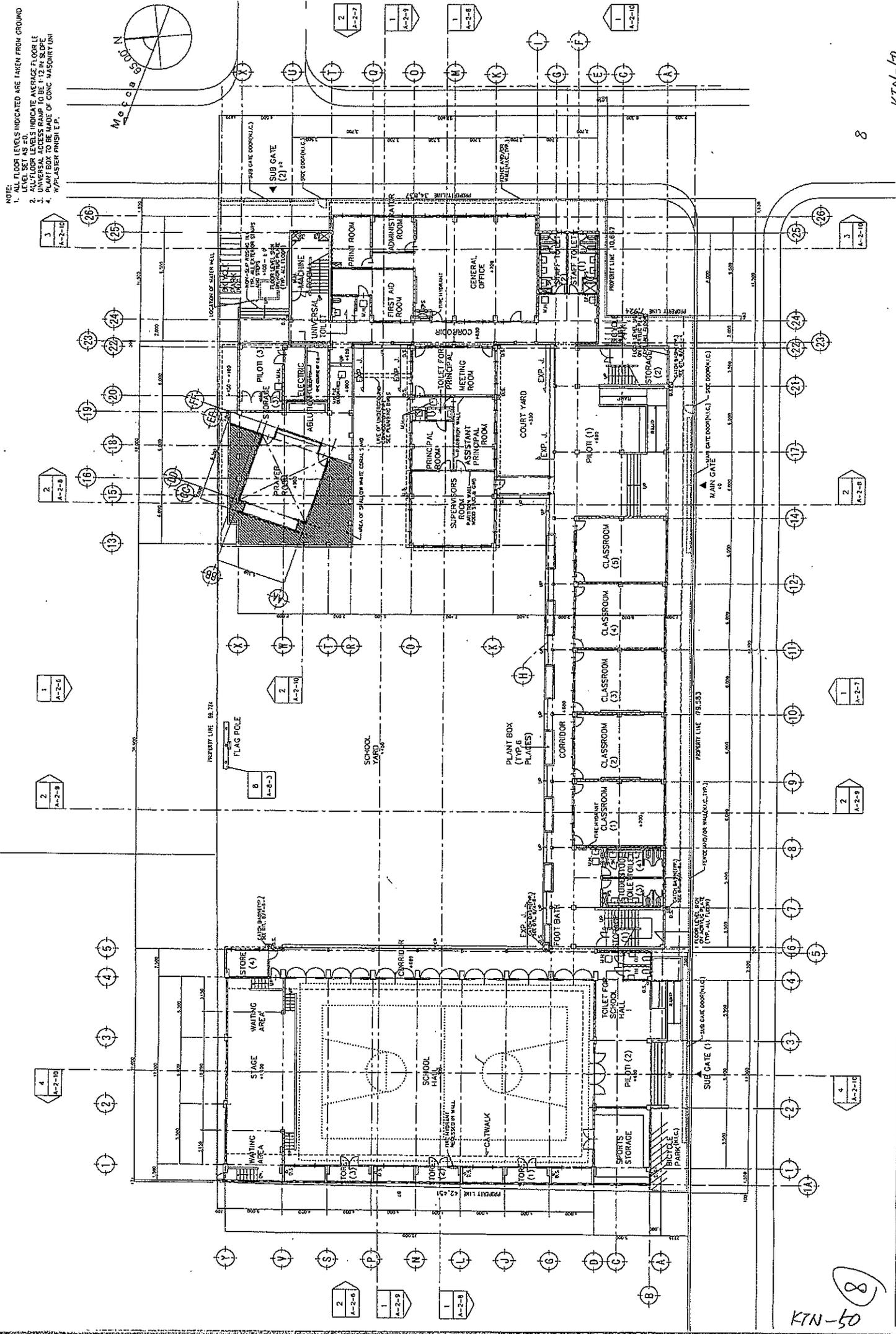


No. 8 Thaajuddeen School

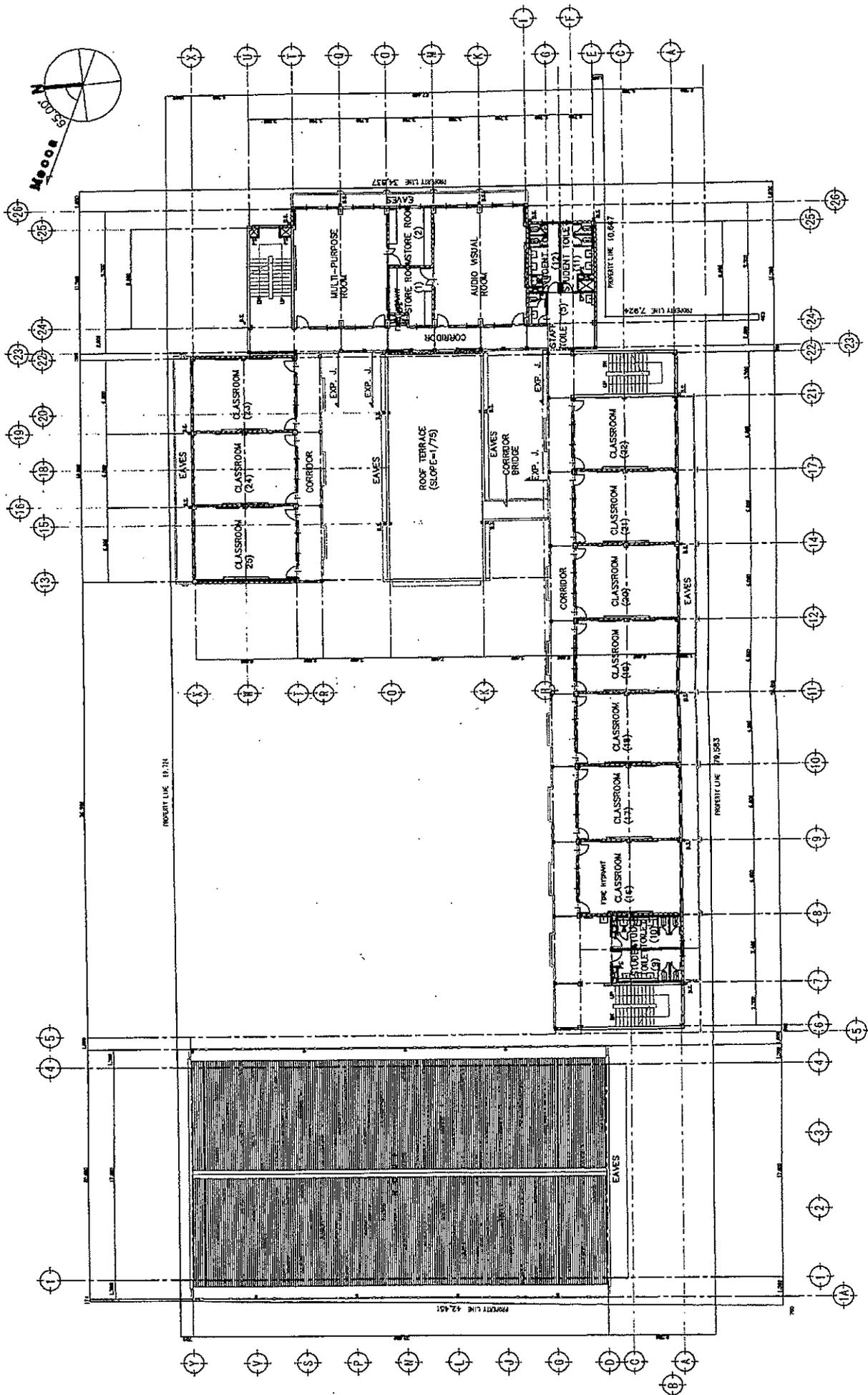
As-Build DWG.

56



- NOTE: FLOOR LEVELS INDICATED ARE TAKEN FROM GROUND
 1. ALL FLOOR LEVELS ARE FINISH FLOOR LEVELS
 2. ALL FLOOR LEVELS INDICATE AVERAGE FLOOR LEVEL
 3. UNIVERSAL ACCESS RAMP TO BE 1:12 IN SLOPE
 4. PLANT BOX TO BE MADE OF CONC MASONRY UNIT
 5. W/FLASER FINISH E.P.

8

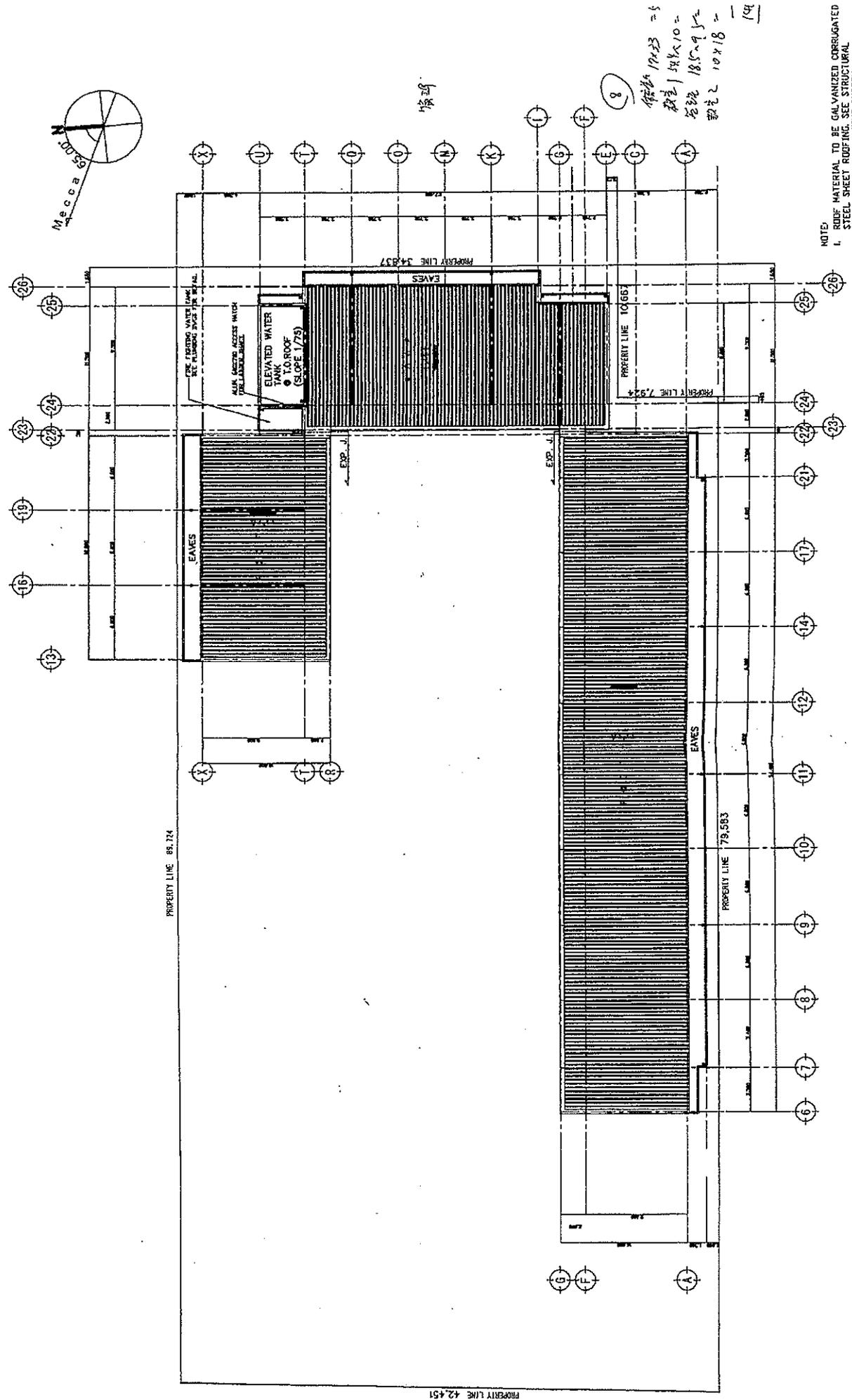
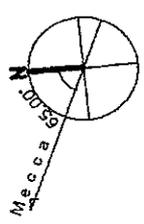


8

KTN-51

KTN-51

66



19223 = 5
 18210 =
 18509 =
 10418 =
 194

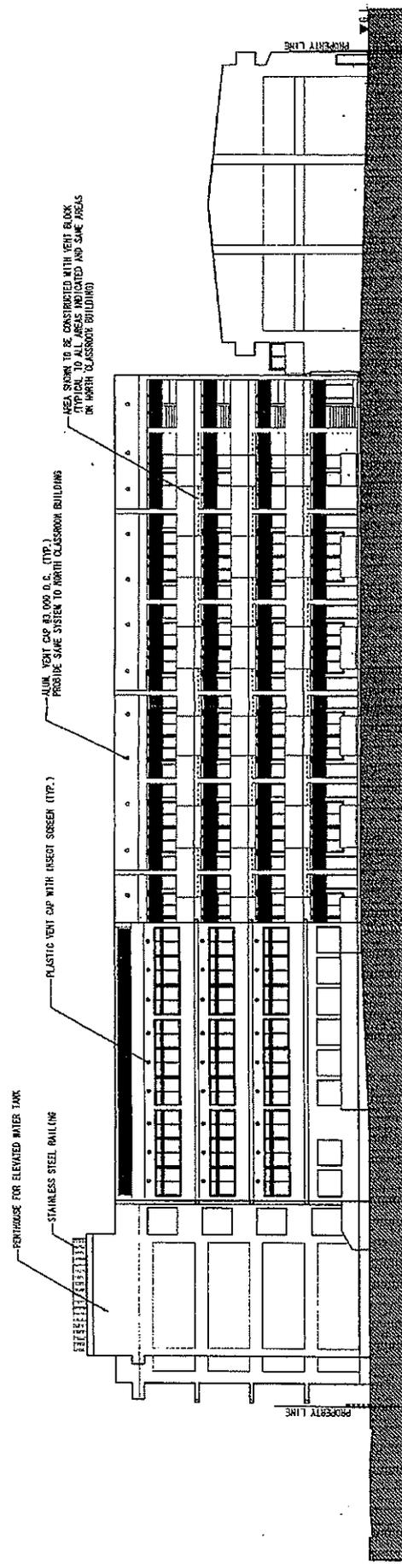
NOTE:
 1. ROOF MATERIAL TO BE GALVANIZED CORRUGATED STEEL SHEET ROOFING. SEE STRUCTURAL DRAWING FOR SUPPORTING SYSTEM.
 2. SEE PLUMBING DRAWING FOR ELEVATED WATER TANK DETAIL.

8

KTN-52

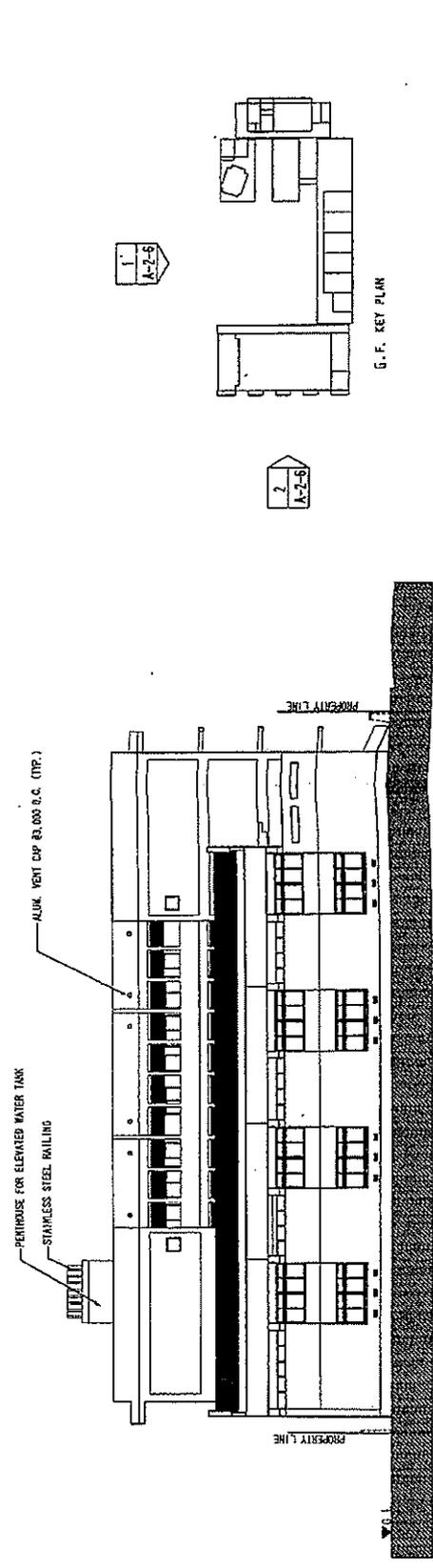
KTN-52

66



1 NORTH ELEVATION

1
A-2-6

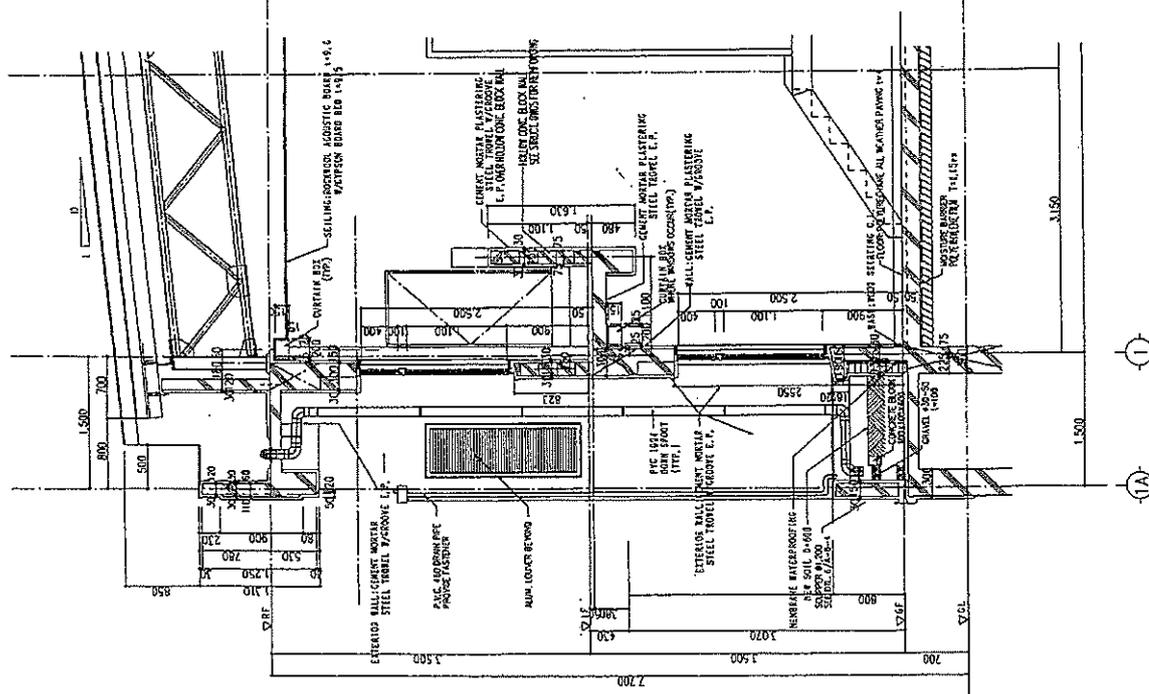


2 WEST ELEVATION

2
A-2-6

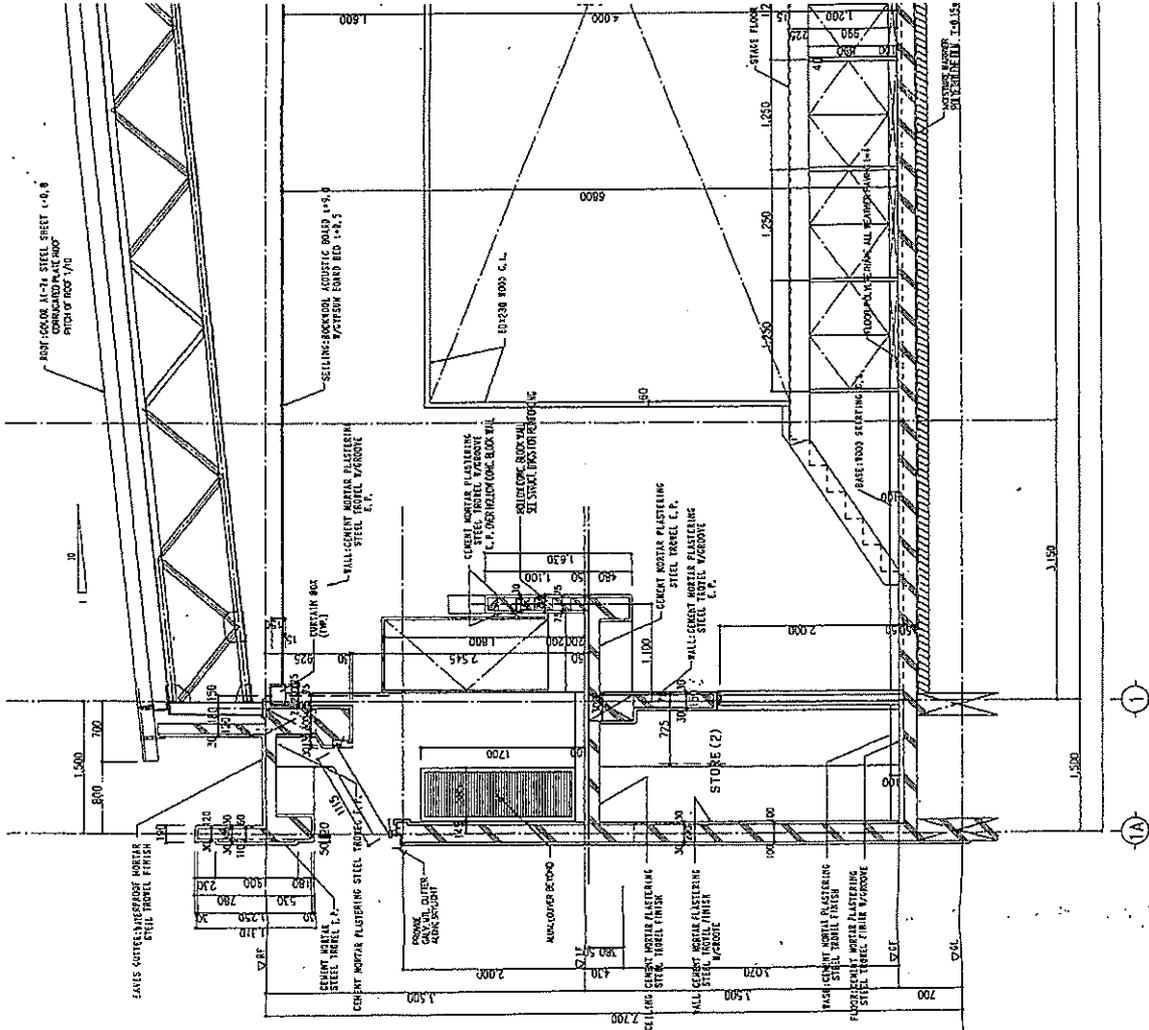
8

K7N-54



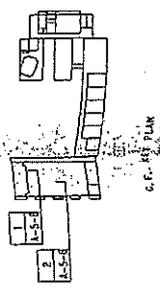
SCHOOL HALL BUILDING
DETAIL SECTION

1
1-5-5



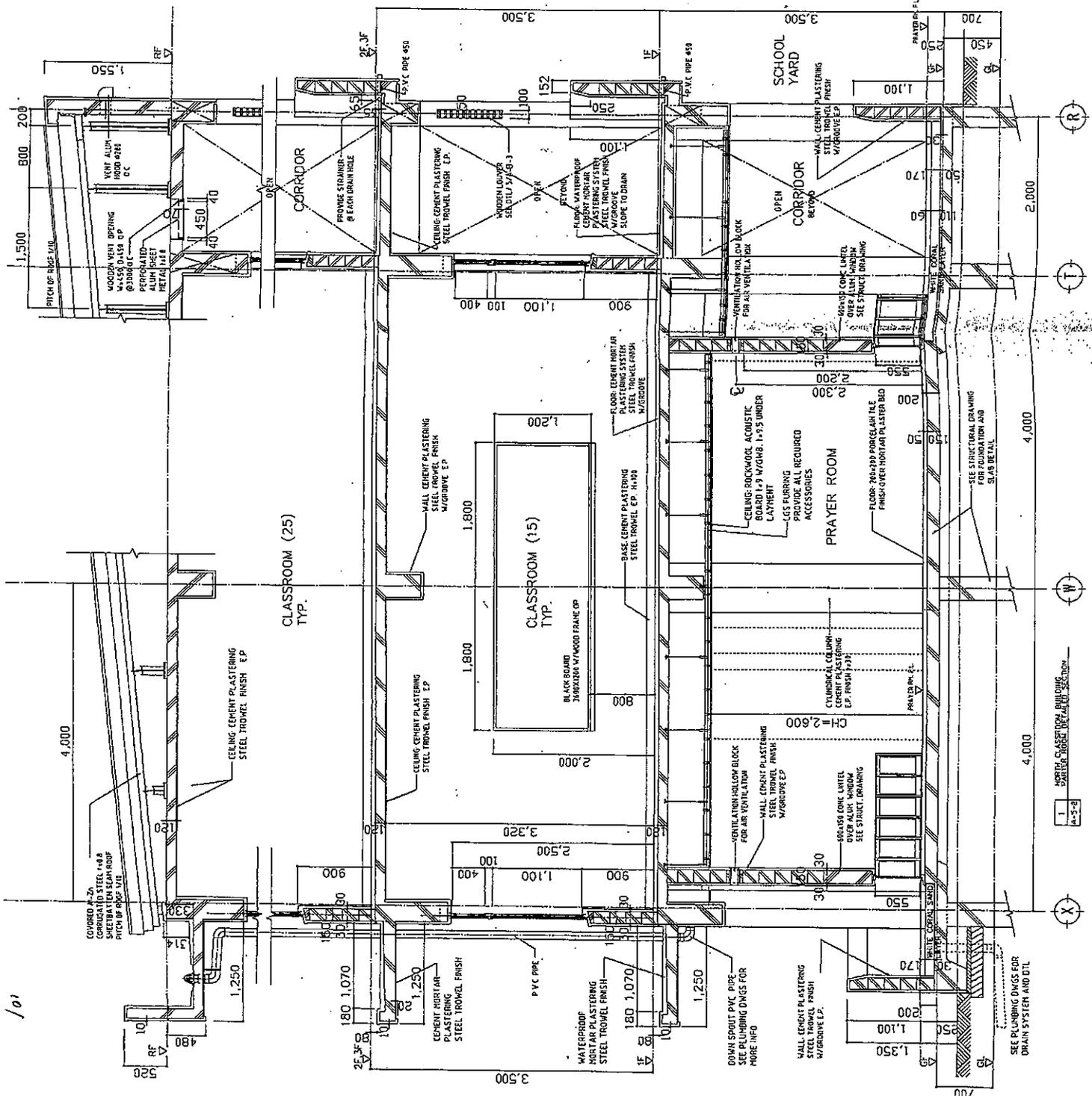
SCHOOL HALL BUILDING
DETAIL SECTION

2
2-5-5

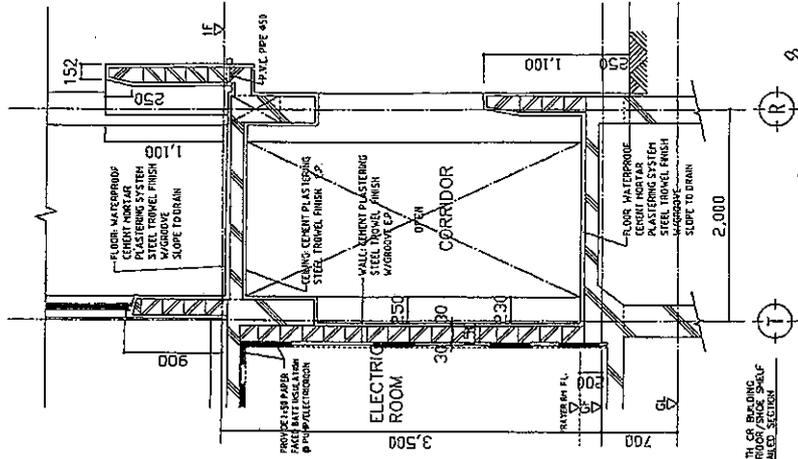
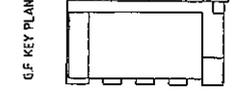


8
KTN-55

KTN-55



101



2
A-2-B
NORTH COR. BRACING
CORRIDOR/SIDE SHAFT
DETAILED SECTION

1
A-2-B
NORTH CLASSROOM BRACING
CORRIDOR/SIDE SHAFT
DETAILED SECTION

1
A-2-B
NORTH CLASSROOM BRACING
CORRIDOR/SIDE SHAFT
DETAILED SECTION

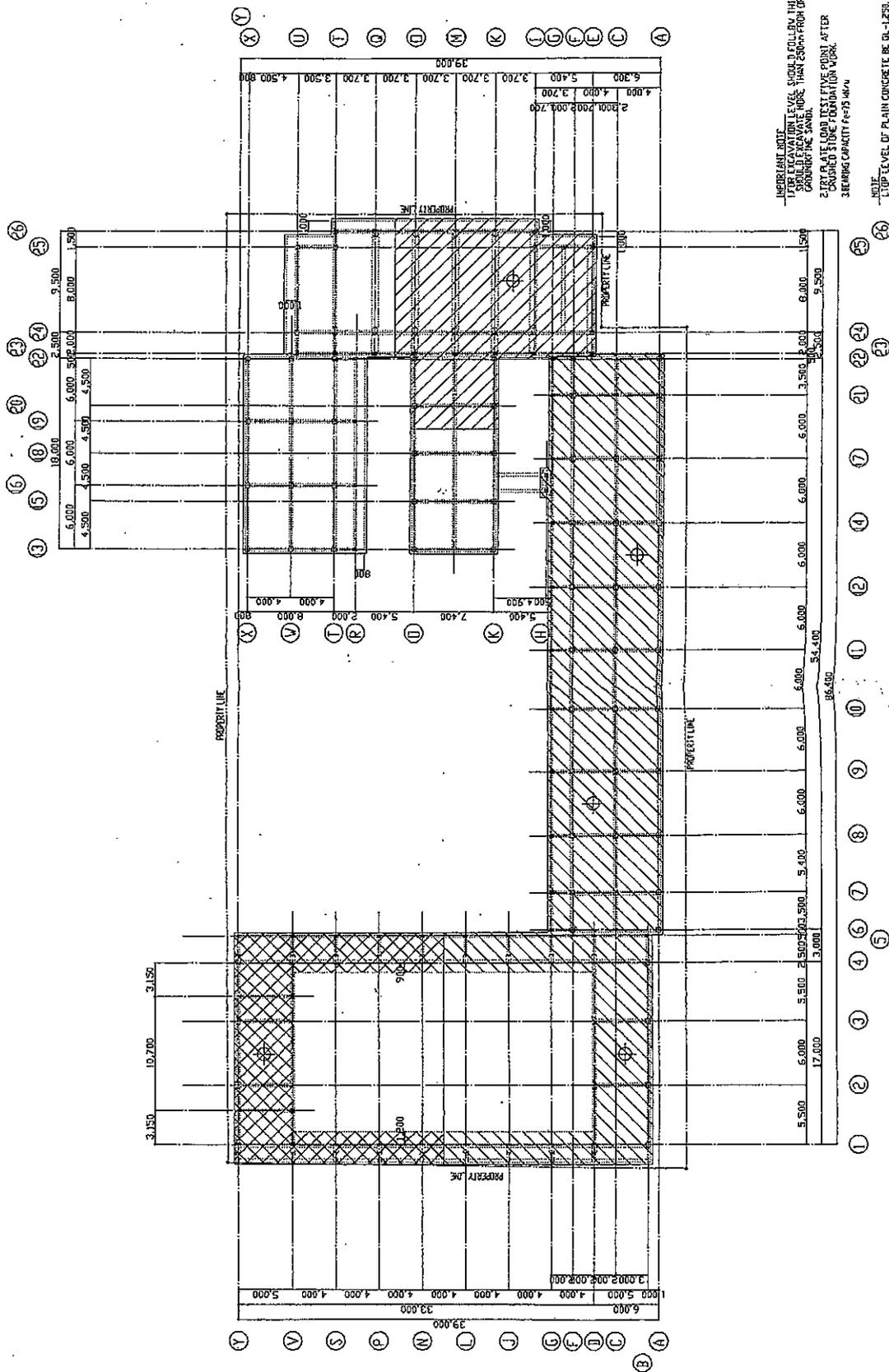
1
A-2-B
NORTH CLASSROOM BRACING
CORRIDOR/SIDE SHAFT
DETAILED SECTION

1
A-2-B
NORTH CLASSROOM BRACING
CORRIDOR/SIDE SHAFT
DETAILED SECTION

KTN-56

KTN-56

501



IMPORTANT NOTE:
 1. EXCAVATION BOTTOM LEVELS SHOWN ON THIS DRAWING LEVEL AND SHALL BE EXCAVATED FROM ORIGINAL GRADE OF THE SAND.
 2. 210 PLATE LOAD TEST FIVE POINT AFTER CRUSHED STONE FOUNDATION WORK.
 BEARING CAPACITY TESTS 4000.

NOTE:
 1. TOP LEVEL OF PLAIN CONCRETE BE DL-1.250.

- LEGEND
- EXCAVATION BOTTOM LEVEL
 - CRUSHED STONE UNDER FOUNDATION
 - 210 PLATE LOAD TEST FIVE POINT AFTER CRUSHED STONE FOUNDATION WORK
 - BEARING CAPACITY TESTS 4000
 - PLATE LOAD TEST POINT

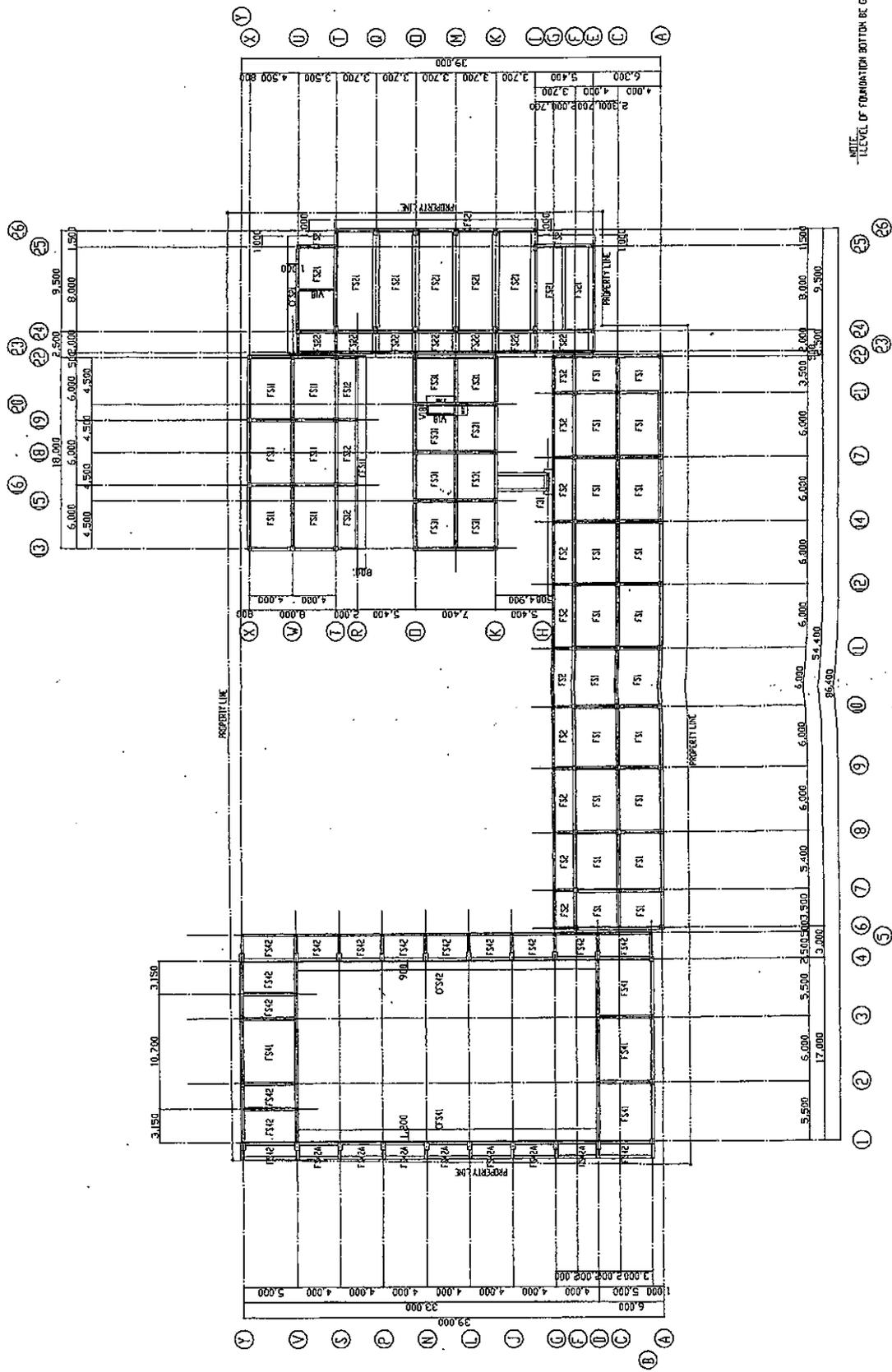
CRUSHED STONE FOUNDATION WORK
 UNDER FOUNDATION PLAN



KTN-58

	MOHRI ARCHITECT & ASSOCIATES, INC. 2-4 THUNDER CREEK RD. WILSON, WYOM.		AS BUILT DRAWING		PROJECT NAME THE PROJECT FOR RECONSTRUCTION OF THE THIRD PRIMARY SCHOOL IN WALE PARK OFFICE WILSON		DRAWING TITLE CRUSHED STONE FOUNDATION WORK UNDER FOUNDATION PLAN		SCALE 1/8" = 1'-0"		DATE May 2008		I.C.L. S-4	
	NO.		PROJECT NO.		KTN-58		8		8		8		8	

601



NOTE: LEVEL OF FOUNDATION BOTTOM BE CL-1.25M

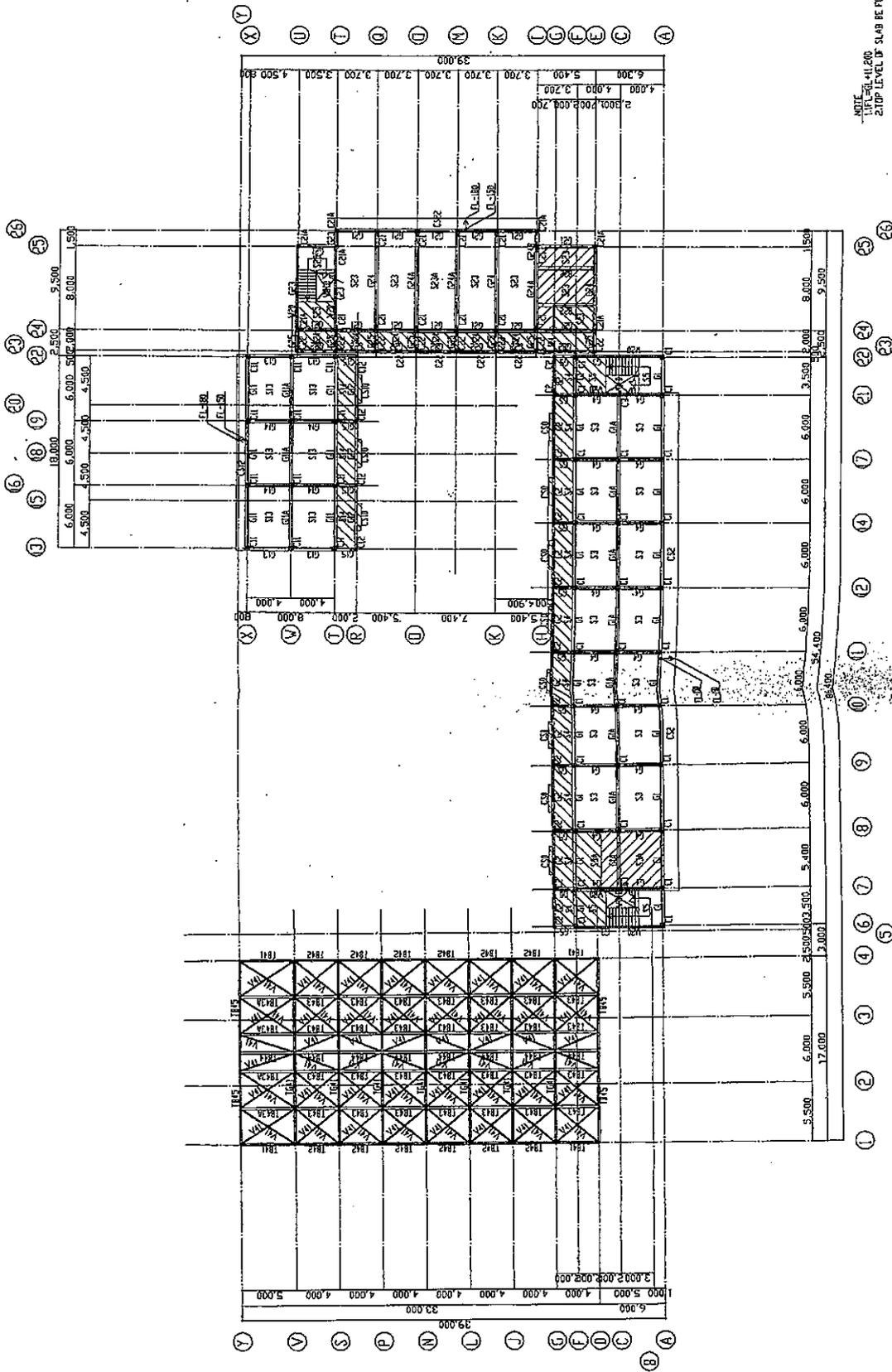
FOUNDATION PLAN

 MOHRI ARCHITECT & ASSOCIATES, INC. 2-10 THE RD, DUBLIN, OHIO, U.S.A.	AS BUILT DRAWING	PROJECT NAME THE PROJECT FOR RECONSTRUCTION OF THE THIRD PRIMARY SCHOOL IN PALU IN REDDYPALU	DRAWING TITLE FOUNDATION PLAN	SCALE 1:200	DATE DAY MONTH YEAR	NO. S-5
	147N-59					

8

147N-59

501



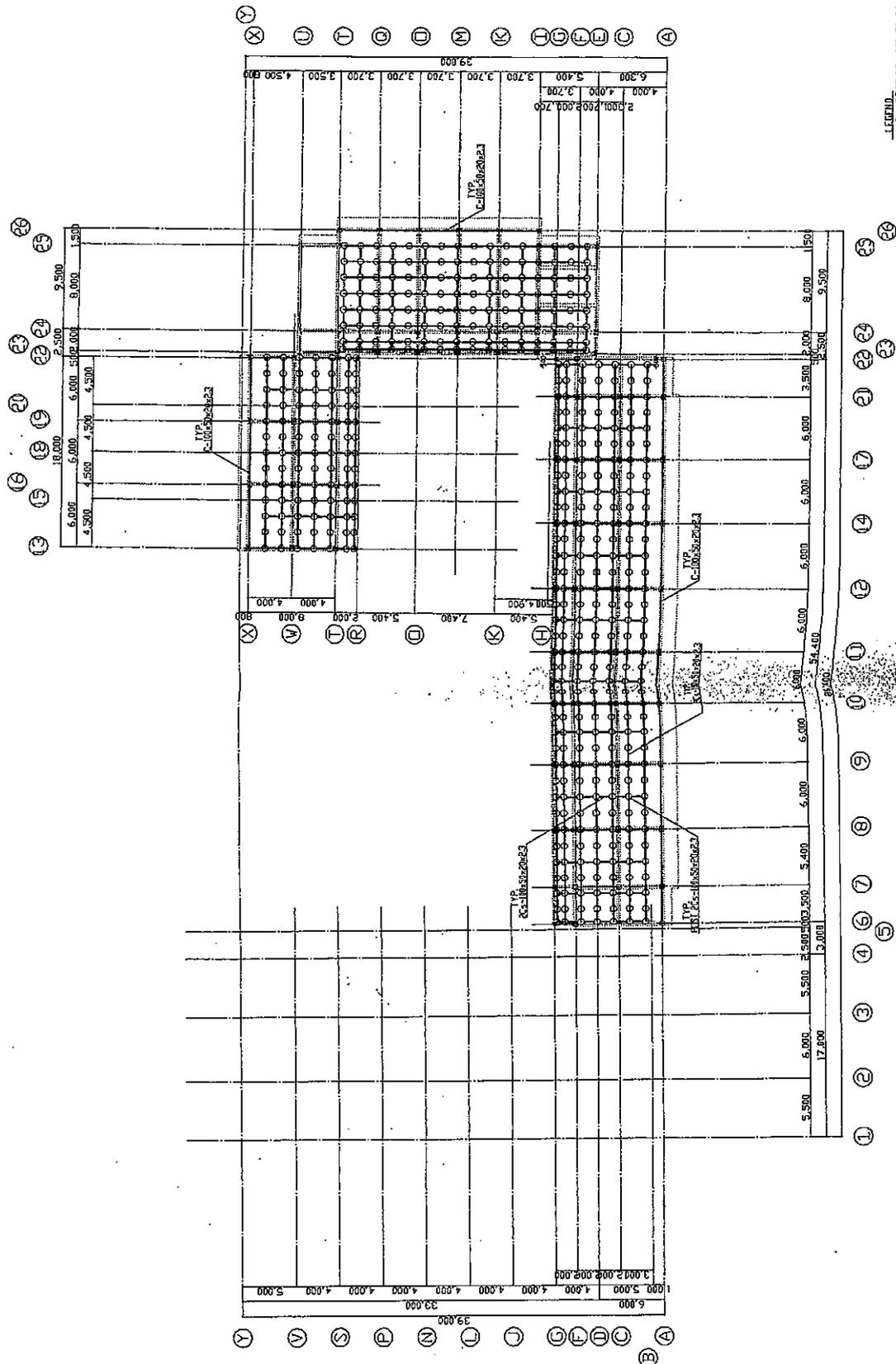
KTN-60

NOTE:
 1. FINISH FLOOR SLAB LEVEL OF SLAB BE FL-30.
 2. FINISH FLOOR SLAB LEVEL OF SLAB BE FL-30.

LEGEND:
 CONCRETE COLUMN AND WALL
 SLAB LEVEL
 FL-30
 FL-20
 FL-10

KTN-60

<p>MOHRI ARCHITECT & ASSOCIATES, INC. 2-4-17 WES. 008-40 1000, 1000</p>	<p>AS BUILT DRAWING</p>		<p>PROJECT NAME RECONSTRUCTION OF THE THIRD FLOOR SLAB IN PLACE. (RECONSTRUCTION)</p>		<p>DRAWING TITLE THIRD FLOOR PLAN</p>		<p>SCALE 1/8" = 1'-0"</p>	<p>NO. 8</p>
	<p>NO.</p>	<p>DATE</p>	<p>BY</p>	<p>CHECKED</p>	<p>DATE</p>	<p>NO.</p>	<p>S-9</p>	<p>8</p>



ROOF BACKSHELL PLAN 1/200

1. REFER TO POST 205-100x50x20x2.3



KTN-61

8

KTN-61

SCALE 1/200

DATE

DRAWN BY

CHECKED BY

NO. S-11

PROJECT NAME
ROOF BACK STEEL PLAN

PROJECT NAME
THE PROJECT FOR RECONSTRUCTION
OF THE THIRD PRIMARY SCHOOL IN HALE
IN THE DISTRICT OF HAWAII

NO.

AS BUILT DRAWING

MOHRI ARCHITECT & ASSOCIATES, INC.
2-4-10 NEW, CHD-KU, TOKYO, JAPAN

601

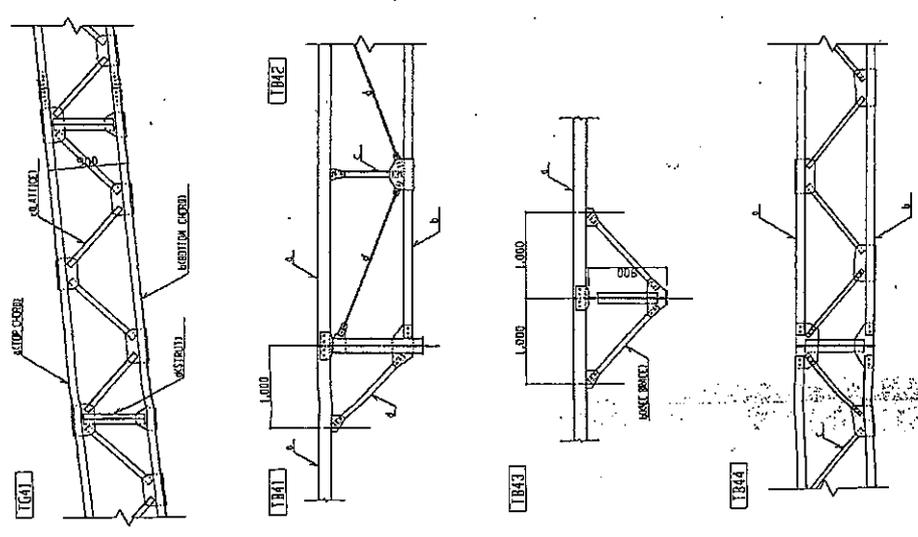
MEMBER SCHEDULE - STRUCTURAL STEEL TO BE USED SHALL BE KNOWLEDGESS OTHERWISE SPECIFIED

MARK	NUMBER	OR AS-BUILT	OR M.T.R.	REMARK
SC41	1000	1000	1000	
SC42	1000	1000	1000	

MARK	NUMBER	OR AS-BUILT	OR M.T.R.	REMARK
TR41	1000	1000	1000	
TR42	1000	1000	1000	
TR43	1000	1000	1000	
TR44	1000	1000	1000	
TR45	1000	1000	1000	
TR46	1000	1000	1000	
TR47	1000	1000	1000	
TR48	1000	1000	1000	
TR49	1000	1000	1000	
TR50	1000	1000	1000	
TR51	1000	1000	1000	
TR52	1000	1000	1000	
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TR55	1000	1000	1000	
TR56	1000	1000	1000	
TR57	1000	1000	1000	
TR58	1000	1000	1000	
TR59	1000	1000	1000	
TR60	1000	1000	1000	
TR61	1000	1000	1000	
TR62	1000	1000	1000	
TR63	1000	1000	1000	
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TR66	1000	1000	1000	
TR67	1000	1000	1000	
TR68	1000	1000	1000	
TR69	1000	1000	1000	
TR70	1000	1000	1000	
TR71	1000	1000	1000	
TR72	1000	1000	1000	
TR73	1000	1000	1000	
TR74	1000	1000	1000	
TR75	1000	1000	1000	
TR76	1000	1000	1000	
TR77	1000	1000	1000	
TR78	1000	1000	1000	
TR79	1000	1000	1000	
TR80	1000	1000	1000	
TR81	1000	1000	1000	
TR82	1000	1000	1000	
TR83	1000	1000	1000	
TR84	1000	1000	1000	
TR85	1000	1000	1000	
TR86	1000	1000	1000	
TR87	1000	1000	1000	
TR88	1000	1000	1000	
TR89	1000	1000	1000	
TR90	1000	1000	1000	
TR91	1000	1000	1000	
TR92	1000	1000	1000	
TR93	1000	1000	1000	
TR94	1000	1000	1000	
TR95	1000	1000	1000	
TR96	1000	1000	1000	
TR97	1000	1000	1000	
TR98	1000	1000	1000	
TR99	1000	1000	1000	
TR100	1000	1000	1000	

NOTE: LIGHT GAGE STEEL CHANNELS (200)
SPOKES PLATE
GUSSET PLATE

MARK	NUMBER	OR AS-BUILT	OR M.T.R.	REMARK
SC41	1000	1000	1000	
SC42	1000	1000	1000	
SC43	1000	1000	1000	
SC44	1000	1000	1000	
SC45	1000	1000	1000	
SC46	1000	1000	1000	
SC47	1000	1000	1000	
SC48	1000	1000	1000	
SC49	1000	1000	1000	
SC50	1000	1000	1000	
SC51	1000	1000	1000	
SC52	1000	1000	1000	
SC53	1000	1000	1000	
SC54	1000	1000	1000	
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SC56	1000	1000	1000	
SC57	1000	1000	1000	
SC58	1000	1000	1000	
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SC67	1000	1000	1000	
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SC71	1000	1000	1000	
SC72	1000	1000	1000	
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SC95	1000	1000	1000	
SC96	1000	1000	1000	
SC97	1000	1000	1000	
SC98	1000	1000	1000	
SC99	1000	1000	1000	
SC100	1000	1000	1000	



KTN-62 8

DRAWING TITLE: STEEL ROOF MEMBER SCHEDULE
SCALE: 1/8" = 1'-0"
DATE: / /
NO: S-32

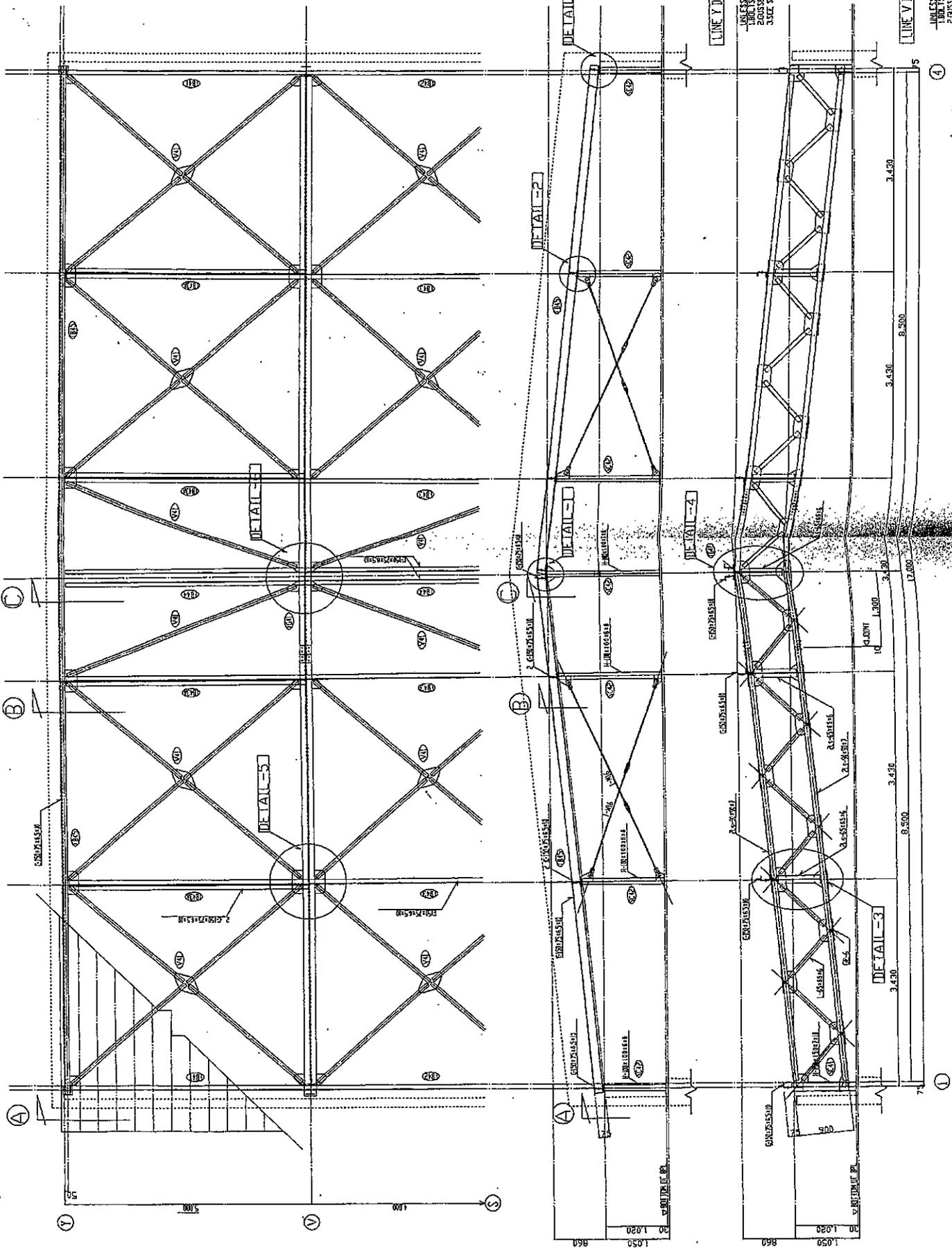
PROJECT NAME: PROJECT FOR RECONSTRUCTION OF THE THIRD PRIMARY SCHOOL IN WALE
NO: / /

MUDRI ARCHITECT & ASSOCIATES, INC.
2-10 WESOL ROAD, TORONTO, ONT. M6R 1B7

AS BUILT DRAWING

KTN-62

801



LINE Y DETAIL OF ROOF TRUSS 1/20

UNLESS OTHERWISE SPECIFIED, BOLTS SHALL BE 1/2\"/>

LINE V DETAIL OF ROOF TRUSS 1/20

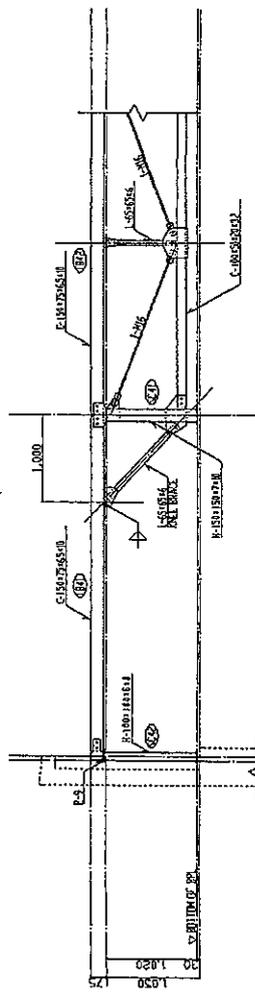
UNLESS OTHERWISE SPECIFIED, BOLTS SHALL BE 1/2\"/>

KTN-63

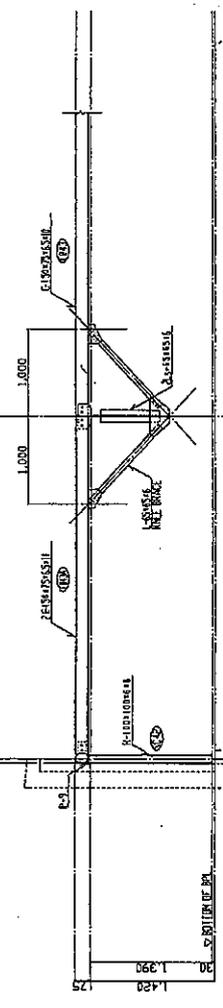
KTN-63

NO.	DATE	NO.
	Day	Year
SCALE	1/20	
DRAWING TITLE	STEEL ROOF TRUSS DETAIL-1	
PROJECT NAME	THE PROJECT FOR RECONSTRUCTION OF THE THIRD PRIMARY SCHOOL IN MALE' IN THE ROBERT WINGS	
AS BUILT DRAWING		
MUHYI ARCHITECT & ASSOCIATES, INC.	2-4-13 WING, GRIFFIN TOWER, JAWAH	
	S-33	

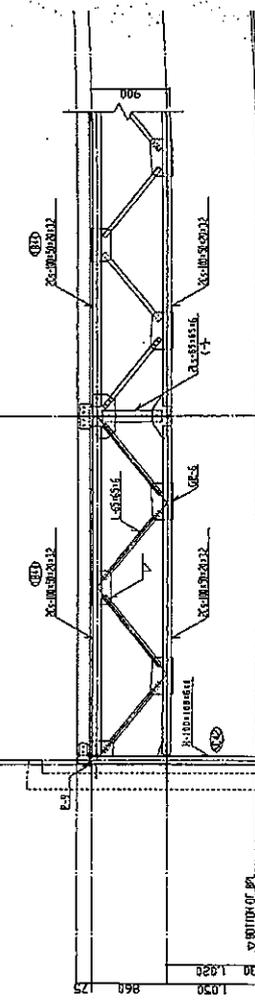
601



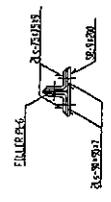
SECTION 1/4



SECTION 1/2



SECTION 1/2



SECTION 1/4

KTN-64

B

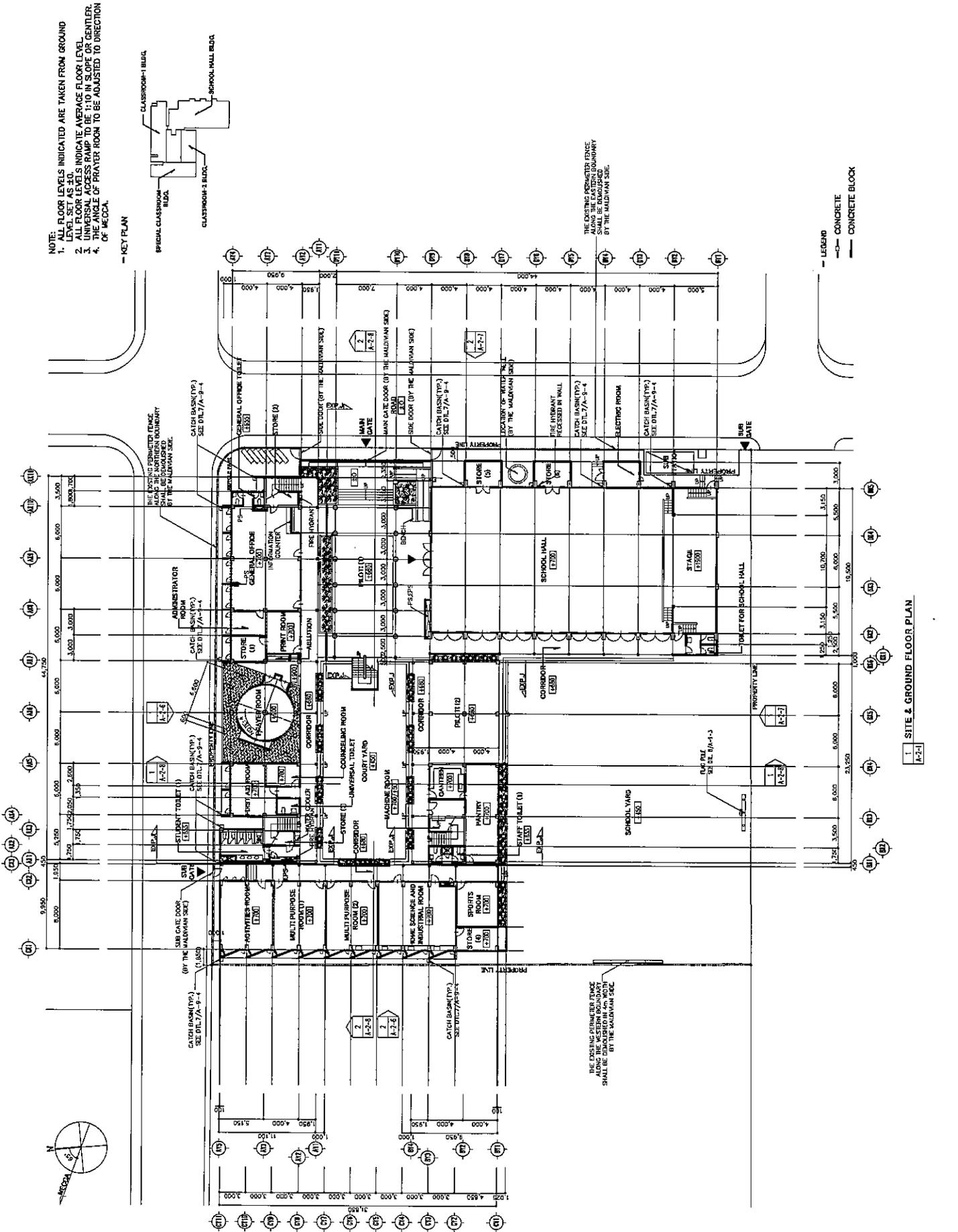
KTN-64

 MOHR ARCHITECT & ASSOCIATES, INC. 2-4 HUNTER COLLEGE ROAD, URBANA, ILL.	AS BUILT DRAWING		PROJECT NAME RECONSTRUCTION OF THE THIRD PRIMARY SCHOOL IN URBANA, ILLINOIS	DRAWING TITLE STEEL ROOF TRUSS DETAIL-2 (SCHOOL BUILD)	SCALE 1/8" = 1'-0"	DATE	NO.
	Day	City				Day	City
							S-34

No. 9.

New Secondary School for Girls

As-Build DWG

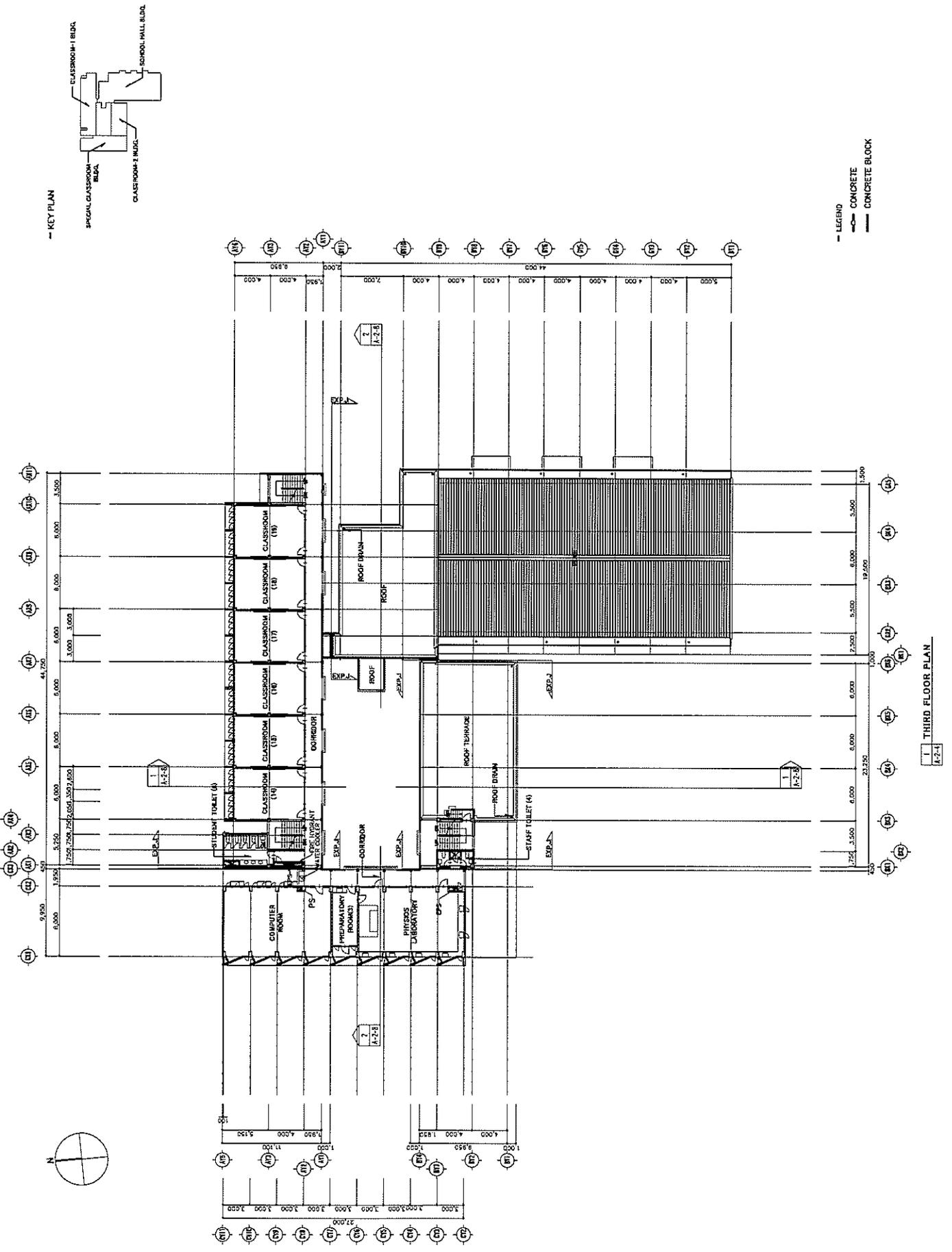


MOHRI, ARCHITECT & ASSOCIATES, INC. ARCHITECTS 10/100, THE GRAND BAY MALDIVES	PROJECT NAME THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE IN THE REPUBLIC OF MALDIVES	SCALE A2: 1:400 A3: 1:200	DRAWING TITLE SITE AND GROUND FLOOR PLAN	DRAWING NO. A-2-1
	DATE 08.02.07	DATE 08.02.07	DATE 08.02.07	DATE 08.02.07

K7N-66

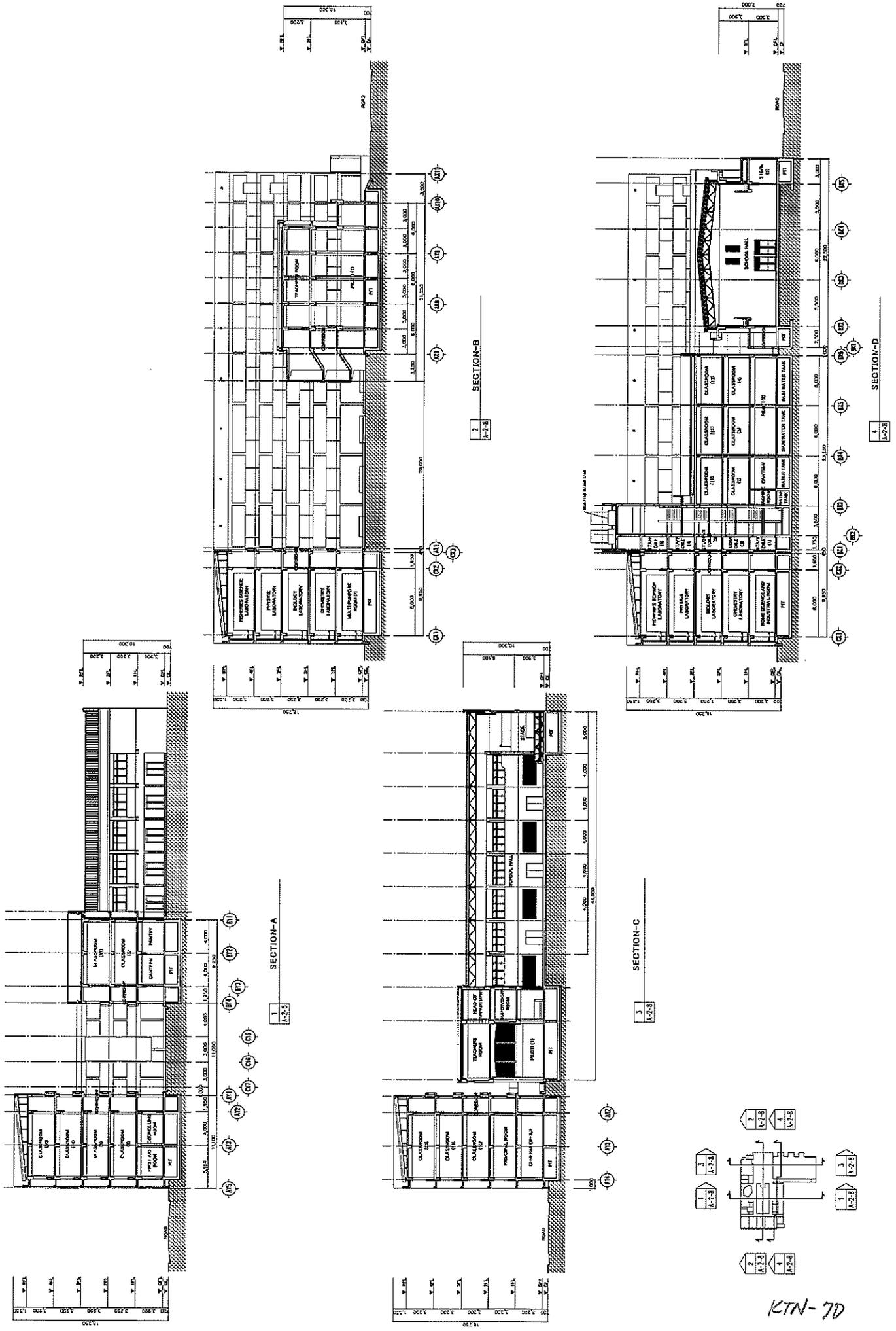
7/1

KTN-67



MOHRI, ARCHITECT & ASSOCIATES, INC. 1105 SOUTH 10TH AVENUE, SUITE 100 DENVER, COLORADO 80202 TEL: 303.733.1111 FAX: 303.733.1112 WWW.MOHRIARCHITECT.COM	PROJECT NAME THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE IN THE REPUBLIC OF MALDIVES	DRAWING TITLE THIRD GROUND FLOOR PLAN	DRAWING NO. 08.02.07
	SCALE A3: 1:400 A4: 1:800	DATE 17/07/2011	CHECKED BY [Signature]

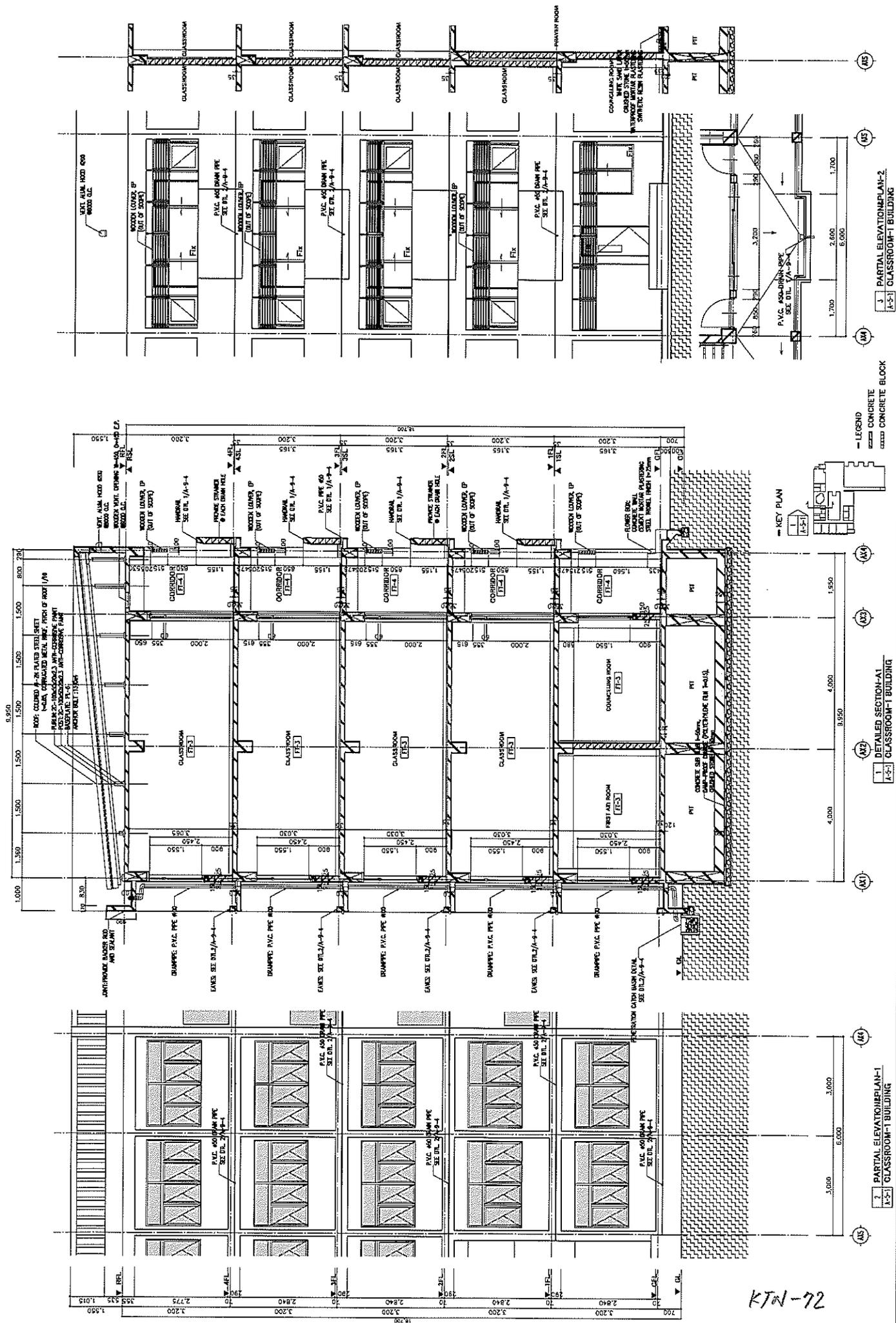
111



M MOHRI, ARCHITECT & ASSOCIATES, INC. PROJECT OFFICE 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000	PROJECT NAME THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE IN THE REPUBLIC OF MALDIVES	SCALE 1:200 1:400	DRAWING TITLE SECTIONS	DRAWING NO. A-2-8
	MOHRI ARCHITECT & ASSOCIATES, INC. PROJECT OFFICE 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000	CHECKED BY APPROVED BY	DATE 08/02/07	DRAWING NO. A-2-8

KTN-7D

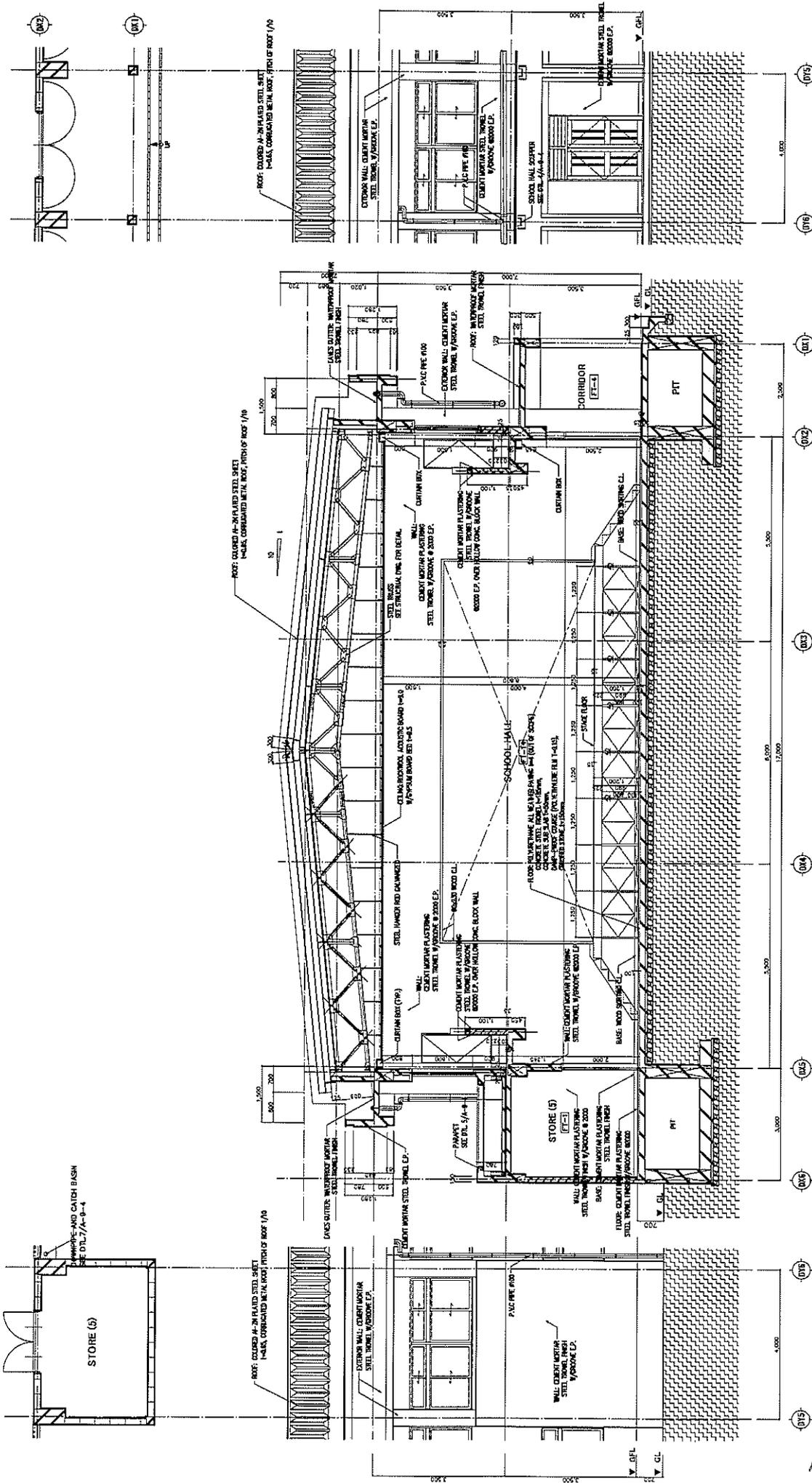
117



MOHRI, ARCHITECT & ASSOCIATES, INC. 5th FLOOR 100, N. J. ROAD SUITE 500 NEW YORK, N.Y. 10019 TEL: 212 633 1100 FAX: 212 633 1101 WWW.MOHRI.COM	PROJECT NAME THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE' IN THE REPUBLIC OF MALDIVES		DRAWING TITLE CLASSROOM-1 BUILDING DETAILED SECTION	NO. A-5-1
	SCALE A1: 1:100 A2: 1:100	DATE 08.02.07	DATE 08.02.07	NO. A-5-1
	PROJECT NAME CLASSROOM-1 BUILDING	DATE 08.02.07	DATE 08.02.07	NO. A-5-1

KTN-72

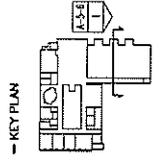
511



2. PARTIAL ELEVATION PLAN-1
A-5-6 SCHOOL HALL BUILDING

1. DETAILED SECTION-2
A-5-6 SCHOOL HALL BUILDING

3. PARTIAL ELEVATION PLAN-2
A-5-6 SCHOOL HALL BUILDING

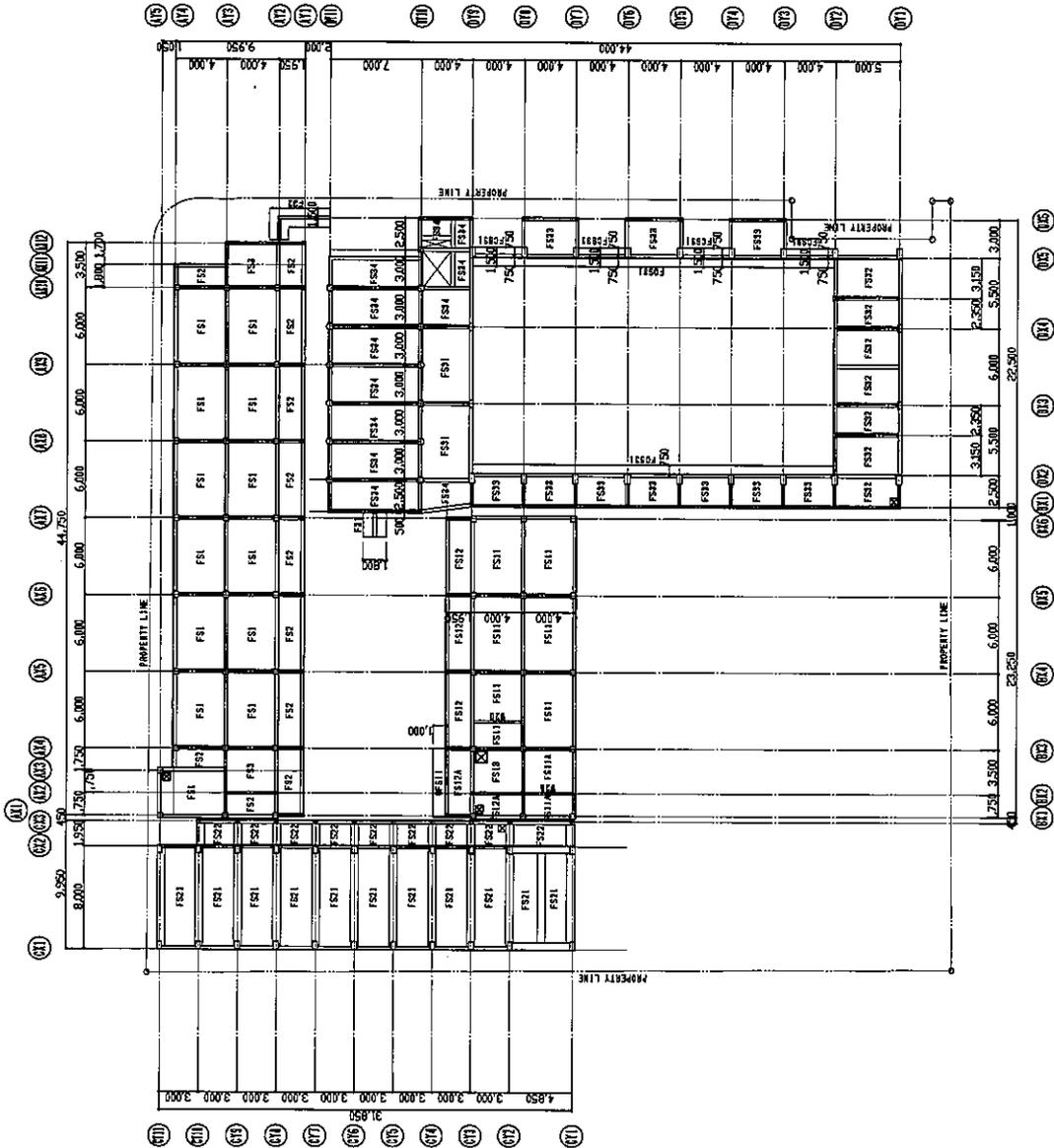


LEGEND
CONCRETE
CONCRETE BLOCK

<p>MOHRI, ARCHITECT & ASSOCIATES, INC. 100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000</p>	<p>PROJECT NAME THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE' IN THE REPUBLIC OF MALDIVES</p>	<p>SCALE 1:50 A2 1:100</p>	<p>DRAWING TITLE SCHOOL HALL BUILDING DETAILED SECTION-2</p>	<p>DATE 08.02.07</p>	<p>NO. A-5-6</p>
	<p>APPROVED BY [Signature]</p>	<p>CHECKED BY [Signature]</p>	<p>DRAWN BY [Signature]</p>	<p>DATE 08.02.07</p>	<p>NO. A-5-6</p>

KTN-74

1-1



FOUNDATION FLOOR PLAN 1/200

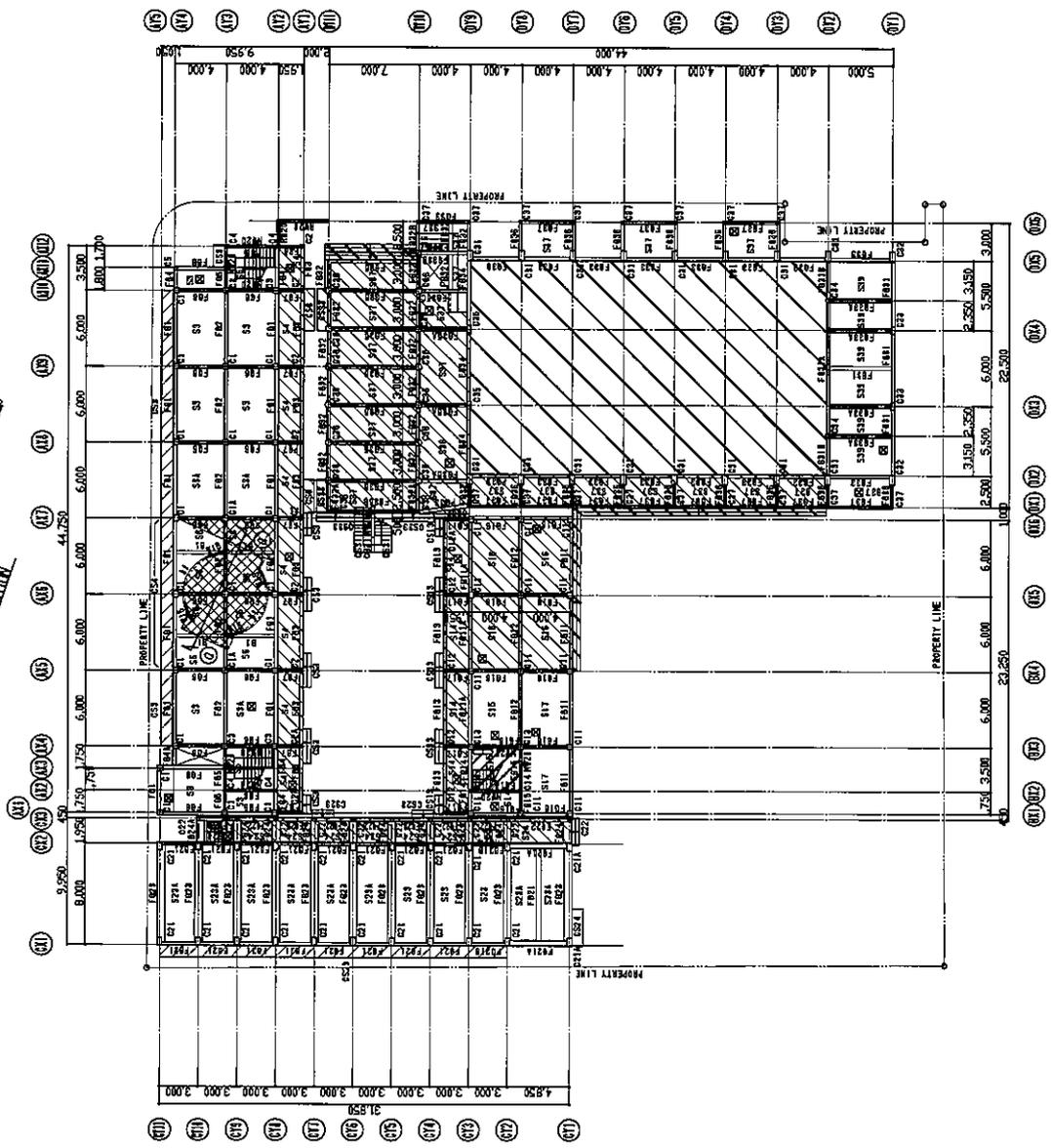
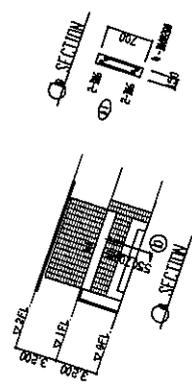


KTN-76

LEGEND
 - LEVEL OF FOUNDATION BOTTOM BE 0-1,201.
 □ SUMPING 600x300x400 (DEPTH)
 ⊗ SUMPING 300x300x400 (DEPTH)

M MOHRI, ARCHITECT & ASSOCIATES, INC. MOHRI ARCHITECTURE 100, 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.	PROJECT NAME	SCALE 1:200	DRAWING TITLE	DRAWN BY	CHECKED BY	DATE	NO.	
	THE PROJECT FOR CONSTRUCTION OF	FOUNDATION FLOOR PLAN	S-004	THE SECOND GIRLS SECONDARY SCHOOL IN MALE'				
	IN THE REPUBLIC OF MALDIVES							

221



NOTE:
 1. GROUND FL=FL+700
 2. TOP LEVEL OF FOUNDATION GIRDER BE GROUND FL-200.
 3. TOP LEVEL OF SLAB BE FL-35.

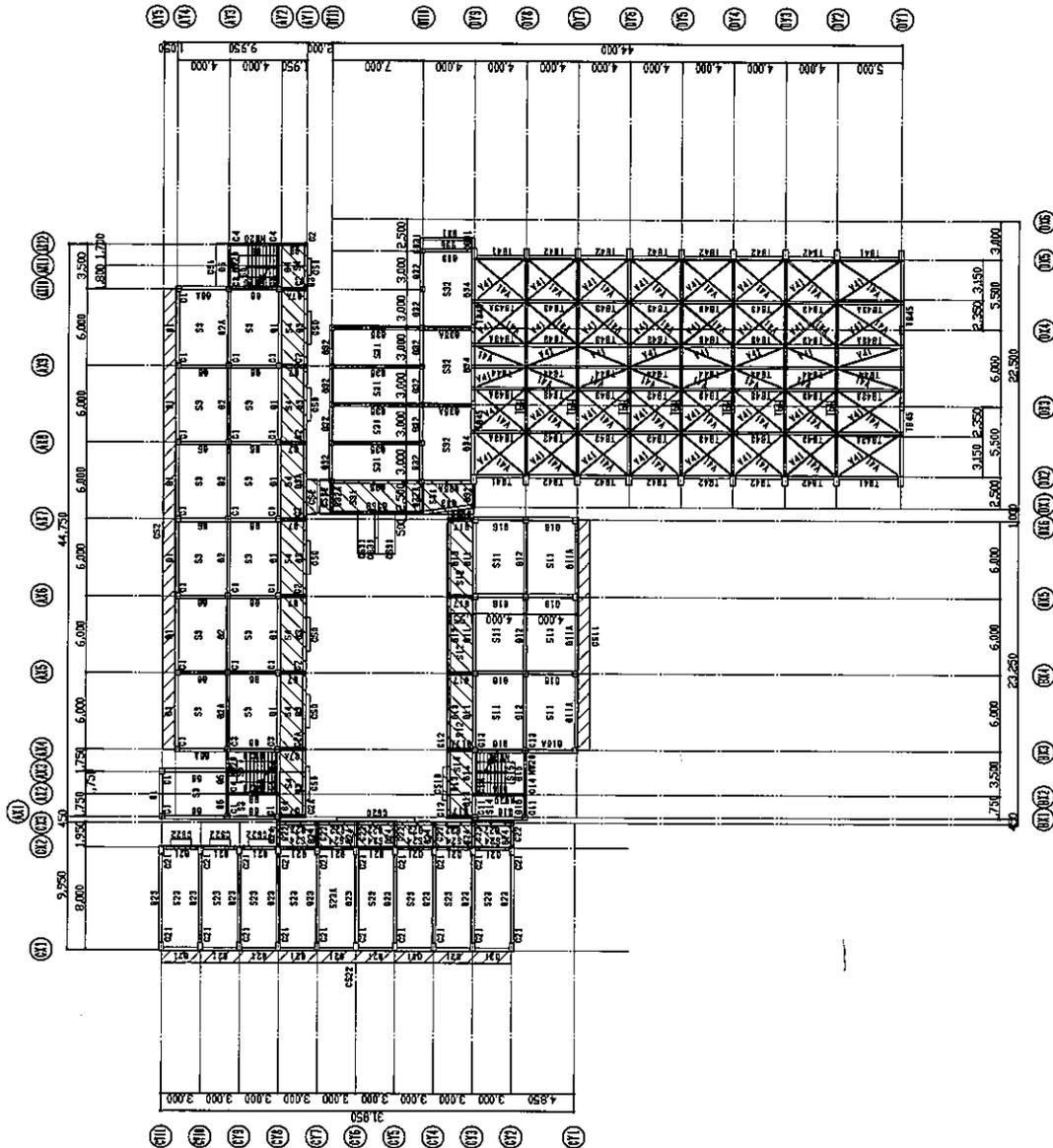
LEGEND
 [Symbol] CONCRETE COLUMN AND WALL
 [Symbol] SLAB ON GRADE
 [Symbol] INSPECTION HOLE 8001600

LEGEND
 [Symbol] SLAB LEVEL
 [Symbol] FL-30
 [Symbol] FL-35
 [Symbol] FL-60
 [Symbol] FL-65
 [Symbol] FL-105

KTN-77

	MOHRI, ARCHITECT & ASSOCIATES, INC. <small>MOHRI ARCHITECT & ASSOCIATES, INC. 100% JAPAN TEL: 03-4321-1800 FAX: 03-4321-1808 100% MALAYSIA TEL: 03-2627-2807 FAX: 03-2627-2808</small>	PROJECT NAME THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE' IN THE REPUBLIC OF MALDIVES	DRAWING TITLE GROUND FLOOR PLAN	NO. S-005	
	MOHRI, ARCHITECT & ASSOCIATES, INC. 100% JAPAN TEL: 03-4321-1800 FAX: 03-4321-1808 100% MALAYSIA TEL: 03-2627-2807 FAX: 03-2627-2808	SCALE 1:200	DATE	DRAWN BY	CHECKED BY

321



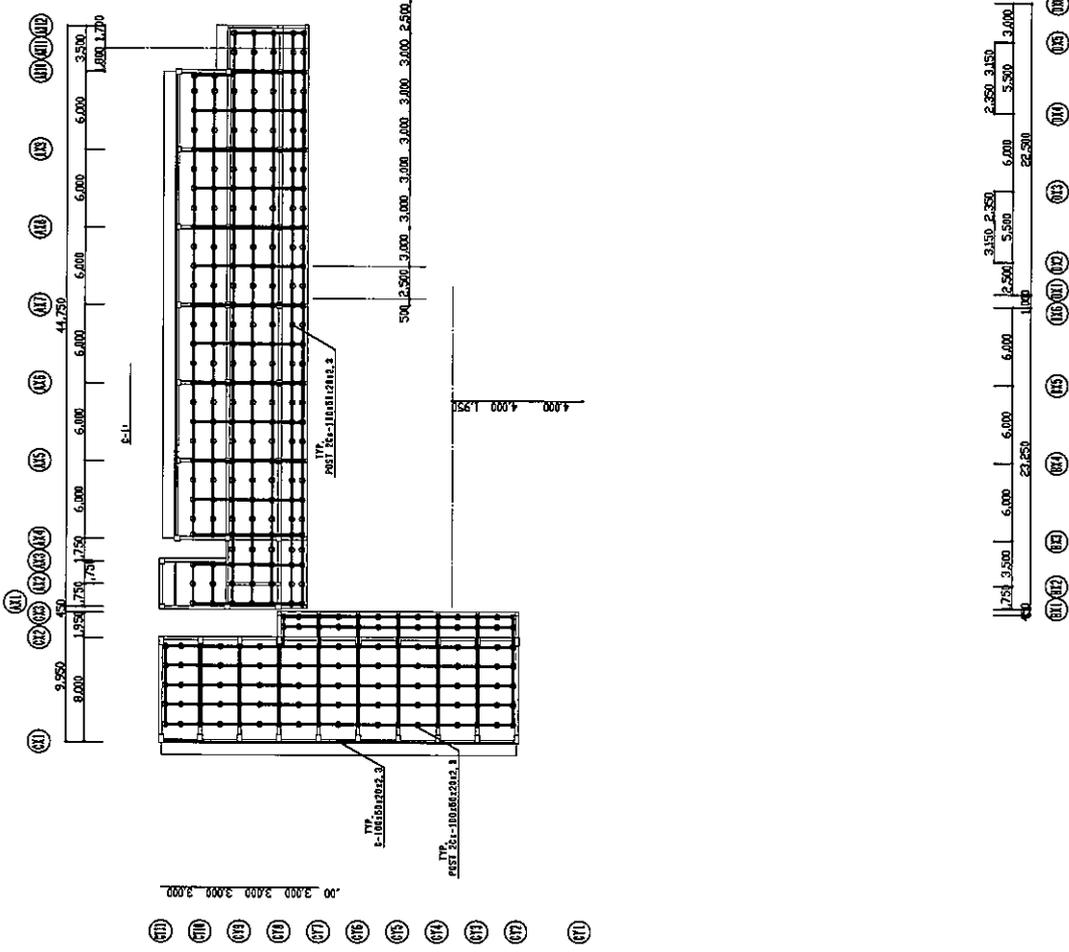
KTN-78

- NOTE
1. FLOOR FINISH TO BE FL-95.
 2. TOP LEVEL OF SLAB BE FL-95.
- LEGEND
- CONCRETE COLUMN AND WALL
 - SLAB LEVEL
 - FL-95
 - FL-85
 - FL-125

THIRD FLOOR PLAN

M MOHRI, ARCHITECT & ASSOCIATES, INC. MOHRI ARCHITECT & ASSOCIATES, INC. 1000 BAYVIEW BLVD., SUITE 1000 BOSTON, MASSACHUSETTS 02127 TEL: 617-552-1000 FAX: 617-552-1001	PROJECT NAME THE SECOND GIRLS SECONDARY SCHOOL IN MALE' IN THE REPUBLIC OF MALDIVES	DRAWING TITLE THIRD FLOOR PLAN	SCALE 1/200	DRAWN BY DATE	NO. S-008
	CHECKED BY APPROVED BY	SCALE 1:200	DRAWING TITLE THIRD FLOOR PLAN	SCALE 1/200	DRAWN BY DATE

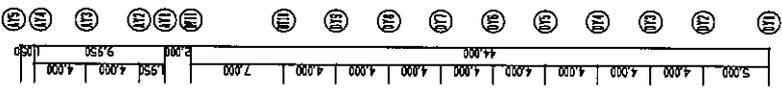
021



1:200
© PWT 25-100-0202.3



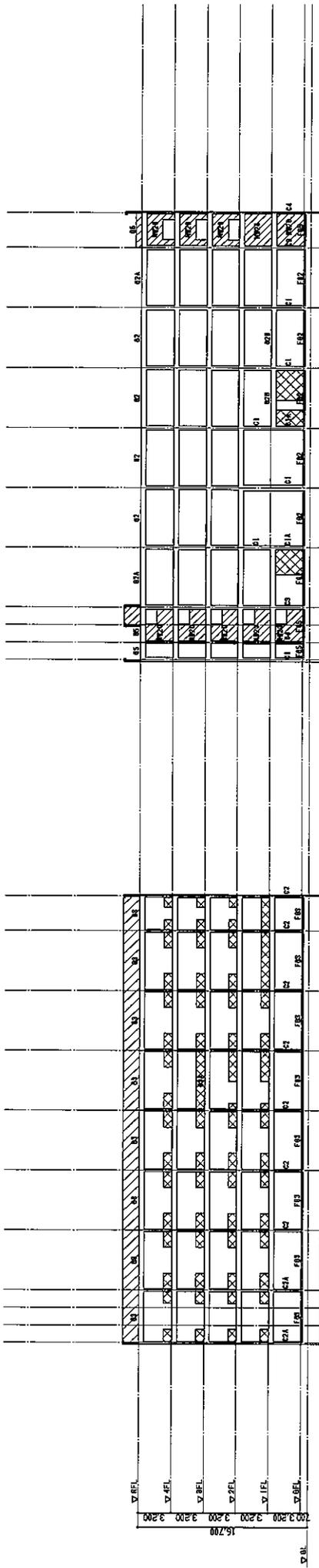
KTN-79



ROOF BACK STEEL PLAN 1/2110

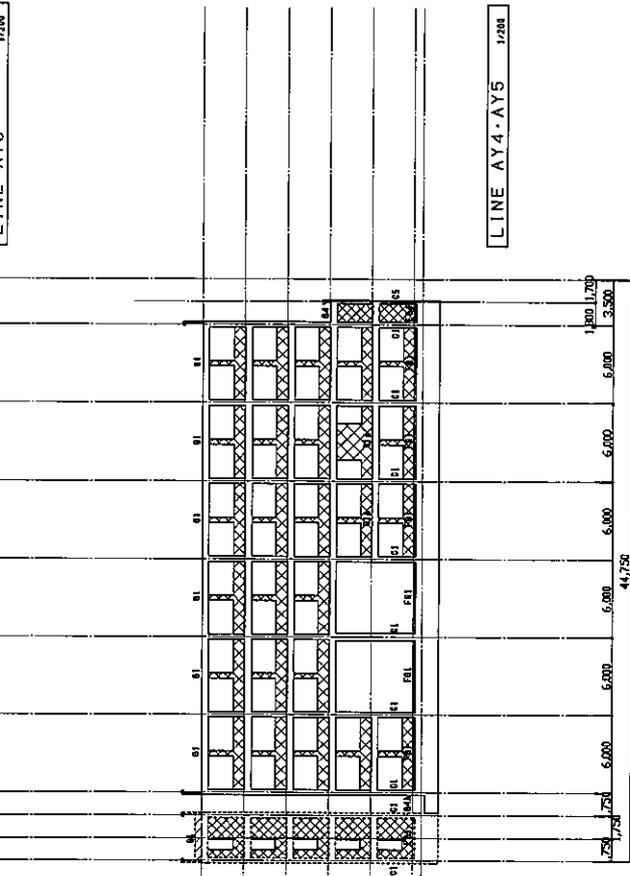
M MOHRI, ARCHITECT & ASSOCIATES, INC. <small>HEAD OFFICE: 100/100, MALDIVES, THE MALDIVES ARCHITECTS ASSOCIATION, MALDIVES TEL: 11-881-1000 FAX: 11-881-1000 1976, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 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3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3882, 3883, 3884, 3885, 3886, 3887, 3888, 3889, 3890, 3891, 3892, 3893, 3894, 3895, 3896, 3897, 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, </small>
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5/1



LINE AY1 1/200

LINE AY3 1/200



LINE AY2 1/200

LINE AY4 - AY5 1/200



- NOTE
1. TOP LEVEL OF FOUNDATION BINDER BE BFL-200.
 2. WALLS ARE 200mm THICK UNLESS OTHERWISE INDICATED.
 3. UNLESS OTHERWISE INDICATED COLUMN IS SAME AS DOWNSTAIRS.
 4. UNLESS OTHERWISE INDICATED GIRDER MADE IS SAME AS UPSTAIRS.

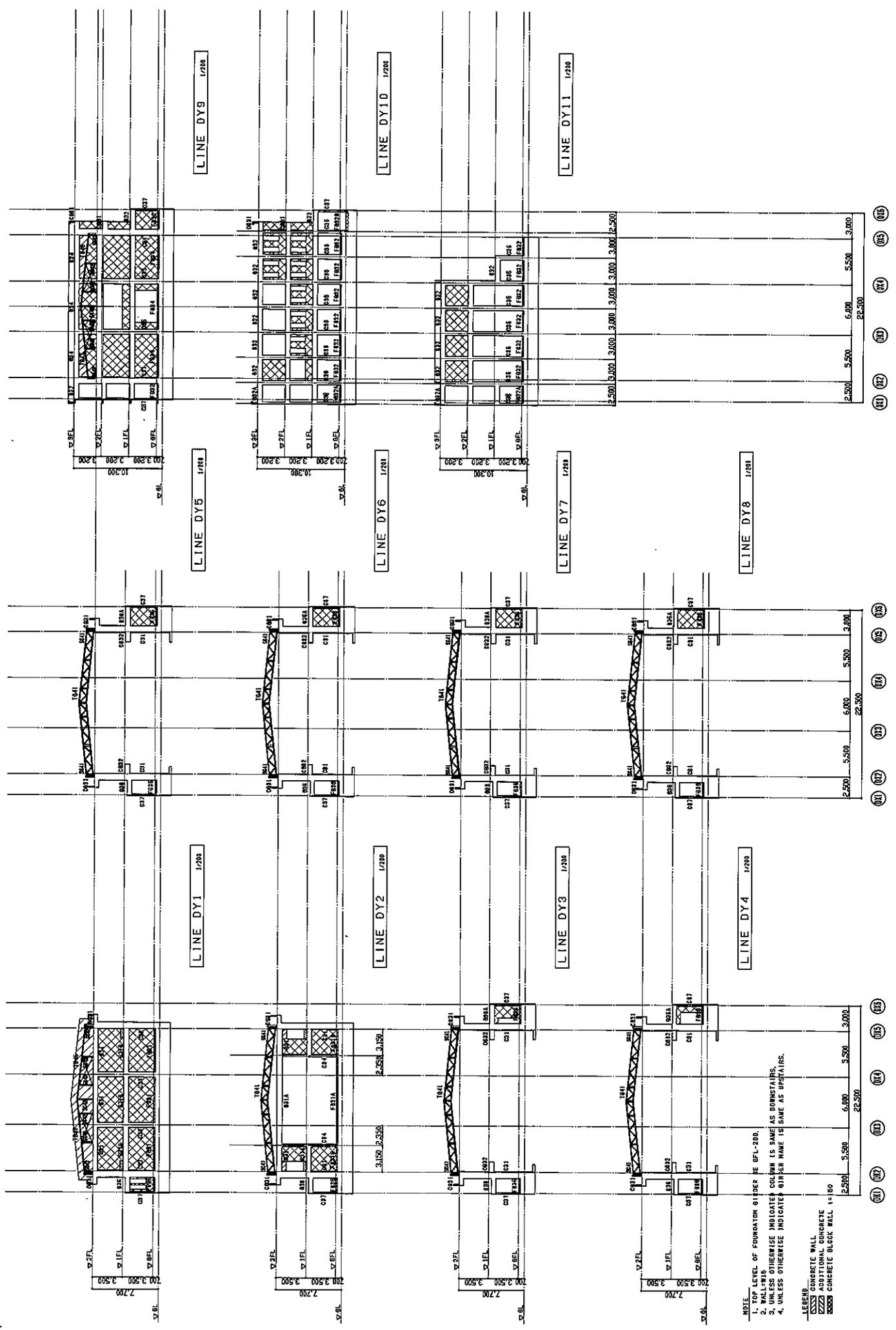
LEGEND

- CONCRETE WALL
- ADDITIONAL CONCRETE
- CONCRETE BLOCK WALL

 MOHR I, ARCHITECT & ASSOCIATES, INC. <small>MOHR I, ARCHITECT & ASSOCIATES, INC. 100/100, 100/100, MALDIVES</small> <small>TEL: 96-02511-0000 FAX: 96-02511-0000</small> <small>TEL: 96-1181-0017 965-8217 772-0217 FAX 96-1 845-0000</small>	PROJECT NAME THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE' IN THE REPUBLIC OF MALDIVES	DRAWING TITLE FRAMING ELEVATION (CLASSROOM - 1) - 1	SCALE 1:200	DRAWN BY CHECKED BY APPROVED BY	DATE NO. S-012
	MOHR I, ARCHITECT & ASSOCIATES, INC. 100/100, 100/100, MALDIVES TEL: 96-02511-0000 FAX: 96-02511-0000 TEL: 96-1181-0017 965-8217 772-0217 FAX 96-1 845-0000				

KTN-80

921



NOTE
 1. TOP LEVEL OF FOUNDATION OTHER BE VFL-200.
 2. UNLESS OTHERWISE INDICATED COLUMN IS SAME AS DOWNSTAIRS.
 3. UNLESS OTHERWISE INDICATED BEAM NAME IS SAME AS UPSTAIRS.
 4. UNLESS OTHERWISE INDICATED GIRDER NAME IS SAME AS UPSTAIRS.

LEGEND
 CONCRETE WALL
 ADDITIONAL CONCRETE
 CONCRETE BLOCK WALL 1/2 100

KTN-81

62

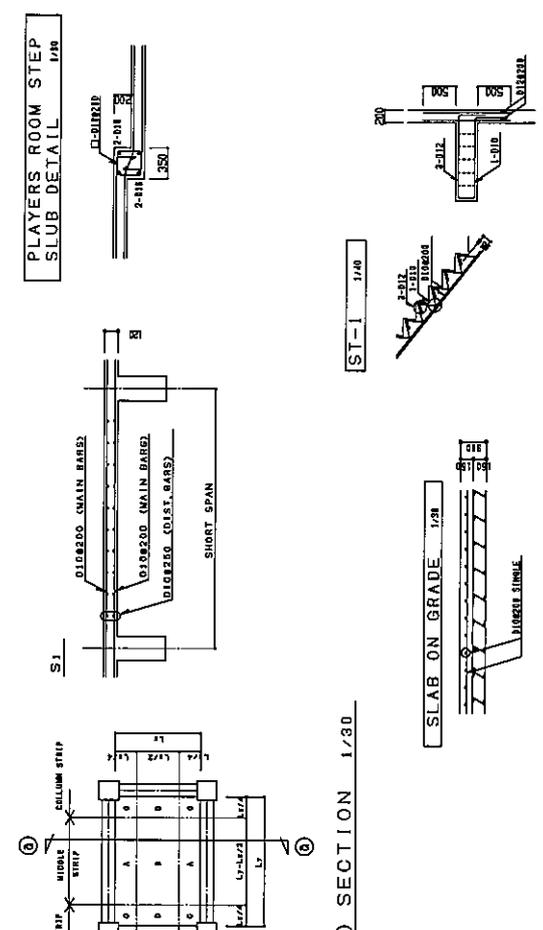
GIRDER SCHEDULE (2) 1/20 UNLESS OTHERWISE INDICATED : STRIPUP Q-310250 TIE BARS --0104810

NAME	LOCATION	Q6A		Q7	Q7A	Q8
		OTHER END	CENTER			
ROOF FL	SECTION					
	TOP BARS	4-000	2-000	2-000	6-000	2-018
	BOTT. BARS	3-000	1-000	2-000	6-000	2-018
	MIDR. BARS					
FLOOR FL	SECTION					
	TOP BARS	6-000	2-000	2-000		0110
	BOTT. BARS	3-000	1-000	2-000		0110
	MIDR. BARS					
THIRD FL	SECTION					
	TOP BARS				3-000	0110
	BOTT. BARS				4-000	0110
	MIDR. BARS					
SECOND FL	SECTION					
	TOP BARS					0110
	BOTT. BARS					0110
	MIDR. BARS					
FIRST FL	SECTION					
	TOP BARS					0110
	BOTT. BARS					0110
	MIDR. BARS					

SLAB SCHEDULE

NAME	THICKNESS	BATH BASE			MIDDLE STRIP			COLUMN STRIP			DIST. BASE			NOTE
		TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	
S1	120	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
S2	120	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
S3	120	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
S3A	120	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
S4	120	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
S5	120	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
S6	120	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
CS0	120	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
CS1	150-150	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
CS2	150-150	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
CS3	150	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
CS4	150	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
FS1	80	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
FS2	80	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE
FS3	80	TOP	BOTT	MIDR.	ENDS	CENTER	ALL	ENDS	CENTER	ALL	ENDS	CENTER	ALL	DOUBLE

KEY PLAN



WALL SCHEDULE 1/20

NAME	SECTION	W15	NW20	CB15	WB REINFORCEMENT
SECTION					
VERT. BAR	010-000 SIMILE				
HORIZ. BAR	010-000 SIMILE				
a	1-012	1-012	4-012	1-012	1-012
b	1-012	1-012	4-012	1-012	1-012
c	1-012	1-012	2-012	1-012	1-012

BEAM SCHEDULE 1/20

NAME	LOCATION	OTHER END	CENTER	B1	ENHANCEMENT END
SECTION					
TOP BARS	5-000	5-000	5-000	5-000	5-000
BOTT. BARS	5-000	5-000	5-000	5-000	5-000
STRIPUP	Q-310250	Q-310250	Q-310250	Q-310250	Q-310250
MIDR. BARS	2-010	2-010	2-010	2-010	2-010

M MOHRI, ARCHITECT & ASSOCIATES, INC.
 1000 RIFKIN BLVD., SUITE 1000, WASHINGTON, DC 20004
 TEL: 202-521-1000 FAX: 202-521-1000

PROJECT NAME: THE SECOND GIRLS SECONDARY SCHOOL IN MALE' IN THE REPUBLIC OF MALDIVES

DRAWING TITLE: GIRDER SCHEDULE (2) SLAB, WALL AND MISCELLANEOUS (CLASSROOM-1)

SCALE: 1:30 1:40

DATE: 2020

NO. S-021

KTN-82

621

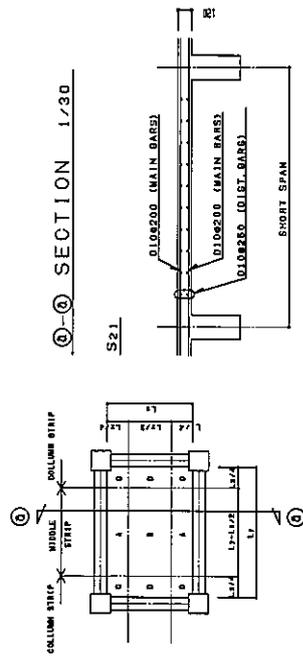
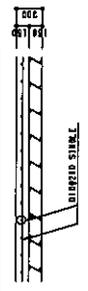
SLAB SCHEDULE

NAME	THICKNESS	MIDDLE STRIP		COLUMN STRIP		DIST. BARS		NOTE
		ENDS	CENTER	ENDS	CENTER	ENDS	MIDDLE STRIP	
S21	120	TOP	010-0210	ALL	010-0210	DOUBLE		
S22	120	BOIT	010-0210	ALL	010-0210	DOUBLE		
S23	120	TOP	010-0210	ALL	010-0210	DOUBLE		
S23A	120	BOIT	010-0210	ALL	010-0210	DOUBLE		
S24	120	TOP	010-0210	ALL	010-0210	DOUBLE		
S25	120	BOIT	010-0210	ALL	010-0210	DOUBLE		
CS20	150	TOP	011-0200	ALL	011-0200	DOUBLE		
CS21	150-170	TOP	011-0200	ALL	011-0200	DOUBLE		
CS21A	150-170	BOIT	011-0200	ALL	011-0200	DOUBLE		
CS22	150-170	TOP	011-0200	ALL	011-0200	DOUBLE		
CS23	150	TOP	011-0200	ALL	011-0200	DOUBLE		
CS24	150	BOIT	011-0200	ALL	011-0200	DOUBLE		
FS21	200	TOP	012-0100	ALL	012-0100	DOUBLE		
FS22	200	BOIT	012-0100	ALL	012-0100	DOUBLE		

WALL SCHEDULE

NAME	W 15	OB 15	FOR REINFORCEMENT
SECTION	W 15	OB 15	
KEY BAR	W 15-200 STIMBLE	OB 15-100 STIMBLE	
WALL BAR	W 15-200 STIMBLE	OB 15-100 STIMBLE	
1	1-212	1-212	
2	1-212	1-212	
3	1-212	1-212	
4	1-212	1-212	

SLAB ON GRADE



KEY PLAN

MOHRI, ARCHITECT & ASSOCIATES, INC. MOHRI ARCHITECT & ASSOCIATES, INC. 1000 JEFFERSON AVENUE, SUITE 1000 NEW YORK, NY 10017-1100 TEL: (212) 691-1000 FAX: (212) 691-1001	PROJECT NAME	THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE' IN THE REPUBLIC OF MALDIVES	DRAWING TITLE	SLAB, WALL AND MISCELLANEOUS (SPECIAL CLASSROOM)	SCALE	1:30 1:40	DRAWN BY	DATE	NO.	S-029
	MOHRI ARCHITECT & ASSOCIATES, INC. 1000 JEFFERSON AVENUE, SUITE 1000 NEW YORK, NY 10017-1100 TEL: (212) 691-1000 FAX: (212) 691-1001									

KTN-84

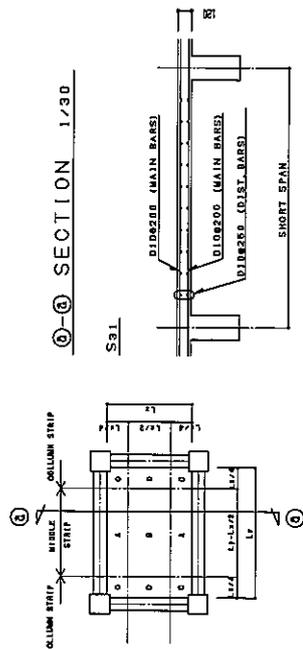
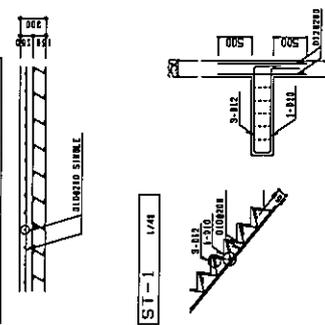
SLAB SCHEDULE

NAME	THICKNESS	MAIN BARS			DIST. BARS	NOTE
		MIDDLE STRIP	COLUMN STRIP	EDGE STRIP		
		ENDS	CENTER	ALL		
S31	120	TOP BOT	D14-4200	D14-4250	DOUBLE	
S32	120	TOP BOT	D10-D12-4200	D14-4250	DOUBLE	
S33	120	TOP BOT	D14-4200	D14-4250	DOUBLE	
S34	120	TOP BOT	D10-D12-4200	D14-4250	DOUBLE	
S35	120	TOP BOT	D14-4200	D14-4250	DOUBLE	
S36	120	TOP BOT	D14-4200	D14-4250	DOUBLE	
S37	120	TOP BOT	D14-4200	D14-4250	DOUBLE	
S38	120	TOP BOT	D10-D12-4200	D14-4250	DOUBLE	
S39	120	TOP BOT	D14-4200	D14-4250	DOUBLE	
CS31	160	TOP BOT	D12-4200	D10-D12-4210	DOUBLE	
CS32	160-120	TOP BOT	D12-4150	D14-4250	DOUBLE	
CS33	120	TOP BOT	D12-4200	D14-4250	DOUBLE	
FS31	300	TOP BOT	D12-4200	D12-4200	DOUBLE	
FS32	260	TOP BOT	D12-4200	D12-4200	DOUBLE	
FS33	250	TOP BOT	D12-4150	D12-4200	DOUBLE	
FS34	250	TOP BOT	D12-4100	D12-4200	DOUBLE	
FC331	250	TOP BOT	D12-4150	D12-4200	DOUBLE	

WALL SCHEDULE

NAME	W15	RW20	NW25	CB15	PER REINFORCEMENT
SECTION	D14-4200 SINGLE D14-4200 SINGLE	D14-4200 DOUBLE D14-4200 DOUBLE	D14-4200 DOUBLE D14-4200	D14-4200 SINGLE D14-4200 SINGLE	SEE DETAIL
a	L-012	2-018	2-018	L-012	
b	L-012	2-012	2-012	L-012	
c	L-012	2-012	2-012	L-012	

SLAB ON GRADE



KEY PLAN

M MOHRRI, ARCHITECT & ASSOCIATES, INC. PROJECT NAME THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE' IN THE REPUBLIC OF MALDIVES

NO. S-033

DATE

DRAWN BY

CHECKED BY

APPROVED BY

DRAWING TITLE SLAB, WALL AND NICELLANEIOUS (SCHOOL HALL)

SCALE 1:100

SCALE 1:40

K7N-85

161

MEMBER SCHEDULE STRUCTURAL STEEL TO BE USED SHALL BE SS400, UNLESS OTHERWISE SPECIFIED.

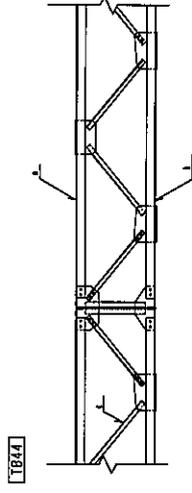
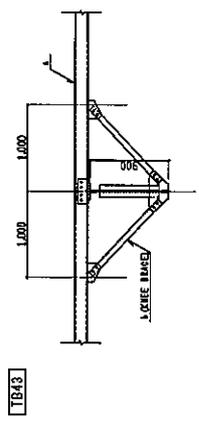
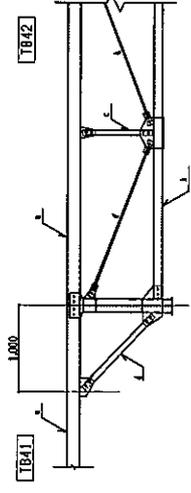
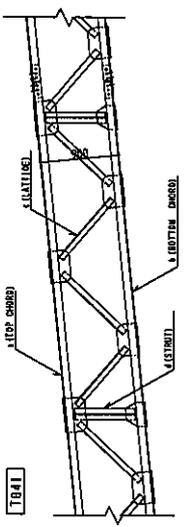
MARK	MEMBER	SPL. N.T.A.	REMARK
1041	PLATE 1041		
1042	PLATE 1042		
1043	PLATE 1043		
1044	PLATE 1044		
1045	PLATE 1045		
1046	PLATE 1046		
1047	PLATE 1047		
1048	PLATE 1048		
1049	PLATE 1049		
1050	PLATE 1050		

MARK	MEMBER	FLANGE (D)	FLANGE (T)	WEB	N.T.A.	REMARK
1041	2L-100x10	10	10	10	10	SEE DETAIL-1
1042	2L-100x10	10	10	10	10	SEE DETAIL-1
1043	2L-100x10	10	10	10	10	SEE DETAIL-1
1044	2L-100x10	10	10	10	10	SEE DETAIL-1
1045	2L-100x10	10	10	10	10	SEE DETAIL-1
1046	2L-100x10	10	10	10	10	SEE DETAIL-1
1047	2L-100x10	10	10	10	10	SEE DETAIL-1
1048	2L-100x10	10	10	10	10	SEE DETAIL-1
1049	2L-100x10	10	10	10	10	SEE DETAIL-1
1050	2L-100x10	10	10	10	10	SEE DETAIL-1

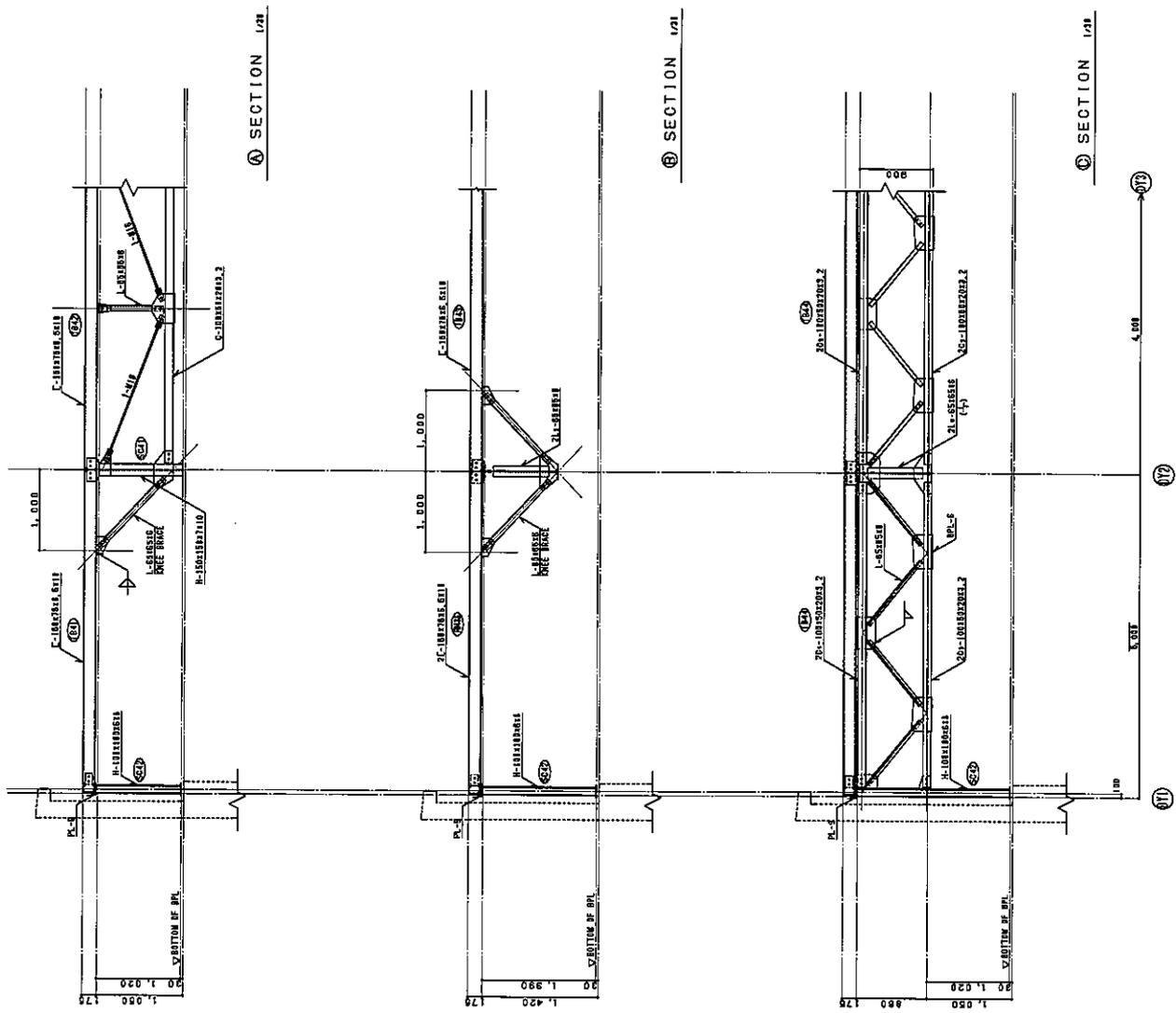
NOTE: 1. LIGHT GAGE STEEL CHANNEL (SS400)
2. 20mm GAGE PLATE
3. 20mm GAGE PLATE

MARK	SECTION	SIZE LINE	1/4" LINE	3/4" LINE	SS42	REMARK
1041	SECTION 1041	64x100x50	64x100x50	64x100x50	64x100x50	
1042	SECTION 1042	64x100x50	64x100x50	64x100x50	64x100x50	
1043	SECTION 1043	64x100x50	64x100x50	64x100x50	64x100x50	
1044	SECTION 1044	64x100x50	64x100x50	64x100x50	64x100x50	
1045	SECTION 1045	64x100x50	64x100x50	64x100x50	64x100x50	
1046	SECTION 1046	64x100x50	64x100x50	64x100x50	64x100x50	
1047	SECTION 1047	64x100x50	64x100x50	64x100x50	64x100x50	
1048	SECTION 1048	64x100x50	64x100x50	64x100x50	64x100x50	
1049	SECTION 1049	64x100x50	64x100x50	64x100x50	64x100x50	
1050	SECTION 1050	64x100x50	64x100x50	64x100x50	64x100x50	

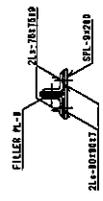
(2) BASE PLATE (S-120) NOTE: 0.8" THICKNESS



K7N-86

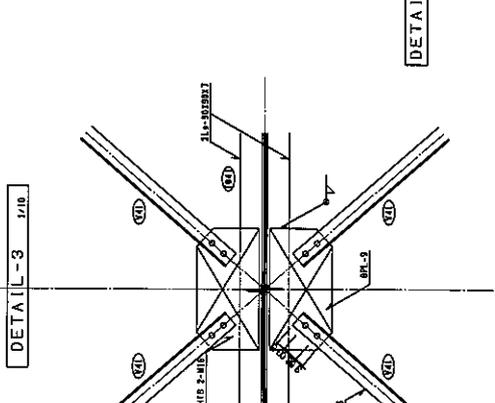
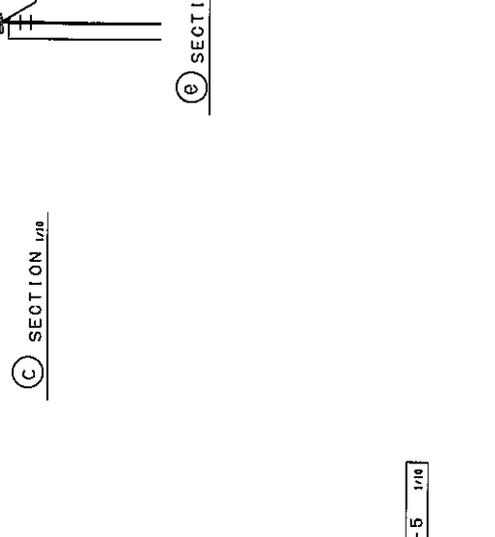
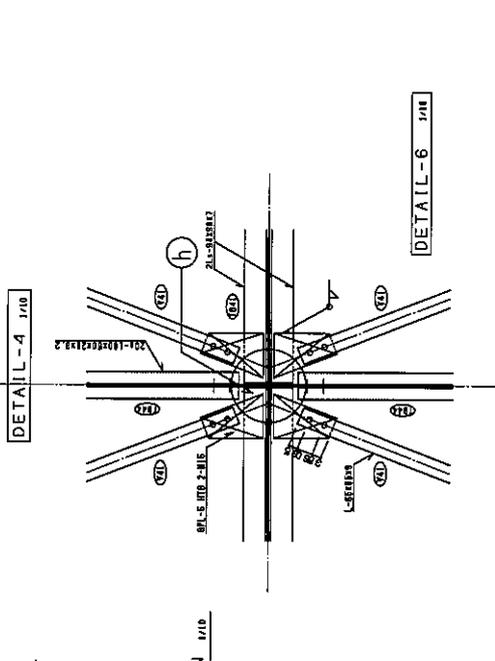
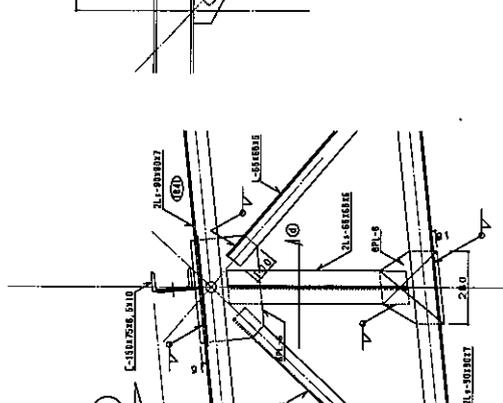
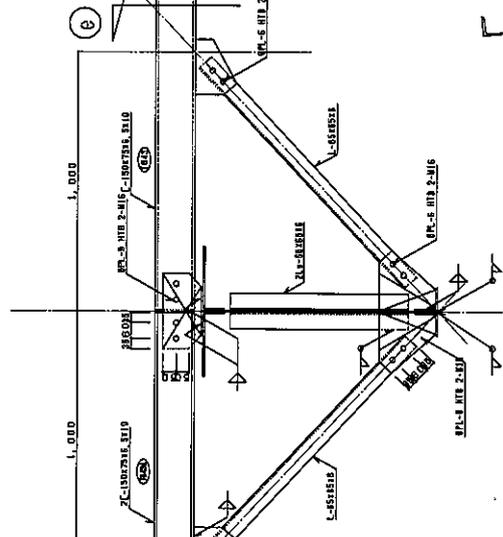
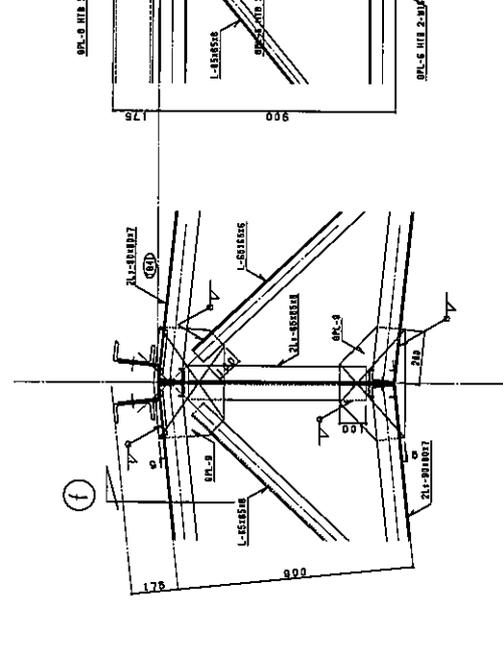
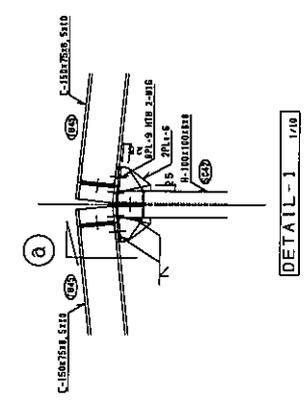
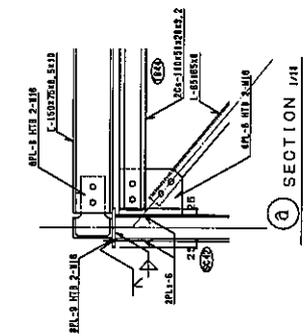
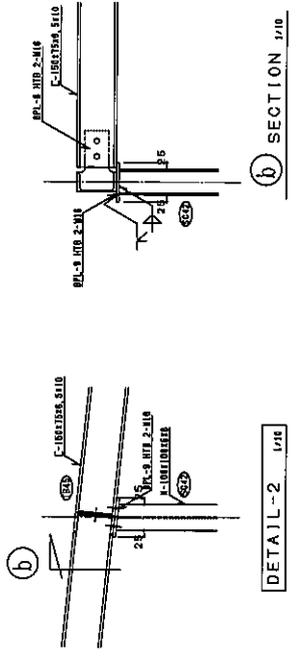


SECTION 1/11



M MOHRI, ARCHITECT & ASSOCIATES, INC. HEAD OFFICE: MOHRI BUILDING, 1000 N. MOHRI AVENUE, SUITE 100, JARVIS, TEXAS 76781 TEL: 817-521-1000 FAX: 817-521-1001 MOBILE OFFICE: SUITE 100, 1000 N. MOHRI AVENUE, JARVIS, TEXAS 76781 TEL: 817-521-1001 FAX: 817-521-1001	PROJECT NAME THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE' IN THE REPUBLIC OF MALDIVES	DRAWING TITLE STEEL ROOF TRUSS DETAIL-2 (SCHOOL HALL)	DRAWN BY CHECKED BY APPROVED BY	DATE 7/20/2011	NO. S-037
	SCALE 1:10 1:30				

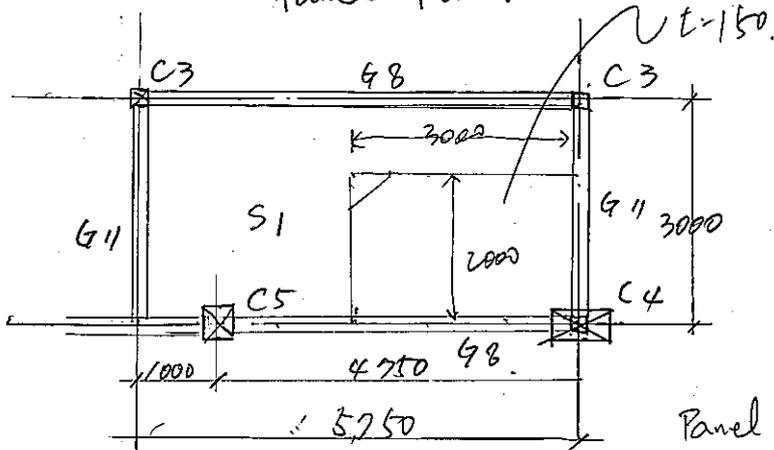
KTN-88



M MOHRI, ARCHITECT & ASSOCIATES, INC. <small>MOHRI ARCHITECTS BUILDING, 156 MILLER AVENUE, SUITE 1100, ALABAMA STATE CAPITOL BUILDING, 1000 N. ALABAMA AVENUE, MONTGOMERY, AL 36103-0000 TEL: 205-261-4444 FAX: 205-261-4444 WWW.MOHRI.COM</small>	PROJECT NAME THE PROJECT FOR CONSTRUCTION OF THE SECOND GIRLS SECONDARY SCHOOL IN MALE' IN THE REPUBLIC OF MALDIVES	DRAWING TITLE STEEL ROOF TRUSS DETAIL-3 (SCHOOL HALL)	DRAWN BY N. MOHRI	DATE 2023	NO. S-038
	SCALE 1:6 1:10	CHECKED BY N. MOHRI	APPROVED BY N. MOHRI		

KTN-89

4. Kalkulasi Scaff
Panel Foundation



Foundation $h=120$ $2.88 \frac{kN}{m^2} \times 3 \times 2 = 17.4$
 Panel 20

37.4

$37.4 / 5.58 \times 3 = 2.17 \frac{kN}{m^2}$

SLAB $t=120$ $2.9 \frac{kN}{m^2}$
 water proof. $1.0 \frac{kN}{m^2}$

for support slab. confirmation

Total $6.1 \frac{kN}{m^2}$

$M_{x1} = 0.078 \times 6.1 \times 3.0^2 = 4.3 \frac{kNm}{m}$

$Q = 0.52 \times 6.1 \times 3 = 9.6 \frac{kN}{m}$

$M_{y1} = 0.052 \times 6.1 \times 3.0^2 = 2.9$

$M_{y2} = 0.048 \times 6.1 \times 3.0^2 = 2.7$

$t=120$ $d=90$ $f_c=178.75$ $f_t=196$

$a_{tx} = 4.3 \times 10^6 / (196 \times 178.75) = 299 \text{ mm}$

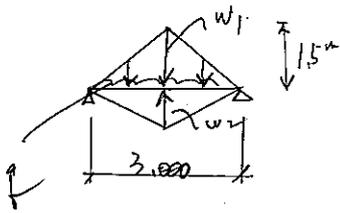
D10@200 $71.3 \times 5 = 356$

$a_{ty} = 2.7 \times 10^6 / (196 \times 90) = 197 \text{ mm}$

"

$\tau = 9.6 \times 10^3 / (1000 \times 178.75) = 0.13 < 0.7$

OK



$$w_1 = \text{Panel.} = (2.0/6 + 2.88) \times 1.5 = 9.32 \text{ kN/m}$$

$$w_2 = (2.9 + 1.0) \times 1.5 \times 2 = 11.7 \text{ kN/m}$$

$$q = 0.25 \times (0.45 - 0.12) \times 24 = 2.0 \text{ kN/m}$$

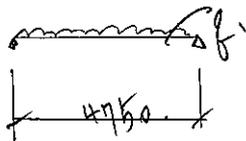
$$M_c = \frac{1}{12} \times 21.02 \times 3.0^2 + \frac{1}{8} \times 2.0 \times 3.0^2 = 18.1 \text{ kNm}$$

$$Q = \frac{1}{4} \times 21.02 \times 3.0 + \frac{1}{2} \times 2.0 \times 3.0 = 18.8 \text{ kN}$$

(G11) 250 x 450 d = 400 f = 350

$$a_t = \frac{18.1 \times 10^6}{285 \times 350} = 241 \text{ mm} \rightarrow 2-D19 \quad 573 \text{ mm}^2 \quad \text{OK}$$

$$\tau = \frac{18.8 \times 10^3}{250 \times 350} = 0.22 < 0.7 \quad \text{OK}$$



$$q_1 = 6.1 \text{ kN/m}^2 \times 1.5 \text{ m} + 0.25 \times (0.65 - 0.12) \times 24 = 12.4 \text{ kN/m}$$

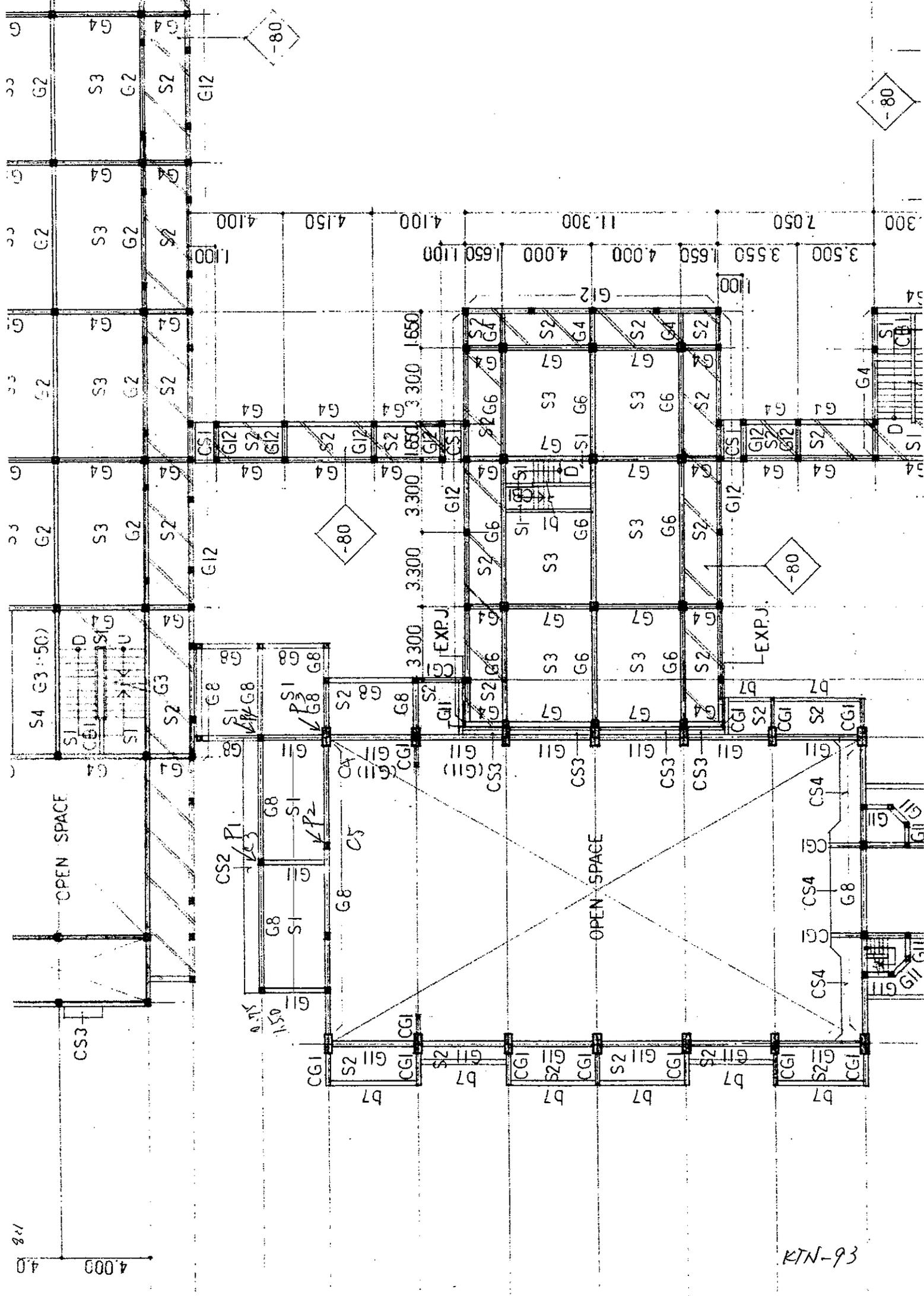
$$M = \frac{1}{8} \times 12.4 \times 4.75^2 = 35 \text{ kNm}$$

$$Q = \frac{1}{2} \times 12.4 \times 4.75 = 30 \text{ kN}$$

(G8) 250 x 650 d = 600 f = 525

$$a_t = \frac{35 \times 10^6}{215 \times 525} = 311 \text{ mm} \rightarrow 3-D22 \quad (974 \text{ mm}^2) \quad \text{OK}$$

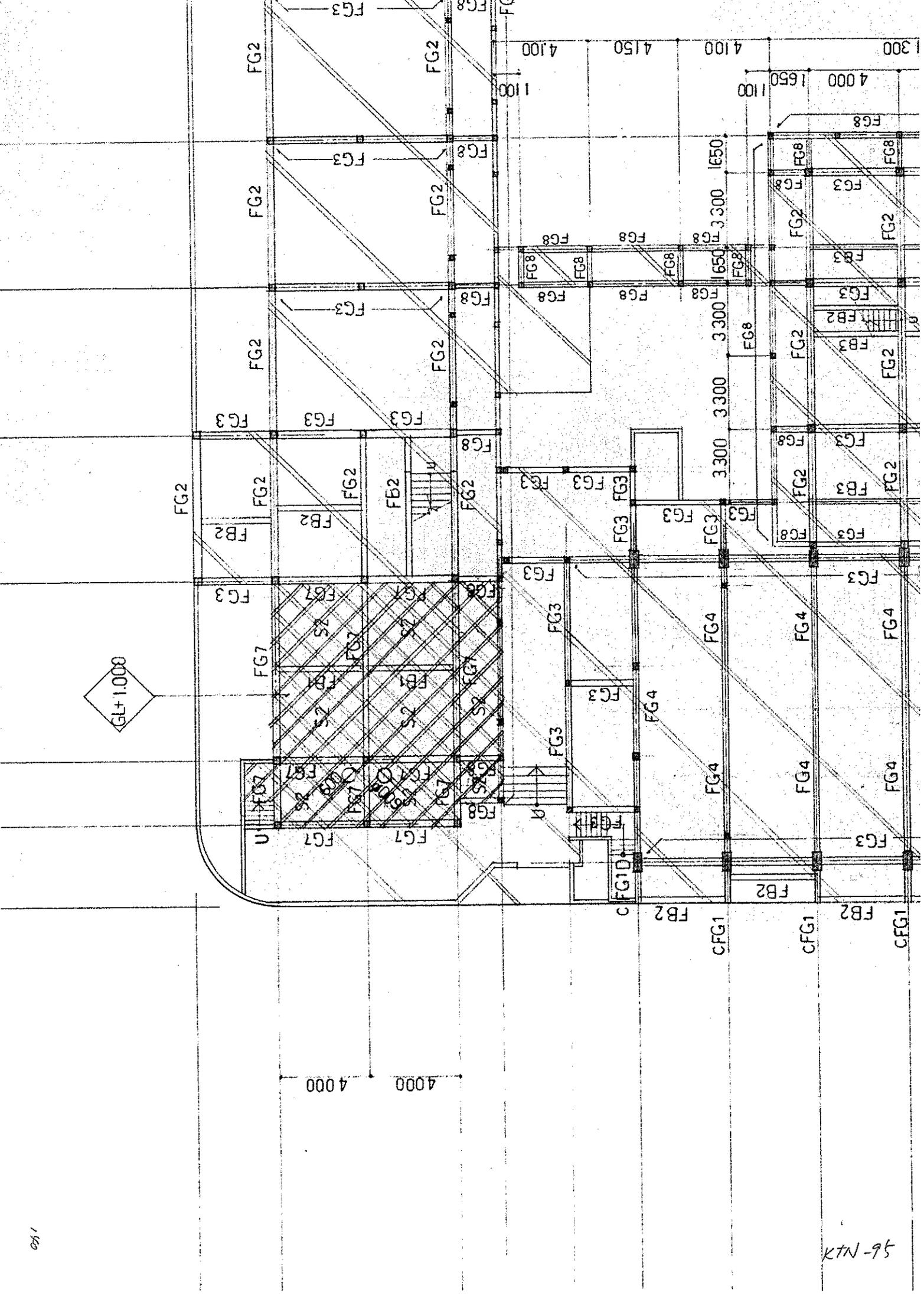
$$\tau = \frac{30 \times 10^3}{250 \times 525} = 0.23 < 0.7$$

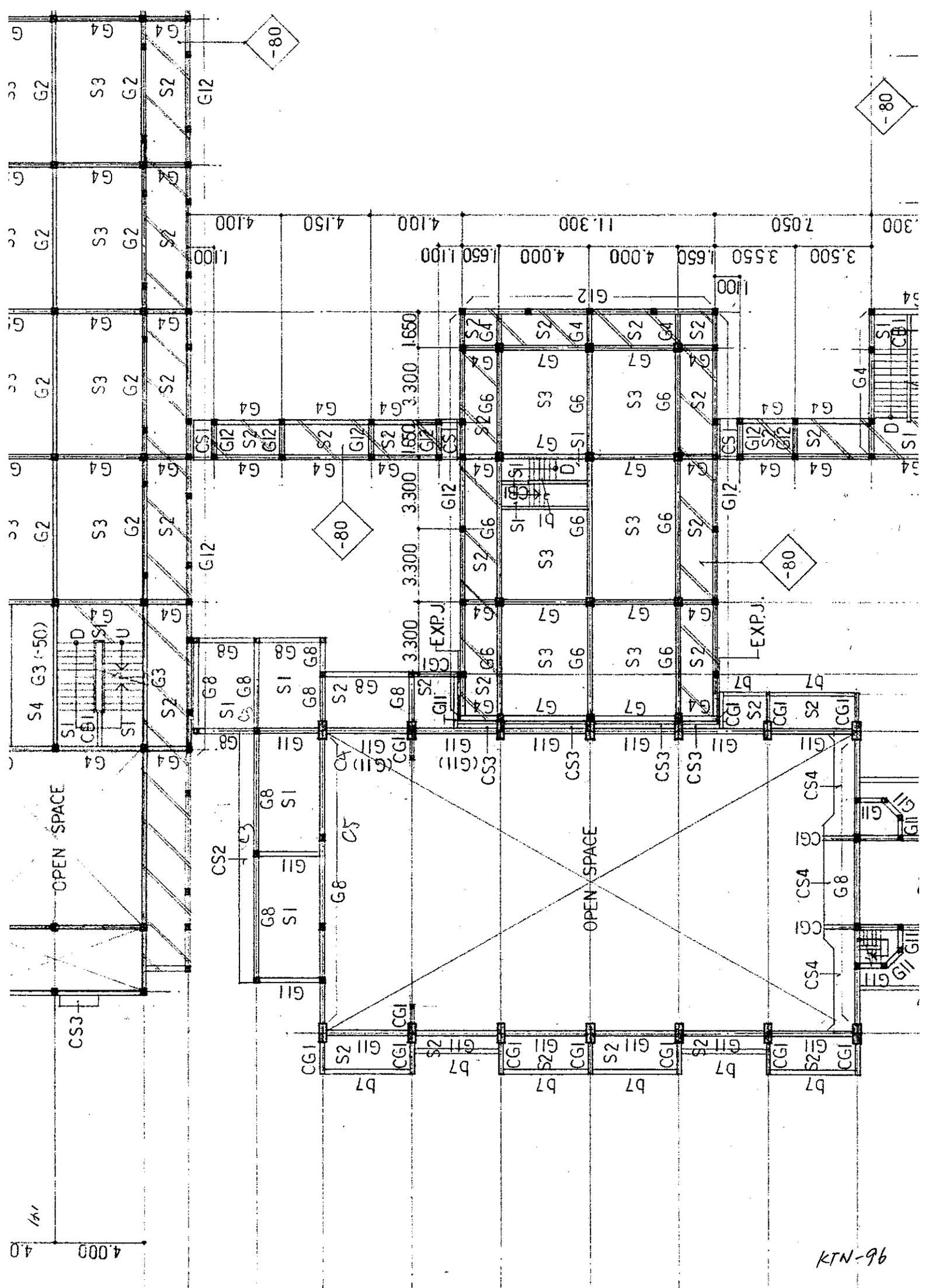


4000
40

68-NTR

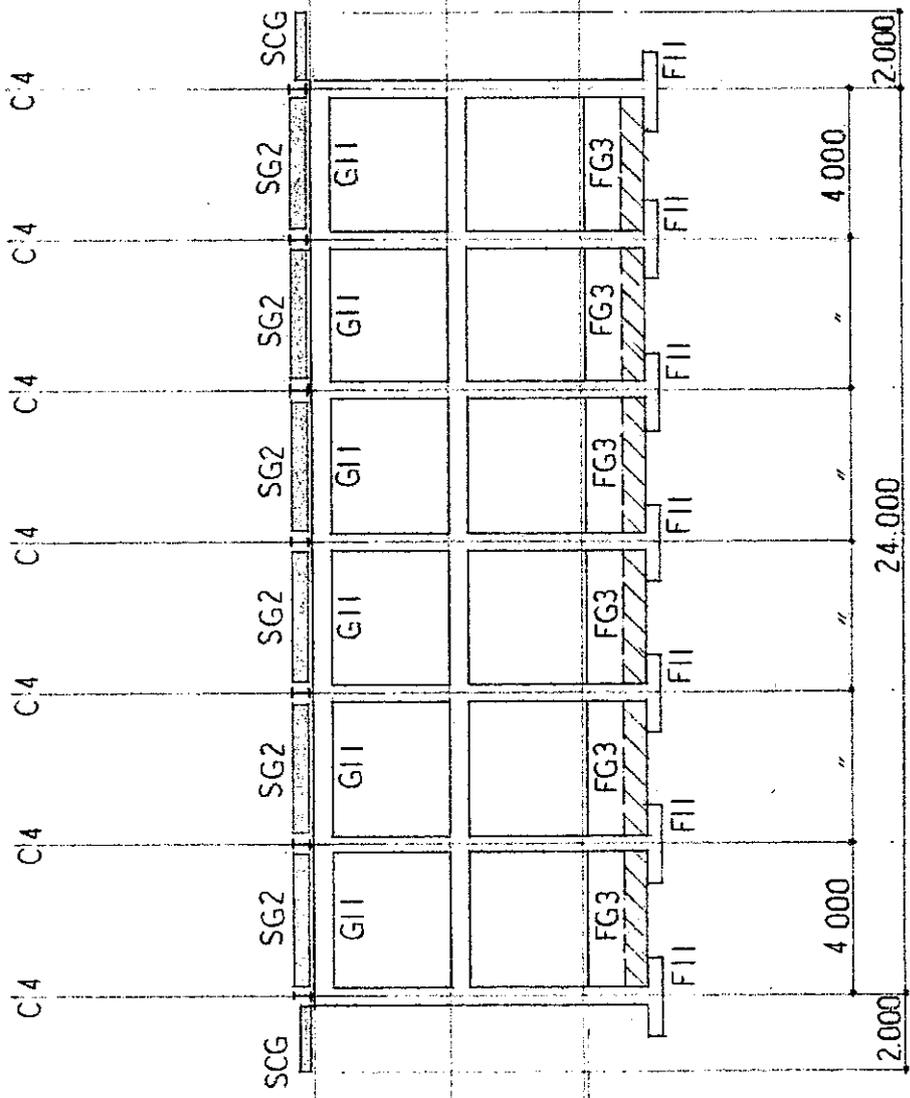
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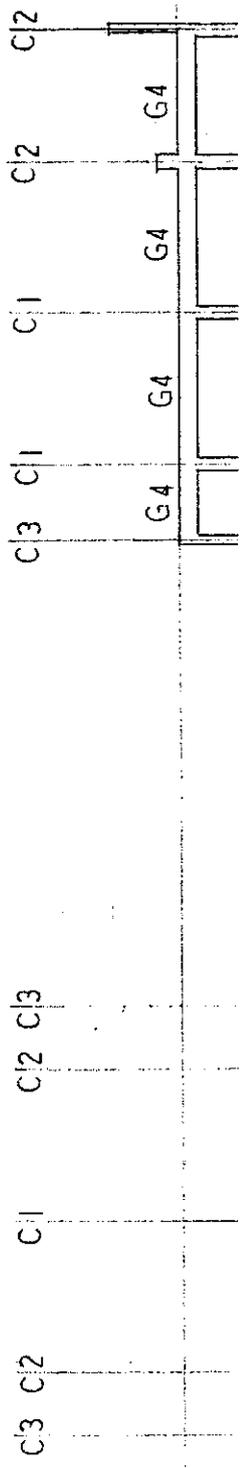
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KTN-96



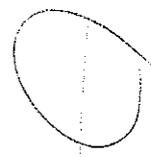
- 4
- 5
- 7
- 8
- 9
- 10
- 11

A - FRAMING ELEVATION S = 1:200



201

150



KTN-97

NUMBER	A	B	H	a	b
F1	3,800	3,800	500	20 - D19	20 - D19
F2	3,300	3,300	500	17 - D19	17 - D19
F3	3,100	3,100	500	16 - D19	16 - D19
F4	2,800	2,800	400	14 - D19	14 - D19
F5	2,600	2,600	400	13 - D16	13 - D16
F6	2,700	4,500	500	16 - D22	22 - D16
F7	2,500	3,200	400	12 - D19	16 - D16
F8	2,000	3,500	400	12 - D19	18 - D16
F9	2,000	3,000	350	16 - D16	16 - D16
F10	2,000	2,600	350	14 - D16	14 - D16
F11	2,200	2,200	300	12 - D16	12 - D16
F12	2,000	2,000	300	12 - D16	12 - D16
F13	1,800	1,800	300	11 - D16	11 - D16
F14	1,500	1,500	250	8 - D13	8 - D13
F15	1,200	1,200	250	7 - D13	7 - D13
F16	1,100	6,600	250	10 - D16	D13 @ 200

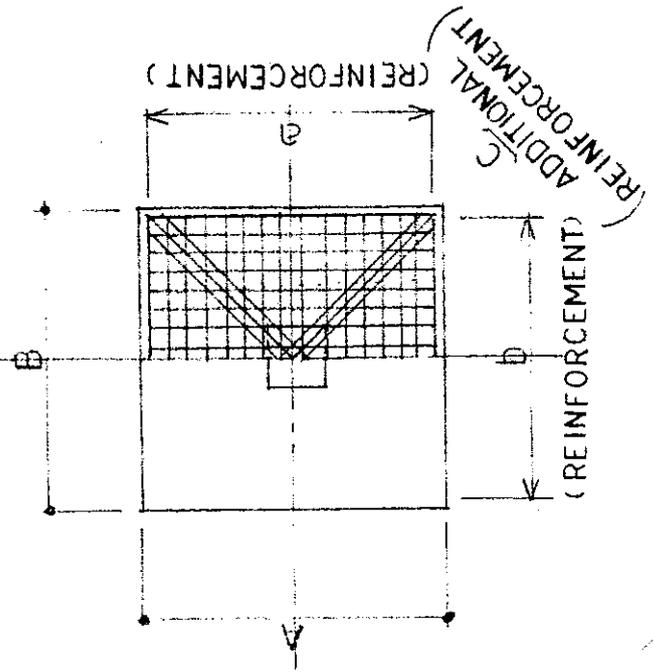
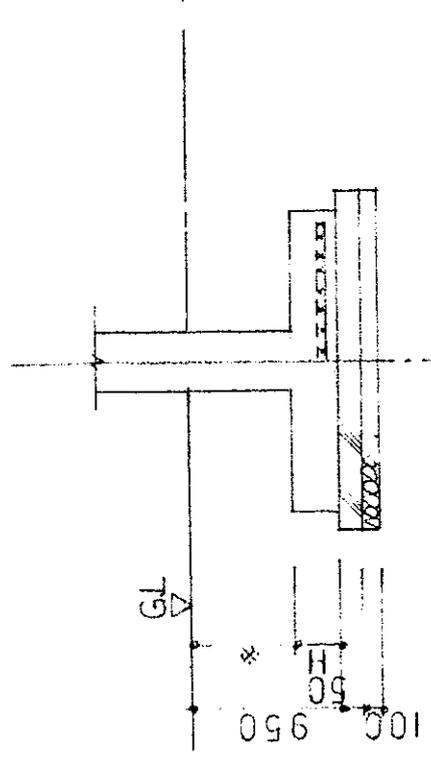
D

D

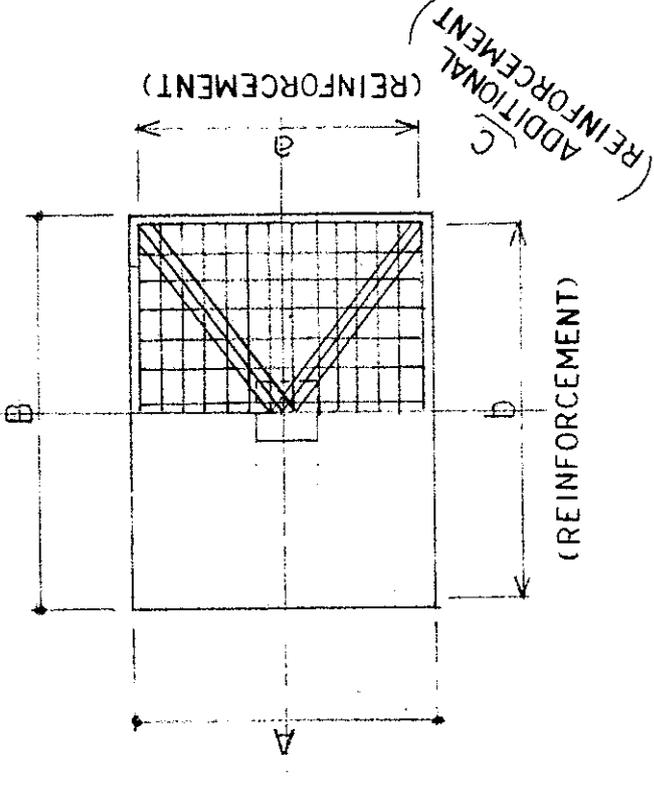
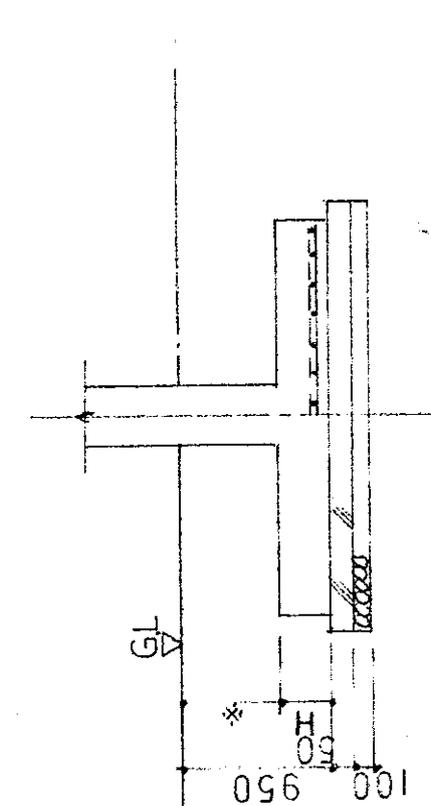
C

141

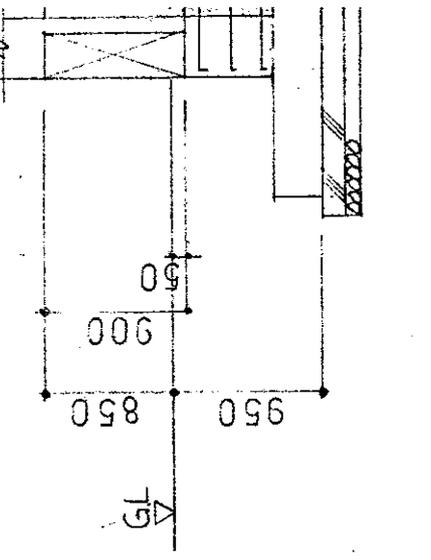
SQUARE FOOTING



RECTANGULAR FOOTING



ADDITIONAL C



4	3	4	3	2
4	3	4	3	2
gnr	□ - D10 @ 150			
250 x 500	250 x 550	250 x 650	250 x 650	200 x 300
D22	D22	D22	D22	D16
4	5	5	5	2
2	3	3	3	2
4	5	5	5	
2	3	3	4	
□ - D10 @ 150	□ - D10 @ 150			
1				
250 x 650	250 x 650	250 x 550	250 x 450	200 x 300
D22	D22	D22	D19	D16
3	3	3	2	2
2	3	3	2	2
3	3	3	2	
□ - D10 @ 150	□ - D10 @ 150	□ - D10 @ 200		
1				
250 x 650	250 x 650	250 x 550	250 x 450	200 x 300
D22	D22	D22	D19	D16
3	3	3	2	2
2	3	3	2	2
3	3	3	2	
□ - D10 @ 150	□ - D10 @ 150	□ - D10 @ 200		
1				

2 FLOOR

98

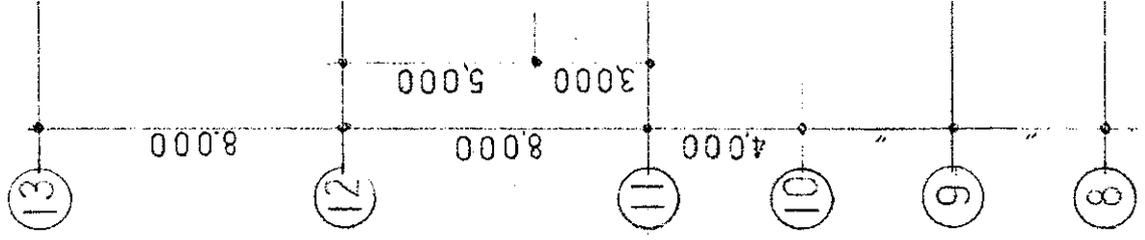
911

KTN-101

SLAB LIST

S = 1: 40

NUMBER	S1	S2	S3
DIRECTION	SHORT DIRECTION	SHORT DIRECTION	SHORT DIRECTION
SECTION	<p>D1C@200 L10@200</p>	<p>D1C@200 L10@250</p>	<p>D10-D13@200 L10@200 L10@200</p>
NUMBER	FS1	FS2	
DIRECTION	SHORT DIRECTION	SHORT DIRECTION	SHORT DIRECTION
SECTION	<p>D19@150 D19@150 L10@200 L19@200</p>	<p>D16@200 L10@200</p>	



00	300 x 300	200 x 200					
-D13	°4-D22 *4-D16	4-D13					
150	□-D6@150	□-D6@100					
600	◇-D6@600						
00	300 x 300	200 x 200	400 x 800	400 x 400			
-D16	°4-D22 *4-D19	4-D13	14-D22	°4-D22 *4-D19			
150	□-D6@150	□-D6@100	■-D10@200				
600	◇-D6@600			◇-D6@600			
00	300 x 300	200 x 200	400 x 800	400 x 400			
-D16	°4-D22 *4-D19	4-D16	14-D22	°4-D22 *4-D19			
150	□-D6@150	□-D6@150	■-D10@200				
600	◇-D6@600			◇-D6@600			

1 Floor

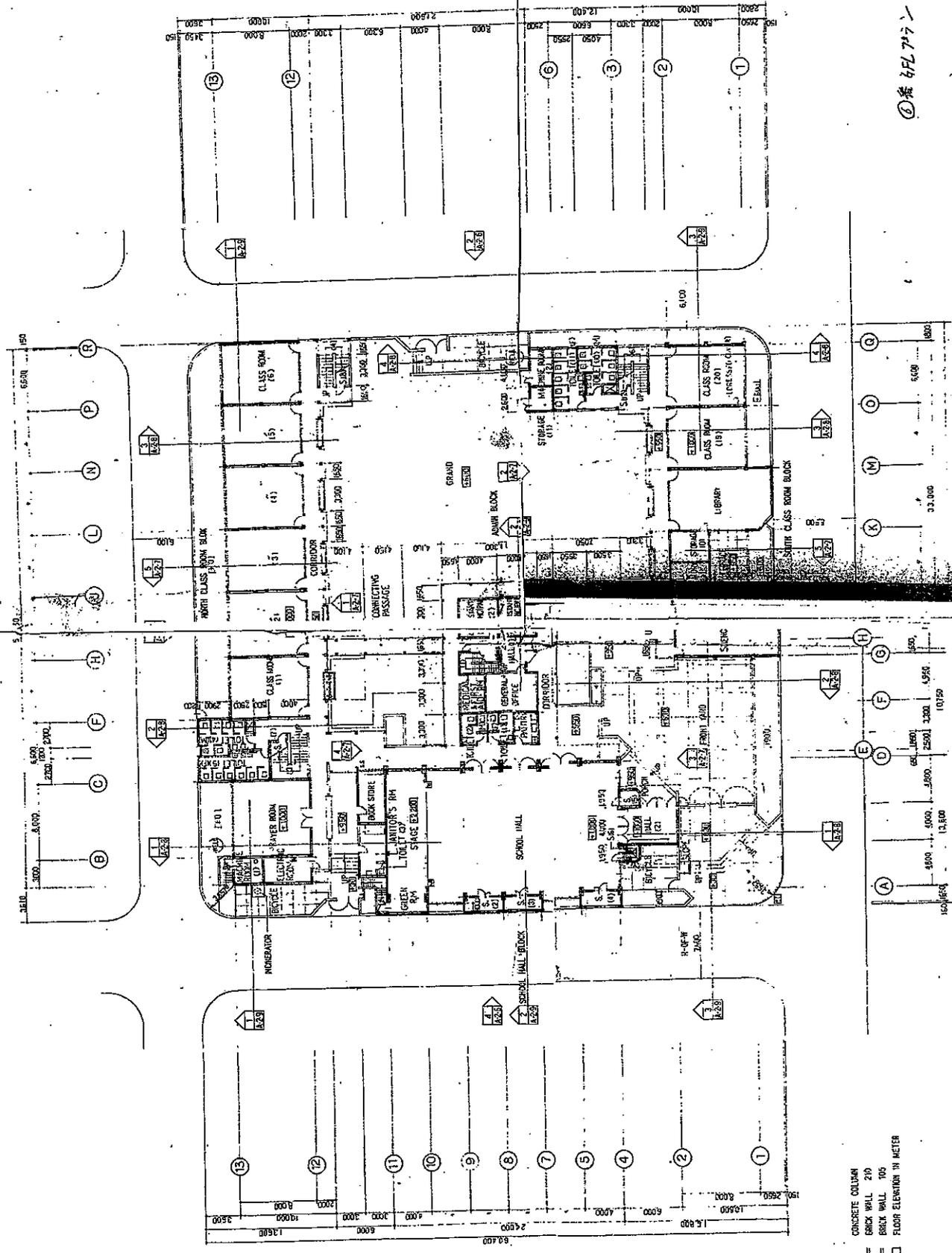
C3
C4
C5

KTN-103

6th



① 巻 4FL プラン



- LEGEND
- CONCRETE COLUMN
 - ▬ BRICK WALL 210
 - ▬ BRICK WALL 105
 - FLOOR ELEVATION IN METER

①

MOHRI ARCHITECT & ASSOCIATES, INC.

KTN-10P

SITE & GROUND FLOOR PLAN

SCALE 1:200

SITE & GR

PLAN

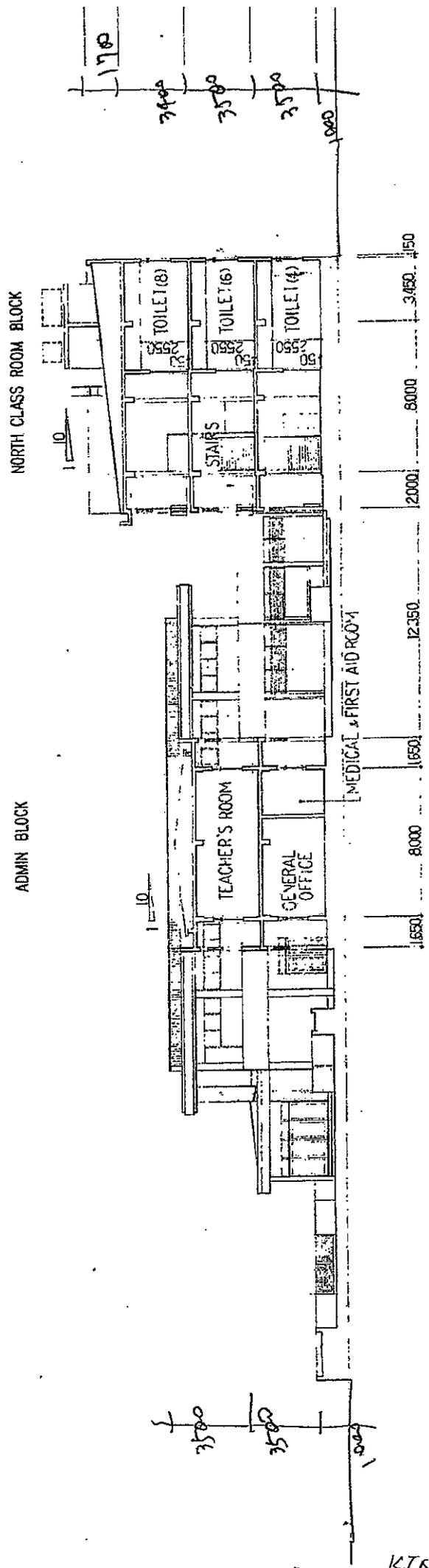
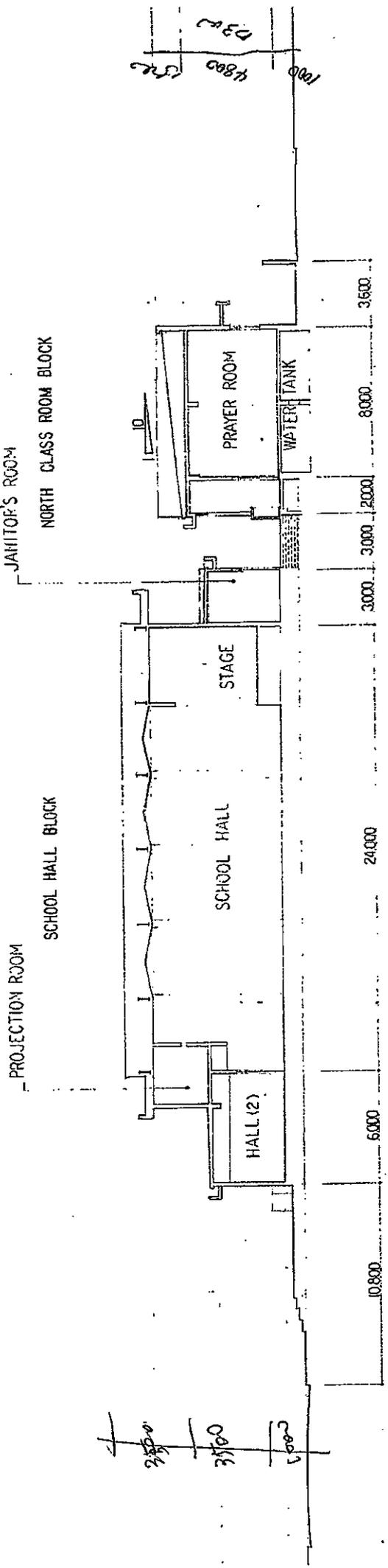
SCALE 1:200

SITE & GR

SCALE 1:200

SITE & GR

6th 7
A-2



No. 7

Center for Social Education

- ・ PV パネルと受け材の重量を 0.5 kN/m^2 とする。
- ・ 既存は小梁、トラス材を確認する。
- ・ 主要構造部材は追加重量が 0.5 kN/m^2 なので安全性に問題はない。

11-2

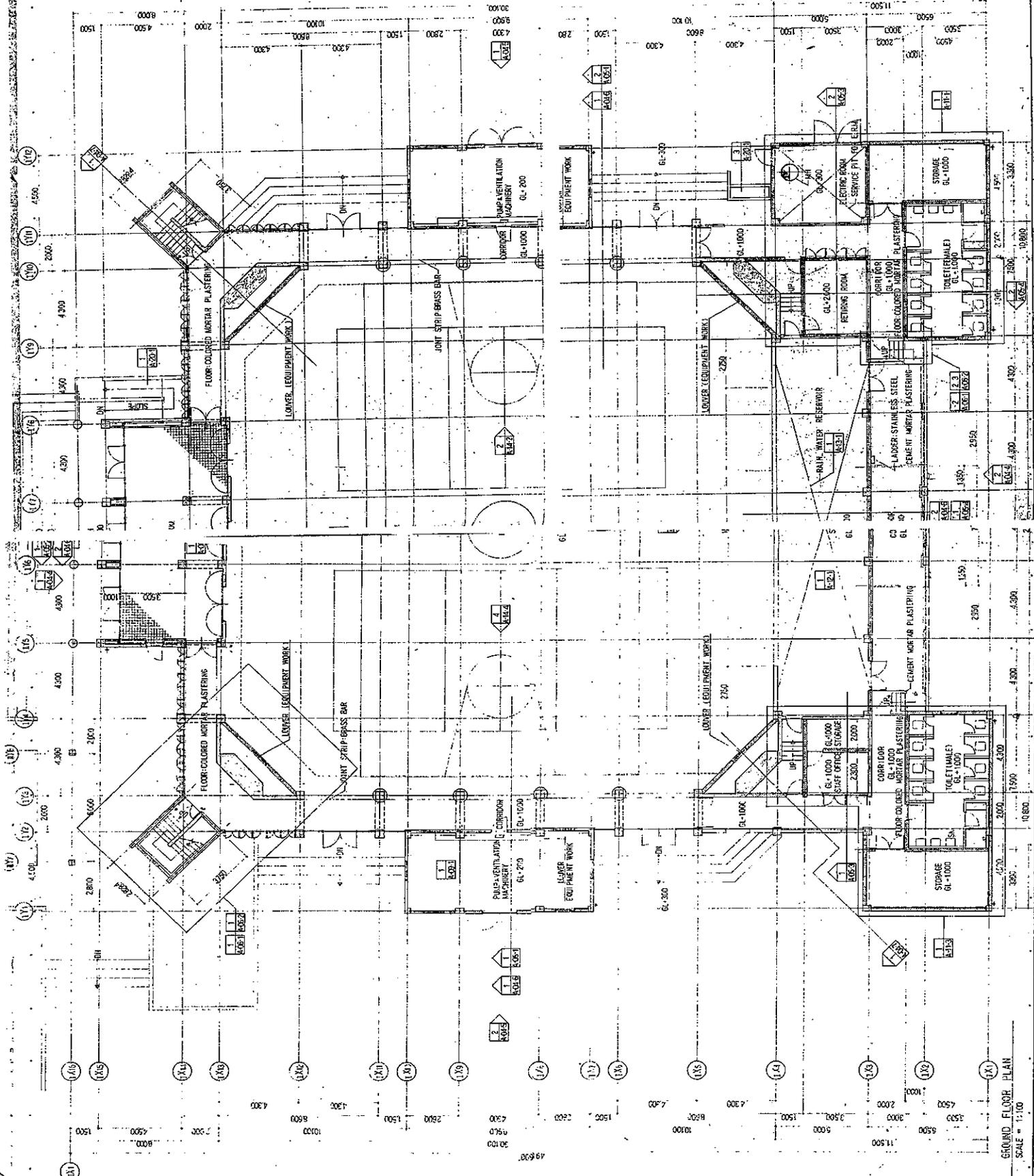
Examination of the existent Building



1. AS-BUILD DWG.

GFL
Plan

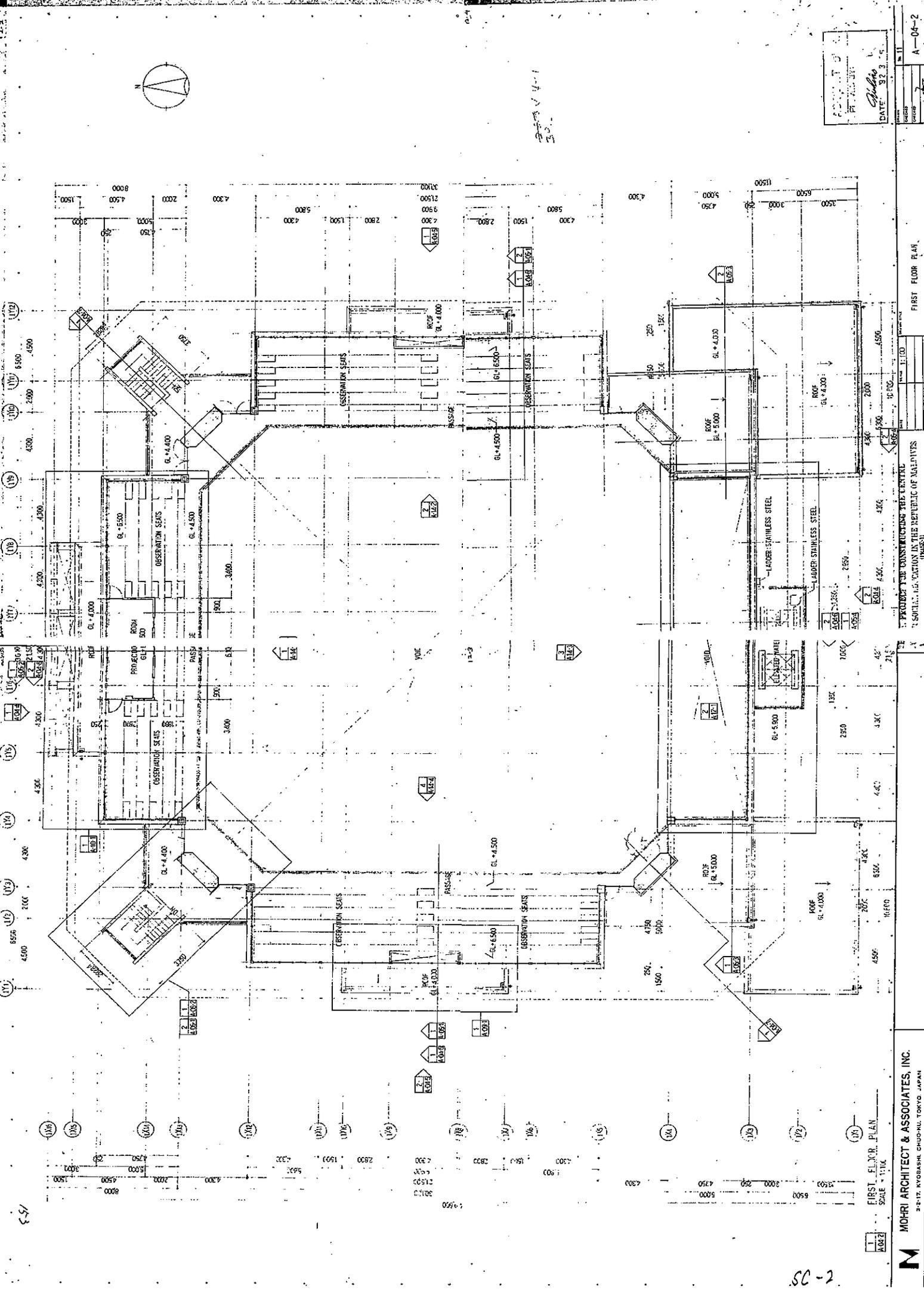
11-4



GROUND FLOOR PLAN
SCALE = 1:100

SC-1

11-4



ACCOUNT NO. _____
 DATE 31.3.11
 A-06-2

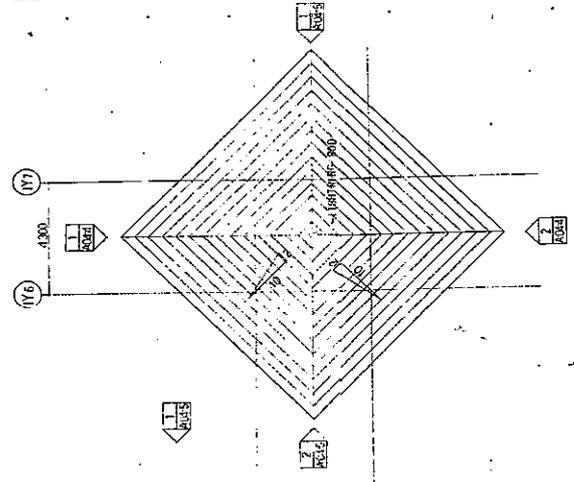
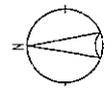
FIRST FLOOR PLAN

PROJECT FOR CONSTRUCTING THE CENTRAL
 SOCIAL HALL IN THE REPUBLIC OF MALAYSIA
 (PHASE 1)

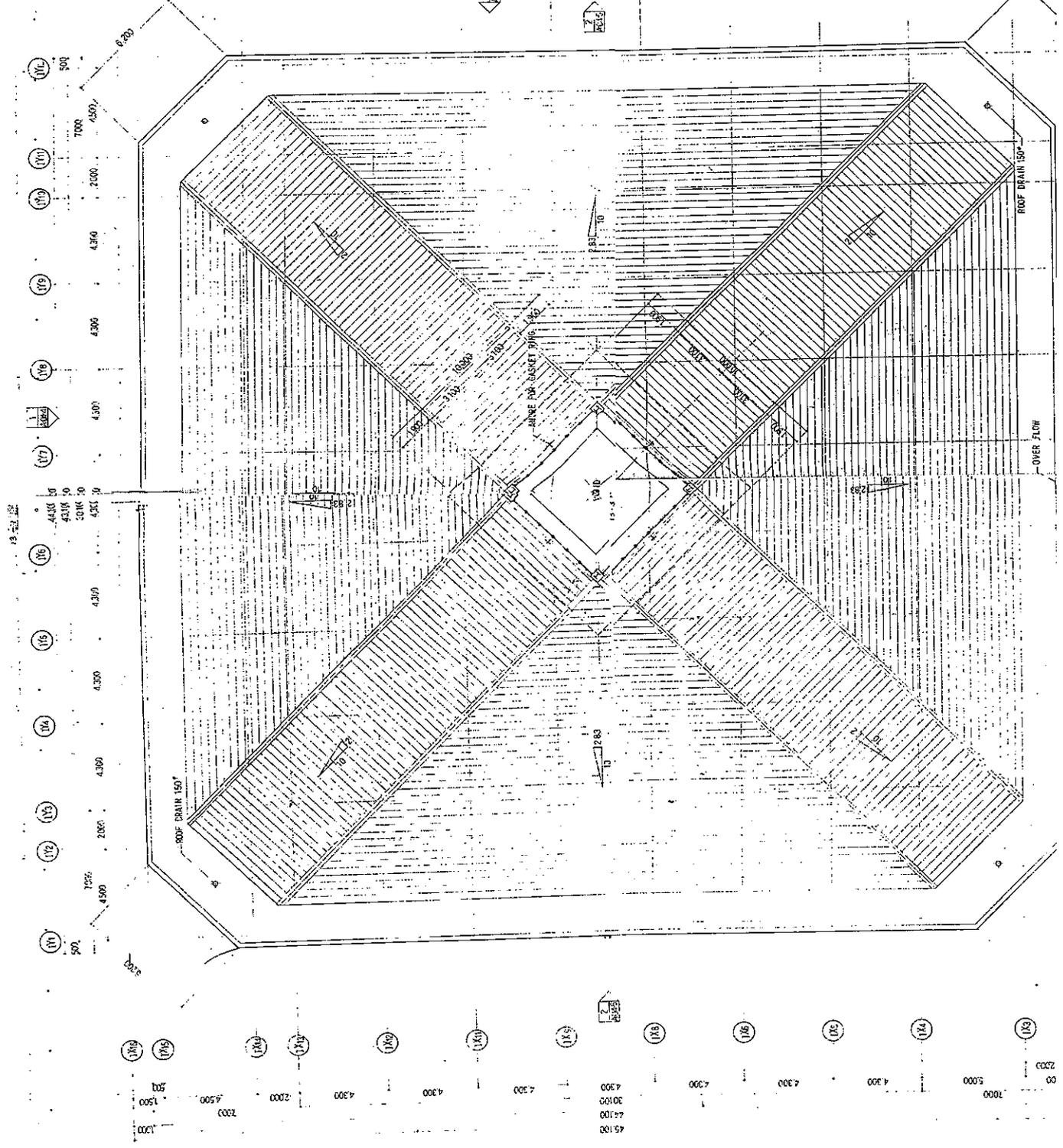
MDHRI ARCHITECT & ASSOCIATES, INC.
 2-217, KYOBASHI, CHUOH-KU, TOKYO, JAPAN

FIRST FLOOR PLAN
 SCALE = 1/100

SC-2



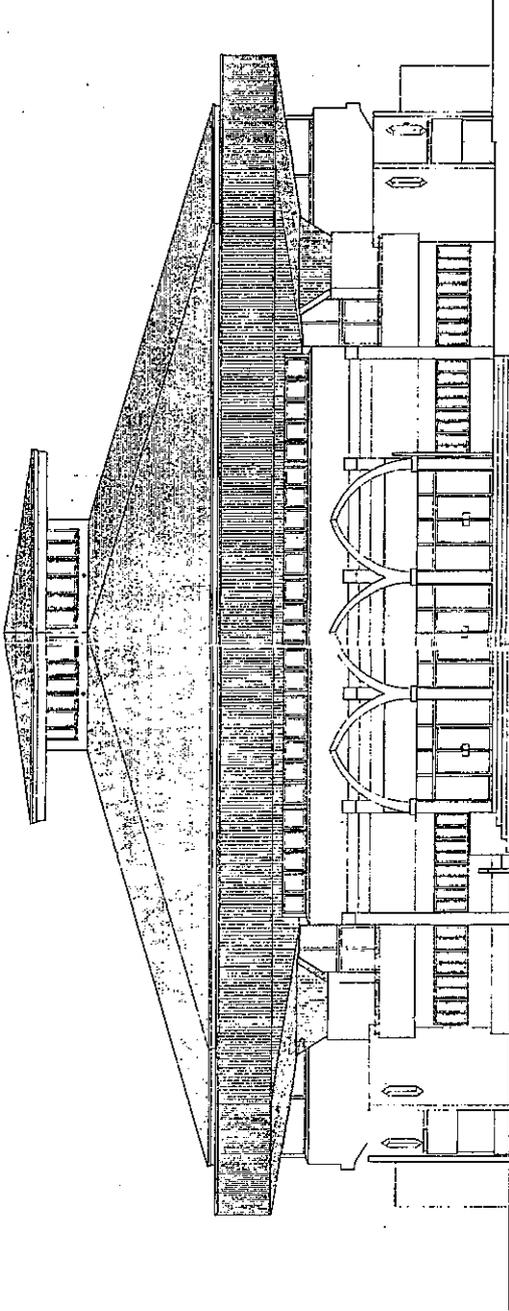
Roof plan



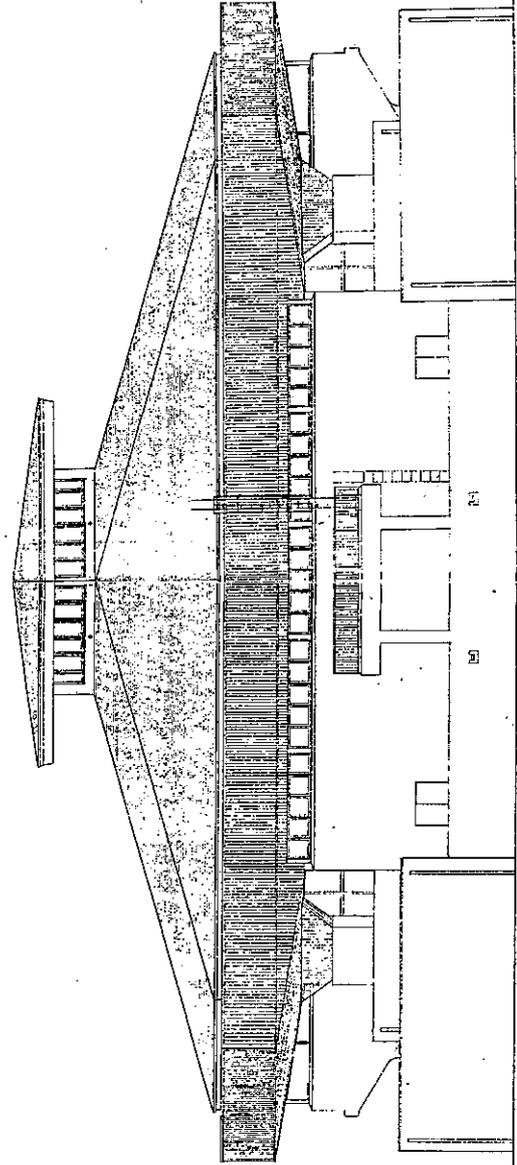
154

18-2

18-2



1 NORTH ELEVATION
SCALE 1/8" = 1'-0"



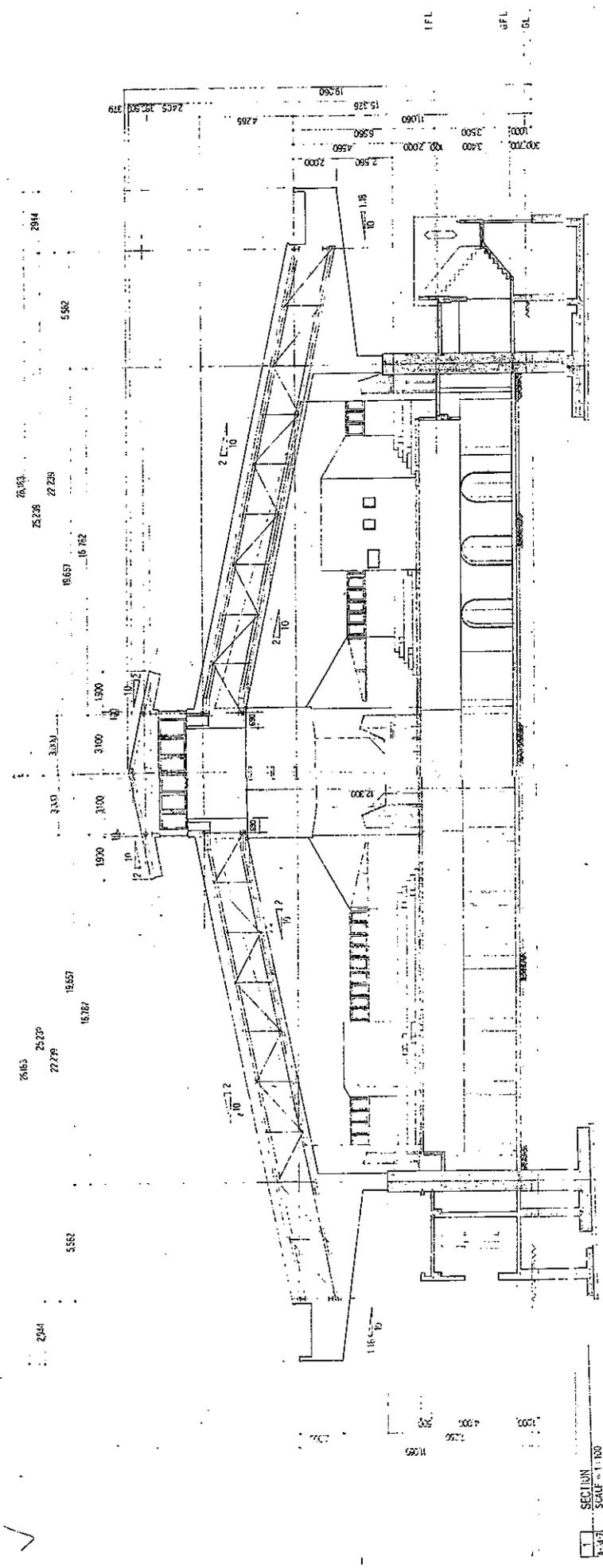
2 SOUTH ELEVATION
SCALE 1/8" = 1'-0"

151

SC-4

Glendon

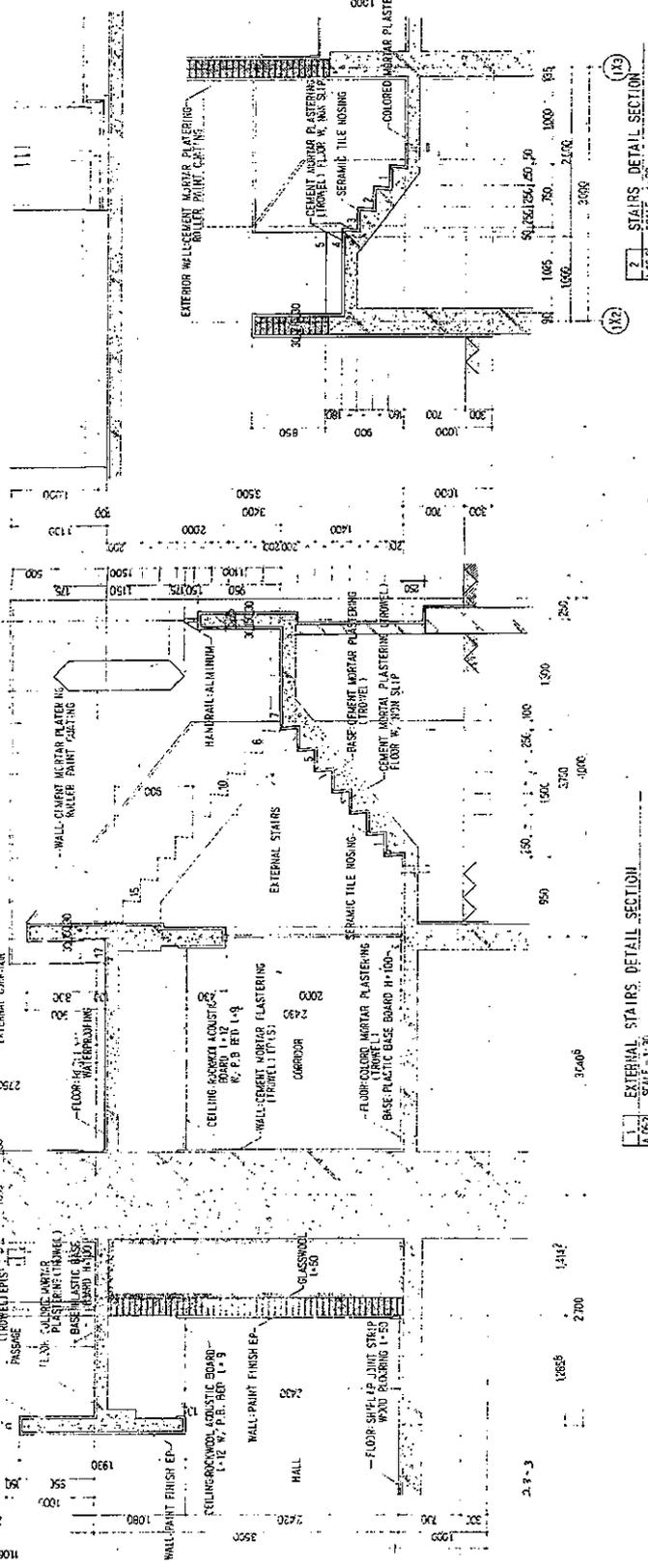
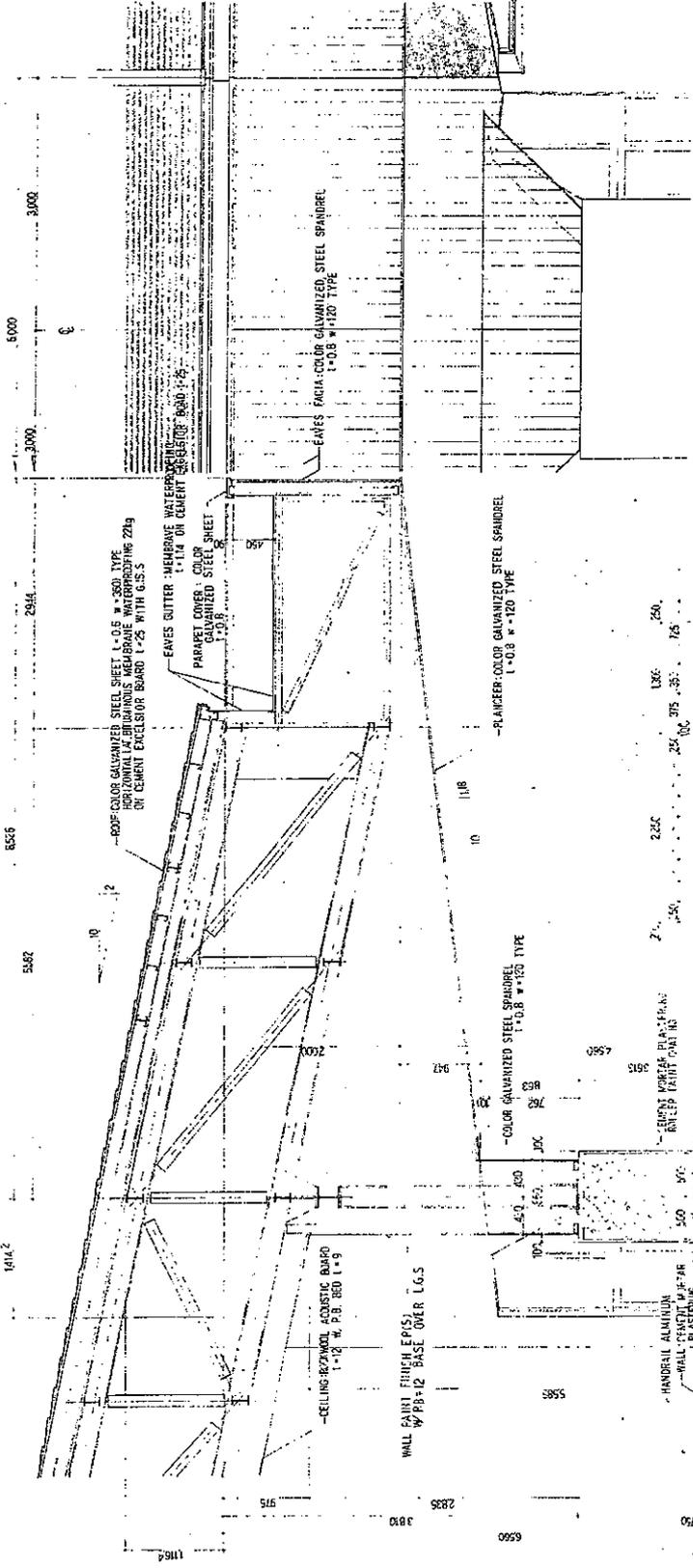
DATE	NO. 13
PROJECT	A -- 04 - 4
REVISION	



Section

641

23-1



SC-6

3 STAIRS DETAIL SECTION
SCALE: 1/32

2 STAIRS DETAIL SECTION
SCALE: 1/32

1 EXTERNAL STAIRS DETAIL SECTION
SCALE: 1/32

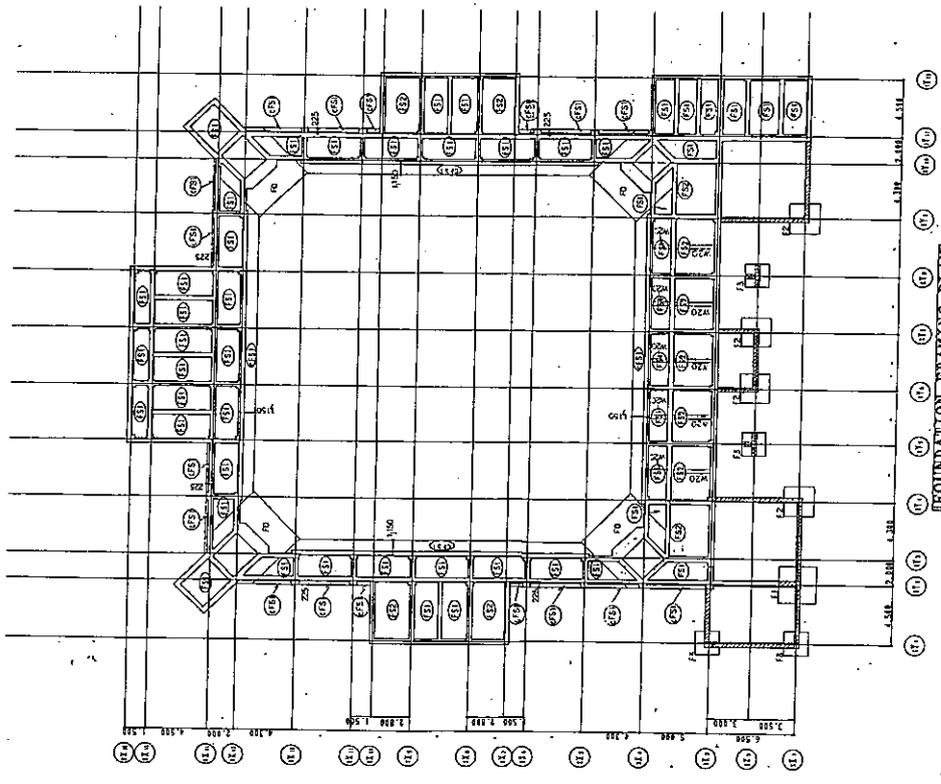
PROJECT FOR: CONSTRUCTING THE CENTRE
OF MAIN IN THE BATHING FACILITIES

STAIR CASE DETAILS NO. 2
A-06-2

M
MOHRI ARCHITECT & ASSOCIATES, INC.
3-2-17, KYOGASHI, CHUO-KU, TOKYO, JAPAN

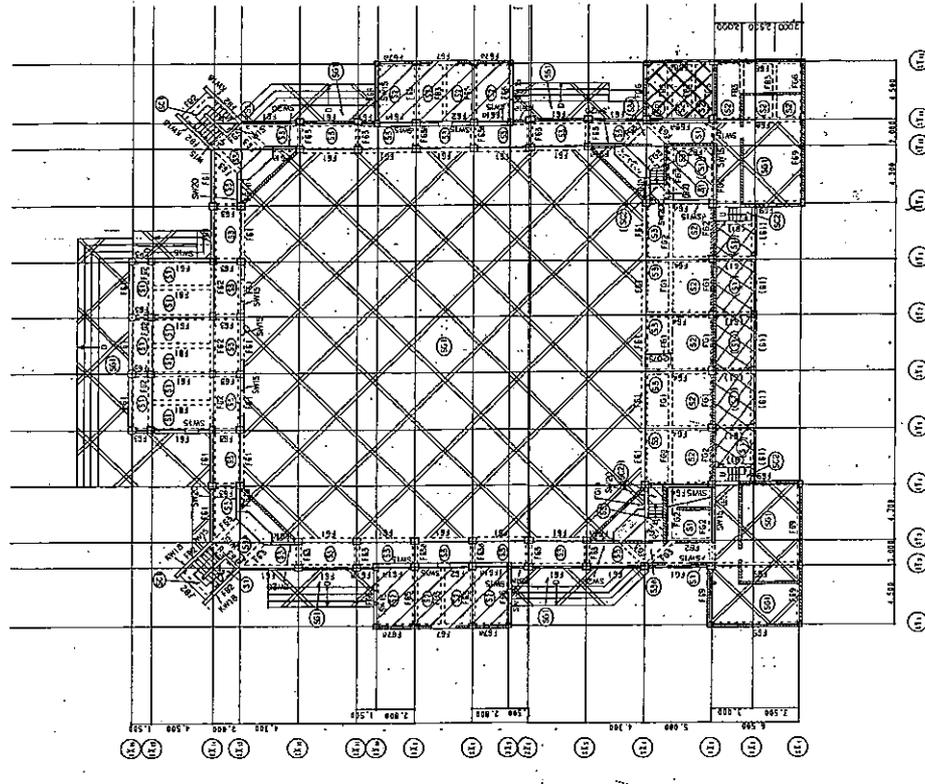
851

1.6



FOUNDATION FRAMING PLAN

- NOTES
1. BOTTOM LEVEL OF THE FOUNDATION C.F.L. - 1500
- LEGEND
- 1. INDICATES ADDITIONAL CONCRETE.



GROUND FLOOR FRAMING PLAN

- NOTES
1. TOP LEVEL OF THE SLAB C.F.L. - 50
- LEGEND
- 1. 20000 INDICATES BRICK WALL OF 600
 - 2. INDICATES REINFORCED CONCRETE WALL.
 - 3. INDICATES ADDITIONAL CONCRETE.
 - 4. INDICATES SLAB-ON-GRADE OF 600
 - 5. INDICATES THAT TOP LEVEL OF THE SLAB IS C.F.L. - 900.
 - 6. INDICATES THAT TOP LEVEL OF THE SLAB IS C.F.L. - 870.
 - 7. INDICATES THAT TOP LEVEL OF THE SLAB IS C.F.L. - 700.
 - 8. INDICATES THAT TOP LEVEL OF THE SLAB IS C.F.L. - 810.
 - 9. () INDICATES THAT THE NUMBER IS LOCATED AT LOWER LEVEL THAN C.F.L.

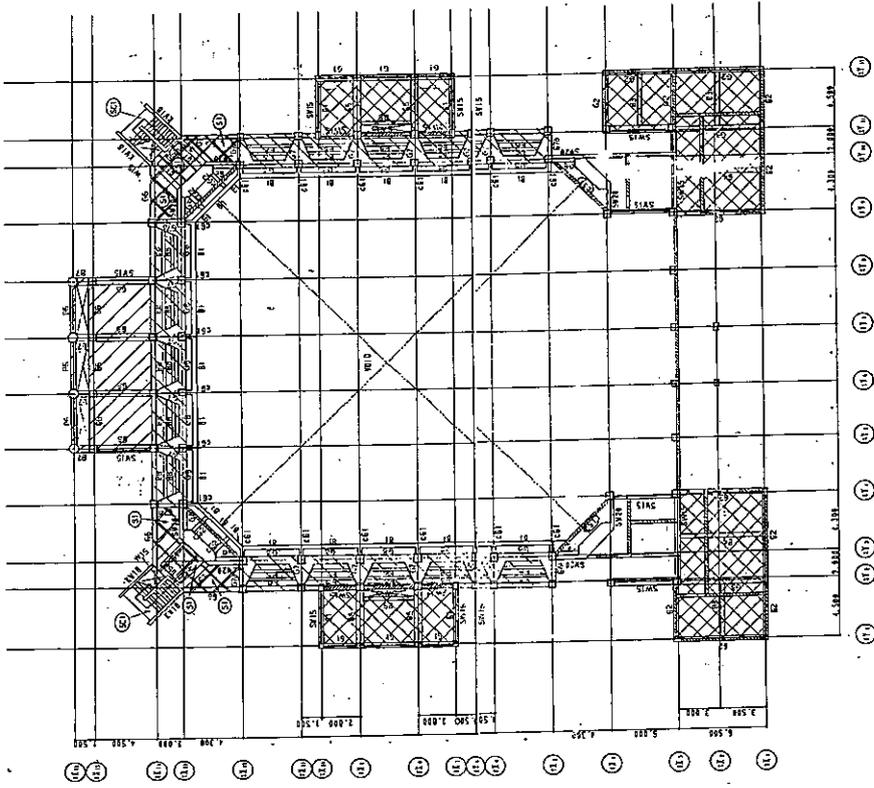
SC-7

SC-7

AS SET OUT

DATE: 9. 2. 5

Mohri



FIRST FLOOR FRAMING PLAN

NOTE 1. TOP LEVEL OF THE SLAB IF.L.L. - 10

2. SLAB

LEGBDS 1. INDICATES BRICK WALL OF (10)

2. INDICATES REINFORCED CONCRETE WALL.

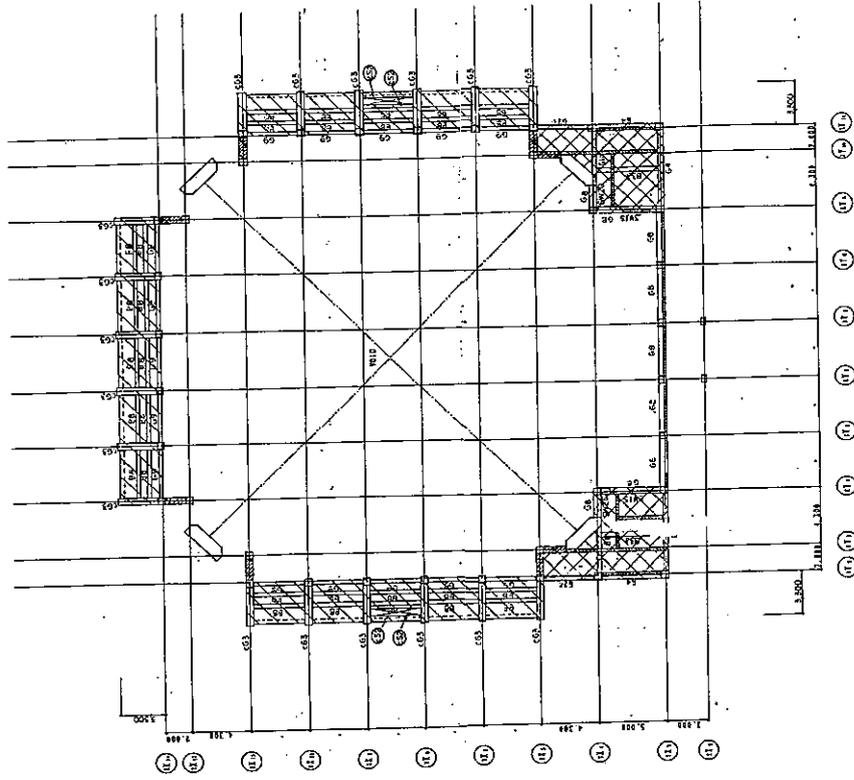
3. INDICATES ADDITIONAL CONCRETE.

4. INDICATES THAT TOP LEVEL OF THE SLAB IS IF.L.L. - 10.

5. INDICATES THAT TOP LEVEL OF THE SLAB IS IF.L.L. - 100.

6. INDICATES THAT TOP LEVEL OF THE SLAB IS IF.L.L. - 500.

7. INDICATES THAT TOP LEVEL OF THE SLAB IS HIGHER THAN IF.L.L. (REFER TO THE DESIGN DRAWINGS.)



GROUND FLOOR + 4000 LEVEL FRAMING PLAN

NOTE 1. SLAB

LEGBDS 1. INDICATES BRICK WALL OF (10)

2. INDICATES REINFORCED CONCRETE WALL.

3. INDICATES ADDITIONAL CONCRETE.

4. INDICATES THAT TOP LEVEL OF THE SLAB IS IF.L.L. - 500.

5. INDICATES THAT TOP LEVEL OF THE SLAB IS HIGHER THAN IF.L.L. - 500. (REFER TO THE DESIGN DRAWINGS.)

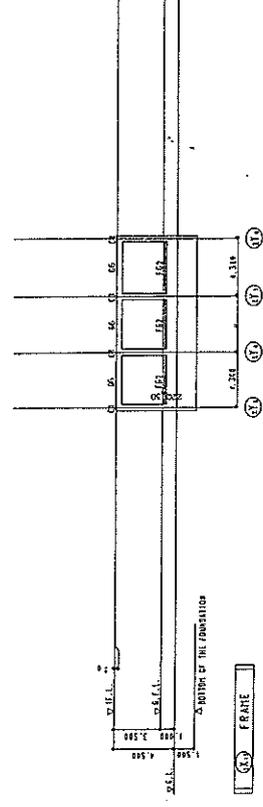
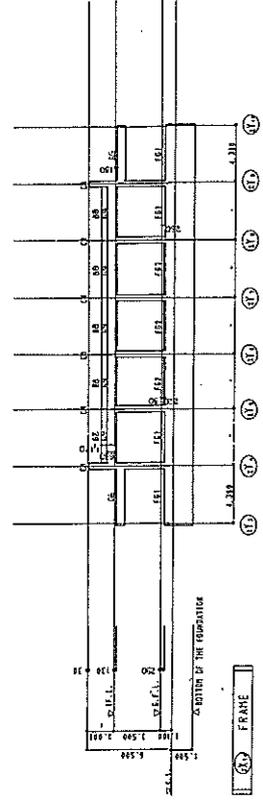
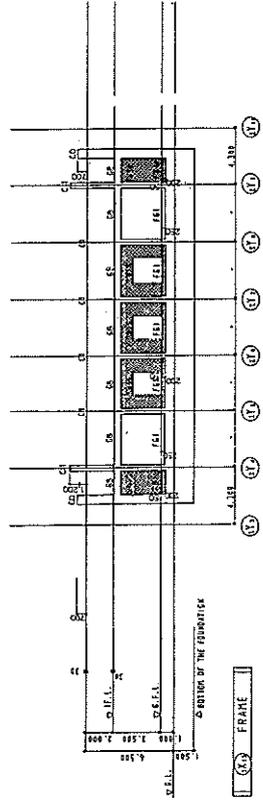
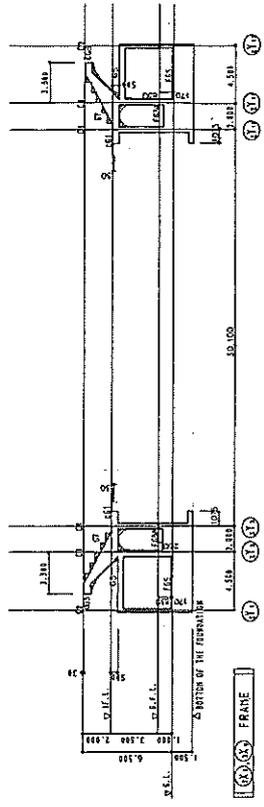
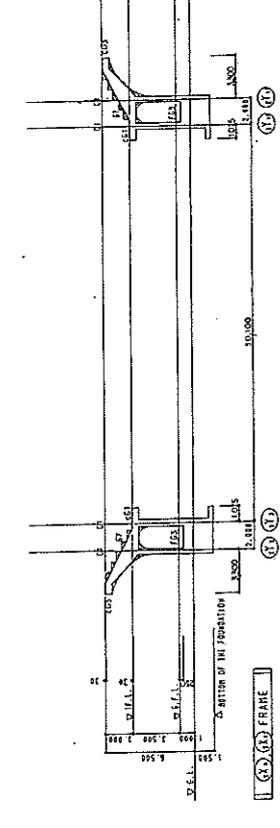
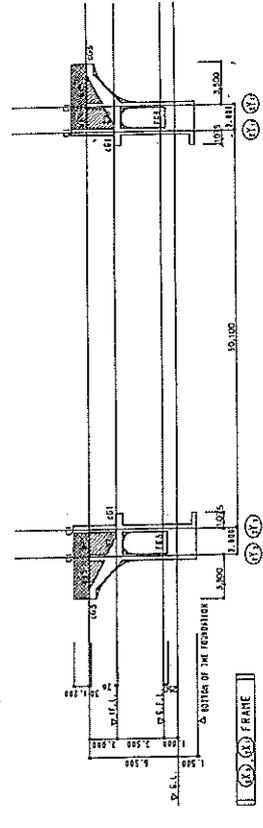
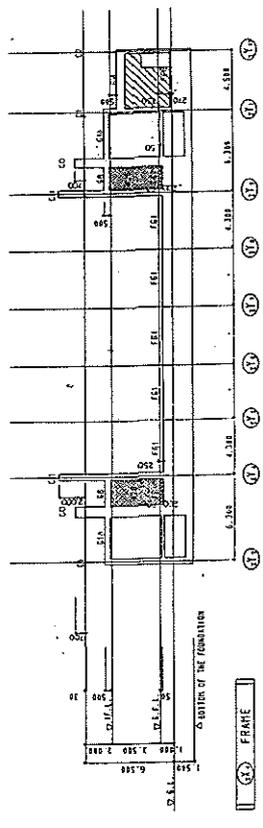
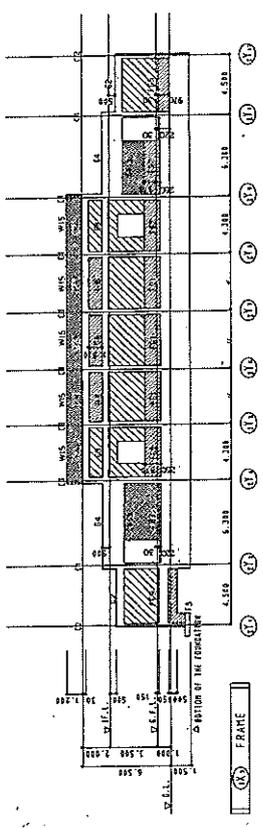
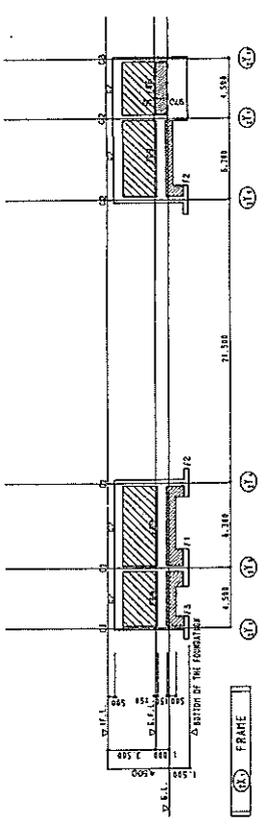
SC-8

AS BUILT DWG.

DATE: 11/15/19
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

SC-8

641

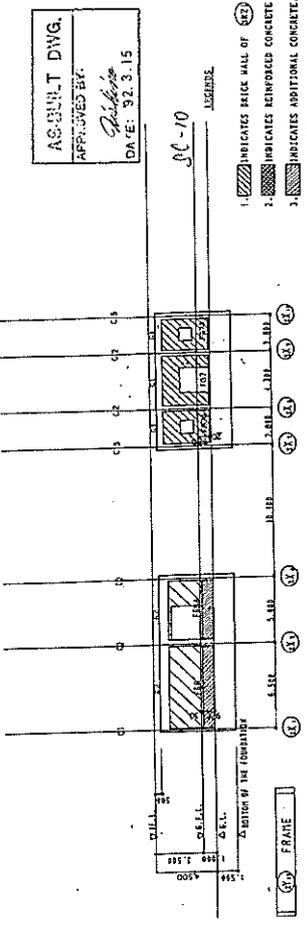
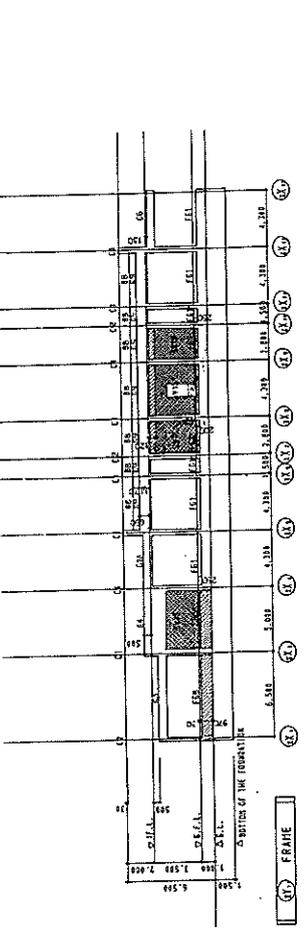
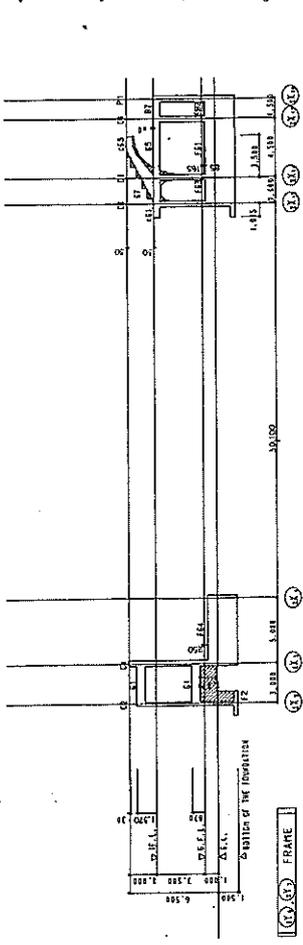
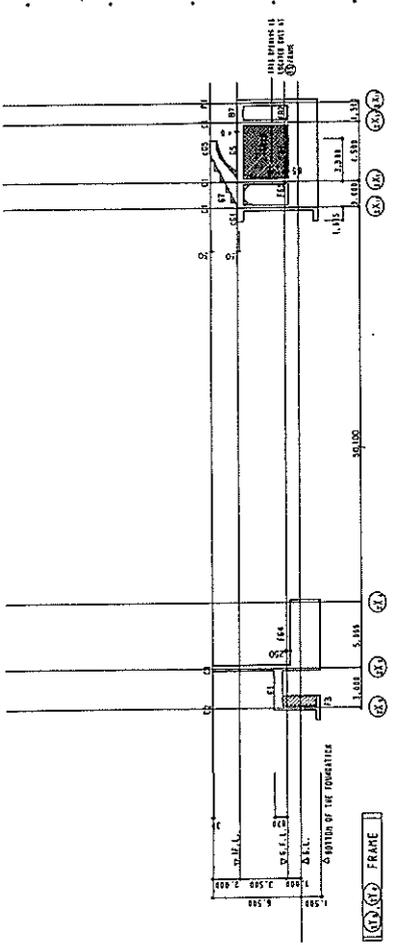
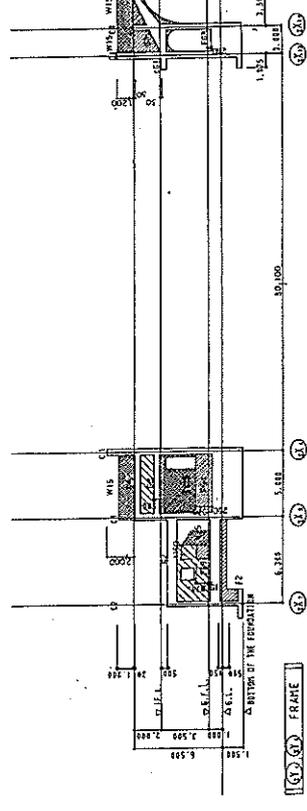
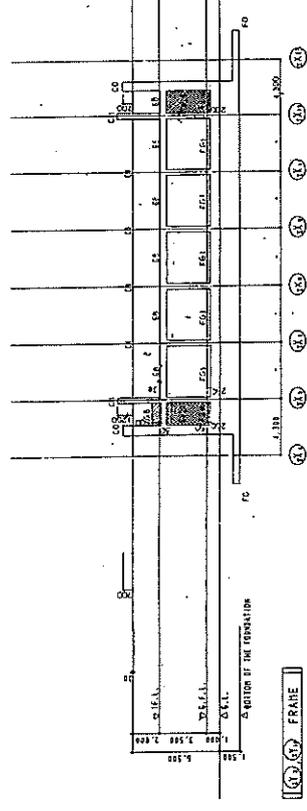
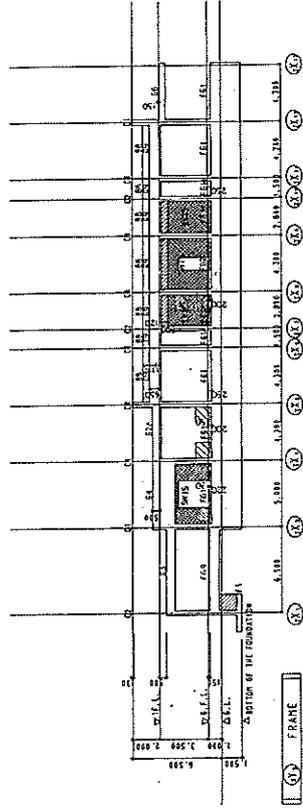
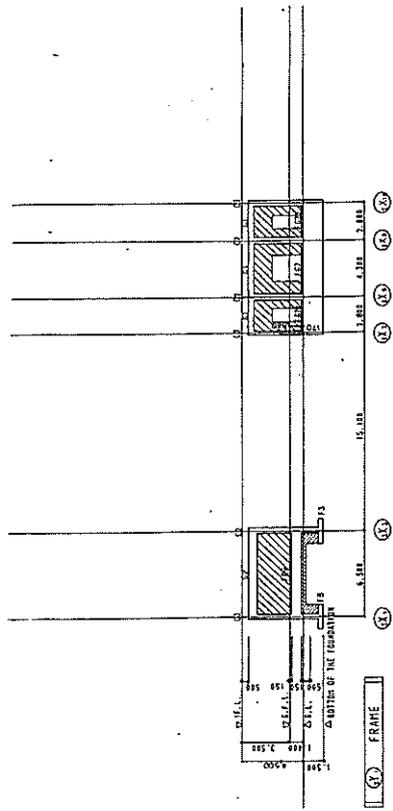


LEGEND

- 1. [Hatched pattern] INDICATES BRICK WALL OF [Symbol]
- 2. [Hatched pattern] INDICATES REINFORCED CONCRETE WALL.
- 3. [Hatched pattern] INDICATES ADDITIONAL CONCRETE.

SC-9

SC-9
 DATE: 27.3.16
 PROJECT: [illegible]
 SHEET: 11 OF 57



AS-BUILT DWG.
 APPROVED BY:
[Signature]
 DATE: 30.3.15

- 1. [Hatched Pattern] INDICATES BRICK WALL OF [Symbol]
- 2. [Hatched Pattern] INDICATES REINFORCED CONCRETE WALL
- 3. [Hatched Pattern] INDICATES OPTIONAL CONCRETE.

SC-10

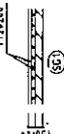
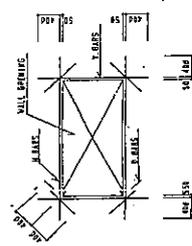
182

COLUMN SCHEDULE S-1150		NOTE: UNLESS OTHERWISE NOTED, LOOP D-112@150		COLUMN KEY PLAN		NOTE: UNLESS OTHERWISE NOTED, 1. COLUMN C1	
FLOOR	MARKS	CO	C1	C1	P1		
SECTION							
MAIN BARS							
LOOP							
NOTE							
SECTION							
TOP BARS							
BOT. BARS							
STIRRUPS							
WEB BARS							
NOTE							
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BOT. BARS							
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WEB BARS							
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STIRRUPS							
WEB BARS							
NOTE							
SECTION							
TOP BARS							
BOT. BARS							

BEAM SCHEDULE S=1/50		NOTE: UNLESS OTHERWISE NOTED, 1. S11 FURFS D-Y 10#200. 2. WEB BARS 2-Y10. 3. SCHEDULE INDICATES ADDITIONAL CONCRETE.		S1		S2		S3		S4		S5		S6		S7		S8	
MARKS	POSITION	ALL	83(034)	ALL	EMD														
S1	TOP BARS	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S2	BOT. BARS	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S3	STIRRUPS	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S4	WEB BARS	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S5	TOP BARS	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S6	BOT. BARS	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S7	STIRRUPS	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S8	WEB BARS	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200

SC-12

REINFORCEMENT FOR OPENING



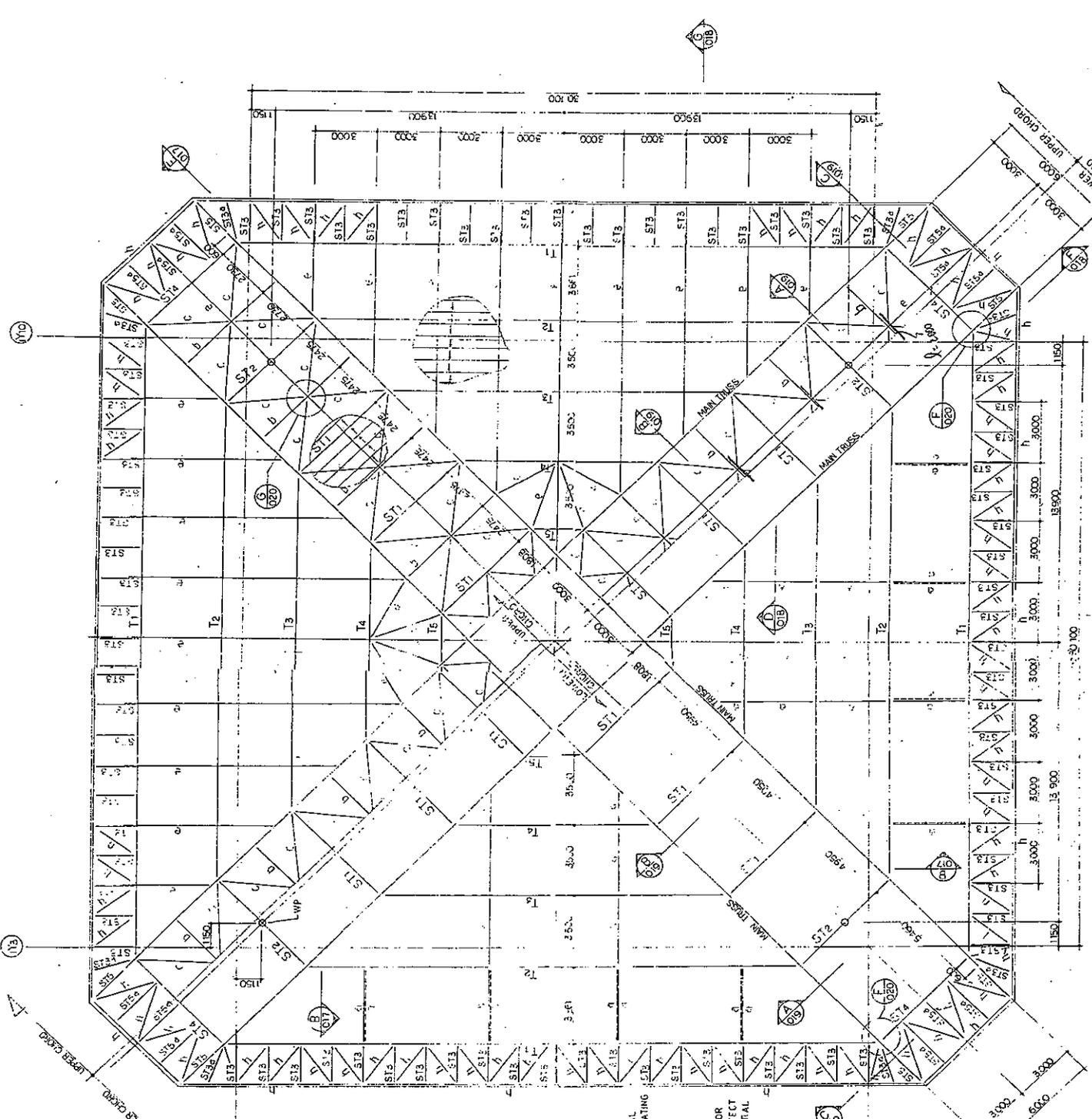
NOTE: UNLESS OTHERWISE NOTED, 1. BAR DOUBLE LAYER

WALL SCHEDULE S=1/50

SLAB SCHEDULE S=1/50

MARKS	THICKNESS	POSITION	SHORT SPAN	LONG SPAN	MARKS	V15	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28
S1	105	TOP BARS	112,116,200	112,116,200	S1	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S2	105	BOT. BARS	112,116,200	112,116,200	S2	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S3	105	STIRRUPS	112,116,200	112,116,200	S3	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S4	105	WEB BARS	112,116,200	112,116,200	S4	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S5	105	TOP BARS	112,116,200	112,116,200	S5	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S6	105	BOT. BARS	112,116,200	112,116,200	S6	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S7	105	STIRRUPS	112,116,200	112,116,200	S7	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200
S8	105	WEB BARS	112,116,200	112,116,200	S8	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200	112,116,200

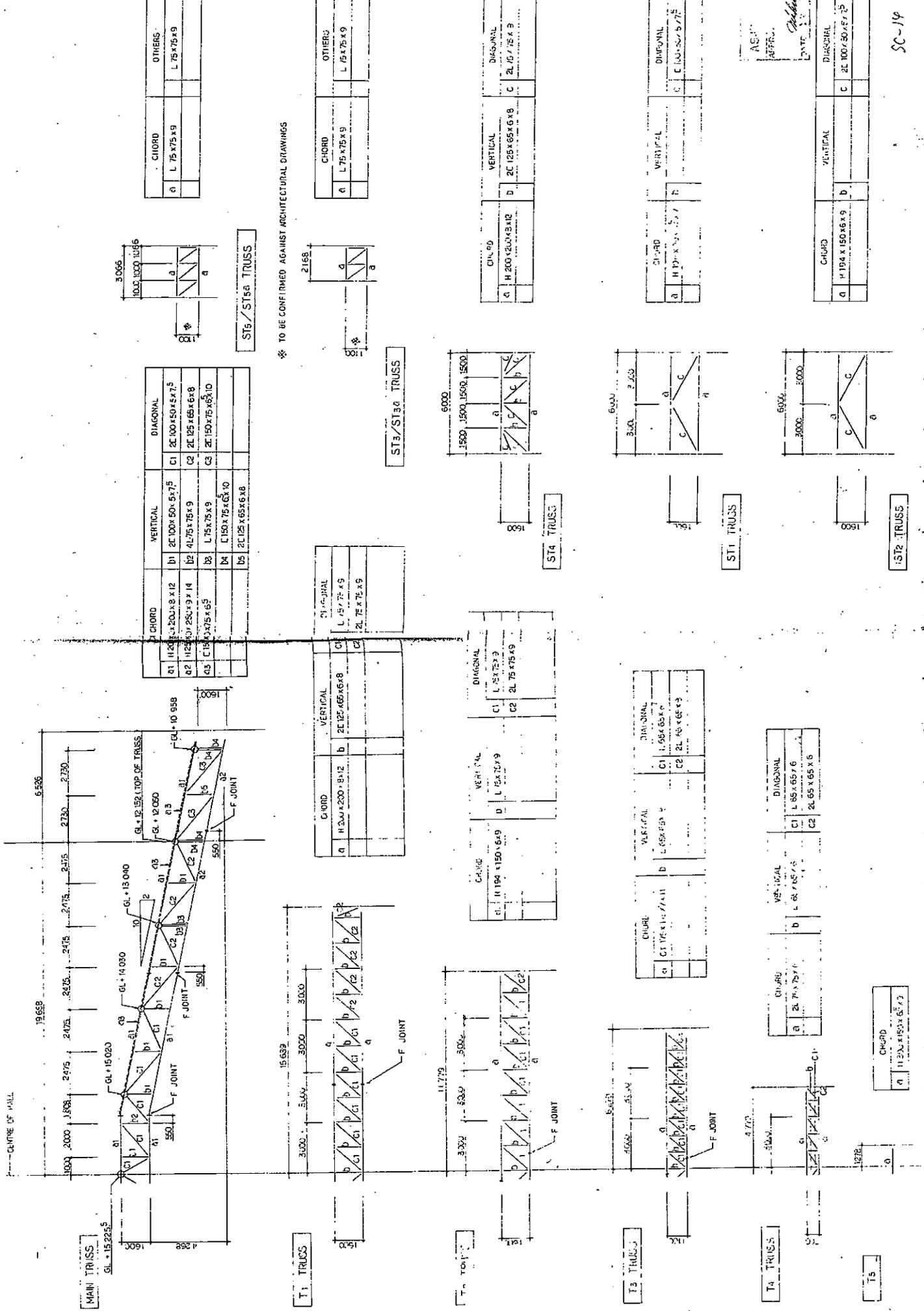
SC-13
 Addition 5-13



MARK	MEMBER	REMARKS
Q	H 10 x 101 x 67 x 8	
P	H 102 x 90 x 47 x 11	
C	L 4 x 90 x 6	RAFTER
E	H 100 x 75 x 5 x 7	W 605 - PURLIN
I	D 12 x 52 x 2 x 25	
H	L 75 x 75 x 9	

- NOTE
- 1) THE CONTRACTOR SHALL SUBMIT FOR THE APPROVAL BY THE ARCHITECT SHOP DRAWINGS CLEARLY INDICATING THE MATERIAL BEING SUPPLIED AND SHOWING ALL CONNECTIONS, ATTACHMENTS, REINFORCING AND ANCHORAGES.
 - 2) BEFORE COMMENCING OPERATIONS THE CONTRACTOR SHALL SUBMIT FOR THE APPROVAL BY THE ARCHITECT HIS PROPOSED ERECTION PROCEDURE OF STRUCTURAL STEEL MEMBERS.

-591-



MAIN TRUSS
GL + 15.225

T1 TRUSS

T2 TRUSS

T3 TRUSS

T4 TRUSS

T5 TRUSS

MEMBER	CHORD	VERTICAL	DIAGONAL	OTHERS
Q1	H 200 x 200 x 8 x 12	2E 100 x 50 x 5 x 7.5	C1 2E 100 x 50 x 7.5	L 75 x 75 x 9
Q2	H 200 x 200 x 8 x 12	4L 75 x 75 x 9	2C 2E 125 x 65 x 6 x 8	L 75 x 75 x 9
Q3	C 150 x 75 x 6.5	L 75 x 75 x 9	2E 150 x 75 x 6.5	L 75 x 75 x 9
Q4	C 150 x 75 x 6.5	L 150 x 75 x 6.5		
Q5	2C 125 x 65 x 6 x 8			

ST6 / ST6a TRUSS

TO BE CONFIRMED AGAINST ARCHITECTURAL DRAWINGS

ST3 / ST3a TRUSS

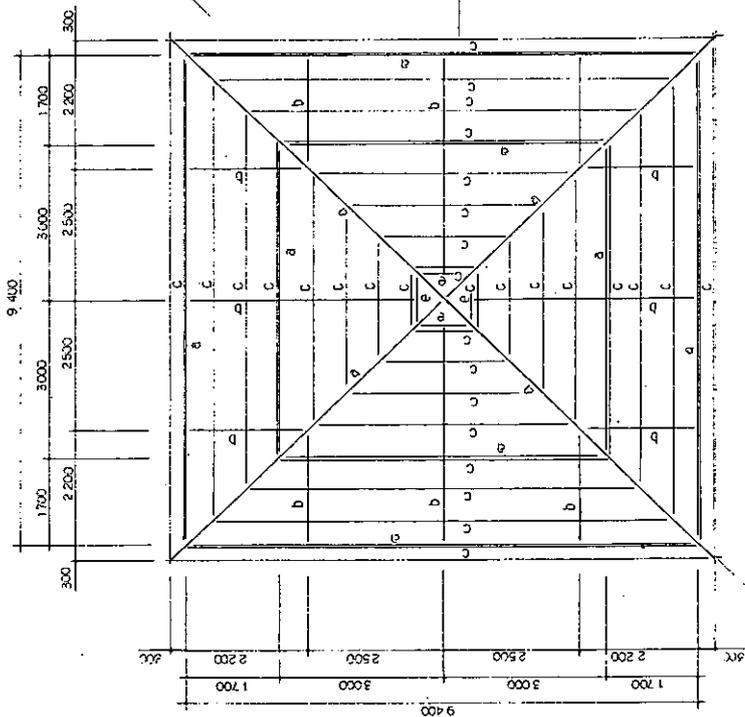
ST4 TRUSS

ST1 TRUSS

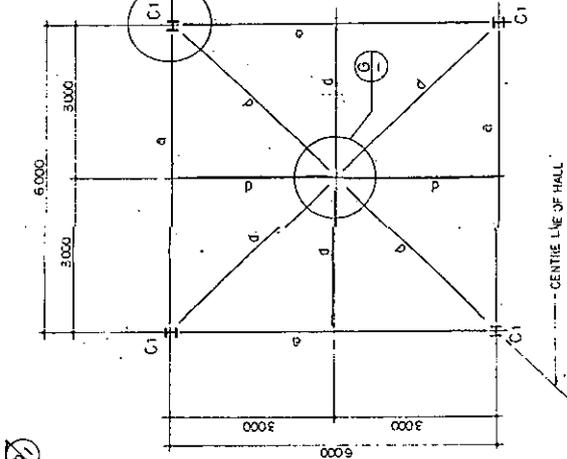
ST2 TRUSS

SC-19

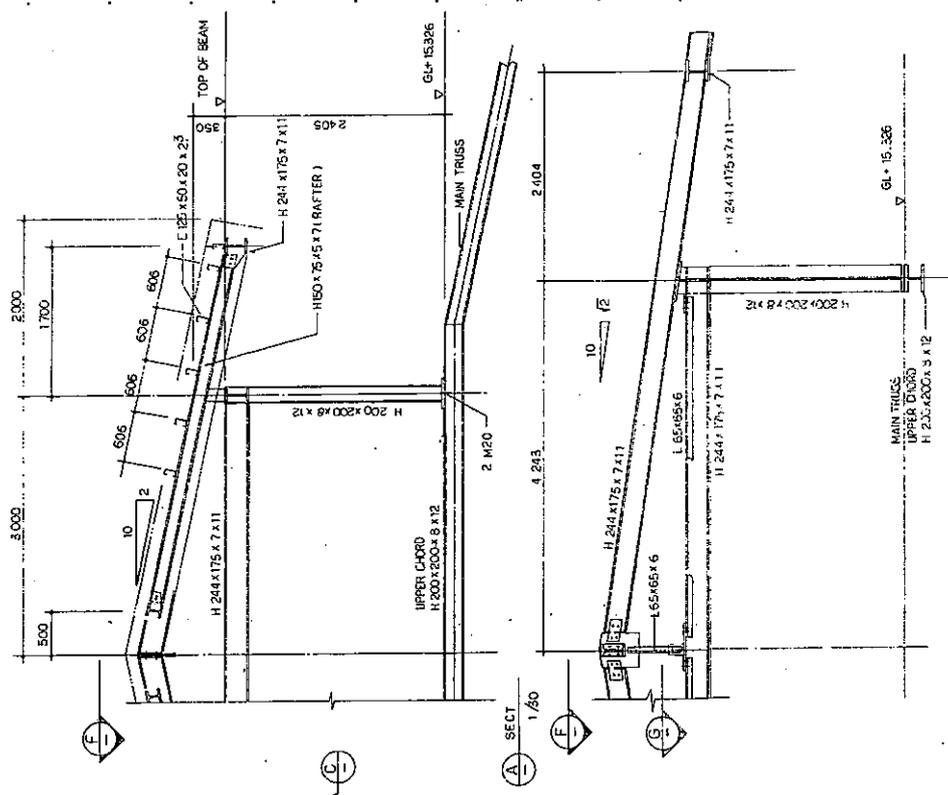
SC-19



CENTRE LINE OF HALL

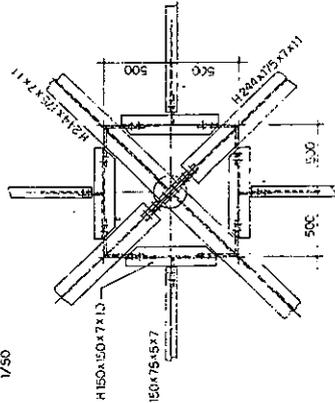


R.V.C. FRAMING PLAN
1/50



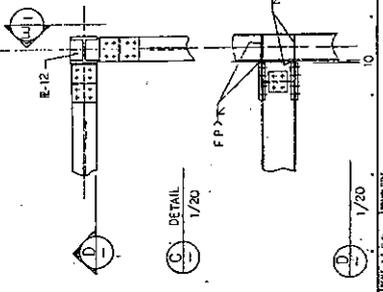
SECT
1/50

MARK	MEMBER	REMARKS
a	H 244x175x7x11	
b	H 150x75x5x7	RAFTER
c	E 125x50x7.0x2.8	
d	L 65x65x6	
e	H 150x75x5x7	
C1	H 200x200x8x12	

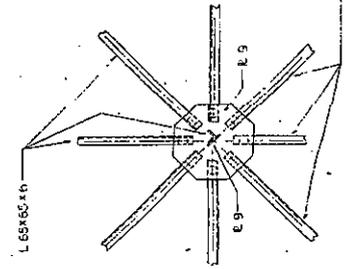


DETAIL
1/20

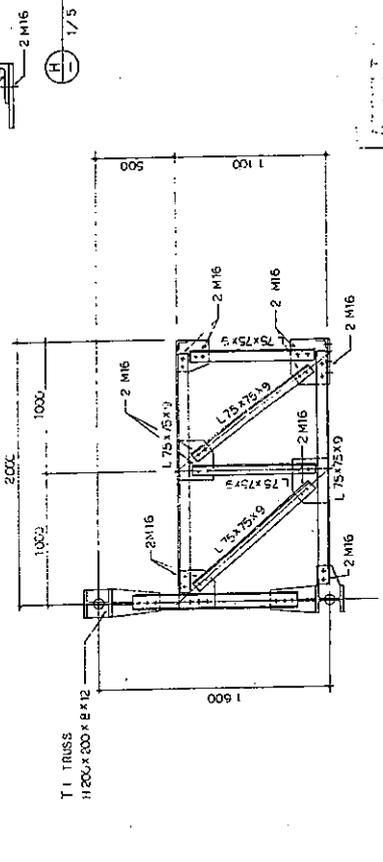
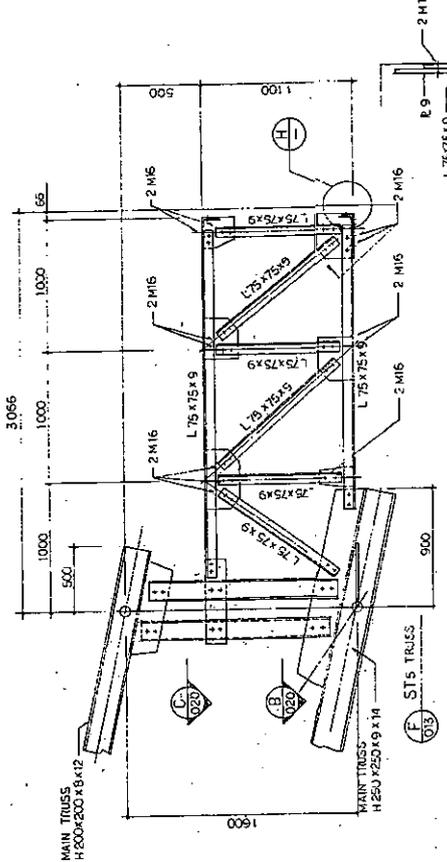
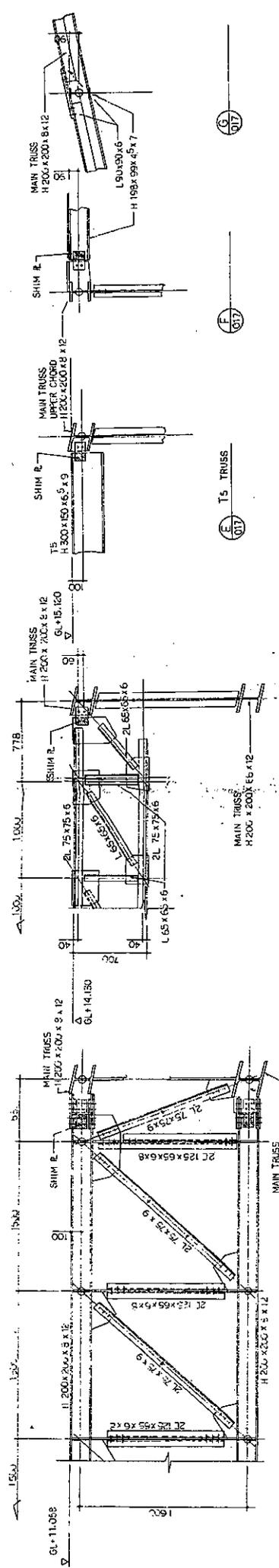
CONNECTION JOINT	MEMBER	SPICE PLATE
H1B/F101	H1B/F101	2 E9x170x290
FLANGE	16 W20	4 R9x65x290
WEB	4 W20	2 E9x140x170



DETAIL
1/20

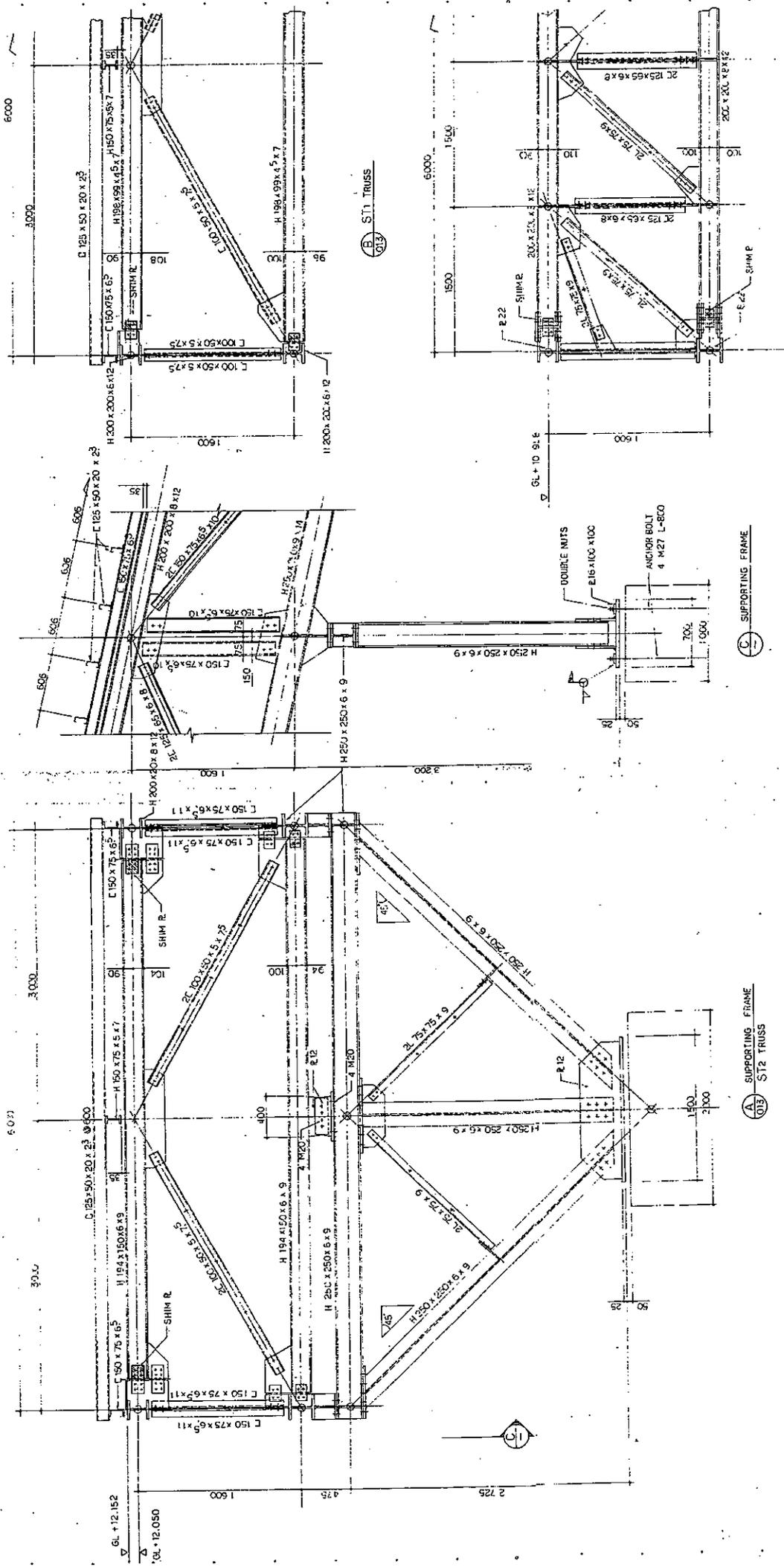


DETAIL
1/20



NOTE
UNLESS OTHERWISE NOTED, ALL BOLTS ARE AS M20.

SC-18



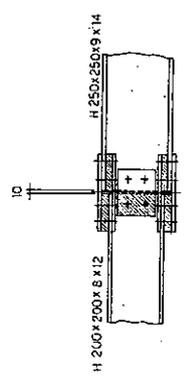
(A) SUPPORTING FRAME
ST2 TRUSS

(C) SUPPORTING FRAME

(B) ST1 TRUSS

(D) ST4 TRUSS

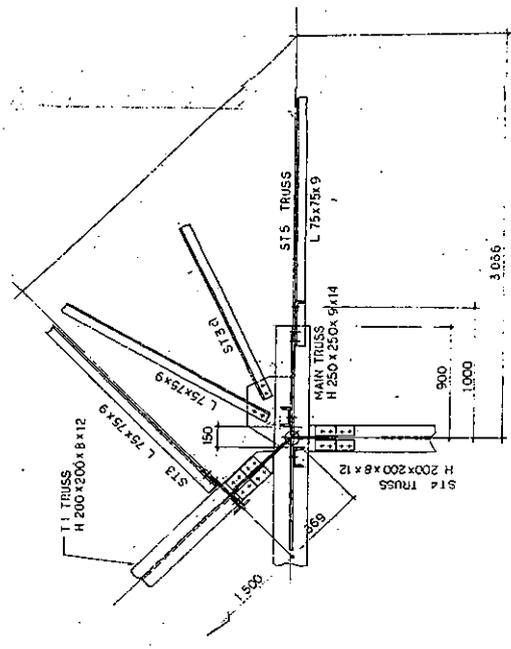
SC-19
AS
Rishi



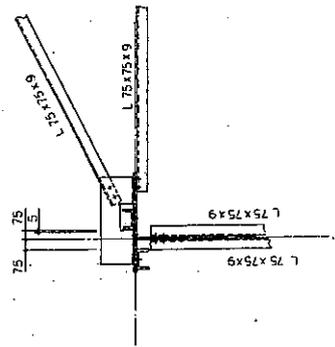
SHOWS SIMIL R.

HTB(F)OT1	SPLICE PLATE
FLANGE	2 E 9 x 155 x 250
WEB	4 E 9 x 70 x 250
	2 E 6 x 140 x 170

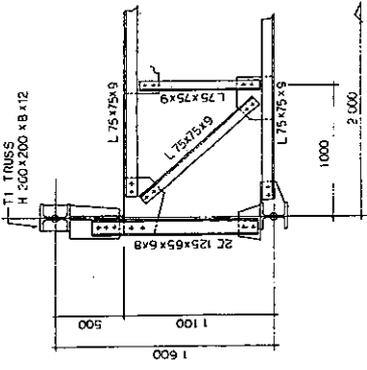
SECT 1/10



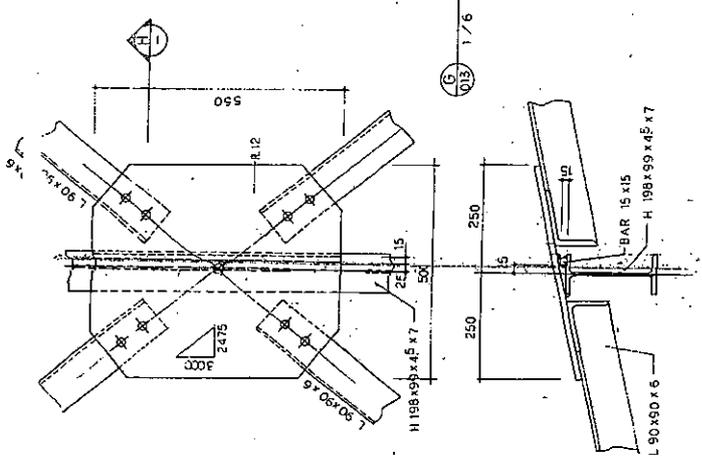
SECT 1/20



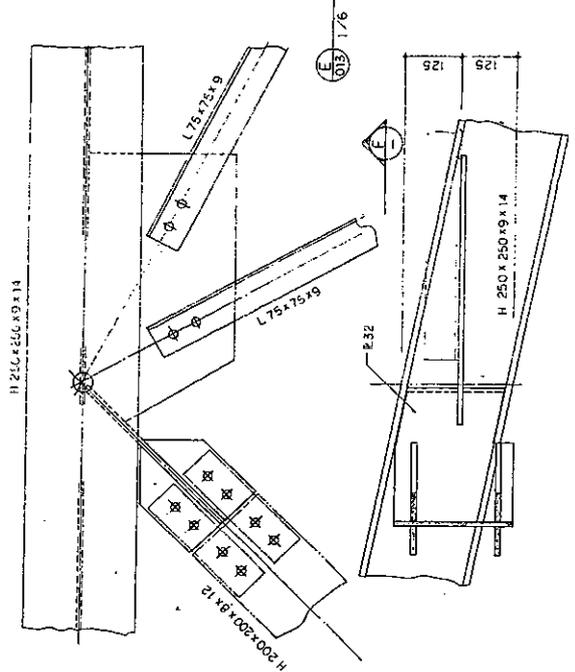
SECT 1/20



SECT 1/20



SECT 1/6



SECT 1/6

SC-20

MOHRI

Structural Calculation
(Dead load)

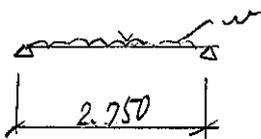
2. 既存部材の検討.

The examination of the existent member

Steel roof (+ board)	250	
Purlin	150	
Ceiling	<u>200</u>	
	600	} 1.1 kN/m ²
PV panel + beam.	500	

SUB BEAM

[e] see dwg S-13 (Page SC-13)



$$w = 1.1 \text{ kN/m}^2 \times 3.0 \text{ m} + 0.5 \text{ kN/m} = 3.8 \text{ kN/m} \quad (-5.2) < 1.5$$

$$M = \frac{1}{8} \times 3.8 \times 2.75^2 = 3.6 \text{ kNm}$$

$$Q = \frac{1}{2} \times 3.8 \times 2.75 = 5.3 \text{ kN}$$

wind (3000%) >

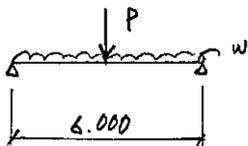
H-150x75x5x7 $I_x = 666$ $Z_x = 88.8$ $f_b = 157$

$$\sigma_b = \frac{3.6 \times 10^3}{88.8} = 41 \quad \sigma_b / f_b = 0.27 < 1.0 \quad \text{OK}$$

$$\tau_{max} = \frac{5 \times 3.8 \times 2.75^2 \times 10^6}{3.84 \times 2.05 \times 10^5 \times 666 \times 10^4} = 2.1 \text{ mm} = 1/1309$$

OK

[b] see dwg S-13.



$$w = 1.1 \text{ kN/m}^2 \times 0.5 \text{ m} + 0.5 \text{ kN/m} = 1.05 \text{ kN/m}$$

$$P = 5.3 \text{ kN} \times 2 = 10.6 \text{ kN}$$

$$M = \frac{1}{8} \times 1.05 \times 6.0^2 + \frac{1}{4} \times 10.6 \times 6.0 = 20.7 \text{ kNm}$$

$$Q = \frac{1}{2} \times 1.05 \times 6.0 + \frac{1}{2} \times 10.6 = 8.5 \text{ kN}$$

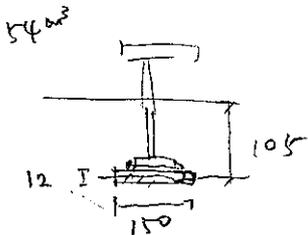
H-198x99x4.5x7 $I_x = 1540$ $Z_x = 156$ $r_b = 300$ $f_b = 157$

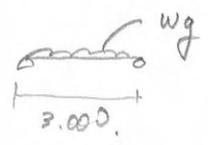
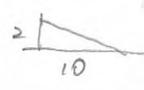
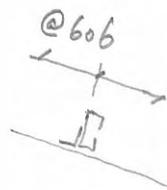
$$\sigma_b = \frac{20.7 \times 10^3}{156} = 133 \text{ N/mm}^2 \quad \sigma_b / f_b = 0.85 < 1.0 \quad \text{OK}$$

$$\tau_{max} = \frac{5 \times 1.05 \times 6.0^2 \times 10^6}{3.84 \times 2.05 \times 1540} + \frac{10600 \times 6.0^3}{48 \times 2.05 \times 1540} = 5.62 + 15.11 = 20.73 = 1/189$$

OK

$$l = 2.0 \text{ m}$$



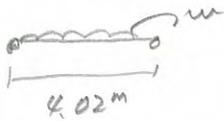


3. 屋根鉄骨部材の算定

母屋 (purlin)

	部材	C - 125	x 50	x 20	x 2.3	
スパン L (m), ピッチ (m)				3.00	0.606	
荷重 Wg (KN/m ²)				3.00	1.10	
(LOAD)						
曲げモーメント xMg (KN・m)			$\omega \cdot \sin \theta \cdot L^2 / 8 =$	0.15		
(Bending Moment)			$\omega \cdot \cos \theta \cdot L^2 / 8 =$	0.74		
せん断力 yQg (KN)			$\omega \cdot \cos \theta \cdot L / 2 =$	1		
(Shear)						
断面性能 Iy (cm ⁴)			137			
Ix (cm ⁴)			20.6			
Zy (cm ³)			21.9			
Zx (cm ³)			6.22			
許容曲げ応力度 fb (KN/cm ²)			15.7			
曲げ応力度 xσb = xM/Zx (KN/cm ²)			2.42			
曲げ応力度 yσb = yM/Zy (KN/cm ²)			3.38			
応力度比 (xσb + yσb) / fb ≤ 1			0.37	≤	1	OK
撓み δg (cm)			0.49			
δ/L ≥ 300			612	≥	300	OK

(E)



$$1.1 \times 3.0 + 0.5 \frac{\text{KN}}{\text{m}} = 3.8 \frac{\text{KN}}{\text{m}}$$

$$M = \frac{1}{8} \times 3.8 \times 4.02^2 = 7.7 \text{ KN}\cdot\text{m}$$

$$Q = \frac{1}{2} \times 3.8 \times 4.02 = 7.7 \text{ KN}$$

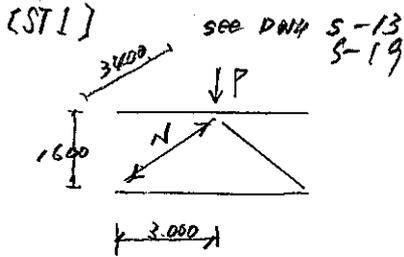
H-150x75x5x7

$$\sigma_b = \frac{7.7 \times 10^3}{88.8} = 87 \quad \sigma_b / f_b = 0.56 < 1.0$$

$$\delta_{max} = \frac{5 \times 2.8 \times 4.02^4 \times 10}{3.84 \times 2.05 \times 666} = 9.5 \text{ mm} = \frac{1}{423}$$

SC-22a

Sub TRUSS.



$$P = 1.1 \text{ kN/m}^2 \times 3.0 \text{ m} \times 2.5 \text{ m} + 0.5 \frac{\text{kN}}{\text{m}} \times 2.5 \text{ m} = 9.5 \text{ kN}$$

$$N = \frac{1}{2} \times 9.5 \times \frac{3.4}{1.6} = 10.1 \text{ kN}$$

$$L = 100 \times 50 \times 5 \times 7.5 \quad A = 11.92 \text{ cm}^2 \quad i = 1.48 \text{ cm}$$

$$Lk = 3400 \quad \lambda = 230 \quad f_c = 17.7$$

$$\sigma_c = \frac{10.1 \times 10^3}{1192} = 8.5 \quad \sigma_c / f_c = 0.48 \quad \text{O.K.}$$

For T2 Truss.

(LOAD)

T2 トラス 荷重

Truss self weight

トラスは 800 N/m^2 で図に示す。

集中荷重として $(1.1 \text{ kN/m}^2 + 0.8 \text{ kN/m}^2) \times 3.0 \text{ m} \times 3.76 \text{ m} + 0.5 \frac{\text{kN}}{\text{m}} \times 3.76 \text{ m} = 23.4 \text{ kN}$

$$(3.5 + 3.86) \times \frac{1}{2} \times 102$$

Point Load.

For Main Truss

メイントラス荷重 (Load)

$$P_1 = 1.9 \text{ kN/m}^2 \times 2.0 \text{ m} \times 15.0 \text{ m} + 1.9 \text{ kN/m}^2 \times 1.5 \text{ m} \times 3.0 \text{ m} = 65.6 \text{ kN}$$

$$P_2 = 1.9 \text{ kN/m}^2 \times 2.75 \text{ m} \times 3.0 \text{ m} = 15.7 \text{ kN}$$

$$P_3 = 1.9 \text{ kN/m}^2 \times 3.75 \text{ m} \times 11.5 \text{ m} + 1.9 \text{ kN/m}^2 \times 2.75 \text{ m} \times 3.0 \text{ m} = 97.7 \text{ kN}$$

$$P_4 = 1.9 \text{ kN/m}^2 \times 2.5 \text{ m} \times 3.0 \text{ m} = 14.3 \text{ kN} \quad P_{4a} = 1.4 \times 2.5 \times 3.0 = 10.5 \text{ kN}$$

$$P_5 = 1.9 \text{ kN/m}^2 \times 3.5 \text{ m} \times 8.5 \text{ m} + 1.9 \text{ kN/m}^2 \times 2.5 \text{ m} \times 3.0 \text{ m} = 70.8 \text{ kN}$$

PV5L → $P_6 = 1.4 \text{ kN/m}^2 \times 3.5 \text{ m} \times 5.0 \text{ m} + 1.4 \text{ kN/m}^2 \times 2.5 \text{ m} \times 3.0 \text{ m} = 35.0 \text{ kN}$

PV5 → $P_7 = 1.4 \text{ kN/m}^2 \times 2.8 \text{ m} \times 1.5 \text{ m} + 1.4 \text{ kN/m}^2 \times 2.5 \text{ m} \times 3.0 \text{ m} = 16.4 \text{ kN}$

頂部
Top roof $P_8 = 6.0 \text{ kN/m}^2 \times 3.0 \text{ m} \times 3.0 \text{ m} = 54 \text{ kN}$

Truss
[T2] トラス

Main Member
主桁材

lower chord
下弦材 $N = 203 \text{ kN}$ ← SC-27

H-194x150x6x9 $A = 38.11 \text{ cm}^2$ $i_y = 3.65 \text{ cm}$

$L_b = 300 \text{ cm}$ $\lambda = 83$ $f_c = 104$

$\sigma_c = \frac{2030}{38.11} = 54$ $\sigma_c / f_c = 54 / 104 = 0.52 < 1.0$

OK

SC-14, 18

束材 (Post)
束材 $N = 81 \text{ kN}$ ← SC-27

L-75x75x9 $i_x = 1.45$ $i_y = 2.25$ $L_b = 130$ $A = 12.69$

$\lambda = 90$

$f_c = 97.1$

$\lambda_1 = 58$

$f_c = 129$

$\sigma_c = \frac{810}{12.69} = 64$ $\sigma_c / f_c = 0.66$

OK

SC-14, 18

(Web)
747 $T = 103 \text{ kN}$ ← SC-27

L-75x75x9 $A_e = 1269 - 9 \times 375 = 931$

$f_t = 157$

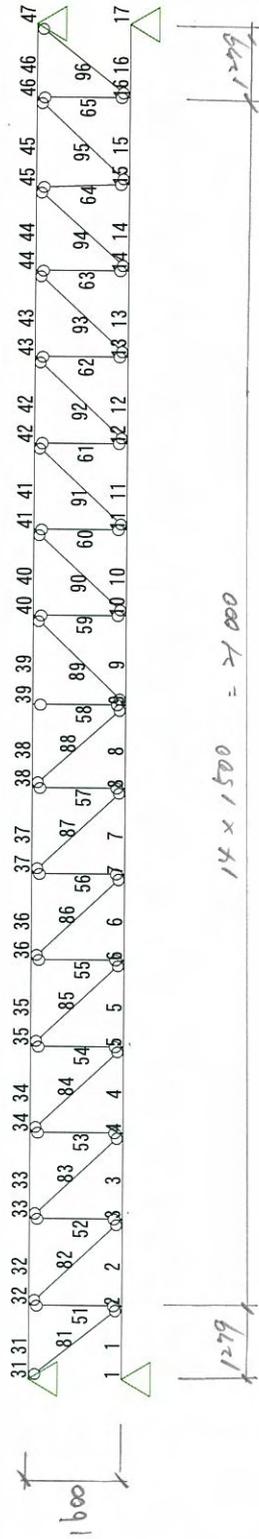
$\sigma_t = \frac{103 \times 10^3}{931} = 111$

$\sigma_t / f_t = 0.71 < 1.0$

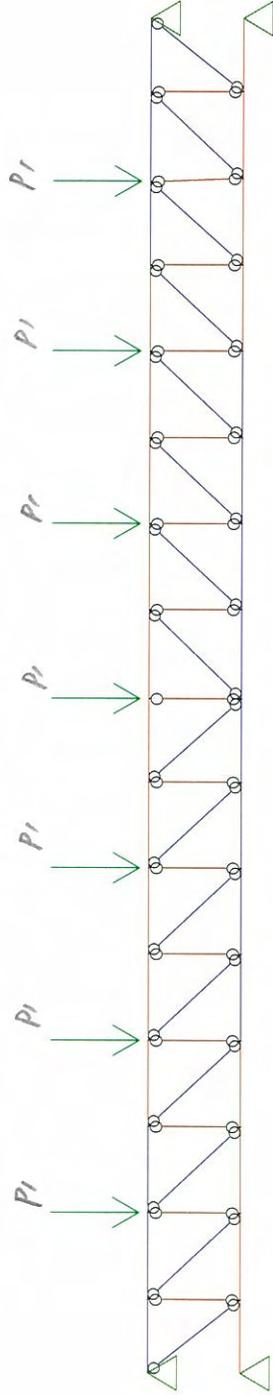
OK

SC-14, 18

Frame



LOAD

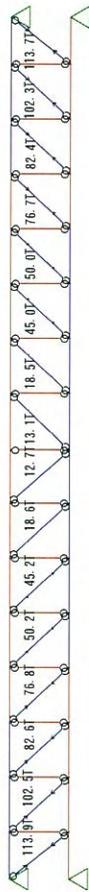


$$P_1 = 23.4 \text{ kN}$$

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*** Super Build/FA1 *** 250780 [N07T2]
応力图 [DL+LL]

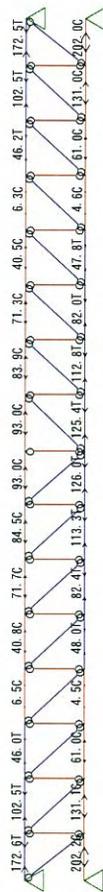
** UNION SYSTEM ** 3.37 2009/06/12 20:18 PAGE- 1



web

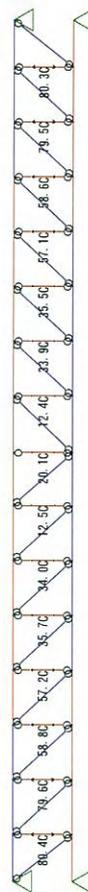
応力图 [DL+LL]

chord



応力图 [DL+LL]

post



SC-29

【基本事項・計算条件】

工 事 名 : モデルイブ No7 T2
 略 称 : N07T2
 日 付 : 2009/06/04
 担 当 者 :

- ・せん断による変形の考慮 : する
 - ・剛域の考慮 : する
 - ・伸縮しない材 (Aを1000倍) : 有
 - ・節点同一変位の指定 : 無
 - ・部材毎の増減率の考慮 : 無
 - ・ハネ材の使用 : しない
 - ・結合状態の共通指定 : 部材毎に指定
 - ・応力着目点の追加 : しない
 - ・接合部ハネ変形の考慮 : しない
 - ・剛域・ハネの軸変形の考慮 : しない
 - ・剛域を考慮した固定端モーメントの計算 : しない
 - ・部材端と節点のズレ : 無
 - ・分布ハネ : 無
- ・出力単位 : S I 単位

【節点座標】 [m]

No	X座標	Y座標									
1	0.000	0.000	11	14.779	0.000	34	4.279	1.600	44	19.279	1.600
2	1.279	0.000	12	16.279	0.000	35	5.779	1.600	45	20.779	1.600
3	2.779	0.000	13	17.779	0.000	36	7.279	1.600	46	22.279	1.600
4	4.279	0.000	14	19.279	0.000	37	8.779	1.600	47	23.558	1.600
5	5.779	0.000	15	20.779	0.000	38	10.279	1.600			
6	7.279	0.000	16	22.279	0.000	39	11.729	1.600			
7	8.779	0.000	17	23.558	0.000	40	13.279	1.600			
8	10.279	0.000	31	0.000	1.600	41	14.779	1.600			
9	11.729	0.000	32	1.279	1.600	42	16.279	1.600			
10	13.279	0.000	33	2.779	1.600	43	17.779	1.600			

【支点データ】 [kN/cm] [kNm/rad] (0は自由、1は拘束を表します。)

No	節点No.			X方向ハネ	Y方向ハネ	回転ハネ
	<1>	<2>	<3>			
1	1	31		1.0	1.0	0.0
2	17	47		1.0	1.0	0.0

【材質】 [kN/mm2]

No	E	G
1	205.00	79.00

【断面性能】

No	A [cm2]	I [cm4]	κ	断面名
1	38.11	2625	3.61	H-194*150*6*9*8
2	12.69	64	3.00	L-75*75*9
3	25.38	129	3.00	2L-75*75*9

【部材配置】 (断面No. が負値の材は、伸縮しない材を表します。)

No	節点No.		断面No	材質No	結合No		剛域 [cm]	
	i 端	j 端			i 端	j 端	i 端	j 端
1	1	2	1	1	0	0	0.0	0.0
2	2	3	1	1	0	0	0.0	0.0
3	3	4	1	1	0	0	0.0	0.0
4	4	5	1	1	0	0	0.0	0.0
5	5	6	1	1	0	0	0.0	0.0

No	ノードNo		断面No	材質No	結合No		剛域 [cm]	
	i 端	j 端			i 端	j 端	i 端	j 端
6	6	7	1	1	0	0	0.0	0.0
7	7	8	1	1	0	0	0.0	0.0
8	8	9	1	1	0	0	0.0	0.0
9	9	10	1	1	0	0	0.0	0.0
10	10	11	1	1	0	0	0.0	0.0
11	11	12	1	1	0	0	0.0	0.0
12	12	13	1	1	0	0	0.0	0.0
13	13	14	1	1	0	0	0.0	0.0
14	14	15	1	1	0	0	0.0	0.0
15	15	16	1	1	0	0	0.0	0.0
16	16	17	1	1	0	0	0.0	0.0
31	31	32	1	1	0	0	0.0	0.0
32	32	33	1	1	0	0	0.0	0.0
33	33	34	1	1	0	0	0.0	0.0
34	34	35	1	1	0	0	0.0	0.0
35	35	36	1	1	0	0	0.0	0.0
36	36	37	1	1	0	0	0.0	0.0
37	37	38	1	1	0	0	0.0	0.0
38	38	39	1	1	0	0	0.0	0.0
39	39	40	1	1	0	0	0.0	0.0
40	40	41	1	1	0	0	0.0	0.0
41	41	42	1	1	0	0	0.0	0.0
42	42	43	1	1	0	0	0.0	0.0
43	43	44	1	1	0	0	0.0	0.0
44	44	45	1	1	0	0	0.0	0.0
45	45	46	1	1	0	0	0.0	0.0
46	46	47	1	1	0	0	0.0	0.0
51	2	32	2	1	1	1	0.0	0.0
52	3	33	2	1	1	1	0.0	0.0
53	4	34	2	1	1	1	0.0	0.0
54	5	35	2	1	1	1	0.0	0.0
55	6	36	2	1	1	1	0.0	0.0
56	7	37	2	1	1	1	0.0	0.0
57	8	38	2	1	1	1	0.0	0.0
58	9	39	2	1	1	1	0.0	0.0
59	10	40	2	1	1	1	0.0	0.0
60	11	41	2	1	1	1	0.0	0.0
61	12	42	2	1	1	1	0.0	0.0
62	13	43	2	1	1	1	0.0	0.0
63	14	44	2	1	1	1	0.0	0.0
64	15	45	2	1	1	1	0.0	0.0
65	16	46	2	1	1	1	0.0	0.0
81	31	2	3	1	1	1	0.0	0.0
82	32	3	2	1	1	1	0.0	0.0
83	33	4	2	1	1	1	0.0	0.0
84	34	5	2	1	1	1	0.0	0.0
85	35	6	2	1	1	1	0.0	0.0
86	36	7	2	1	1	1	0.0	0.0
87	37	8	2	1	1	1	0.0	0.0
88	38	9	2	1	1	1	0.0	0.0
89	9	40	2	1	1	1	0.0	0.0
90	10	41	2	1	1	1	0.0	0.0
91	11	42	2	1	1	1	0.0	0.0
92	12	43	2	1	1	1	0.0	0.0
93	13	44	2	1	1	1	0.0	0.0
94	14	45	2	1	1	1	0.0	0.0
95	15	46	2	1	1	1	0.0	0.0
96	16	47	3	1	1	1	0.0	0.0

【荷重ケース 1】DL+LL

No	ノード, 部材No			TYPE	方向	P 1	P 2	P 3	P 4	P 5	P 6
	<1>	<2>	<3>								
1	33	35	37	0		0.000kN	-23.400kN	0.000kNm			
2	39	41	43	0		0.000kN	-23.400kN	0.000kNm			
3	45			0		0.000kN	-23.400kN	0.000kNm			

【支点反力】

※※ 荷重ケース 1 ※※ DL+LL

節点No	Rx [kN]	Ry [kN]	Rm [kNm]
1	202.2	-4.3	0.0
17	-202.0	-4.3	0.0
31	-243.7	86.2	0.0
47	243.5	86.1	0.0
合計	0.0	163.8	0.0

【節点変位】

※※ 荷重ケース 1 ※※ DL+LL

節点No	δx [cm]	δy [cm]	θ [rad]	節点No	δx [cm]	δy [cm]	θ [rad]
1	0.000000	0.000000	-0.00048999	34	0.056786	-0.623990	-0.00163620
2	-0.033102	-0.083853	-0.00114086	35	0.055536	-0.867646	-0.00145877
3	-0.058273	-0.332915	-0.00178422	36	0.047694	-1.057427	-0.00118001
4	-0.069981	-0.587852	-0.00167229	37	0.033920	-1.218206	-0.00081811
5	-0.070848	-0.832453	-0.00150841	38	0.017698	-1.301808	-0.00043081
6	-0.061624	-1.035490	-0.00122649	39	0.000438	-1.344993	-0.00001293
7	-0.045808	-1.197286	-0.00086937	40	-0.018011	-1.300270	0.00043252
8	-0.024060	-1.294109	-0.00045933	41	-0.034122	-1.216570	0.00081795
9	-0.000670	-1.332634	-0.00001143	42	-0.047803	-1.055905	0.00117873
10	0.024218	-1.292635	0.00046302	43	-0.055577	-0.866376	0.00145677
11	0.045874	-1.195719	0.00086874	44	-0.056783	-0.623055	0.00163380
12	0.061622	-1.034050	0.00122525	45	-0.047921	-0.381329	0.00168781
13	0.070802	-0.831264	0.00150641	46	-0.028240	-0.133119	0.00134551
14	0.069914	-0.586997	0.00166991	47	0.000000	0.000000	0.00093681
15	0.058208	-0.332435	0.00178162				
16	0.033062	-0.083729	0.00113922				
17	0.000000	0.000000	0.00048926				
31	0.000000	0.000000	-0.00093827				
32	0.028262	-0.133322	-0.00134747				
33	0.047945	-0.381889	-0.00169035				

【部材応力】

※※ 荷重ケース 1 ※※ DL+LL

部材No	ノードNo		M [kNm]			Q [kN]		N [kN]	
	i 端	j 端	i 端	中央	j 端	i 端	j 端	i 端	j 端
1	1	2	0.0	-2.7	-5.5	-4.3	4.3	202.2	-202.2
2	2	3	5.5	-2.3	0.9	4.2	-4.2	131.1	-131.1
3	3	4	-0.9	0.4	-0.1	-0.6	0.6	61.0	-61.0
4	4	5	0.1	0.6	1.2	0.9	-0.9	4.5	-4.5
5	5	6	-1.2	1.0	0.8	-0.3	0.3	-48.0	48.0
6	6	7	-0.8	1.3	1.8	0.7	-0.7	-82.4	82.4
7	7	8	-1.8	1.5	1.2	-0.4	0.4	-113.3	113.3
8	8	9	-1.2	1.7	2.2	0.7	-0.7	-126.0	126.0
9	9	10	-2.2	1.6	1.1	-0.7	0.7	-125.4	125.4
10	10	11	-1.1	1.5	1.8	0.4	-0.4	-112.8	112.8
11	11	12	-1.8	1.3	0.8	-0.7	0.7	-82.0	82.0
12	12	13	-0.8	1.0	1.2	0.3	-0.3	-47.8	47.8
13	13	14	-1.2	0.6	-0.1	-0.9	0.9	4.6	-4.6
14	14	15	0.1	0.4	0.9	0.6	-0.6	61.0	-61.0
15	15	16	-0.9	-2.3	-5.5	-4.2	4.2	131.0	-131.0

部材No	/- 節点No -/		M [kNm]			/-----/ Q [kN]		/-----/ N [kN]	
	i 端	j 端	i 端	中央	j 端	i 端	j 端	i 端	j 端
16	16	17	5.5	-2.7	0.0	4.3	-4.3	202.0	-202.0
31	31	32	0.0	-1.7	-3.4	-2.7	2.7	-172.6	172.6
32	32	33	3.4	-1.2	1.0	3.0	-3.0	-102.5	102.5
33	33	34	-1.0	0.2	-0.6	-1.1	1.1	-46.0	46.0
34	34	35	0.6	0.6	1.9	1.6	-1.6	6.5	-6.5
35	35	36	-1.9	1.0	0.1	-1.2	1.2	40.8	-40.8
36	36	37	-0.1	1.3	2.5	1.6	-1.6	71.7	-71.7
37	37	38	-2.5	1.4	0.3	-1.4	1.4	84.5	-84.5
38	38	39	-0.3	1.6	2.8	1.7	-1.7	93.0	-93.0
39	39	40	-2.8	1.5	0.3	-1.6	1.6	93.0	-93.0
40	40	41	-0.3	1.4	2.5	1.4	-1.4	83.9	-83.9
41	41	42	-2.5	1.3	0.1	-1.6	1.6	71.7	-71.7
42	42	43	-0.1	1.0	1.9	1.2	-1.2	40.5	-40.5
43	43	44	-1.9	0.6	-0.6	-1.6	1.6	6.3	-6.3
44	44	45	0.6	0.2	1.0	1.1	-1.1	-46.2	46.2
45	45	46	-1.0	-1.2	-3.4	-2.9	2.9	-102.5	102.5
46	46	47	3.4	-1.7	0.0	2.7	-2.7	-172.5	172.5
51	2	32	0.0	0.0	0.0	0.0	0.0	80.4	-80.4
52	3	33	0.0	0.0	0.0	0.0	0.0	79.6	-79.6
53	4	34	0.0	0.0	0.0	0.0	0.0	58.8	-58.8
54	5	35	0.0	0.0	0.0	0.0	0.0	57.2	-57.2
55	6	36	0.0	0.0	0.0	0.0	0.0	35.7	-35.7
56	7	37	0.0	0.0	0.0	0.0	0.0	34.0	-34.0
57	8	38	0.0	0.0	0.0	0.0	0.0	12.5	-12.5
58	9	39	0.0	0.0	0.0	0.0	0.0	20.1	-20.1
59	10	40	0.0	0.0	0.0	0.0	0.0	12.4	-12.4
60	11	41	0.0	0.0	0.0	0.0	0.0	33.9	-33.9
61	12	42	0.0	0.0	0.0	0.0	0.0	35.5	-35.5
62	13	43	0.0	0.0	0.0	0.0	0.0	57.1	-57.1
63	14	44	0.0	0.0	0.0	0.0	0.0	58.6	-58.6
64	15	45	0.0	0.0	0.0	0.0	0.0	79.5	-79.5
65	16	46	0.0	0.0	0.0	0.0	0.0	80.3	-80.3
81	31	2	0.0	0.0	0.0	0.0	0.0	-113.9	113.9
82	32	3	0.0	0.0	0.0	0.0	0.0	-102.5	102.5
83	33	4	0.0	0.0	0.0	0.0	0.0	-82.6	82.6
84	34	5	0.0	0.0	0.0	0.0	0.0	-76.8	76.8
85	35	6	0.0	0.0	0.0	0.0	0.0	-50.2	50.2
86	36	7	0.0	0.0	0.0	0.0	0.0	-45.2	45.2
87	37	8	0.0	0.0	0.0	0.0	0.0	-18.6	18.6
88	38	9	0.0	0.0	0.0	0.0	0.0	-12.7	12.7
89	9	40	0.0	0.0	0.0	0.0	0.0	-13.1	13.1
90	10	41	0.0	0.0	0.0	0.0	0.0	-18.5	18.5
91	11	42	0.0	0.0	0.0	0.0	0.0	-45.0	45.0
92	12	43	0.0	0.0	0.0	0.0	0.0	-50.0	50.0
93	13	44	0.0	0.0	0.0	0.0	0.0	-76.7	76.7
94	14	45	0.0	0.0	0.0	0.0	0.0	-82.4	82.4
95	15	46	0.0	0.0	0.0	0.0	0.0	-102.3	102.3
96	16	47	0.0	0.0	0.0	0.0	0.0	-113.7	113.7

18

Main Truss
[X1472]

主桁 lower chord

$N = 644 \text{ kN}$ ✓ SC-34

H-250x250x9x14 $i_y = 6.32$ $A = 91.43$ $L_R = 500$ $\lambda = 80$
 $f_c = 108$

$\sigma_c = \frac{6440}{91.43} = 71$ $\sigma_c / f_c = 0.66 < 1.0$
OK

束材 post

$N = 294 \text{ kN}$ ✓ SC-34

2L-150x75x6.5x10 $A = 23.71 \times 2$ $i_y = 2.22$
 $L_R = 150 \text{ m}$ $\lambda = 68$ $f_c = 119$

$\sigma_c = \frac{2940}{23.71 \times 2} = 62$ $\sigma_c / f_c = 0.52 < 1.0$
OK

792 web

$N = 243 \text{ kN}$ ✓ SC-34

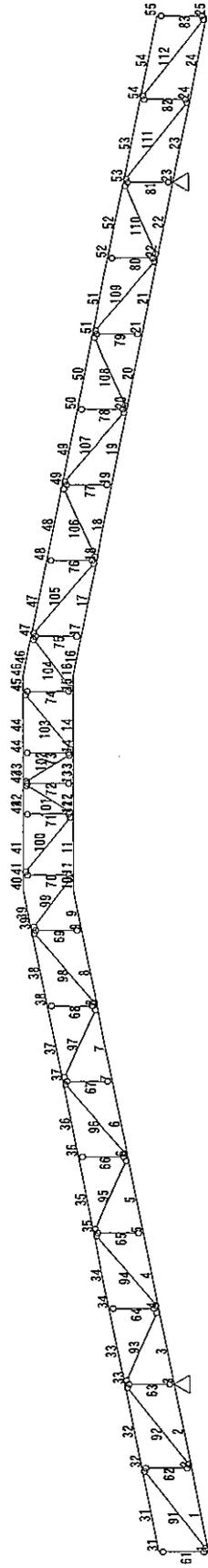
2L-125x65x6x8 $i_y = 1.9 \times 2 = 3.8$ $A = 17.11 \times 2 = 34.22$
 $L_R = 240 \text{ m}$ $\lambda = 67$ $f_c = 123$

$\sigma_c = \frac{2430}{34.22} = 72$ $\sigma_c / f_c = 0.59 < 1.0$
OK

Ref.

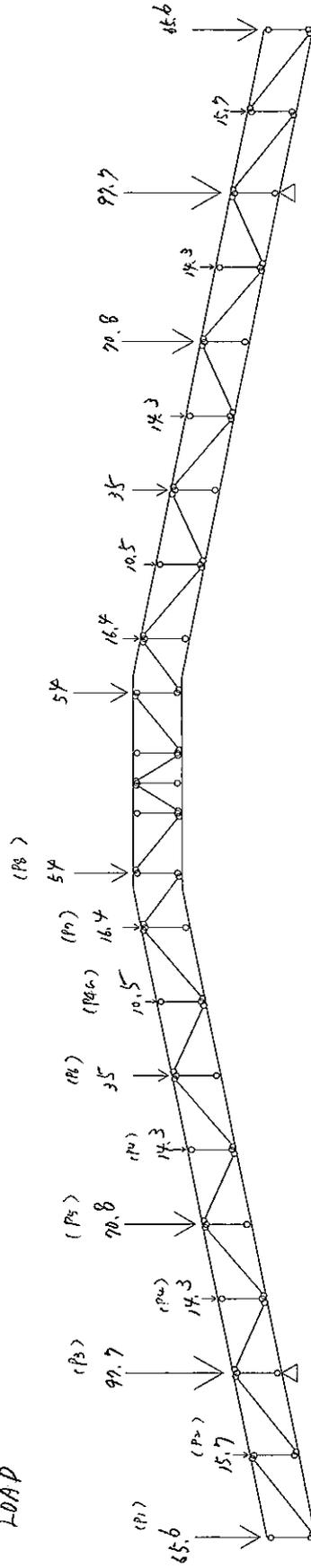
SC-14, 17

Frame



荷重圖 [DL+LL]

LOAD



【基本事項・計算条件】

工 事 名：モデルメンテナンス
略 称：N07MAINE
日 付：2009/05/21
担 当 者：yec

- ・せん断による変形の考慮 : する
- ・剛域の考慮 : する
- ・伸縮しない材 (Aを1000倍) : 有
- ・節点同一変位の指定 : 有
- ・部材毎の増減率の考慮 : 無
- ・ハネ材の使用 : しない
- ・結合状態の共通指定 : 部材毎に指定
- ・応力着目点の追加 : しない
- ・接合部ハネの変形の考慮 : しない
- ・剛域・ハネの軸変形の考慮 : しない
- ・剛域を考慮した固定端モーメントの計算 : しない
- ・部材端と節点のスレ : 無
- ・分布ハネ : 無
- ・出力単位 : S I 単位

【節点座標】 [m]

No	X座標	Y座標									
1	0.000	0.000	16	28.613	4.320	36	12.885	4.175	51	39.816	3.680
2	2.730	0.544	17	29.916	4.060	37	15.360	4.670	52	42.291	3.185
3	5.460	1.090	18	32.391	3.565	38	17.835	5.165	53	44.766	2.690
4	7.935	1.585	19	34.866	3.070	39	20.310	5.660	54	47.496	2.144
5	10.410	2.080	20	37.341	2.575	40	21.613	5.920	55	50.226	1.600
6	12.885	2.575	21	39.816	2.080	41	22.113	5.920			
7	15.360	3.070	22	42.291	1.585	42	24.113	5.920			
8	17.835	3.565	23	44.766	1.090	43	25.113	5.920			
9	20.310	4.060	24	47.496	0.544	44	26.113	5.920			
10	21.613	4.320	25	50.226	0.000	45	28.113	5.920			
11	22.113	4.320	31	0.000	1.600	46	28.613	5.920			
12	24.113	4.320	32	2.730	2.144	47	29.916	5.660			
13	25.113	4.320	33	5.460	2.690	48	32.391	5.165			
14	26.113	4.320	34	7.935	3.185	49	34.866	4.670			
15	28.113	4.320	35	10.410	3.680	50	37.341	4.175			

【支点データ】 [kN/cm] [kNm/rad] (0は自由、1は拘束を表します。)

No	節点No. <1> <2> <3>	X方向ハネ	Y方向ハネ	回転ハネ
1	3	1.0	1.0	0.0
2	23	1.0	1.0	0.0

【節点同一変位】

---- 入力値なし ----

【材質】 [kN/mm2]

No	E	G
1	205.00	79.00

【断面性能】

No	A [cm2]	I [cm4]	κ	断面名
1	91.43	10748	4.58	H-250*250*9*14*13
2	63.53	4716	4.51	H-200*200*8*12*13
3	47.42	1722	3.00	2[-150*75*6.5*10
4	34.22	848	3.00	2[-125*65*6*8
5	23.84	376	3.00	2[-100*50*5*7.5
6	25.38	129	3.00	2L-75*75*9

【結合状態】 [kNm/rad] (登録No. 0は剛接)

No	回転バネ係数
1	0.0

【部材配置】 (断面No. が負値の材は、伸縮しない材を表します。)

No	/--節点No--/		断面No	材質No	/--結合No --/--		剛域 [cm] --/	
	i 端	j 端			i 端	j 端	i 端	j 端
1	1	2	1	1	0	0	0.0	0.0
2	2	3	1	1	0	0	0.0	0.0
3	3	4	1	1	0	0	0.0	0.0
4	4	5	1	1	0	0	0.0	0.0
5	5	6	1	1	0	0	0.0	0.0
6	6	7	2	1	0	0	0.0	0.0
7	7	8	2	1	0	0	0.0	0.0
8	8	9	2	1	0	0	0.0	0.0
9	9	10	2	1	0	0	0.0	0.0
10	10	11	2	1	0	0	0.0	0.0
11	11	12	2	1	0	0	0.0	0.0
12	12	13	2	1	0	0	0.0	0.0
13	13	14	2	1	0	0	0.0	0.0
14	14	15	2	1	0	0	0.0	0.0
15	15	16	2	1	0	0	0.0	0.0
16	16	17	2	1	0	0	0.0	0.0
17	17	18	2	1	0	0	0.0	0.0
18	18	19	2	1	0	0	0.0	0.0
19	19	20	2	1	0	0	0.0	0.0
20	20	21	1	1	0	0	0.0	0.0
21	21	22	1	1	0	0	0.0	0.0
22	22	23	1	1	0	0	0.0	0.0
23	23	24	1	1	0	0	0.0	0.0
24	24	25	1	1	0	0	0.0	0.0
31	31	32	2	1	0	0	0.0	0.0
32	32	33	2	1	0	0	0.0	0.0
33	33	34	2	1	0	0	0.0	0.0
34	34	35	2	1	0	0	0.0	0.0
35	35	36	2	1	0	0	0.0	0.0
36	36	37	2	1	0	0	0.0	0.0
37	37	38	2	1	0	0	0.0	0.0
38	38	39	2	1	0	0	0.0	0.0
39	39	40	2	1	0	0	0.0	0.0
40	40	41	2	1	0	0	0.0	0.0
41	41	42	2	1	0	0	0.0	0.0
42	42	43	2	1	0	0	0.0	0.0
43	43	44	2	1	0	0	0.0	0.0
44	44	45	2	1	0	0	0.0	0.0
45	45	46	2	1	0	0	0.0	0.0
46	46	47	2	1	0	0	0.0	0.0
47	47	48	2	1	0	0	0.0	0.0
48	48	49	2	1	0	0	0.0	0.0
49	49	50	2	1	0	0	0.0	0.0
50	50	51	2	1	0	0	0.0	0.0
51	51	52	2	1	0	0	0.0	0.0
52	52	53	2	1	0	0	0.0	0.0
53	53	54	2	1	0	0	0.0	0.0
54	54	55	2	1	0	0	0.0	0.0
61	1	31	3	1	1	1	0.0	0.0
62	2	32	4	1	1	1	0.0	0.0
63	3	33	3	1	1	1	0.0	0.0
64	4	34	5	1	1	1	0.0	0.0
65	5	35	6	1	1	1	0.0	0.0
66	6	36	5	1	1	1	0.0	0.0
67	7	37	5	1	1	1	0.0	0.0

No	/--節点No--/		断面No	材質No	/--結合No --/		/--剛域 [cm] --/	
	i 端	j 端			i 端	j 端	i 端	j 端
68	8	38	5	1	1	1	0.0	0.0
69	9	39	5	1	1	1	0.0	0.0
70	11	41	5	1	1	1	0.0	0.0
71	12	42	5	1	1	1	0.0	0.0
72	13	43	5	1	1	1	0.0	0.0
73	14	44	5	1	1	1	0.0	0.0
74	15	45	5	1	1	1	0.0	0.0
75	17	47	5	1	1	1	0.0	0.0
76	18	48	5	1	1	1	0.0	0.0
77	19	49	5	1	1	1	0.0	0.0
78	20	50	5	1	1	1	0.0	0.0
79	21	51	6	1	1	1	0.0	0.0
80	22	52	5	1	1	1	0.0	0.0
81	23	53	3	1	1	1	0.0	0.0
82	24	54	4	1	1	1	0.0	0.0
83	25	55	3	1	1	1	0.0	0.0
91	1	32	3	1	1	1	0.0	0.0
92	2	33	3	1	1	1	0.0	0.0
93	33	4	4	1	1	1	0.0	0.0
94	4	35	4	1	1	1	0.0	0.0
95	35	6	4	1	1	1	0.0	0.0
96	6	37	4	1	1	1	0.0	0.0
97	37	8	5	1	1	1	0.0	0.0
98	8	39	5	1	1	1	0.0	0.0
99	39	11	5	1	1	1	0.0	0.0
100	41	12	5	1	1	1	0.0	0.0
101	12	43	5	1	1	1	0.0	0.0
102	43	14	5	1	1	1	0.0	0.0
103	14	45	5	1	1	1	0.0	0.0
104	15	47	5	1	1	1	0.0	0.0
105	47	18	5	1	1	1	0.0	0.0
106	18	49	5	1	1	1	0.0	0.0
107	49	20	4	1	1	1	0.0	0.0
108	20	51	4	1	1	1	0.0	0.0
109	51	22	4	1	1	1	0.0	0.0
110	22	53	4	1	1	1	0.0	0.0
111	53	24	3	1	1	1	0.0	0.0
112	54	25	3	1	1	1	0.0	0.0

【荷重ケース 1】DL+LL

No	/--節点, 部材No. --/			TYPE	方向	P 1	P 2	P 3	P 4	P 5	P 6
	<1>	<2>	<3>								
1	31	55	0			0.000kN	-65.600kN	0.000kNm			
2	32	54	0			0.000kN	-15.700kN	0.000kNm			
3	33	53	0			0.000kN	-97.700kN	0.000kNm			
4	34	52	0			0.000kN	-14.300kN	0.000kNm			
5	35	51	0			0.000kN	-70.800kN	0.000kNm			
6	36	50	0			0.000kN	-14.300kN	0.000kNm			
7	37	49	0			0.000kN	-35.000kN	0.000kNm			
8	38	48	0			0.000kN	-10.500kN	0.000kNm			
9	39	47	0			0.000kN	-16.400kN	0.000kNm			
10	41	45	0			0.000kN	-54.000kN	0.000kNm			

【支点反力】

※※ 荷重ケース 1 ※※ DL+LL

節点No	Rx [kN]	Ry [kN]	Rm [kNm]
3	400.4	394.3	0.0
23	-400.4	394.3	0.0
合計	0.0	788.6	0.0

68

【節点変位】

※※ 荷重ケース 1 ※※ DL+LL

節点No	δx [cm]	δy [cm]	θ [rad]	節点No	δx [cm]	δy [cm]	θ [rad]
1	0.154574	-0.509803	0.00095865	31	0.071204	-0.520649	0.00095163
2	0.081641	-0.232885	0.00118792	32	0.017428	-0.250847	0.00106958
3	0.000000	0.000000	-0.00016793	33	0.002578	-0.048274	-0.00018560
4	-0.026723	-0.308493	-0.00156620	34	0.063591	-0.312190	-0.00150639
5	0.013054	-0.687217	-0.00140175	35	0.146944	-0.687226	-0.00146050
6	0.040451	-1.004040	-0.00106771	36	0.166890	-1.007882	-0.00096381
7	0.057010	-1.207184	-0.00080179	37	0.162360	-1.205662	-0.00078889
8	0.071337	-1.400066	-0.00040184	38	0.146301	-1.402128	-0.00041095
9	0.047220	-1.414586	0.00001618	39	0.093745	-1.415296	0.00016561
10	0.038283	-1.440861	0.00059538	40	0.069269	-1.426596	-0.00073952
11	0.033118	-1.485455	-0.00069212	41	0.059521	-1.490084	-0.00089556
12	0.010631	-1.556004	-0.00007553	42	0.019840	-1.556115	-0.00001387
13	0.000000	-1.554373	0.00000000	43	0.000000	-1.552363	0.00000000
14	-0.010631	-1.556004	0.00007553	44	-0.019840	-1.556115	0.00001387
15	-0.033118	-1.485455	0.00069212	45	-0.059521	-1.490084	0.00089556
16	-0.038283	-1.440861	0.00059538	46	-0.069269	-1.426596	0.00073952
17	-0.047220	-1.414586	-0.00001618	47	-0.093745	-1.415296	-0.00016561
18	-0.071337	-1.400066	0.00040184	48	-0.146301	-1.402128	0.00041095
19	-0.057010	-1.207184	0.00080179	49	-0.162360	-1.205662	0.00078889
20	-0.040451	-1.004040	0.00106771	50	-0.166890	-1.007882	0.00096381
21	-0.013054	-0.687217	0.00140175	51	-0.146944	-0.687226	0.00146050
22	0.026723	-0.308493	0.00156620	52	-0.063591	-0.312190	0.00150639
23	0.000000	0.000000	0.00016793	53	-0.002578	-0.048274	0.00018560
24	-0.081641	-0.232885	-0.00118792	54	-0.017428	-0.250847	-0.00106958
25	-0.154574	-0.509803	-0.00095865	55	-0.071204	-0.520649	-0.00095163

【部材応力】

※※ 荷重ケース 1 ※※ DL+LL

部材No	節点No		M [kNm]		Q [kN]		N [kN]		
	i 端	j 端	i 端	中央	j 端	i 端	j 端	i 端	j 端
1	1	2	0.0	1.8	3.6	1.3	-1.3	117.2	-117.2
2	2	3	-3.6	-10.7	-25.1	-10.3	10.3	231.5	-231.5
3	3	4	25.1	-12.2	0.7	10.2	-10.2	643.9	-643.9
4	4	5	-0.7	1.4	2.2	0.6	-0.6	261.9	-261.9
5	5	6	-2.2	2.9	3.6	0.6	-0.6	261.9	-261.9
6	6	7	-3.6	1.0	-1.6	-2.1	2.1	121.8	-121.8
7	7	8	1.6	1.5	4.7	2.5	-2.5	122.7	-122.7
8	8	9	-4.7	1.6	-1.5	-2.4	2.4	136.7	-136.7
9	9	10	1.5	-4.4	-7.4	-4.5	4.5	136.3	-136.3
10	10	11	7.4	-1.9	3.7	22.3	-22.3	134.5	-134.5
11	11	12	-3.7	3.0	2.3	-0.7	0.7	146.4	-146.4
12	12	13	-2.3	0.7	-0.8	-3.1	3.1	138.5	-138.5
13	13	14	0.8	0.7	2.3	3.1	-3.1	138.5	-138.5
14	14	15	-2.3	3.0	3.7	0.7	-0.7	146.4	-146.4
15	15	16	-3.7	-1.9	-7.4	-22.3	22.3	134.5	-134.5
16	16	17	7.4	-4.4	-1.5	4.5	-4.5	136.3	-136.3
17	17	18	1.5	1.6	4.7	2.4	-2.4	136.7	-136.7
18	18	19	-4.7	1.5	-1.6	-2.5	2.5	122.7	-122.7
19	19	20	1.6	1.0	3.6	2.1	-2.1	121.8	-121.8
20	20	21	-3.6	2.9	2.2	-0.6	0.6	261.9	-261.9
21	21	22	-2.2	1.4	0.7	-0.6	0.6	261.9	-261.9
22	22	23	-0.7	-12.2	-25.1	-10.2	10.2	643.9	-643.9
23	23	24	25.1	-10.7	3.6	10.3	-10.3	231.5	-231.5
24	24	25	-3.6	1.8	0.0	-1.3	1.3	117.2	-117.2
31	31	32	0.0	0.4	0.8	0.3	-0.3	0.1	-0.1
32	32	33	-0.8	-4.4	-9.5	-3.7	3.7	-117.7	117.7
33	33	34	9.5	-5.1	-0.6	3.5	-3.5	-41.6	41.6
34	34	35	0.6	0.2	0.9	0.6	-0.6	-42.2	42.2
35	35	36	-0.9	1.9	2.9	0.8	-0.8	223.6	-223.6
36	36	37	-2.9	0.7	-1.5	-1.7	1.7	223.1	-223.1

部材No	ノ節点No		M [kNm]			Q [kN]		N [kN]	
	i 端	j 端	i 端	中央	j 端	i 端	j 端	i 端	j 端
37	37	38	1.5	1.4	4.4	2.4	-2.4	280.1	-280.1
38	38	39	-4.4	2.2	0.0	-1.8	1.8	279.2	-279.2
39	39	40	0.0	-6.6	-13.2	-9.9	9.9	257.0	-257.0
40	40	41	13.2	-3.0	7.1	40.6	-40.6	253.9	-253.9
41	41	42	-7.1	4.3	1.4	-2.9	2.9	258.4	-258.4
42	42	43	-1.4	0.1	-1.1	-2.5	2.5	258.4	-258.4
43	43	44	1.1	0.1	1.4	2.5	-2.5	258.4	-258.4
44	44	45	-1.4	4.3	7.1	2.9	-2.9	258.4	-258.4
45	45	46	-7.1	-3.0	-13.2	-40.6	40.6	253.9	-253.9
46	46	47	13.2	-6.6	0.0	9.9	-9.9	257.0	-257.0
47	47	48	0.0	2.2	4.4	1.8	-1.8	279.2	-279.2
48	48	49	-4.4	1.4	-1.5	-2.4	2.4	280.1	-280.1
49	49	50	1.5	0.7	2.9	1.7	-1.7	223.1	-223.1
50	50	51	-2.9	1.9	0.9	-0.8	0.8	223.6	-223.6
51	51	52	-0.9	0.2	-0.6	-0.6	0.6	-42.2	42.2
52	52	53	0.6	-5.1	-9.5	-3.5	3.5	-41.6	41.6
53	53	54	9.5	-4.4	0.8	3.7	-3.7	-117.7	117.7
54	54	55	-0.8	0.4	0.0	-0.3	0.3	0.1	-0.1
61	1	31	0.0	0.0	0.0	0.0	0.0	65.9	-65.9
62	2	32	0.0	0.0	0.0	0.0	0.0	78.8	-78.8
63	3	33	0.0	0.0	0.0	0.0	0.0	293.3	-293.3
64	4	34	0.0	0.0	0.0	0.0	0.0	11.3	-11.3
65	5	35	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	6	36	0.0	0.0	0.0	0.0	0.0	11.7	-11.7
67	7	37	0.0	0.0	0.0	0.0	0.0	-4.6	4.6
68	8	38	0.0	0.0	0.0	0.0	0.0	6.3	-6.3
69	9	39	0.0	0.0	0.0	0.0	0.0	2.2	-2.2
70	11	41	0.0	0.0	0.0	0.0	0.0	14.1	-14.1
71	12	42	0.0	0.0	0.0	0.0	0.0	0.3	-0.3
72	13	43	0.0	0.0	0.0	0.0	0.0	-6.1	6.1
73	14	44	0.0	0.0	0.0	0.0	0.0	0.3	-0.3
74	15	45	0.0	0.0	0.0	0.0	0.0	14.1	-14.1
75	17	47	0.0	0.0	0.0	0.0	0.0	2.2	-2.2
76	18	48	0.0	0.0	0.0	0.0	0.0	6.3	-6.3
77	19	49	0.0	0.0	0.0	0.0	0.0	-4.6	4.6
78	20	50	0.0	0.0	0.0	0.0	0.0	11.7	-11.7
79	21	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	22	52	0.0	0.0	0.0	0.0	0.0	11.3	-11.3
81	23	53	0.0	0.0	0.0	0.0	0.0	293.3	-293.3
82	24	54	0.0	0.0	0.0	0.0	0.0	78.8	-78.8
83	25	55	0.0	0.0	0.0	0.0	0.0	65.9	-65.9
91	1	32	0.0	0.0	0.0	0.0	0.0	-145.9	145.9
92	2	33	0.0	0.0	0.0	0.0	0.0	-145.4	145.4
93	33	4	0.0	0.0	0.0	0.0	0.0	-205.3	205.3
94	4	35	0.0	0.0	0.0	0.0	0.0	242.6	-242.6
95	35	6	0.0	0.0	0.0	0.0	0.0	-82.6	82.6
96	6	37	0.0	0.0	0.0	0.0	0.0	80.5	-80.5
97	37	8	0.0	0.0	0.0	0.0	0.0	7.0	-7.0
98	8	39	0.0	0.0	0.0	0.0	0.0	-10.9	10.9
99	39	11	0.0	0.0	0.0	0.0	0.0	14.8	-14.8
100	41	12	0.0	0.0	0.0	0.0	0.0	-5.7	5.7
101	12	43	0.0	0.0	0.0	0.0	0.0	6.6	-6.6
102	43	14	0.0	0.0	0.0	0.0	0.0	6.6	-6.6
103	14	45	0.0	0.0	0.0	0.0	0.0	-5.7	5.7
104	15	47	0.0	0.0	0.0	0.0	0.0	14.8	-14.8
105	47	18	0.0	0.0	0.0	0.0	0.0	-10.9	10.9
106	18	49	0.0	0.0	0.0	0.0	0.0	7.0	-7.0
107	49	20	0.0	0.0	0.0	0.0	0.0	80.5	-80.5
108	20	51	0.0	0.0	0.0	0.0	0.0	-82.6	82.6
109	51	22	0.0	0.0	0.0	0.0	0.0	242.6	-242.6
110	22	53	0.0	0.0	0.0	0.0	0.0	-205.3	205.3
111	53	24	0.0	0.0	0.0	0.0	0.0	-145.4	145.4
112	54	25	0.0	0.0	0.0	0.0	0.0	-145.9	145.9



Roof load.

finish	600	}	2,200 $\frac{\text{N}}{\text{m}^2}$
Roof frame	1,200		
PV	500		

$$45 \times 45 \times 2.3 = 4658 \text{ kN}$$

2 Floor load. $8.0 \frac{\text{kN}}{\text{m}^2} \times 2 = 16 \frac{\text{kN}}{\text{m}^2}$

FD. Foundation $5 \text{ m} \times 5 \text{ m}$

$$\text{Total axial force.} = \frac{4658}{4} / 5 + 16 = 62.6 \frac{\text{kN}}{\text{m}^2}$$

$< 100 \frac{\text{kN}}{\text{m}^2}$

SC-7

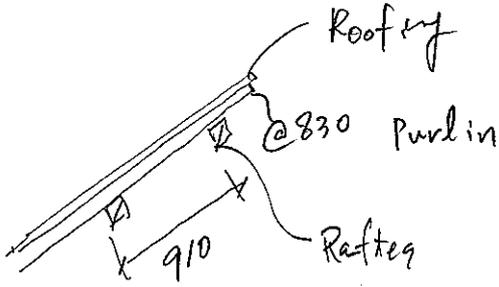
OK

No. 22. President office.

- PV パネルと受け材の重量を 0.5 kN/m^2 とする。
- 既存は母屋、垂木材を確認する。
- 主要構造部材は追加重量が 0.5 kN/m^2 なので安全性に問題はない。

1. 既存部材の検討
President Office.

The examination of the existent member



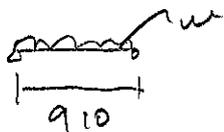
Weight.

Roofing + bond.	150		
Purlin	50		
Rafters	100	200	300

PV panel + Support

$$\frac{500}{800} \text{ N/m}^2$$

for Purlin



$$w = 0.7 \text{ kN/m}^2 \times 0.83 = 0.6 \text{ kN/m}$$

$$M = \frac{1}{8} \times 0.6 \times 0.91^2 = 0.062 \text{ kNm}$$

$$Q = \frac{1}{2} \times 0.6 \times 0.91 = 0.28 \text{ kN}$$

$$I - 50 \times 50$$

$$I_x = \frac{50 \times 50^3}{12} = 520,830 \text{ mm}^4$$

$$Z_x = \frac{50 \times 50^2}{6} = 20,830 \text{ mm}^3$$

$$E = 8000 \text{ N/mm}^2$$

$$A = 2500 \text{ mm}^2$$

$$f_b = \frac{2}{3} \times 1.1 = 0.73$$

$$f_t = 2.1$$

$$\sigma_b = \frac{0.062 \times 10^6}{20830} = 3.0 \text{ N/mm}^2$$

$$\sigma_b / f_b = 0.4 < 1.0$$

$$\tau_s = \frac{0.28 \times 10^3}{2500} = 0.12 < 2.1$$

OK

$$I_{max} = \frac{5 \times 0.6 \times 910^4}{384 \times 8000 \times 520,830} = 1.3 \text{ mm} = \frac{1}{700} \text{ mm}$$

3. 屋根鉄骨部材の算定

母屋 Rafters

Timber



部材		□ - 150	x 50		
span				Span	pitch
スパン L (m), ピッチ (m)				2.80	0.91
Load				2.00	
荷重 Wg (KN/m ²)				0.80	
Bending Moment					
曲げモーメント xMg (KN·m)		$\omega \cdot \sin \theta \cdot L^2 / 8 =$		0.18	
	yMg (KN·m)	$\omega \cdot \cos \theta \cdot L^2 / 8 =$		0.62	
Shear force					
せん断力 yQg (KN)		$\omega \cdot \cos \theta \cdot L / 2 =$		0.90	
断面性能					
Iy (cm ⁴)				1400	
Ix (cm ⁴)				155	
Zy (cm ³)				185	
Zx (cm ³)				62	
許容曲げ応力度 fb (KN/cm ²)					
				0.77	
曲げ応力度 $x \sigma b = xM / Zx$ (KN/cm ²)					
				0.3	
曲げ応力度 $y \sigma b = yM / Zy$ (KN/cm ²)					
				0.34	
応力度比 $(x \sigma b + y \sigma b) / fb \leq 1$					
				0.83	≤ 1 OK
撓み δg (cm)					
				0.67	
$\delta / L \geq 300$					
				418	≥ 300 OK

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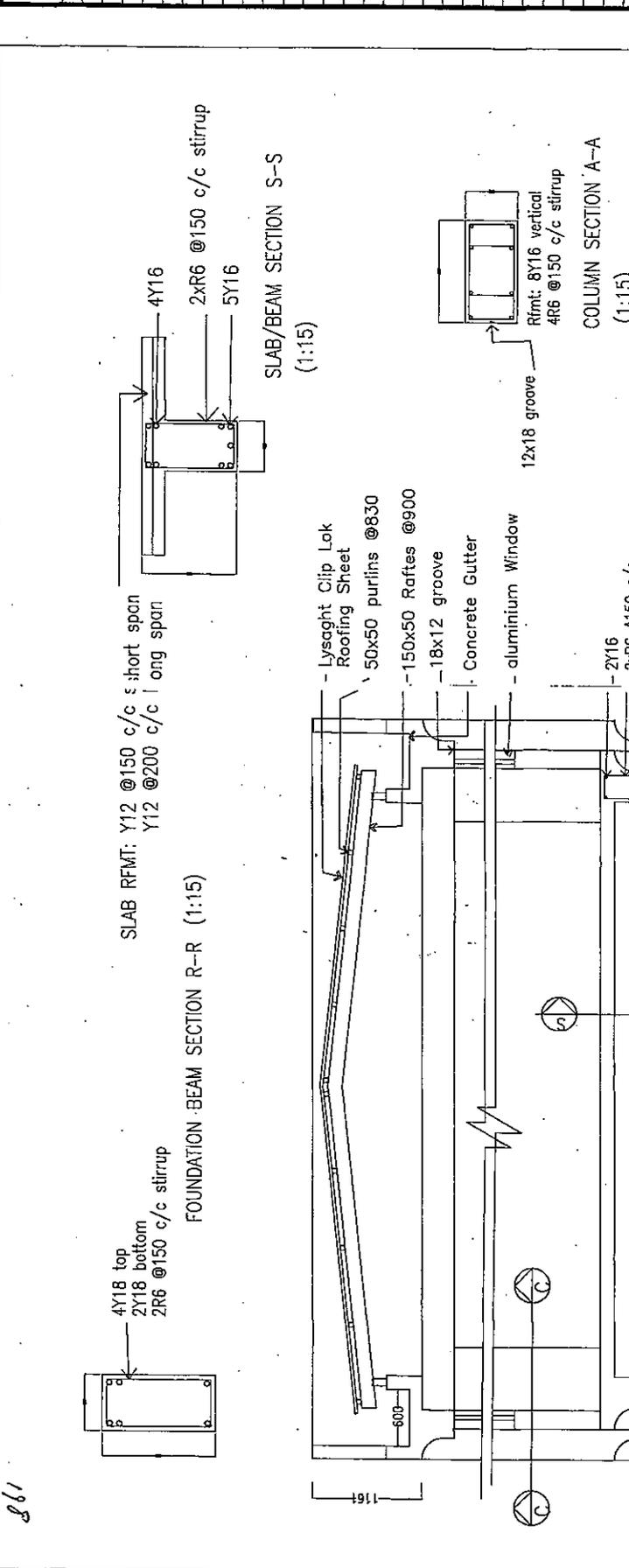
母屋



部材 □ - 150 x 50

スパン L (m), ピッチ (m)		2.80	0.91
		2.00	
荷重 Wg (KN/m ²)		0.80	
曲げモーメント xMg (KN・m)	$\omega \cdot \text{SIN } \theta \cdot L^2 / 8 =$	0.09	
yMg (KN・m)	$\omega \cdot \text{COS } \theta \cdot L^2 / 8 =$	0.69	
せん断力 yQg (KN)	$\omega \cdot \text{COS } \theta \cdot L / 2 =$	1.00	
断面性能 Iy (cm ⁴)		1400	
Ix (cm ⁴)		155	
Zy (cm ³)		185	
Zx (cm ³)		62	
許容曲げ応力度 fb (KN/cm ²)		0.77	
曲げ応力度 xσb = xM/Zx (KN/cm ²)		0.15	
曲げ応力度 yσb = yM/Zy (KN/cm ²)		0.38	
応力度比 (xσb+yσb)/fb ≤ 1		0.69	≤ 1 OK
撓み δg (cm)		0.85	
δ/L ≥ 300		329	≥ 300 OK

NOTES / CHANGES:



CLIENT:	PRESIDENT'S OFFICE
PROJECT:	PRESIDENT'S OFFICE FOUR-STOREY EXTENSION
CONTENTS:	STRUCTURAL DETAILS
ARCHITECT:	
ENGINEER:	
DESIGNED BY:	
DRAWN BY:	
SCALE:	AS GIVEN
DATE:	MARCH 92
FILE NAME:	FACESS.DWG
CHECKED BY:	
DWG NO.:	3/3

OPPD
OFFICE FOR PHYSICAL
PLANNING AND DESIGN

110, ROBINSON ROAD, SINGAPORE 068817
TEL: 8847433 FAX: 8847434

DETAIL CROSS SECTION (1:25)

