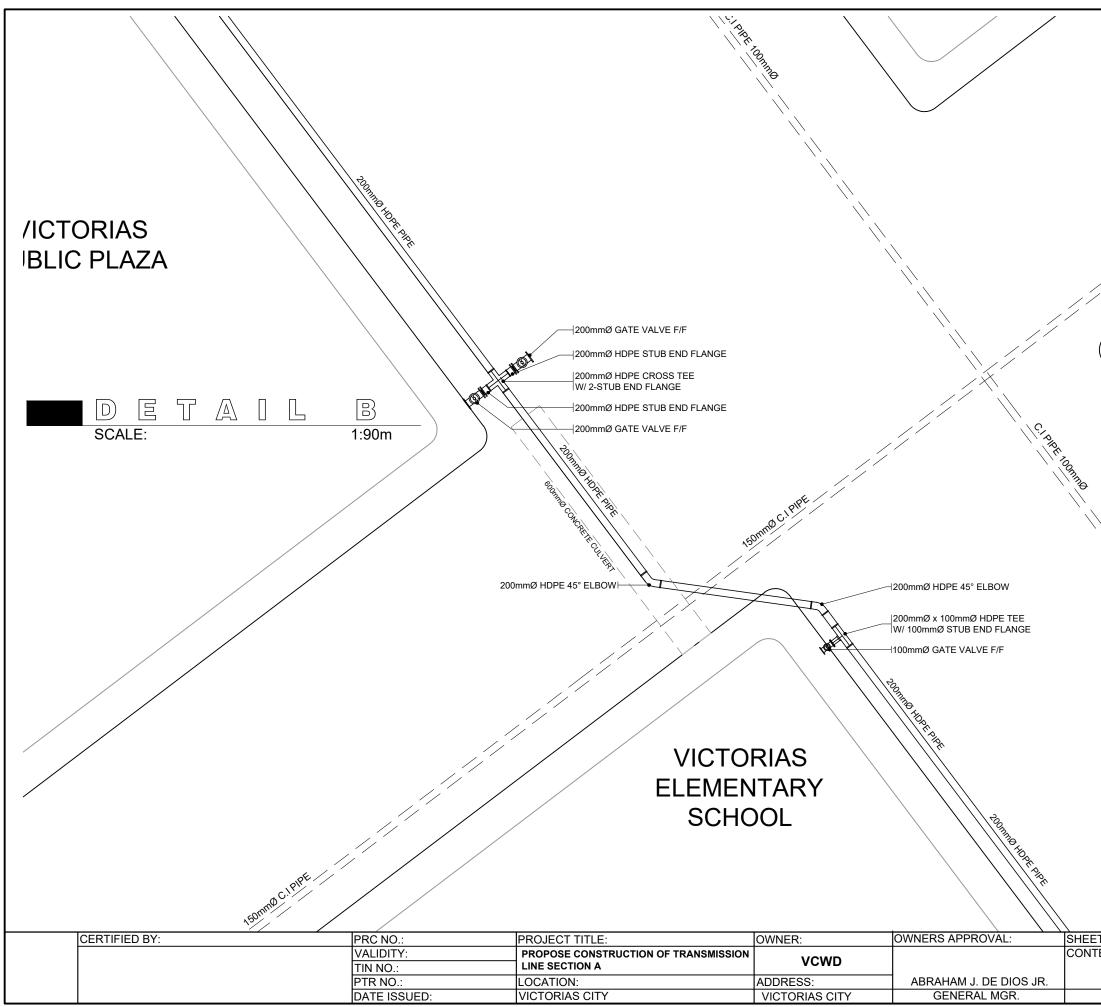
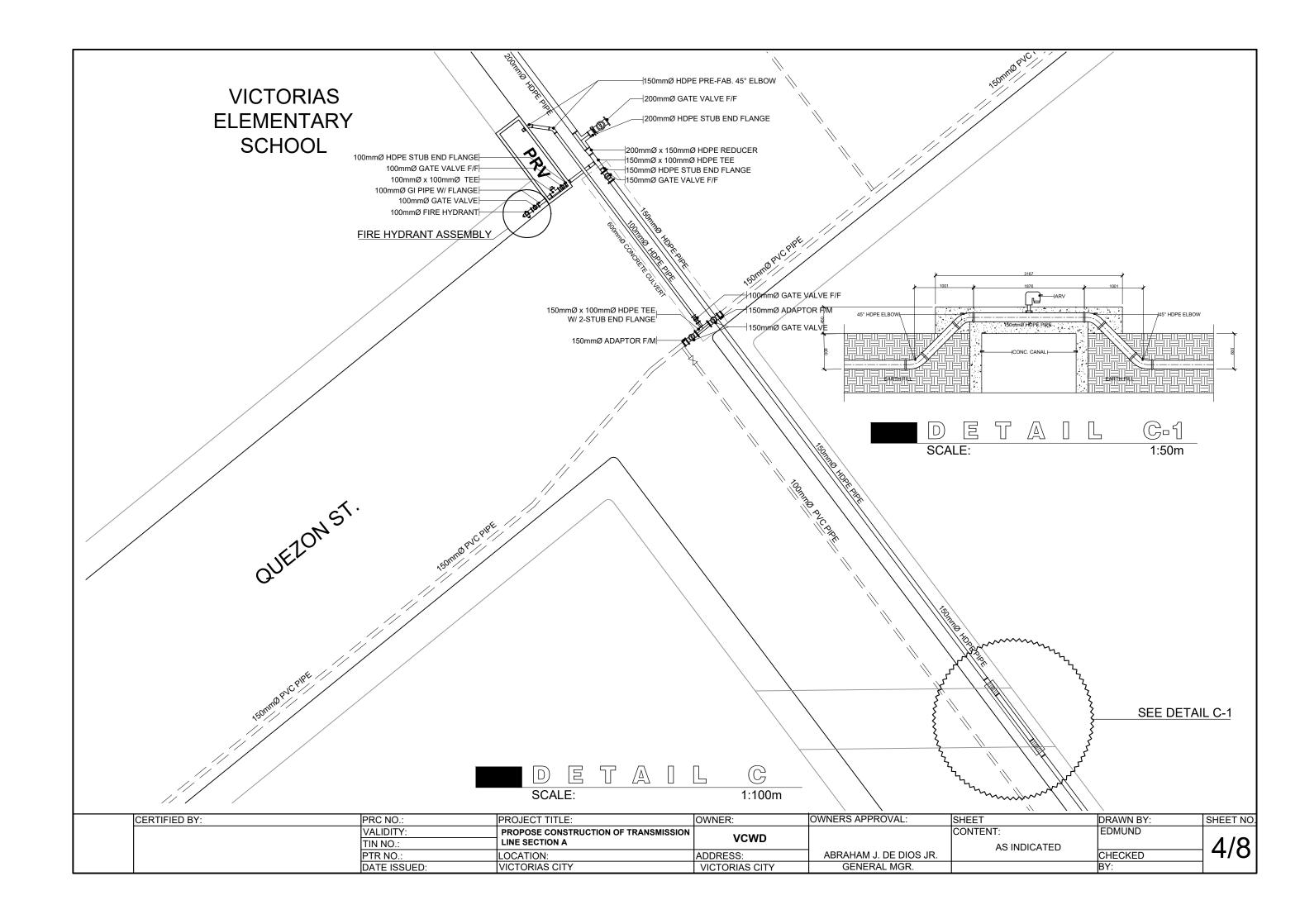
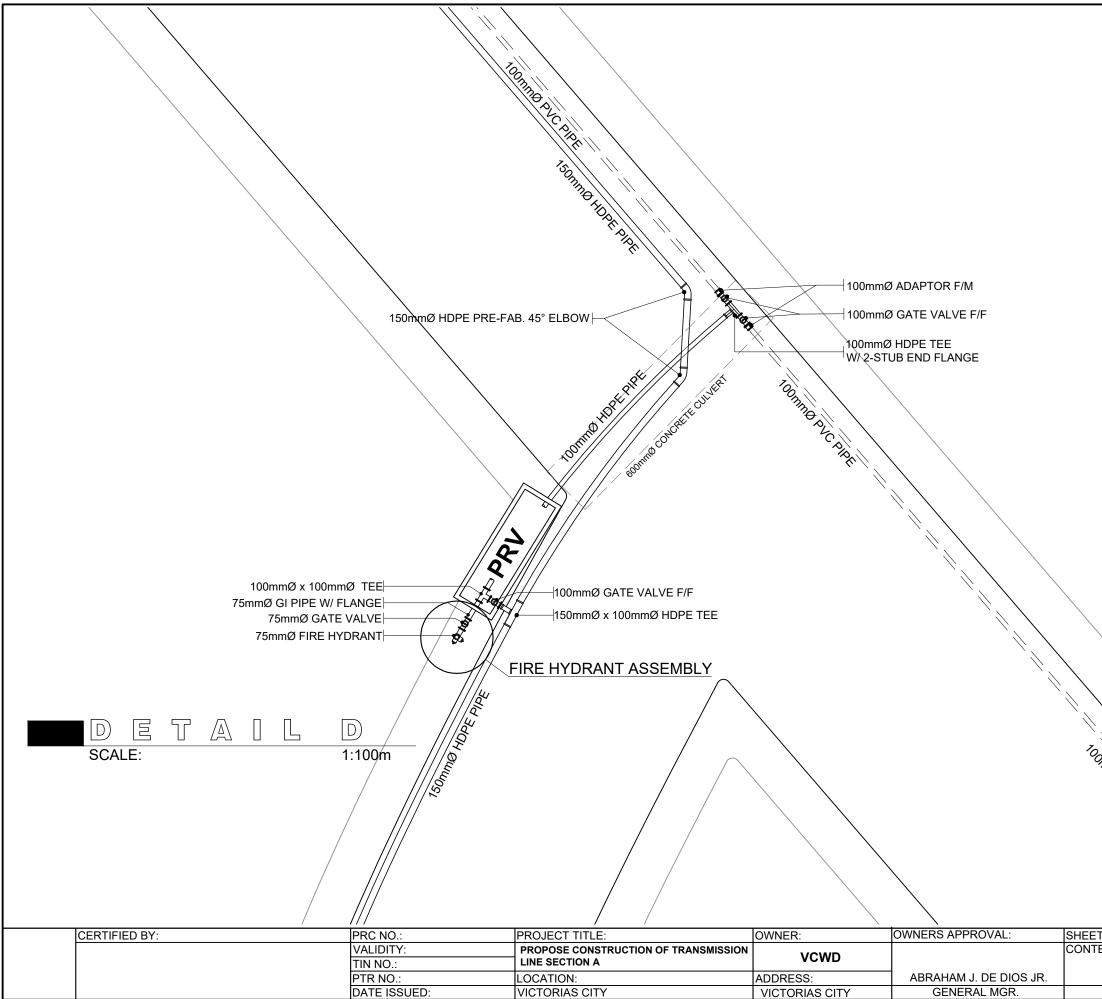


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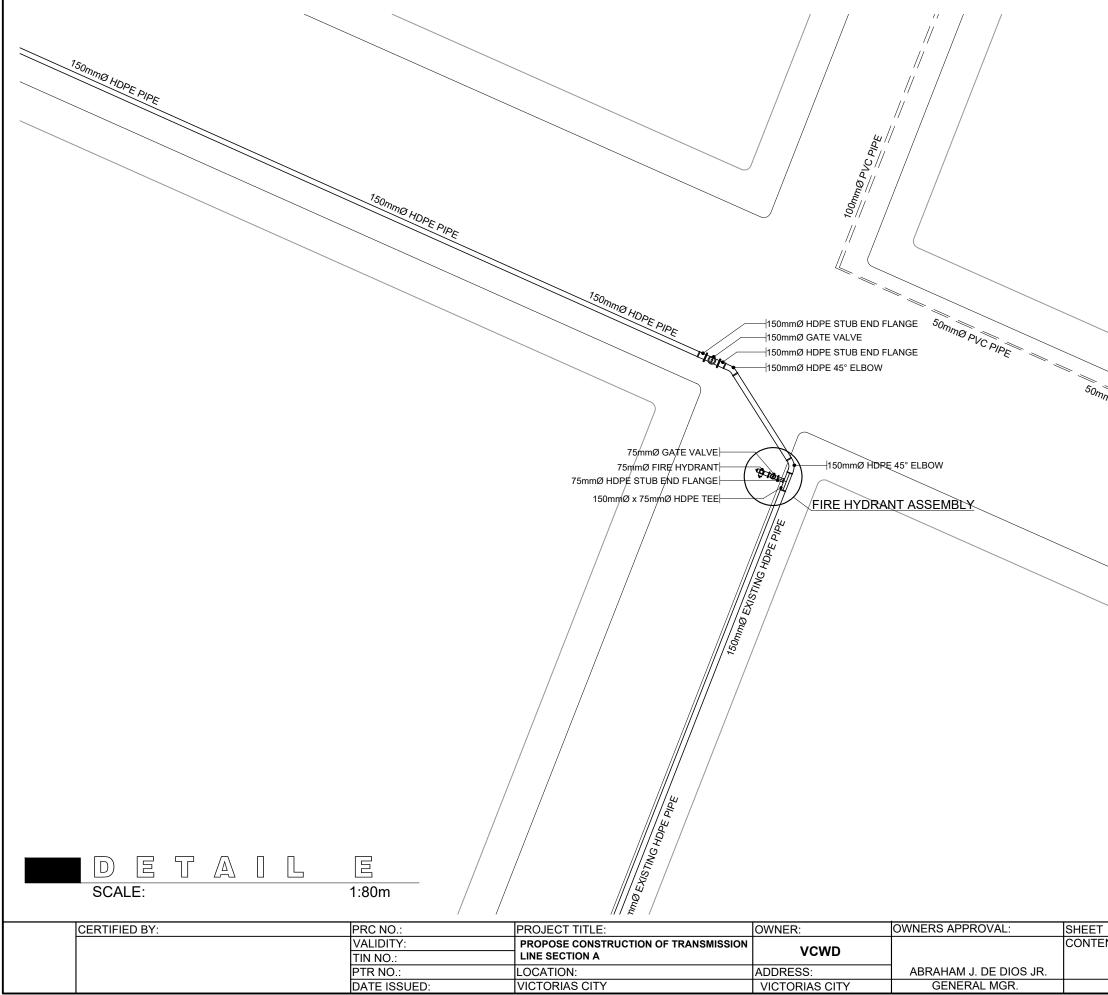


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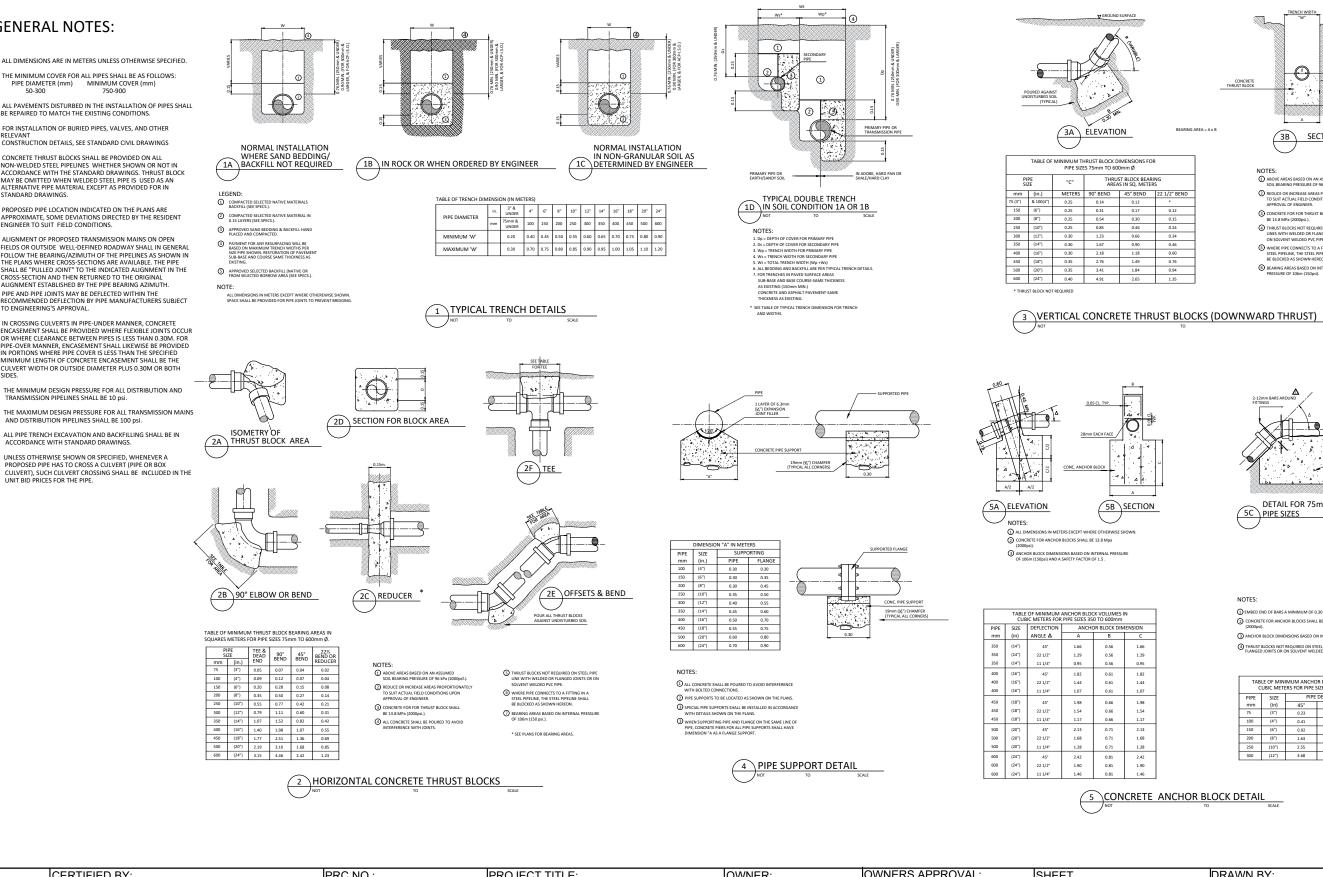
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GENERAL NOTES:

- 1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2. THE MINIMUM COVER FOR ALL PIPES SHALL BE AS FOLLOWS: PIPE DIAMETER (mm) 50-300
- 3. ALL PAVEMENTS DISTURBED IN THE INSTALLATION OF PIPES SHALL BE REPAIRED TO MATCH THE EXISTING CONDITIONS.
- 4. FOR INSTALLATION OF BURIED PIPES, VALVES, AND OTHER RELEVANT CONSTRUCTION DETAILS. SEE STANDARD CIVIL DRAWINGS
- 5 CONCRETE THRUST BLOCKS SHALL BE PROVIDED ON ALL CUNCRETE THROST BLOCKS STREET BE PROVIDED ON ALL NON-WELDED STEEL PIPELINES WHETHER SHOWN OR NOT IN ACCORDANCE WITH THE STANDARD DRAWINGS. THRUST BLOCK MAY BE OMITTED WHEN WELDED STEEL PIPE IS USED AS AN ALTERNATIVE PIPE MATERIAL EXCEPT AS PROVIDED FOR IN STANDARD DRAWINGS.
- 6. PROPOSED PIPE LOCATION INDICATED ON THE PLANS ARE APPROXIMATE, SOME DEVIATIONS DIRECTED BY THE RESIDENT ENGINEER TO SUIT FIELD CONDITIONS.
- 7. ALIGNMENT OF PROPOSED TRANSMISSION MAINS ON OPEN FIELDS OR OUTSIDE WELL DEFINED ROADWAY SHALL IN GENERAL FOLLOW THE BEARING/AZIMUTH OF THE PIPELINES AS SHOWN IN THE PLANS WHERE CROSS-SECTIONS ARE AVAILABLE. THE PIPE SHALL BE "PULLED JOINT" TO THE INDICATED ALIGNMENT IN THE CROSS-SECTION AND THEN RETURNED TO THE ORIGINAL
- ALIGNMENT IS INBUSHED BY THE PIPE BEARING AZIMOTH. 8. PIPE AND PIPE JOINTS MAY BE DEFLECTED WITHIN THE RECOMMENDED DEFLECTION BY PIPE MANUFACTURERS SUBJECT TO ENGINEERING'S APPROVAL.
- 9. IN CROSSING CULVERTS IN PIE-ENCASEMENT SHALL BE PROVIDED WHERE FLEXIBLE JOINTS OCCUR OR WHERE CLEARANCE BETWEEN PIPES IS LESS THAN 0.30M. FOR PIPE-OVER MANNER, ENCASEMENT SHALL LIKEWISE BE PROVIDED IN PORTIONS WHERE PIPE COVEN IS LESS THAN THE SPECIFIED MINIMUM LENGTH OF CONCRETE ENCASEMENT SHALL BE THE CULVERT WIDTH OR OUTSIDE DIAMETER PLUS 0.30M OR BOTH SIDES.
- 10. THE MINIMUM DESIGN PRESSURE FOR ALL DISTRIBUTION AND TRANSMISSION PIPELINES SHALL BE 10 psi.
- 11. THE MAXIMUM DESIGN PRESSURE FOR ALL TRANSMISSION MAINS AND DISTRIBUTION PIPELINES SHALL BE 100 psi.
- 12. ALL PIPE TRENCH EXCAVATION AND BACKFILLING SHALL BE IN ACCORDANCE WITH STANDARD DRAWINGS.
- 13. UNLESS OTHERWISE SHOWN OR SPECIFIED, WHENEVER A UNLESS OF HERVISE SHOWN OF SPECIFIES, WHENEVER A PROPOSED PIPE HAS TO CROSS A CULVERT (PIPE OR BOX CULVERT), SUCH CULVERT CROSSING SHALL BE INCLUDED IN THE UNIT BID PRICES FOR THE PIPE.



CERTIFIED BY:	PRC NO.:	PROJECT TITLE:	OWNER:	OWNERS APPROVAL:	SHEET	DRAWN BY:	SHEET NO.
	VALIDITY:	PROPOSE CONSTRUCTION OF TRANSMISSION	VCWD		CONTENT:	EDMUND	
	TIN NO.:	LINE SECTION A	VCVVD		AS INDICATED		7/8
	PTR NO.:	LOCATION:	ADDRESS:	ABRAHAM J. DE DIOS JR.		CHECKED	
	DATE ISSUED:	VICTORIAS CITY	VICTORIAS CITY	GENERAL MGR.		BY:	

5 CONCRETE ANCHOR BLOCK DETAIL

E SIZES 350 TO 600mm					
ANCHO	OR BLOCK DIM	IENSION			
Α	В	С			
1.66	0.56	1.66			
1.29	0.56	1.29			
0.95	0.56	0.95			
1.82	0.61	1.82			
1.44	0.61	1.44			
1.07	0.61	1.07			
1.98	0.66	1.98			
1.54	0.66	1.54			
1.17	0.66	1.17			
2.13	0.71	2.13			
1.68	0.71	1.68			
1.28	0.71	1.28			
2.42	0.81	2.42			
1.90	0.81	1.90			
1.46 0.81 1.46					

	TABLE OF MINIMUM ANCHOR BLOCK VOLUMES IN CUBIC METERS FOR PIPE SIZES 75 TO 300mm					
PIPE	SIZE	SIZE PIPE DEFLECTION (Δ)				
mm	(in)	45°	22 1/2*	11 1/4°		
75	(3")	0.23	0.12	0.06		
100	(4")	0.41	0.21	0.10		
150	(6")	0.92	0.47	0.23		
200	(8")	1.63	0.83	0.42		
250	(10")	2.55	1.30	0.65		
300	(12")	3.68	1.87	0.96		

THRUST BLOCKS NOT REQUIRED ON STEEL PIPELINES WITH WELDED OR FLANGED JOINTS OR ON SOLVENT WELDED PVC PIPE.

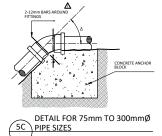
(3) ANCHOR BLOCK DIMENSIONS BASED ON INTERNAL PRESSURE

() EMBED END OF BARS A MINIMUM OF 0.30 METRE INTO CO ② CONCRETE FOR ANCHOR BLOCKS SHALL BE 13.8 Mpa. ▲ (2000psi).

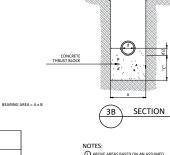
NOTES:



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(3A)	ELEVATIO	<u>N</u>	BEARING		
	HRUST BLOCK DI		t		
"C" THRUST BLOCK BEARING AREAS IN SQ. METERS					
METERS	90° BEND	45° BEND	22 1/2° BEND		
0.25	0.14	0.12	•		
0.25	0.31	0.17	0.12		
0.25	0.54	0.30	0.15		
0.25	0.85	0.46	0.24		
0.30	1.23	0.66	0.34		
0.30	1.67	0.90	0.46		
0.30	2.18	1.18	0.60		
0.35	2.76	1.49	0.76		
0.35	3.41	1.84	0.94		
0.40	4.91	2.65	1.35		
REQUIRED					



- ABOVE AREAS BASED ON AN ASSUMED SOIL BEARING PRESSURE OF 96 kPa (20) REDUCE OR INCREASE AREAS PROPORTION TO SUIT ACTUAL FIELD CONDITIONS UPON APPROVAL OF ENGINEER.

- 3 CONCRETE FOR FOR THRUST BLOCK SHALL BE 13.8 MPa (2000psi.).
- THRUST BLOCKS NOT REQUIRED ON STEEL PIPE LINES WITH WELDED OR FLANGED JOINTS OR ON SOLVENT WELDED PVC PIPE.

- ര
- WHERE PIPE CONNECTS TO A FITTING ON A STEEL PIPELINE, THE STEEL PIPELINE SHALL BE BLOCKED AS SHOWN HEREON.

- 6 BEARING AREAS BASED ON INTERNAL PRESSURE OF 106m (150psi).

