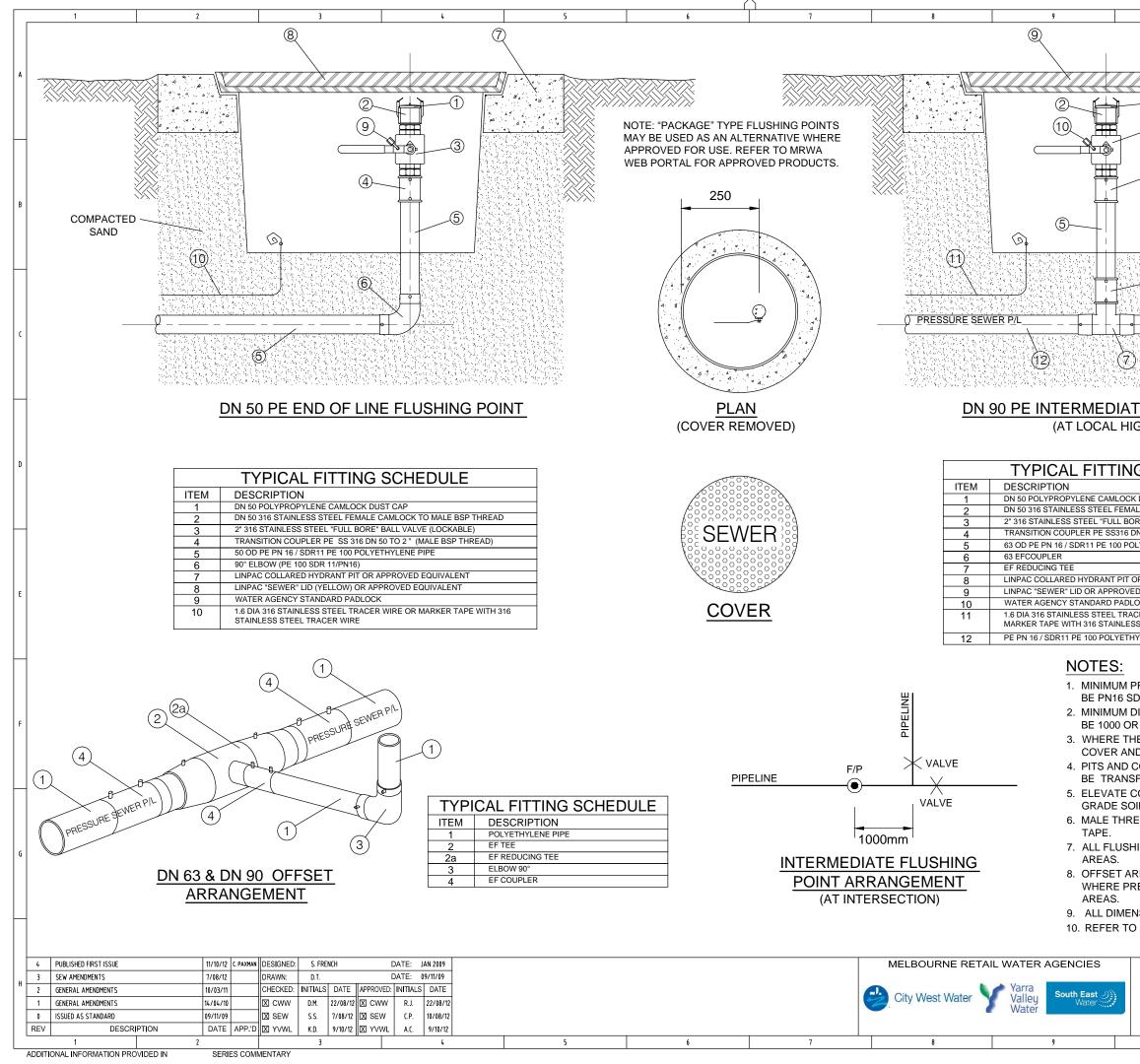


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	FICABLE AREAS. ERS TO BE A MINIMUM G FIONS OF ALL STAINLES		
ACENT TO PROPER	AND IN ACCORDANCE W RTY BOUNDARY. ) VENT WHERE APPROPI CORDANCE WITH WSA D	RIATE.	В
NGE ADAPTER TO	REDUCER SHALL BE MA	DE BY BUTT	
R INDUSTRY APPF D BE EPOXY COAT G POINTS TO TOP (			
CAL FITTING	SCHEDULE		C
AR PIT OR WATER APPROVED AIR V/ 1010-M	AUTHORITY APPROVED	EQUIVALENT	
SED STRIP			D
316 STAINLESS S	TEEL BACKING RING AND	BOLTED	
PPORT AB TO BE POUREI	D IN-SITU		
VENT (LENGTH AN	ID LOCATION TO BE DET	ERMINED ON	
W " MULTI VENT WITI )	H SELF TAPPING SCREW	S FOR FIXING	E
PIPE (LENGTH TO S /C 90° BEND ) ADAPTOR	SUIT)		
S MUST BE APPR	OVED FOR USE. REFER T R A DN63 PRESSURE SE		
			F
	WINIMU		
			G
RRANGEMEI		O OFFTAKE LEASE VALVE	
		SCALE: N.T.S @A3	
AIR VALVE	SEWER SYSTEM INSTALLATION GROUND	SCALE: N.T.S (#A3 SHEET: 1 OF 1 DRAWING No.: REV PSS-1011-M 4	H /
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PRESSURE SEWER		)		c
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	은 바람의 가지 가지 가지 있다. 			
TE FLUSHING	POINT			
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K DUST CAP				
ALE CAMLOCK TO MALE BS				
ORE" BALL VALVE (LOCKABL DN 63 TO 2" (MALE BSP THR				
OLYETHYLENE PIPE				
OR APPROVED EQUIVALEN	r			
ED EQUIVALENT	<u>'</u>			E
LOCK				
ACER WIRE OR				
HYLENE PIPE				
PRESSURE RATING F	OR ALL PIPEW	ORK AND F	TITTINGS IS TO	
SDR 11 PE 100.				
DISTANCE BETWEEN	FLUSHING PO	INTS AND V	ALVES IS TO	
R 10X DIAMETER (WH	IICHEVER IS G	REATER).		F
HE PIT MAY BE SUBJE			SS, THE PIT,	
ND SURROUND MUST				
COVERS ARE TO BE			OADING IS TO	
COVER UP TO 25 ABC			EVEL AND	
OIL AWAY TO PREVEN				
READ ON ALL FITTING	S MUST BE WF	RAPPED IN	PTFE (TEFLON)	
HING POINTS ARE TO	BE LOCATED	IN NON-TR/	AFFICABLE	G
RRANGEMENTS FOR RESSURE SEWER MA		,		
RECOORE OF WER IMP				
NSIONS IN MILLIMET	ERS.			
O MRWA WEB PORTA		/ED PIPES	AND FITTINGS.	
PRESSURE	SEWER SY	STEM	SCALE: N.T.S @A	1
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	A	FSL	 		TRENCH ZONE	PREFE	RRED MATE	ERIALS			PRODUC SPEC. N	CT Io. MET⊦	HOD OF PL/	ACEMENT		COMPACTION REQUIRED		Y & LOCATION OF TION TESTING	1.
	.	ц		Dom	PAVEMENT ZONE	REFER 1	O ROAD OWNER	RS SPECIFICATI	ΓΙΟΝ							98% R <sub>D</sub> TOP 100mm	THEREOF) THREE TES	TH OF TRENCH (OR PART 'S SHALL BE TAKEN: 00mm (IE WITHIN THE B/	
		IABL			SUB-BASE ZONE	REFER 1	O ROAD OWNER	RS SPECIFICATI	ΓΙΟΝ									ISTING ROAD; GE 100mm TO 300mm D AVEMENT SUB-BASE).	ЕРТН
				- MARKER TAPE	BACKFILL ZONE	WITH MF a. FOR THE E CRUS b. FOR 0 0 TC 20 RE c. FOR c. FOR	RWA BACKFILL S IRENCHES <1.5 BACKFILL SHALL SHED ROCK, FOR IRENCHES > 1.5	SPEC - MRWA SF METRES DEEP ( . BE 20mm CLAS R THE FULL DEP METRES (OTHE ANT WET MIXED R BETTER) CRUS ER FOOTPATHS	SPEC 04-03: (OTHER TH/ SS 2 PLANT ) PTH. IER THAN FO D CRUSHED JSHED ROCK S:	OOTPATHS): ROCK FOR THE ( FOR THE	VIC ROAD SPEC 812	AROUN HAUNCE WITH G WHERE TAMPEF ROLLER: REQUIR THE BAC COMPA LOOSE T	ED MATERIALS S ID THE PIPE TO I HES ARE FILLED GOD SUPPORT COMPACTION RS, SURFACE PL S OR INTERNAL ED COMPACTIC CKFILL MATERIA INTER IN LAYERS THICKNESS, AND	ENSURE ALL VC AND THE PIPE ALONG ITS EN IS REQUIRED, L ATE VIBRATORS VIBRATORS TC DN. AL SHALL BE PL S NOT EXCEEDI D SHALL BE MC	DIDS AT IS PROVIDED TIRE LENGTH. JSE HAND S, VIBRATING D ACHIEVE ACED AND NG 200mm DISTURE	95% R <sub>D</sub>	THEREOF) ONE TEST S LAYERS OF BACKFILL I LAYERS TO BE TESTED RANDOMLY. THE POS TESTED, AND THE LOO VARY FROM TEST TO	SHALL BE SELECTED TION OF THE LAYER TO E ATION OF THE TEST, SHA	) E .LL
	C				EMBEDMENT ZONE	a. EME b. 5mn <u>SUBJEC</u> c. SING • RE	BEDMENT SAND	ED ROCK THORITY APPRO REGATE (10mm, SE OF GEOTEXT	n, 14mm, 20m TILE FABRIC	WRAPPING	WSA-PS-36 WSA-PS-36 - WSA-PS-36 WSA-PS-36	COMPA 60 81 COMPA 8ACKFIL 51 200mm WHERE 61 BACKFIL	FIONED AS REQU CITION TO THE I HAND HELD OF CITION EQUIPM LL ZONE, AVOID FROM THE TOF HEAVIER COMF LL ZONE, AVOID FROM THE TOF	REQUIRED DEN R WALK BEHINI IENT IS USED O O COMPACTION P OF PIPE. PACTION IS USI O COMPACTION	ISITY. D N THE WITHIN ED ON THE	70% i <sub>D</sub>	PREFERRED GRANULA IN ACCORDANCE WIT PLACEMENT AND COM		LED
				7				N		RAFFICAB		EAS							
		FSL			TRENCH ZONE	PREFE	RRED MATE				PRODUC SPEC. N			ACEMENT		COMPACTION		Y & LOCATION OF	
				600mm		a. SELE M/ DE IM TH	TO MRWA BACKF CTED FILL ATERIAL THAT IS ELETERIOUS MAT PORTED, WITH A IAN 20mm, OR F( IAN 75mm (REFE	S FREE FROM OF TERIAL, OBTAIN A PARTICLE SIZE OR OTHER THAN	DRGANIC OR NED FROM E ZE OF ROCK AN ROCK NO	OTHER EXCAVATION OR NOT GREATER		WHERE TAMPEF ROLLERS THE BAC COMPA	COMPACTION I RS, SURFACE PL S OR INTERNAL CKFILL MATERIA CTED IN LAYERS THICKNESS, ANE	ATE VIBRATOR VIBRATORS. AL SHALL BE PL S NOT EXCEEDI	S, VIBRATING ACED AND NG 200mm	95% R <sub>D</sub> TOP 600mm	1 TEST PER 2 LAYERS I	TION TESTING	3.
				MARKER TAPE	BACKFILL ZONE	REFER T a. SELE b. ORDII MA TH FR NO	IAN / SHIIII (REFE O' MRWA BACKF CTED FILL 5 PER TOP 600mr NARY FILL TTERIAL OBTAIN IAT CONTAINS N AGMENTS WITH 5 ROCK OR CLAY EFER AS2566.2-2	FILL SPEC - MRW m OF BACKFILL ED FROM EXCA IOT MORE THAN I SIZE BETWEEN Y FRAGMENTS G	WA SPEC 04 - AVATION OR N 20% BY M/ N 75mm ANE	NMPORTED ASS OF ROCK D 150mm, WITH		CONDIT COMPA WHERE USED, A CONFIRI WHERE COMPA BACKFIL 200mm WHERE BACKFIL	INTENTICA, AND IONED AS REQU CTION TO THE F HEAVIER MECH I TRIAL COMPACE M THE MAXIMU HAND HELD OF CTION EQUIPM L ZONE, AVOID FROM THE TOF HEAVIER COMF L ZONE, AVOID FROM THE TOF	UIRED TO FACIL REQUIRED DEN HANICAL COMP CTION TEST IS F UM LIFT THICKI R WALK BEHINE IENT IS USED O COMPACTION P OF PIPE. PACTION IS USI O COMPACTION IS USI	LITATE ISITY. ACTION IS REQUIRED TO VESS. D N THE WITHIN ED ON THE	90% R <sub>D</sub>	1 TEST PER 2 LAYERS I	'ER 100m LENGTH.	4. 5. 6.
	F				EMBEDMENT ZONE	AS PER	TRAFFICABLE EI	MBEDMENT ZON	DNE							60% i <sub>D</sub>	PREFERRED GRANULA IN ACCORDANCE WIT PLACEMENT AND COM		LED 7.
		4	 Lc													•			1
		P		-			ENT ZON				Г			חום	E COV	ED			
		I	I								╞						KIMUM COVER		
					SIZE (DN		Lc	Lb		Lo	F		PROPERT		450				
					≤ 110		75	75		100	F				400				
	G				> 110, ≤ 1	40	100	75		100		NON TR	PROPERTY AFFICABLE	E	900		1500		
					> 140, ≤ 3	15	150	100		150		IKAFFIC	ABLE AREA	10	1200				

	4	PUBLISHED FIRST ISSUE	11/10/12 C. PAXMAN	DESIGNED:	S. FR	INCH .		DATE:	JAN 2009				MELBOURNE RETA	L WATER AGEN	1CIES
	3	SEW AMENDMENTS	7/08/12	DRAWN:	D.T.			DATE:	09/11/09						
"	2	GENERAL AMENDMENTS	10/03/11	CHECKED:	INITIALS	DATE	APPROVED	: INITIAL:	S DATE				City Mart Mater	Yarra Sout	th East 🔊
	1	GENERAL AMENDMENTS	14/04/10	🖾 CMM	D.M.	22/08/12	🛛 CWW	R.J.	22/08/12				City West Water	Valley Sout	Water
	0	ISSUED AS STANDARD	09/11/09	🖾 SEW	S.S.	7/08/12	🖾 SEW	C.P.	10/08/12					Water	
	REV	DESCRIPTION	DATE APP.'D	VWL	K.D.	9/10/12	X YVWL	A.C.	9/10/12						
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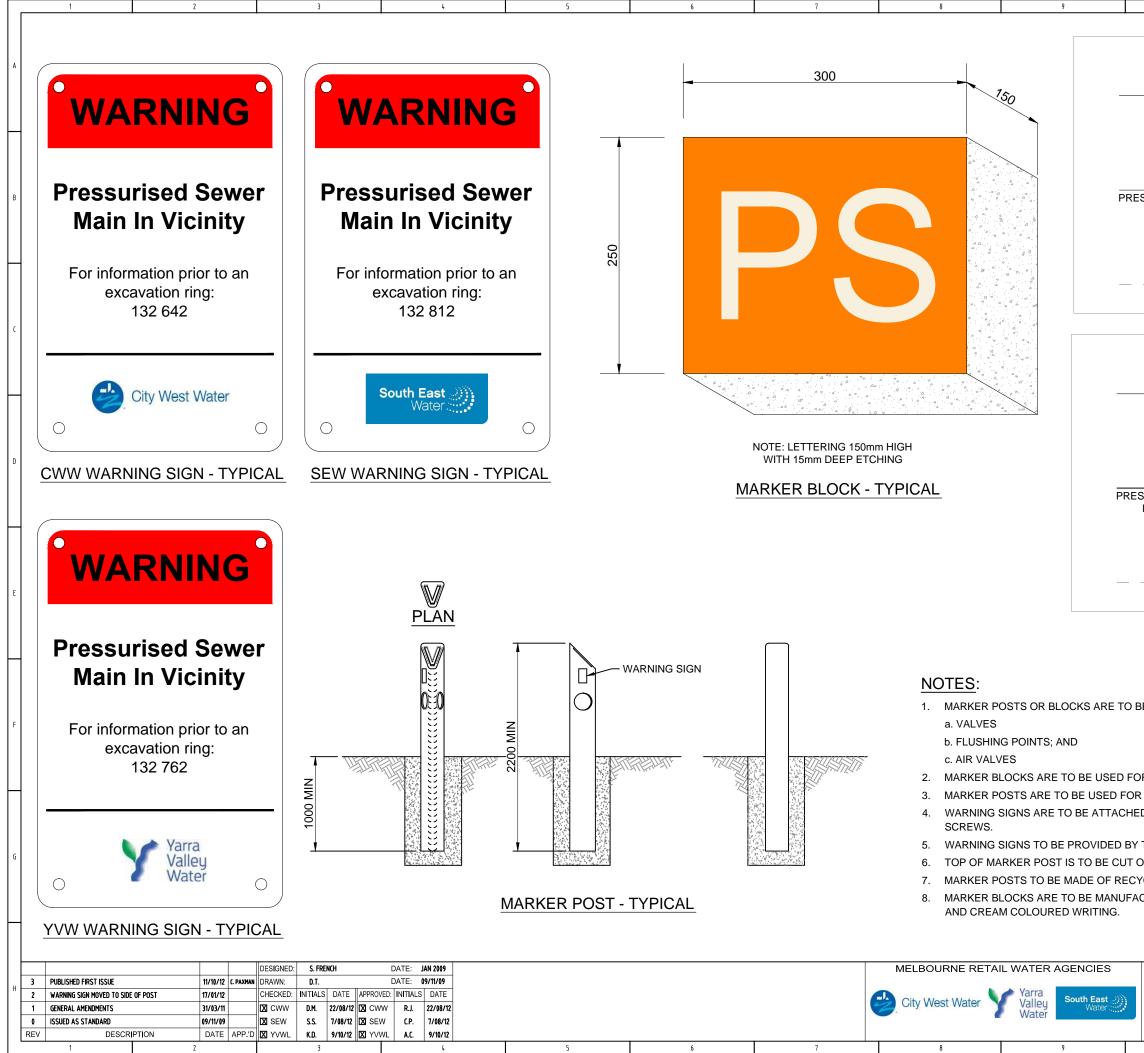
ADDITIONAL INFORMATION PROVIDED IN SERIES COMMENTARY

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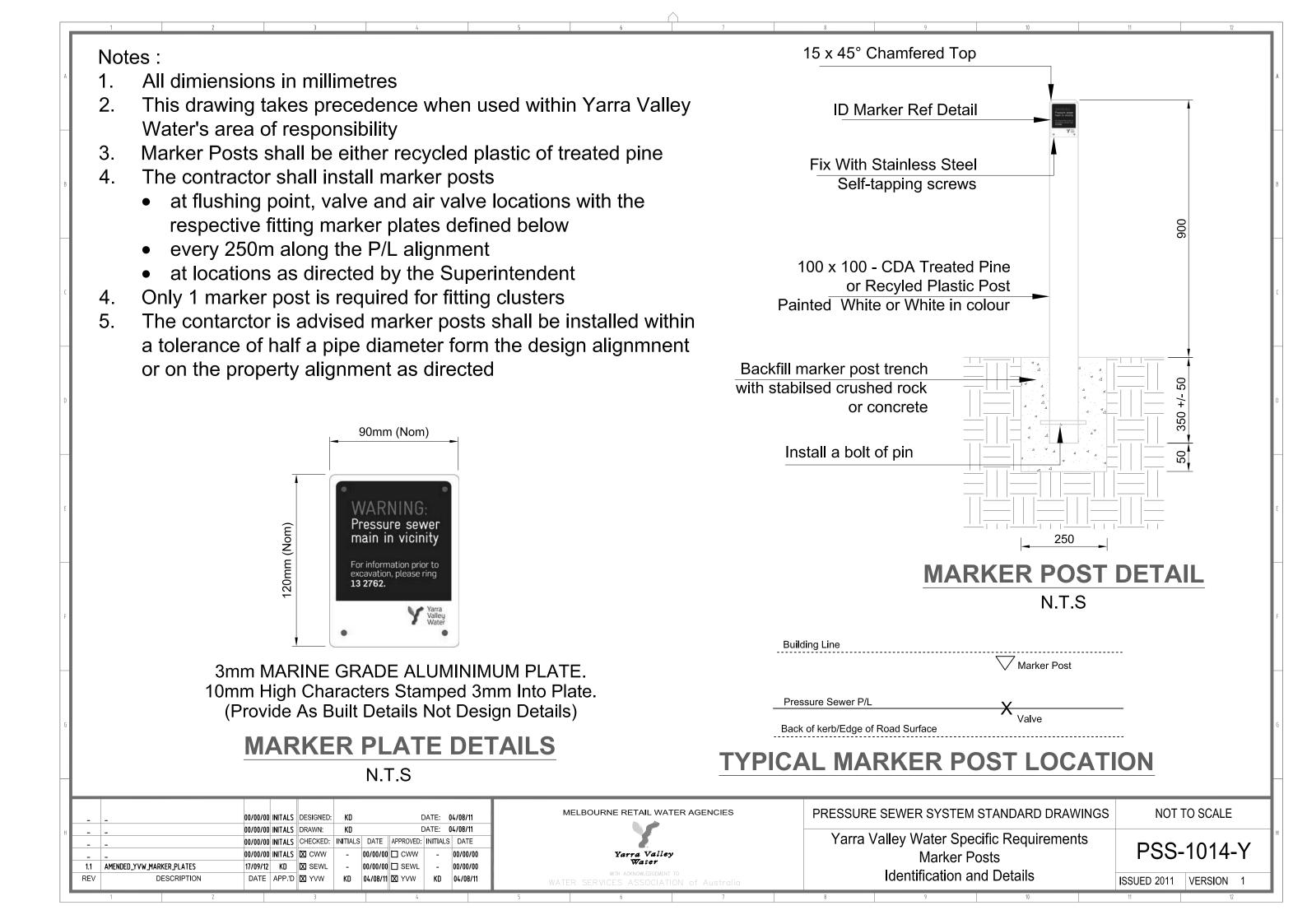
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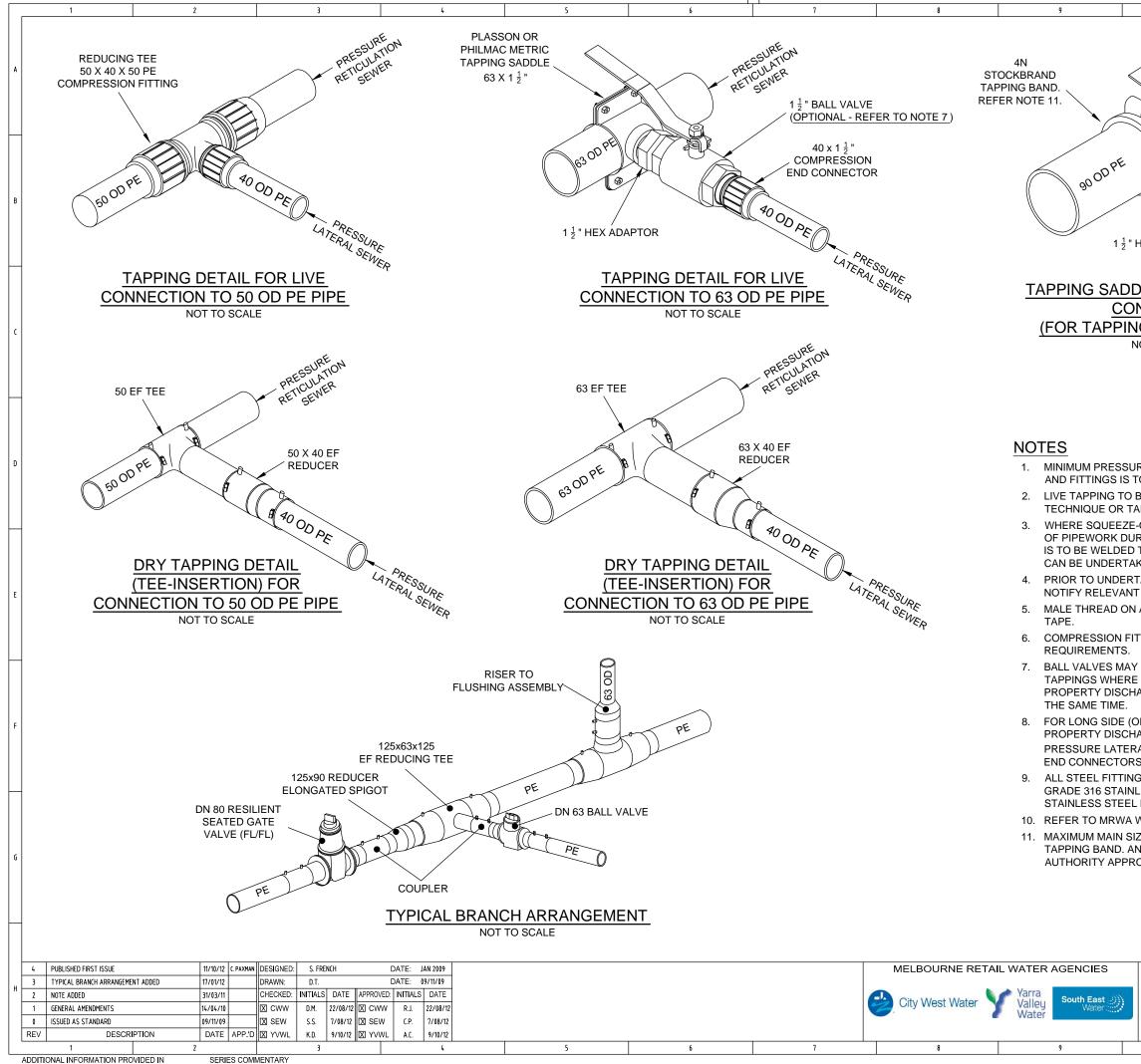
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	10	11	12	]
	NOTES:			
=		POSES OF BACKFILL, TR	AFFICABLE AREAS	A
r ASE	a. THE FULL ROAD CAR	WIDTH OF ANY EXISTING RIAGEWAY PLUS SHOUL ANCE BEHIND THE KERB	DERS, KERB AND	
DEPTH T O BE ALL	<ul> <li>SEWER MA</li> <li>b. THE PART</li> <li>OF KERB E</li> <li>TO A MAXI</li> <li>c. THE FULL</li> <li>DRIVEWAY</li> <li>METRE EIT</li> <li>d. THE FULL</li> <li>(INCLUDIN</li> </ul>	AIN COVER, TO A MAXIMU OF THE NATURE STRIP N QUAL IN WIDTH TO SEW MUM OF 1 METRE. WIDTH OF ANY PROPERT OR PARKING AREA AND HER SIDE. LENGTH OF ANY CONSTR G, BUT NOT LIMITED TO (	JM OF 1m. NEXT TO THE BACK ER MAIN COVER, TY ACCESS EXTENDING ONE RUCTED FOOTPATH CONCRETE,	В
DR D LLED	e. THE FULL f. ANY OTHE AREAS (e.g. g. ANY OTHE COMPACT SUBSIDEN FITTINGS). 2. SPECIFIC BEI DIFFERENT T	DDING & BACKFILL REQU O THAT DESCRIBED HER	STRIP. D AS TRAFFIC RACKS). COLLED IMISE POTENTIAL IF SURFACE IREMENTS E MUST BE	c
=	SPECIFIED TO FLOOR WHER a. IRREGULA b. ALLOWABI (AHBP) OF c. UNCONTR 3. SIDES OF EXO LEAST 150 AB	R OUTCROPS OF ROCK. LE HORIZONTAL BEARING	OF THE TRENCH OF PRESSURE ERTICAL TO AT	D
	5. DETECTABLE SEWER MAIN OF THE EMBE TRENCHED P 6. WHERE SQUE ISOLATE SEC CONSTRUCTI BE WELDED T	EZE-OFF TECHNIQUES A TIONS OF PIPEWORK DU ON, AN ELECTROFUSION O ENSURE NO FURTHER	NG "CAUTION - E PLACED ON TOP ALL OPEN ARE USED TO RING I COUPLER IS TO SQUEEZING	E
) LLED	LOCATION. 7. THE MAXIMUI UNLESS OTHI CONSTRUCTI	CAN BE UNDERTAKEN A M COVER OVER THE MAIN ERWISE SPECIFIED ON T ON DRAWINGS OR APPR OJECT SUPERINTENDEN	N IS TO BE 1.5m, HE OVAL IS OBTAINED	F
				G
	TREN	SEWER SYSTEM CH DETAILS S AND MATERIALS	SCALE: N.T.S @A3 SHEET: 1 OF 1 DRAWING No.: REV PSS-1013-M 4	H
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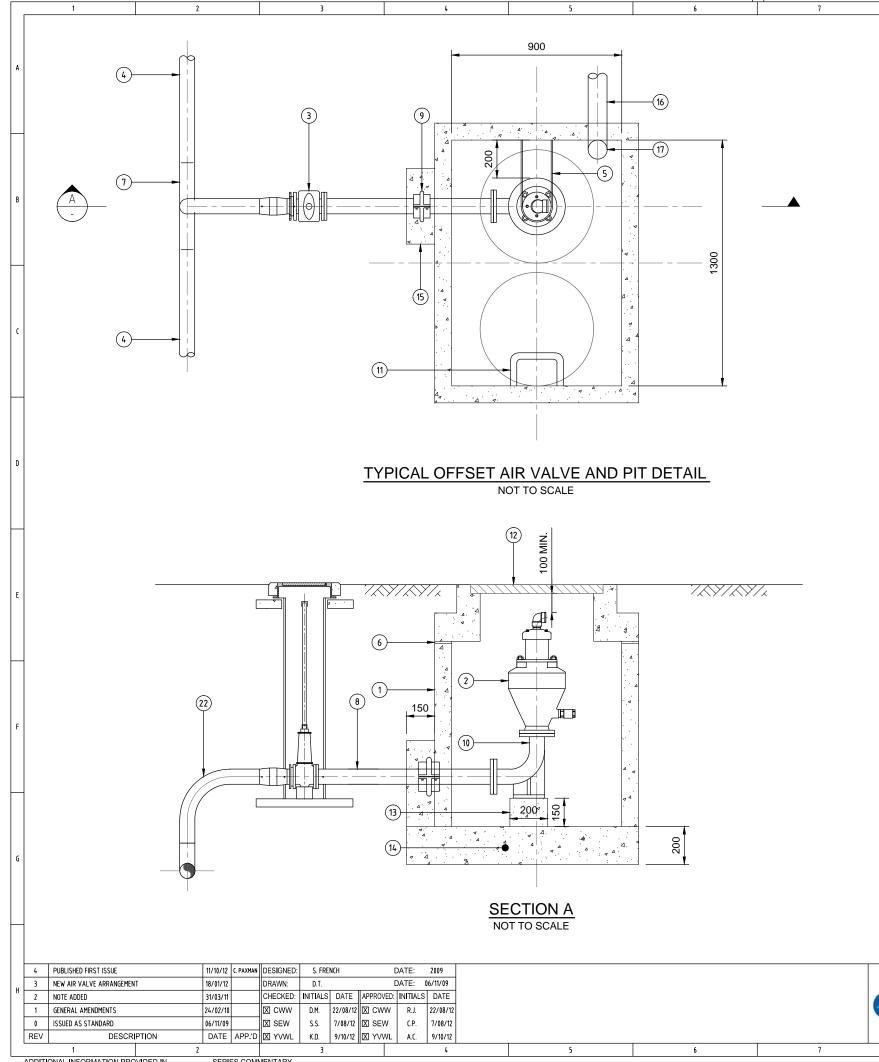


LOCALITY PLAN TYPICAL PROPERTY BOUNDARY	A
SSURE SEWER VALVE PIPELINE MARKER BLOCK	В
	C
MARKER POST MARKER POST SSURE SEWER PIPELINE VALVE	D
EDGE OF FORMATION	E
BE LOCATED AT ALL FITTING LOCATIONS, INCLUDING:	F
R FITTINGS ADJACENT TO UNSEALED ROADWAYS. D TO ALL POSTS USING SELF TAPPING STAINLESS STEEL THE RELEVANT WATER AUTHORITY. DFF SQUARE IF NOT BEING USED AS A VALVE INDICATOR POST. (CLED PLASTIC, COLOURED GREEN. CTURED IN CONCRETE, WITH THE TOP COLOURED ORANGE	G
SCALE: N.T.S     @A3       PRESSURE SEWER SYSTEM     SHEET: 1 OF 1       MARKER POSTS AND MARKER BLOCKS     DRAWING No.:       TYPICAL ARRANGEMENT     PSS-1014-M       10     11	Н





10 11 12	,
REN	
PRESSURE RETCULATION RETCULATION	
RETSEWER	A
DN40 BALL VALVE	
(OPTIONAL - REFER / TO NOTE 7)	
40 x 1 ½"	
COMPRESSION END CONNECTOR	
	В
HEX ADAPTOR	
HEX ADAPTOR	
DLE FOR LIVE AND DRY NNECTIONS VGS 90 TO 280 OD PE)	
NNECTIONS	
NGS 90 TO 280 OD PE)	
NOT TO SCALE	C
	D
JRE CLASS AND PIPE COMPOUND FOR ALL PIPEWORK TO BE PN16 / SDR11 PE 100.	
BE UNDERTAKEN BY USING SQUEEZE-OFF	
APPING UNDER PRESSURE.	
E-OFF TECHNIQUES ARE USED TO ISOLATE SECTIONS IRING CONSTRUCTION, AN ELECTROFUSION COUPLER	
TO ENSURE NO FURTHER SQUEEZING OPERATIONS	
TAKING LIVE TAPPINGS, THE CONTRACTOR SHALL T OPERATION PERSONNEL.	E
I ALL FITTINGS MUST BE WRAPPED IN PTFE (TEFLON)	Ľ
ITTINGS TO BE INSTALLED AS PER MANUFACTURER'S	
Y NOT BE REQUIRED ON DRY TAPPINGS (OR LIVE	
E SQUEEZE-OFF TECHNIQUES ARE USED) WHEN THE	
IARGE LINE AND BOUNDARY KIT ARE INSTALLED AT	
OPPOSITE SIDE OF STREET) TAPPINGS OR WHERE	F
HARGE LINES ARE GREATER THAN 30m LONG, 50mm	
RAL SEWERS SHALL BE USED (i.e. BY USING 50mm x 1 $\frac{1}{2}$ " RS AT THE TAPPING OR 63-50mm REDUCERS).	
IGS, NUTS, BOLTS AND WASHERS TO BE MINIMUM	
ILESS STEEL. COAT THE THREADED SECTIONS OF ALL L BOLTS WITH ANTI-SEIZE LUBRICANT.	$\mathbb{H}$
WEB PORTAL FOR APPROVED PIPES AND FITTINGS.	
IZE OF 280 OD TO BE USED FOR 4N STOCKBRAND	
NY LARGER FITTINGS WILL REQUIRE WATER	G
ROVAL.	
	$\vdash$
SCALE: N.T.S @A3	$\left  \right $
PRESSURE SEWER SYSTEM	
PRESSURE SEWER LATERALS	
TYPICAL TAPPING INSTALLATION PSS-1015-M 4	
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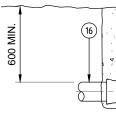


## NOTES:

- 1. MINIMUM PRESSURE RATING FOR ALL PIPEWO
- 2. ALL DI PIPEWORK AND FITTINGS SHALL BE EPO
- 3. AIR VALVES ARE NOT TO LOCATED IN TRAFFIC
- ALL BACKING RINGS, NUTS, BOLTS AND WASH 4 COAT THE THREADED SECTIONS OF ALL STAIN
- 5. GASKET MATERIAL TO COMPLY WITH AS 4087
- 6. LOCATE GROUND VENT ADJACENT TO PROPER
- 7. PLACE SCREENING BUSHES AROUND GROUND
- CONTRACTOR TO INSTALL EDUCT VENT IN ACC 8. REQUIRED).
- 9. FUSION JOINTING OF PE FLANGE ADAPTER TO
- 10. ALL CONCRETE TO BE WATER INDUSTRY APPR
- 11. ALL INTERNAL SURFACES TO BE EPOXY COAT
- 12. PROVIDE APPROVED LIFTING POINTS TO TOP

ITEMDESCRIPTION1ROCLA RECTANGULAR PIT OR WATER A2WATER AUTHORITY APPROVED AIR VA3VALVE AS PER PSS-1010-M4PRESSURE SEWER5STEEL BRACING610mm THICK BITUMISED STRIP7PE TEE8DIEL PIPE (LENGTH TO SUIT)9PUDDLE FLANGE10FLANGED DIEL DUCKFOOT BEND11STEP IRONS12Ø600 MANHOLE COVER13CONCRETE PIPE SUPPORT14CONCRETE BASE SLAB TO BE POURED15CONCRETE COLLAR16DN100 PVC 90° ELBOW18"CREVET PIPELINES" MULTI VENT WITH19DN100 (SOC-SOC) PVC 90° BEND20DN100 (SOC-SOC) PVC 90° BEND21DN100 PVC (SOC-SP) ADAPTOR		
I         ROCLA RECTANGULAR PIT OR WATER           2         WATER AUTHORITY APPROVED AIR VA           3         VALVE AS PER PSS-1010-M           4         PRESSURE SEWER           5         STEEL BRACING           6         10mm THICK BITUMISED STRIP           7         PE TEE           8         DIEL PIPE (LENGTH TO SUIT)           9         PUDDLE FLANGE           10         FLANGED DIEL DUCKFOOT BEND           11         STEP IRONS           12         Ø600 MANHOLE COVER           13         CONCRETE PIPE SUPPORT           14         CONCRETE DASE SLAB TO BE POURED           15         CONCRETE COLLAR           16         DN100 PVC 90° ELBOW           18         "CREVET PIPELINES" MULTI VENT WITH           19         DN100 (SOC-SOC) PVC 90° BEND           20         DN100 (SOC-SOC) PVC 90° BEND           21         DN100 PVC (SOC-SP) ADAPTOR		TYPICAL F
2       WATER AUTHORITY APPROVED AIR VA         3       VALVE AS PER PSS-1010-M         4       PRESSURE SEWER         5       STEEL BRACING         6       10mm THICK BITUMISED STRIP         7       PE TEE         8       DIEL PIPE (LENGTH TO SUIT)         9       PUDDLE FLANGE         10       FLANGED DIEL DUCKFOOT BEND         11       STEP IRONS         12       Ø600 MANHOLE COVER         13       CONCRETE PIPE SUPPORT         14       CONCRETE COLLAR         16       DN100 PVC 90° ELBOW         18       "CREVET PIPELINES" MULTI VENT WITH         19       DN100 (SOC-SOC) PVC 90° BEND         20       DN100 (SOC-SOC) PVC 90° BEND         21       DN100 PVC (SOC-SP) ADAPTOR	ITEM	DESCRIPTION
3       VALVE AS PER PSS-1010-M         4       PRESSURE SEWER         5       STEEL BRACING         6       10mm THICK BITUMISED STRIP         7       PE TEE         8       DIEL PIPE (LENGTH TO SUIT)         9       PUDDLE FLANGE         10       FLANGED DIEL DUCKFOOT BEND         11       STEP IRONS         12       Ø600 MANHOLE COVER         13       CONCRETE PIPE SUPPORT         14       CONCRETE COLLAR         16       DN100 PVC 90° ELBOW         18       "CREVET PIPELINES" MULTI VENT WITH         19       DN100 (SP-SP) PVC PIPE (LENGTH TO S         20       DN100 (SOC-SOC) PVC 90° BEND         21       DN100 PVC (SOC-SP) ADAPTOR	1	ROCLA RECTANGULAR PIT OR WATER A
4       PRESSURE SEWER         5       STEEL BRACING         6       10mm THICK BITUMISED STRIP         7       PE TEE         8       DIEL PIPE (LENGTH TO SUIT)         9       PUDDLE FLANGE         10       FLANGED DIEL DUCKFOOT BEND         11       STEP IRONS         12       Ø600 MANHOLE COVER         13       CONCRETE PIPE SUPPORT         14       CONCRETE BASE SLAB TO BE POURED         15       CONCRETE COLLAR         16       DN100 PVC PIPE TO VENT (LENGTH ANI         17       DN100 PVC 90° ELBOW         18       "CREVET PIPELINES" MULTI VENT WITH         19       DN100 (SOC-SOC) PVC 90° BEND         20       DN100 (SOC-SOC) PVC 90° BEND         21       DN100 PVC (SOC-SP) ADAPTOR	2	WATER AUTHORITY APPROVED AIR VAL
5       STEEL BRACING         6       10mm THICK BITUMISED STRIP         7       PE TEE         8       DIEL PIPE (LENGTH TO SUIT)         9       PUDDLE FLANGE         10       FLANGED DIEL DUCKFOOT BEND         11       STEP IRONS         12       Ø600 MANHOLE COVER         13       CONCRETE PIPE SUPPORT         14       CONCRETE COLLAR         16       DN100 PVC 90° ELBOW         18       "CREVET PIPELINES" MULTI VENT WITH         19       DN100 (SP-SP) PVC PIPE (LENGTH TO S         20       DN100 (SOC-SOC) PVC 90° BEND         21       DN100 PVC (SOC-SP) ADAPTOR	3	VALVE AS PER PSS-1010-M
6       10mm THICK BITUMISED STRIP         7       PE TEE         8       DIEL PIPE (LENGTH TO SUIT)         9       PUDDLE FLANGE         10       FLANGED DIEL DUCKFOOT BEND         11       STEP IRONS         12       Ø600 MANHOLE COVER         13       CONCRETE PIPE SUPPORT         14       CONCRETE BASE SLAB TO BE POURED         15       CONCRETE COLLAR         16       DN100 PVC 90° ELBOW         18       "CREVET PIPELINES" MULTI VENT WITH         19       DN100 (SP-SP) PVC PIPE (LENGTH TO S         20       DN100 (SOC-SOC) PVC 90° BEND         21       DN100 PVC (SOC-SP) ADAPTOR	4	PRESSURE SEWER
7       PE TEE         8       DIEL PIPE (LENGTH TO SUIT)         9       PUDDLE FLANGE         10       FLANGED DIEL DUCKFOOT BEND         11       STEP IRONS         12       Ø600 MANHOLE COVER         13       CONCRETE PIPE SUPPORT         14       CONCRETE BASE SLAB TO BE POURED         15       CONCRETE COLLAR         16       DN100 PVC PIPE TO VENT (LENGTH ANI         17       DN100 PVC 90° ELBOW         18       "CREVET PIPELINES" MULTI VENT WITH         19       DN100 (SP-SP) PVC PIPE (LENGTH TO S         20       DN100 (SOC-SOC) PVC 90° BEND         21       DN100 PVC (SOC-SP) ADAPTOR	5	STEEL BRACING
8       DIEL PIPE (LENGTH TO SUIT)         9       PUDDLE FLANGE         10       FLANGED DIEL DUCKFOOT BEND         11       STEP IRONS         12       Ø600 MANHOLE COVER         13       CONCRETE PIPE SUPPORT         14       CONCRETE BASE SLAB TO BE POURED         15       CONCRETE COLLAR         16       DN100 PVC 90° ELBOW         18       "CREVET PIPELINES" MULTI VENT WITH         19       DN100 (SP-SP) PVC PIPE (LENGTH TO S         20       DN100 (SOC-SOC) PVC 90° BEND         21       DN100 PVC (SOC-SP) ADAPTOR	6	10mm THICK BITUMISED STRIP
9       PUDDLE FLANGE         10       FLANGED DIEL DUCKFOOT BEND         11       STEP IRONS         12       Ø600 MANHOLE COVER         13       CONCRETE PIPE SUPPORT         14       CONCRETE BASE SLAB TO BE POURED         15       CONCRETE COLLAR         16       DN100 PVC 90° ELBOW         18       "CREVET PIPELINES" MULTI VENT WITH         19       DN100 (SP-SP) PVC PIPE (LENGTH TO S         20       DN100 (SOC-SOC) PVC 90° BEND         21       DN100 PVC (SOC-SP) ADAPTOR	7	PE TEE
10FLANGED DIEL DUCKFOOT BEND11STEP IRONS12Ø600 MANHOLE COVER13CONCRETE PIPE SUPPORT14CONCRETE BASE SLAB TO BE POURED15CONCRETE COLLAR16DN100 PVC PIPE TO VENT (LENGTH ANI17DN100 PVC 90° ELBOW18"CREVET PIPELINES" MULTI VENT WITH19DN100 (SP-SP) PVC PIPE (LENGTH TO S20DN100 (SOC-SOC) PVC 90° BEND21DN100 PVC (SOC-SP) ADAPTOR	8	DIEL PIPE (LENGTH TO SUIT)
11STEP IRONS12Ø600 MANHOLE COVER13CONCRETE PIPE SUPPORT14CONCRETE BASE SLAB TO BE POURED15CONCRETE COLLAR16DN100 PVC PIPE TO VENT (LENGTH ANI17DN100 PVC 90° ELBOW18"CREVET PIPELINES" MULTI VENT WITH19DN100 (SP-SP) PVC PIPE (LENGTH TO S20DN100 (SOC-SOC) PVC 90° BEND21DN100 PVC (SOC-SP) ADAPTOR	9	PUDDLE FLANGE
12Ø600 MANHOLE COVER13CONCRETE PIPE SUPPORT14CONCRETE BASE SLAB TO BE POURED15CONCRETE COLLAR16DN100 PVC PIPE TO VENT (LENGTH ANI17DN100 PVC 90° ELBOW18"CREVET PIPELINES" MULTI VENT WITH19DN100 (SP-SP) PVC PIPE (LENGTH TO S20DN100 (SOC-SOC) PVC 90° BEND21DN100 PVC (SOC-SP) ADAPTOR	10	FLANGED DIEL DUCKFOOT BEND
13       CONCRETE PIPE SUPPORT         14       CONCRETE BASE SLAB TO BE POURED         15       CONCRETE COLLAR         16       DN100 PVC PIPE TO VENT (LENGTH ANI         17       DN100 PVC 90° ELBOW         18       "CREVET PIPELINES" MULTI VENT WITH         19       DN100 (SP-SP) PVC PIPE (LENGTH TO S         20       DN100 (SOC-SOC) PVC 90° BEND         21       DN100 PVC (SOC-SP) ADAPTOR	11	STEP IRONS
<ul> <li>14 CONCRETE BASE SLAB TO BE POURED</li> <li>15 CONCRETE COLLAR</li> <li>16 DN100 PVC PIPE TO VENT (LENGTH AND</li> <li>17 DN100 PVC 90° ELBOW</li> <li>18 "CREVET PIPELINES" MULTI VENT WITH</li> <li>19 DN100 (SP-SP) PVC PIPE (LENGTH TO S</li> <li>20 DN100 (SOC-SOC) PVC 90° BEND</li> <li>21 DN100 PVC (SOC-SP) ADAPTOR</li> </ul>	12	Ø600 MANHOLE COVER
<ol> <li>CONCRETE COLLAR</li> <li>DN100 PVC PIPE TO VENT (LENGTH ANI</li> <li>DN100 PVC 90° ELBOW</li> <li>"CREVET PIPELINES" MULTI VENT WITH</li> <li>DN100 (SP-SP) PVC PIPE (LENGTH TO S</li> <li>DN100 (SOC-SOC) PVC 90° BEND</li> <li>DN100 PVC (SOC-SP) ADAPTOR</li> </ol>	13	CONCRETE PIPE SUPPORT
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18"CREVET PIPELINES" MULTI VENT WITH19DN100 (SP-SP) PVC PIPE (LENGTH TO S20DN100 (SOC-SOC) PVC 90° BEND21DN100 PVC (SOC-SP) ADAPTOR	16	DN100 PVC PIPE TO VENT (LENGTH AND
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	20	
22 PE 90° SWEEPER BEND	21	DN100 PVC (SOC-SP) ADAPTOR
	22	PE 90° SWEEPER BEND

NOTE: ALL PIPE AND FITTINGS MUST BE APPRO DETAILS ARE SHOWN FOR A DN90 PRESSURE

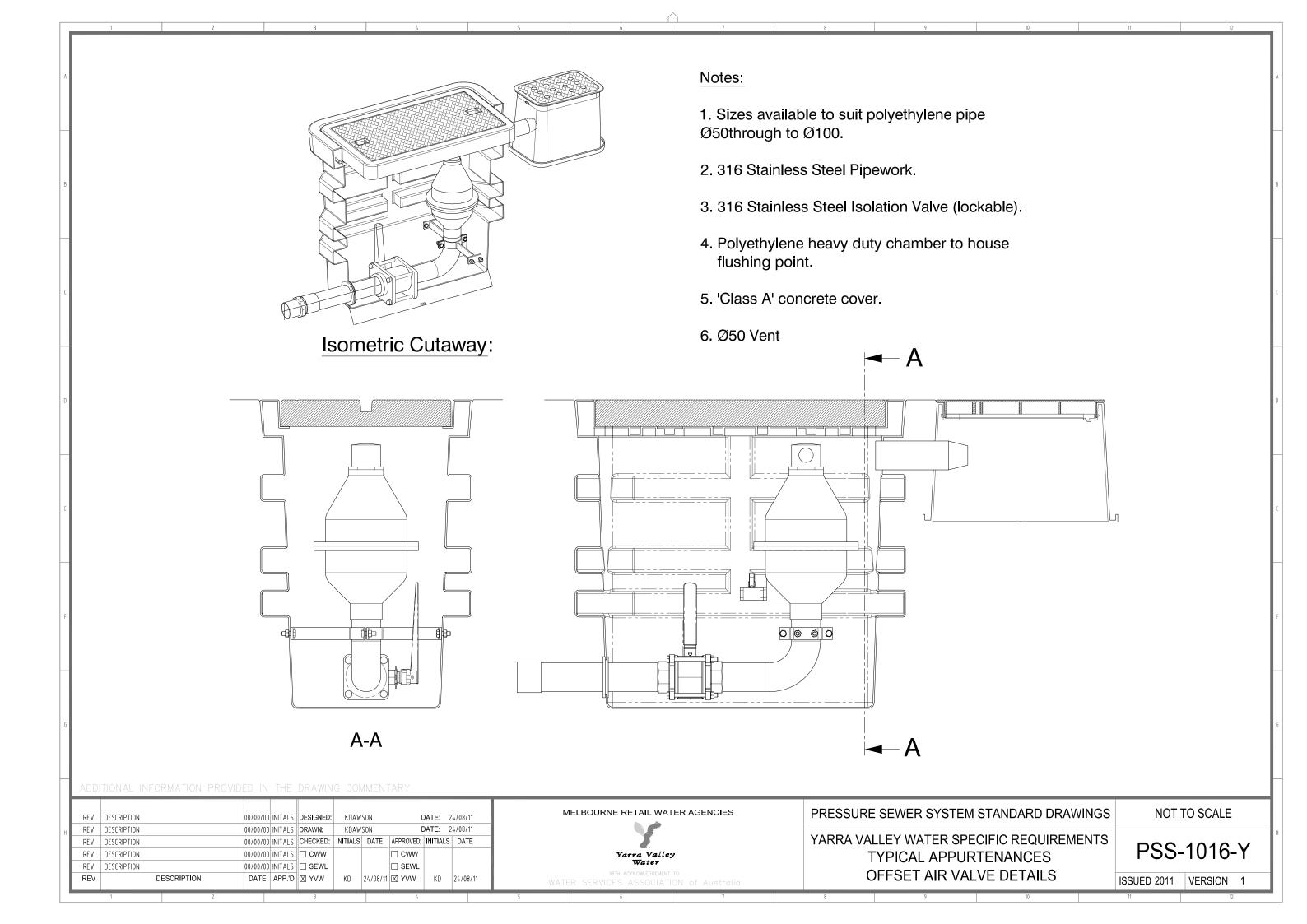


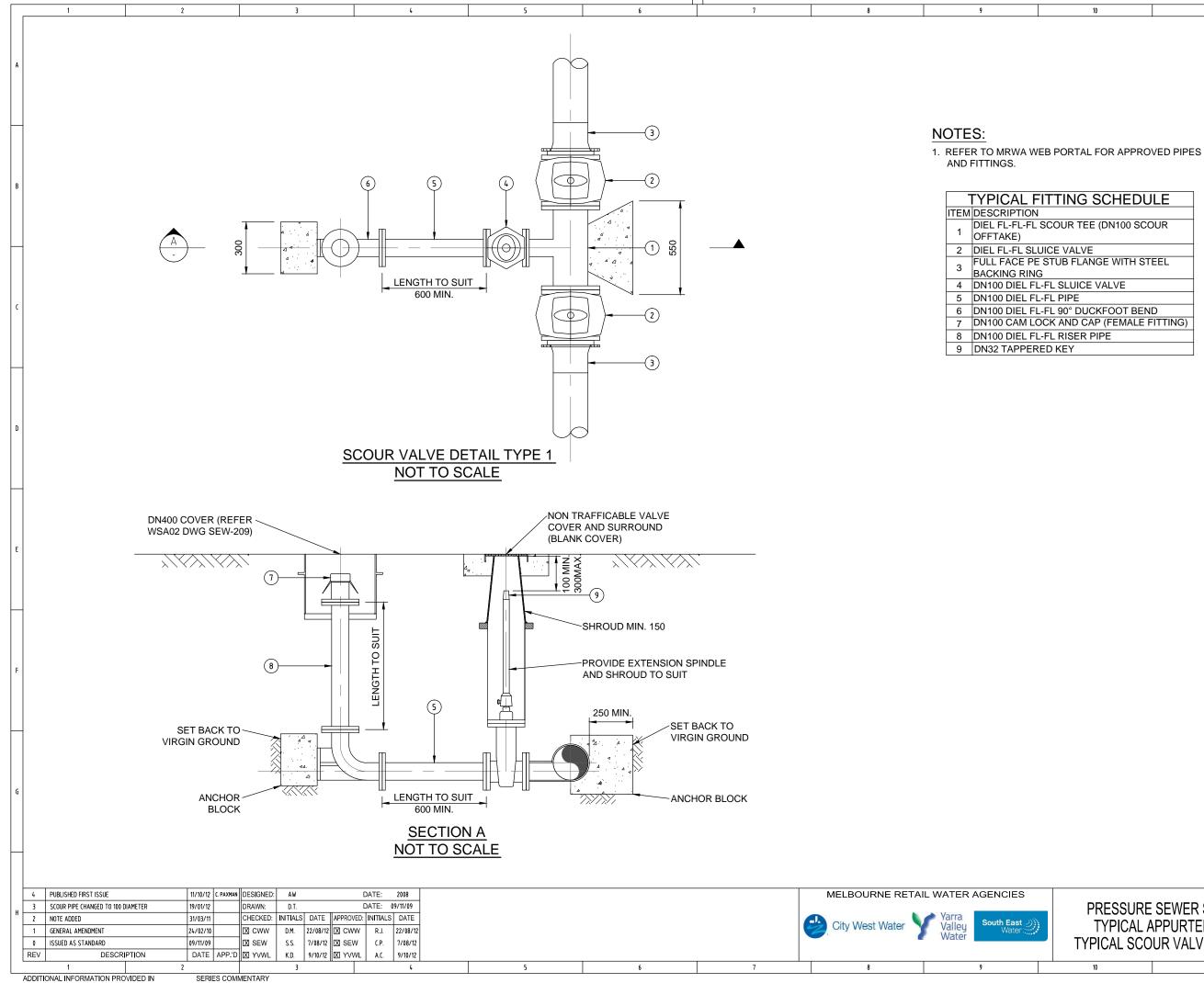
## **GROUND LEVEL VEI**

NOT TO

	4	PUBLISHED FIRST ISSUE	11/10/12	C. PAXMAN	DESIGNED:	S. FR	ENCH		DATE:	2009					MELBOURNE RETA	AIL WATER AGENCIES	
	3	NEW AIR VALVE ARRANGEMENT	18/01/12		DRAWN:	D.T.			DATE:	06/11/09							
'	2	NOTE ADDED	31/03/11		CHECKED:	INITIALS	6 DATE	APPROVED:	INITIAL	.S DATE						Yarra Vallau South East	
	1	GENERAL AMENDMENTS	24/02/10		🖾 CWW	D.M.	22/08/12	≥ 🖾 CMM	R.J.	22/08/12	:				City West Water	Valley Water	
	0	ISSUED AS STANDARD	06/11/09		🖾 SEW	S.S.	7/08/12	🖾 SEW	C.P.	7/08/12						Water	
	REV	DESCRIPTION	DATE	APP.'D	X YVWL	K.D.	9/10/12	X YVWL	A.C.	9/10/12							
		1 2				3				4		5	6	7	8	9	
	ADDIT	IONAL INFORMATION PROVIDED IN	SER	ES COM	MENTARY								•				

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IN-SITU				
D LOCATION TO BE DE	ETERMINED ON SITE)			
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OVED FOR USE. REFE SEWER.	ER TO THE MRWA WEB P	ORTAL.		
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	20)			
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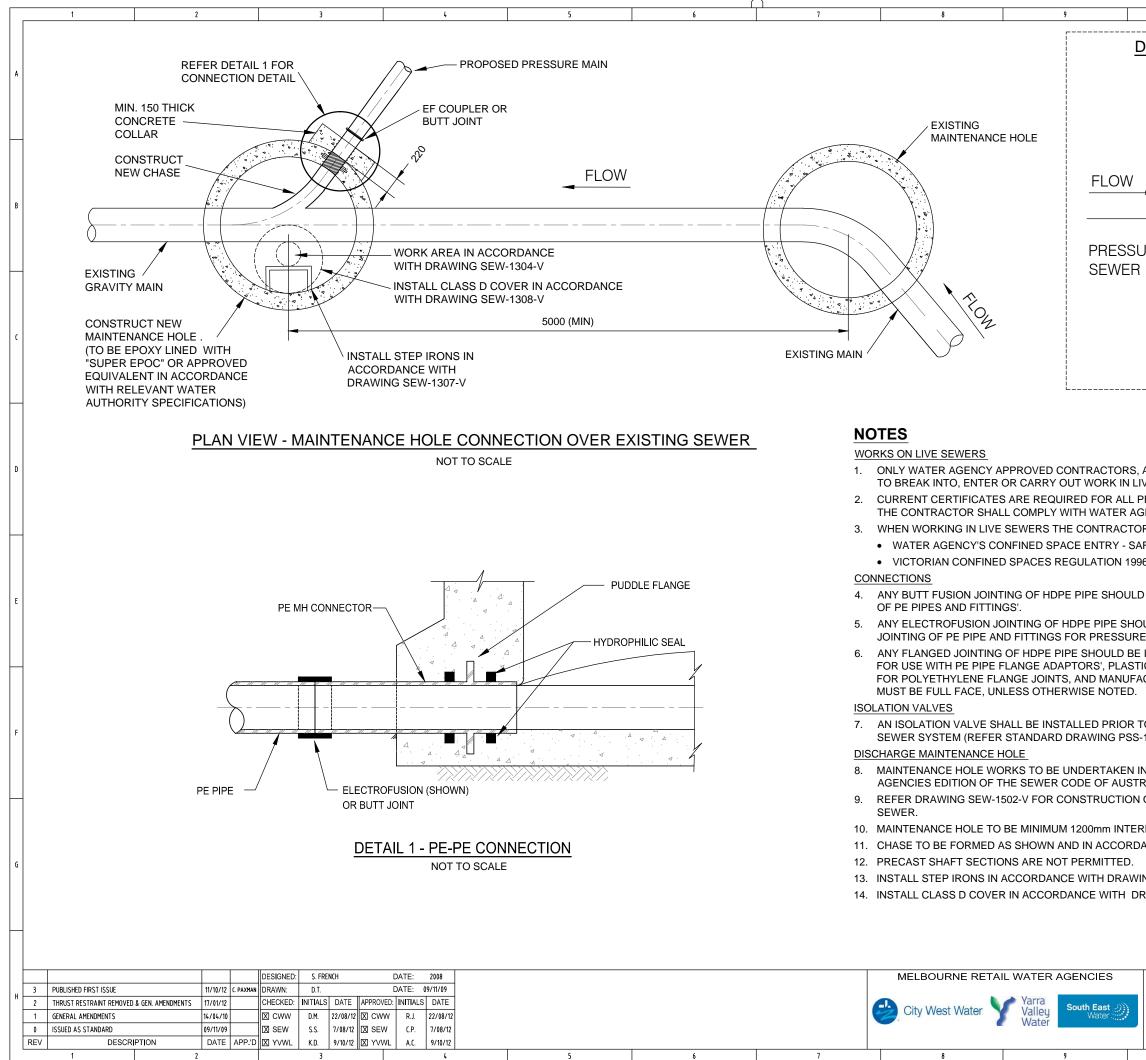


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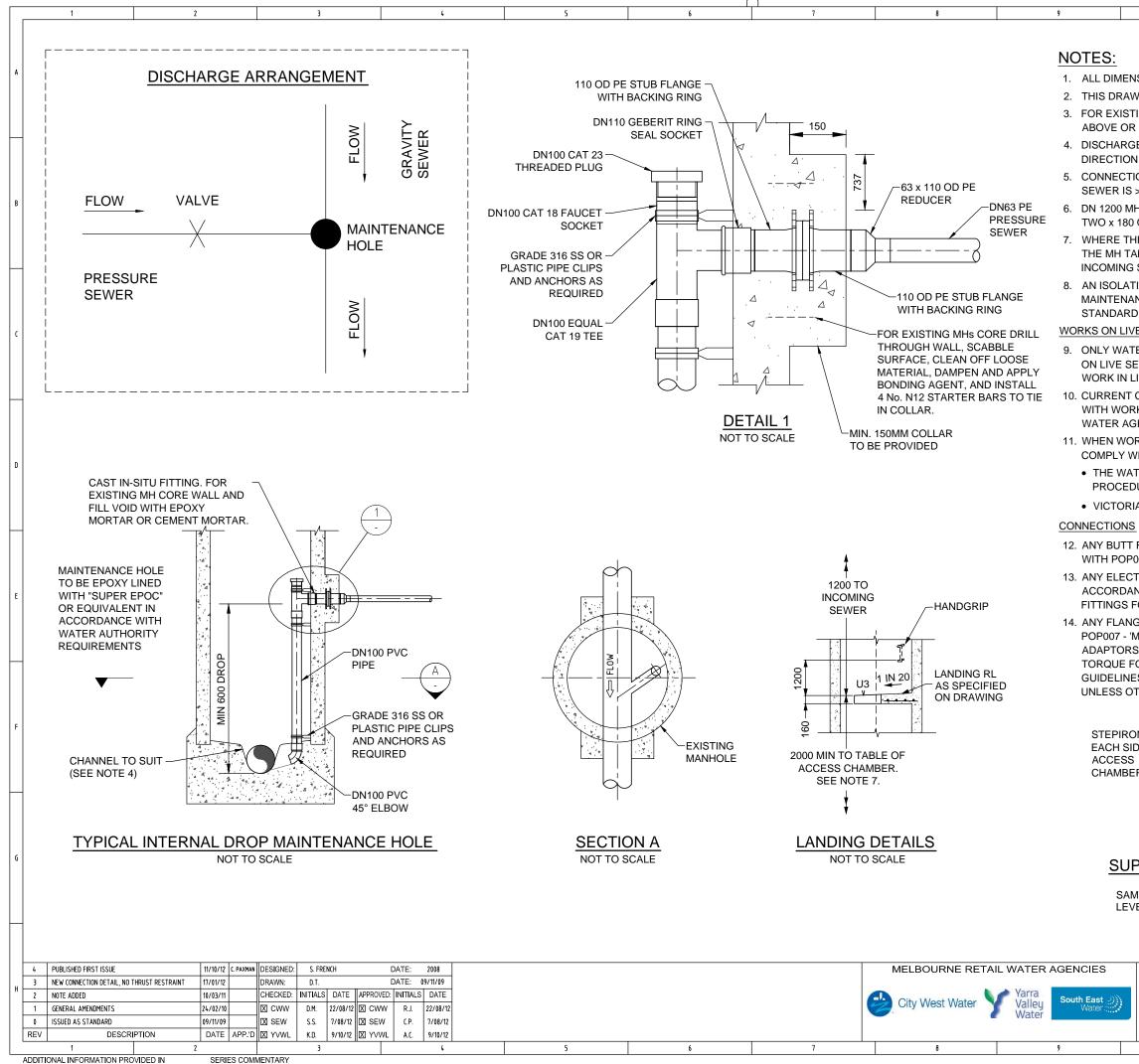
OUR TEE (DN100 SCOUR
E VALVE
UB FLANGE WITH STEEL
SLUICE VALVE
PIPE
90° DUCKFOOT BEND
AND CAP (FEMALE FITTING)

PRESSURE SEWER SYSTEM
TYPICAL APPURTENANCE
TYPICAL SCOUR VALVE DETAILS

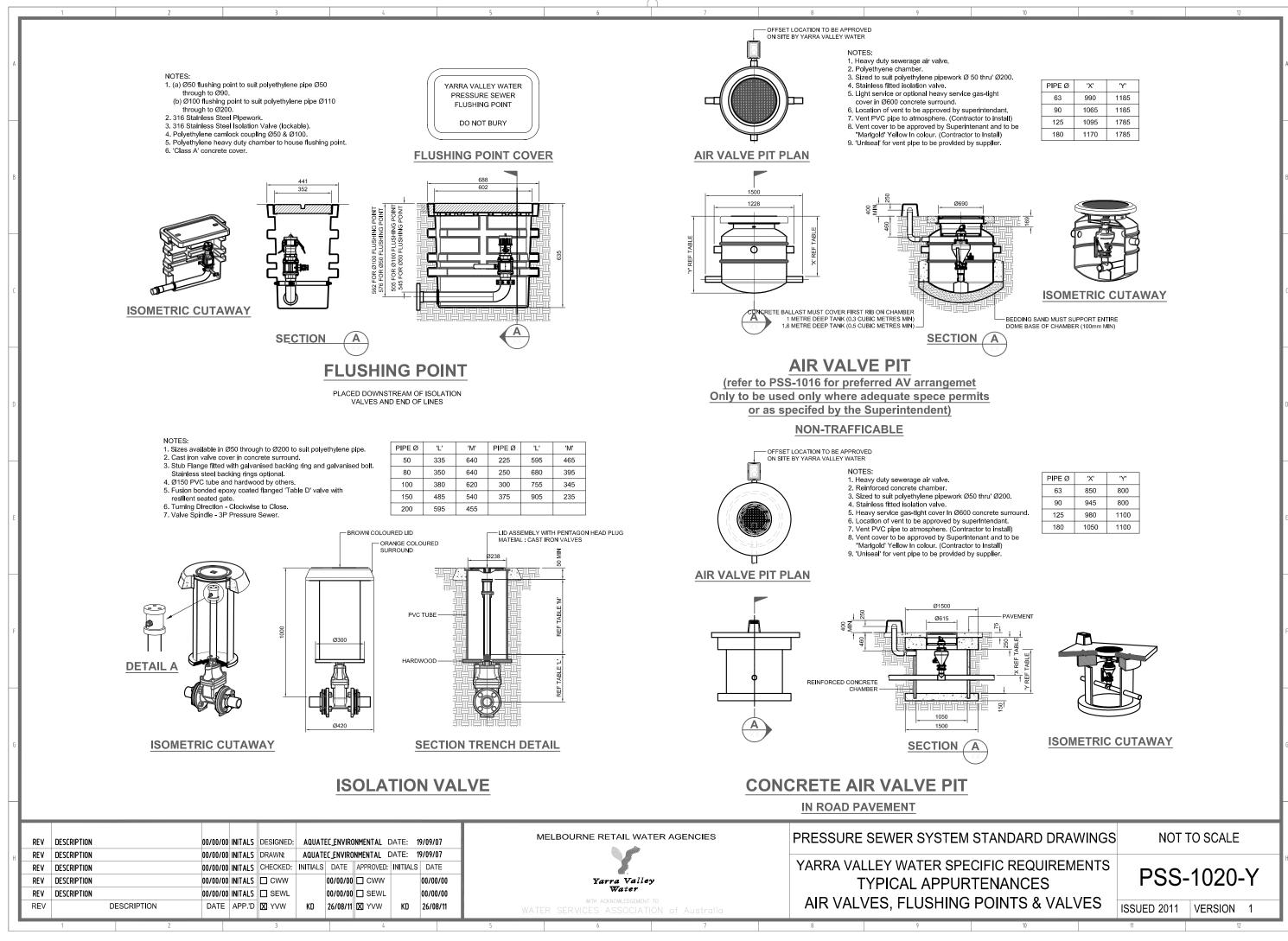
SCALE: N.T.S	@A3
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NG SEW-1307-V. RAWING SEW-1308-V.				
G WING OL W-1900-V.				
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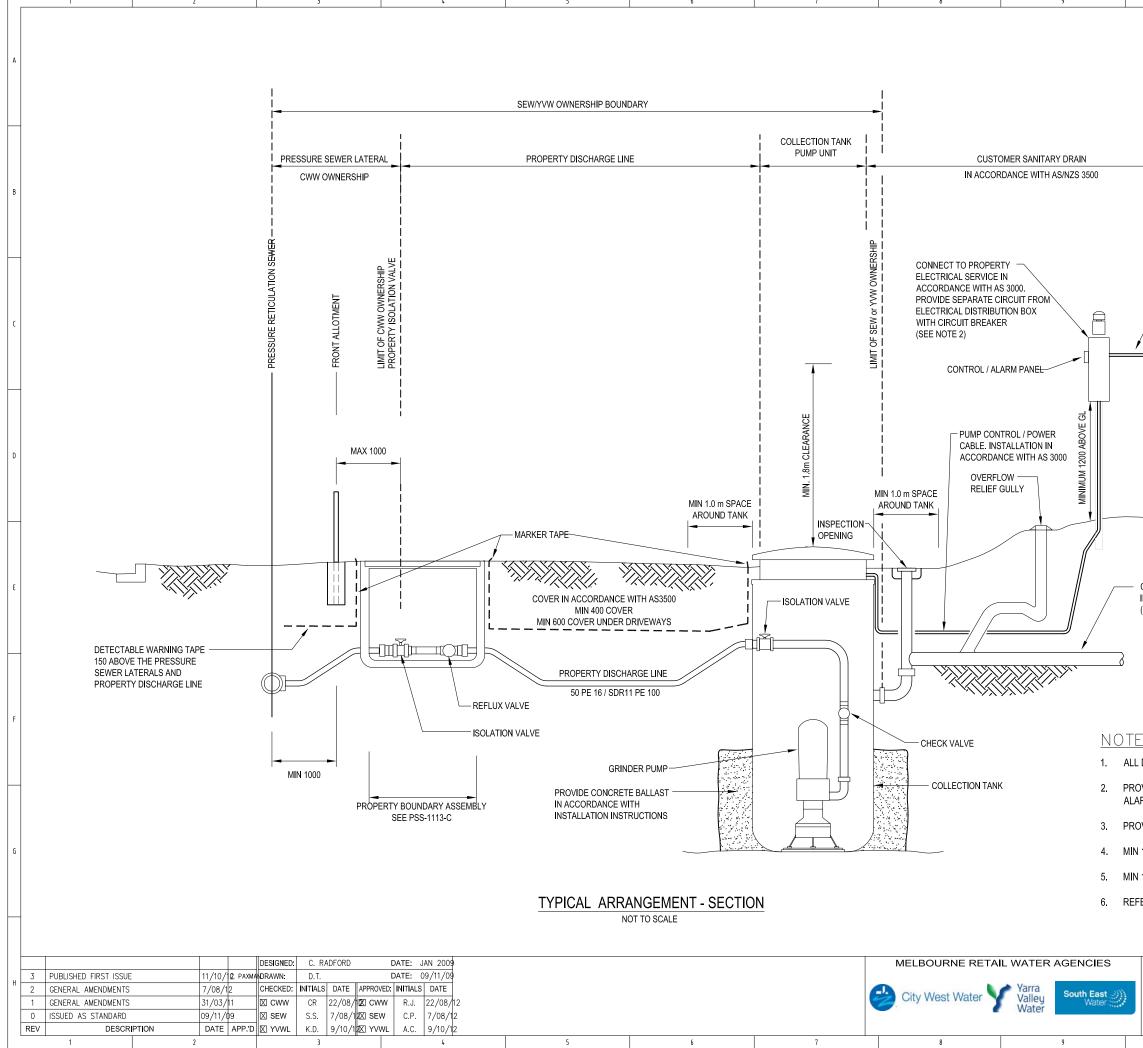
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r to install) ant and to be	125	1095	1785
Install)	180	1170	1785
upplier.			

GLOSSARY OF TERMS				
COLLECTION TANK / PUMP UNIT	A PACKAGE OF SEWER COMPONENTS INSTALLED ON A PROPERTY, INCLUDING A COLLECTION TANK, GRINDER PUMP, LEVEL SWITCHES, PIPEWORK, VALVES AND OTHER APPURTENANCES WITHIN THE UNIT	Г — — — 	·	- — — – – 
COLLECTION TANK	THAT PART OF A COLLECTION TANK / PUMP UNIT WHICH COLLECTS AND STORES FLOWS FROM THE CUSTOMER SANITARY DRAIN(S)			ĺ
CONTROL/ALARM PANEL	THE POWER AND CONTROL PANEL THAT CONTROLS THE OPERATION OF THE GRINDER PUMP AND WHICH CONTAINS AUDIBLE AND VISUAL ALARM COMPONENTS. THE PANEL ALSO CONTAINS A DEDICATED CIRCUIT BREAKER FOR POWER DISCONNECTION			
CUSTOMER SANITARY DRAIN	A PIPELINE INSTALLED BY A LICENSED PLUMBER WITHIN A PROPERTY BOUNDARY AND OPERATED BY A PROPERTY OWNER TO CONVEY SEWERAGE FROM BUILDINGS TO THE CONNECTION POINT; CONSTRUCTED TO PLUMBING CODE STANDARDS; ALSO CALLED HOUSE DRAIN, HOUSE SERVICE LINE, HOUSE SEWER, SANITARY CONNECTION, PROPERTY DRAIN, SANITARY DRAIN			
ELECTRICAL CABLE	A CABLE THAT DELIVERS POWER FROM THE BUILDING ELECTORAL DISTRIBUTION BOX TO THE CONTROL/ALARM PANEL			
ELECTRICAL DISTRIBUTION BOX	A BOARD THAT DISSEMINATES THE MAIN POWER SUPPLY TO THE PROPERTY AN IS THE PRIMARY SOURCE FOR METERING			
GRINDER PUMP	A MECHANICAL DEVICE DESIGNED TO PUMP LIQUID AND IN THE PROCESS REDUCE THE SIZE OF SOLIDS CONTAINED IN THE SEWERAGE			
PRESSURE RETICULATION SEWER	A COMMON MAIN WHICH TRANSFERS SEWERAGE FROM A NUMBER OF PROPERTIES TO A DOWNSTREAM POINT IN A PRESSURE SEWER SYSTEM I.E. A COMPONENT OF PRESSURE SEWER RETICULATION	EXISTING LOT		
PRESSURE SEWER LATERAL	A MAIN THAT CONNECTS A PRESSURE RETICULATION SEWER TO A PROPERTY BOUNDARY ASSEMBLY			
PRESSURE SEWER RETICULATION	A NETWORK OF MAINS INCLUDING PRESSURE SEWER LATERALS AND PROPERTY BOUNDARY ASSEMBLIES WHICH TRANSPORT SEWERAGE FROM PROPERTIES TO A SEWERAGE TREATMENT FACILITY OR ANOTHER SEWERAGE SYSTEM			
PRESSURE SEWER SYSTEM	A COMPLETE SYSTEM WHEREIN SEWERAGE IS CONVEYED UNDER PRESSURE GENERATED BY PUMPING UNITS LOCATED ON EACH PROPERTY TO A SEWERAGE TREATMENT FACILITY OR ANOTHER SEWERAGE SYSTEM			■ 1
PROPERTY BOUNDARY ASSEMBLY	A FITTING ASSEMBLY THAT; (a) CONNECTS A PRESSURE SEWER LATERAL TO A PROPERTY DISCHARGE LINE; AND			
	(b) PROVIDES A MEANS OF ISOLATING PRESSURE SEWER RETICULATION FROM A PROPERTY DISCHARGE LINE AND ASSOCIATED COLLECTION/PUMP UNIT			$\neq$ $+$
PROPERTY DISCHARGE LINE	A PRESSURE SEWER LINE LOCATED ON PRIVATE PROPERTY THAT CONNECTS THE COLLECTION/PUMP UNIT TO THE PROPERTY BOUNDARY ASSEMBLY			
PUMP CONTROL/POWER CABLE	A CABLE THAT DELIVERS POWER FROM THE CONTROL/ALARM PANEL TO THE GRINDER PUMP LOCATED WITHIN THE COLLECTION TANK AND TRANSMITS CONTROL SIGNALS BETWEEN THE PANEL AND THE PUMP			
			ROAD RESERVE	
JBLISHED FIRST ISSUE 11/10/	/12 C. PAXMAN DESIGNED: C. RADFORD DATE: JAN 2009		MELBOURNE RETAIL	_ WATER AGENCI
ROPERTY BOUNDARY ASSEMBLY REVERSED 17/01/ ENERAL AMENDMENTS 10/03 ENERAL AMENDMENT 24/02	/11 CHECKED: INITIALS DATE APPROVED: INITIALS DATE		City West Water	Yarra Valley Water
SSUED AS STANDARD 09/11/ DESCRIPTION DAT	/09 IX SEW S.S. 7/08/12 IX SEW C.P. 7/08/12 TE APP.'D IX YVWL K.D. 9/10/12 IX YVWL A.C. 9/10/12		-	vvaler

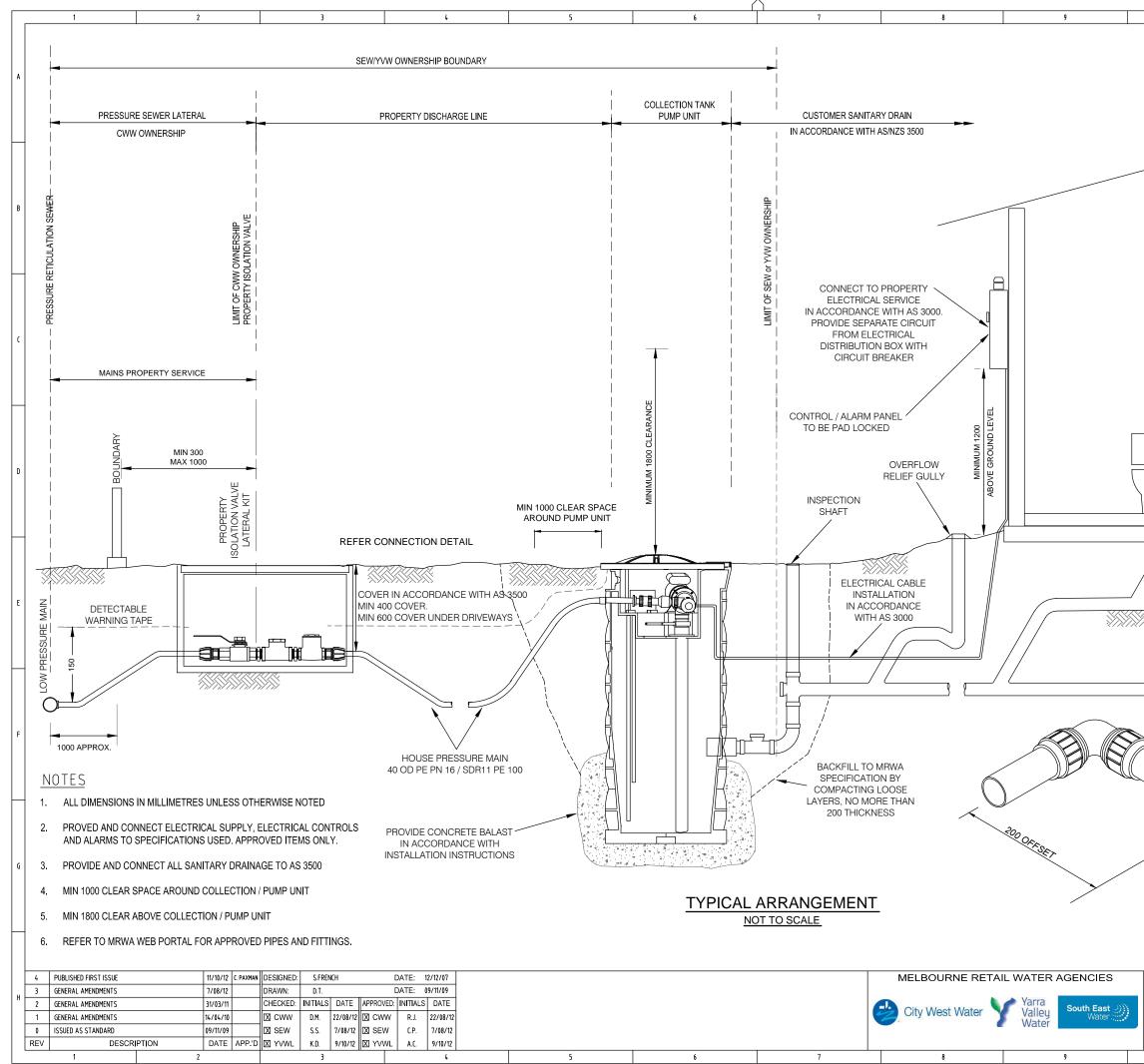
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 ADDITIONAL INFORMATION PROVIDED IN
 SERIES COMMENTARY

LEGEND:         • FLUSHING POINT         × ISOLATION VALVE         > POPERTY BOUNDARY ASSEMBLY         • COLLECTION TANK            PUMP CONTROL/POWER CABLE	10	11	12	
OMER SANITARY DRAINS TO COLLECTION TANK  TRICAL DISTRIBUTION BOX TRICAL CABLE ROUALARM PANEL CONTROL/POWER CABLE ECTION TANK / PUMP UNIT M THERTY DISCHARGE LINE THE	×	FLUSHING POINT ISOLATION VALVE	MBLY	A
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SURE RETICULATION SEWER				6
PRESSURE SEWER SYSTEM DESIGN LAYOUT TYPICAL ON PROPERTY COMPONENTS 10 11 12	PRESSURE DESIG TYPICAL ON PROI	IN LAYOUT	SHEET: 1 OF 1 DRAWING No.: REV PSS-1110-M 4	Н

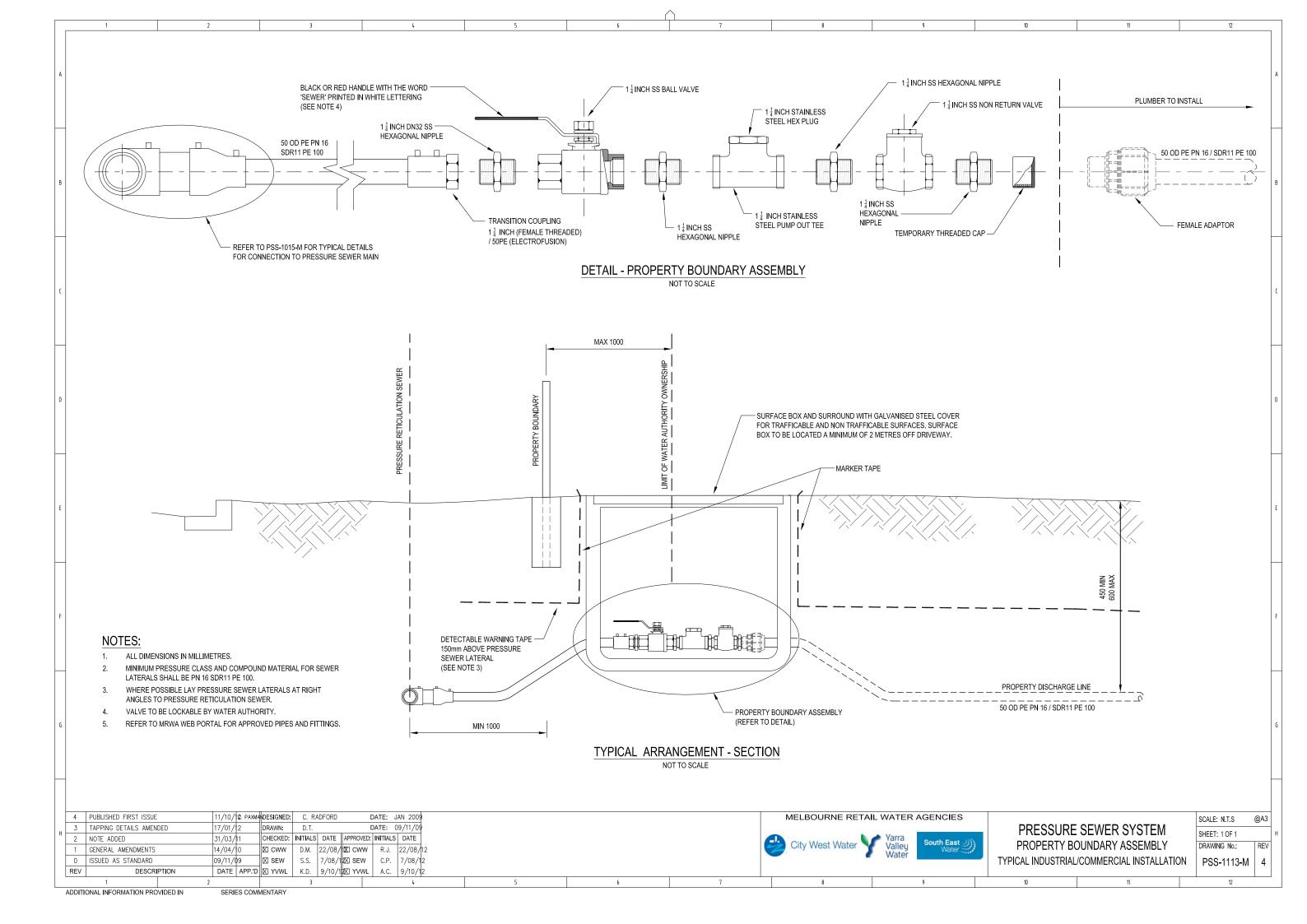


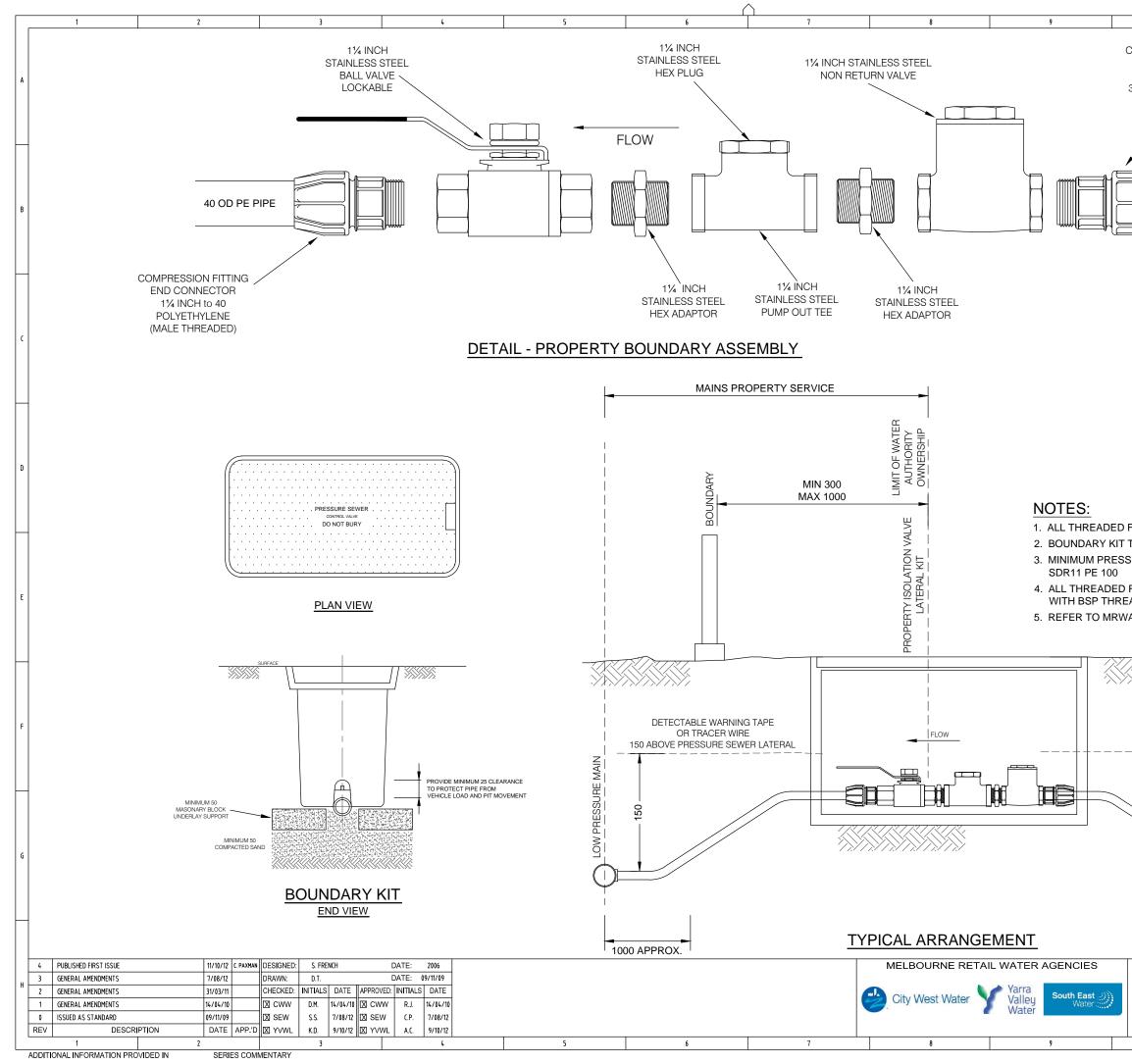
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	ELECTRICAL DISTRI (REFER NOTE 2)	BUTION BOX	C	
			D	
CUSTOMER SANITARY DRAIN IN ACCORDANCE WITH AS/NZ (SEE NOTE 3)			E	
<u>ES</u> DIMENSIONS IN MILLIMETR	RES UNLESS OTHERWISE NOT	ED	F	
VED AND CONNECT ELECTRICAL SUPPLY, ELECTRICAL CONTROLS AND RMS TO SPECIFICATIONS USED. APPROVED ITEMS ONLY. VIDE AND CONNECT ALL SANITARY DRAINAGE TO AS 3500 1000 CLEAR SPACE AROUND COLLECTION / PUMP UNIT 1800 CLEAR ABOVE COLLECTION / PUMP UNIT ER TO MRWA WEB PORTAL FOR APPROVED PIPES AND FITTINGS.				
ON-PROF COMMERC	SEWER SYSTEM PERTY LAYOUT IAL / INDUSTRIAL	SCALE: N.T.S         @A3           SHEET: 1 OF 1            DRAWING No.:         REV           PSS-1111-M         3           12         12	Н	
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ADDITIONAL INFORMATION PROVIDED IN SERIES COMMENTARY

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COMPRESSION FITTING 1¼ INCH to 40 END CONNECTOR 32mm POLYETHYLENE (MALE THREADED)	i		A
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			F
40 OD	USE PRESSURE MAIN PE PN 16 / SDR11 PE 100 /ITH CREAM STRIPE)		G
PROPERTY BO	SEWER SYSTEM UNDARY ASSEMBLY ENTIAL INSTALLATIO		н

