

GENERAL NOTES

FOUNDATIONS

Soil investigation prepared by Trow Ltd. Project: H4891-6

All footings (except as noted) are designed for a maximum soil bearing capacity of 100 kpa.

All footing excavations are to be inspected by the Architect or Engineer prior to placing of concrete.

Excavate first for those footings shown at the deepest elevations, working up to the highest elevations.

Protect existing foundations from loss of support during construction of new footings.

All footings subject to frost action shall be carried down a minimum of 1200 below finished grade.

Stepped footings are to be constructed at the locations shown on the drawings. Slope of step shall have a maximum rise to run ratio of 1 to 2 unless noted.

If soil conditions on site or special job conditions require lowering of footings advise the Architect or Engineer before proceeding.

Soil supporting footings and slabs shall be protected from freezing before and after concrete is poured.

Exterior basement walls are not to be back-filled and compacted until basement and main floor slabs are poured and set.

Backfill and compact walls below grade in such a way that the level on one side is never more than 450 above the other side.

FORMWORK

The Contractor shall submit to the Architect or Engineer complete structural slab formwork and reinforcing drawings for review prior to commencement of construction.

CONCRETE

All concrete work has been designed in accordance with C.S.A. Standard A23.3 - 1973.

Concrete requirements are as follows:

Mix Location	Min. Strength at 28 days	Mpa
Typical	20	
Beams adjacent to Block E	30	

Reinforcing steel requirements are as follows:

Location or Size	Min. Yield Length	Remarks
Deformed Bars	400 Mpa	36 # Unless noted.
W. W. Mesh	400 Mpa	300

Detailing and placing of all reinforcing steel shall be in accordance with the Reinforcing Steel Institute of Ontario "Manual of Standard Practice".

All concrete materials and methods of concrete construction shall be in accordance with C.S.A. Standard A23.1 - 1973 unless noted.

Testing of concrete shall comply with the requirements of C.S.A. Standard A23.2 - 1973.

Lap all temperature reinforcing 36 bar diameters for yield strength of 400.

Concrete protection for reinforcement unless noted:

Concrete deposited against earth	75
Formed concrete exposed to weather or in contact with earth	40
Formed concrete not exposed to weather nor in contact with earth	25
slabs and walls	13
columns ties and spirals	13

Provide sufficient support bars on high chairs, slab bolsters, and other accessories to maintain the reinforcing steel in the required positions with proper clearances before and during placing of concrete. Tie bars at all intersections.

All openings for mechanical and electrical trades shall be approved by the Architect or Engineer for size and location before placement of concrete.

Add 2 - 15 bars top and bottom at perimeter of all openings in concrete slabs, and extend bars 600 past opening each side.

Add 2 - 15 bars each face at perimeter of all openings in concrete walls, and extend bars 600 past opening each side.

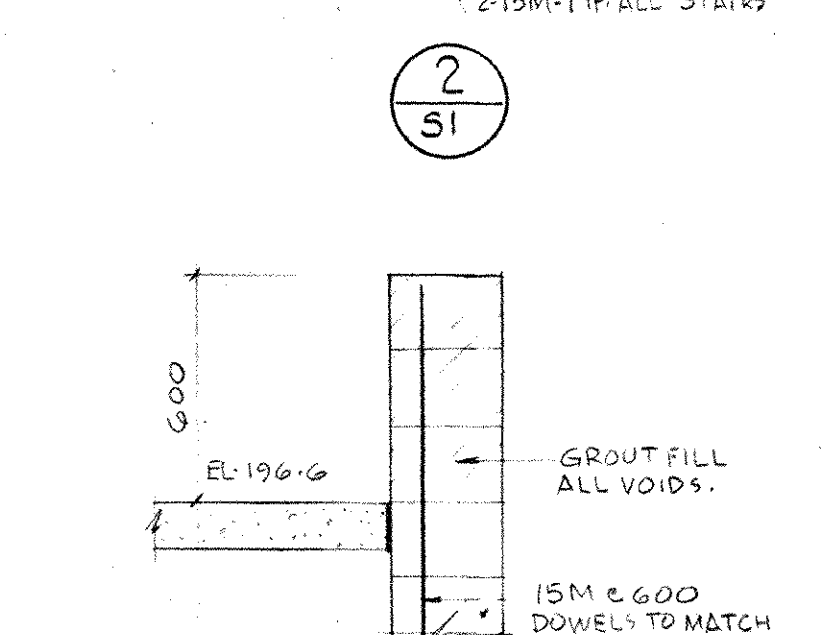
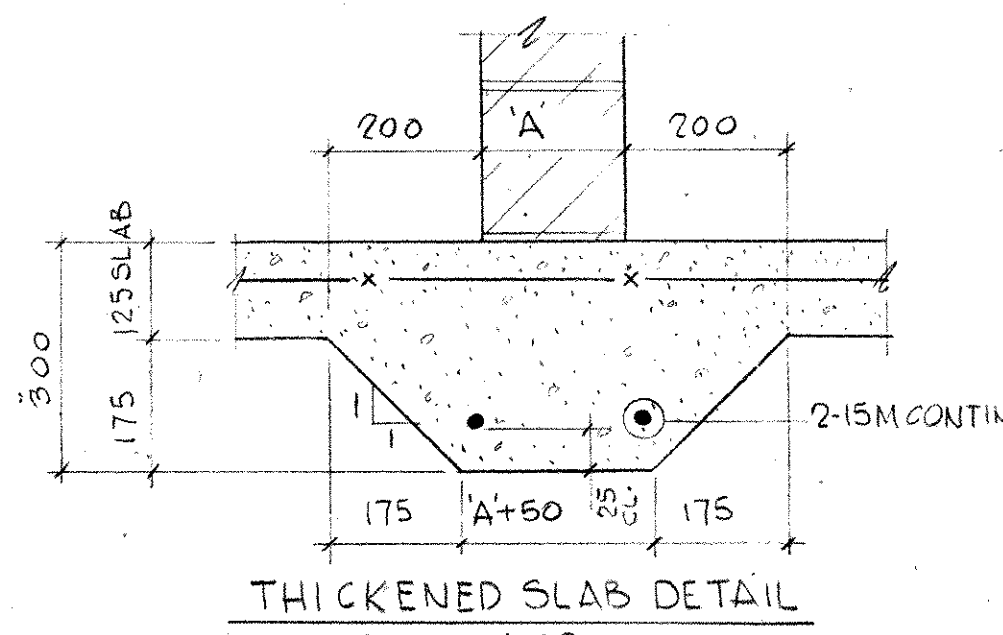
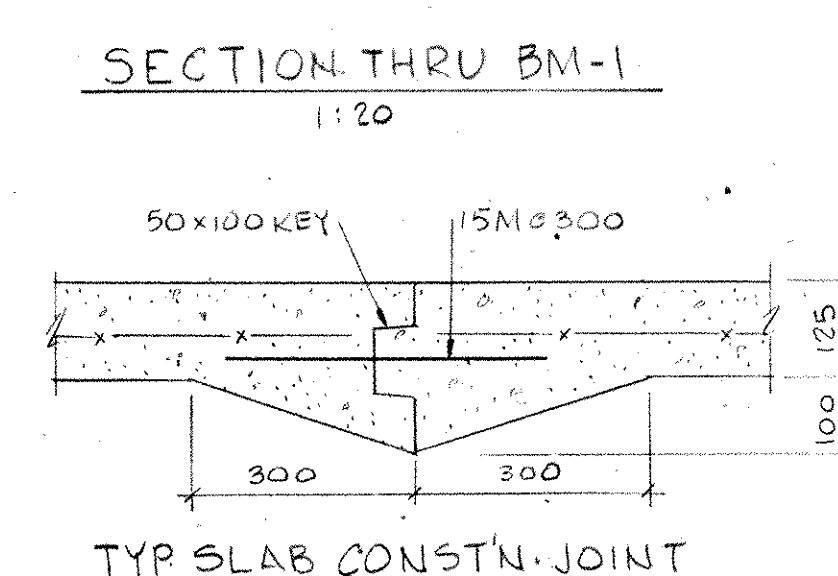
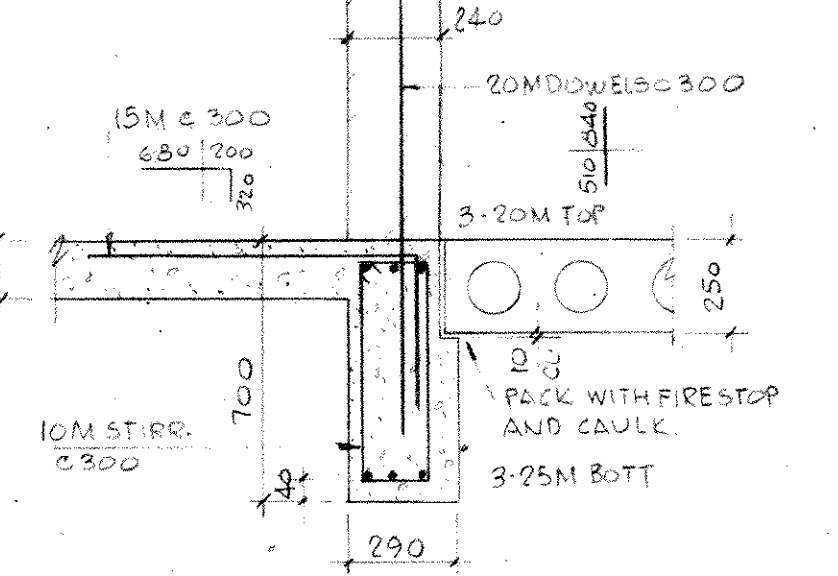
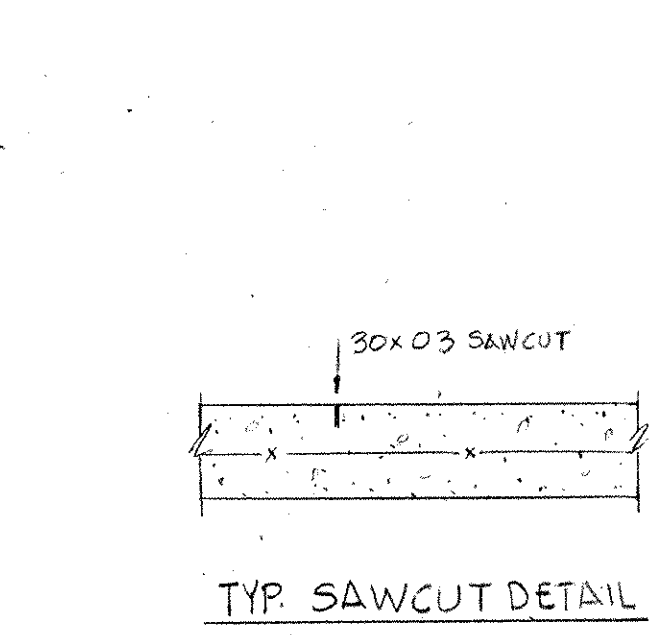
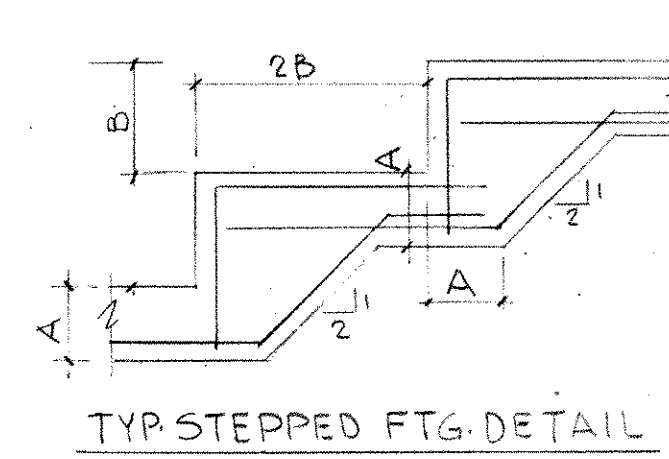
No sleeves are to be placed through concrete beams without approval by the Architect or Engineer.

Embedment of conduits and pipes shall be in accordance with the requirements of C.S.A. Standard A23.3 - 1973.

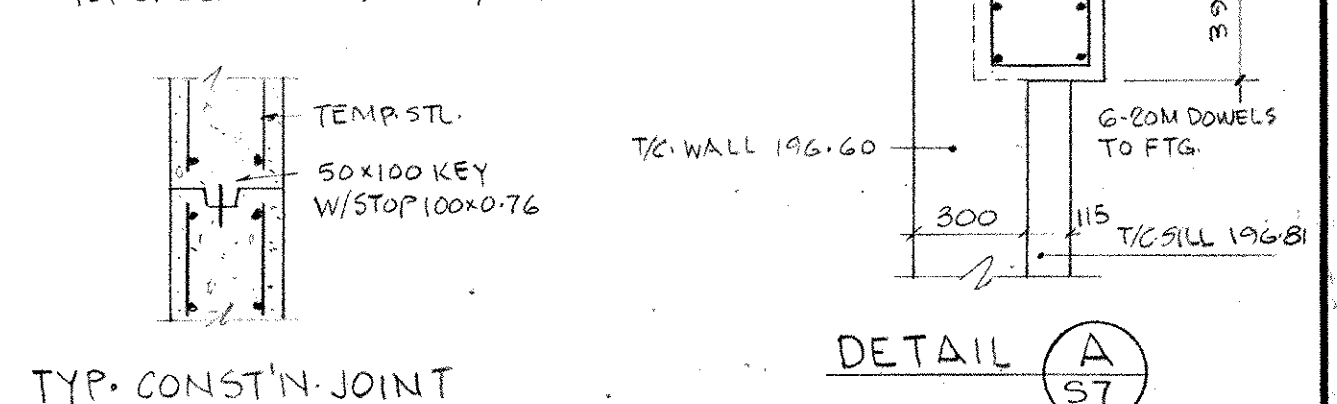
Provide dovetail anchor slots for masonry anchors in all concrete walls and columns faced with block or brick masonry as detailed on the drawings. Masonry anchors shall be galvanized after fabrication.

FOUNDATION & FIRST FLOOR PLAN
SCALE = 1:100
(290) = BLOCK WALL ABOVE.

SPLIT RIB (G) THICKNESS	TYPICAL BLOCK WALL REINFORCING			
	BLOCK THICKNESS	VERTICAL REINF.	HORIZONTAL REINF.	NON-BRG BLK PARTS REINFORCING
190	140	15M @ 800	HEAVY DUTY LADDER TYPE @ 400.	HEAVY DUTY LADDER TYPE @ 400.
240 & 290	240	20M @ 800	EXTRA HEAVY DUTY TRUSS TYPE @ 400.	EXTRA HEAVY DUTY TRUSS @ 400.
	290	25M @ 1200	HEAVY DUTY LADDER TYPE @ 200.	HEAVY DUTY LADDER TYPE @ 200.
140		10M @ 600	W/D LADDER TYPE @ 200	W/D LADDER TYPE @ 200



BASEMENT PLAN
TOP OF SLAB EL. 195.60 UNNOTED.



APR 25/84 AS BUILT

NO	DATE	REVISION

michael torsney architects

suite 202 131 john street s. hamilton, ontario L8N 2C3

SCALE AS NOTED DRN. W.N. JOB NO. 8403

DATE OCT. 1984

MOHAWK COLLEGE STUDENT CENTRE

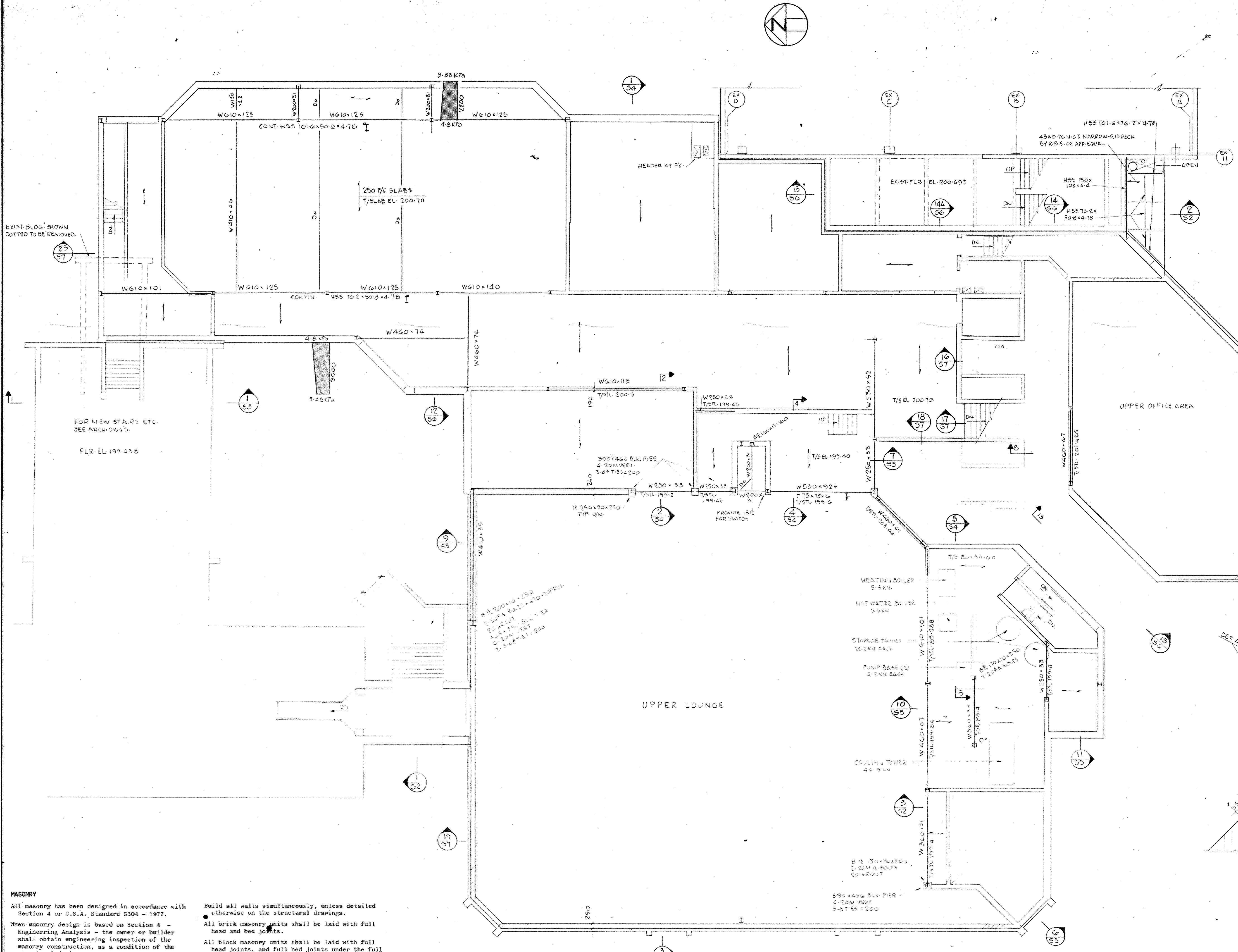
HAMILTON, ONTARIO

BASEMENT, FOUNDATION & FIRST FLOOR PLANS PHASE - I

PARKER CONSULTANTS Consulting Professional Engineers Hamilton Ottawa

PROJECT NO 3242

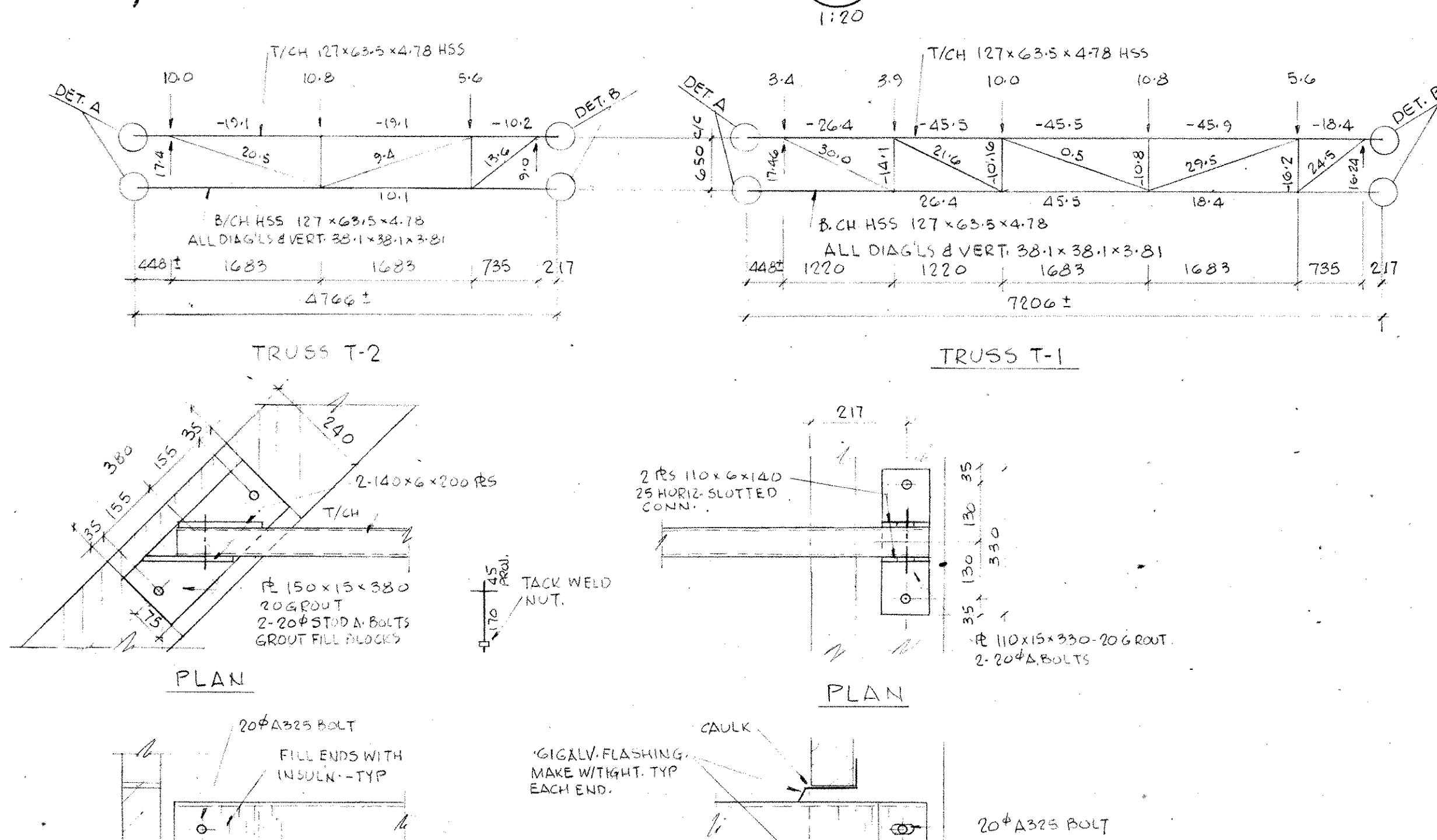
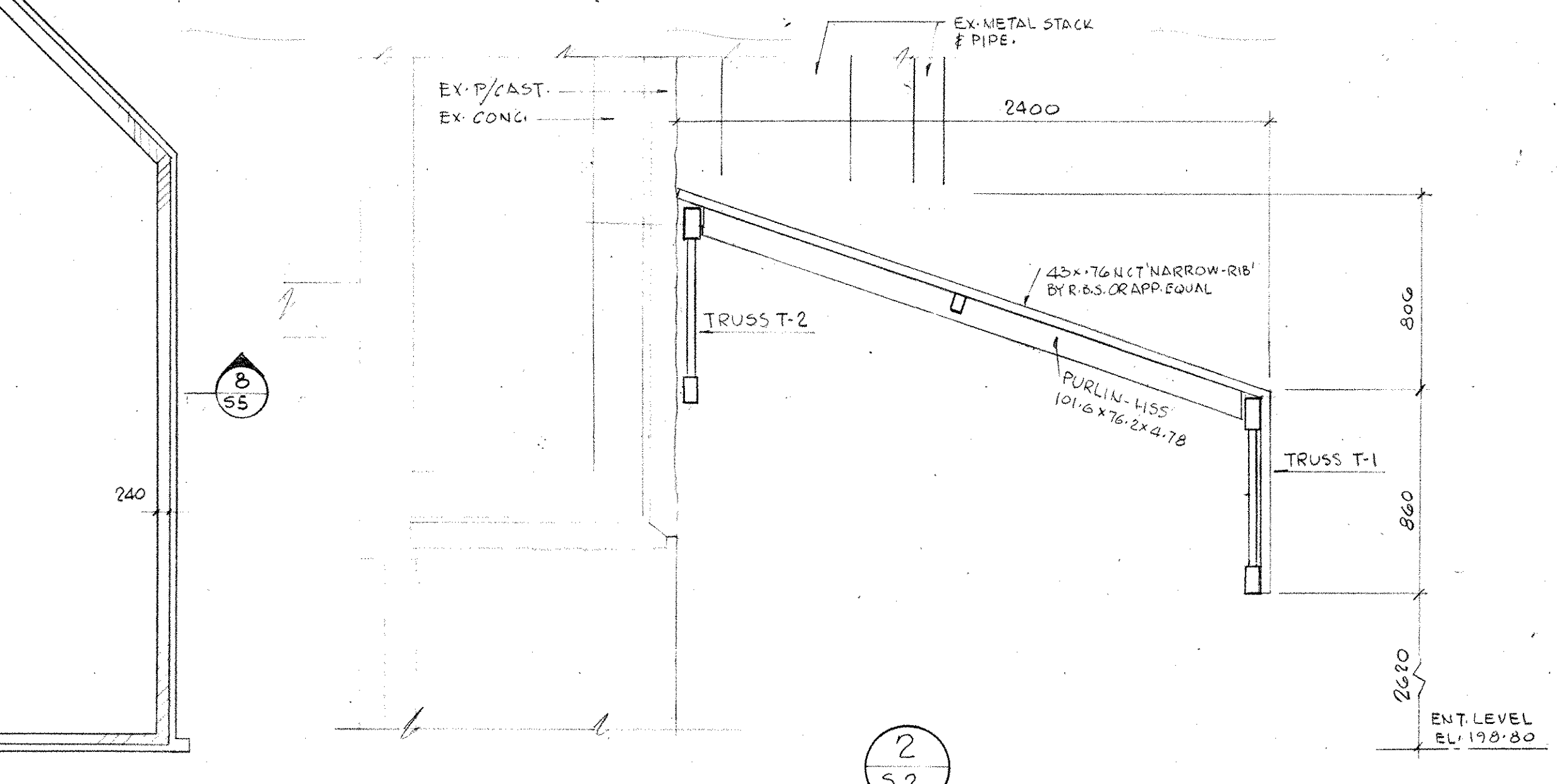
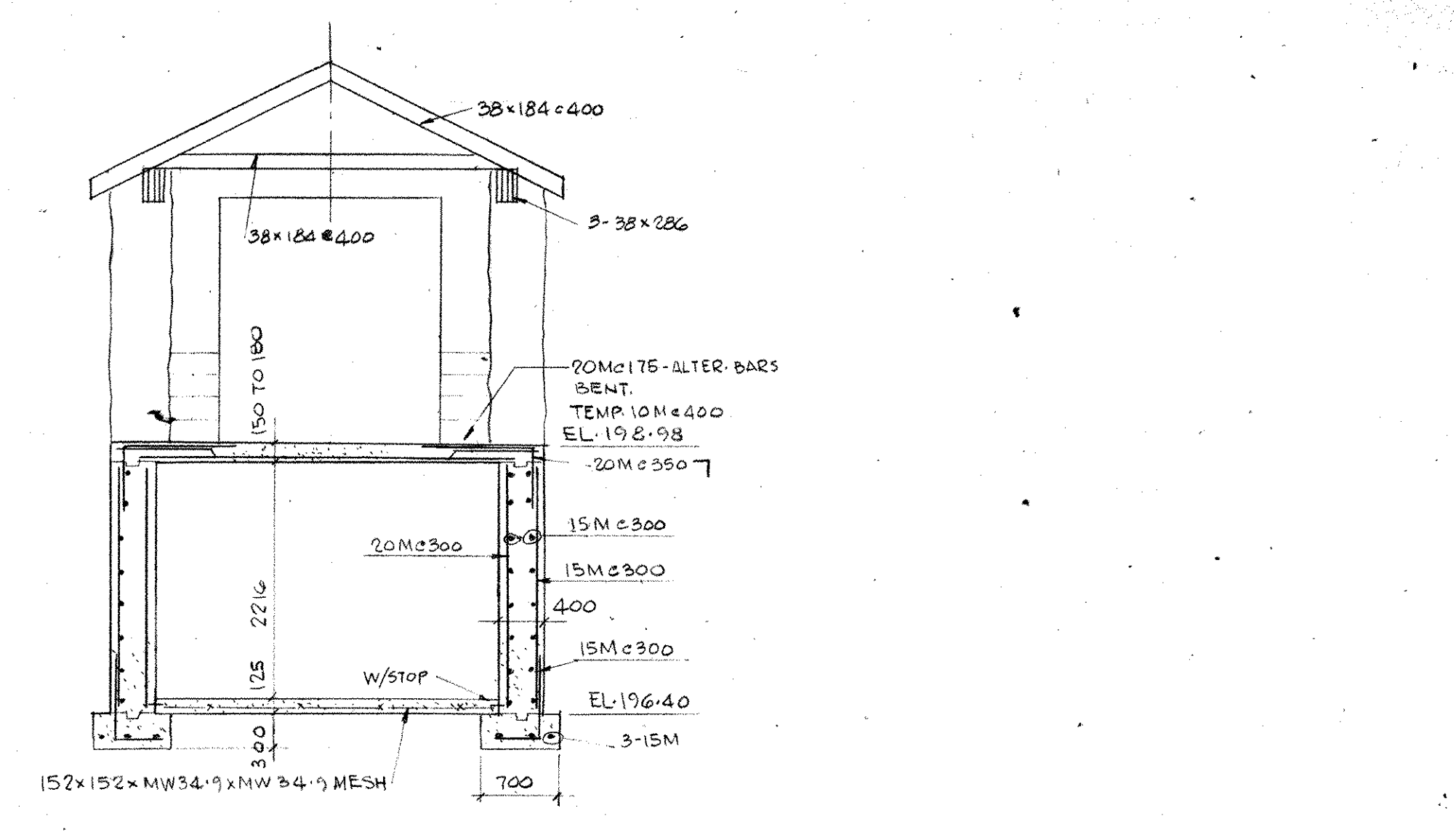
MICHAEL J. TORSNEY ARCHITECT



SECOND FLOOR FRAMING PLAN
SCALE=1:100

NOTE-ALL PRECAST SLABS 200 UNLESS NOTED
TOP OF P/C SLAB EL. 200.70 U.N.
TOP OF STEEL EL. 200.50 U.N.

SECOND FLOOR DESIGN LOADS - PHASE 1					
ITEM	AREA	TYPICAL	TYPICAL	MECH. ROOM	CORRIDOR
FLOORING		0.1	0.1	1.02	0.1
200 P/C SLAB		2.66		2.66	2.66
250 P/C SLAB			3.66		
CEILING		.12	.12	.12	.12
MECH. & ELECT.		.239	.239	.239	.239
PARTS/EQUIPT.		.957	.957	.957	.957
LIVE LOAD		2.4	2.4	3.6	4.3
TOTAL		6.48 KPa	7.48 KPa	8.40 KPa	7.92 KPa



MASONRY
All masonry has been designed in accordance with Section 4 or C.S.A. Standard S304 - 1977.
When masonry design is based on Section 4 - Engineering Analysis - the owner or builder shall obtain engineering inspection of the masonry construction, as a condition of the structural design.
Materials used in masonry construction shall conform to Section 3.3 of the above standard.
Construction of masonry shall conform to the appropriate requirements of the above standard.
All clay brick masonry units shall comply with the requirements of C.S.A. Standard A82.1 - 1985. For compressive strength refer to specifications.
All concrete block masonry units shall comply with the requirements of C.S.A. Standard A165.1 - 1972. Refer to the drawings for block classifications.
A "hollow" block unit means a structural masonry unit with a net cross-sectional area less than 75 percent of its gross area in any plane parallel to its bearing surface. (Symbol "H")
A "solid" block unit means a structural masonry unit with a net cross-sectional area of at least 75 percent of its gross area in any plane parallel to its bearing surface.
The Contractor shall supply the Architect or Engineer with certification from the brick and block suppliers indicating conformance to the drawings and/or specifications.
Mortar types as referred to on the structural drawings shall be as follows:

Type	Min. Avg. Comp. Strength	Composition in parts by Vol.
M	17.5	1 Part Cement, 3 Parts Sand
S	12.5	1 Part Cement, 4 Parts Sand

Build all walls simultaneously, unless detailed otherwise on the structural drawings.
All brick masonry units shall be laid with full head and bed joints.
All block masonry units shall be laid with full head joints, and full bed joints under the full bearing areas of the face shells, and under webs surrounding those cells to be filled with grout.
The maximum thickness of a mortar joint in load-bearing masonry shall be 12.
The intersection of all masonry walls shall be bonded. See structural drawings for bonding details.
Block masonry supporting steel beams or joists shall have their voids filled with "M" type mortar or equivalent strength concrete. Fill voids of two supporting courses by a minimum of two block widths.
To ensure proper drainage, the cavity in a cavity wall or a veneer wall shall be kept free of mortar droppings.
Frozen materials or materials containing ice shall not be used in masonry.
Masonry shall not be laid when the temperature of the outside air is below 4°C, unless means approved by the Architect or Engineer are provided to heat the masonry materials, and protect the completed work.
Unprotected masonry exposed to the weather shall be covered on the top surface with a water-proof material, except when construction is in progress.
This Contractor shall be responsible to provide adequate temporary bracing for all loads to which the masonry work may be subjected. Until such time as the permanent supports are in place and the masonry work can safely support the design loads.

APR 25/84 AS BUILT.

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michael torsney architects
suite 202 131 john street s. hamilton ontario
416 522-2494

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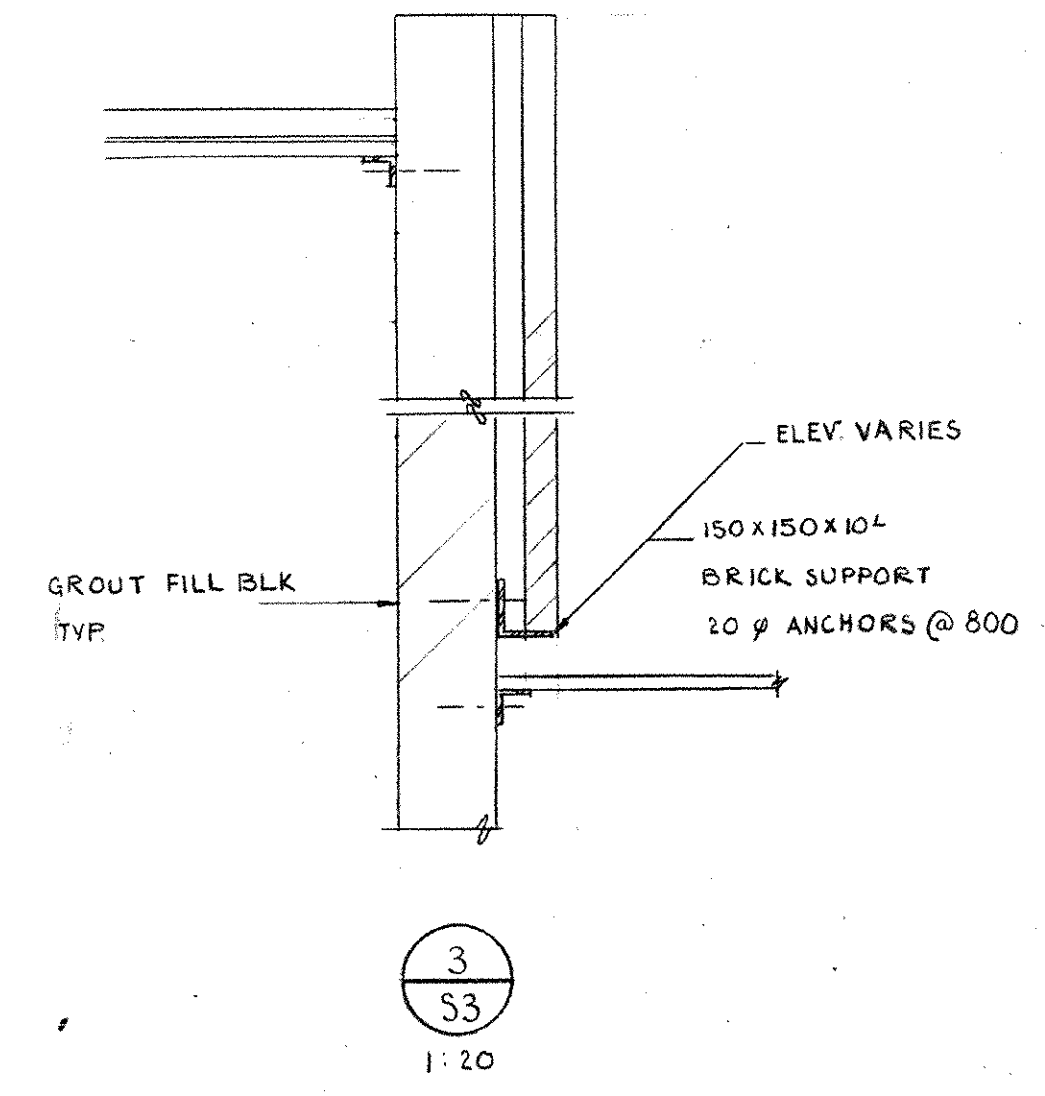
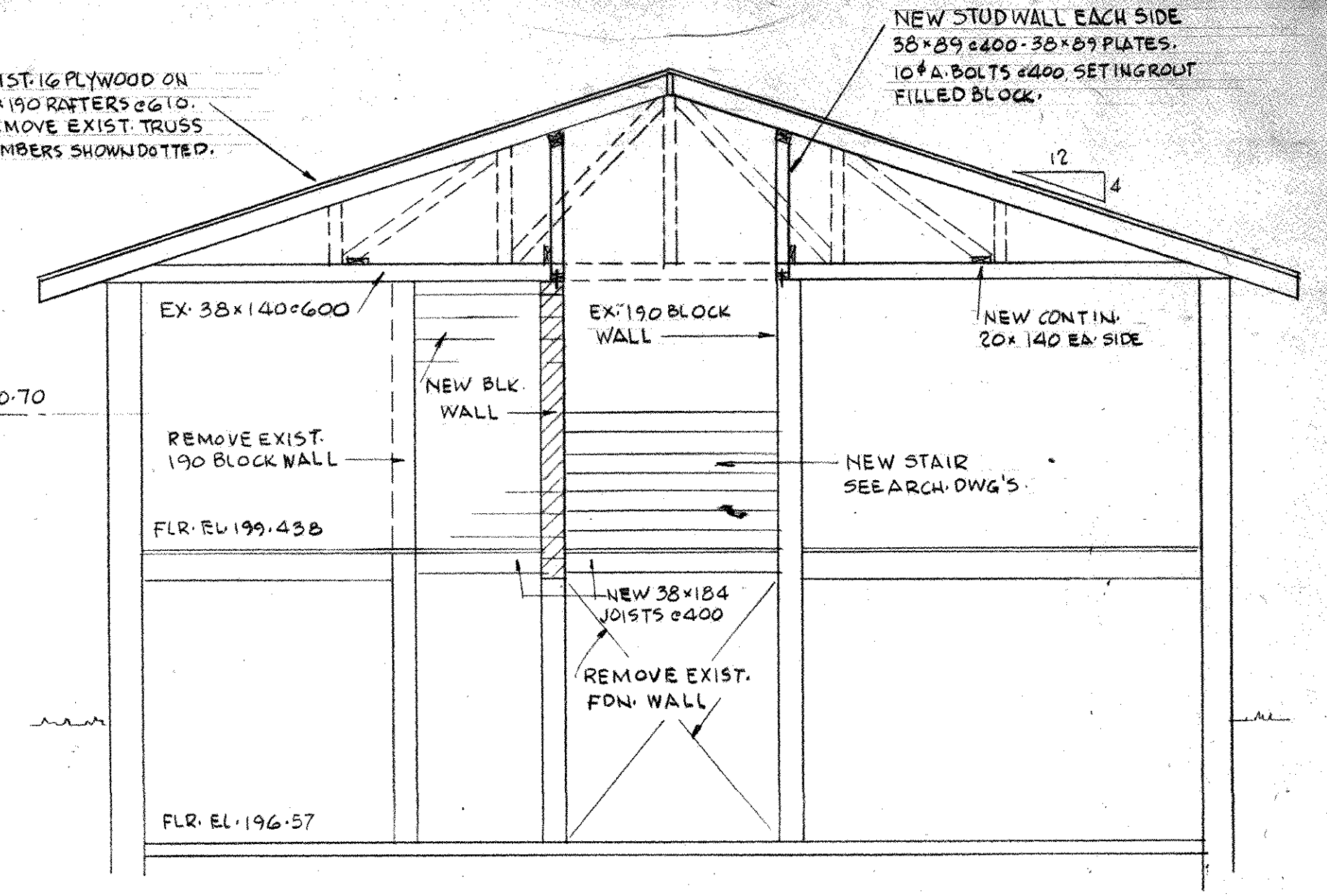
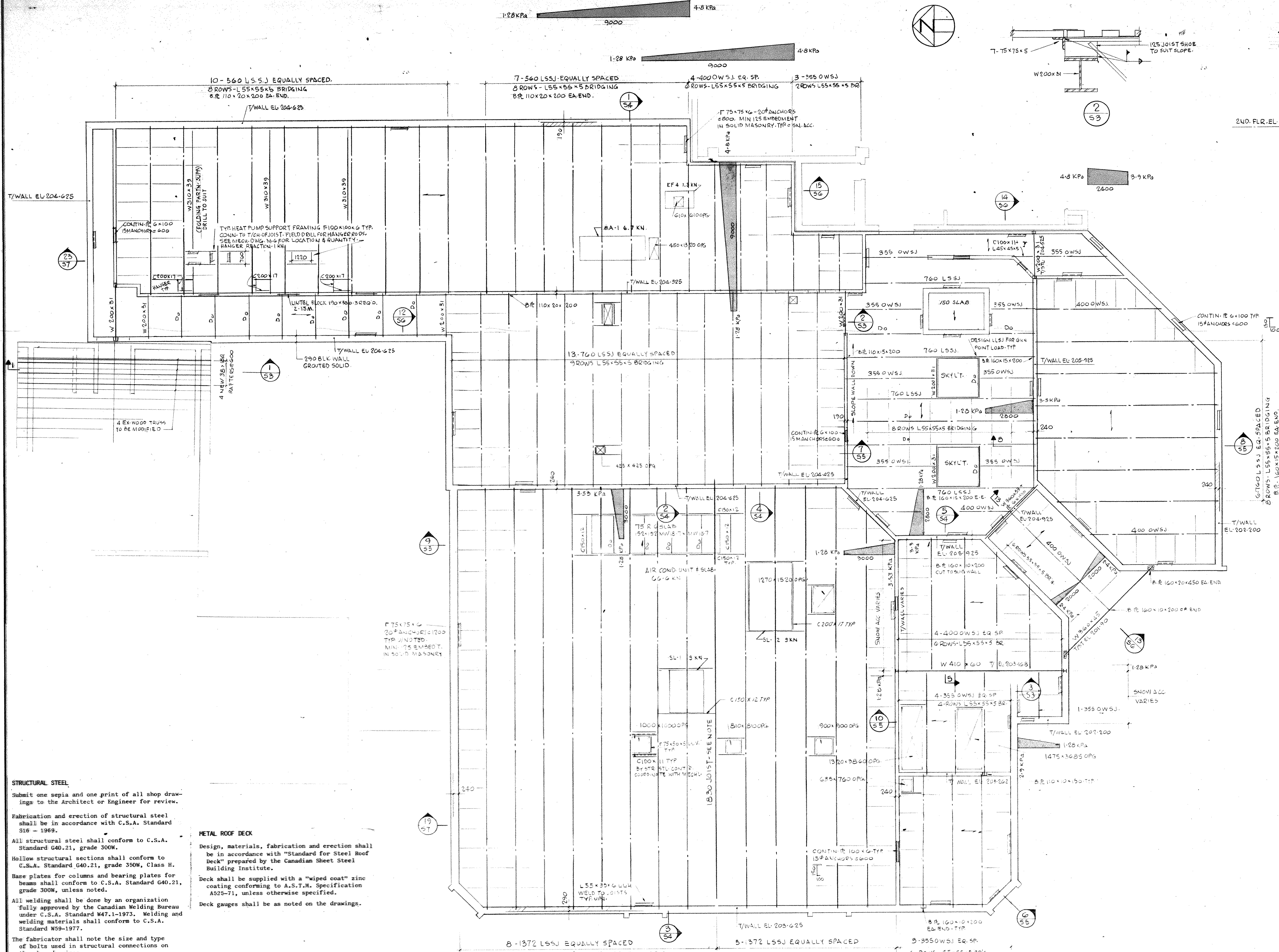
MOHAWK COLLEGE STUDENT CENTRE
HAMILTON, ONTARIO

DATE OCT. 1984
DWG. NO. S2

SECOND FLOOR FRAMING PLAN PHASE-1

PARKER CONSULTANTS
Consulting Professional Engineers
Hamilton London Ottawa
PROJECT NO 3242

MICHAEL J. TORSNEY
REGISTERED PROFESSIONAL ENGINEER
P. C. ROSCOE
MEMBER OF ONTARIO ASSOCIATION OF ARCHITECTS



STRUCTURAL STEEL
 Submit one set and one print of all shop drawings to the Architect or Engineer for review.
 Fabrication and erection of structural steel shall be in accordance with C.S.A. Standard S16 - 1989.
 All structural steel shall conform to C.S.A. Standard G40.21, grade 300W.
 Hollow structural sections shall conform to C.S.A. Standard G40.21, grade 350W, Class II.
 Base plates for columns and bearing plates for beams shall conform to C.S.A. Standard G40.21, grade 300W, unless noted.
 All welding shall be done by an organization fully approved by the Canadian Welding Bureau under C.S.A. Standard W47.1-1975. Welding and welding materials shall conform to C.S.A. Standard W59-1977.
 The fabricator shall note the size and type of bolts used in structural connections on the shop drawings.
 All structural steel shall be sufficiently straight that variations cannot be determined with the unaided eye. All structural steel shall be thoroughly cleaned of all loose mill scale, dirt, oil, or other foreign matter before shop painting. Shop paint shall conform to C.G.S.B. Specification 1 - GP - 40d - 1968.
 Structural steel to be encased in concrete or adjacent to areas to be field welded shall not be painted.
 Where it is necessary to provide holes for pipes, conduits, etc. in the webs of beams or columns in the field, the Contractor whose trade requires the openings shall be responsible for reinforcing these members to the approval of the Architect or Engineer. Flanges of steel beams or columns shall not be cut unless approved by the Architect or Engineer.
 Steel lintels shall have a minimum bearing length of 300 lintels made up of two angles 5 x 50 @ 600 weld top and bottom.
 Where the edges of suspended concrete slabs bear on steel beams, anchors shall be welded to the beams at 600 intervals and embedded in the concrete. Anchor size shall be 38 x 5 x 300.
 Where block or brick masonry passes a steel beam provide galvanized masonry anchors as detailed on the drawings.
 Where block or brick masonry abuts or passes a steel column, provide galvanized masonry anchors as detailed on the drawings.

METAL ROOF DECK
 Design, materials, fabrication and erection shall be in accordance with "Standard for Steel Roof Deck" prepared by the Canadian Sheet Steel Building Institute.
 Deck shall be supplied with a "wiped coat" zinc coating conforming to A.S.T.M. Specification A525-71, unless otherwise specified.
 Deck gauges shall be as noted on the drawings.

ROOF FRAMING PLAN
 SCALE = 1/100

NOTE: ALL STEEL ROOF DECK 0-76x43 R.B.S. NARROW RIB OR APPROVED EQUAL.
 ALL JOISTS TO HAVE BOTTOM CHORD EXTENSIONS.
 ALL ROOF CONSTRUCTION SHALL MEET ULC-R205 OR RT05 ROOF DECK SHALL BE CONNECTED WITH 20# PLUG WELDS AT 500 O.C. TO SUPPORTS.
 ALL BEARING RIS SHALL HAVE 2-20#x200L6 BOLTS WELDED TO RIB. BLOCK UNDER R SHALL BE GROUT FILLED.
 15 JOIST TO CARRY ROOF LOADS PLUS 4500 HIGH MOVERS & PARTITION AT 0.574 KPa. CO GRADUATE WITH PARTITION MANUFACTURER.
 MAX ALLOW. SNOW LOAD DEF. SECTION 15.

ROOF DESIGN LOADS		
ITEM	TYPICAL	LOUNGE
BUILT-UP ROOF	.290	.290
75 INSULATION	.210	.210
0-76 DECK	.091	.091
13 DRYWALL	.110	.110
CEILING	.120	.478
STEEL JOISTS	.140	.20
MECH'L & ELBCT'L	.239	.239
LIVE LOAD	1.28	1.28
SNOW ACC - SEE PLAN	-	-
TOTAL	2.48 KPa	2.89 KPa

michael torsney architects
 suite 202 131 john street s. hamilton, ontario L8N 2C3 416 522-2494

SCALE AS NOTED	DRN W.N.	JOB NO	8403
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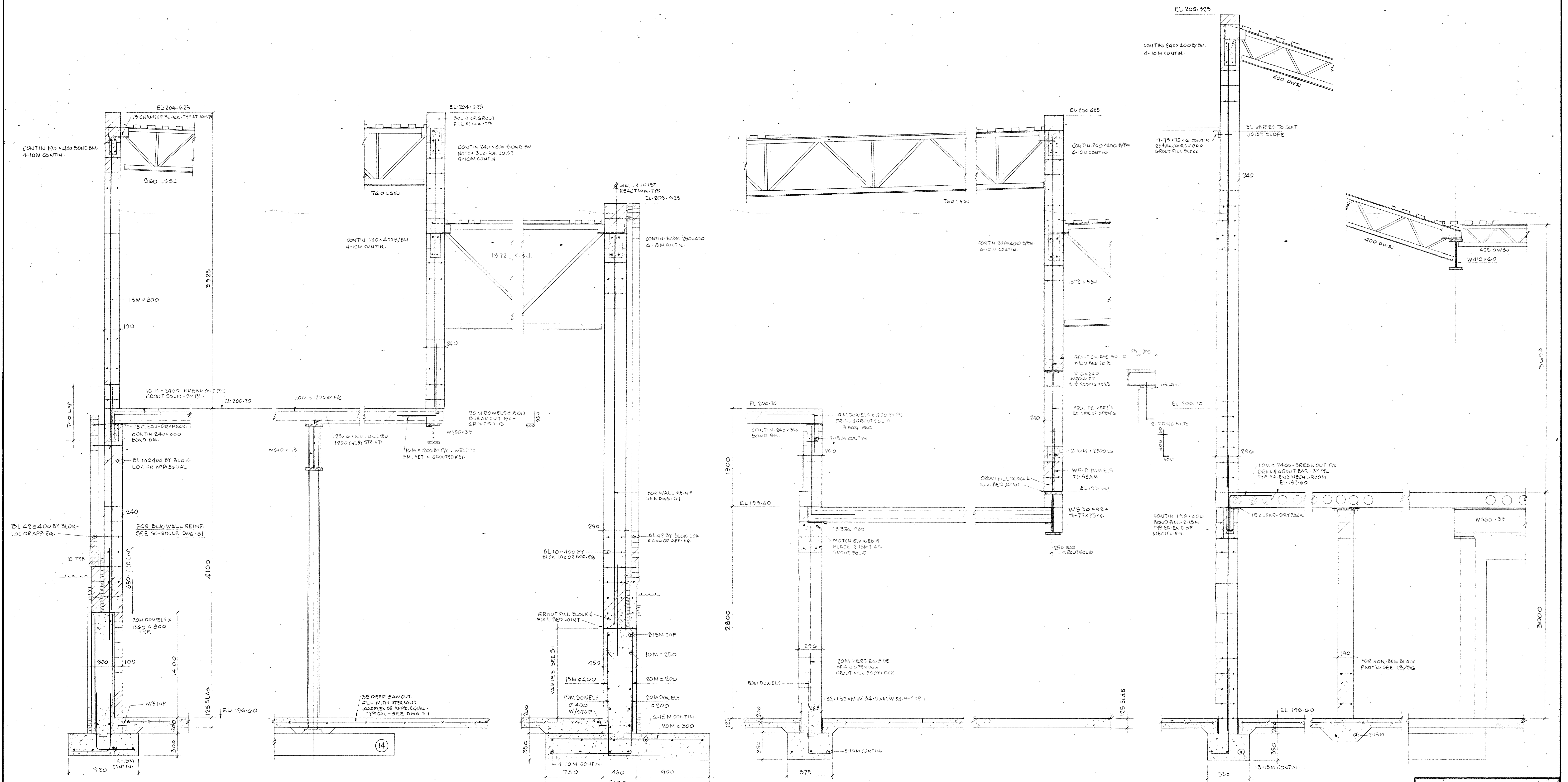
MOHAWK COLLEGE STUDENT CENTRE
 HAMILTON, ONTARIO

ROOF FRAMING PLAN PHASE-1

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 Consulting Professional Engineers
 Hamilton London Ottawa
 PROJECT NO 3242

P.C. ROSCOE
 PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO

MICHAEL J. TORSNEY
 ARCHITECT



1
S1, 2, 3

2
S1, 2, 3

3
S1, 2, 3

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S1, 2, 3

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S1, 2, 3

michael torsney architects
 suite 202 131 john street s. hamilton, ontario
 L8N 2C3 416 522-2494

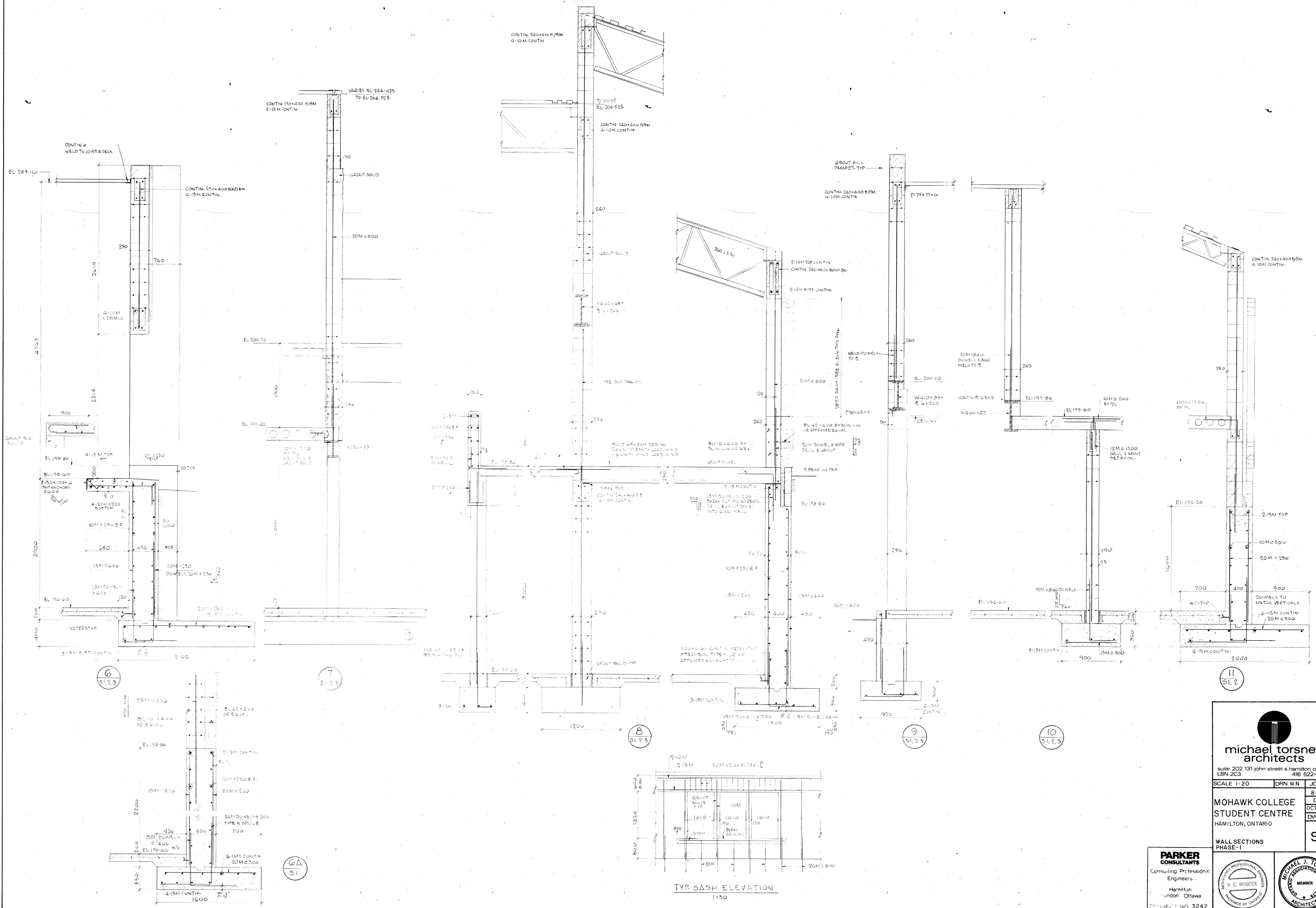
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		DATE OCT. 1984
		DWG. NO. S4

MOHAWK COLLEGE STUDENT CENTRE
 HAMILTON, ONTARIO

WALL SECTIONS PHASE-1

PARKER CONSULTANTS
 Consulting Professional Engineers
 Hamilton London Ottawa
 PROJECT NO 3242

MICHAEL J. TORSNEY
 ARCHITECT



michael torsney architects

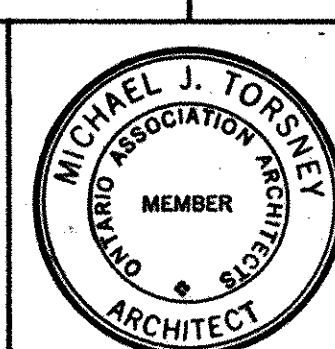
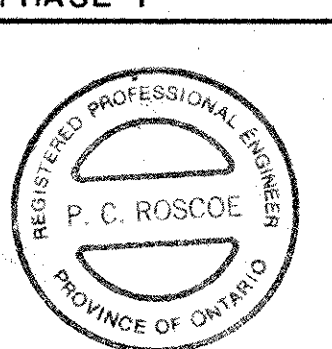
suite 202 131 john street s. hamilton ontario
L8N 2C3 416 522-2494

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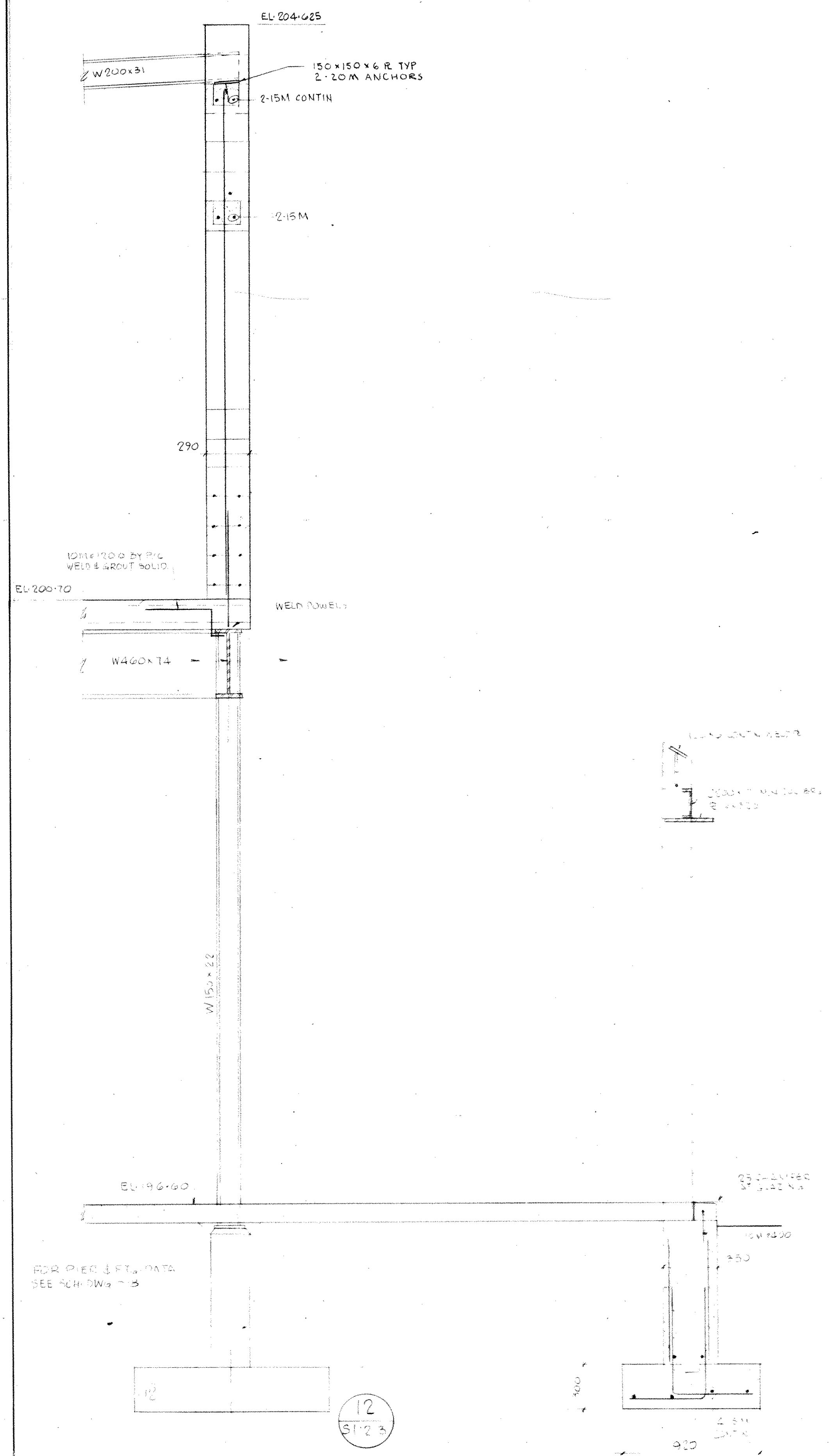
DATE OCT. 1984
DWG. NO. S5

WALL SECTIONS
PHASE-I

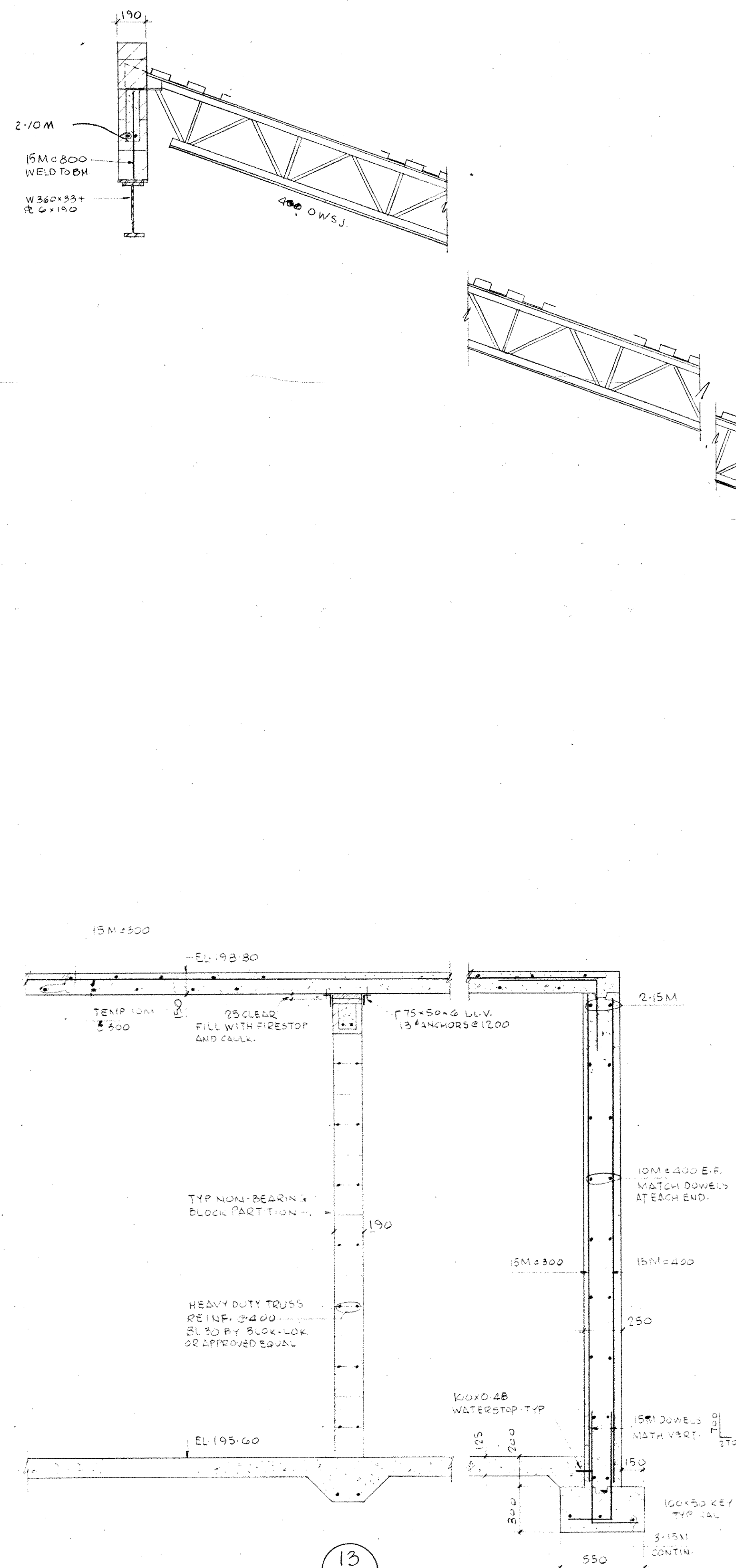
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Consulting Professional Engineers
Hamilton London Ottawa
PROJECT NO. 3242



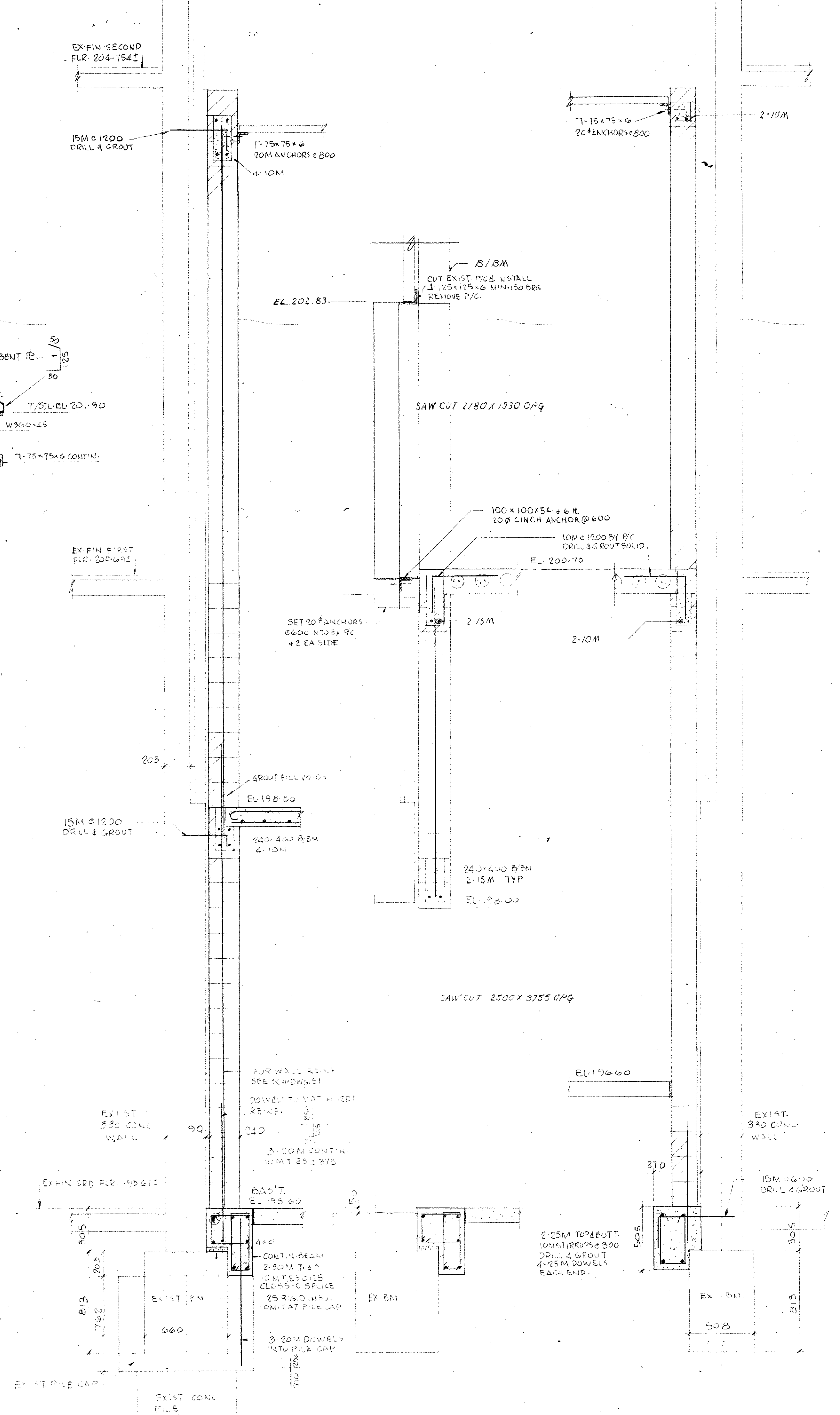
TYP. SASH ELEVATION
1150



12
SI, 2, 3



13
SI, 2, 3



14A
SI, 2

15
SI, 2, 3

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SI, 2, 3

michael torsney architects
 suite 202 131 john street s hamilton ontario
 L8N 2C3 416 522-2494

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MOHAWK COLLEGE STUDENT CENTRE		DATE OCT. 1984
HAMILTON, ONTARIO		DWG. NO. S6

WALL SECTIONS PHASE-1

PARKER CONSULTANTS
 Consulting Professional Engineer
 Hamilton, London, Ottawa
 PROJECT NO 3242

P. C. ROSCOE
 MEMBER
 ASSOCIATION OF ARCHITECTS
 PROVINCE OF ONTARIO

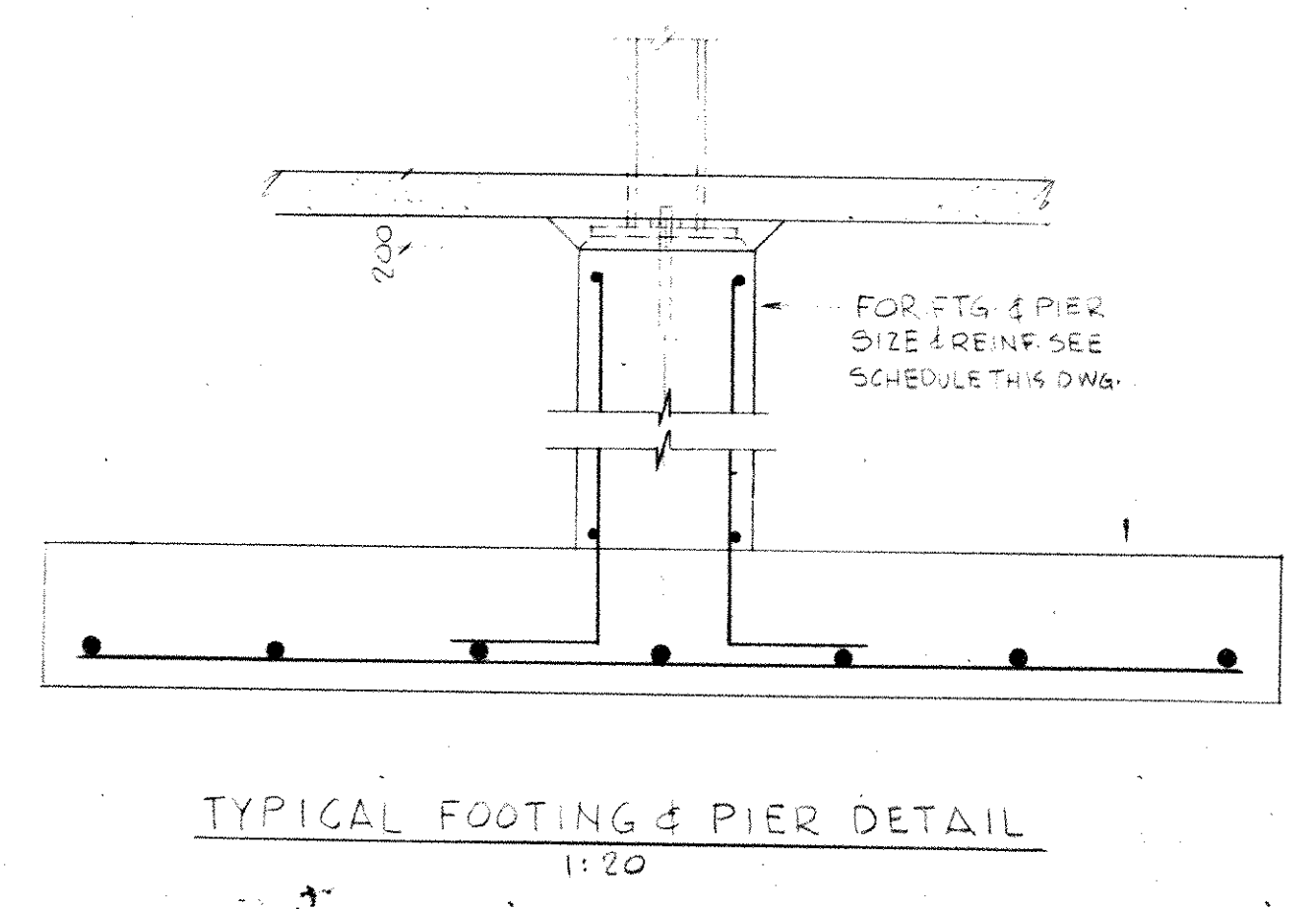
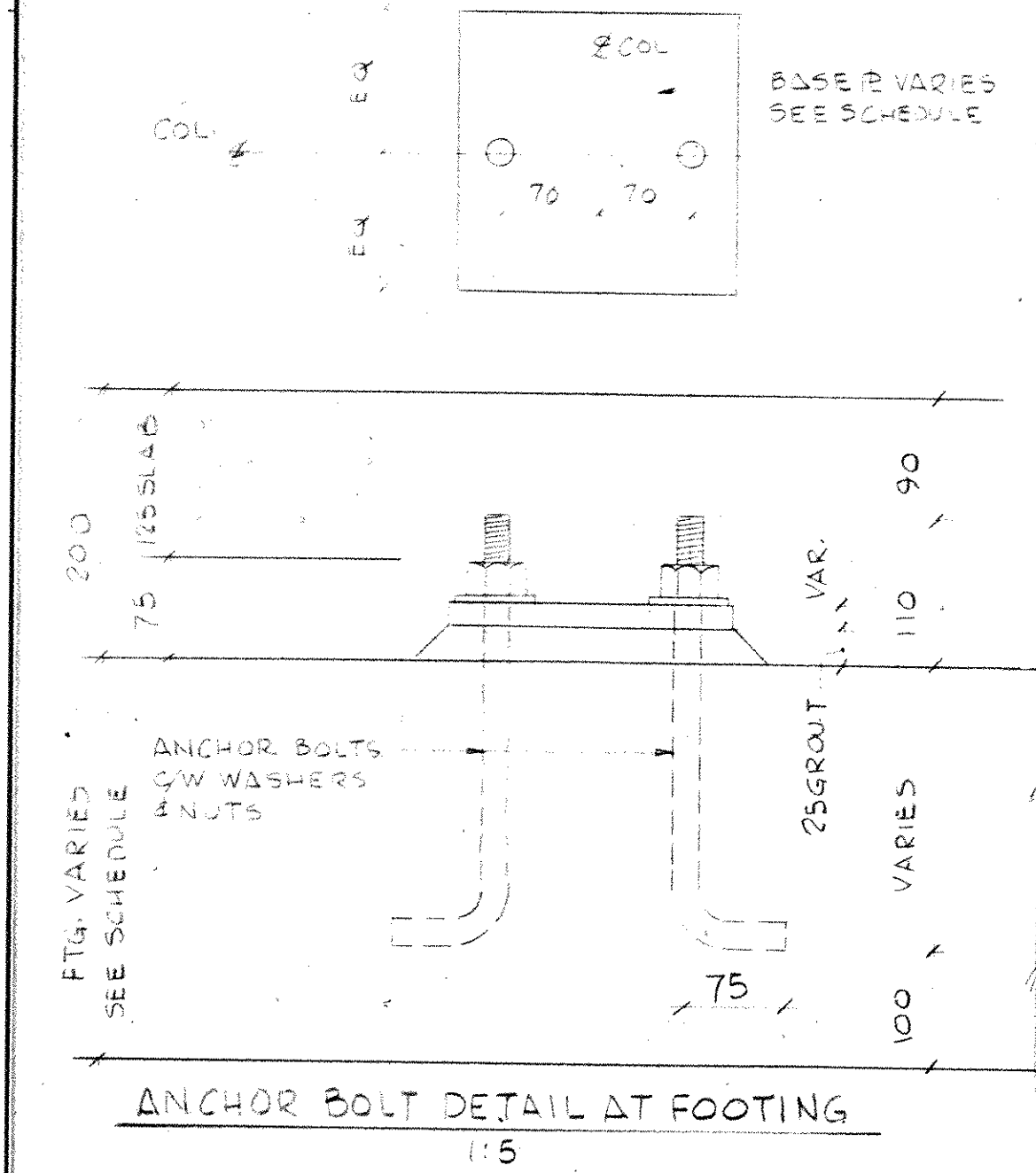
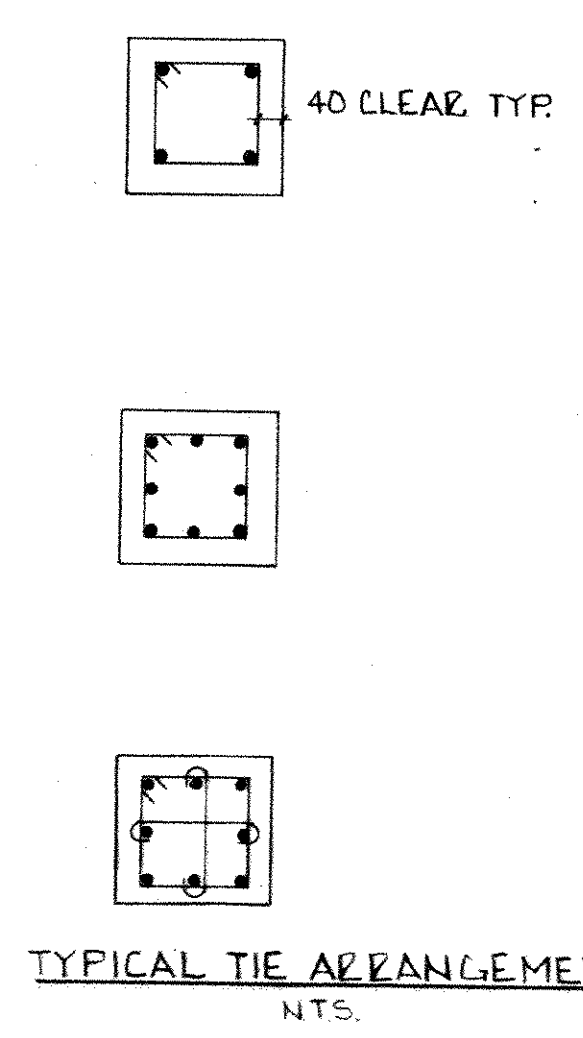
MICHAEL J. TORSNEY
 MEMBER
 ASSOCIATION OF ARCHITECTS
 ARCHITECT

COLUMN AND FOOTING SCHEDULE

COLUMN DATA	1.	2.	3, 6.	4, 5.	7.	8.	9.	10.	11.	12.	13, 14.	15.	16.	17.	18.	19.	20.	21.	22.	23.			
2ND FLR. EL. 200.70												203.164						203.168				2ND FLR. EL. 200.70	
EL. 199.80																							
EL. 199.60																							
EL. 199.40																							
1ST FLR. EL. 196.60																						1ST FLR. EL. 196.60	
BASE PLATES	255x20x255	385x30x385	255x20x255	335x25x335	365x30x365	385x30x385	410x35x410	280x16x280	385x30x385	210x13x210	205x16x205	275x16x275	230x13x230	255x16x255	205x19x205	305x25x305	280x16x280	250x20x250				BASE PLATES	
ANCHOR BOLTS	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M	2-20M				ANCHOR BOLTS
GROUT	25	25	25	25	25	2-20M	2-20M	25	25	25	25	25	25	25	25	25	25	25	25				GROUT
EL. TOP OF PIER	196.4	196.4	196.4	196.40	196.40	196.40			196.40	196.4		196.4											EL. TOP OF PIER
PIER SIZE	305x305	435x435	305x305	385x385						260x260		325x325											PIER SIZE
VERTICALS	4-20M	8-20M	4-20M	8-15M																			VERTICALS
TIES	10M @ 300	3-10M	10M @ 300	10M @ 300	3-10M					10M @ 250													TIES
EL. TOP OF FOOTING	194.80	196.40	2-195.6	4-195.6 5-196.4	3300x3300x385	2400x4000x460	3500x3500x485	2750x2750x385	2400x3500x460	1375x1375x300	2150x2150x300	1300x1300x350	1620x1620x300	2590x2590x335	2100x2100x300	3050x3050x410	2750x2750x380	2000x2000x350					EL. TOP OF FTG.
PIER SIZE	2600x2600x555	2600x2600x355	2600x2600x355	2500x3000x510	3300x3300x385	2400x4000x460	3500x3500x485	2750x2750x385	2400x3500x460	1375x1375x300	2150x2150x300	1300x1300x350	1620x1620x300	2590x2590x335	2100x2100x300	3050x3050x410	2750x2750x380	2000x2000x350					EL. TOP OF FTG.
REINFORCING	5-30M EA WAY	5-30M E-W	5-30M E-W	4-30M LONG WAY 5-30M SHORT WAY	7-30M E-W	6-35M LONG WAY 8-35M SHORT WAY	8-35M E-W	5-35M E-W	7-35M LONG WAY 8-35M SHORT WAY	3-15M E-W	6-25M E-W	6-15M E-W	4-25M E-W	5-30M E-W	5-25M E-W	7-30M E-W	5-35M E-W	10-15M E-W					REINFORCING
LOAD ON FOOTING	270	602	270	560	602	680	725	365	130	60	200	145 KN.	130 KN.	288	240	460	343	310 KN.					LOAD ON FTG.

COLUMN AND FOOTING SCHEDULE CONT'D

COLUMN DATA	
2ND FLR. EL. 200.70	
EL. 199.80	
EL. 199.60	
EL. 199.40	
1ST FLR. EL. 196.60	
BASE PLATES	
ANCHOR BOLTS	
GROUT	
EL. TOP OF PIER	
PIER SIZE	
VERTICALS	
TIES	
EL. TOP OF FOOTING	
PIER SIZE	
REINFORCING	
LOAD ON FOOTING	



APR 25 1984	AS BUILT (col's 1,3,4,6)
NO. DATE	REVISION

michael torsney architects
 suite 202 131 john street s. hamilton ontario
 L8N 2C3 416 522-2494

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MOHAWK COLLEGE
STUDENT CENTRE
 HAMILTON, ONTARIO
 COLUMN & FOOTING SCHEDULE
 PHASE - I

PARKER CONSULTANTS Consulting Professional Engineers P. C. ROSCOE Hamilton London - Ottawa PROJECT NO 3242	 MICHAEL J. TORSNEY ARCHITECT
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