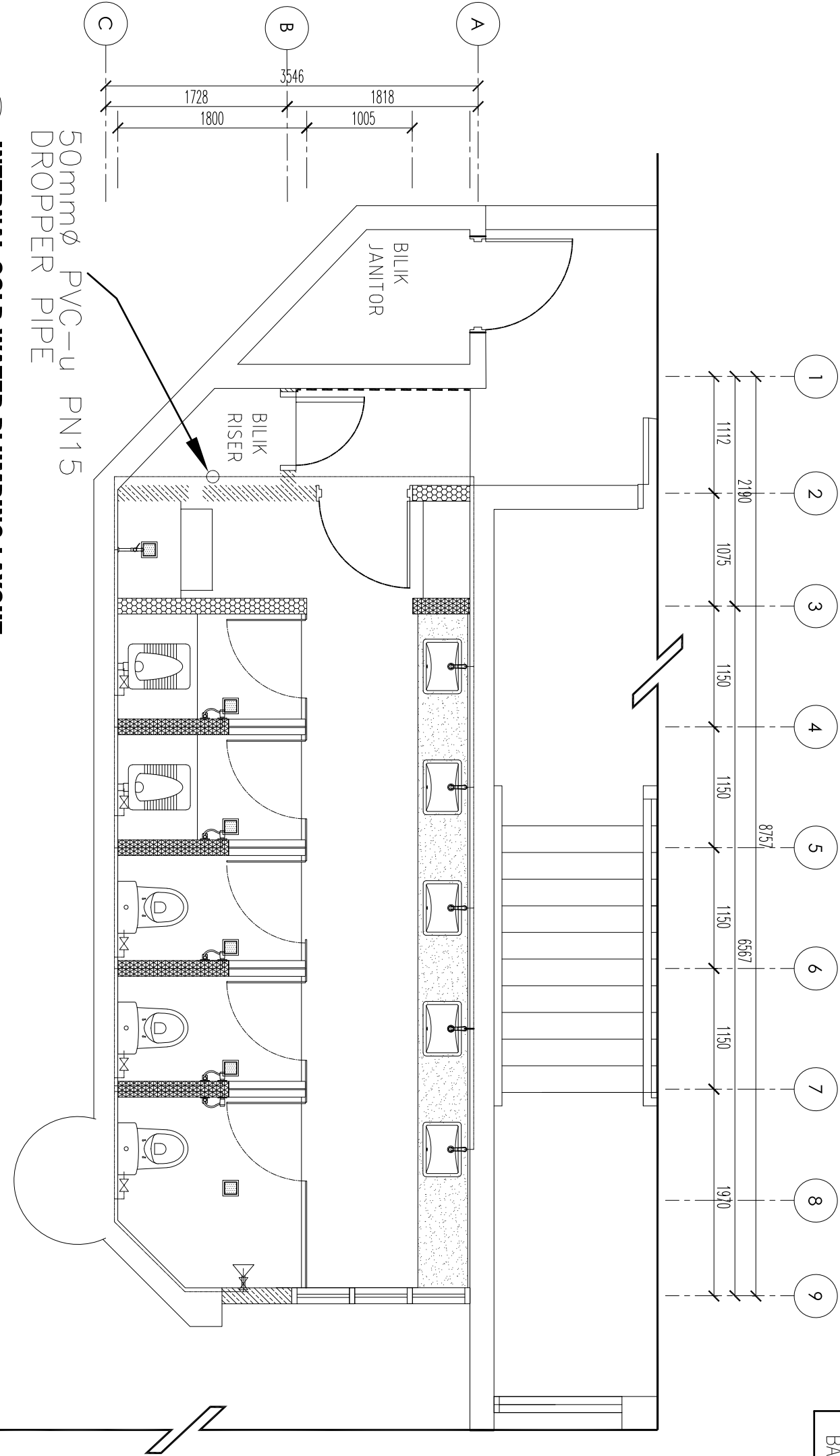


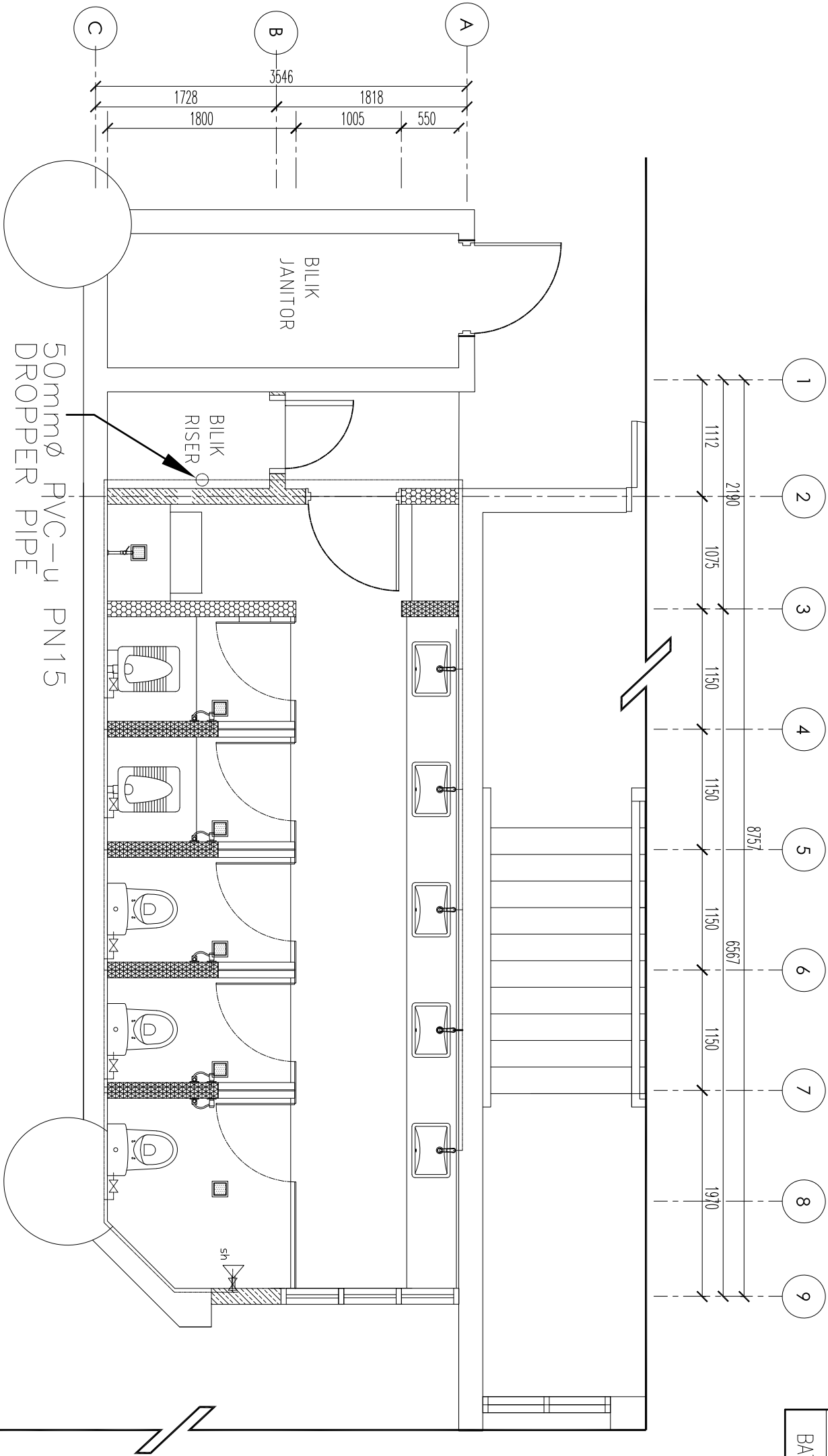
LEGEND FOR PIPING SIZE

FITTING	SIZE
BASIN TO GULLY TRAP & FLOOR TRAP	ø32
WATER CLOSET TO MANHOLE @ MAIN PIPE	ø100
FLOOR TRAP TO GULLY TRAP	ø75
GREASE TRAP	ø75
SINK TO GULLY TRAP @ FLOOR TRAP	ø40
GULLY TRAP TO MANHOLE	ø100
BATH TAP TO MAIN PIPE @ MANHOLE	ø100



LEGEND FOR PIPING SIZE

FITTING	SIZE
BASIN TO GULLY TRAP & FLOOR TRAP	ø32
WATER CLOSET TO MANHOLE @ MAIN PIPE	ø100
FLOOR TRAP TO GULLY TRAP	ø75
GREASE TRAP	ø75
SINK TO GULLY TRAP @ FLOOR TRAP	ø40
GULLY TRAP TO MANHOLE	ø100
BATH TAP TO MAIN PIPE @ MANHOLE	ø100



INTERNAL COLD WATER PLUMBING LAYOUT

ARAS 4 & 5 - TANDAS STAF (P)

SCALE 1 : 50

PERINGATAN

HANYA DIMENSI BERANGKA SAHAJA DILAKSANAKAN, KONTRAKTOR MESTI MEMERIKSA SEMUA DIMENSI SEBENAR DI TAPAK BINA. SEBARANG PERCANGGAHAN MESTI DILAPORKAN DENGAN SEGERA KEPADA PEGAWAI PENGUJASA SEBELUM KERJA-KERJA DIMULAKAN.

PROJEK:

CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2, 3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN SENI KREATIF (KRKS), UTM SHAH ALAM.



NO. RUJUKAN PROJEK:	TARIKH:	NAB CANSELOR	INDEXS PINDAAN
200-PP11(BP1.5/3/25) MECHCW	20 09 24 sep	TIMBALAN NAB CANSELOR	
TAJUK LUKSAN:	SKALA:	PENGARAH LABATAN PEMBANGUNAN & INFRASTRUKTUR	
PELAN LANTAI BAHARU TIPIKAL ARAS 4&5 - TANDAS STAF (P)	1:50	KETUA BAHAGIAN PEMBANGUNAN INFRA: TS. MOHAMMED IZRA ABD. RAZAK	
		ARKITEK	
		DILUKS OLEH	
		PENGURUS PROJEK / DISEMAK	
			NO HELAIAN: 02

LEGEND FOR PIPING SIZE

FITTING	SIZE
BASIN TO GULLY TRAP & FLOOR TRAP	ø32
WATER CLOSET TO MANHOLE @ MAIN PIPE	ø100
FLOOR TRAP TO GULLY TRAP	ø75
GREASE TRAP	ø75
SINK TO GULLY TRAP @ FLOOR TRAP	ø40
GULLY TRAP TO MANHOLE	ø100
BATH TAP TO MAIN PIPE @ MANHOLE	ø100

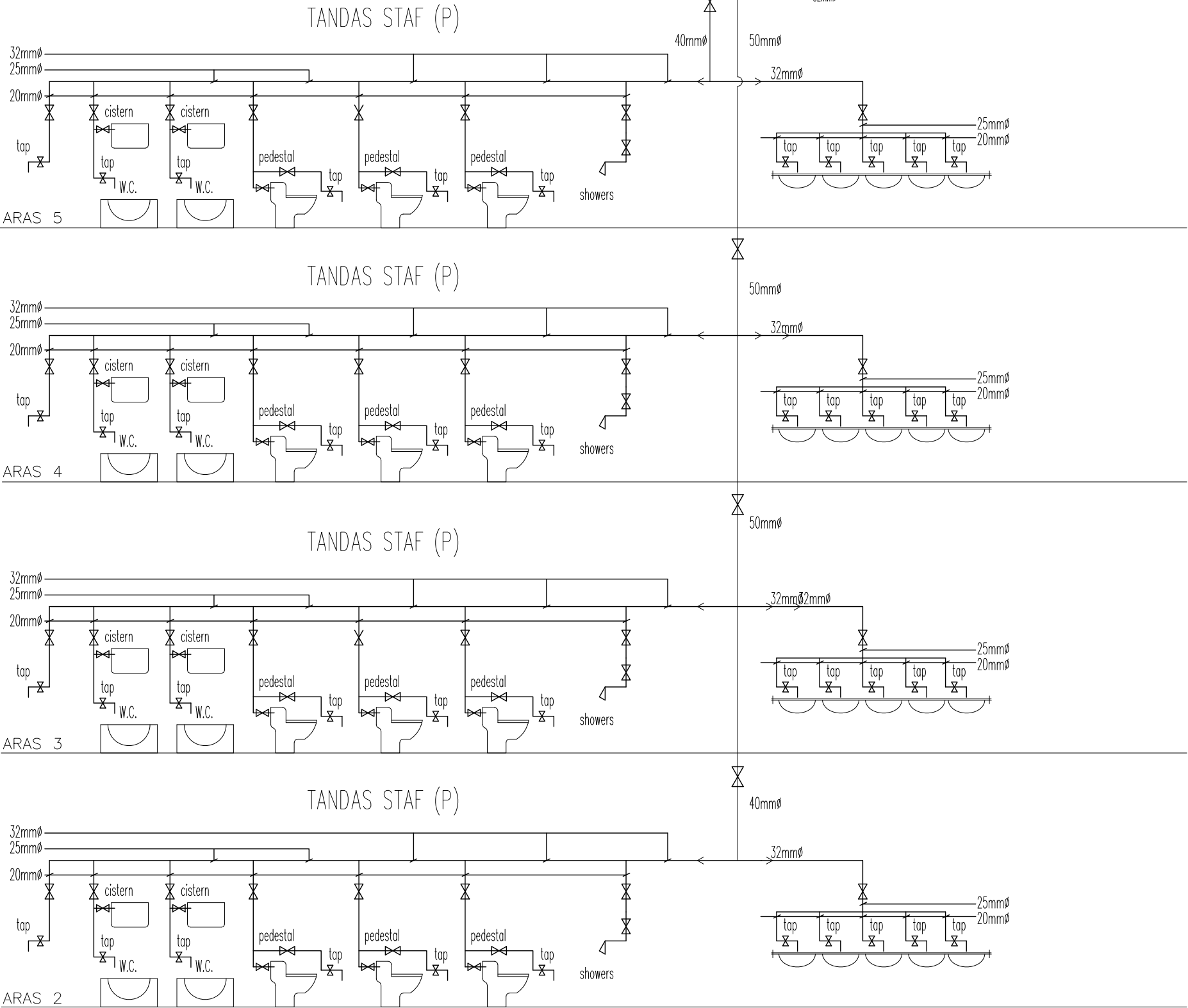
INTERNAL COLD WATER PLUMBING

ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

SCALE 1 : 50

ARAS BUMBUNG

ARAS 6 & TANGKI AIR



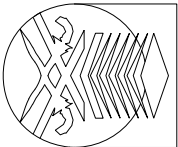
LUKISAN DOKUMENTASI

PERINGATAN

HANYA DIMENSI BERANGKA SAHAJA DILAKSANAKAN. KONTRAKTOR MESTI MEMERIKSA SEMUA DIMENSI SEBENAR DI TAPAK BINA. SEBARANG PERCANGGAHAN MESTI DILAPORKAN DENGAN SEGERA KEPADA PEGAWEI PENGUSA SEBELUM KERJA-KERJA DIMULAKAN.

PROJEK:

CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2, 3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN SENI KREATIF (KPSK), UTM SHAH ALAM.



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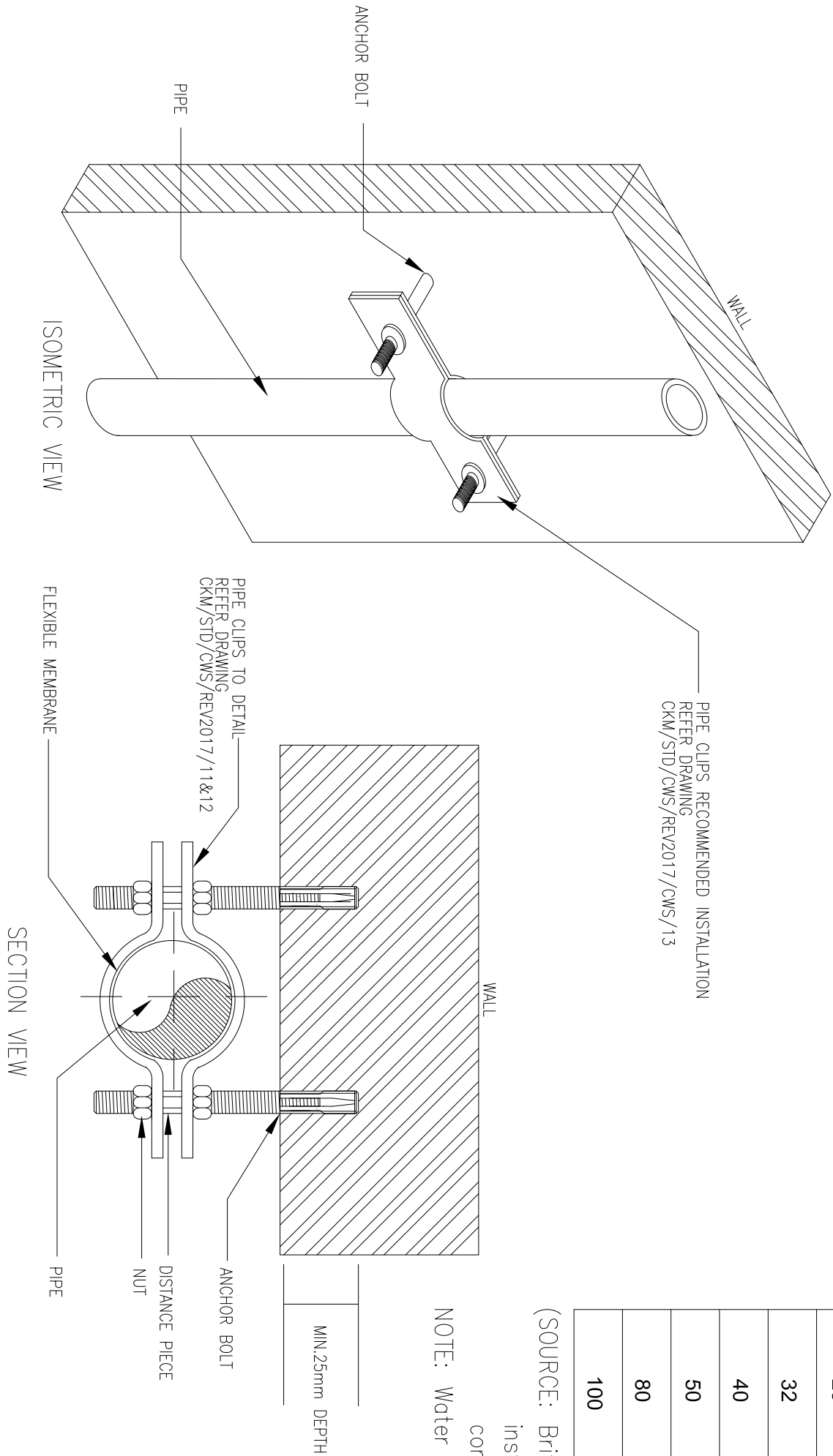
NO. RUJUKAN PROJEK: 200-PP11(BP1.5/3/25) MECHCW	TARIKH: 20 09 24 SEP	NAB CANSELOER			
		TIMBALAN NAB CANSELOER			
		PENGARAH LABATAN TEMBANGUNAN & INFRASTRUKTUR			
		KETUA BAHAGIAN PEMBANGUNAN INFRA. TS. MOHAMMED IZAL ABD. RAZAK			
TAJUK LUKISAN: TYPICAL INTERNAL COLD WATER PLUMBING DIAGNANNATIC LAYOUT		SKALA: 1:50		ARITEK	
DILUKIS OLEH		: MAZIAN SAAD		PENJURUS PROJEK / DISEMAK	
: MUHAMMAD ASYRAF ABD. AZIZ				NO HELAHAN: 03	

RECOMMENDED MAXIMUM SPACING OF SUPPORT
FOR ALL CLASSES OF PIPE FOR WATER (VERTICAL)

PIPE SIZE (mm)	RECOMMENDED MAXIMUM SPACING OF SUPPORTS (m)	
	NON-METAL	METAL
20	1.0	2.4
25	1.1	2.4
32	1.3	3.0
40	1.3	3.0
50	1.6	3.6
80	2.1	3.6
100	2.5	3.6

(SOURCE: British Standard Institute. (2010). BS EN 806–4: Specifications installations inside buildings conveying water for human consumption. Installation)

NOTE: Water temperature should not exceed 65°C



PIPE CLIPS VERTICAL SUPPORT

ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2,
3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN SENI
KREATIF (KRPSK), UTM SHAH ALAM.



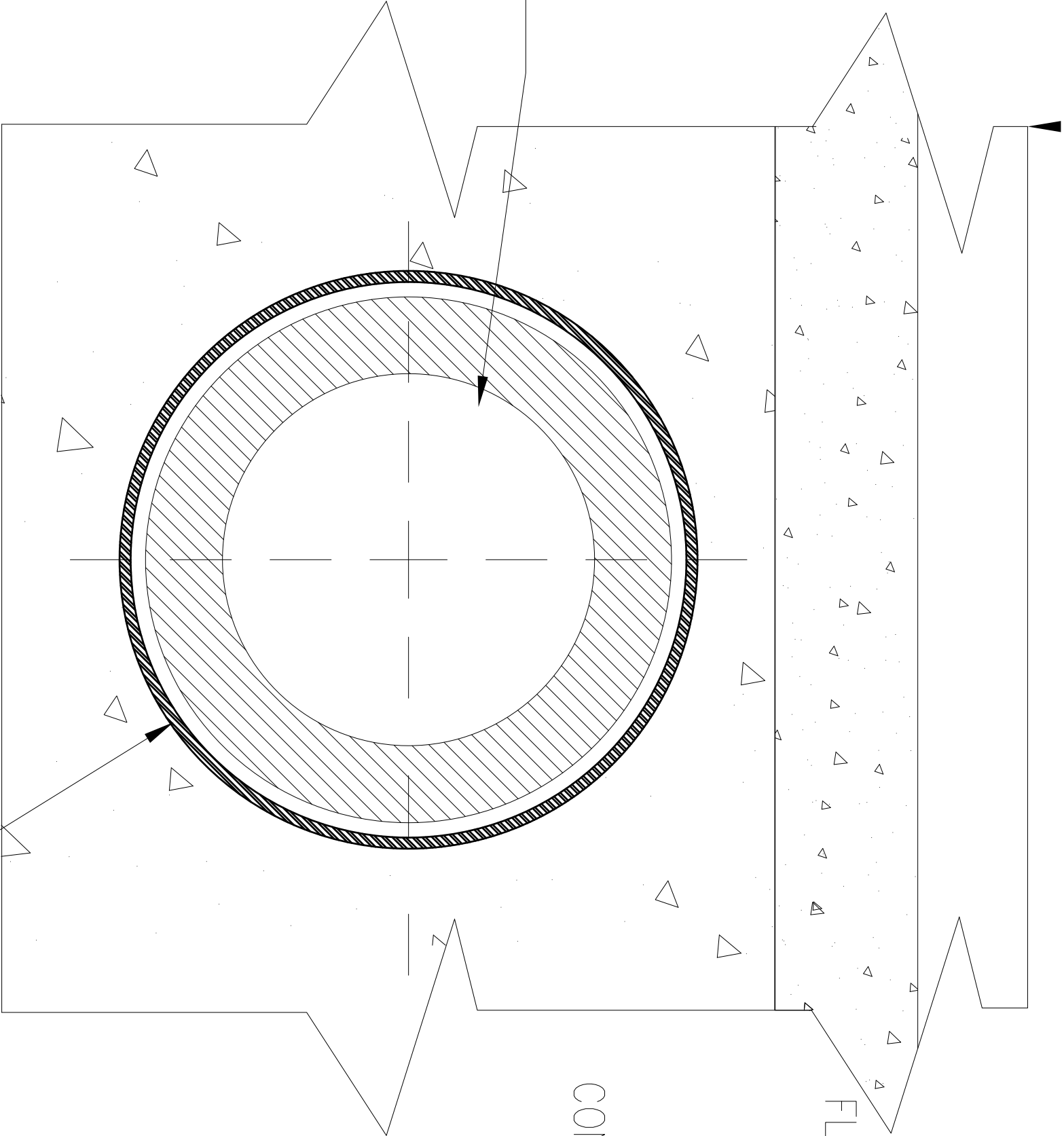
NO. RUJUKAN PROJEK: 200-PP11(BP1.5/3/25) MECHCW		TARIKH: 20 09 24 Sep		NAB CANSEIOR : DATUK PROF. TS. DR. SHAHRIN SAHIB @ SAHBUDIN		INDEXS PINDAAN	
TAJUK LUJUKAN: TERATAI BLOCK 2		SKALA:		PENGOJONG NAB CANSEIOR : PROF. TS. SR. DR MD. YUSOF HAMID			
PIPE CLIPS VERTICAL SUPPORT				PENGARAH JABATAN PEMBANGUNAN INFRASTRUKTUR : IR. TS. AZMAN SAUBIRAN			
				KETUA BAHAGIAN PEMBANGUNAN INFRA: TS. MOHAMMED IRFAL ABD. RAZAK			
				ARKITEK : ZULFADLI MOHAMED SALLEH			
				DILUKS OLEH : MAZLAN SAAD			
				PENGURUS PROJEK / DISEMAK : MUHAMMAD ASTYRI ABD. AZIZ		HELAJAN:	
						04	

FLOOR FINISH

FLOOR RENDERING

CONCRETE

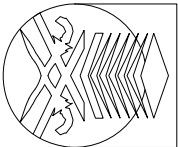
TYPICAL PLASTIC PIPE



TYPICAL INSTALLATION OF PLASTIC PIPE (ABS/HDPE/PPE/PVC/PPR PIPE) LAY IN CONCRETE

ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

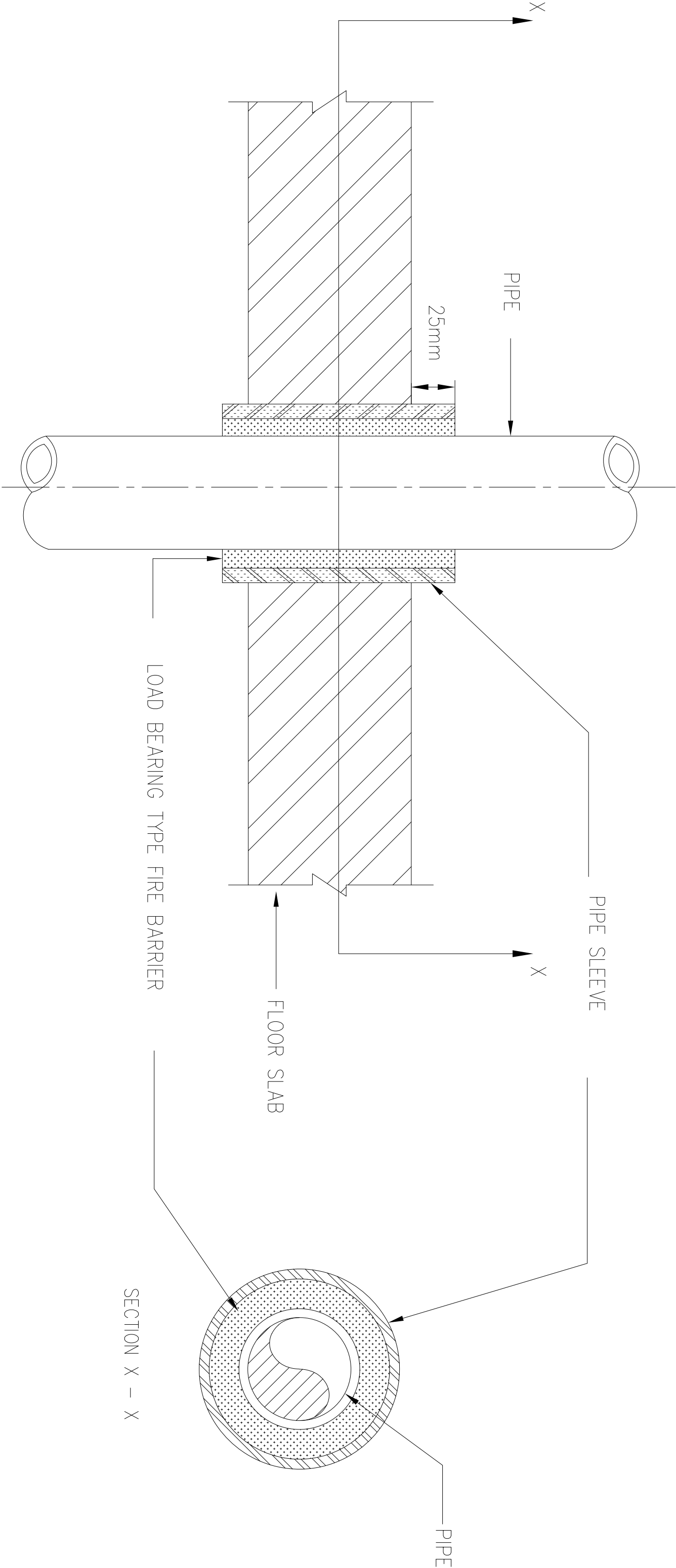
PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS
2, 3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN
SENI KREATIF (KPSK), UTM SHAH ALAM.



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NO. RUJUKAN PROJEK:		TARIKH:		NAIB CANSelor		INDEXS PINDAAN	
200PPI(BPI.5/3/25) MECHCW		20 09 24 Sep		PENOLONG NAIB CANSelor			
TAJUK LUKSAN: TERATAI BLOCK 2				: DATUK PROF. TS. DR. SHAHRIN SAHB @ SAHRUDIN			
TYPICAL INSTALLATION OF PLASTIC PIPE (ABS/HDPE/PPE/PVC/PPR PIPE)				: PROF. TS. SR. DR MD. YUSOF HAMID			
LAY IN CONCRETE				PENGARAH JABATAN PEMBANGUNAN INFRASTRUKTUR			
				: IR. TS. AZMAN SAUBIRAN			
				KETUA BAHAGIAN PEMBANGUNAN INFRA: TS. MOHAMMED IZRAL ABD. RAZAK			
				ARKITEK			
				: ZULFADU MOHAMED SALLEH			
				DILUKIS OLEH			
				: MAZIAN SAAD			
				PENGURUS PROJEK / DISEMAK			
				: MUHAMMAD ASYRIE ABD. AZZ			
						HELAIAN:	
						05	

CONDUIT/SLEEVE



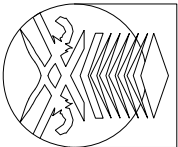
FRONT VIEW

NOTES : SLEEVE SHALL BE SAME MATERIAL OF PIPE

DETAIL OF PIPE SLEEVE THROUGH FLOOR/SLAB

ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2,
3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGAJIAN
SENI KREATIF (KPSK), UTM SHAH ALAM.

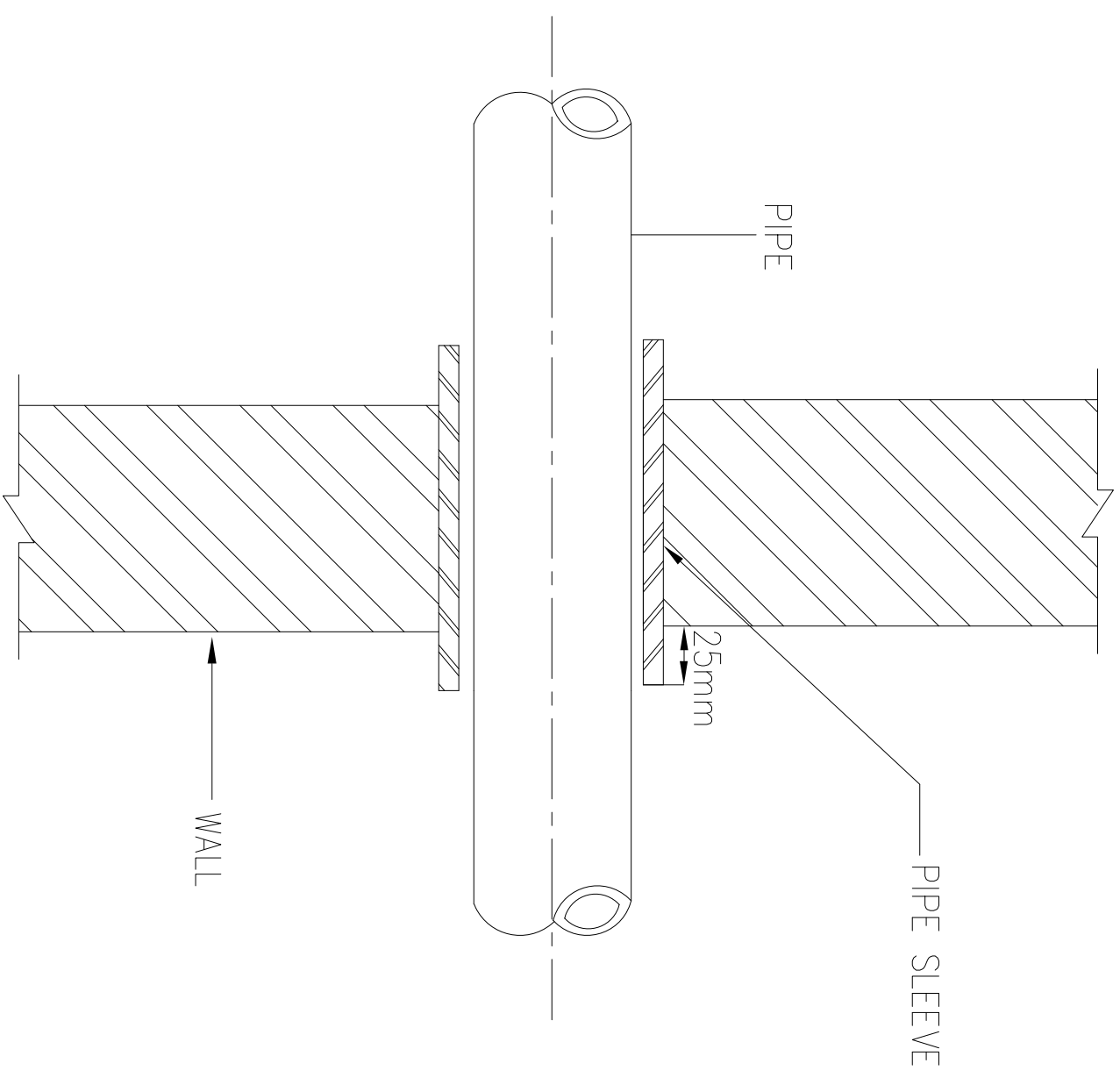
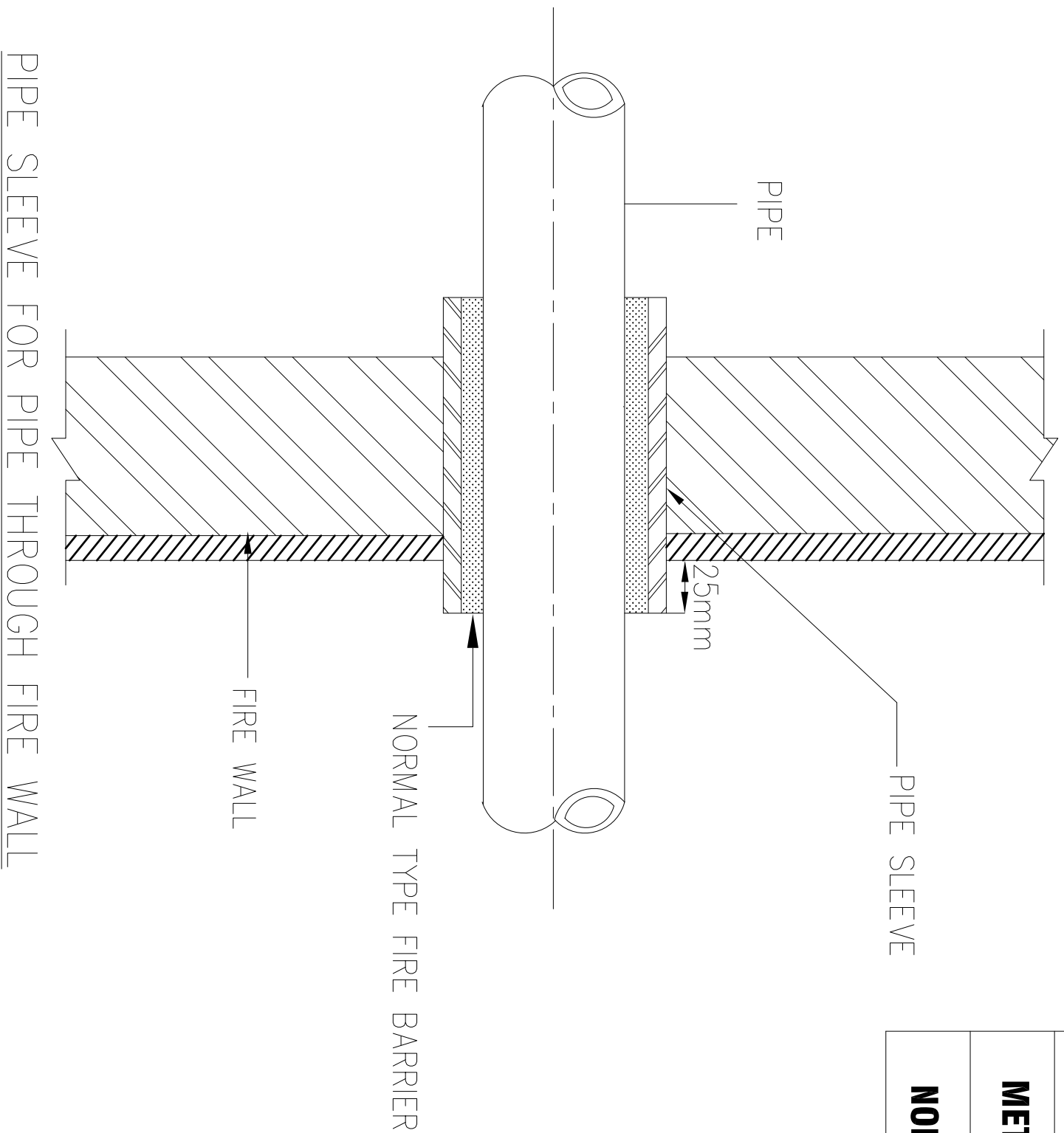


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NO. RUJUKAN PROJEK:		TARIKH:		NAB CANSELOR		INDEKS PINDAAN	
200-PP1(BP1.5/3/25) MECHCW		20 09 24 Sep		PENOLONG NAB CANSELOR			
TAJUK LUKSAN: TERATAI BLOCK 2		SKALA:		: DATUK PROF. TS. DR. SHAHRIN SAHIB @ SAHIBUDDIN			
DETAIL OF PIPE SLEEVE THROUGH FLOOR/SLAB		N.T.S		: PROF. TS. SR. DR MD. YUSOF HAMID			
				PENKASRUKTOR			
				KETUA BAHAGIAN PEMBANGUNAN INFRA: TS. MOHAMMED IZZAL ABD. RAZAK			
				ARKITEK			
				: ZULFADU MOHAMED SALLEH			
				DILUKS OLEH			
				: MAZIAN SAAD			
				PENGURUS PROJEK / DISWAYAK			
				: MUHAMMAD ASTRIFF ABD. AZIZ			
				HELAIAN:		06	

RECOMMENDED PIPE SLEEVE MATERIAL

PIPE MATERIAL	PIPE SLEEVE MATERIAL
METAL	GALVANIZED IRON
NON-METAL	UPVC (HEAVY DUTY)

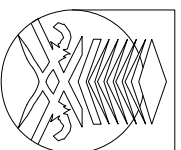


DETAIL OF PIPE SLEEVE THROUGH WALL



ARAS 2, 3, 4 & 5 - TANDAS STAF (P)

PROJEK:
CADANGAN KERJA-KERJA NAIK TARAF TANDAS DI ARAS 2, 3, 4 & 5, BLOK A, KOMPLEKS ILHAM, KOLEJ PENGHAJIAN SENI KREATIF (KPSK), UTM SHAH ALAM.



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NO. RUJUKAN PROJEK:		TARIKH:		INDEKS PINDAAN	
200-PP1(BP.5/3/25) MECH-CW		20 09 24 Sep			
TAJUK LUKSAN: TERATAI BLOCK 2		NAB: CANSEOR			
DETAIL OF PIPE		PENJOONG NAB: CANSEOR			
SLEEVE THROUGH WALL		PENGARAH JABATAN PEMBANGUNAN INFRASTRUKTUR			
SKALA:		: DATUK PROF. TS. DR. SHAHRIN SAHIB @ SAHBUDDIN			
N.T.S		: PROF. TS. SR. DR. MU. YUSOF HAMID			
		: IR. TS. AZMAN SAUBIRAN			
		KETUA BAHAGIAN PEMBANGUNAN INFRA: TS. MOHAMMED IZRAI ABD. RAZAK			
		ARTIKER: ZULFADU MOHAMMED SALEH			
		DILUKS OLEH: MAZIAN SAAD			
		PENGURUS PROJEK / DISEMAK: MUHAMMAD ASYRAF ABD. AZIZ			
		HEALAN:		07	