

マレーシア国  
職業訓練指導員・上級技能訓練センター  
建設終了時評価調査報告書

昭和61年5月

国際協力事業団  
無償資金協力計画調査部

無計計

SC

86-46

部内資料

マレーシア国  
職業訓練指導員・上級技能訓練センター  
建設終了時評価調査報告書

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昭和61年5月

国際協力事業団  
無償資金協力計画調査部

国際協力事業団		
受入 月日	'86. 8. 22	113
		21.3
登録No.	15234	GRP

## ま え が き

無償資金協力計画調査部が実施する無償資金協力事業の建設終了時評価調査は、実施案件の建設終了に伴ない案件の完成実体を確認すると共に、案件の実施に携わった関係者の実施した事業、業務について建設終了時における評価を行なうものである。

本報告書は、マレーシア国職業訓練指導員・上級技能訓練センター（C I A S T）を対象に評価調査を外務省経済協力局調査計画課 川杉 直氏を団長として昭和61年1月23日から2月2日までの11日間にわたり実施し、その結果を報告書にまとめられたものである。

1986年5月

国際協力事業団  
無償資金協力計画調査部

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## 1. プロジェクトの沿革

- 1981年 1月 鈴木総理大臣（当時）がアセアン諸国を歴訪し、「アセアン人造り協力構想」を提唱
- マレーシア政府は本件対象プロジェクトとして、第4次マレーシア計画（1981～1985）に基づく人材開発の一環として本CIAS設立を計画し、我が国にプロジェクト方式技術協力及び無償資金協力を要請越す。
- 1981年 8月 二次にわたり技術協力予備調査団を派遣しマレーシア側の提案に係る協力構想を明確化
- 1981年12月
- 1982年 4月 事前調査団を派遣し技術協力マスタープランを作成。  
（無償資金協力の事前調査団との合同ミッション）
- 1982年 6月 無償資金協力基本設計調査団を派遣
- 1982年 8月 プロジェクト方式技術協力に関する討議議事録（R/D）署名  
技術協力開始
- 1982年11月 無償資金協力（第一期）E/N署名
- 1983年 3月 カウンターパート日本研修開始
- 1983年 7月 日本人専門家派遣開始
- 1983年12月 無償資金協力（第二期）E/N署名
- 1984年 3月 第一期建設工事・機器据付完了
- 1984年 5月 職業訓練指導員養成コース開始
- 1984年 8月 上級技能訓練コース（自動車科）開始
- 1985年 3月 第二期建設工事・機器据付完了
- 1985年 5月 全科訓練開講
- 1985年 8月 鈴木前総理大臣の出席を得て開所式挙行



## 2. 無償資金協力の概要

案 件 名 : マレーシア国職業訓練指導員・上級技能訓練センター計画  
: THE CENTRE FOR INSTRUCTOR AND ADVANCED SKILL TRAINING  
IN MALAYSIA

実 施 時 期 : 事前調査 1982年 4月 8日～1982年 4月22日  
基本設計調査 1982年 6月 6日～1982年 6月26日  
報告書説明 1982年 8月 4日～1982年 8月13日  
実施設計  
第一期工事分 1982年 9月 ～1982年12月  
第二期工事分 1983年 7月 ～1984年 1月  
建設及び施工監理  
第一期工事分 1983年 5月16日～1984年 3月31日  
第二期工事分 1984年 5月 6日～1985年 3月15日

交換公文締結日 : 第一期工事分 1982年11月30日 (¥1,740,000,000)  
第二期工事分 1983年12月16日 (¥2,060,000,000)

コンサルタント : 第一期工事分 1983年 1月13日  
契約締結日 第二期工事分 1984年 3月12日

工事契約締結日 : 第一期工事分 1983年 5月 4日(一括請負)  
第二期工事分 1984年 4月23日(機材調達工事は 5月10日)

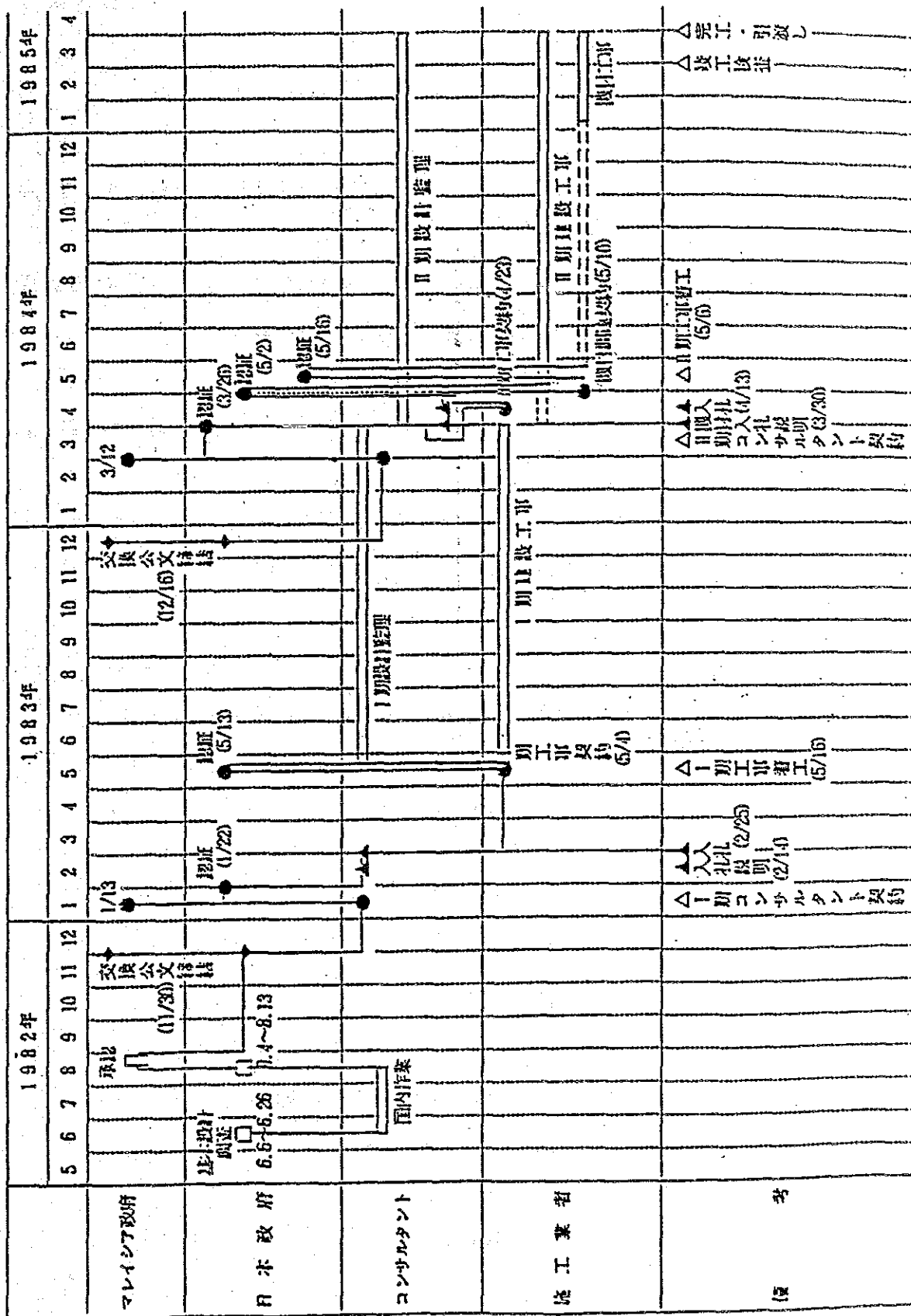
コンサルタント名 : ㈱日本設計事務所

受 注 会 社 名 : 建設工事 大成建設㈱

機材調達 三朋インターナショナル㈱ (第二期工事のみ)

施 主 : マレーシア国労働省人的資源局

基本設計から完工に至るまでのフローチャート



### 3. 建物の概要

所在地 : セランゴール州 シャーアラム市

施設用途 : 上級職業訓練センター

施設の構造等 : 鉄筋コンクリート造  
4階、一部2階及び平屋建(10棟)

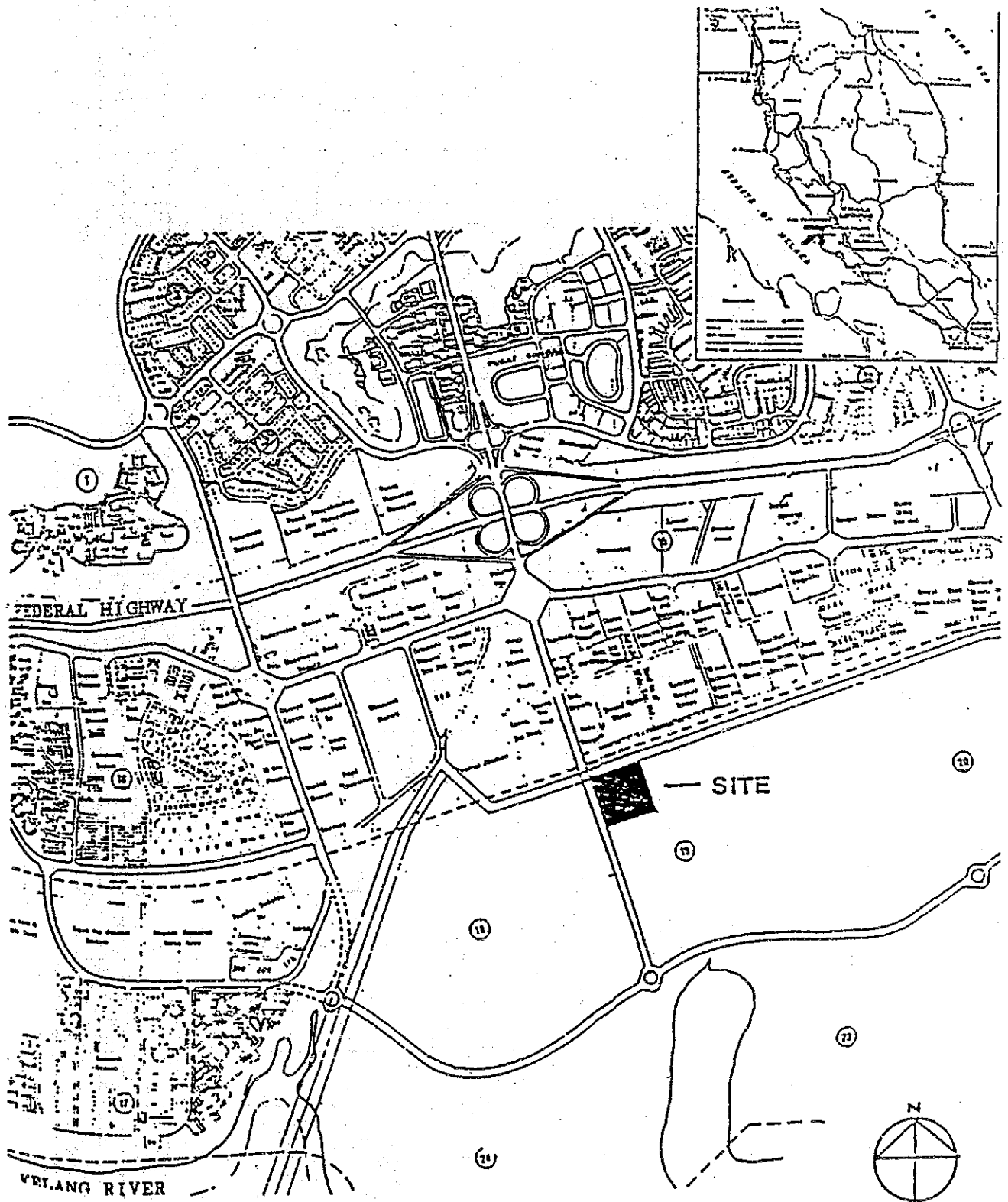
敷地面積 : 64,183 m<sup>2</sup>

建築面積 : 第一期工事 5,388 m<sup>2</sup>  
第二期工事 5,331 m<sup>2</sup>      合計 10,719 m<sup>2</sup>

延床面積 :

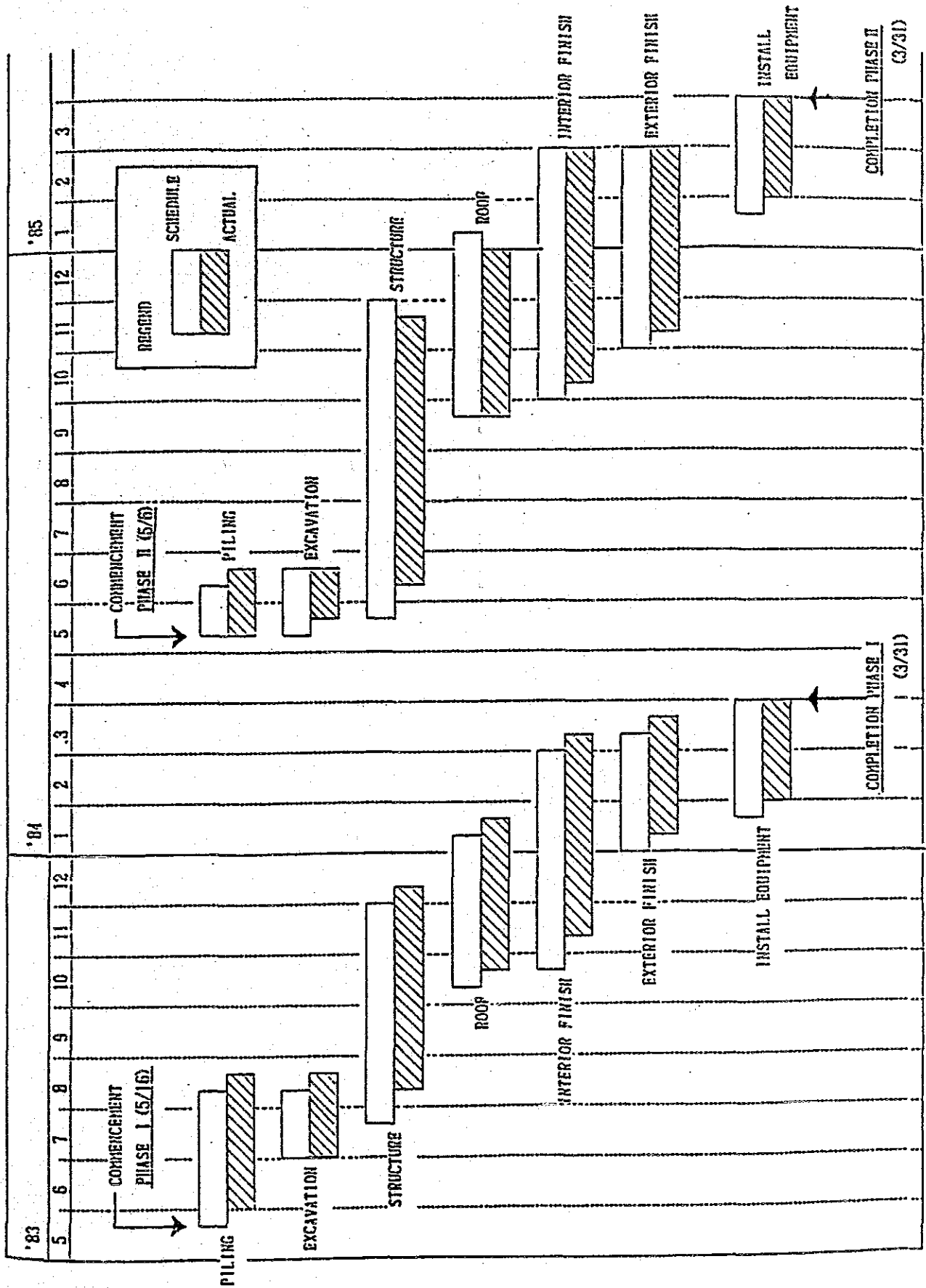
第一期工事	9,182 m <sup>2</sup>	本館	3,471.99 m <sup>2</sup>
		食堂	666.32 m <sup>2</sup>
		実習棟(1)	1,602.32 m <sup>2</sup>
		“(2)	451.91 m <sup>2</sup>
		変電所	227.59 m <sup>2</sup>
		寄宿舍	1,710.12 m <sup>2</sup>
		渡り廊下等	1,052.35 m <sup>2</sup>
第二期工事	9,391 m <sup>2</sup>	実習棟(3)	2,985.77 m <sup>2</sup>
		“(4)	2,664.31 m <sup>2</sup>
		寄宿舍	3,171.94 m <sup>2</sup>
		渡り廊下等	568.82 m <sup>2</sup>

合計 18,573 m<sup>2</sup>



LOCATION MAP

工 日 程 表





#### 4. 建物概略図面／機材リスト

(1) 建物概略図面 (但し、竣工図の抜粋)

# THE CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING

ARCHITECTURAL WORK

STRUCTURAL WORK

ELECTRICAL WORK

MECHANICAL WORK

JANUARY 1983

CONSULTANT ARCHITECTS AND ENGINEERS



**NIHON ARCHITECTS' ENGINEERS  
& CONSULTANTS' INC.**



ITEMS	FINISHES	①	②	③	④	⑤	⑥	⑦	⑧
		MAIN BUILDING (1) M.1	MAIN BUILDING (2) M.2	DINING -ALL/ KITCHEN	KITCHEN ANCILLARY FACILITIES	DORMITORY	TECHNICAL TRAINING BLOCK (1) T.B.1	TECHNICAL TRAINING BLOCK (2) T.B.2	TOWER SUB-STATION
ROOF	MAIN ROOF	METAL ROOF DECK	RIB HEIGHT OR PROFILED SHEET						
	CANOPY ROOF		90MM						
	WATER TANK SPACE		20MM						
	TERRACE ROOF	BITUMEN EMULSION WATER PROOFING							
	ACROSS BRIDGE ROOF								
EAVE GUTTER	ASPHALT COMPOUND BASE WEATHER COATED STEEL SHEET								
EXTERNAL WALL	WALL GENERAL	AP = ACRYL ENAMEL PAINT ON	IN SITU CONCRETE (COLUMN BEAM)						
			CEMENT-SAND MORTAR						
			HOLLOW BLOCK						
	WALL - GABLE WALL, SKIRT UNDER WINDOW	APL - HIGH BUILD SMD TEXTURED COMPOUND (SOLVENT BASED OR WATER BASED TYPE)	TONE CRETE (TUDUKRA KATEL) MEDIUM ROLLER FINISH OR OTHER						
	SKIRTING BETWEEN GL-GF		IN SITU CONCRETE						
EXTERNAL IRONMONGERY	RAINWATER OUTLET	CAST IRON φ 125							
	RAINWATER PIPE	HOT DIP GALV. PLUMBING STEEL PIPE 125φ AP							
	GRILLE	ANODIZED ALUMINUM							
	LADDER	STAINLESS STEEL 3E φ (VERTICAL) x 22 φ (HORIZONTAL)							
EXTERNAL STAIRS & RAMPS	STAIR RAMP	SEE APPROPRIATE DRAWG.							

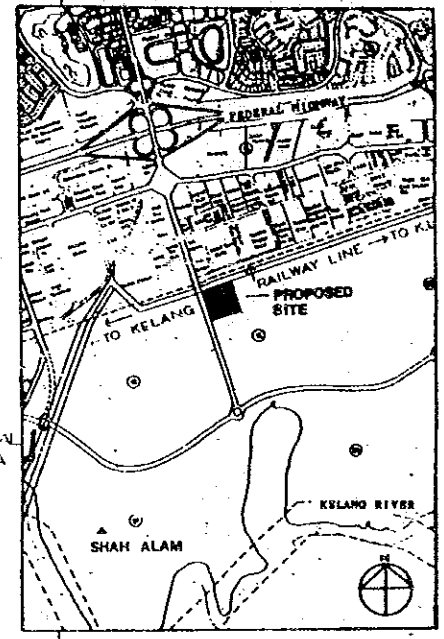
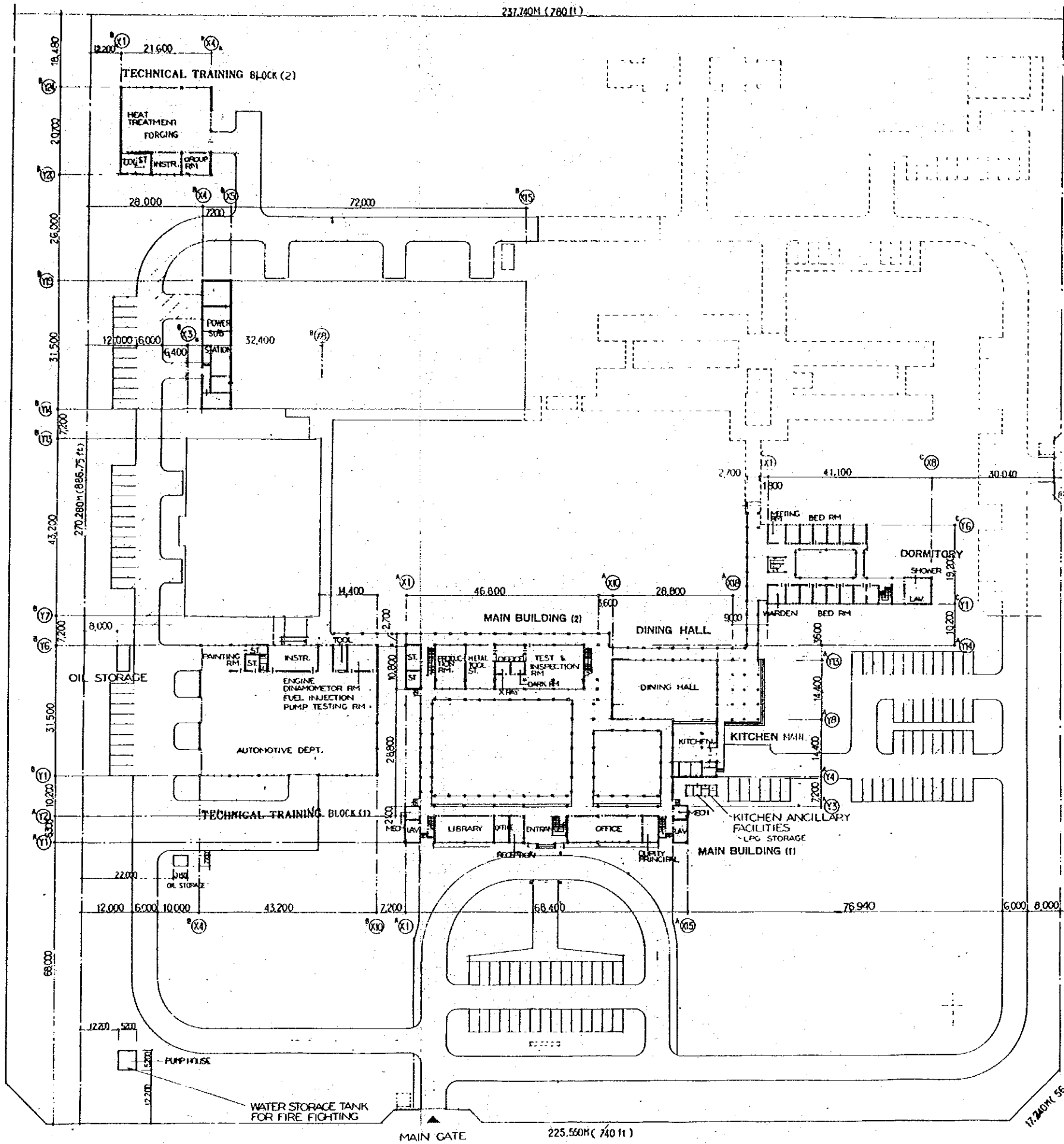
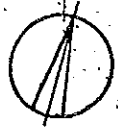
ALONG

AS-BUILT DRAWING

 <b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b>	APPROVED: <i>[Signature]</i> 15.2.10 CHECKED: <i>[Signature]</i> 15.2.10 DRAWN: <i>[Signature]</i> 15.2.10	ARCHITECT: DINA S.S.A. ARKITER 12-A JALAN 55 21/37 DAMANSARA UTAMA PETANG JAYA TEL: 784222	CONSULTANT: JET SON SMO 11/11/10, 11/11/10 24 JALAN BELAKANG BEKOH BANGSABA EL TEL: 6017/6000	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SHAH ALAM, FOR KEMENTERIAN BURUH DAN TENAGA BAKYAT	KEMENTERIAN BURUH DAN TENAGA BAKYAT WISMA MPE JALAN RAJA CHULAK KUALA LUMPUR	TITLE: EXTERIOR FINISH SCHEDULE SCALE:	NO: 1008
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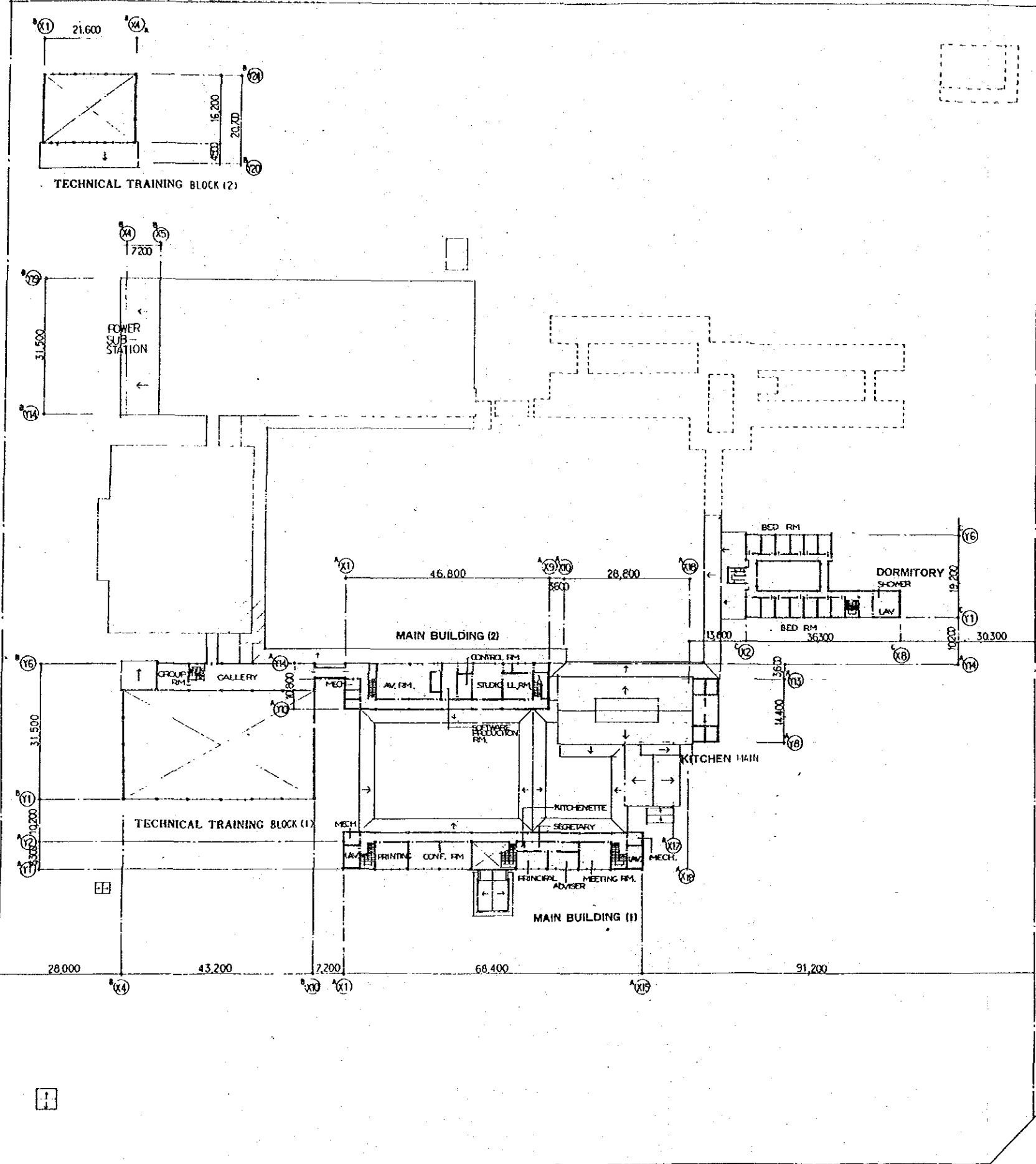


- INDEX
- JAPANESE PORTION
  - MALAYSIAN PORTION
  - FUTURE PLAN

AS-BUILT DRAWING

**NIHON ARCHITECTS, ENGINEERS & CONSULTANTS, INC.**

<p>COMMISSIONER GENERAL BURU DAN TENAGA RAKYAT KUALA LUMPUR</p>	<p>TITLE SITE PLAN - GROUND FLOOR</p>	<p>NO. 1101 ARCHITECTURAL</p>
<p>COMMISSIONER GENERAL BURU DAN TENAGA RAKYAT KUALA LUMPUR</p>	<p>SCALE 1/500</p>	<p>DATE 11/11/66</p>
<p>FOR INSTRUCTOR &amp; ADVANCED SKILL TRAINING ON LOT 19, SHAH ALAM, FOR KEMENTERIAN BURU DAN TENAGA RAKYAT MALAYSIA</p>		
<p>PROJECT NO. 1101</p>		
<p>DATE 11/11/66</p>		



**NIHON ARCHITECTS, ENGINEERS & CONSULTANTS, INC.**

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 CHECKED: *[Signature]*  
 DRAWN: *[Signature]*

CONSULTANTS ARCHITECTS AND ENGINEERS

100, 101 & 102  
 DANGSARA UTAMA  
 PETALING JAYA  
 TEL: 714528

Company Name  
 100, 101 & 102  
 DANGSARA UTAMA  
 PETALING JAYA  
 TEL: 714528

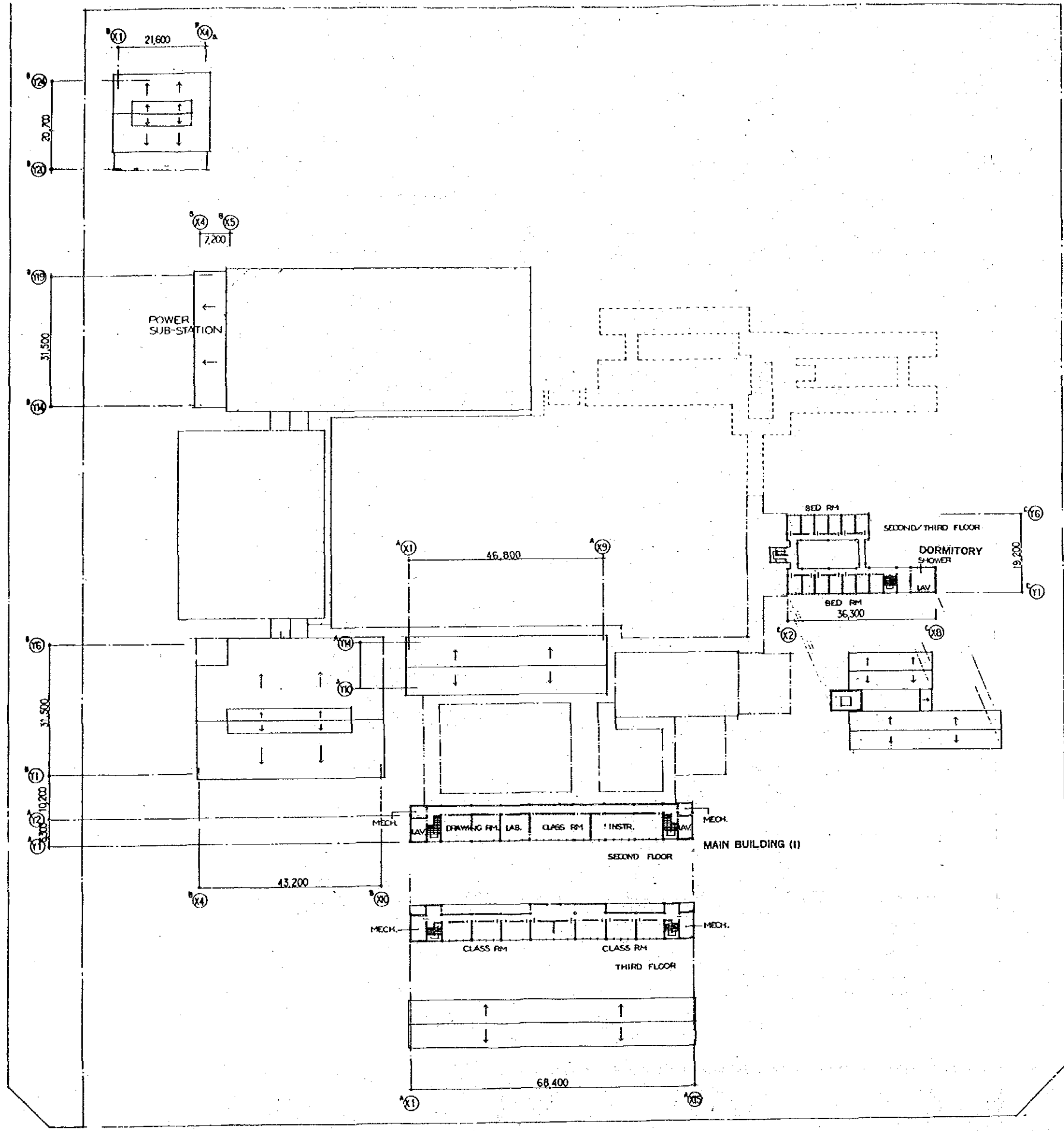
CENTRE FOR INSTRUCTOR & ADVANCED  
 SKILL TRAINING ON LOT 19,  
 SHAH ALAM, FOR KEMENTERIAN  
 BURUH DAN TENAGA RAKYAT MALAYSIA

CONSTRUCTION WORK  
 DAN TEKNIK RAKYAT  
 WISMA 191 JALAN PAJAJA ORKID  
 KUALA LUMPUR

TITLE: SITE PLAN - FIRST FLOOR  
 SCALE: 1 / 500

NO: 1102  
 ARCHITECTURAL

*Nihon*  
 AS-BUILT DRAWING

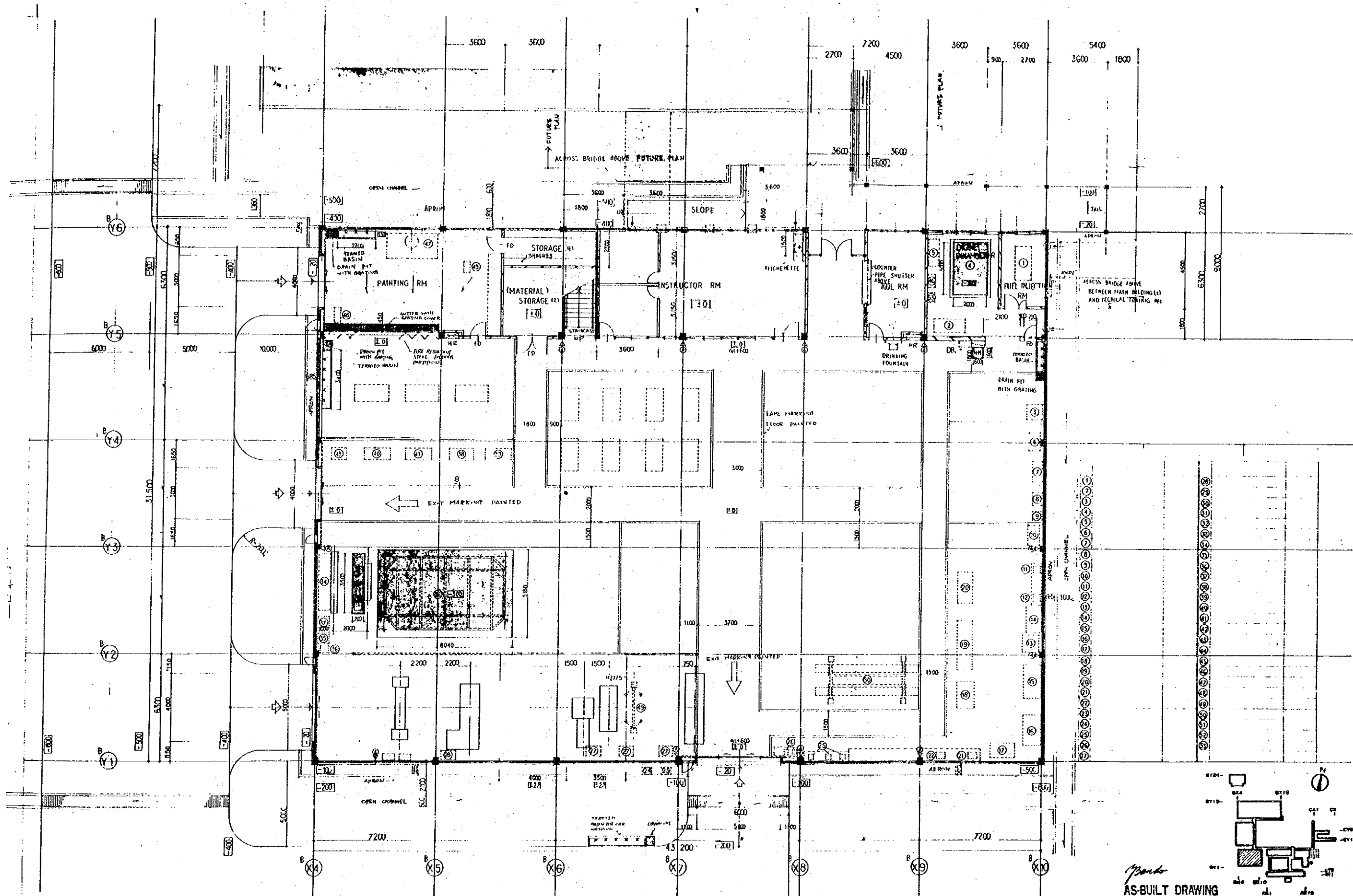


AS-BUILT DRAWING

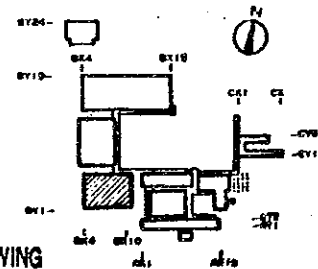
APPROVED BY: *[Signature]*  
 CHECKED BY: *[Signature]*  
 DRAWN BY: *[Signature]*

**NIHON ARCHITECTS, ENGINEERS & CONSULTANTS, INC.**  
 REGISTERED ARCHITECTS AND ENGINEERS  
 153A JALAN SS 17/9  
 DAMANSARA UTAMA  
 PETANG JAYA  
 TEL: 746333

NO. 1103	ARCHITECTURAL
TITLE: SITE PLAN - SECOND / THIRD FLOOR	
SCALE: 1 / 500	
PROJECT: CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SHAH ALAM FOR KEMENTERIAN BURUH DAN TENAGA BAKYAT MALAYSIA	
OWNER: KEMENTERIAN BURUH MALAYSIA, JALAN BAKYAT BANGSA, PUTRAJAYA	



*Panda*  
AS-BUILT DRAWING



CONSULTANT ARCHITECTS AND ENGINEERS  
**NIHON ARCHITECTS, ENGINEERS & CONSULTANTS, INC.**

APPROVED: [Signature]  
 CHECKED: [Signature]  
 DRAWN: [Signature]

ARCHITECT  
 DOKENSAKURITA  
 125A JALAN 55 31/37  
 DAMANSARA UTAMA  
 PETAIING JAYA  
 TEL. 784828

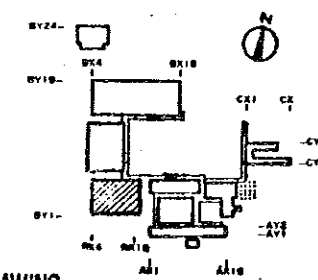
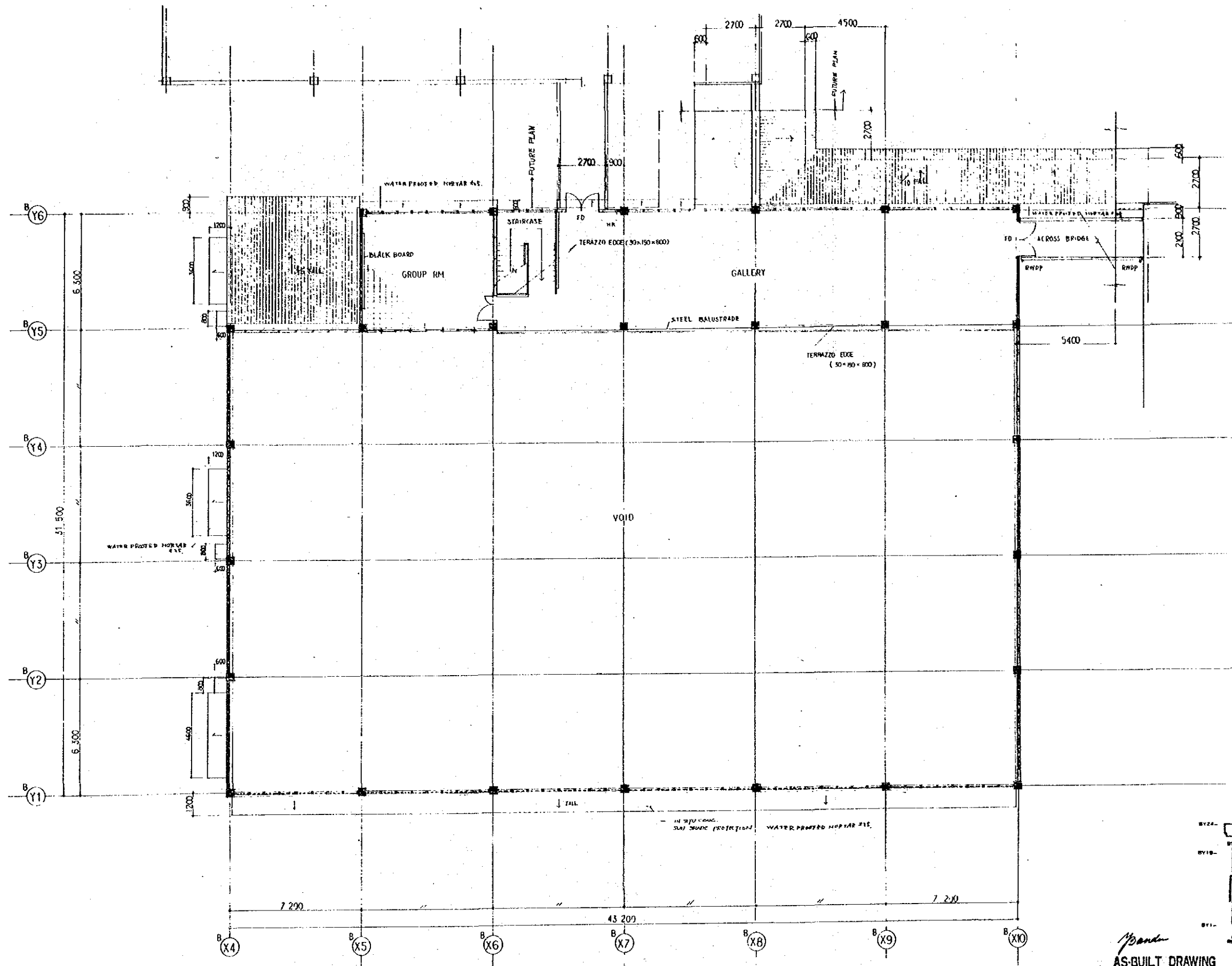
CONSULTANT  
 [Signature]  
 [Signature]  
 [Signature]

CENTRE FOR INSTRUCTOR & ADVANCED  
 SKILL TRAINING ON LOT 19,  
 SHAH ALAM, FOR KEMENTERIAN  
 BURUH DAN TENAGA RAKYAT MAJLIS


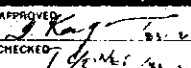


OWNER  
 KEMENTERIAN BURUH  
 DAN TENAGA RAKYAT  
 WISMA NPL JALAN RAJA CRAMA,  
 KUALA LUMPUR

TITLE  
 TECHNICAL TRAINING BLOCK (1)  
 GROUND FLOOR PLAN  
 SCALE  
 1/100

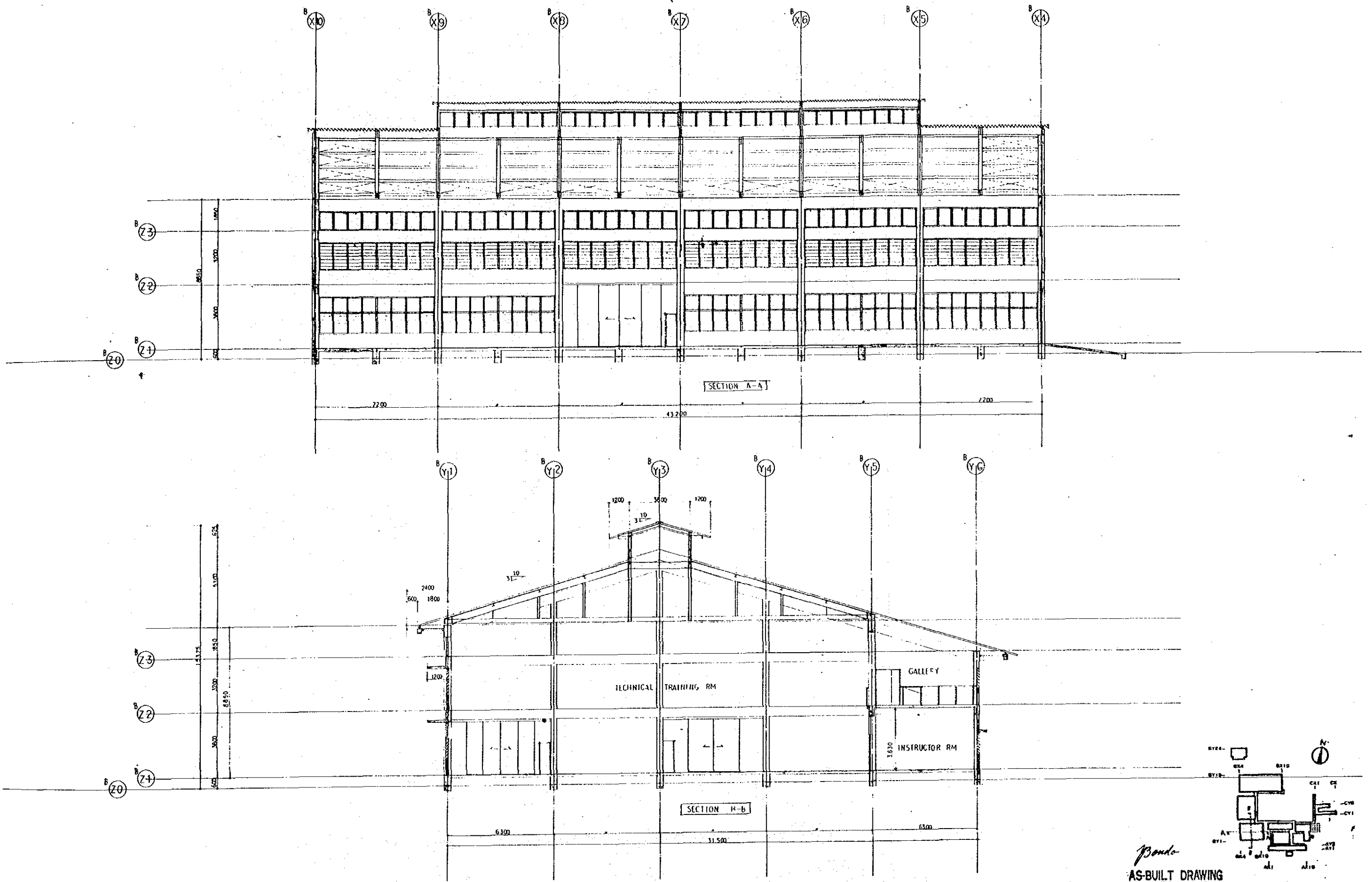
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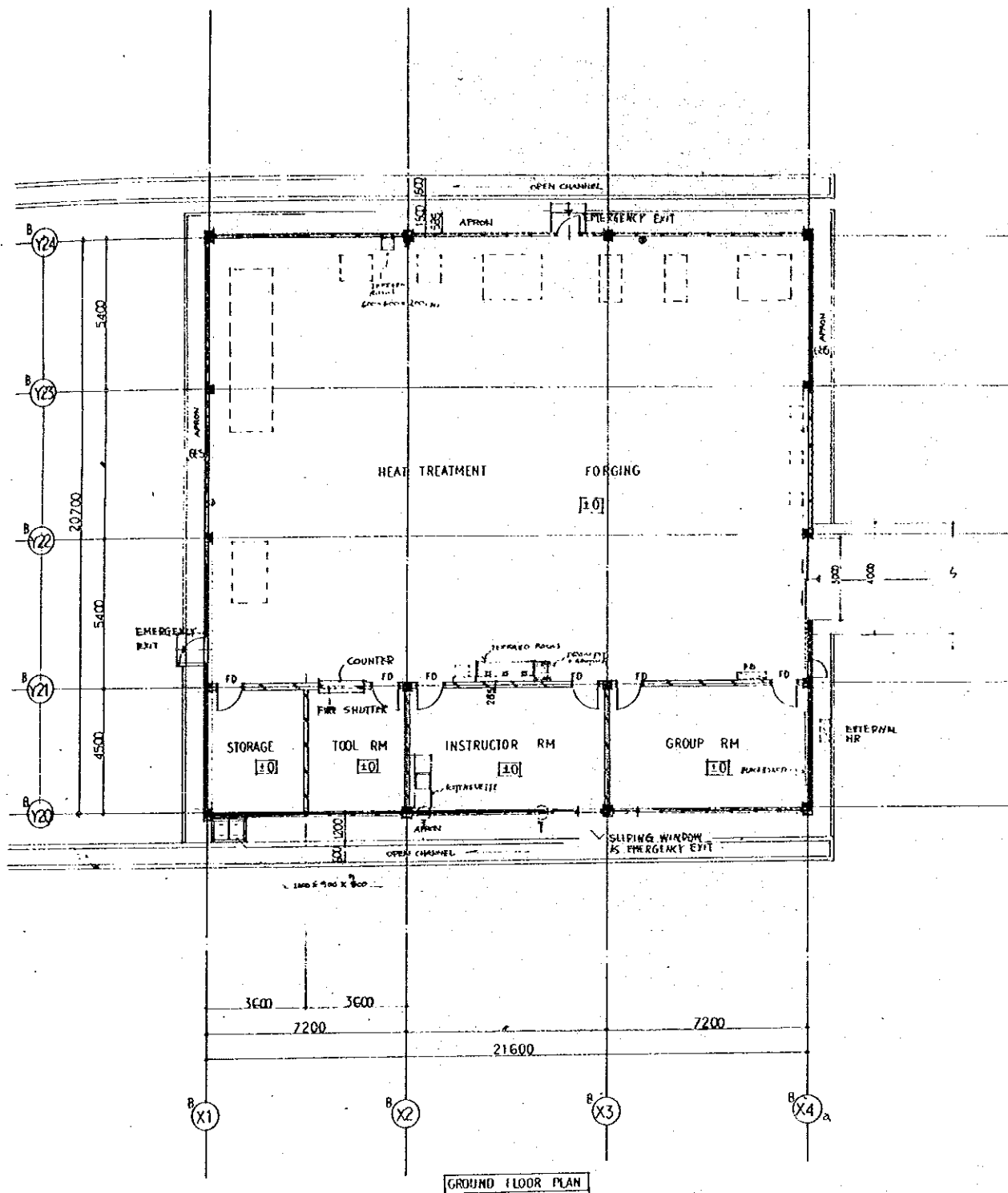
 <b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b> <small>CONSULTANT ARCHITECTS AND ENGINEERS</small>	APPROVED  CHECKED  DRAWN 	ARCHITECT DIMENSIARKITEKI 125A JALAN SS 21/37 DAMANSARA UTAMA PETAJUNG JAYA TEL. 764228	CONSULTANT SHY SHY SHY REGISTERED ENGINEER 84 JALAN BETHLEHEM NEGARA BANGSARERA, KL. TEL. 9451710000	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SHAH ALAM, FOR KEMENTERIAN BURUH DAN TENAGA RAKYAT MALAYSIA	KEMENTERIAN BURUH DAN TENAGA RAKYAT WISMA MPE, JALAN RAJA CHULAH, KUALA LUMPUR	TITLE TECHNICAL TRAINING BLOCK (1) FIRST FLOOR PLAN SCALE 1 / 100	NO 1126 ARCHITECTURAL
	7-9						



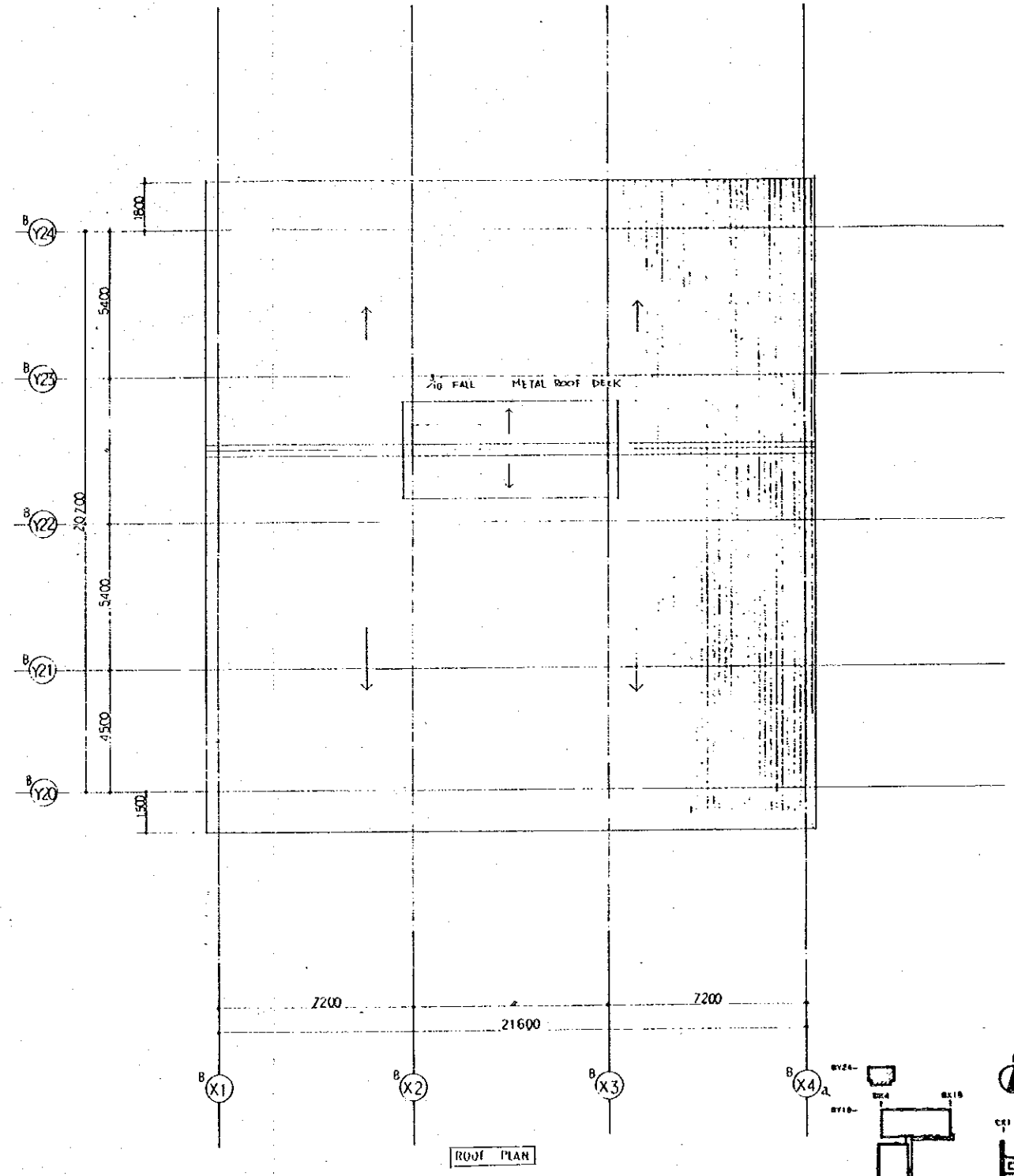


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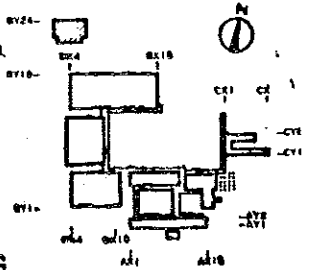
 <b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b> <small>CONSULTANT ARCHITECTS AND ENGINEERS</small>	APPROVED: <i>[Signature]</i> CHECKED: <i>[Signature]</i> DRAWN: <i>[Signature]</i>	ARCHITECT: DIMENSI/ARKITEK) 125A JALAN SS 21/37 DAMANSARA UTAMA PETANG JAYA TEL. 784228	CONSULTANT: HUP HUI BOO CONSULTING ENGINEER 88 JALAN SETAPURVA MEDAN DAMANSARA EL. TEL. 84147/84888	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SHAH ALAM, FOR KEMENTERIAN HURUH DAN TENAGA RAKYAT "M1"	OWNER: KEMENTERIAN BUREH DAN TENAGA RAKYAT WISMA MPE JALAN RAZA CHULAN, KUALA LUMPUR	TITLE: TECHNICAL TRAINING BLOK (1) SECTION	NO. 1129 ARCHITECTURAL
	SCALE: 1/100						



GROUND FLOOR PLAN

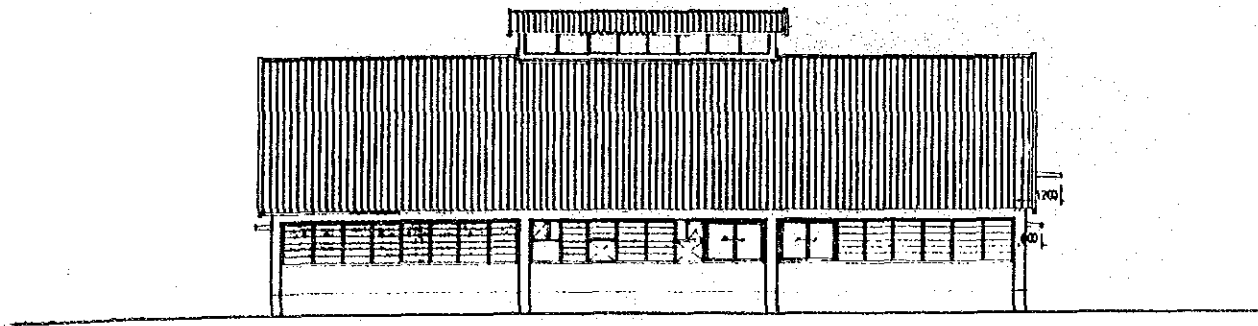


ROOF PLAN



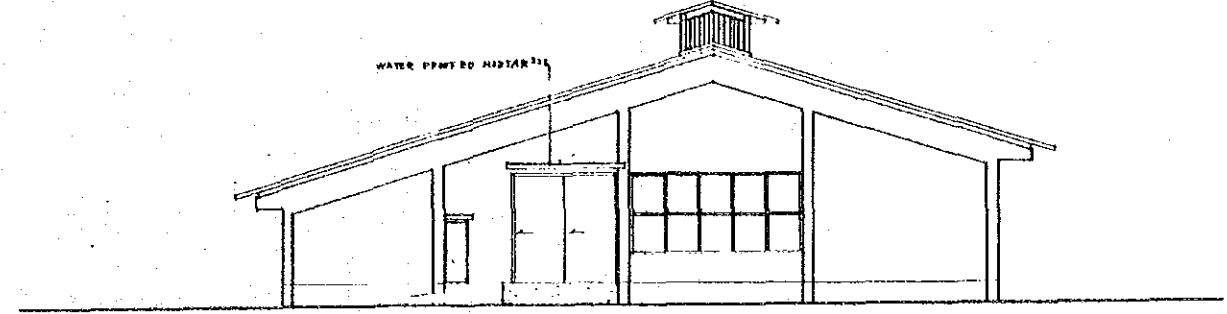
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AS-BUILT DRAWING

CONSULTANT ARCHITECTS AND ENGINEERS <b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b>	APPROVED: <i>[Signature]</i> CHECKED: <i>[Signature]</i> DRAWN: <i>[Signature]</i>	ARCHITECT DIMENSAIARKITEK 125A JALAN SS 31/37 DAMANSARA UTAMA PETAIING JAYA TEL 784228	CONSULTANT PMP DAN BPD CONSULTING ENGINEERS 38 JALAN BETAJAPURA BEKOH DAMANSARA, KL. TEL. 95317-9488	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SHAH ALAM, FOR KEMENTERIAN BURUH DAN TENAGA RAKYAT MALAYSIA	OFFICE KEMENTERIAN BURUH DAN TENAGA RAKYAT WISMA MTE, JALAN RAJA CHULAN, KUALA LUMPUR	TITLE TECHNICAL TRAINING BLOCK (2) GROUND FLOOR PLAN / ROOF PLAN	NO 1130
	SCALE 1/100						ARCHITECTURAL



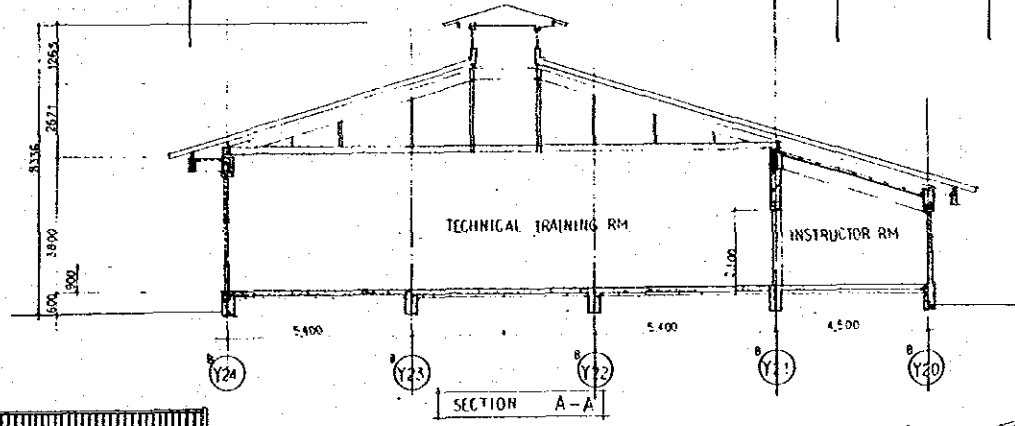
SOUTH ELEVATION

B (X1) B (X2) B (X3) B (X4)

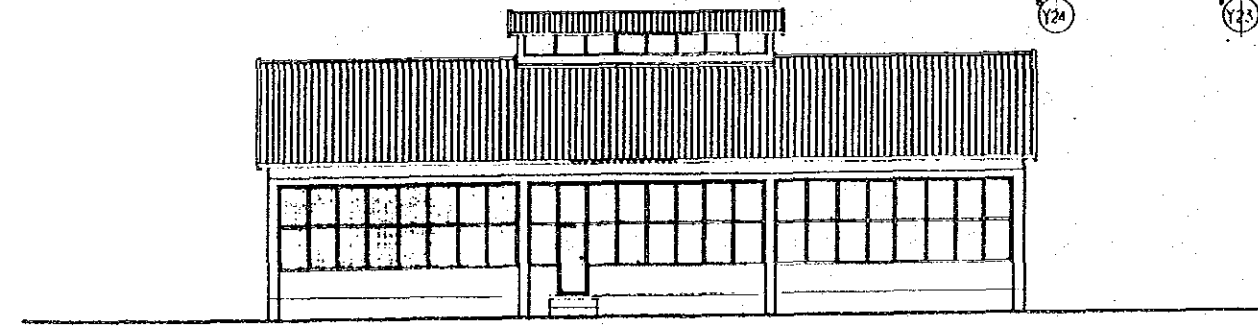


EAST ELEVATION

B (Y21) B (Y21) B (Y22) B (Y23) B (Y24)

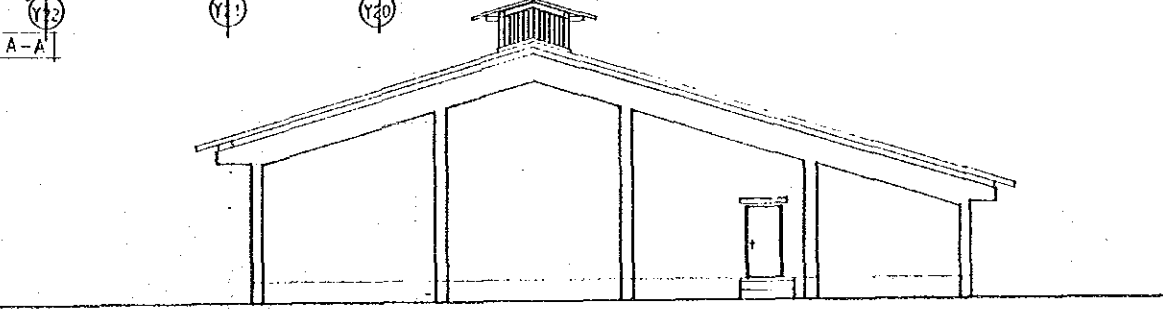


SECTION A-A



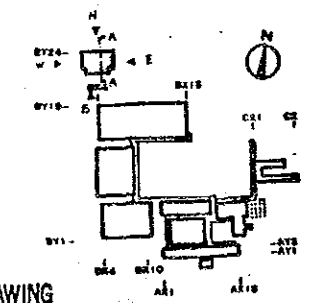
NORTH ELEVATION

B (X4) B (X3) B (X2) B (X1)




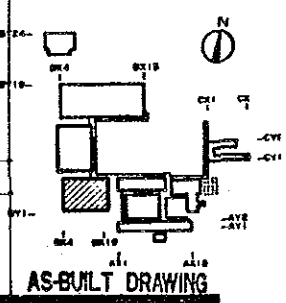
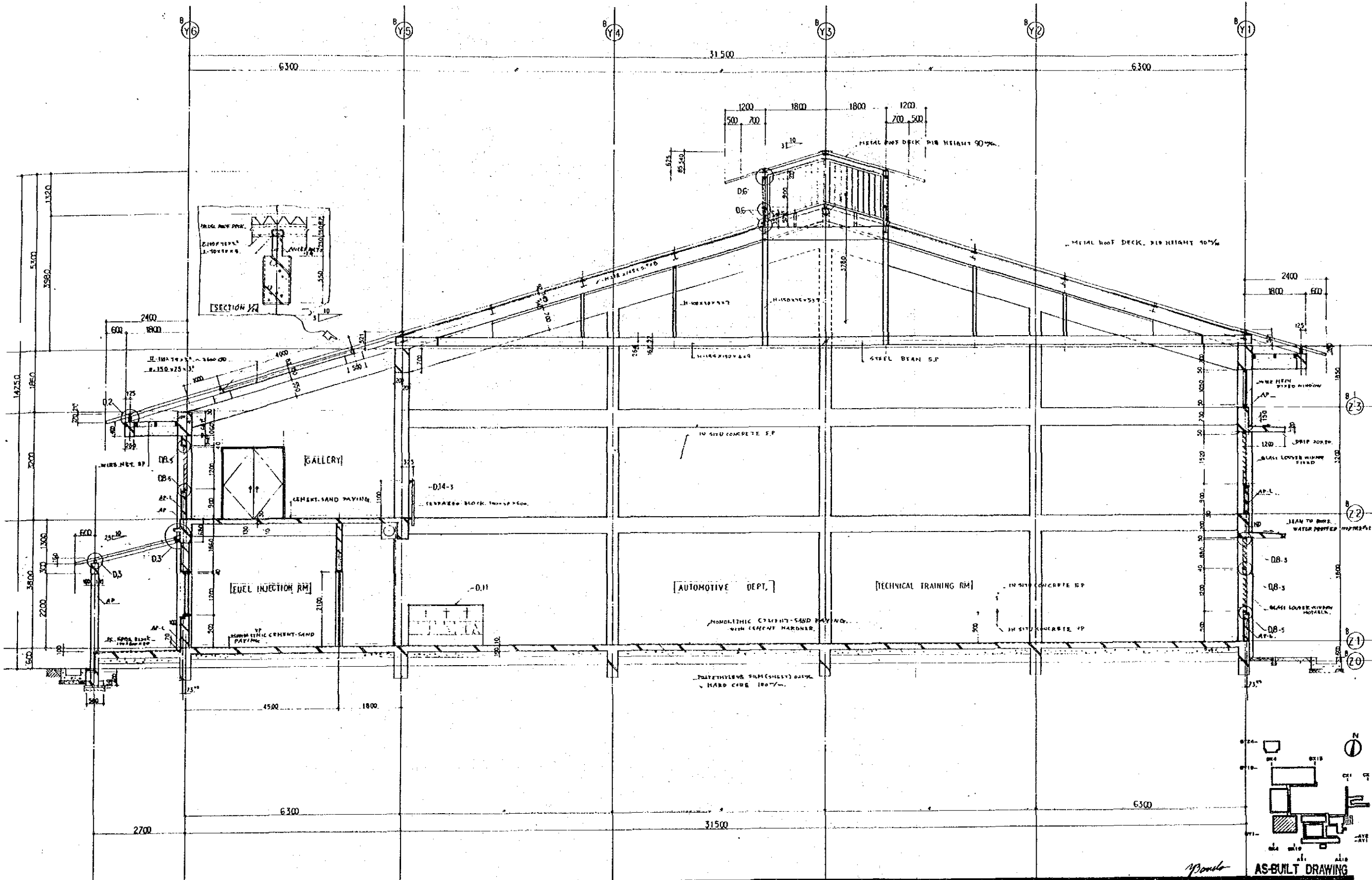
WEST ELEVATION

B (Y24) B (Y23) B (Y22) B (Y21) B (Y20)

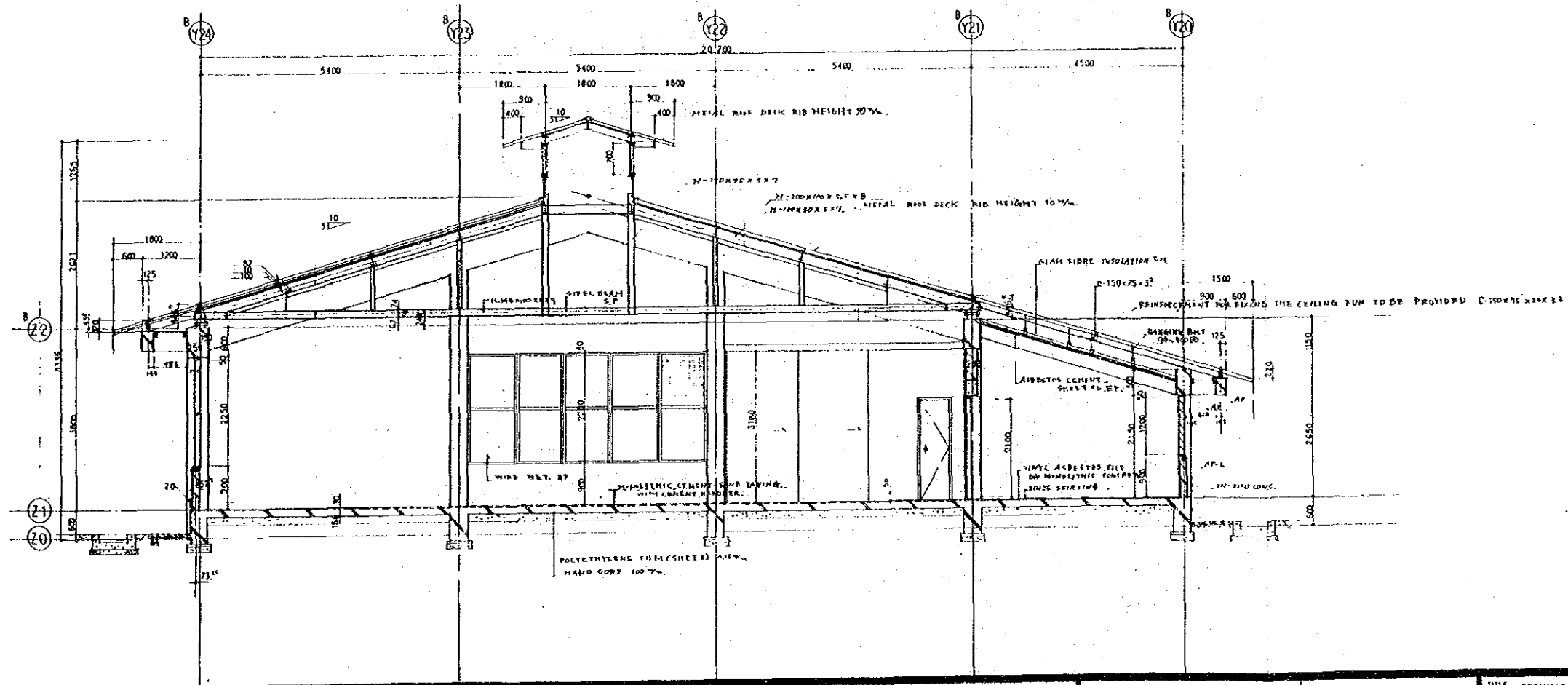
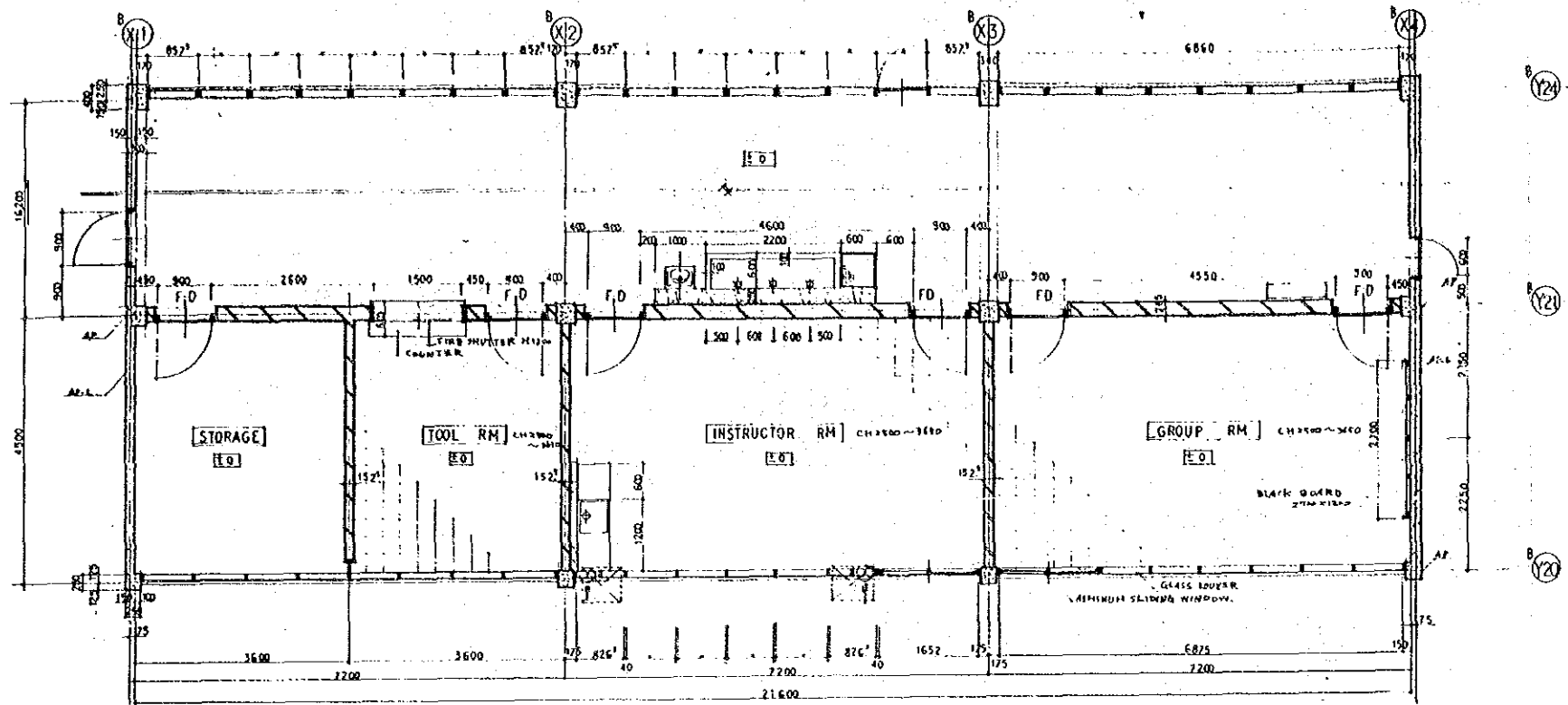


AS-BUILT DRAWING

 <b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b> <small>CONSULTANT ARCHITECTS AND ENGINEERS</small>	APPROVED: <i>[Signature]</i> CHECKED: <i>[Signature]</i> DRAWN: <i>[Signature]</i>	ARCHITECT: DINIENSARKITOK 1851 JALAN SS 21/37 DAMANSARA UTAMA PETANG JAYA TEL. 784228	CONSULTANT: DRP. BOH SIB (CONSULTING ENGINEER) 94 JALAN SETIA PURA MEDAN BARANGARU, SL. TEL. 9827 / 9489	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SHAH ALAM, FOR KEMENTERIAN BURUH DAN TENAGA RAKYAT	OWNER: KEMENTERIAN BURUH DAN TENAGA RAKYAT WISMA MPE, JALAN RAJA CULAK, KUALA LUMPUR	TITLE: TECHNICAL TRAINING BLOCK (2) ELEVATION / SECTION SCALE: 1/100	NO. 1131 ARCHITECTURAL
	AS-BUILT DRAWING						



<p>CONSULTANT ARCHITECTS AND ENGINEERS</p> <p><b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b></p>	<p>APPROVED</p> <p>CHECKED</p> <p>DRAWN</p>	<p>ARCHITECT</p> <p>DHENSIAKITERO</p> <p>125A JALAN SS 21/37</p> <p>DAMANSARA UTAMA</p> <p>PETANG JAYA</p> <p>TEL 784228</p>	<p>CONSULTANT</p> <p>SHR 898 898</p> <p>COMPUTING ENGINEER</p> <p>SH JALAN PETANG JAYA</p> <p>SHAH ALAM</p> <p>TEL 784228</p>	<p>CENTRE FOR INSTRUCTOR &amp; ADVANCED SKILL TRAINING ON LOT 19, SHAH ALAM, FOR KEMENTERIAN BURUH DAN TENAGA RAKYAT MALAYSIA</p>	<p>PERUSAHAAN BANGUNAN DAN TENAGA RAKYAT WISMA SEPT, JALAN BAHU CHULAK, BUALA LAMPUR</p>	<p>TITLE: TECHNICAL TRAINING BLOCK (1) DETAIL SECTION 1</p> <p>SCALE: 1/50</p>	<p>NO. 1232</p> <p>ARCHITECTURAL</p>
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*Paul*  
AS-BUILT DRAWING

<p><b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b></p>	<p>APPROVED CHECKED DRAWN</p>	<p>DATE: 11/18/88</p> <p>PROJECT: 11/18/88</p> <p>NO. 11/18/88</p>	<p>CONSULTANT NO. 11/18/88</p> <p>NO. 11/18/88</p> <p>NO. 11/18/88</p> <p>NO. 11/18/88</p>	<p>NO. 11/18/88</p> <p>NO. 11/18/88</p> <p>NO. 11/18/88</p>	<p>TITLE: TECHNICAL TRAINING BLOCK (2) DETAIL PLAN / SECTION</p> <p>SCALE: 1/50</p>	<p>NO. 1259</p>
	<p>REKISTERED ARCHITECTS AND ENGINEERS DAN TEKNIK BANGUNAN MELAYU, JALAN KAJA CHUAN, KUALA LUMPUR</p>					

# THE CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING

ARCHITECTURAL WORK

STRUCTURAL WORK

ELECTRICAL WORK

MECHANICAL WORK

**1984**

CONSULTANT ARCHITECTS AND ENGINEERS




**NIHON ARCHITECTS' ENGINEERS  
& CONSULTANTS' INC.**

*Panda*  
AS BUILT DRAWING

ITEMS	FINISHES	TECHNICAL TRAINING BLOCK (3)	TECHNICAL TRAINING BLOCK (4)	DORMITORY (2)	DORMITORY (3)	GAS STORAGE	COVERED WALKWAY
ROOF	MAIN ROOF	METAL ROOF DECK	RIB HEIGHT OF A PROFILED SHEET				
			HIGH STRENGTH CORROSION	90%			
			RESISTANT FLUORACARBON PAINTED STEEL	20%			
			(SUNFLON)				
	WATER TANK SPACE						
	ACROSS BRIDGE ROOF	BITUMEN EMULSION WATER PROOFING					
	EAVE GUTTER	ORIENTAL METAL 10% + COLOURED CORRUGATE SHEET 08%					
EXTERNAL WALL	COLUMN & BEAM - HOLLOW BLOCK	SMOOTH FINISH					
			HIGH BUILD SAND TEXTURED COATING				
			(SOLVENT BASED BREATHING TYPE SURFACING)				
			TONE CRETE (FLUKURA KASEI)				
	WALL - GABLE WALL, SKIRT WALL UNDER WINDOW	ROUGH FINISH					
	SKIRTING BETWEEN GL & GF	GENERAL SKIRTING					
		COVERED WALKWAY SKIRTING	CEMENT SAND MORTAR 30%				
EXTERNAL IRONWORKERY	RAINWATER OUTLET	CAST IRON 150 AP					
	RAINWATER PIPE	HOT DIP GALV. PLUMBING STEEL PIPE 150 AP					
	LADDER	STEEL S.P					
EXTERNAL STAIRS & RAMPS	STAIR	CEMENT SAND MORTAR	STAINLESS STEEL NONSLIP				
	RAMP	HOUKIME NON SLIP FINISH					

43 ent  
AS-BUILT DRAWING

 <b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b>	APPROVED	43	04.5.	ARCHITECT	43	04.5.	CONSULTANT	43	04.5.	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SHAN ALAM, FOR KEMENTERIAN BURUH DAN TENAGA RAKYAT MALAYSIA	OFFICE AJEMENTERAN BURUH DAN TENAGA RAKYAT KUALA LUMPUR	TITLE	EXTERIOR FINISH SCHEDULE	NO.	1008
	CHECKED	43	04.5.	CONSULTANT	43	04.5.	CONSULTANT	43	04.5.	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SHAN ALAM, FOR KEMENTERIAN BURUH DAN TENAGA RAKYAT MALAYSIA	OFFICE AJEMENTERAN BURUH DAN TENAGA RAKYAT KUALA LUMPUR	SCALE		ARCHITECT	
	DRAWN	43	04.5.	CONSULTANT	43	04.5.	CONSULTANT	43	04.5.	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SHAN ALAM, FOR KEMENTERIAN BURUH DAN TENAGA RAKYAT MALAYSIA	OFFICE AJEMENTERAN BURUH DAN TENAGA RAKYAT KUALA LUMPUR				

GROUP FLOOR	ROOM	FINISH	ITEM NO	FLOOR								SKIRTING				WALL (INCLUDING COLUMN)					CEILING (INCLUDING GIRDER)					NOTES					
				1	2	3	4	5	6	7	8	1	2	3	4	1	2	3	4	5	1	2	3	4	5	CEILING BORDER	CURTAIN RAIL	BLIND BOX	BUIL-IN FIXTURE	OTHERS	DS NO
				IN-SITU TERRAZZO	MONOLITHIC CEMENT-SAND PAVING	CEMENT-SAND PAVING	WATERPROOFED CEMENT SAND PAVING	VINYL ASBESTOS TILE	CARPET	QUARRY TILE	MOSAIC TILES	CEMENT-SAND MORTAR	HARD WOOD SKIRTING	VINYL ASBESTOS TILE	BORDER TERRAZZO BLOCK	IN SITU CONCRETE	CEMENT-SAND MORTAR	SEM-PORELAIN TILE	HOLLOW CEMENT BLOCK	ASBESTOS CEMENT SHEET	GYPSUM BOARD 1/2"	GLASS WOOL 25% SOFFIT	CONCRETE SLAB SOFFIT	ASBESTOS CEMENT SHEET	ACOUSTIC MINERAL WOOL TILES	GLASS WOOL-WOODMIDIF SHEET + WIRE MESH	ROOF DECK SOFFIT				
GROUND FLOOR	NEAVY SHOP DEPY BUILDING	4050 ±0 (-10)		F.H																											
	GROUP RM (1)	4110 ±0 (-12)																													
	GROUP RM (2,3)	4110 ±0 (-12)																													
	EXPERTS HEAD OF DEPT OFFICE FOR INSTRUCTORS	3200 ±0 (-12)																											KITCHENETTE CUP BOARD		
	LAV. & SHOWER (M)	4110-4160 -120-200 (-150X-230)																													
	LAV. (F)	4110-4160 -120-200 (-150X-230)																													
	CASTING	4050 ±0 (-10)		F.H																											
	LABORATORY	3200 ±0 (-12)																													
	CONSTANT TEMPERATURE RM	4110-2400 ±0 (-12)																												KITCHENETTE	
	UTILITY (2)	4110 ±0 (-10)																													
	TOOL RM (1)	4110 ±0 (-10)																												FIRE SHUTTER COUNTER	
	TOOL RM (2)	4110 ±0 (-10)																												FIRE SHUTTER COUNTER	
	TERRACE	4110 -70~100 (-80~110)																													
	COVERED WALKWAY	2375-3318 -70~100 (-80~110)																													
	FIRST FLOOR	INSTRUMENT & AUTOMATIC CONTROL & ELECTRONIC DEPT	3100 ±0 (-30)																												
HEAD OF DEPT EXPERTS OFFICE FOR INSTRUCTORS		3100 ±0 (-30)																												KITCHENETTE CUP BOARD	
GROUP RM		3100 ±0 (-30)																													
ELECTRICAL DEPT		3100 ±0 (-30)																												SLOPE STAIRCASE	
CORRIDOR		3100 ±0 (-30)																													
LABORATORY		2500 ±0 (-30)																													
MICRO COMPUTER RM		2500 ±0 (-30)																													
TOOL INSTRUMENT		3010 ±0 (-30)																													
STORAGE		3010 ±0 (-30)		F.H																											

**ABBREVIATIONS**

- AP : ACRYL ENAMEL PAINT
- EP : EMULSION PAINT
- VP : VINYL RESIN PAINT
- SP : OIL-MODIFIED ALKYD PAINT
- CL : CLEAR VARNISH (OS+POLYURETHAN)
- OS : OIL STAIN
- OP : OIL PAINT

- C : CONCRETE
- M : MORTAL
- B : BRICK
- TF : TIMBER FRAME
- S : STIPPLE
- In : INSULATION
- FH : FLOOR HARDNER

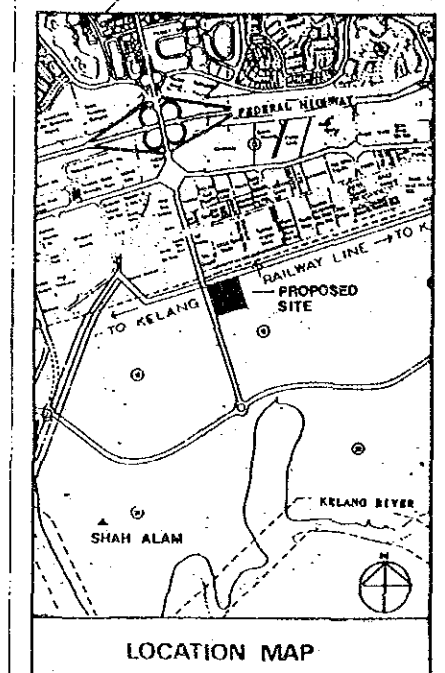
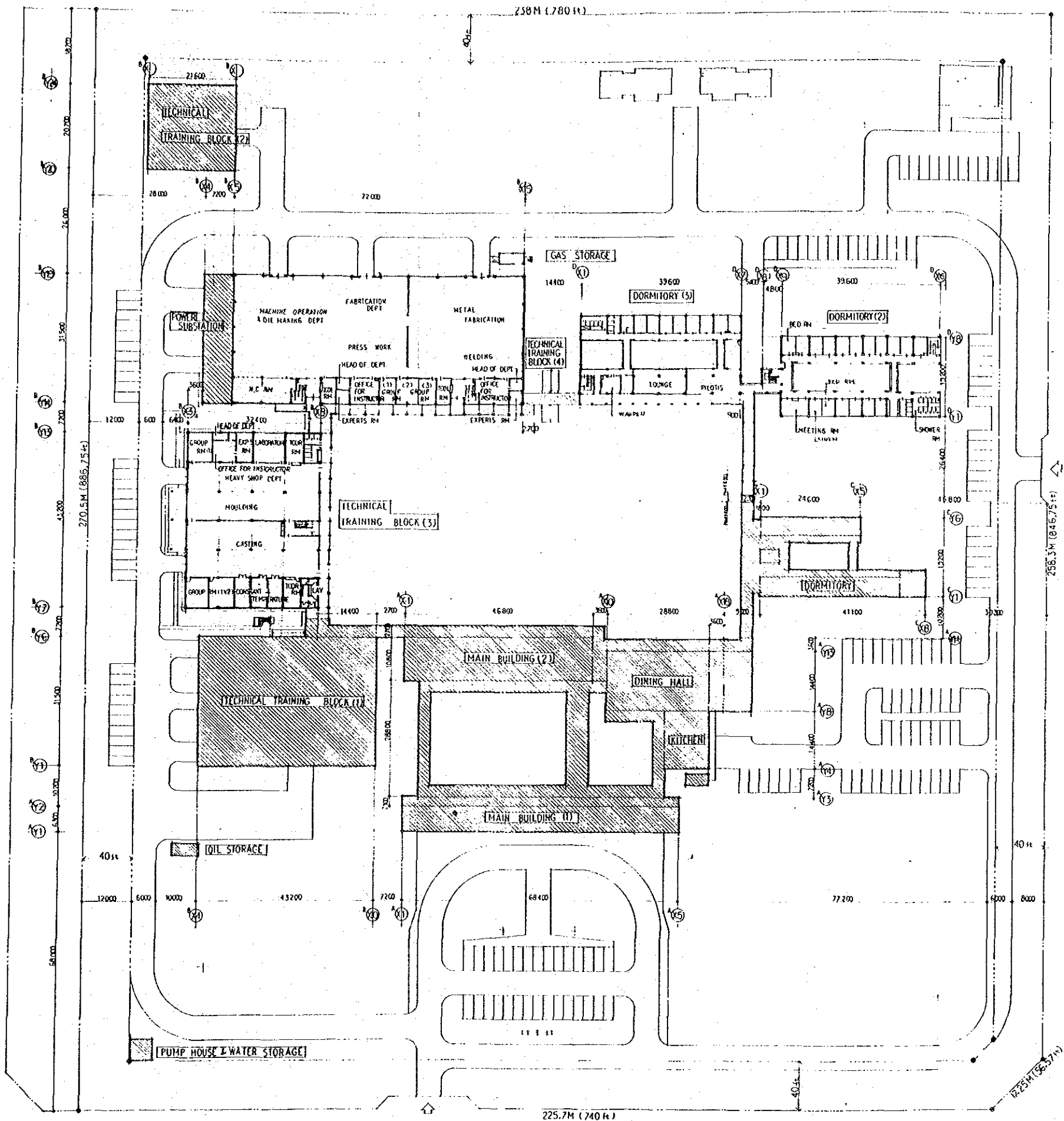
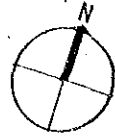
- BE : BITUMEN EMULSIONS WATERPROOFING
- PB : PLASTER BOARD
- IS : INORGANIC SPRAY PAINT (VERMICULITE SPRAY)

*1/3 scale*  
AS-BUILT DRAWING

<b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b>	APPROVED <i>[Signature]</i> <i>[Date]</i>	CLIENT <b>DIPTERANGKAP BANGUNAN DAN PERENCANAAN DANARANGSA UTAMA PETAJING JAYA TEL. 784228</b>	DESIGNER MR. <i>[Name]</i>	PROJECT <b>INSTRUKTOR &amp; ADVANCED LABORATORY ON LOT 19, KEMENTERIAN PERENCANAAN DAN BANGUNAN RAKYAT JILANG DAN TENAGA RAKYAT NEGARA</b>	OWNER <b>KEMENTERIAN BANGUNAN DAN PERENCANAAN RAKYAT JILANG DAN TENAGA RAKYAT JILANG LUMPUR</b>	TITLE <b>INTERIOR FINISH SCHEDULE 1</b>	NO. 1009
	CHECKED <i>[Signature]</i> <i>[Date]</i>					SCALE	ARCHITECTURAL
	DRAWN <i>[Signature]</i> <i>[Date]</i>						







*Free de*  
**AS-BUILT DRAWING**

NO 1012  
ARCHITECTURAL

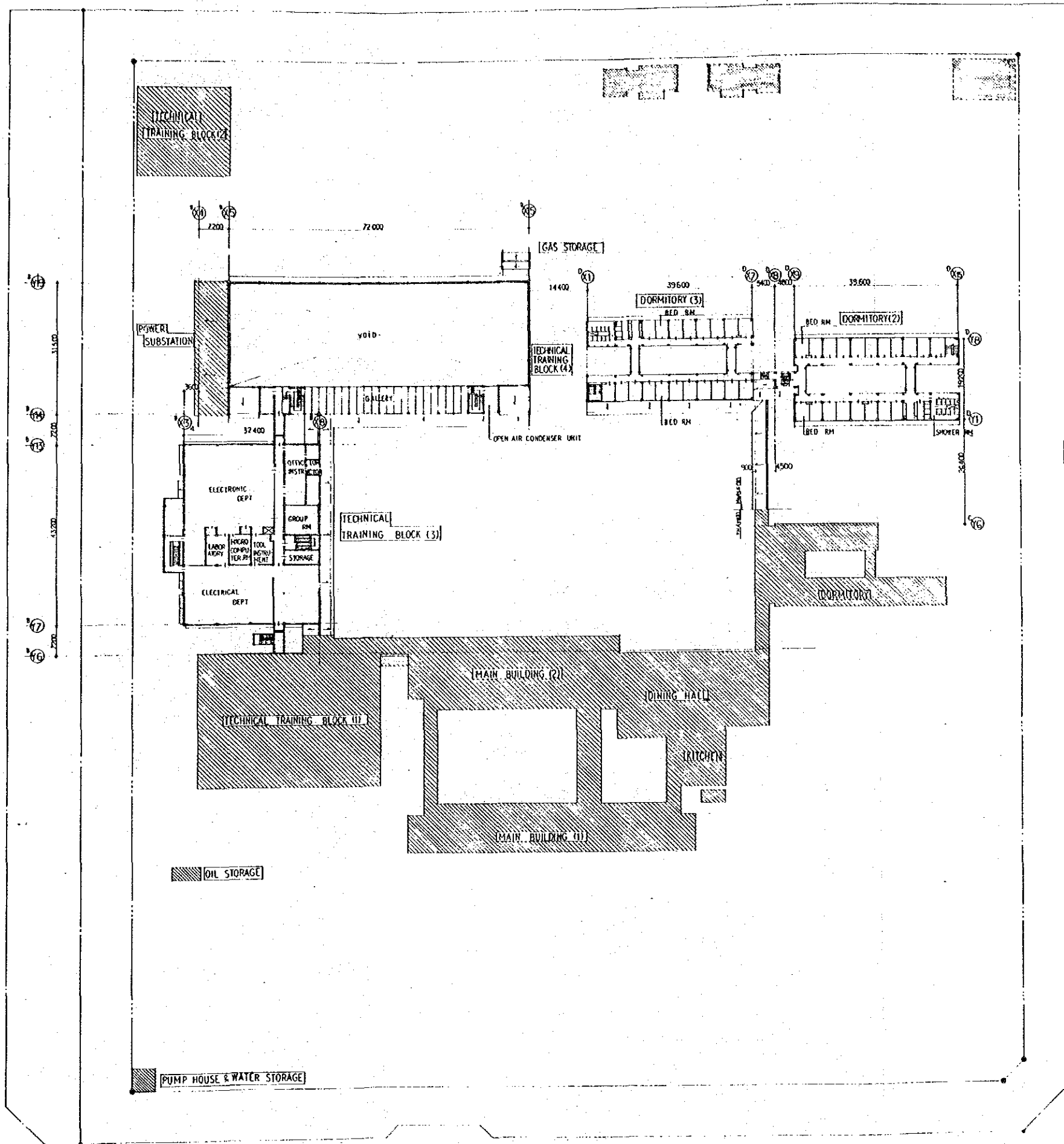
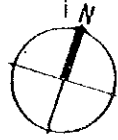
TITLE SITE PLAN - GROUND FLOOR  
SCALE 1/500

DESIGNED BY: KENYON BUNYI  
DRAWN BY: KENYON BUNYI  
CHECKED BY: KENYON BUNYI  
DATE: 10/12/01

APPROVED BY: KENYON BUNYI  
DATE: 10/12/01

**NIHON ARCHITECTS, ENGINEERS & CONSULTANTS, INC.**

CORPORATE OFFICE: SUITE 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

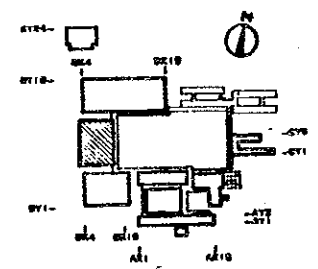
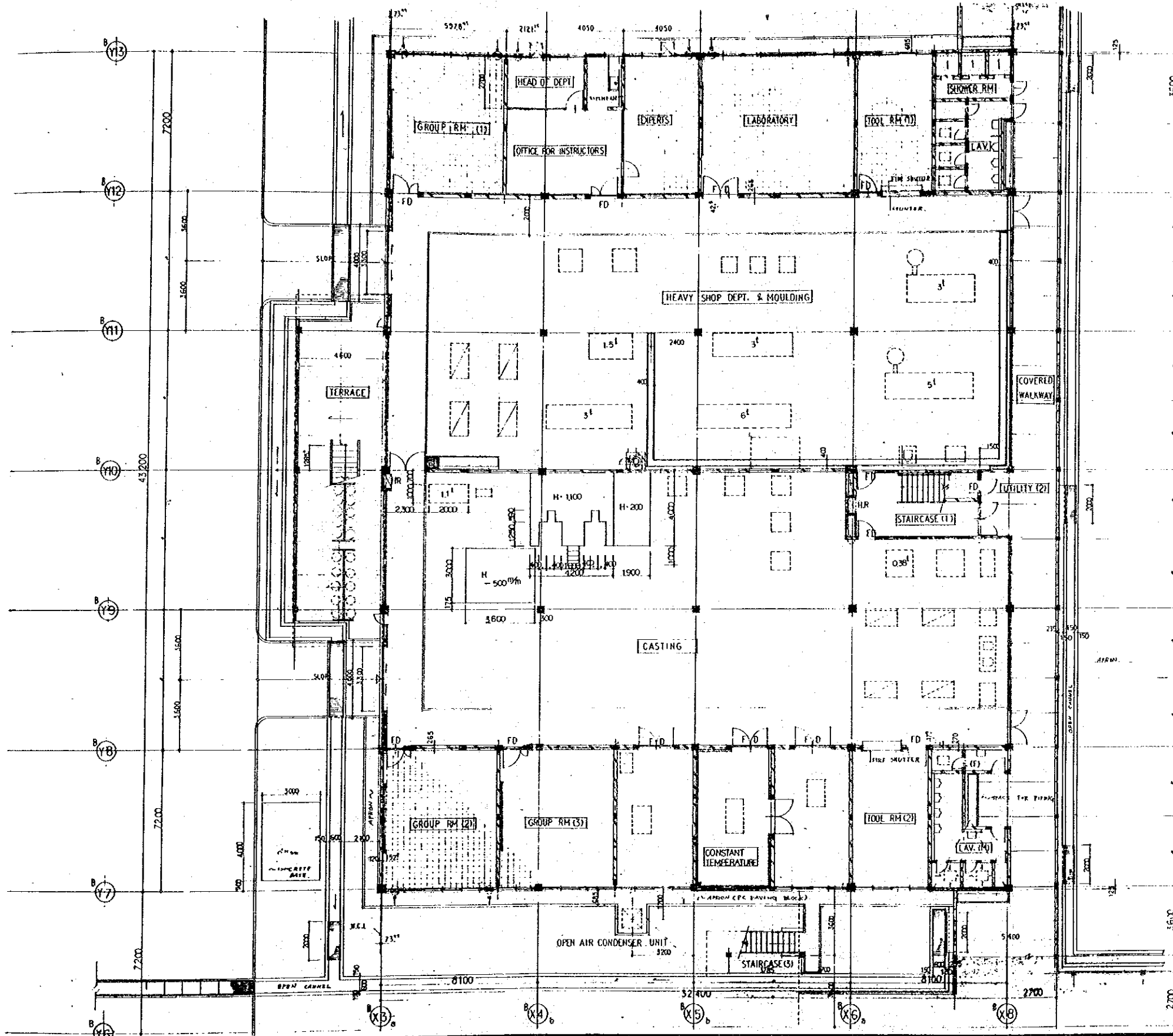


*Y. Bond*  
AS-BUILT DRAWING

<b>NINON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b> <small>CONSULTANT ARCHITECTS AND ENGINEERS</small> 100-10, JALAN SS 21/37 PETALING JAYA SELANGOR MALAYSIA TEL. 744228	APPROVED: <i>[Signature]</i> 24.3 CHECKED: <i>[Signature]</i> 24.3 DRAWN: <i>[Signature]</i> 24.3	CONSULTANT <small>FOR THE CLIENT'S USE ONLY</small> ARCHITECTS, ENGINEERS AND CONSULTANTS, INC. 100-10, JALAN SS 21/37 PETALING JAYA SELANGOR MALAYSIA TEL. 744228
CONTRACT NO. 94/19 PROJECT NO. 94/19 DRAWING NO. 94/19	TITLE SITE PLAN - FIRST FLOOR SCALE 1/500	PROJECT NO. 1013 ARCHITECTURAL

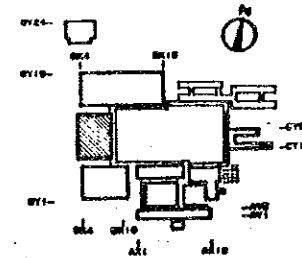
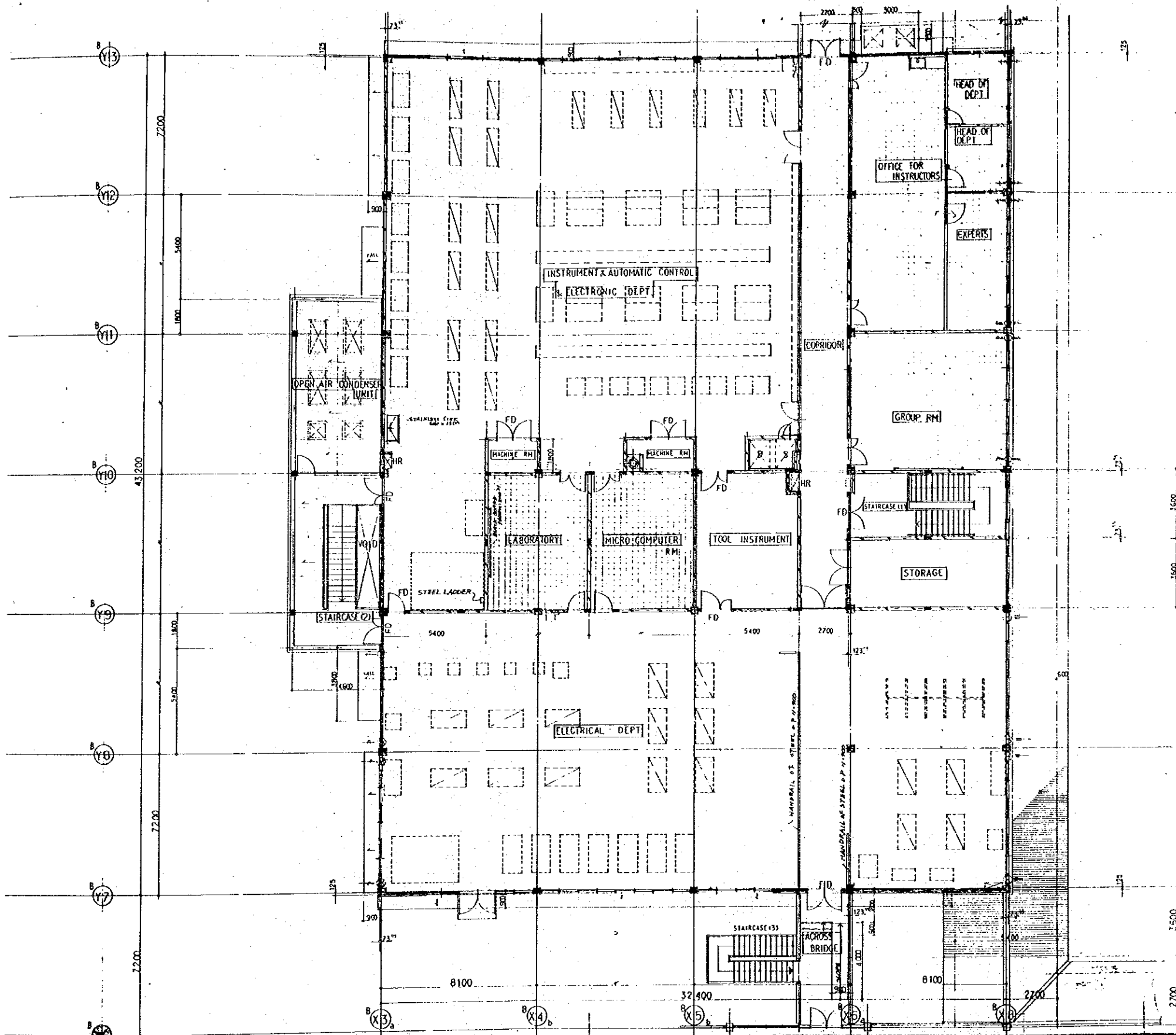
CONTRACTOR: BUNDAH BANGSA BANGSA  
 NO. 10, JALAN BANGSA BANGSA  
 BUKIT BANGSA, SEREMBAN  
 NEGERI SEMBILAN  
 MALAYSIA





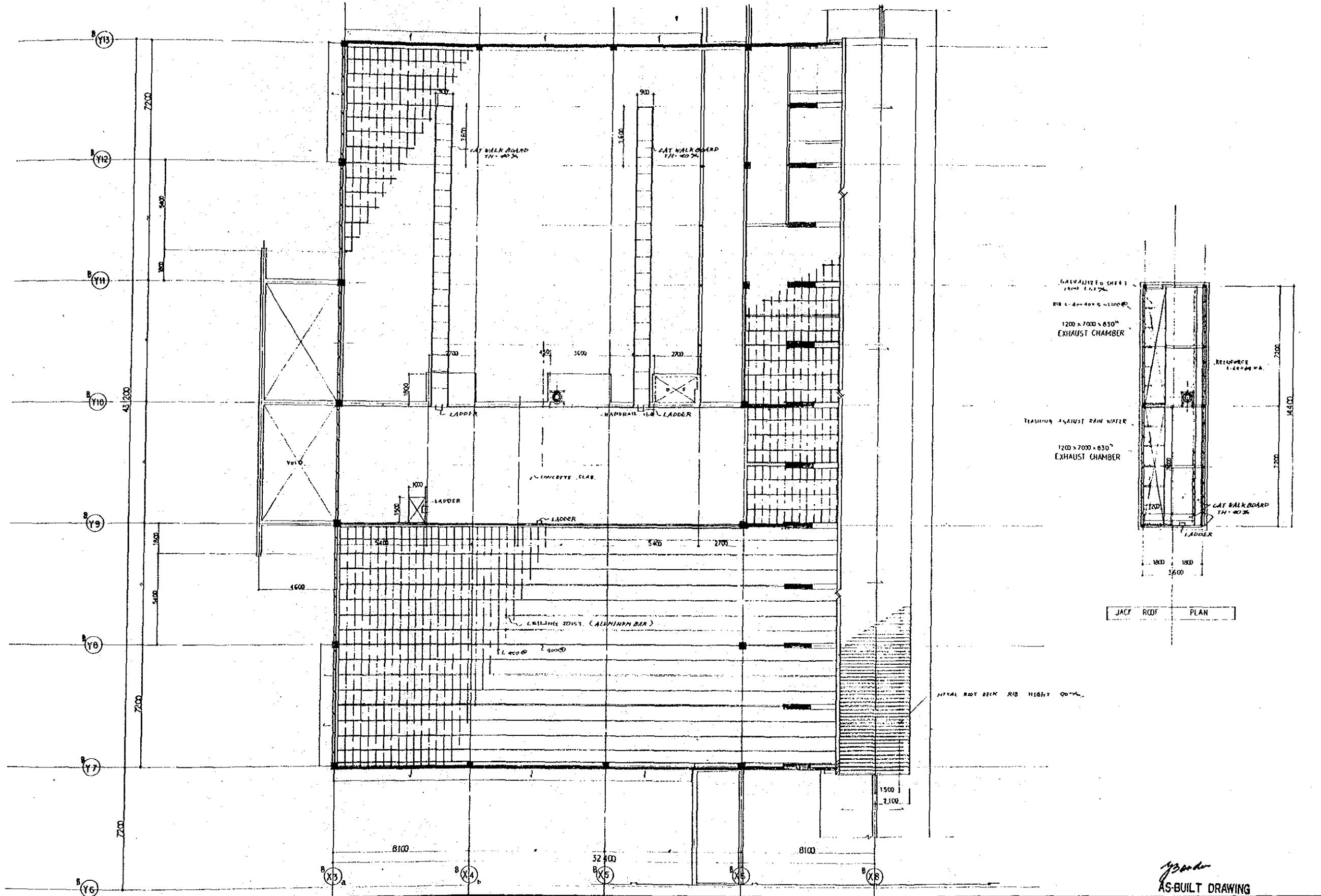
*As built*  
AS BUILT DRAWING

 <b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b> <small>CONSULTANT ARCHITECTS AND ENGINEERS</small>	APPROVED <i>[Signature]</i> CHECKED <i>[Signature]</i> DRAWN <i>[Signature]</i>	ARCHITECT DIBENSAKANTERO 1254 JALAN SS 21/87 DANARISARA UTAMA PEJANG JAYA TEL. 786228	CURATOR BPP BUKU BARU KOMPLEKS LINDANGAN 10 JALAN BERTAPAH NEGARA DAMAIKILA, KL. TEL. 603774488	OFFICE KEMENTERIAN BURUH DAN TENAGA RAKYAT WYAMA 10/1, LALAH BANG CUBERAN, KUALA LUMPUR	TITLE <b>TECHNICAL TRAINING BLOCK (3)</b> <b>GROUND FLOOR PLAN</b>	NO <b>1015</b>
	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, BUKIT MELAK, FOR KEMENTERIAN BURUH DAN TENAGA RAKYAT (AYSA)				SCALE <b>1/100</b>	ARCHITECTURAL



*Boon*  
S-BUILT DRAWING

 <b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b>	APPROVED <i>43</i> CHECKED <i>43</i> DRAWN <i>on</i>	ARCHITECT DHEI SAARKITIZ 12-A JALAN SS 9/37 PUS. SUNGAI UTAMA PETAIANG JAYA TEL. 784238	CONSULTANT SHIP SHI SHI KONSTRUKSI ENGINEERING 24 JALAN BETALEPA MEDAN BANGKALAN, SL. TEL. 8847/8488	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SHAH ALAM, FOR KEMENTERIAN BURUH DAN TENAGA HAKYAT MALAYSIA	PERHE- KEMENTERIAN BURUH DAN TENAGA BAKYAT WISMA MPT, JALAN BAJA CILAKA, KUALA LUMPUR	TITLE <b>TECHNICAL TRAINING BLOCK (3)          FIRST FLOOR PLAN</b>	NO <b>1016</b>
	SCALE $\frac{1}{100}$					ARCHITECTURAL	



**NIHON ARCHITECTS, ENGINEERS & CONSULTANTS, INC.**

APPROVED: *[Signature]*  
 CHECKED: *[Signature]*  
 DRAWN: *[Signature]*

ARCHITECT  
 DIRECTOR (REGISTERED)  
 125, JALAN SS 21/37  
 WISMA NIHON UTAMA  
 PETANG JAYA  
 TEL: 784 222

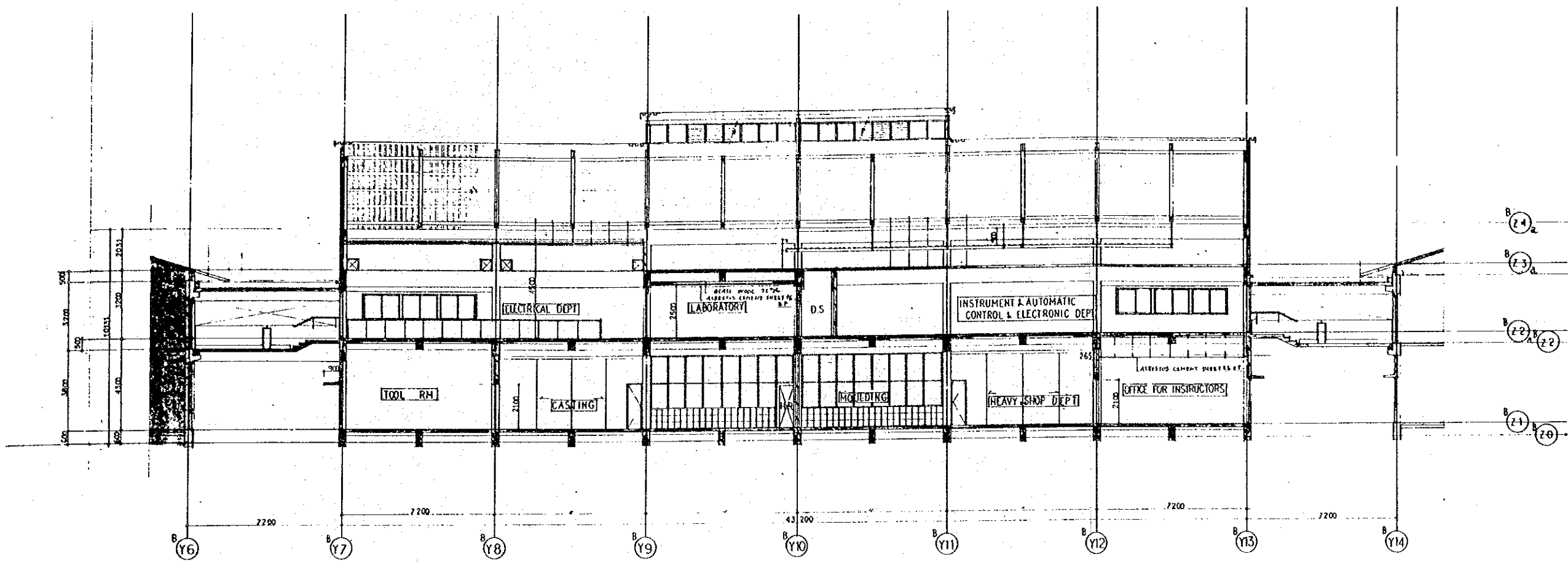
CONSULTANT  
 100, BUKIT MELAKA  
 CONSULTING ENGINEER  
 10, JALAN SELAYANG  
 WISMA NIHON UTAMA  
 PETANG JAYA  
 TEL: 9517/9527

ENGINEER FOR INSTRUCTOR & ADVANCED  
 10, JALAN SELAYANG  
 WISMA NIHON UTAMA  
 PETANG JAYA  
 MALAYSIA

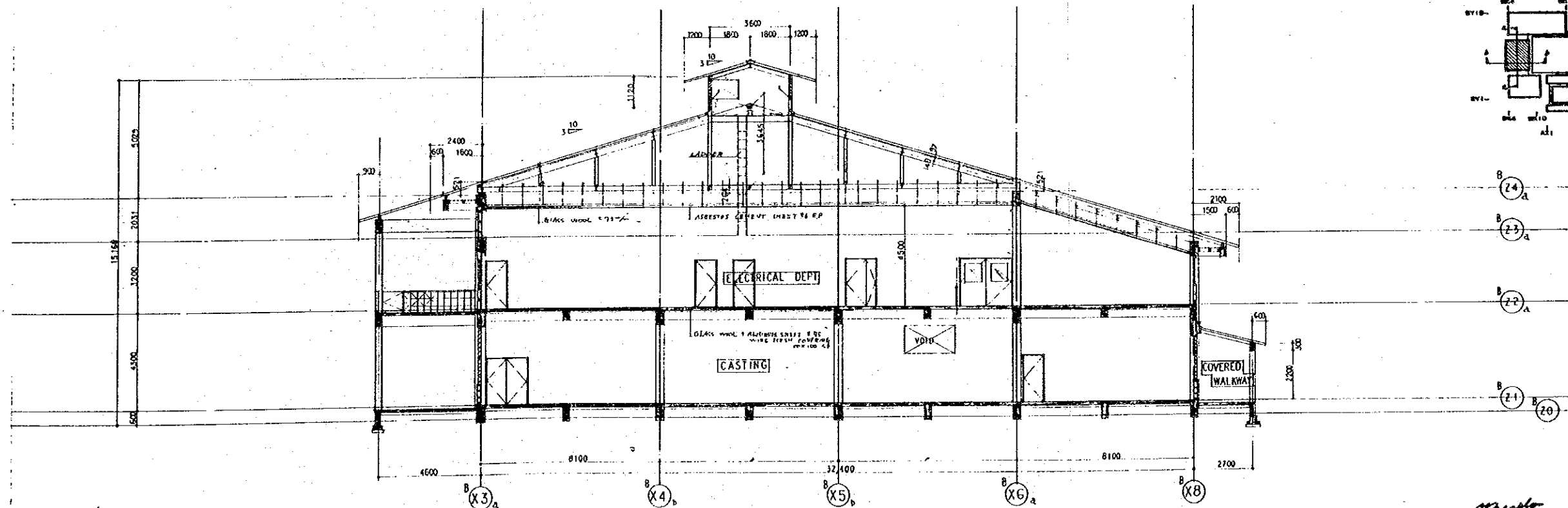
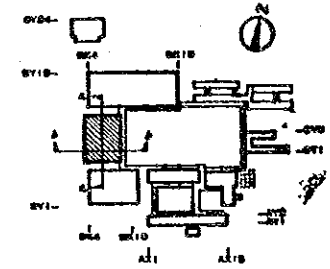
ENGINEER FOR INSTRUCTOR & ADVANCED  
 10, JALAN SELAYANG  
 WISMA NIHON UTAMA  
 PETANG JAYA  
 MALAYSIA

TITLE: TECHNICAL TRAINING BLOCK (3)  
 CAT WALK PLAN  
 SCALE: 1/100

NO: 1017  
 ARCHITECTURAL



SECTION a - a



SECTION b - b

*Handwritten signature*  
AS BUILT DRAWING

	CONSULTANT ARCHITECTS AND ENGINEERS <b>NIHON ARCHITECTS, ENGINEERS &amp; CONSULTANTS, INC.</b>		ARCHITECT DIMENSAARKITERI 222A JALAN SS 81/87 DAMANSARA UTAMA PETALING JAYA TEL. 764828	CONSULTANT ENJENIR DAN KONSULTAN KEJURUTERAAN 54 JALAN SETIAPOKA MEDAN BARU/BAHARU TEL. 7647/6488	CENTRE FOR INSTRUCTOR & ADVANCED SKILL TRAINING ON LOT 19, SIAH ALAM, FOR KEMENTERIAN BURUH DAN TENAGA RAKYAT MALAYSIA	OTHER KEMENTERIAN BURUH DAN TENAGA RAKYAT YONGA HEP, JALAN BANGA GELAK, KUALA LUMPUR	TITLE <b>TECHNICAL TRAINING BLOCK (3)          SECTION</b>	NO 1018
	APPROVED <i>Handwritten initials</i>	CHECKED <i>Handwritten initials</i>	DRAWN <i>Handwritten initials</i>	SCALE 1/100	ARCHITECTURAL			
	84.1 84.3 84.3	84.1 84.3 84.3	84.1 84.3 84.3	84.1 84.3 84.3	84.1 84.3 84.3			