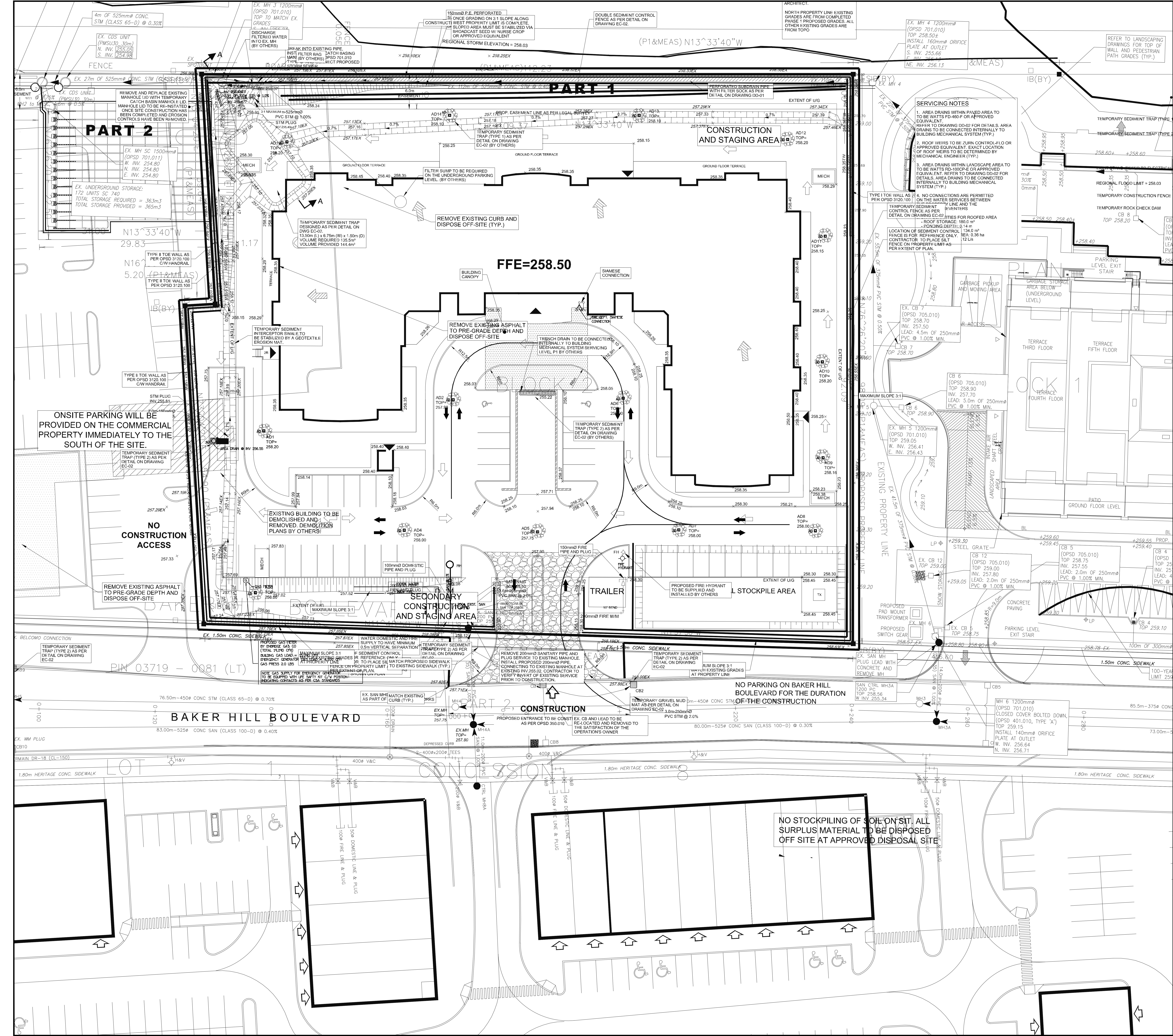




LEGEND		
---	NEW SANITARY DRAIN BURIED	
---	EXISTING SANITARY DRAIN BURIED	
---	SANITARY DRAIN ABOVE GROUND	
---	NEW STORY DRAIN BURIED	
---	EXISTING STORY DRAIN BURIED	
---	STORY DRAIN ABOVE GROUND	
---	EXISTING CLEAN OUTS	
---	NEW DOMESTIC COLD WATER	
---	EXISTING DOMESTIC COLD WATER TO BE REMOVED	
---	DOMESTIC HOT WATER	
---	COLD HOT WATER REGIONAL LINE	
---	GAS LINE	
---	FIRE LINE	
---	EXISTING FIRE LINE TO BE REMOVED	
---	NEW SPRINKLER LINE	
---	FIRE HOSE CARNET	
---	FIRE DPT. SERVICE CONNECTION	
---	FIRE CONDUIT	
---	FIRE HYDRANT AND VALVE	
---	SPRINKLER FLOW ALARM SWITCH	
---	DRY SPRINKLER VALVE C/V ALARM	
---	HOSE REEL C/V BACKFLOW PREVENTER	
---	ROOF DRAIN	
---	RAINWATER LAZAR	
---	FLOOR DRAIN	
---	HUB DRAIN	
---	AREA DRAIN	
---	SOILED AREA DRAIN	
---	CATCH BASIN	
---	MANHOLE	
---	ANCHOR	
---	UNION	
---	STRAINER	
---	GATE VALVE	
---	GLOBE VALVE	
---	CHECK VALVE	
---	PRESSURE REDUCING VALVE	
---	LOCKED VALVE	
---	BALANCING VALVE	
---	PRESSURE RELIEF VALVE	
---	TEMP. AND PRESSURE RELIEF VALVE	
---	TERMOSTAT	
---	PRESSURE GAUGE	
---	PUMP-SEE SCHEDULE H-18	
---	DETAIL MFR DRAWING NO.	
---	E/A/D	ELEC. UNDERGROUND HEATER
---	E/H/D	ELEC. UNIT HEATER
---	E/H/F	ELEC. FORCE FLOW HEATER
---	---	EXISTING GRADES
---	---	FINAL GRADES

NOTE: DETAIL MFR DRAWING A GRADING REFER TO DRAWINGS PREPARED BY M. BURKE & ASSOC. LTD.

NOTE: DETAIL MFR DRAWING A GRADING REFER TO DRAWINGS PREPARED BY M. BURKE & ASSOC. LTD.

NOTE: CONTRACTOR IS TO CHECK AND VERIFY EXACT LOCATION, SIZES AND QUANTITIES OF ALL EXISTING SERVICES AFFECTING THE EXTENT OF THIS CONTRACT PRIOR TO PROCEEDING WITH CONSTRUCTION.

NOTE: CONTRACTOR SHALL BE IN ACCORDANCE WITH LOCAL, PROVINCIAL, FEDERAL AND NATIONAL STANDARDS.

NOTE: GAS SERVICE UP TO AND INCLUDING FIFTH FLOOR SHALL BE BY GAS UTILITY COMPANY.

NOTE: INTERIOR EXISTING WATER PRESSURE 30 PSI

NOTE: CONTRACTOR IS TO CHECK AND VERIFY EXACT LOCATION, SIZES AND QUANTITIES OF ALL EXISTING SERVICES AFFECTING THE EXTENT OF THIS CONTRACT PRIOR TO PROCEEDING WITH CONSTRUCTION.

NOTE: CONTRACTOR SHALL BE IN ACCORDANCE WITH LOCAL, PROVINCIAL, FEDERAL AND NATIONAL STANDARDS.

NOTE: GAS SERVICE UP TO AND INCLUDING FIFTH FLOOR SHALL BE BY GAS UTILITY COMPANY.

NOTE: INTERIOR EXISTING WATER PRESSURE 30 PSI

FIRE MEASURES	
FULLY SPRINKLER BUILDING	Y

GAS LOAD SCHEDULE			
DESCRIPTION	QUANTITY	ON EACH	LOCATION
D-1 FRI. REFRIG.	4	3005	PERIFLOUSE
D-2 REFR. H.V. BOILERS	2	3005	PERIFLOUSE
HEA UNITS	1	2000	ROOF
GAS STOVE	---	---	---
FIRE PLACES	---	---	---
BAR-B-QUE	21	1800	6TH AND 7TH FLS
BUILDING GENERATOR	1	4000	ROOF
TOTAL	31,940		

NOTE: CONTRACTOR IS TO CHECK AND VERIFY EXACT LOCATION, SIZES AND QUANTITIES OF ALL EXISTING SERVICES AFFECTING THE EXTENT OF THIS CONTRACT PRIOR TO PROCEEDING WITH CONSTRUCTION.

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NOTE: GAS SERVICE UP TO AND INCLUDING FIFTH FLOOR SHALL BE BY GAS UTILITY COMPANY.

NOTE: INTERIOR EXISTING WATER PRESSURE 30 PSI

DRAWING SCHEDULE		
DWG. NO.	DESCRIPTION	SCALE
H-1	SITE PLAN	1:200
H-2	FLOOR PLAN	1:200
H-3	PARKING LEVEL PLAN	1:200
H-4	PARKING LEVEL PLAN	1:200
H-5	PARKING LEVEL PLAN	1:200
H-6	PART 1ST FLOOR PLAN	1:500
H-7	PART 1ST FLOOR PLAN	1:500
H-8	PART 1ST FLOOR PLAN	1:500
H-9	PART 1ST FLOOR PLAN	1:500
H-10	PART 1ST FLOOR PLAN	1:500
H-11	PART 1ST FLOOR PLAN	1:500
H-12	PART 1ST FLOOR PLAN	1:500
H-13	PART 1ST FLOOR PLAN	1:500
H-14	PART 1ST FLOOR PLAN	1:500
H-15	PART 1ST FLOOR PLAN	1:500
H-16	PART 1ST FLOOR PLAN	1:500
H-17	PART 1ST FLOOR PLAN	1:500
H-18	PART 1ST FLOOR PLAN	1:500
H-19	PART 1ST FLOOR PLAN	1:500
H-20	PART 1ST FLOOR PLAN	1:500
H-21	PART 1ST FLOOR PLAN	1:500
H-22	PART 1ST FLOOR PLAN	1:500
H-23	PART 1ST FLOOR PLAN	1:500
H-24	PART 1ST FLOOR PLAN	1:500
H-25	PART 1ST FLOOR PLAN	1:500
H-26	PART 1ST FLOOR PLAN	1:500
H-27	PART 1ST FLOOR PLAN	1:500
H-28	PART 1ST FLOOR PLAN	1:500
H-29	PART 1ST FLOOR PLAN	1:500
H-30	PART 1ST FLOOR PLAN	1:500
H-31	PART 1ST FLOOR PLAN	1:500
H-32	PART 1ST FLOOR PLAN	1:500
H-33	PART 1ST FLOOR PLAN	1:500
H-34	PART 1ST FLOOR PLAN	1:500
H-35	PART 1ST FLOOR PLAN	1:500
H-36	PART 1ST FLOOR PLAN	1:500
H-37	PART 1ST FLOOR PLAN	1:500
H-38	PART 1ST FLOOR PLAN	1:500
H-39	PART 1ST FLOOR PLAN	1:500
H-40	PART 1ST FLOOR PLAN	1:500
H-41	PART 1ST FLOOR PLAN	1:500
H-42	PART 1ST FLOOR PLAN	1:500

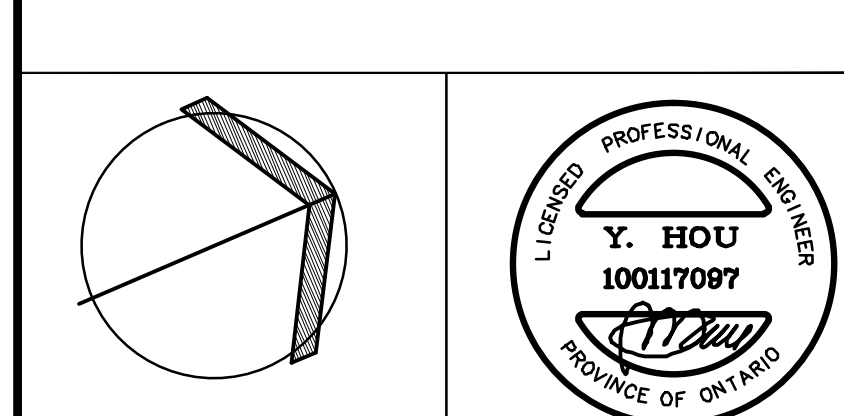
NO.	BY	DESCRIPTION	DATE
1	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/09/2017
2	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LB	ISSUED FOR PERMIT	DEC/28/2016
4	LB	REVISED AS PER SITE INSTRUCTION H-2	AUG/16/2016
5	LB	ISSUED FOR TENDER	MAY/21/2016

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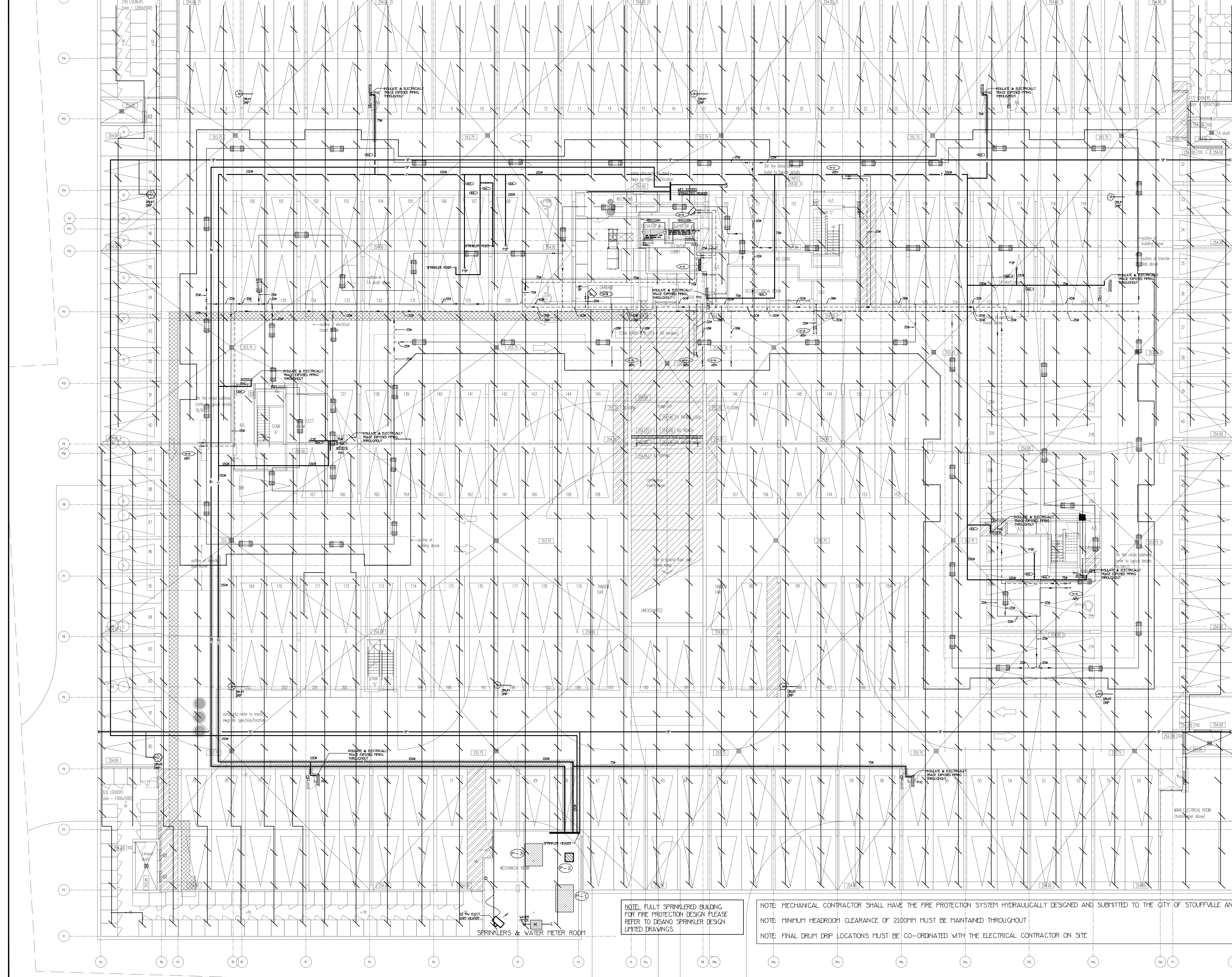
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SITE PLAN	
MECHANICAL	
PROJECT	
25 BAKER HILL BLVD.	
ROYAL PINE HOMES	
STOUFFVILLE, ONTARIO	
PROPOSED RESIDENTIAL DEVELOPMENT	
GC	BT
DATE	PROJECT
JUNE 2015	14-016
SCALE	DRAWING
1:200	M-1
	OF 42

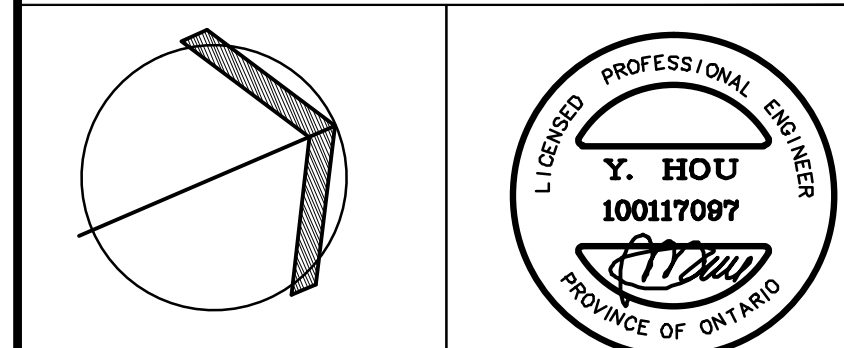


NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DISANO SPRINKLER DESIGN UNITED DRAWINGS.

NOTE: MECHANICAL CONTRACTOR SHALL HAVE THE FIRE PROTECTION SYSTEM HYDRAULICALLY DESIGNED AND SUBMITTED TO THE CITY OF STOUFFVILLE AND THE ENGINEER FOR REVIEW
NOTE: MINIMUM HEADROOM CLEARANCE OF 2100MM MUST BE MAINTAINED THROUGHOUT
NOTE: FINAL DRUM DRIP LOCATIONS MUST BE CO-ORDINATED WITH THE ELECTRICAL CONTRACTOR ON SITE

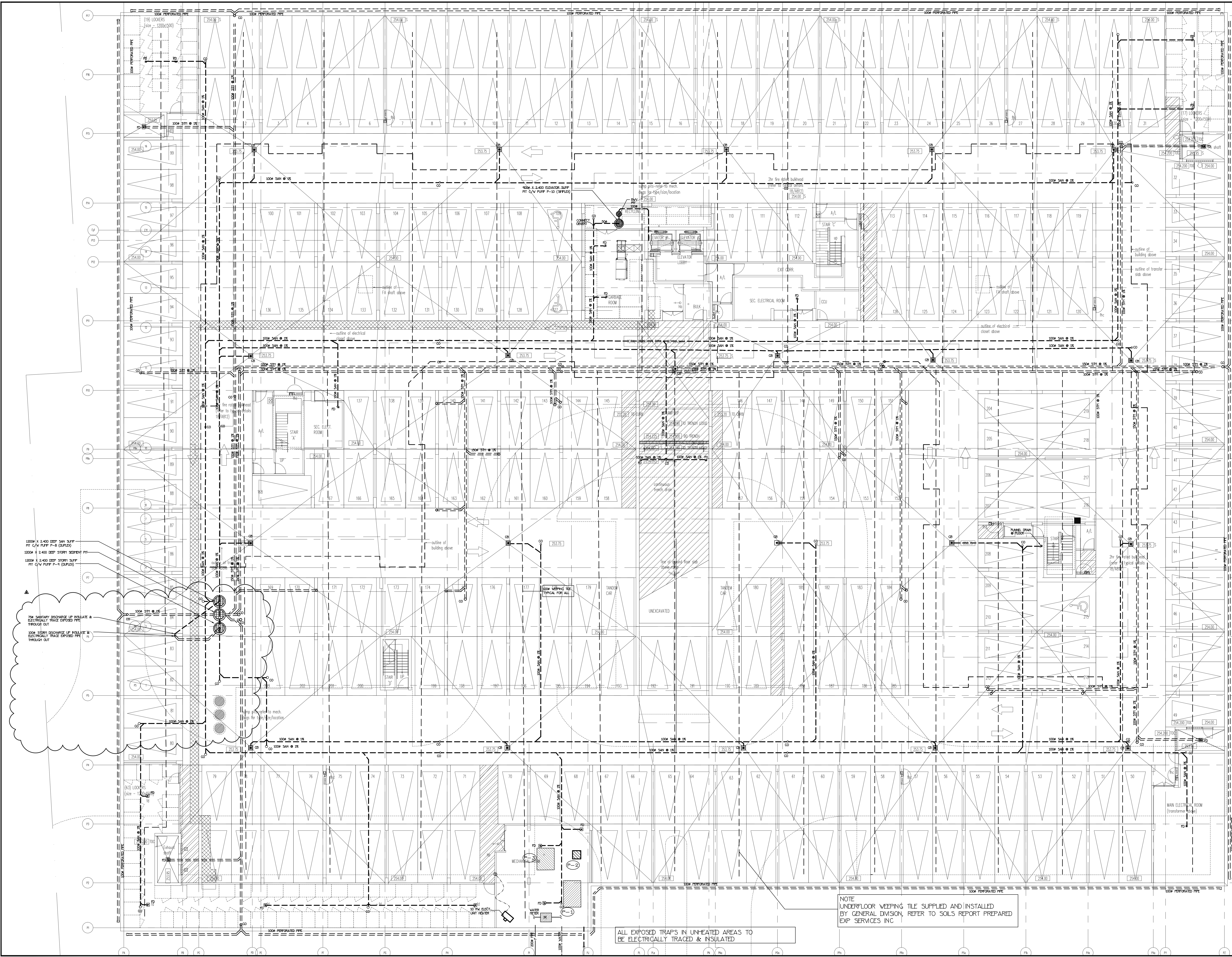
NO.	BY	DESCRIPTION	DATE
4	LD	REVISED AS PER SITE INSTRUCTION H-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
3	LD	PROGRESS FOR CONSTRUCTION	JUL/16/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

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TITLE PARKING LEVEL PLAN FIRE PROTECTION		
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE 1:100
DATE JUNE 2015	PROJECT 14-016	DRAWING M-2 OF 42



1200W X 2-400 DEEP SAN SLUFF
FT C/W PUMP P-8 (DUPLES)
1200W X 2-400 DEEP STORM SEDIMENT FT
FT C/W PUMP P-4 (DUPLES)

750 SANITARY DISCHARGE UP INSULATE &
ELECTRICALLY TRACE EXPOSED PIPE
THROUGH OUT

100W STORM DISCHARGE UP INSULATE &
ELECTRICALLY TRACE EXPOSED PIPE
THROUGH OUT

ALL EXPOSED TRAPS IN UNHEATED AREAS TO
BE ELECTRICALLY TRACED & INSULATED

NOTE
UNDERFLOOR VEEPING TILE SUPPLIED AND INSTALLED
BY GENERAL DIVISION, REFER TO SOILS REPORT PREPARED
EXP SERVICES INC

NO.	BY	DESCRIPTION	DATE
6	LD	REVISED AS PER SITE INSTRUCTION H-4	OCT/14/2017
5	LD	REVISED AS PER SITE INSTRUCTION H-5	SEP/20/2017
4	LD	REVISED AS PER SITE INSTRUCTION H-5 ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

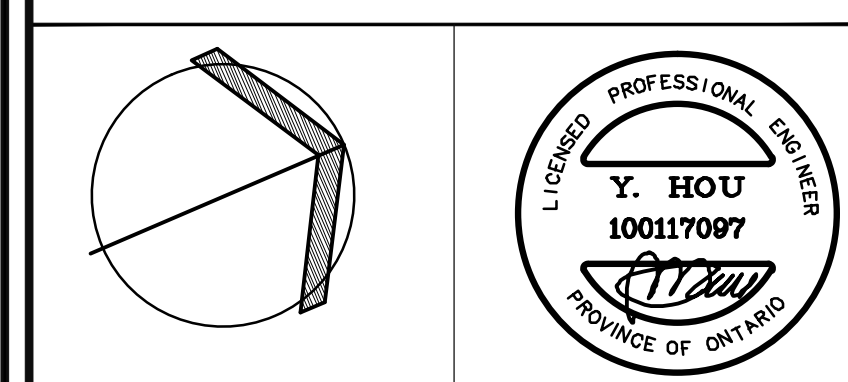
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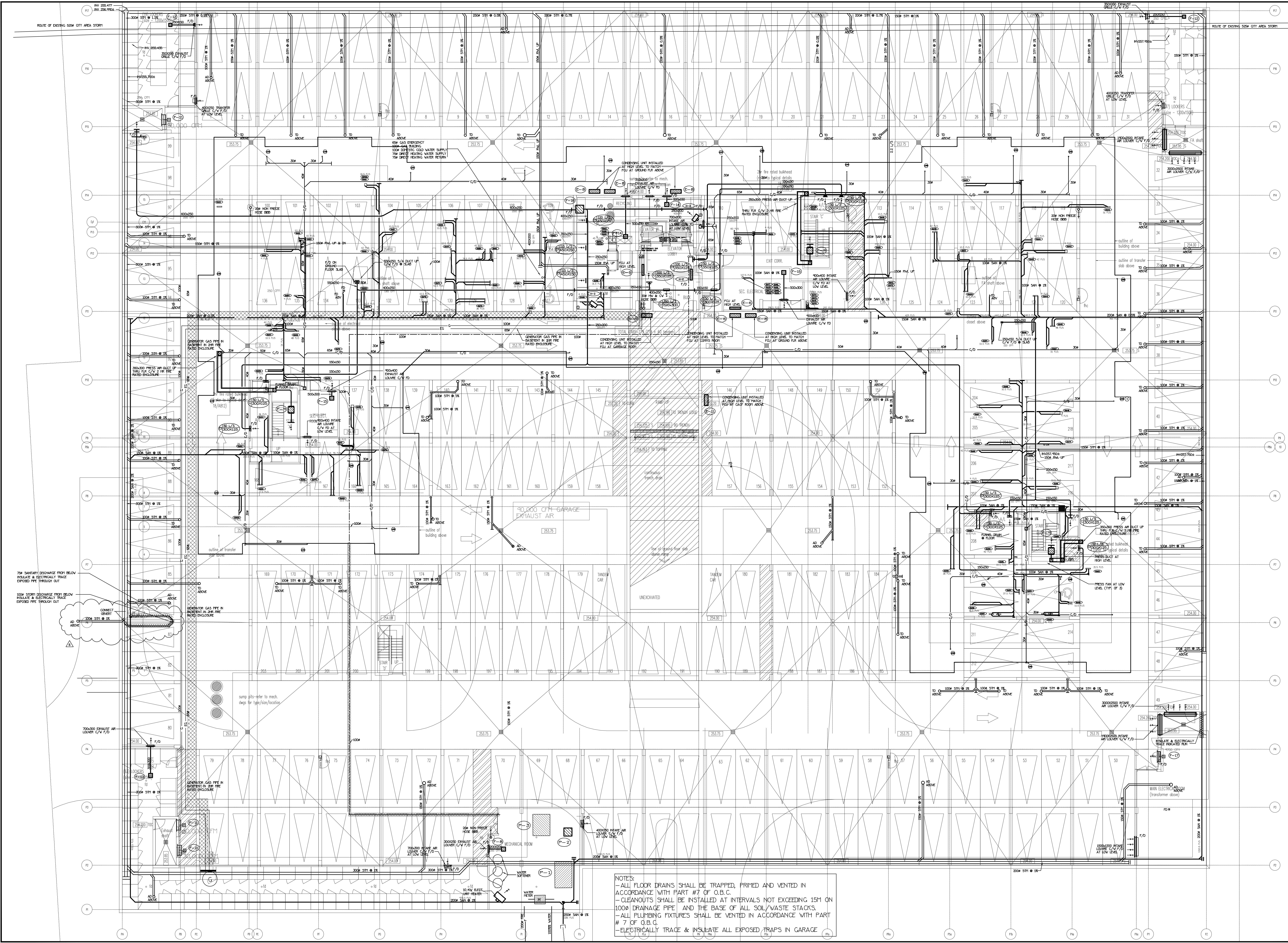
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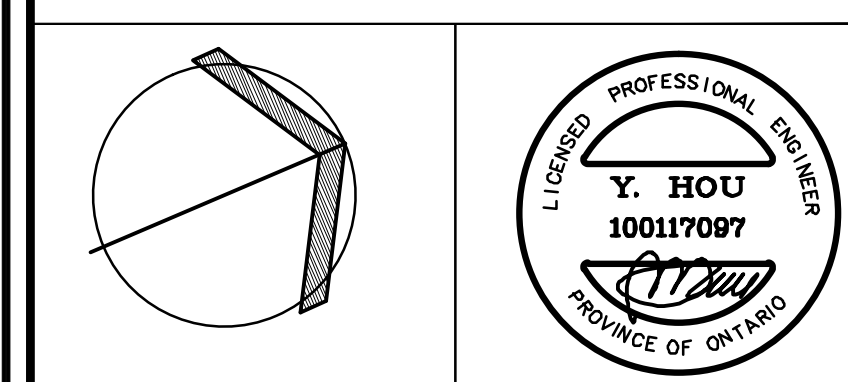
TITLE UNDERGROUND PARKING MECHANICAL	
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES	
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT
DATE JUNE 2015	PROJECT 14-016
SCALE 1:100	
DRAWING M-3	
OF 42	



NOTES:
-ALL FLOOR DRAINS SHALL BE TRAPPED, PRIMED AND VENTED IN ACCORDANCE WITH PART #7 OF O.B.C.
-CLEANOUTS SHALL BE INSTALLED AT INTERVALS NOT EXCEEDING 15M ON 100MM DRAINAGE PIPE AND THE BASE OF ALL SOIL/WASTE STACKS.
-ALL PLUMBING FIXTURES SHALL BE VENTED IN ACCORDANCE WITH PART #7 OF O.B.C.
-ELECTRICALLY TRACE & INSULATE ALL EXPOSED TRAPS IN GARAGE

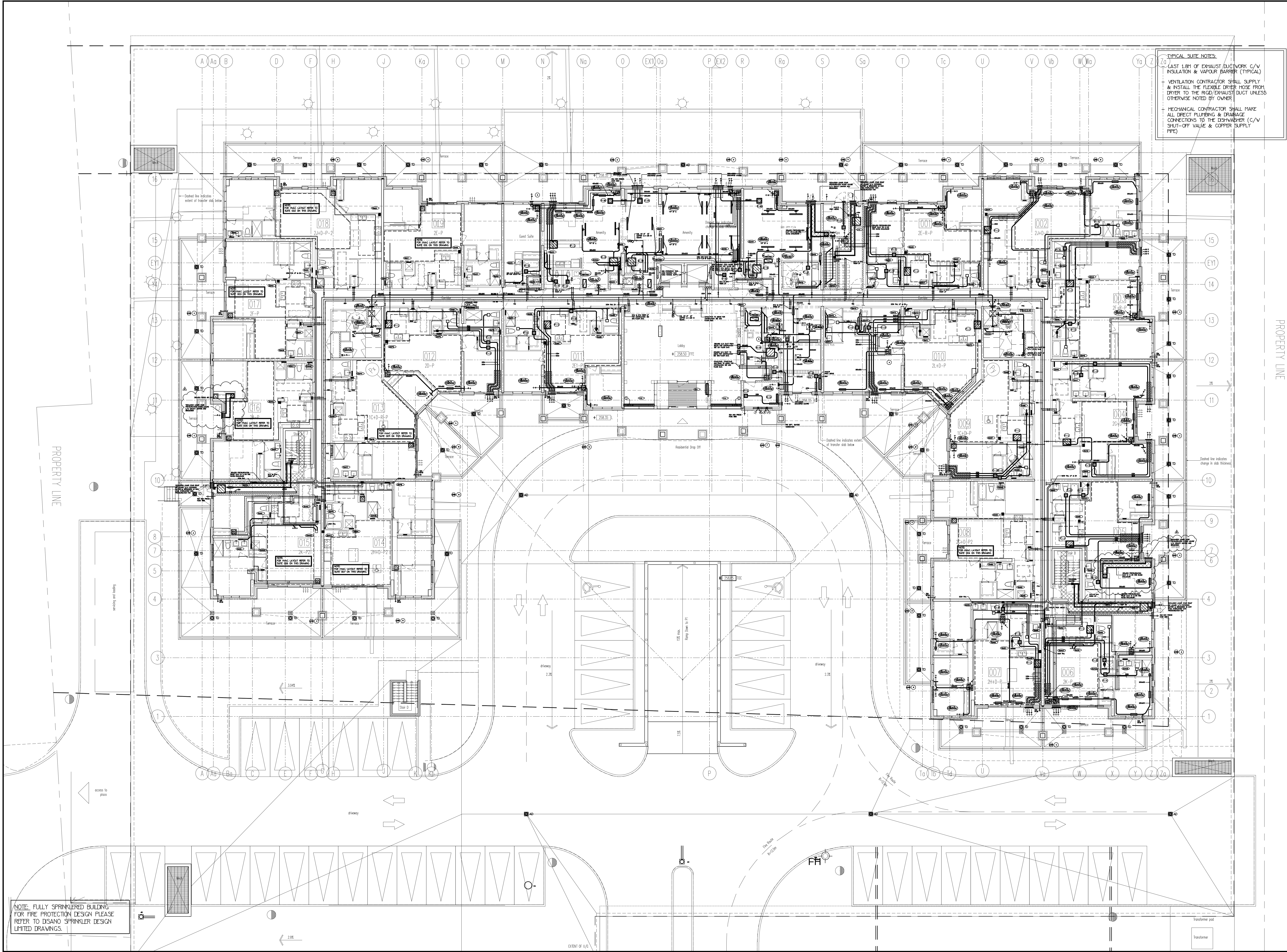
NO.	BY	DESCRIPTION	DATE
6	LB	REVISED AS PER SITE INSTRUCTION #1-9	OCT/19/2017
5	LB	REVISED AS PER SITE INSTRUCTION #1-7	SEP/11/2017
4	LB	ISSUED FOR SITE INSTRUCTION #1-5	AUG/09/2017
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

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TITLE	
PARKING LEVEL PLAN MECHANICAL	
PROJECT	
25 BAKER HILL BLVD. ROYAL PINE HOMES	
STOUFFVILLE, ONTARIO	
PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN	CHECKED
GC	BT
DATE	PROJECT
JUNE 2015	14-016
SCALE	
1:100	
DRAWING	
M-4	
OF 42	



NO.	BY	DESCRIPTION	DATE
1	U1	ISSUED FOR TENDER	MAR/21/2016
2	L1	ISSUED FOR PERMIT	DEC/28/2016
3	OF	REVISED AS PER SITE INSTRUCTION #1-3	MAR/02/2017
4	LB	PROGRESS FOR CONSTRUCTION	AAA/18/2017
5	LB	ISSUED FOR CONSTRUCTION	AUG/09/2017
6	LB	REVISED AS PER SITE INSTRUCTION #1-7	SEP/11/2017

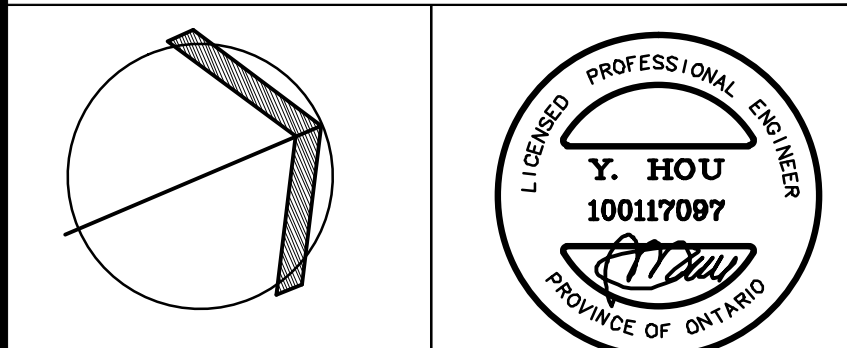
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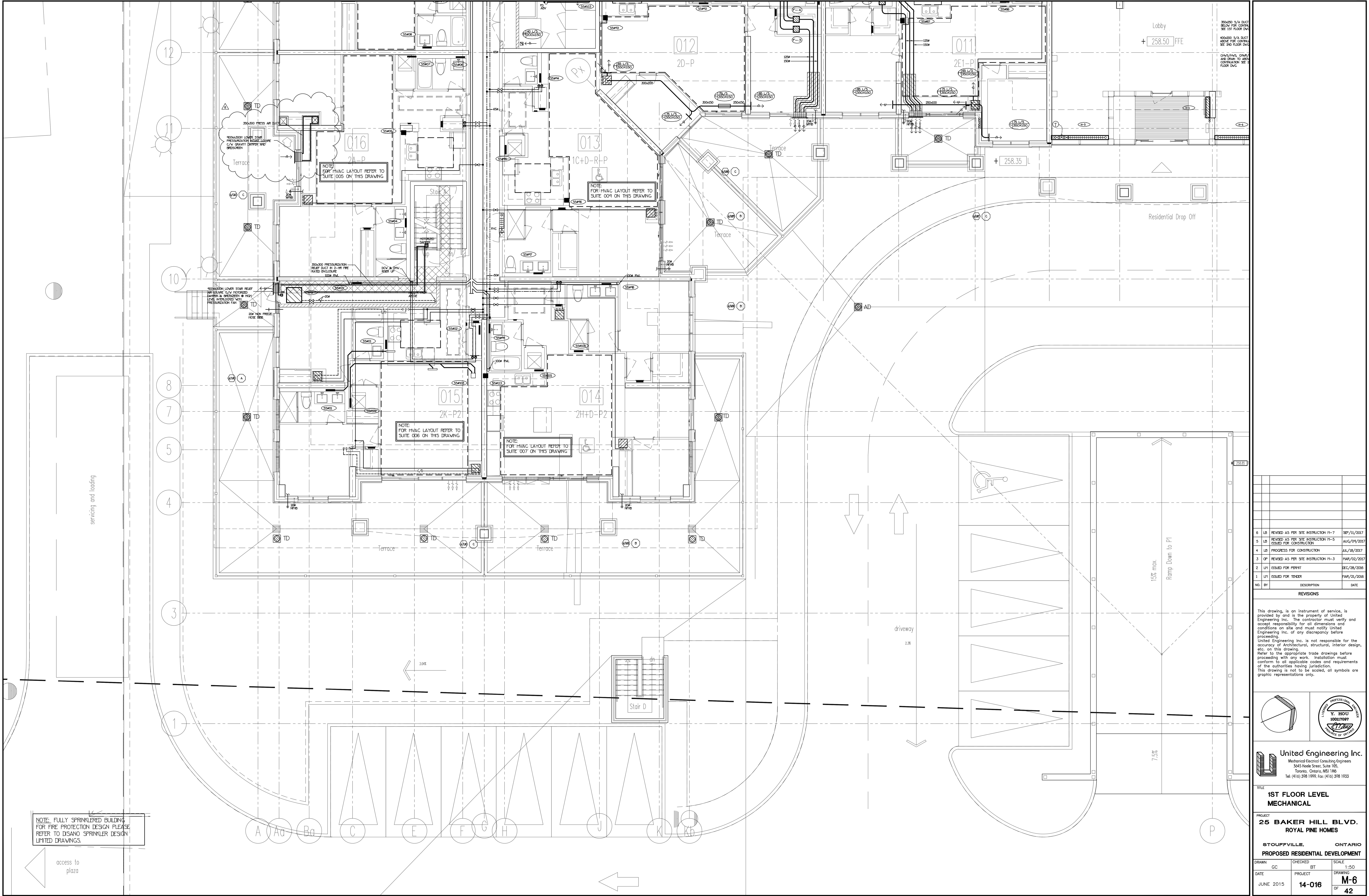
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TITLE 1ST FLOOR LEVEL MECHANICAL		
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE 1:100
DATE JUNE 2015	PROJECT 14-016	DRAWING M-5 OF 42



NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DISANO SPRINKLER DESIGN LIMITED DRAWINGS.

NO.	BY	DESCRIPTION	DATE
1	U1	ISSUED FOR TENDER	MAR/21/2016
2	L1	ISSUED FOR PERMIT	DEC/28/2016
3	OF	REVISED AS PER SITE INSTRUCTION P1-3	MAR/02/2017
4	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
5	LD	REVISED AS PER SITE INSTRUCTION P1-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
6	LD	REVISED AS PER SITE INSTRUCTION P1-7	SEP/11/2017

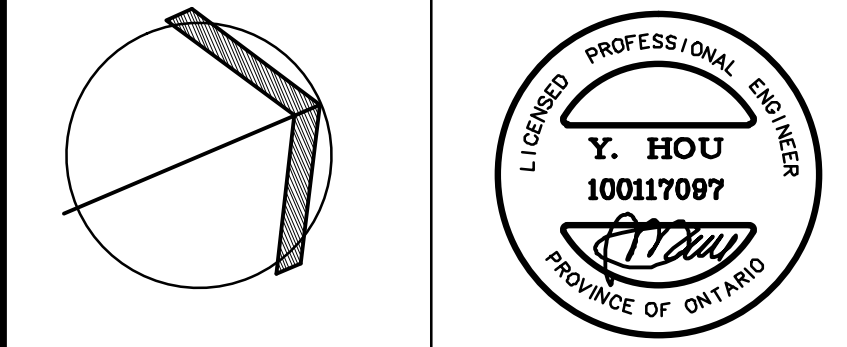
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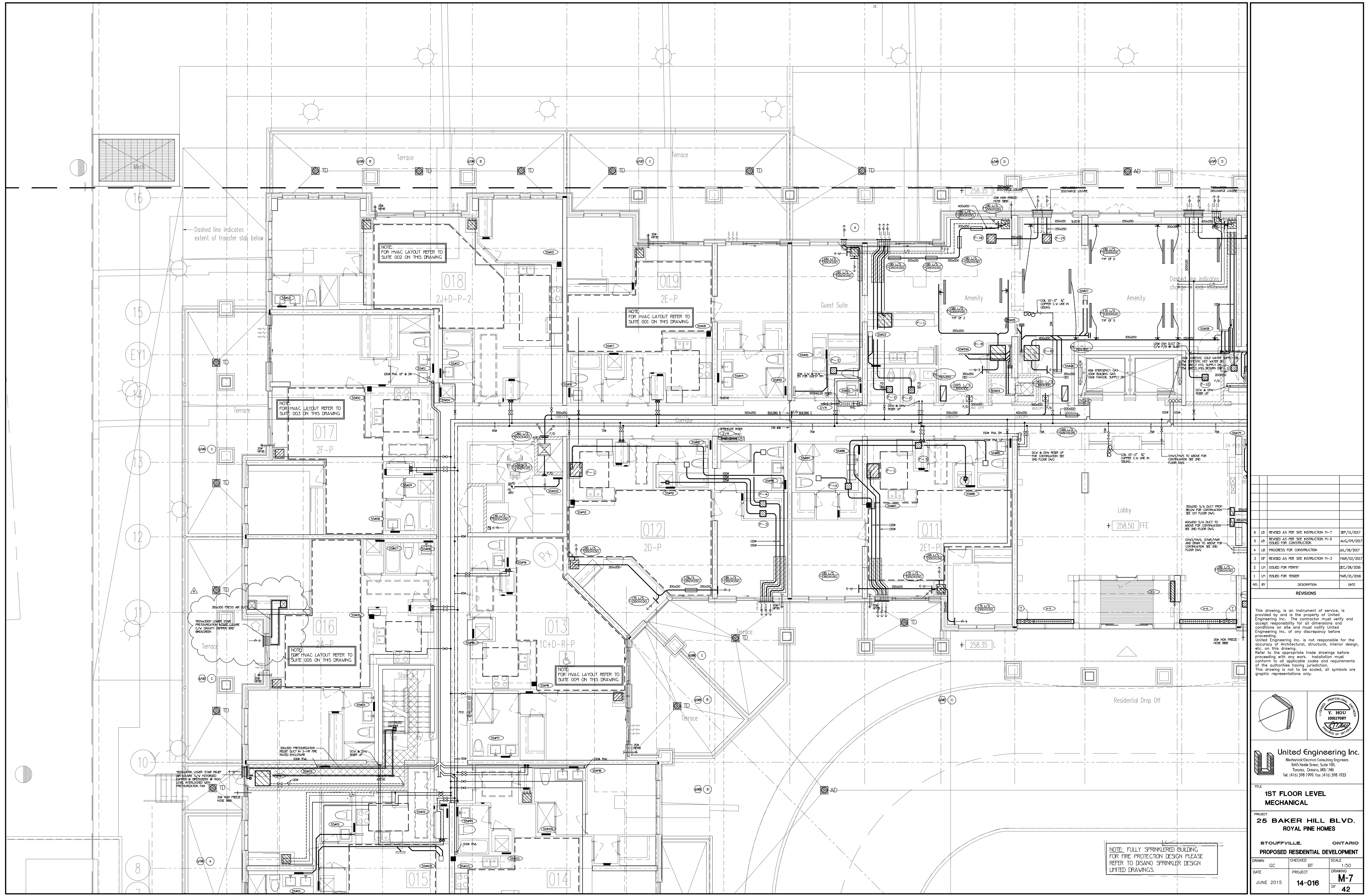
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TITLE 1ST FLOOR LEVEL MECHANICAL		
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE 1:50
DATE JUNE 2015	PROJECT 14-016	DRAWING M-6 OF 42



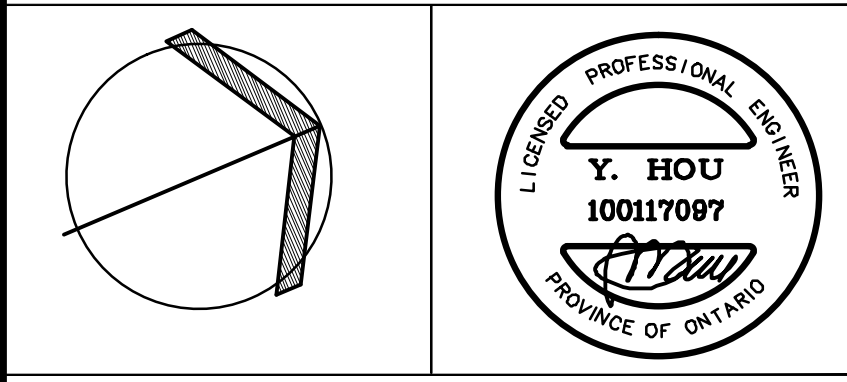
NO.	BY	DESCRIPTION	DATE
1	U1	ISSUED FOR TENDER	MAR/21/2016
2	U1	ISSUED FOR PERMIT	MAR/28/2016
3	OF	REVISED AS PER SITE INSTRUCTION P1-3	MAR/02/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
5	LB	REVISED AS PER SITE INSTRUCTION P1-5	AUG/09/2017
6	LB	REVISED AS PER SITE INSTRUCTION P1-7	SEP/11/2017

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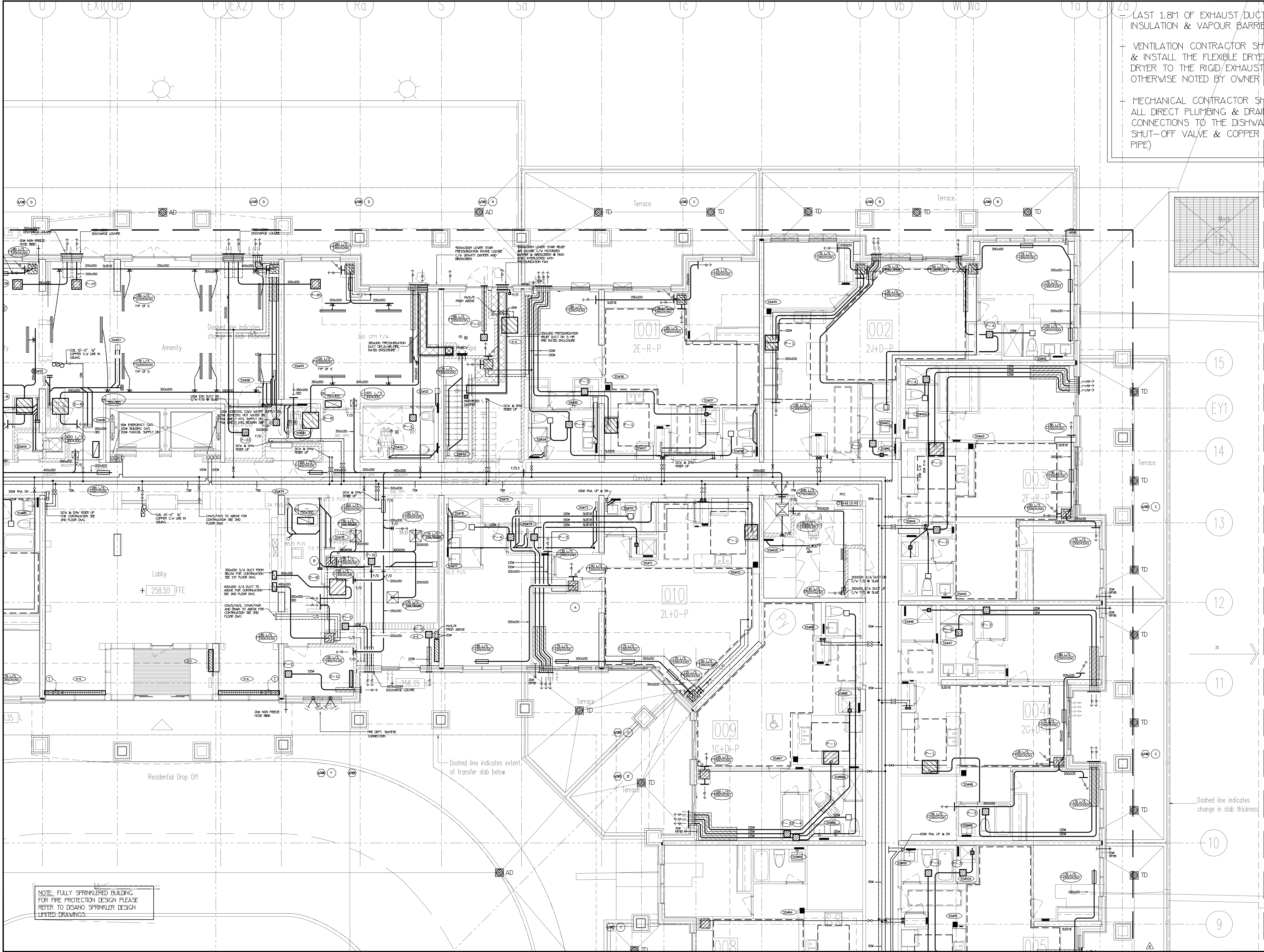
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TITLE 1ST FLOOR LEVEL MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-7
DATE JUNE 2015	PROJECT 14-016	OF 42	



LAST 1.8M OF EXHAUST DUCTWORK C/V INSULATION & VAPOUR BARRIER (TYPICAL)

VENTILATION CONTRACTOR SHALL SUPPLY & INSTALL THE FLEXIBLE DRYER HOSE FROM DRYER TO THE RIGID EXHAUST DUCT UNLESS OTHERWISE NOTED BY OWNER

MECHANICAL CONTRACTOR SHALL MAKE ALL DIRECT PLUMBING & DRAINAGE CONNECTIONS TO THE DISHWASHER (C/V SHUT-OFF VALVE & COPPER SUPPLY PIPE)

NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DISANO SPRINKLER DESIGN LIMITED DRAWINGS.

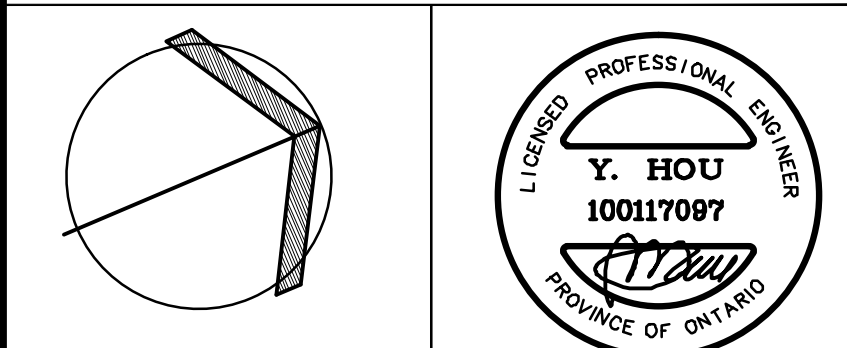
NO.	BY	DESCRIPTION	DATE
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2	L1	ISSUED FOR PERMIT	DEC/08/2016
3	OF	REVISED AS PER SITE INSTRUCTION P1-3	MAR/02/2017
4	L3	PROGRESS FOR CONSTRUCTION	JUL/18/2017
5	L3	REVISED AS PER SITE INSTRUCTION P1-5	AUG/09/2017

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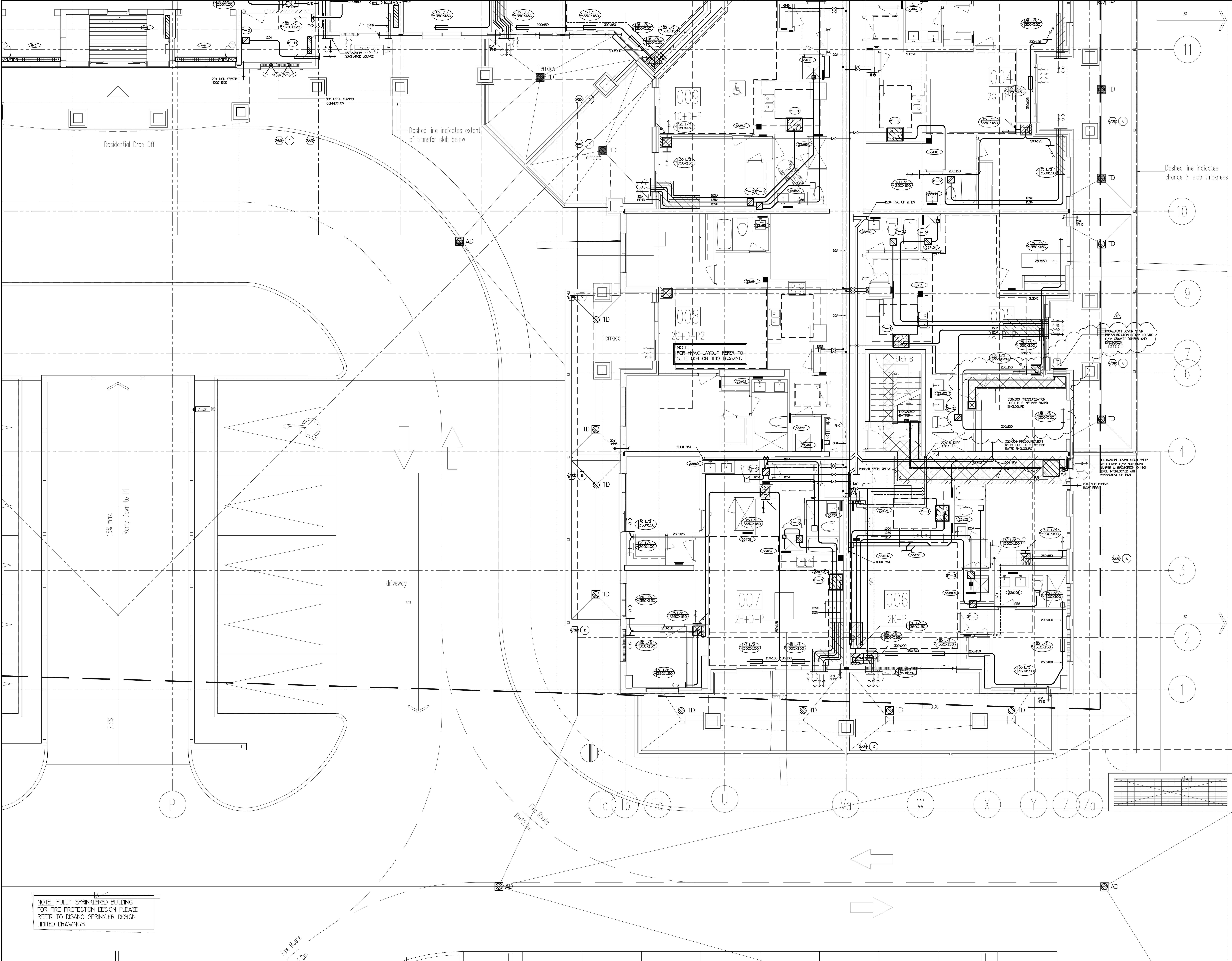
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TITLE 1ST FLOOR LEVEL MECHANICAL		
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE 1:50
DATE JUNE 2015	PROJECT 14-016	DRAWING M-8 OF 42



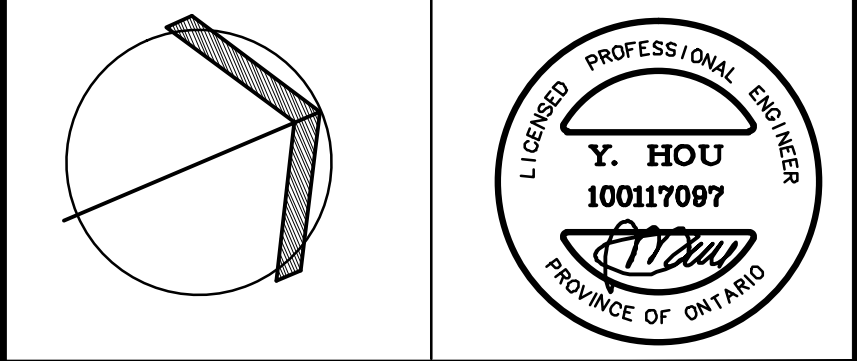
NO.	BY	DESCRIPTION	DATE
1	U1	ISSUED FOR TENDER	MAR/21/2016
2	U1	ISSUED FOR PERMIT	MAR/28/2016
3	U1	REVISED AS PER SITE INSTRUCTION P1-3	MAR/02/2017
4	U1	PROGRESS FOR CONSTRUCTION	JUL/18/2017
5	U1	REVISED AS PER SITE INSTRUCTION P1-5	AUG/09/2017
6	U1	REVISED AS PER SITE INSTRUCTION P1-7	SEP/11/2017

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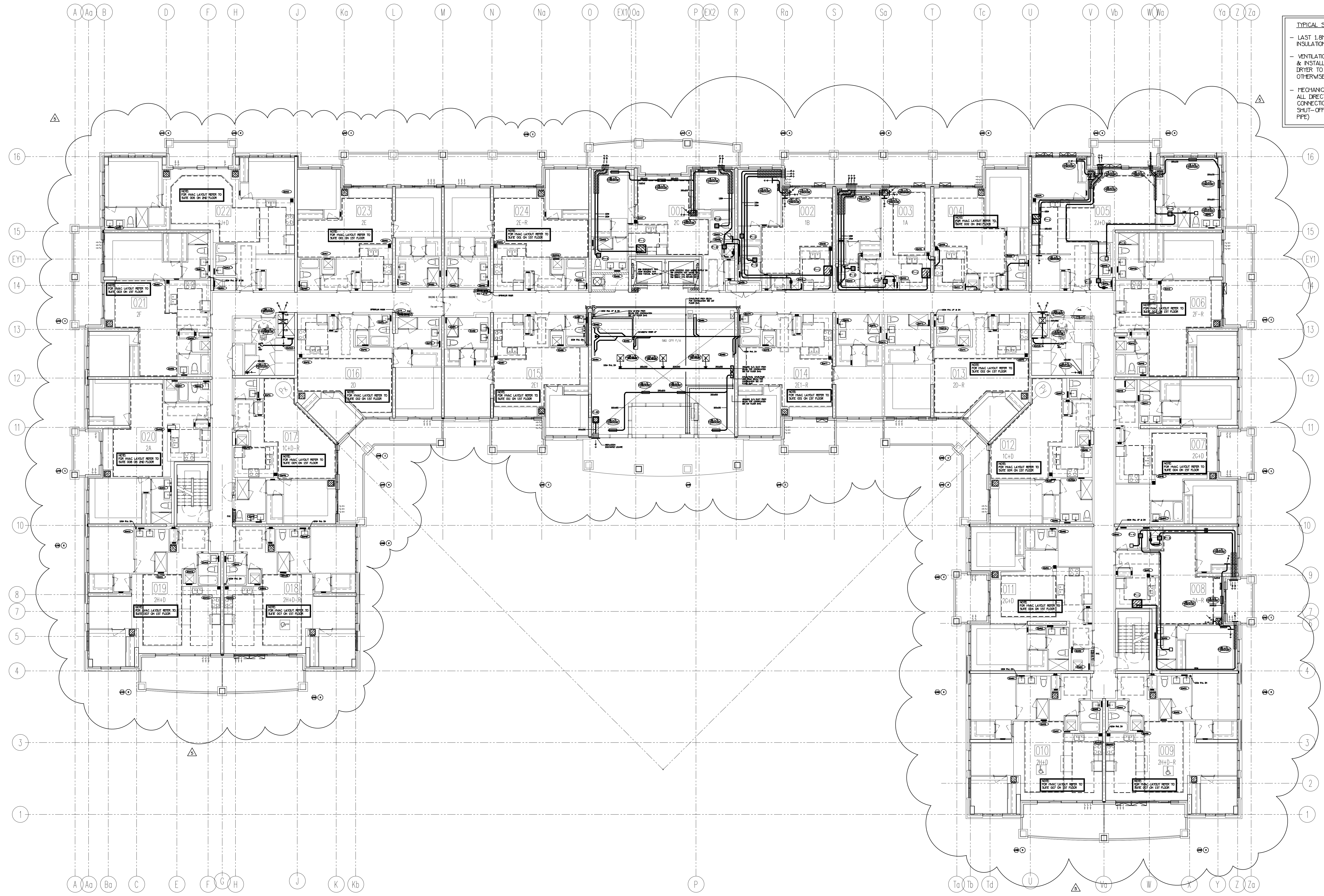
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TITLE 1ST FLOOR LEVEL MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT			
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-9
DATE JUNE 2015	PROJECT 14-016	DRAWING M-9	OF 42



TYPICAL SUITE NOTES:

- LAST 1.8M OF EXHAUST DUCTWORK C/V INSULATION & VAPOUR BARRIER (TYPICAL)
- VENTILATION CONTRACTOR SHALL SUPPLY & INSTALL THE FLEXIBLE DRYER HOSE FROM DRYER TO THE RIGID EXHAUST DUCT UNLESS OTHERWISE NOTED BY OWNER
- MECHANICAL CONTRACTOR SHALL MAKE ALL DIRECT PLUMBING & DRAINAGE CONNECTIONS TO THE DISHWASHER (C/V SHUT-OFF VALVE & COPPER SUPPLY PIPE)

NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DISANO SPRINKLER DESIGN LIMITED DRAWINGS.

NO.	BY	DESCRIPTION	DATE
5	LB	REVISED AS PER SITE INSTRUCTION P1-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LB	ISSUED AS PER SITE INSTRUCTION P1-4	MAY/26/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

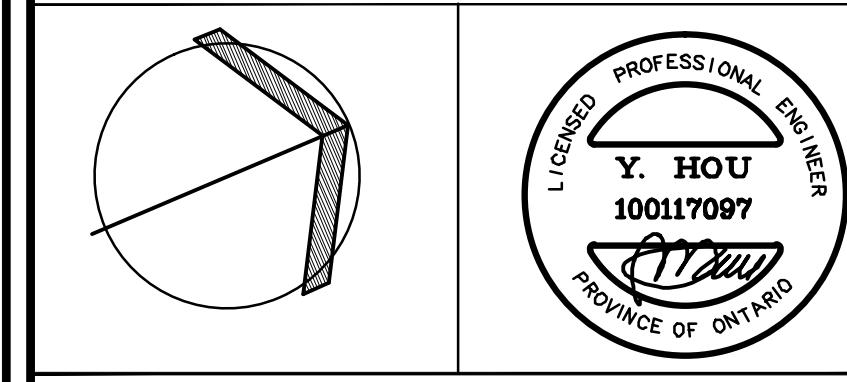
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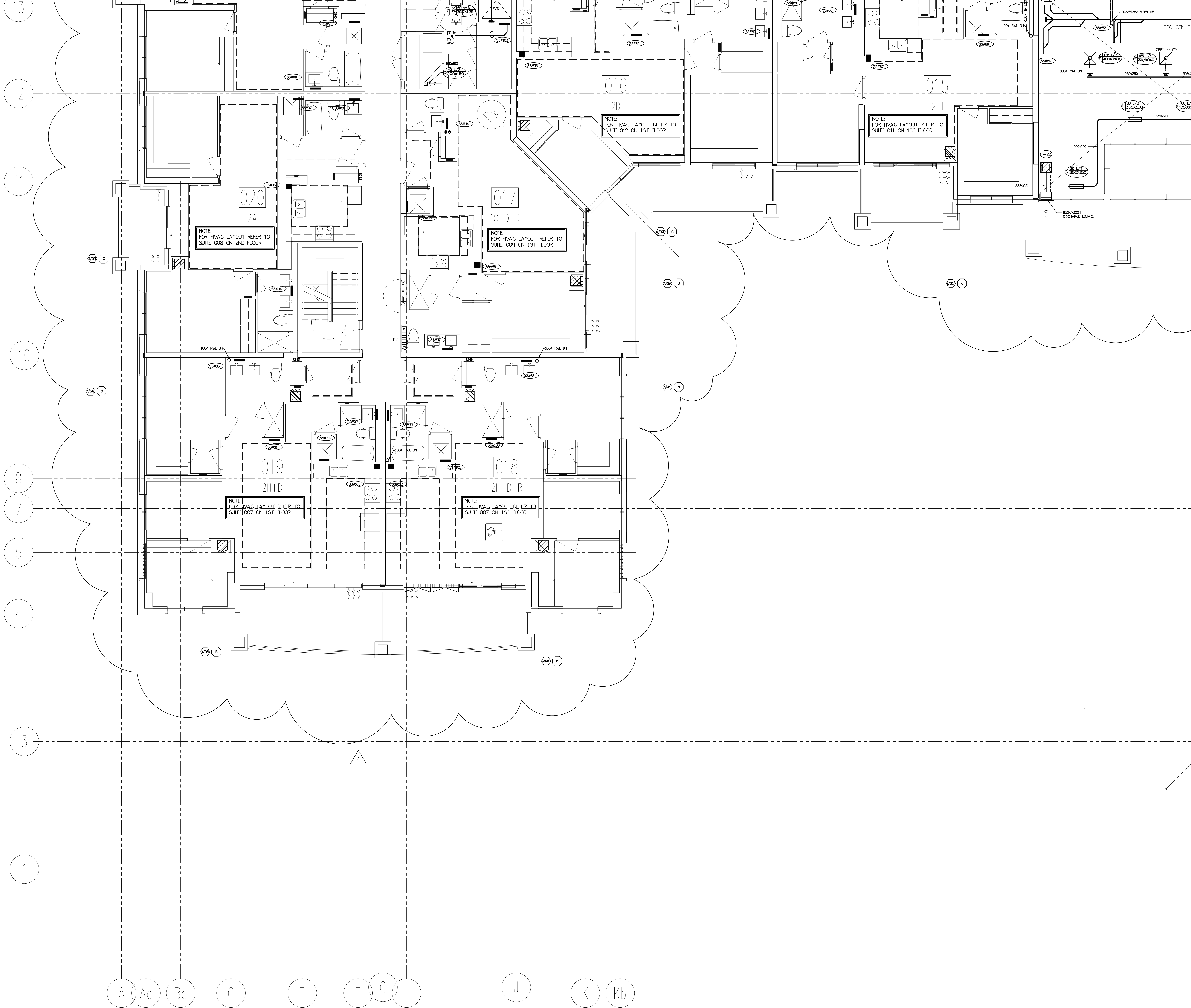
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United Engineering Inc.
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TITLE 2ND FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:100	
DATE JUNE 2015	PROJECT 14-016	DRAWING M-10	OF 42

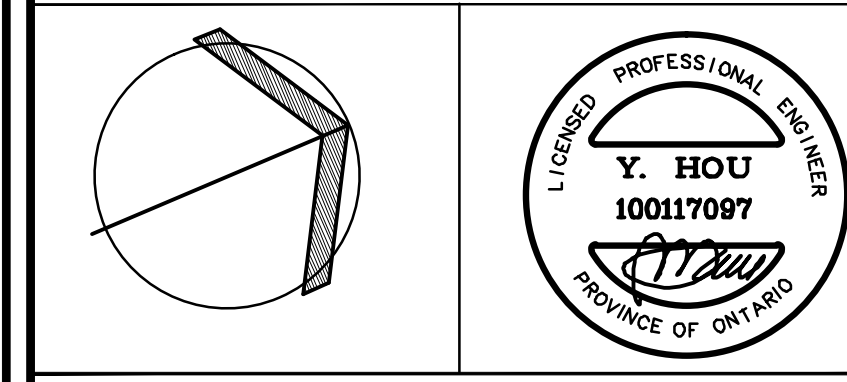
NOTE: FULLY SPRINKLERED BUILDING
FOR FIRE PROTECTION DESIGN PLEASE
REFER TO DESAND SPRINKLER DESIGN
UNITED DRAWINGS.



NO.	BY	DESCRIPTION	DATE
4	LD	REVISED AS PER SITE INSTRUCTION P1-5 ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LD	ISSUED FOR PERMIT	DEC/28/2016
1	LD	ISSUED FOR TENDER	MAR/21/2016

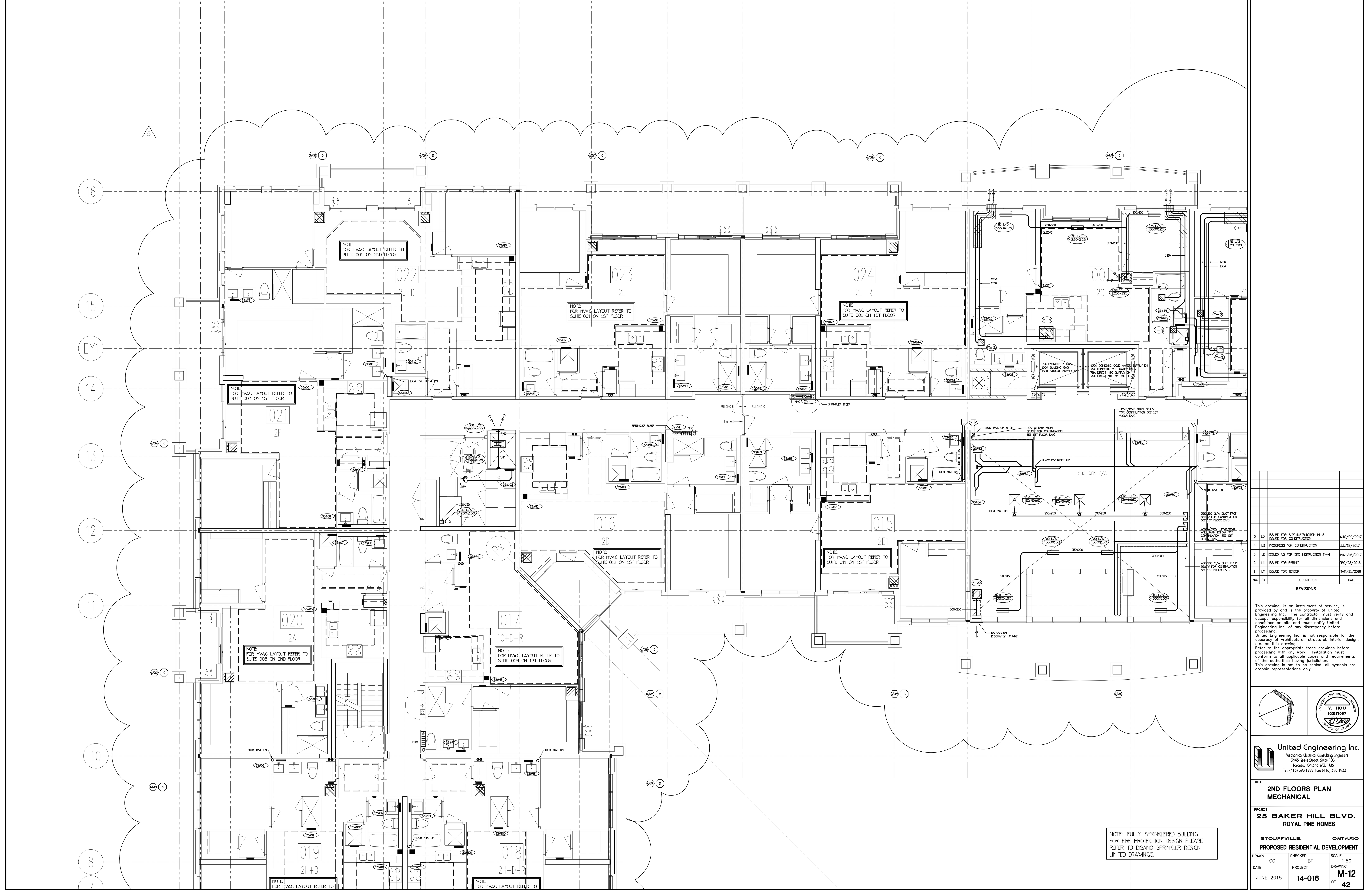
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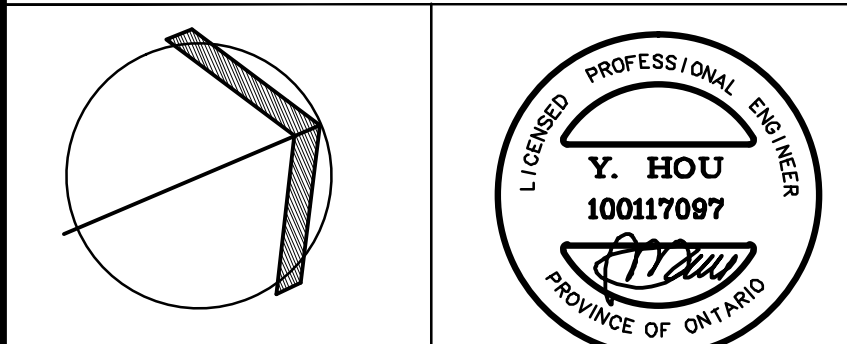
United Engineering Inc.
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TITLE 2ND FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-11
DATE JUNE 2015	PROJECT 14-016	OF 42	



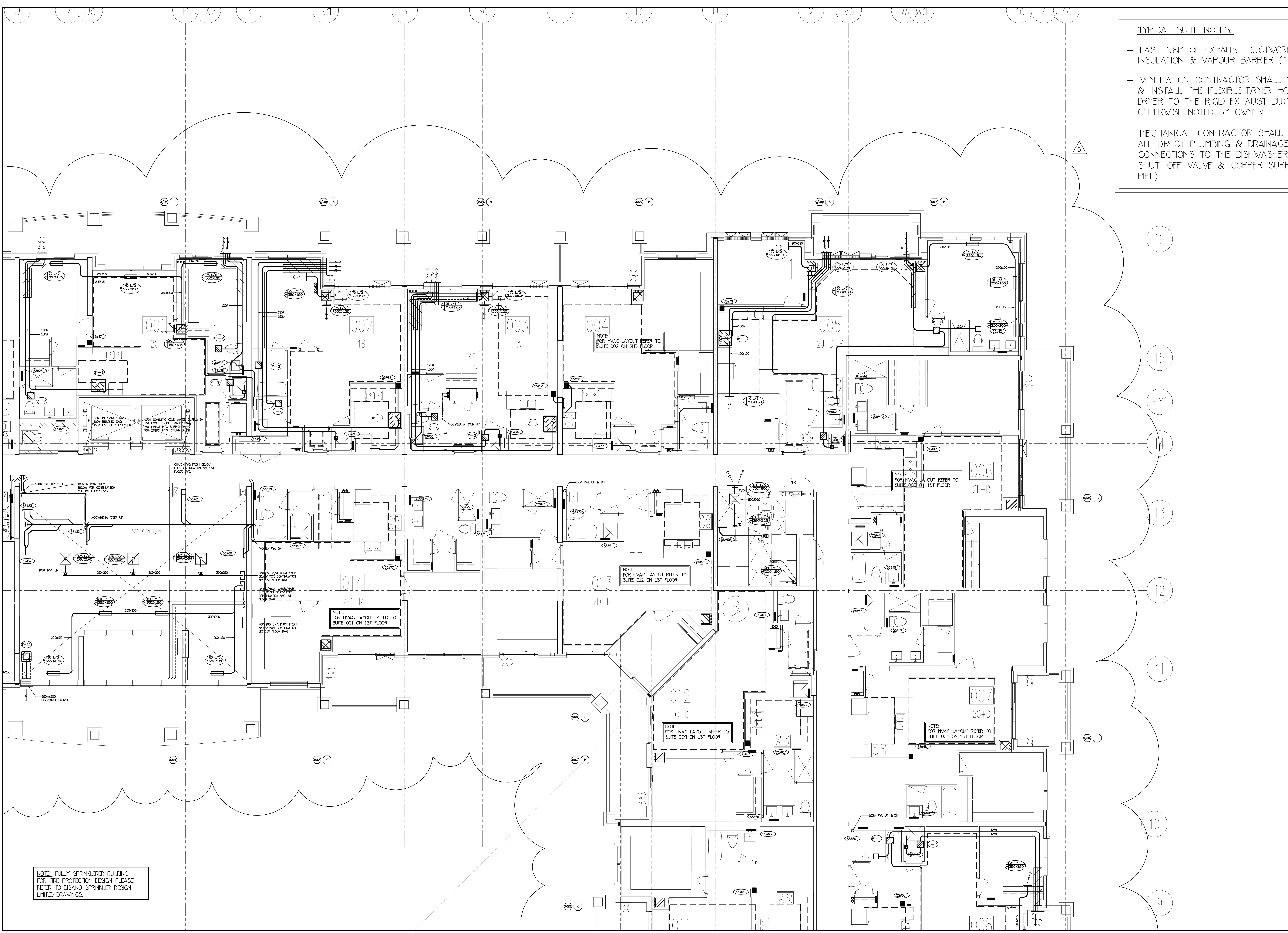
NO.	BY	DESCRIPTION	DATE
5	LB	ISSUED FOR SITE INSTRUCTION M-5	AUG/09/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LB	ISSUED AS PER SITE INSTRUCTION M-4	MAY/16/2017
2	LB	ISSUED FOR PERMIT	DEC/28/2016
1	LB	ISSUED FOR TENDER	MAY/21/2016

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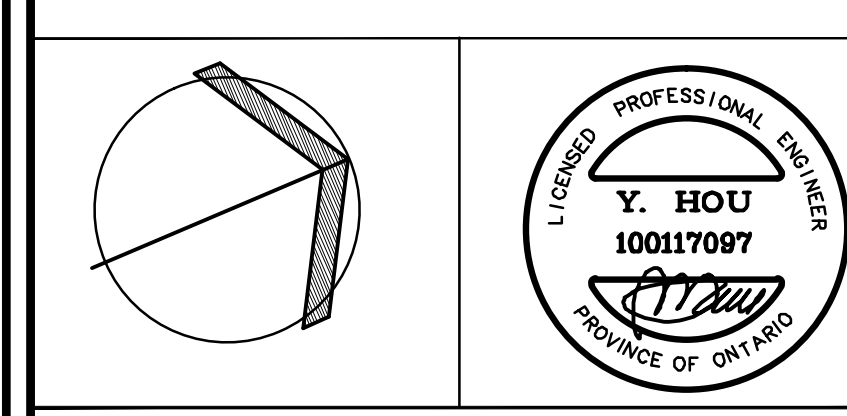
TITLE 2ND FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-12
DATE JUNE 2015	PROJECT 14-016	OF 42	



NO.	BY	DESCRIPTION	DATE
5	LD	ISSUED AS PER SITE INSTRUCTION H-5	AUG/01/2017
4	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LD	ISSUED AS PER SITE INSTRUCTION H-4	MAY/16/2017
2	LD	ISSUED FOR PERMIT	DEC/28/2016
1	LD	ISSUED FOR TENDER	MAR/21/2016

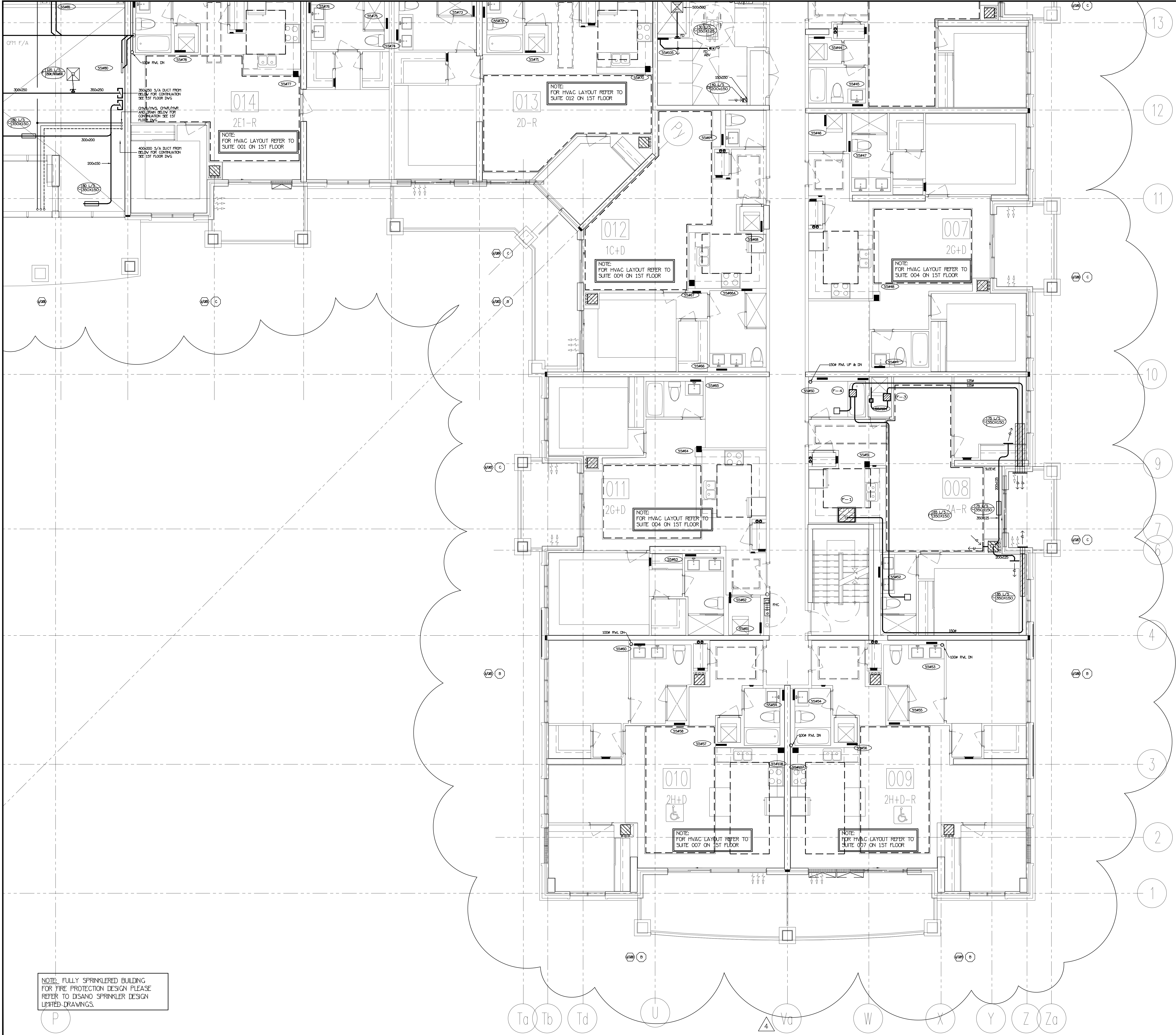
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TITLE 2ND FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	DATE JUNE 2015	SCALE 1:50 DRAWING M-13 OF 42

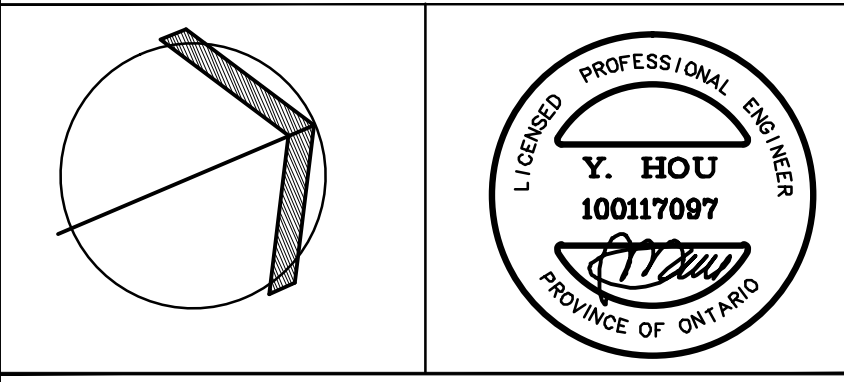


NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DS&NO SPRINKLER DESIGN UNITED DRAWINGS.

NO.	BY	DESCRIPTION	DATE
4	LB	ISSUED FOR SITE INSTRUCTION M-5	AUG/01/2017
3	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

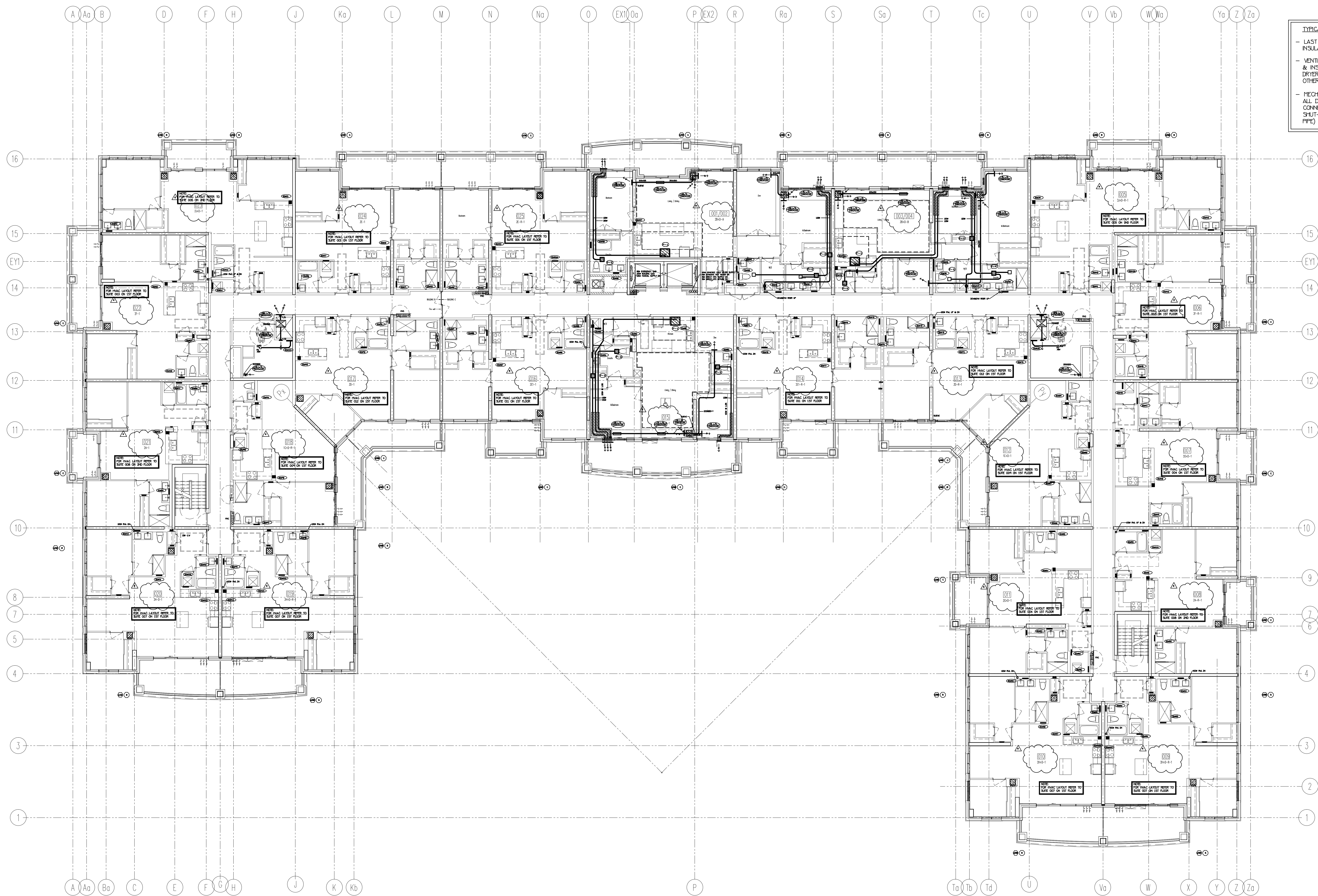
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TITLE 2ND FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-14
DATE JUNE 2015	PROJECT 14-016	OF 42	



TYPICAL SUITE NOTES:

- LAST 1.8M OF EXHAUST DUCTWORK C/V INSULATION & VAPOUR BARRIER (TYPICAL)
- VENTILATION CONTRACTOR SHALL SUPPLY & INSTALL THE FLEXIBLE DRYER HOSE FROM DRYER TO THE RIGID EXHAUST DUCT UNLESS OTHERWISE NOTED BY OWNER
- MECHANICAL CONTRACTOR SHALL MAKE ALL DIRECT PLUMBING & DRAINAGE CONNECTIONS TO THE DISHWASHER (C/V SHUT-OFF VALVE & COPPER SUPPLY PIPE)

NO.	BY	DESCRIPTION	DATE
6	LB	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LB	ISSUED AS PER SITE INSTRUCTION H-4	MAY/16/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

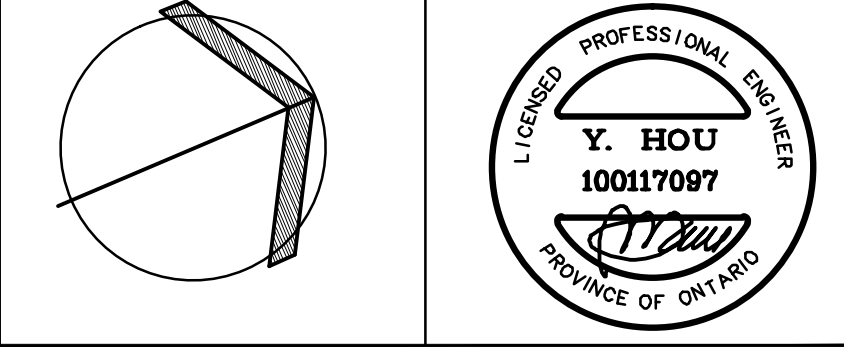
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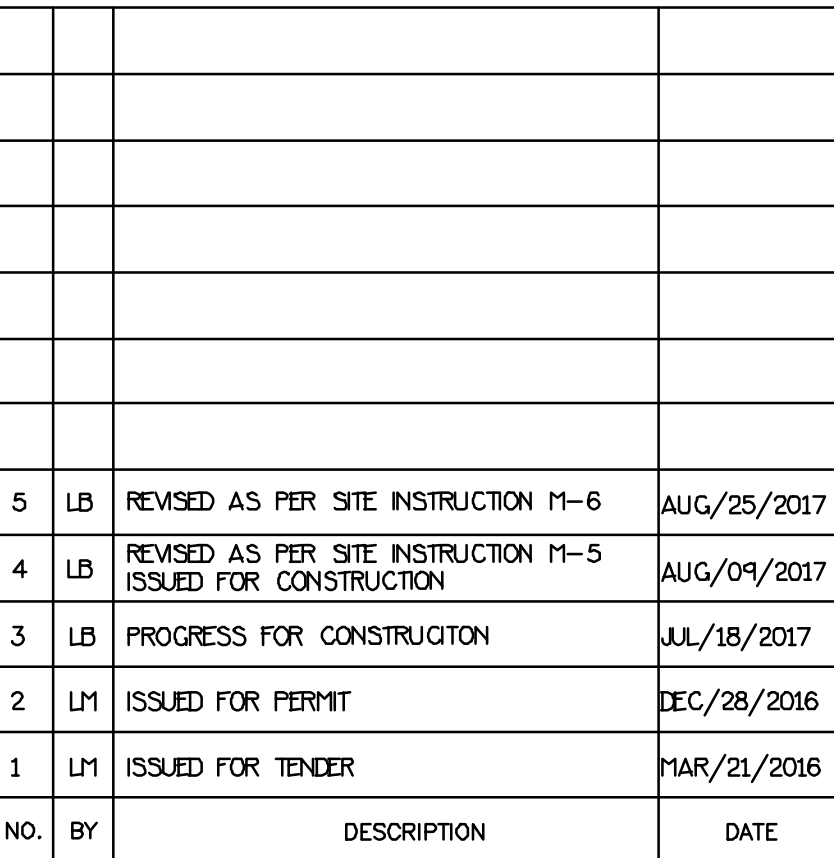
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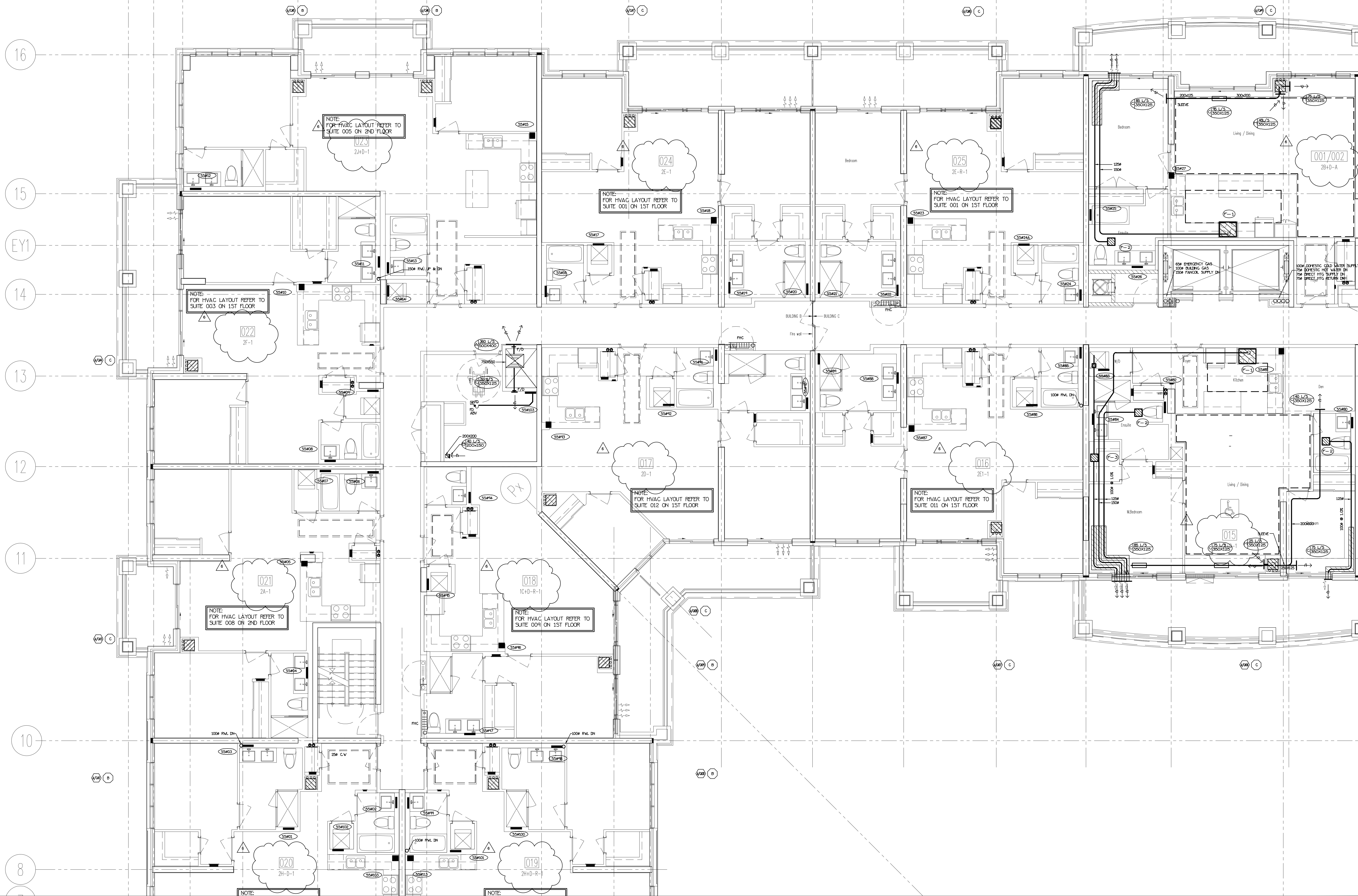


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TITLE PART 3RD AND 4TH FLOORS MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:100	
DATE JUNE 2015	PROJECT 14-016	DRAWING M-15 OF 42	



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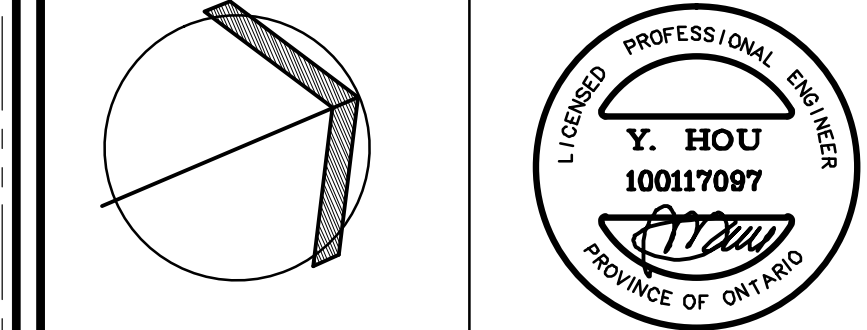
REVISIONS		
NO.	BY	DESCRIPTION
6	LB	REVISED AS PER SITE INSTRUCTION H-6
5	LB	REVISED AS PER SITE INSTRUCTION H-5
4	LB	PROGRESS FOR CONSTRUCTION
3	LB	ISSUED FOR SITE INSTRUCTION H-4
2	LB	ISSUED FOR PERMIT
1	LB	ISSUED FOR TENDER

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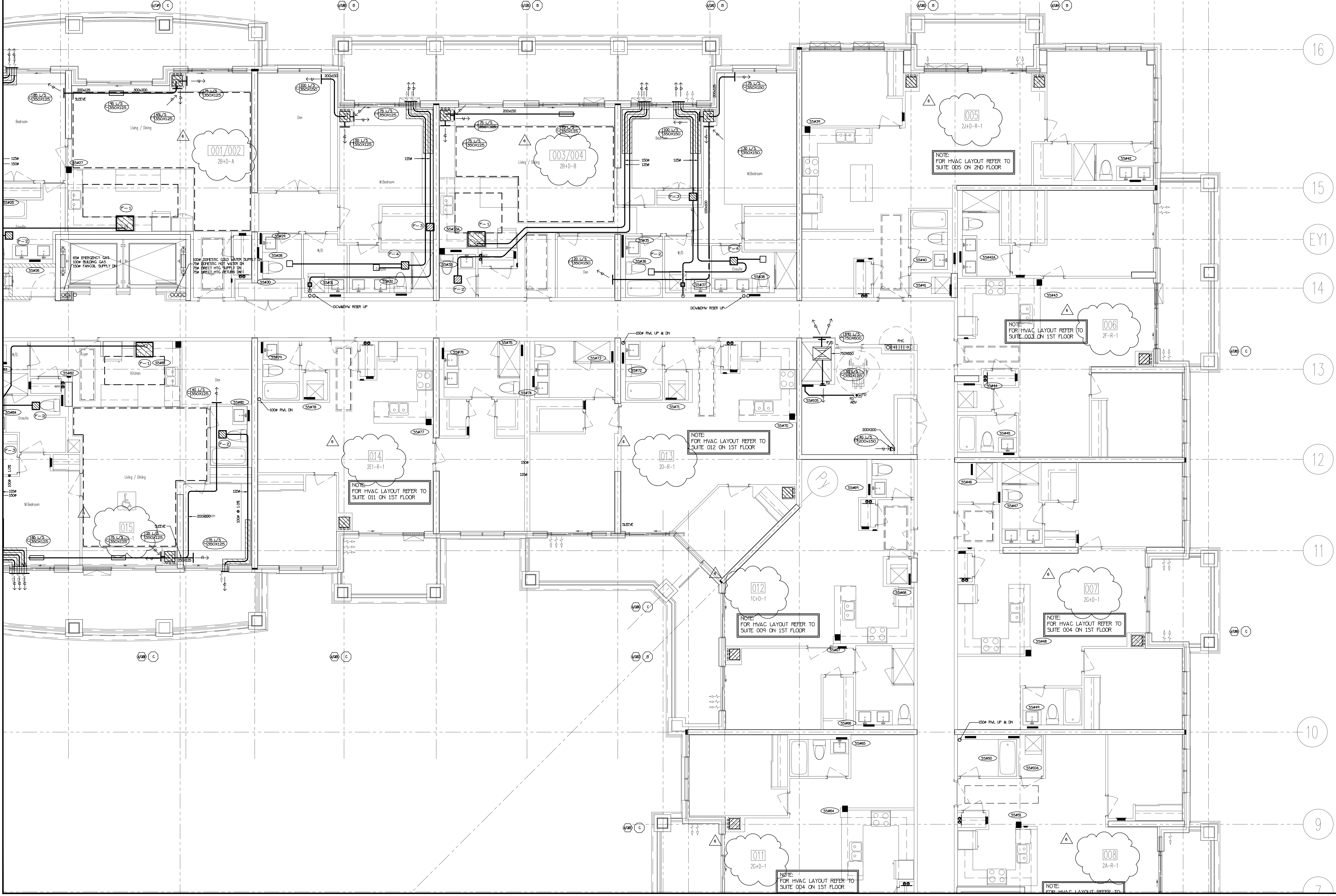
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PART 3RD FLOORS PLAN MECHANICAL		
PROJECT		
25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO		
PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN	CHECKED	SCALE
GC	BT	1:50
DATE	PROJECT	DRAWING
JUNE 2015	14-016	M-17
		OF 42

- LAST 1.8M OF EXHAUST DUCTWORK C/ INSULATION & VAPOUR BARRIER (TYPICAL)
- VENTILATION CONTRACTOR SHALL SUPPLY & INSTALL THE FLEXIBLE DRYER HOSE FROM DRYER TO THE RIGID EXHAUST DUCT UNLESS OTHERWISE NOTED BY OWNER
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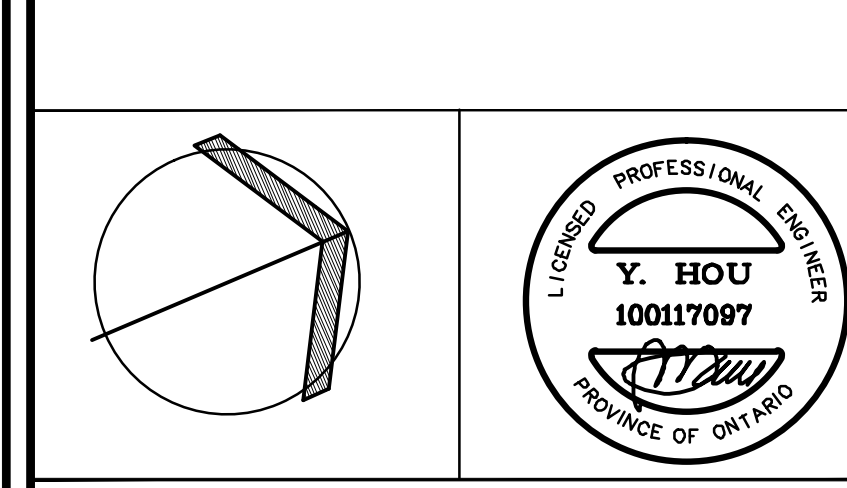


NO.	BY	DESCRIPTION	DATE
6	LB	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
4	LB	ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LB	ISSUED AS PER SITE INSTRUCTION H-4	MAY/16/2017
1	LB	ISSUED FOR PERMIT	DEC/28/2016
0	LB	ISSUED FOR TENDER	MAR/21/2016

NO.	BY	DESCRIPTION	DATE
6	LB	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
4	LB	ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LB	ISSUED AS PER SITE INSTRUCTION H-4	MAY/16/2017
1	LB	ISSUED FOR PERMIT	DEC/28/2016
0	LB	ISSUED FOR TENDER	MAR/21/2016

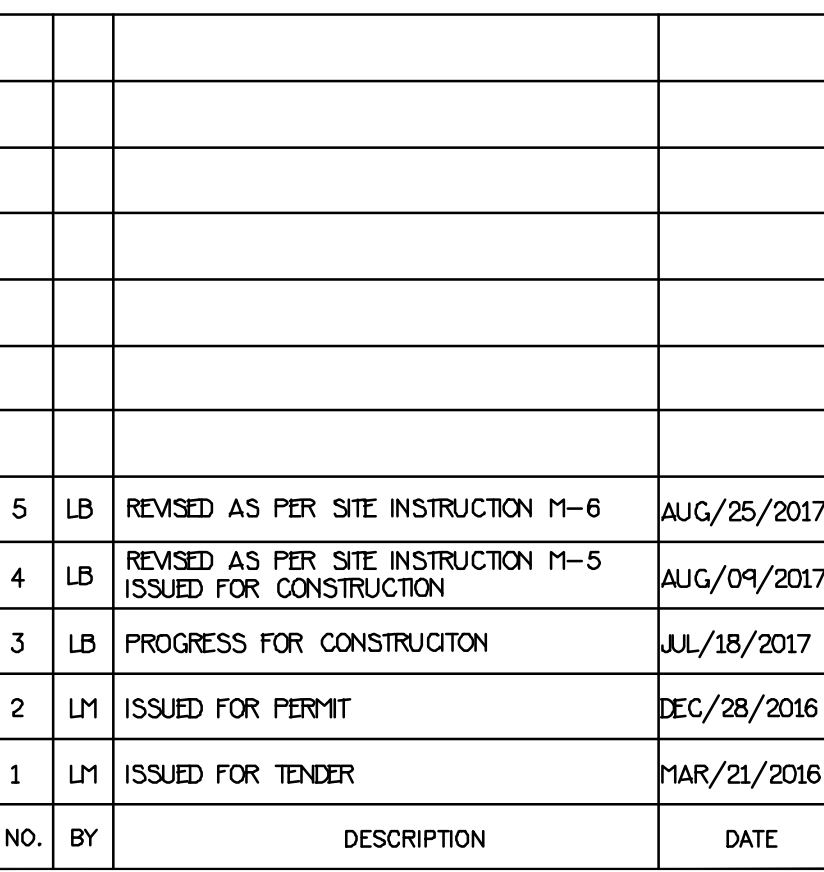
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TITLE PART 3RD FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	
DATE JUNE 2015	PROJECT 14-016	DRAWING M-18	
		OF 42	



TITLE

PART 3RD FLOORS PLAN
MECHANICAL

PROJECT
25 BAKER HILL BLVD.
ROYAL PINE HOMES

STOUFFVILLE, ONTARIO

DRAWN	CHECKED	SCALE
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DRAWN	CHECKED	SCALE
CC	DT	1:50

DRAWN	CHECKED	SCALE
GC	BT	1:50

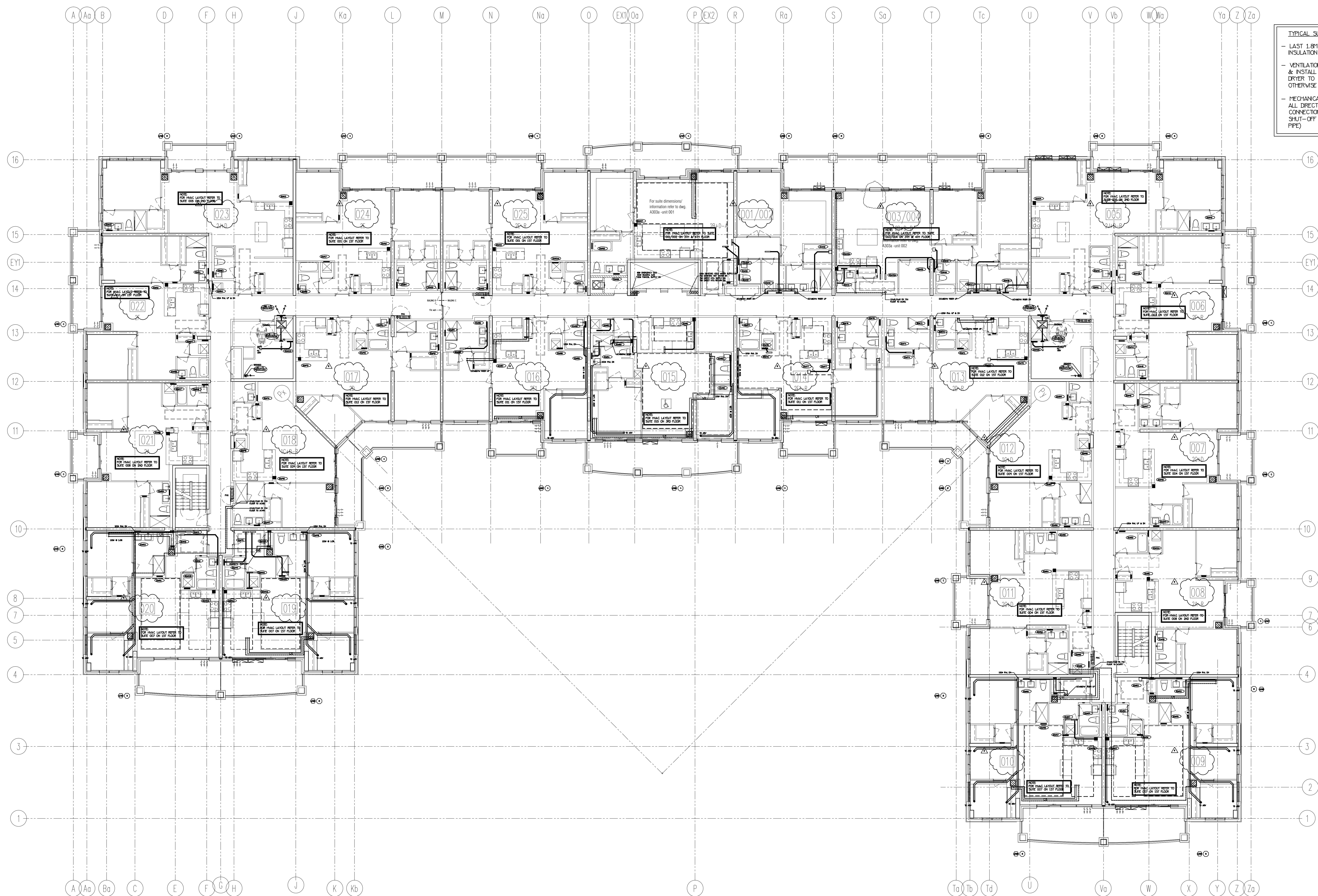
DATE	PROJECT	DRAWING M-10
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DATE	PROJECT	DRAWING M-19
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JUNE 2015	14-016	OF 42
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JUNE 2015	14-016	OF 42
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	11 OF 42
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TYPICAL SUITE NOTES:

- LAST 1.8M OF EXHAUST DUCTWORK C/W INSULATION & VAPOUR BARRIER (TYPICAL)
- VENTILATION CONTRACTOR SHALL SUPPLY & INSTALL THE FLEXIBLE DRYER HOSE FROM DRYER TO THE RIGID EXHAUST DUCT UNLESS OTHERWISE NOTED BY OWNER
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NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DISANO SPRINKLER DESIGN LIMITED DRAWINGS.

6	LD	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017
5	LD	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
4	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LD	REVISED AS PER SITE INSTRUCTION H-4	MAY/16/2017
2	LD	ISSUED FOR PERMIT	DEC/28/2016
1	LD	ISSUED FOR TENDER	MAR/21/2016
NO.	BY	DESCRIPTION	DATE

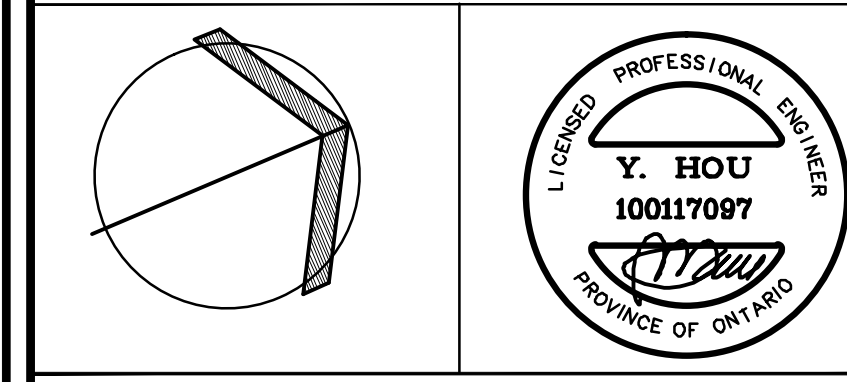
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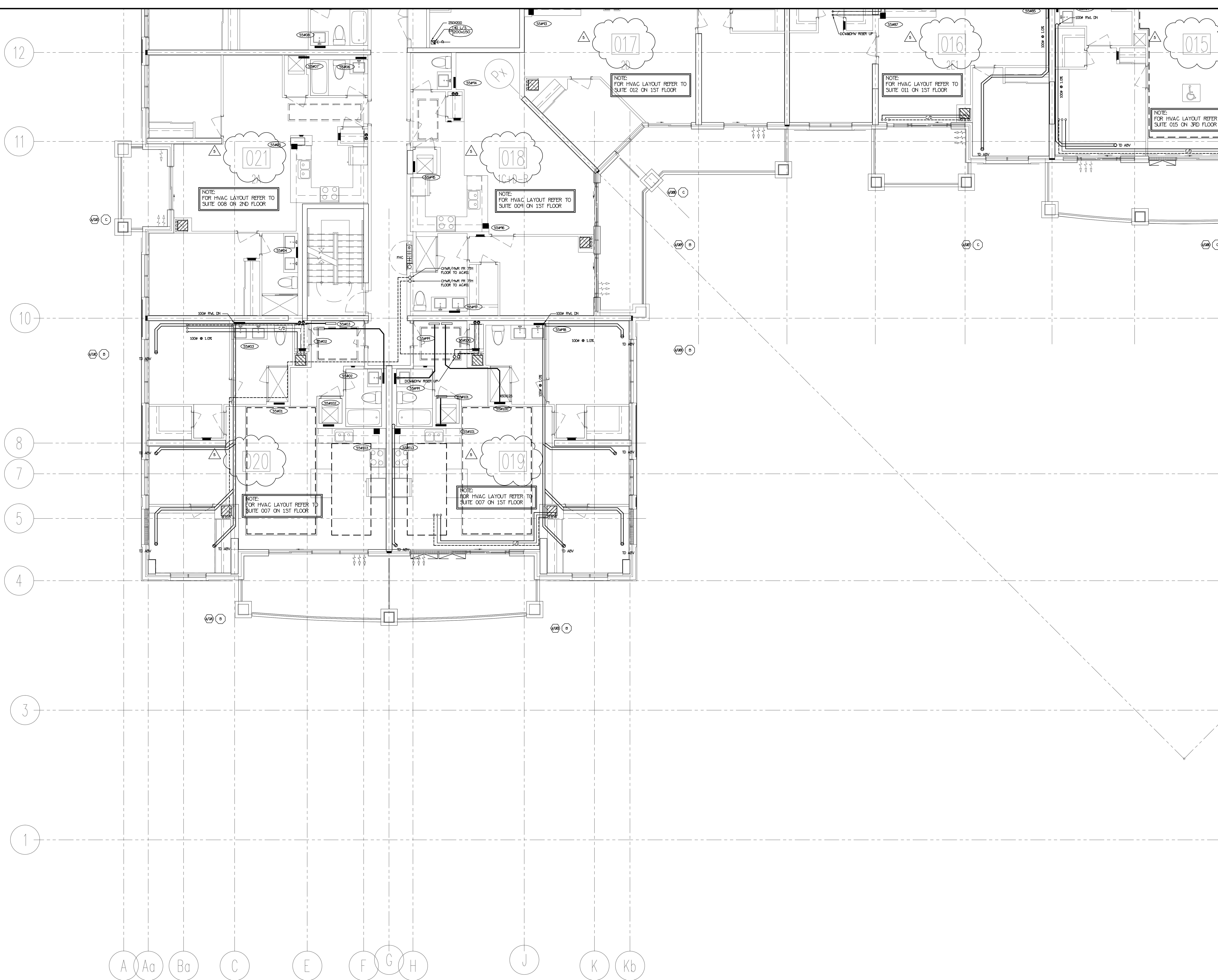
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TITLE PART 5TH FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:100	
DATE JUNE 2015	PROJECT 14-016	DRAWING M-20 OF 42	

NOTE: FULLY SPRINKLERED BUILDING
FOR FIRE PROTECTION DESIGN PLEASE
REFER TO DESAND SPRINKLER DESIGN
LIMITED DRAWINGS.



NO.	BY	DESCRIPTION	DATE
5	LB	REVISED AS PER SITE INSTRUCTION T1-6	AUG/25/2017
4	LD	REVISED AS PER SITE INSTRUCTION T1-5 ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

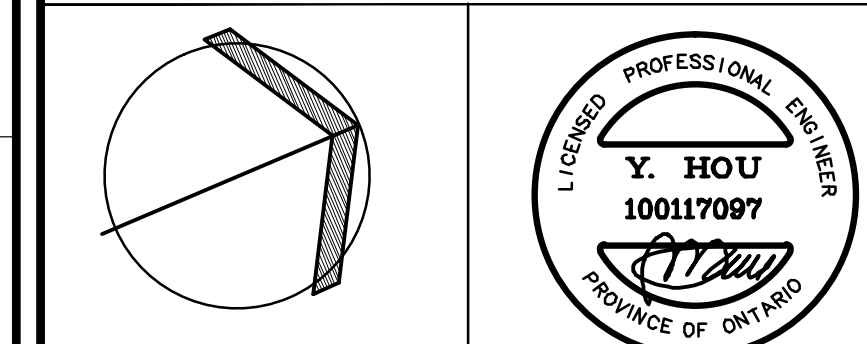
REVISIONS

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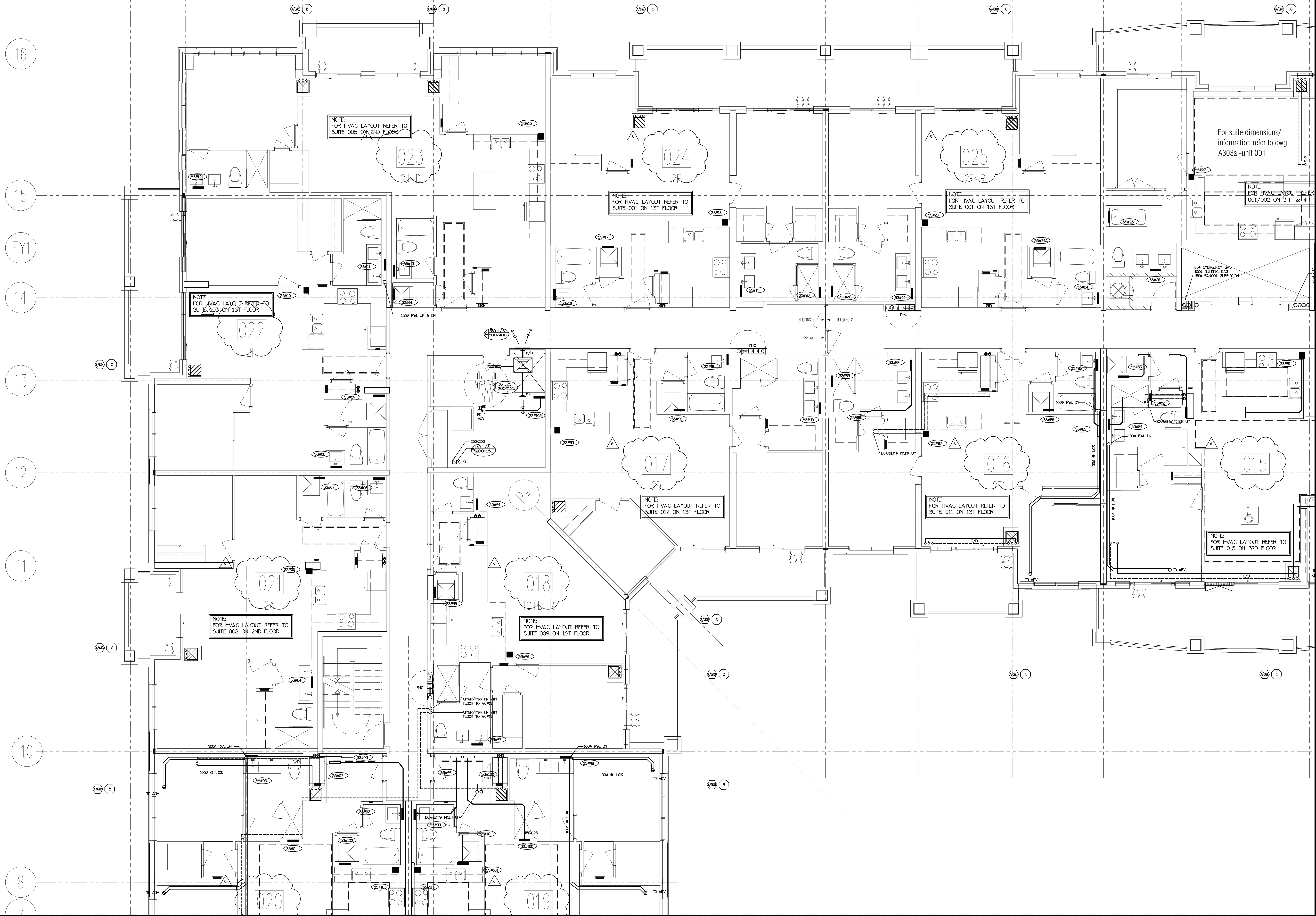
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TITLE		PART 6TH FLOORS PLAN MECHANICAL	
PROJECT		25 BAKER HILL BLVD. ROYAL PINE HOMES	
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN	GC	CHECKED	BT
DATE	JUNE 2015	PROJECT	14-016
		DRAWING	M-21
		OF	42

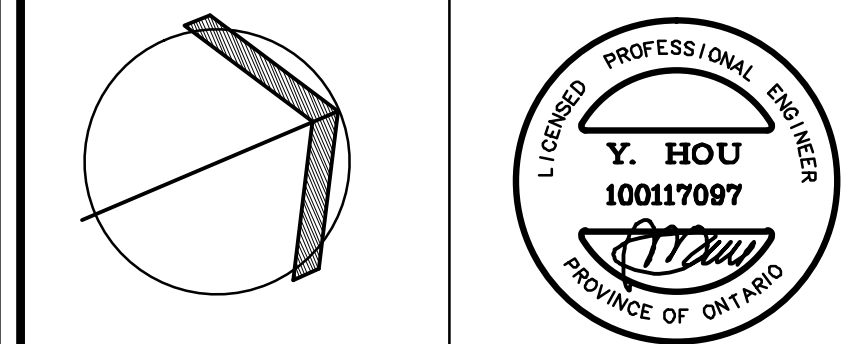
NOTE: FULLY SPRINKLERED BUILDING.
FOR FIRE PROTECTION DESIGN PLEASE
REFER TO DSAND SPRINKLER DESIGN
UNITED DRAWINGS.



NO.	BY	DESCRIPTION	DATE
6	LB	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
4	LB	ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LB	ISSUED AS PER SITE INSTRUCTION H-4	MAY/16/2017
1	LB	ISSUED FOR PERMIT	DEC/28/2016
1	LB	ISSUED FOR TENDER	MAR/21/2016

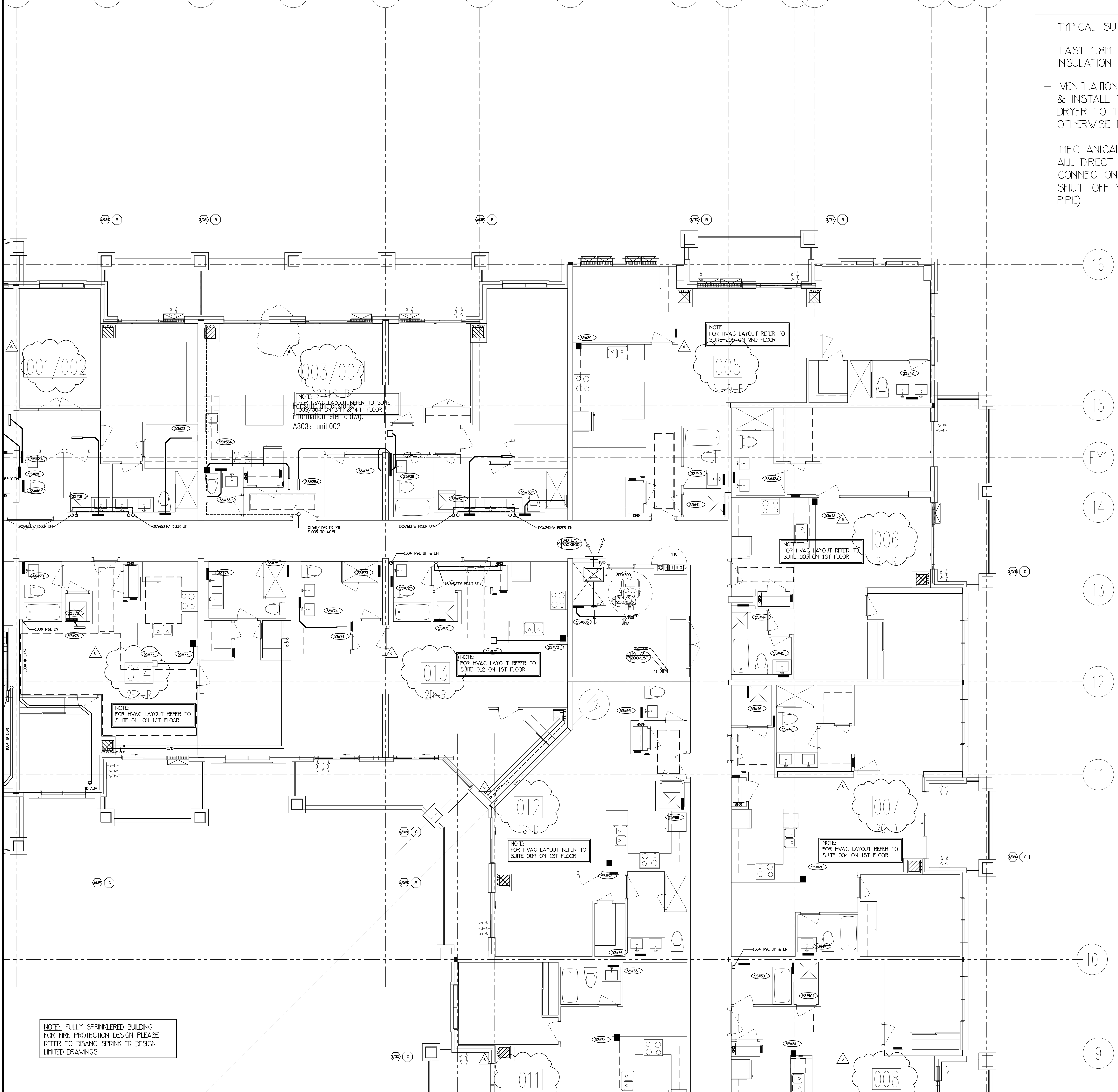
NO.	BY	DESCRIPTION	DATE
1	LB	ISSUED FOR TENDER	MAR/21/2016
2	LB	ISSUED FOR PERMIT	DEC/28/2016
3	LB	ISSUED AS PER SITE INSTRUCTION H-4	MAY/16/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
6	LB	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017

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TITLE PART 5TH FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	
DATE JUNE 2015	PROJECT 14-016	DRAWING M-22	
		OF 42	

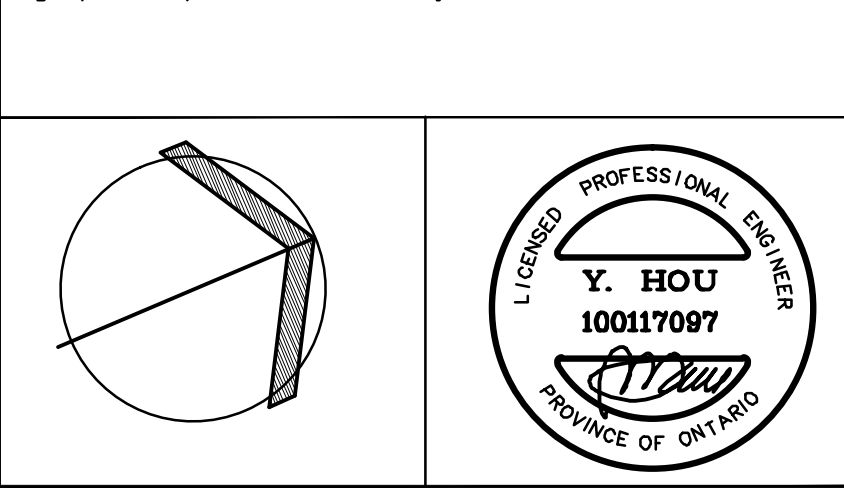


- TYPICAL SUITE NOTES:
- LAST 1.8M OF EXHAUST DUCTWORK C/W INSULATION & VAPOUR BARRIER (TYPICAL)
 - VENTILATION CONTRACTOR SHALL SUPPLY & INSTALL THE FLEXIBLE DRYER HOSE FROM DRYER TO THE RIGID EXHAUST DUCT UNLESS OTHERWISE NOTED BY OWNER
 - MECHANICAL CONTRACTOR SHALL MAKE ALL DIRECT PLUMBING & DRAINAGE CONNECTIONS TO THE DISHWASHER (C/W SHUT-OFF VALVE & COPPER SUPPLY PIPE)

NO.	BY	DESCRIPTION	DATE
6	LB	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LB	ISSUED AS PER SITE INSTRUCTION H-4	MAY/16/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

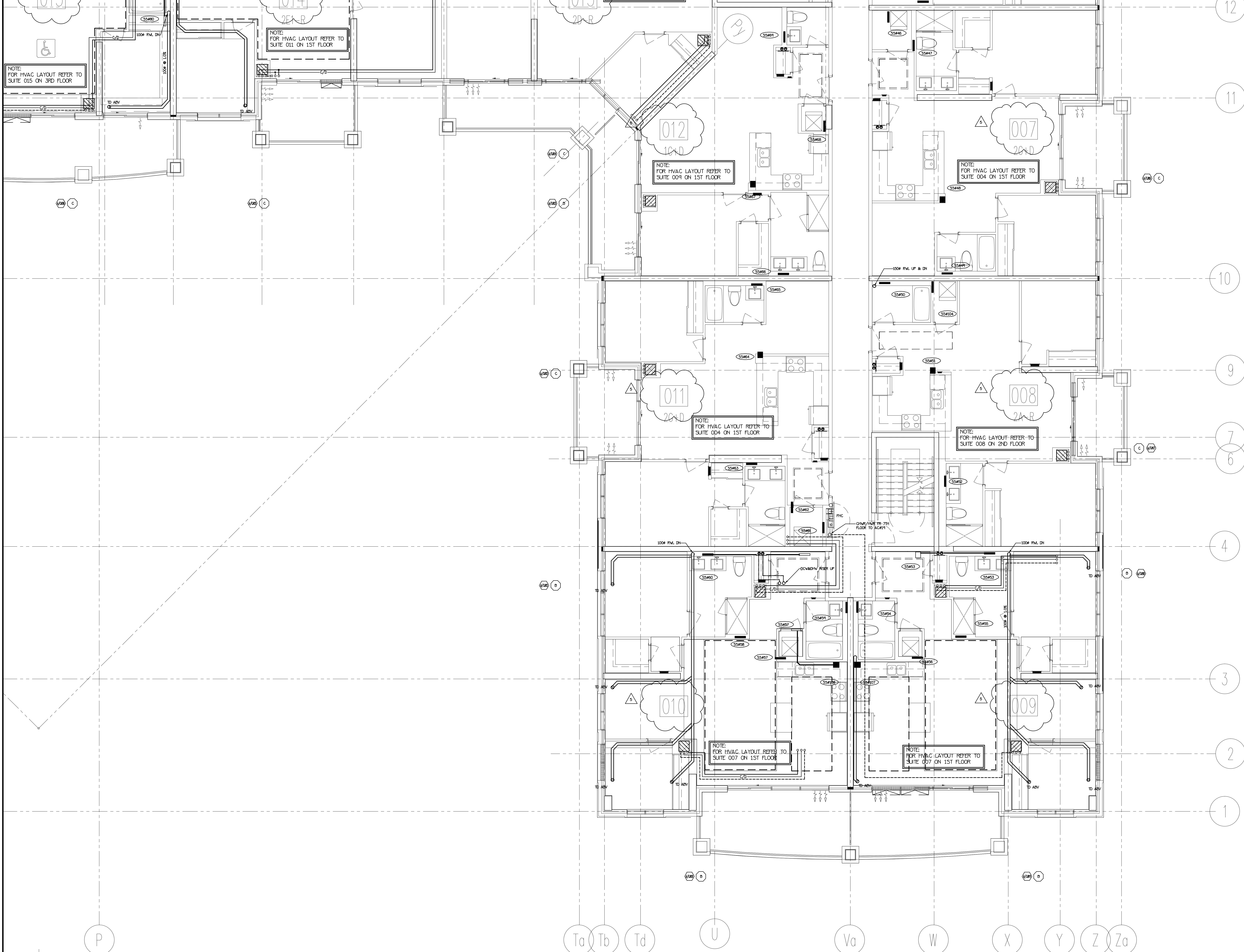
NO.	BY	DESCRIPTION	DATE
6	LB	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LB	ISSUED AS PER SITE INSTRUCTION H-4	MAY/16/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

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TITLE PART 5TH FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT			
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-23
DATE JUNE 2015	PROJECT 14-016	OF 42	

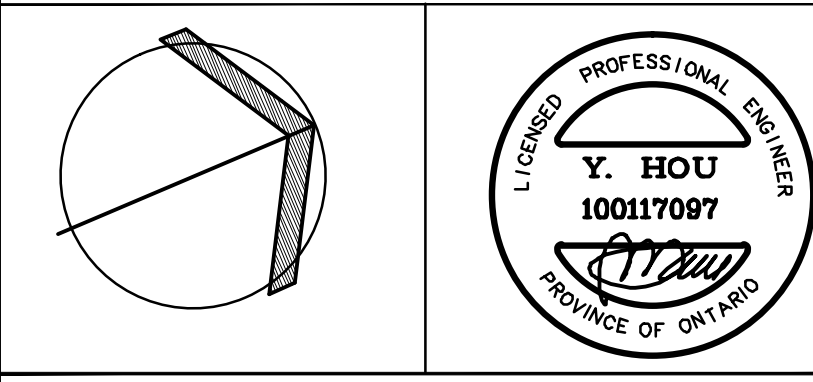


NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DSAND SPRINKLER DESIGN LIMITED DRAWINGS.

NO.	BY	DESCRIPTION	DATE
5	LB	REVISED AS PER SITE INSTRUCTION H-8	AUG/25/2017
4	LD	REVISED AS PER SITE INSTRUCTION H-5 ISSUED FOR CONSTRUCTION	AUG/14/2017
3	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

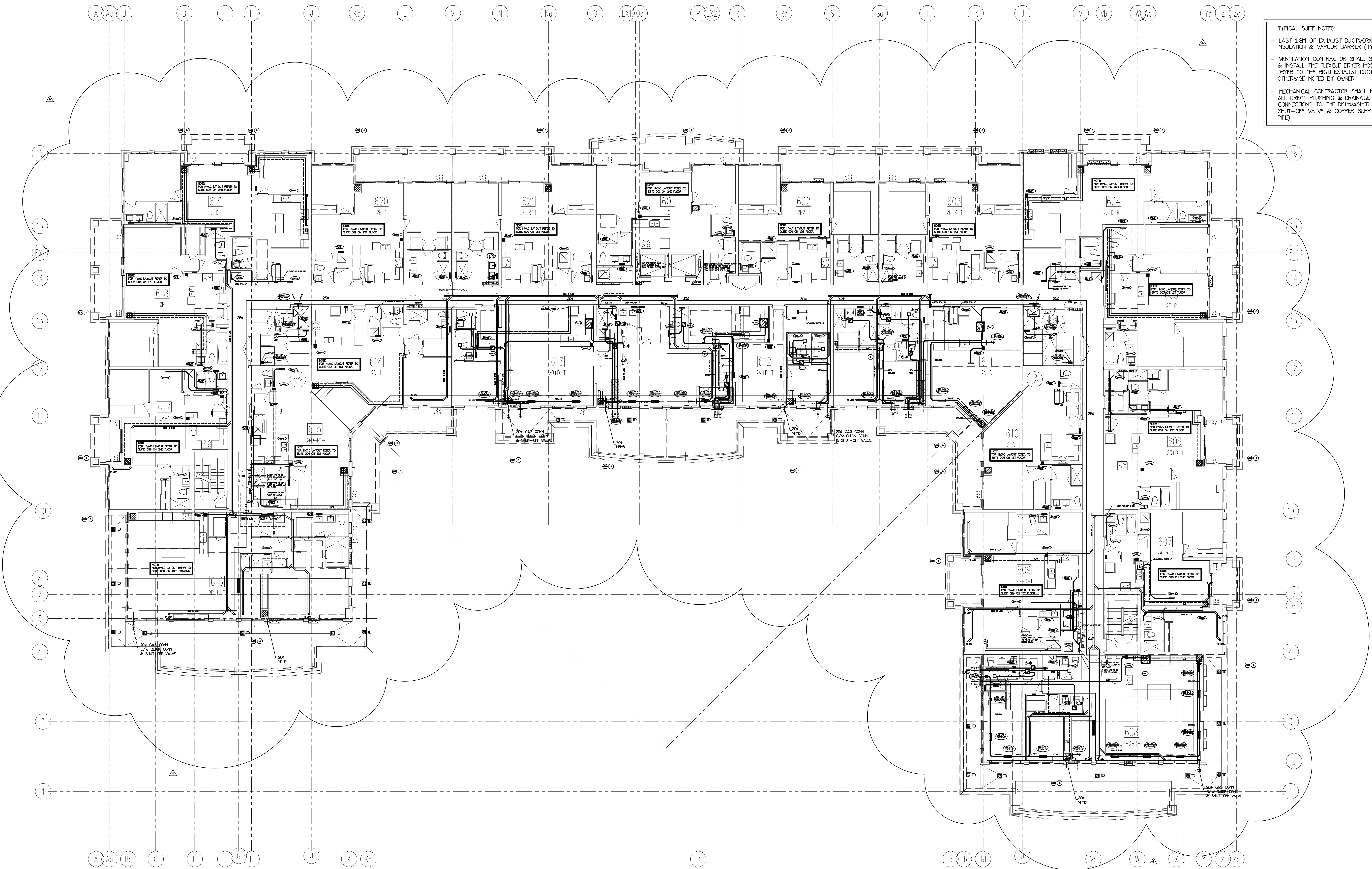
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TITLE PART 5TH FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	
DATE JUNE 2015	PROJECT 14-016	DRAWING M-24	
		OF 42	

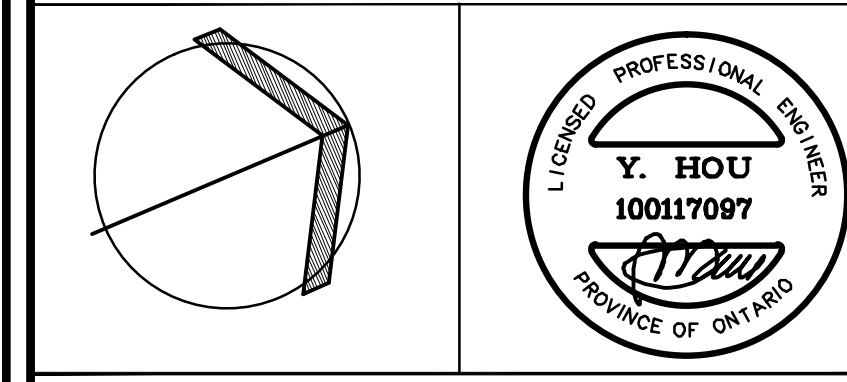


NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DS&NO SPRINKLER DESIGN LIMITED DRAWINGS.

NO.	BY	DESCRIPTION	DATE
4	LD	REVISED AS PER SITE INSTRUCTION P-5 ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LD	PROGRESS FOR CONSTRUCTION	MAY/16/2017
2	LD	ISSUED FOR PERMIT	DEC/28/2016
1	LD	ISSUED FOR TENDER	MAR/21/2016

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TITLE	PART 6TH FLOORS PLAN MECHANICAL		
PROJECT	25 BAKER HILL BLVD. ROYAL PINE HOMES		
LOCATION	STOUFFVILLE, ONTARIO	PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN	GC	CHECKED	BT
DATE	JUNE 2015	PROJECT	14-016
		DRAWING	M-25
		OF	42

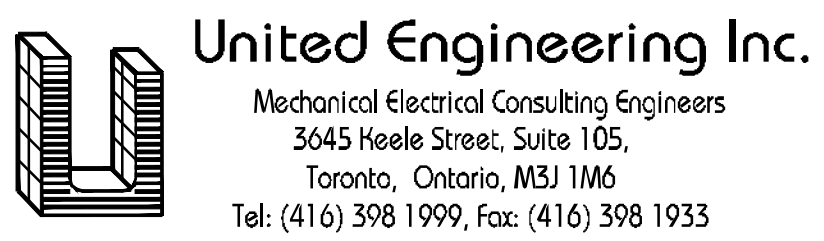


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DATE	PROJECT	DRAWING
JUNE 2015	14-016	M-26
		OF 42

NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DSAND SPRINKLER DESIGN LIMITED DRAWINGS.

NOTE: FOR HVAC LAYOUT REFER TO SUITE 608 ON THIS DRAWING

NOTE: FOR HVAC LAYOUT REFER TO SUITE 005 ON 2ND FLOOR

NOTE: FOR HVAC LAYOUT REFER TO SUITE 003 ON 1ST FLOOR

NOTE: FOR HVAC LAYOUT REFER TO SUITE 008 ON 2ND FLOOR

NOTE: FOR HVAC LAYOUT REFER TO SUITE 009 ON 1ST FLOOR

NOTE: FOR HVAC LAYOUT REFER TO SUITE 012 ON 1ST FLOOR

NOTE: FOR HVAC LAYOUT REFER TO SUITE 001 ON 1ST FLOOR

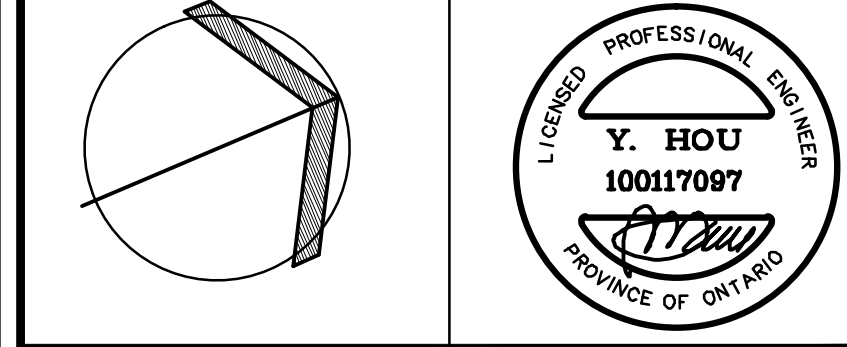
NOTE: FOR HVAC LAYOUT REFER TO SUITE 001 ON 1ST FLOOR

NOTE: FOR HVAC LAYOUT REFER TO SUITE 001 ON 2ND FLOOR

NO.	BY	DESCRIPTION	DATE
4	LD	REVISED AS PER SITE INSTRUCTION M-5 ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LD	PROGRESS FOR CONSTRUCTION	MAY/16/2017
2	LD	ISSUED FOR PERMIT	DEC/28/2016
1	LD	ISSUED FOR TENDER	MAR/21/2016

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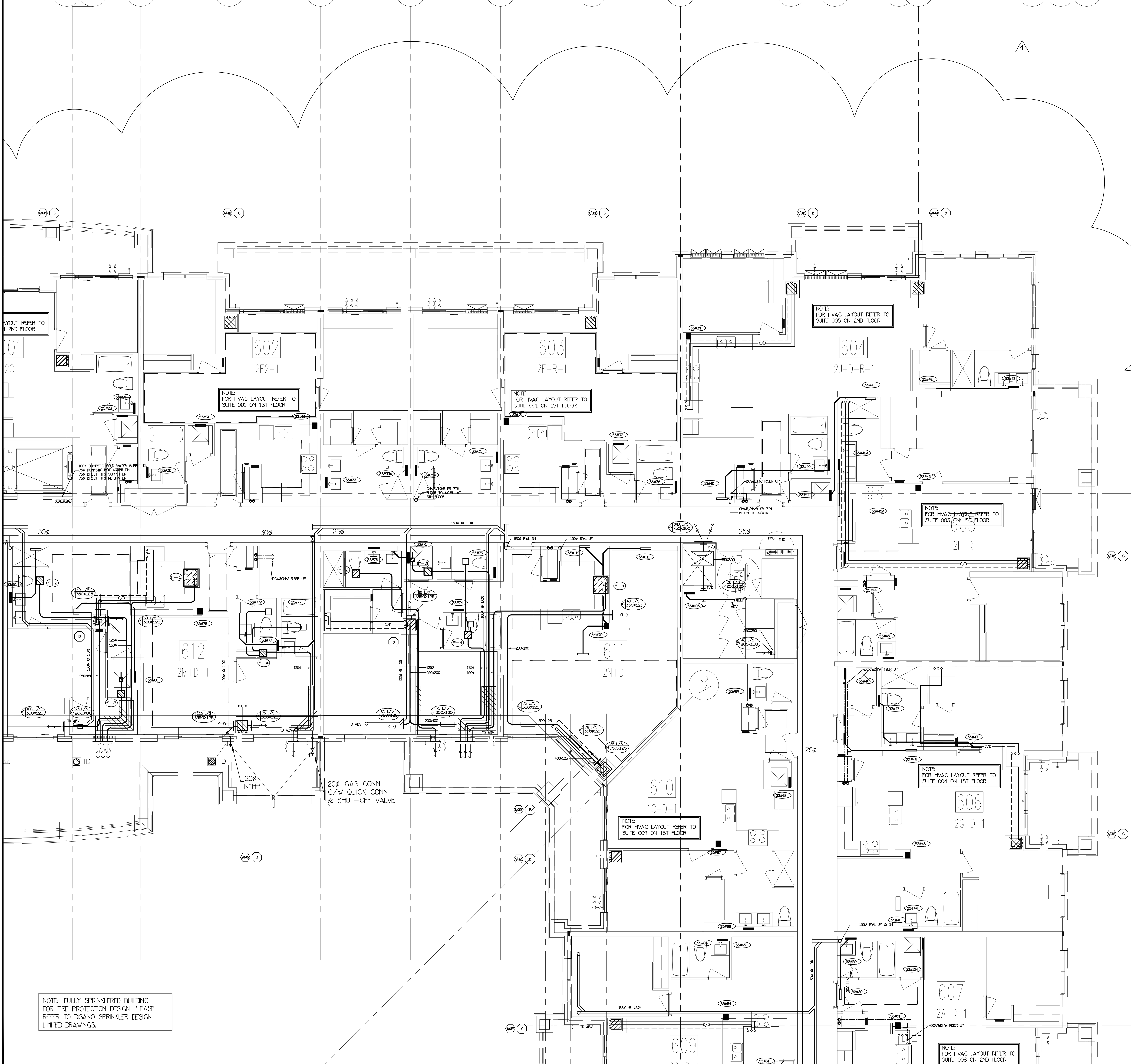
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PART 6TH FLOORS PLAN MECHANICAL

PROJECT
**25 BAKER HILL BLVD.
ROYAL PINE HOMES**

STOUFFVILLE, ONTARIO
PROPOSED RESIDENTIAL DEVELOPMENT

DRAWN	GC	CHECKED	BT	SCALE	1:50
DATE	JUNE 2015	PROJECT	14-016	DRAWING	M-27
				OF	42



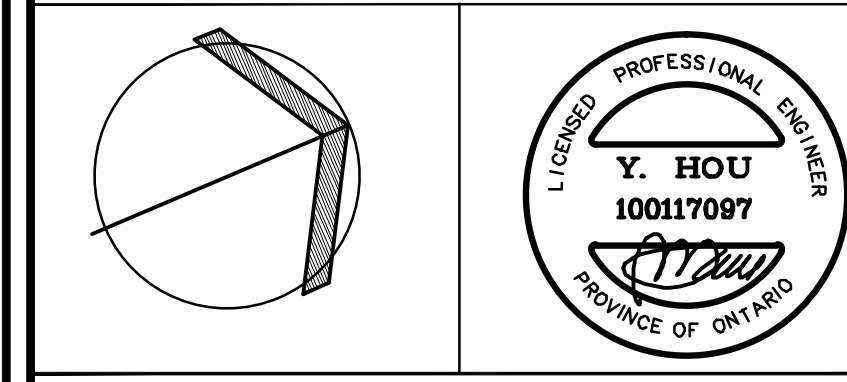
- TYPICAL SUITE NOTES:
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NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DSAND SPRINKLER DESIGN UNITED DRAWINGS.

NO.	BY	DESCRIPTION	DATE
4	LD	REVISED AS PER SITE INSTRUCTION M-5 ISSUED FOR CONSTRUCTION	AUG/14/2017
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1	LD	ISSUED FOR TENDER	MAR/21/2016

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TITLE PART 6TH FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-28
DATE JUNE 2015	PROJECT 14-016	OF 42	



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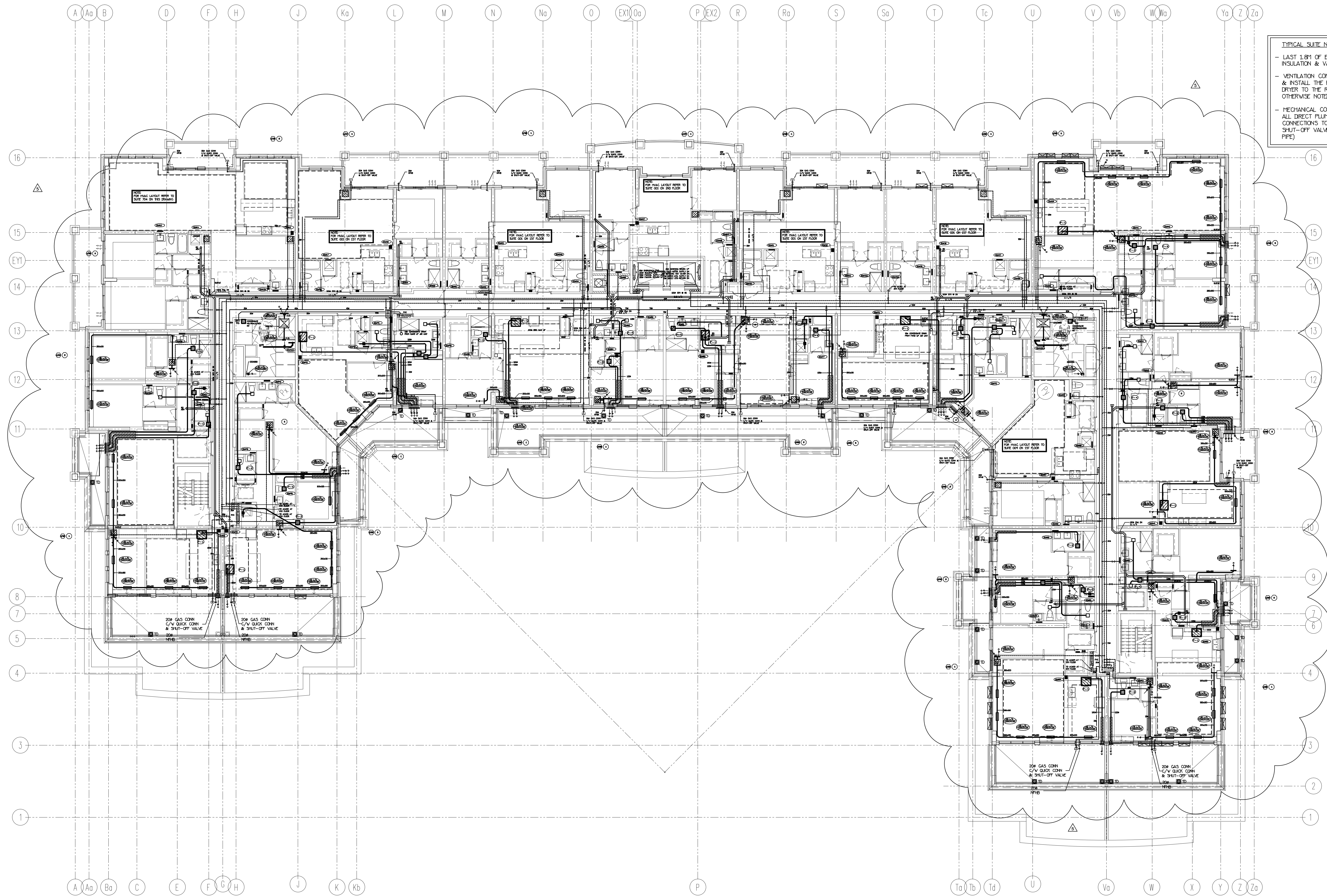
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PROJECT
25 BAKER HILL BLVD.
ROYAL PINE HOMES

STOUFFVILLE,		ONTARIO
PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN	CHECKED	SCALE
GC	BT	1:50
DATE	PROJECT	DRAWING
JUNE 2015	14-016	M-29
		OF 42



TYPICAL SUITE NOTES:

- LAST 1.8M OF EXHAUST DUCTWORK C/V INSULATION & VAPOUR BARRIER (TYPICAL)
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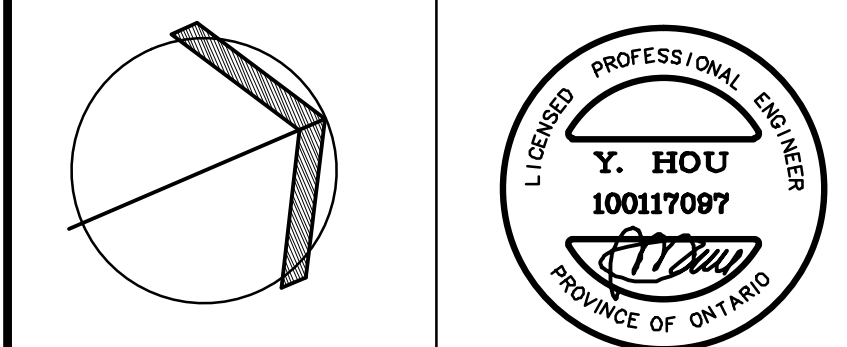
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	4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
	3	LH	ISSUED FOR PERMIT	JUL/28/2016
	2	OP	REVISED AS PER SITE INSTRUCTION H-2	AUG/16/2016
	1	LH	ISSUED FOR TENDER	MAR/21/2016
NO.	BY	DESCRIPTION		DATE

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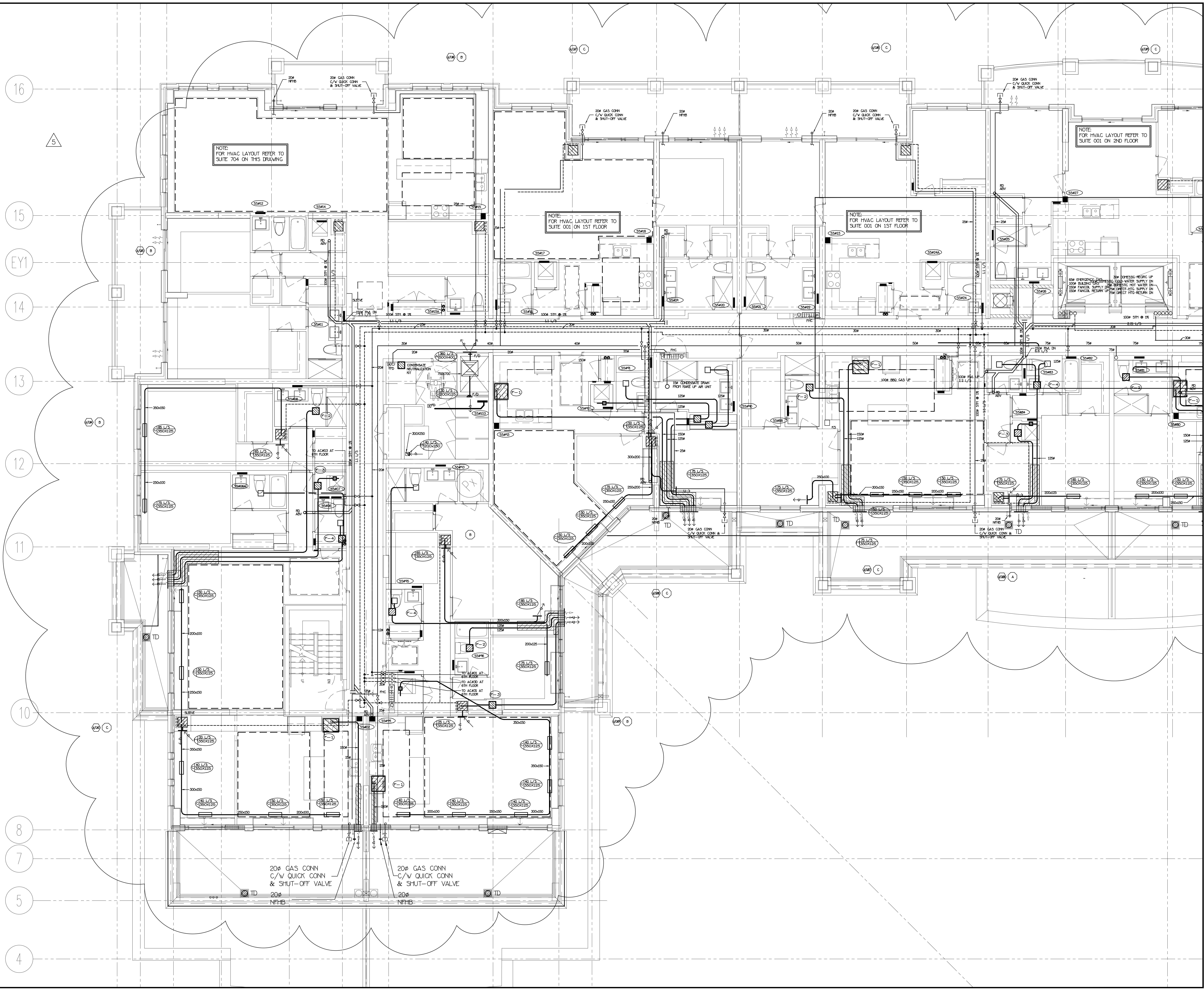
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TITLE		
PART 7TH FLOOR PLAN MECHANICAL		
PROJECT		
25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO		
PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN	CHECKED	SCALE
GC	BT	1:100
DATE	PROJECT	DRAWING
JUNE 2015	14-016	M-30
		OF 42



NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DSANO SPRINKLER DESIGN UNITED DRAWINGS.

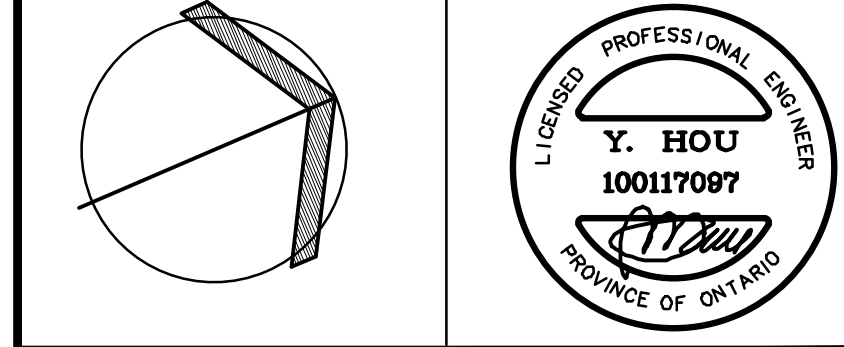
NO.	BY	DESCRIPTION	DATE
5	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/09/2017
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2	LB	ISSUED FOR PERMIT	JUL/18/2017
1	LB	REVISED AS PER SITE INSTRUCTION H-2	AUG/16/2016
1	LB	ISSUED FOR TENDER	MAR/21/2016

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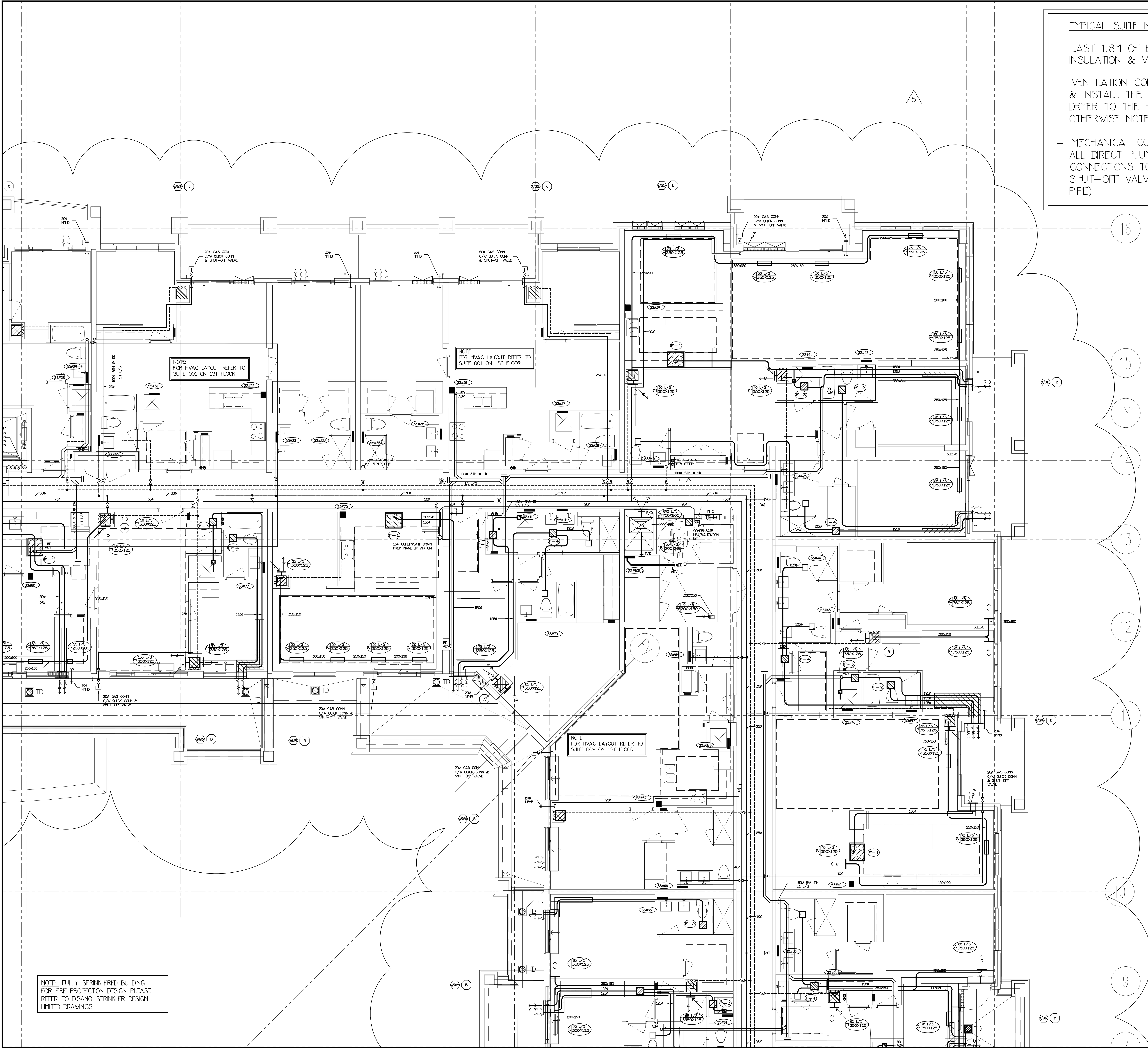
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TITLE		
PART 7TH FLOOR PLAN MECHANICAL		
PROJECT		
25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO		
PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN	CHECKED	SCALE
GC	BT	1:50
DATE	PROJECT	DRAWING
JUNE 2015	14-016	M-31
		OF 42



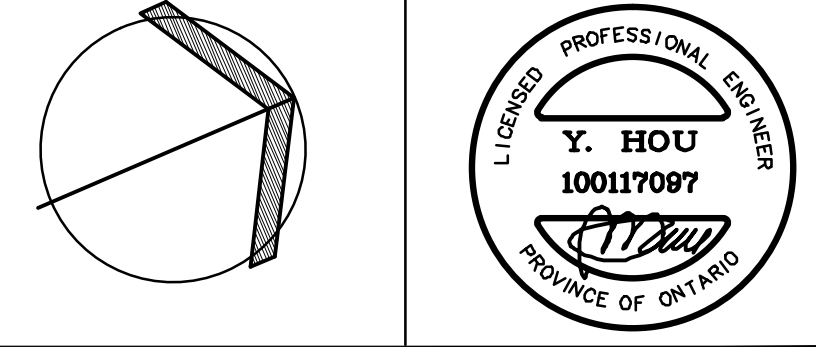
TYPICAL SUITE NOTES:

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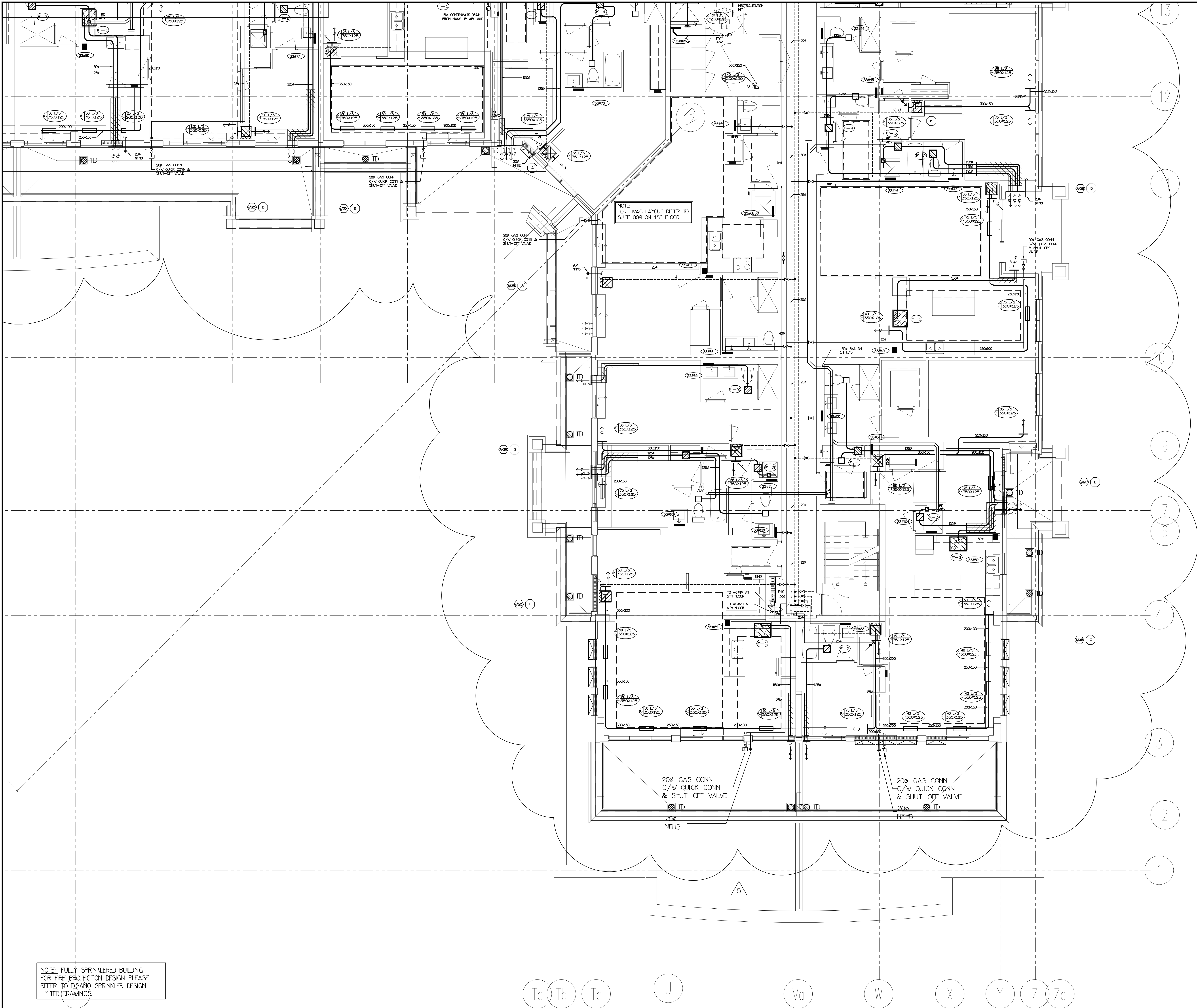
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2	OP	REVISED AS PER SITE INSTRUCTION H-2	AUG/16/2016
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PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE 1:50
DATE JUNE 2015	PROJECT 14-016	DRAWING M-32 OF 42



NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DISANO SPRINKLER DESIGN LIMITED DRAWINGS.

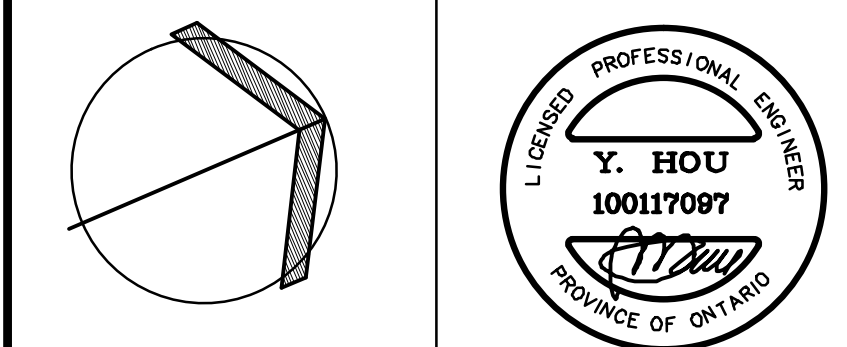
NO.	BY	DESCRIPTION	DATE
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4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LH	ISSUED FOR PERMIT	DEC/28/2016
2	OP	REVISED AS PER SITE INSTRUCTION H-2	AUG/16/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

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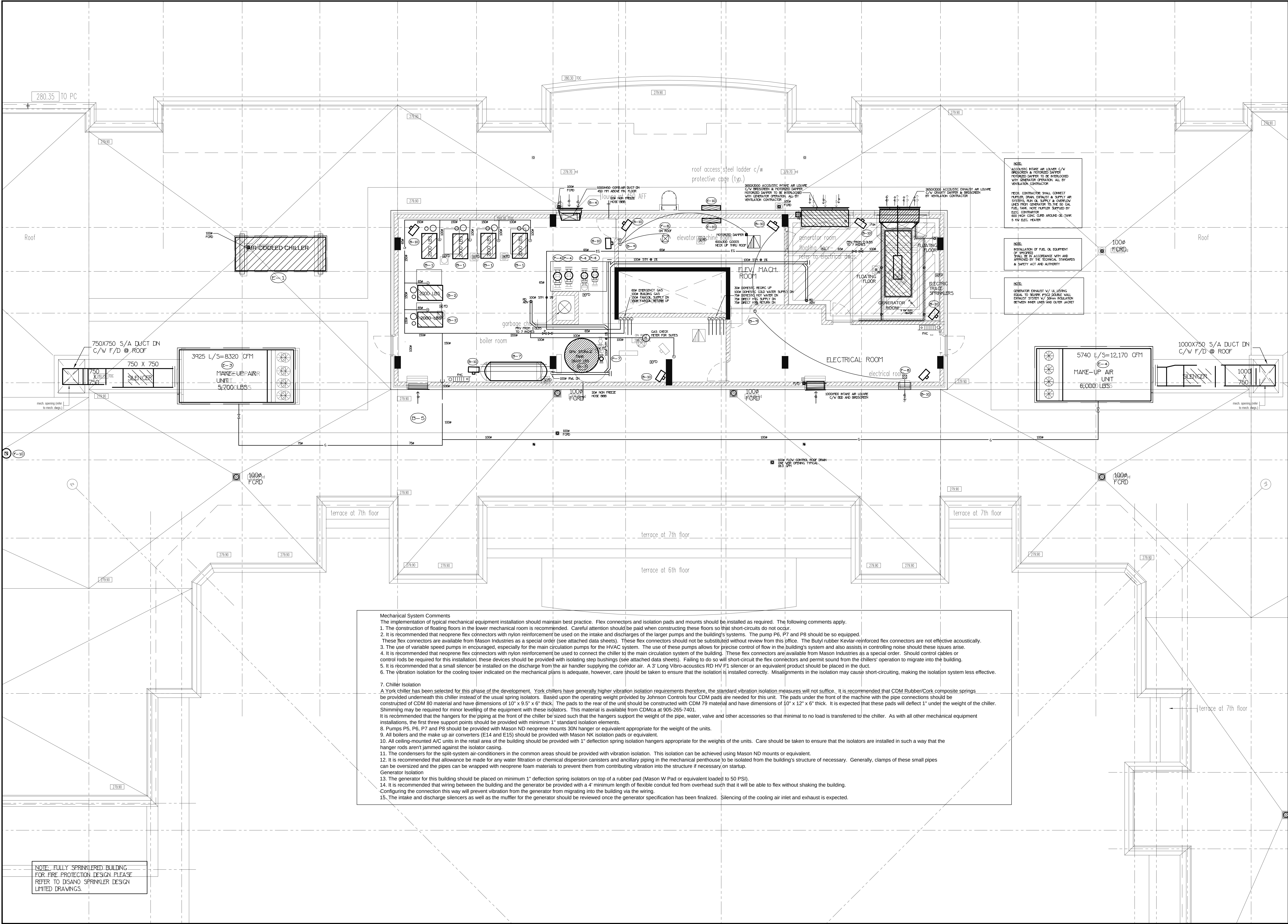
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PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE 1:50
DATE JUNE 2015	PROJECT 14-016	DRAWING M-33 OF 42



Mechanical System Comments
The implementation of typical mechanical equipment installation should maintain best practice. Flex connectors and isolation pads and mounts should be installed as required. The following comments apply.

1. The construction of floating floors in the lower mechanical room is recommended. Careful attention should be paid when constructing these floors so that short-circuits do not occur.
2. It is recommended that neoprene flex connectors with nylon reinforcement be used on the intake and discharges of the larger pumps and the building's systems. The pump P6, P7 and P8 should be so equipped. These flex connectors are available from Mason Industries as a special order (see attached data sheets). These flex connectors should not be substituted without review from this office. The Butyl rubber Kevlar-reinforced flex connectors are not effective acoustically.
3. The use of variable speed pumps is encouraged, especially for the main circulation pumps for the HVAC system. The use of these pumps allows for precise control of flow in the building's system and also assists in controlling noise should these issues arise.
4. It is recommended that neoprene flex connectors with nylon reinforcement be used to connect the chiller to the main circulation system of the building. These flex connectors are available from Mason Industries as a special order. Should control cables or control rods be required for this installation, these devices should be provided with isolating step bushings (see attached data sheets). Failing to do so will short-circuit the flex connectors and permit sound from the chillers' operation to migrate into the building.
5. It is recommended that a small silencer be installed on the discharge from the air handler supplying the corridor air. A 3' Long Vibro-acoustics RD HV F1 silencer or an equivalent product should be placed in the duct.
6. The vibration isolation for the cooling tower indicated on the mechanical plans is adequate, however, care should be taken to ensure that the isolation is installed correctly. Misalignments in the isolation may cause short-circuiting, making the isolation system less effective.

7. Chiller Isolation
A York chiller has been selected for this phase of the development. York chillers have generally higher vibration isolation requirements therefore, the standard vibration isolation measures will not suffice. It is recommended that CDM Rubber/Cork composite springs be provided underneath this chiller instead of the usual spring isolators. Based upon the operating weight provided by Johnson Controls four CDM pads are needed for this unit. The pads under the front of the machine with the pipe connections should be constructed of CDM 80 material and have dimensions of 10" x 9.5" x 6" thick. The pads to the rear of the unit should be constructed with CDM 79 material and have dimensions of 10" x 12" x 6" thick. It is expected that these pads will deflect 1" under the weight of the chiller. Shimming may be required for minor leveling of the equipment with these isolators. This material is available from CDMca at 905-265-7401. It is recommended that the hangers for the piping at the front of the chiller be sized such that the hangers support the weight of the pipe, water, valve and other accessories so that minimal to no load is transferred to the chiller. As with all other mechanical equipment installations, the first three support points should be provided with minimum 1" standard isolation elements.

8. Pumps P5, P6, P7 and P8 should be provided with Mason ND neoprene mounts 30N hanger or equivalent appropriate for the weight of the units.
9. All boilers and the make up air converters (E14 and E15) should be provided with Mason NK isolation pads or equivalent.
10. All ceiling-mounted A/C units in the retail area of the building should be provided with 1" deflection spring isolation hangers appropriate for the weights of the units. Care should be taken to ensure that the isolators are installed in such a way that the hanger rods aren't jammed against the isolator casing.
11. The condensers for the split-system air-conditioners in the common areas should be provided with vibration isolation. This isolation can be achieved using Mason ND mounts or equivalent.
12. It is recommended that allowance be made for any water filtration or chemical dispersion canisters and ancillary piping in the mechanical penthouse to be isolated from the building's structure of necessary. Generally, clamps of these small pipes can be oversized and the pipes can be wrapped with neoprene foam materials to prevent them from contributing vibration into the structure if necessary on startup.
13. Generator Isolation
The generator for this building should be placed on minimum 1" deflection spring isolators on top of a rubber pad (Mason W Pad or equivalent loaded to 50 PSI).
14. It is recommended that wiring between the building and the generator be provided with a 4' minimum length of flexible conduit fed from overhead such that it will be able to flex without shaking the building. Configuring the connection this way will prevent vibration from the generator from migrating into the building via the wiring.
15. The intake and discharge silencers as well as the muffler for the generator should be reviewed once the generator specification has been finalized. Silencing of the cooling air inlet and exhaust is expected.

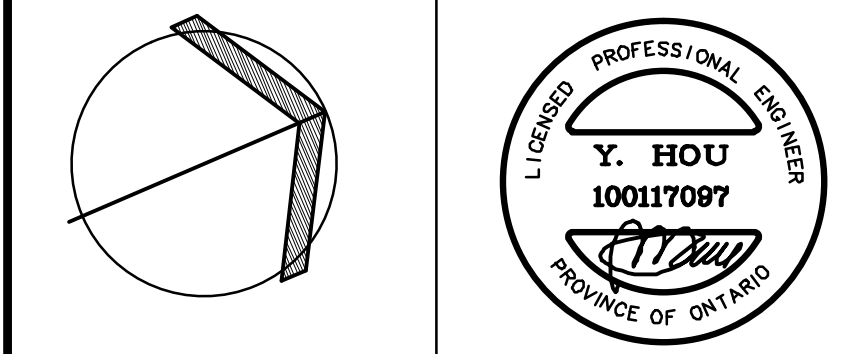
NO.	BY	DESCRIPTION	DATE
1	BT	ISSUED FOR TENDER	MAR/21/2016
2	OP	REVISED AS PER SITE INSTRUCTION P-2	AUG/18/2016
3	LH	ISSUED FOR PERMIT	DEC/28/2016
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5	LB	REVISED AS PER SITE INSTRUCTION P-5	AUG/04/2017
ISSUED FOR CONSTRUCTION			

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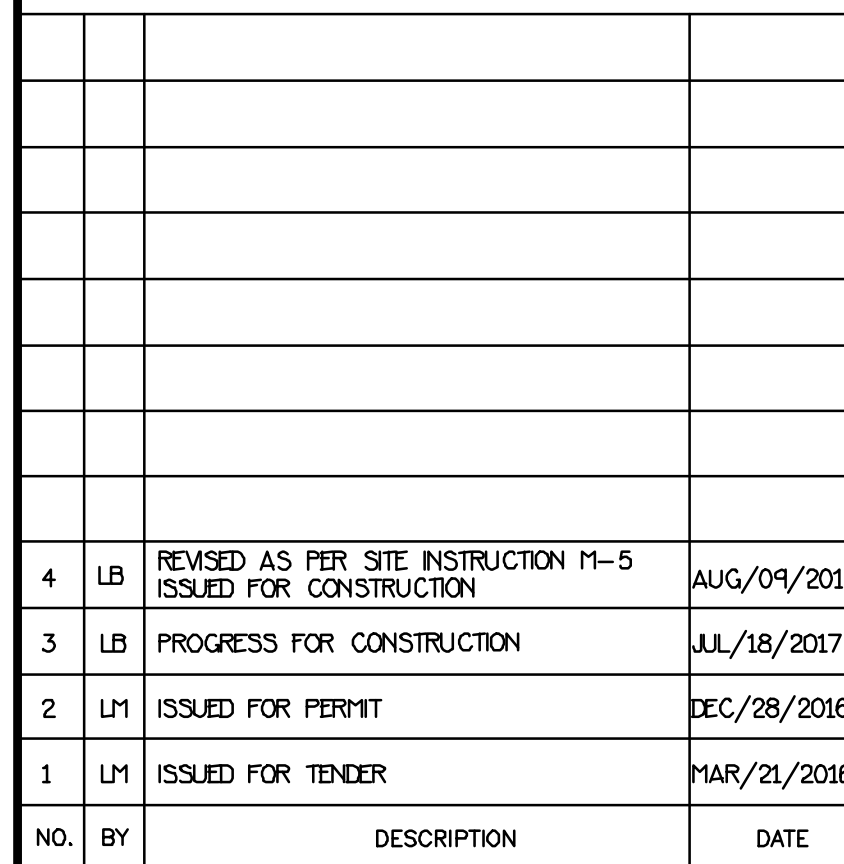
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TITLE		
PENTHOUSE FLOOR PLAN MECHANICAL		
PROJECT		
25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO		
PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN	CHECKED	SCALE
GC	BT	1:50
DATE	PROJECT	DRAWING
JUNE 2015	14-016	M-34
		OF 42



TITLE
**ROOF PLAN
MECHANICAL**

STOUFFVILLE, ONTARIO
PROPOSED RESIDENTIAL DEVELOPMENT

DRAWN GC	CHECKED BT	SCALE 1:100
DATE JUNE 2015	PROJECT 14-016	DRAWING M-35
		OF 42

1. SPRINKLER SYSTEMS HAVE BEEN DESIGNED AND MUST BE INSTALLED IN ACCORDANCE WITH N.F.P.A. REGULATION #13 ORDINARY HAZARD

1. SPRINKLER SYSTEMS HAVE BEEN DESIGNED AND MUST BE INSTALLED IN ACCORDANCE WITH N.F.P.A. REGULATION #13 ORDINARY HAZARD
2. SPRINKLER SYSTEMS TO BE GRADED TO ALLOW DRAINAGE IN ACCORDANCE WITH N.F.P.A. #13.3
3. ALL FIRE LINES , WET SPRINKLER SYSTEMS , DOMESTIC COLD WATER PIPING AND DRUM DIPS SHALL BE CHANGED TO ELECT. TRACED AND INSULATED WITH BACK REFLECTED DRAINAGE
4. MINIMUM HEAD RANGE OF 200000 TO BE MAINTAINED THROUGHOUT CHARGE
5. ALL VALVES FOR SPRINKLERS ON STANDPISPS SHALL BE 0.5 & Y TYPE & ELECTRICALLY SUPERVISED, COMPLETE VALVES & CONTROLS BY PLUMBING CONTRACTOR, O.B.C. 3.2.9.6.(11 TO 13).
6. SWAEME CONNECTIONS TO BE INSTALLED AS PER O.B.C. 3.2.9.5.(1 TO 7)
7. STANDPIPE SYSTEM TO BE INSTALLED AS PER O.B.C. 3.2.9.3.(1 TO 9)
8. PLUMBING CONTRACTOR TO CO-ORDINATE ALL LOCATIONS OF DRUM DIPS WITH ELECTRICAL CONTRACTOR BEFORE SPRINKLER INSTALLATION
9. PROVIDE TEST CONNECTIONS FOR ALL SPRINKLER SYSTEMS AS PER N.F.P.A. #13
10. CONTRACTOR TO PROVIDE DEFLECTORS ON ALL DRY, ROOMS SPRINKLERS.
11. WIRE PRESSURE SWITCH FROM EACH SPRINKLER ZONE TO ANNUNCIATOR PANEL.
12. MECHANICAL CONTRACTOR SHALL HAVE THE SPRINKLER LAYOUT HYDRAULICALLY DESIGNED, WORKING DRAWINGS & CALCULATIONS SHOULD BE PRESENTED TO THE ENGINEER FOR REVIEW AND SUBMITTED TO THE CITY OF STOUTSVILLE FOR APPROVAL



NOTE: 3 INCH DRAIN RISER PROVIDED ADJACENT TO STANDPIPE RISER

NOTE: 3 INCH DRAIN RISER PROVIDED ADJACENT TO STANDPIPE RISER
DISCHARGE INTO STORM DRAINAGE SYSTEM NEARBY



MAKE-UP AIR RISERS

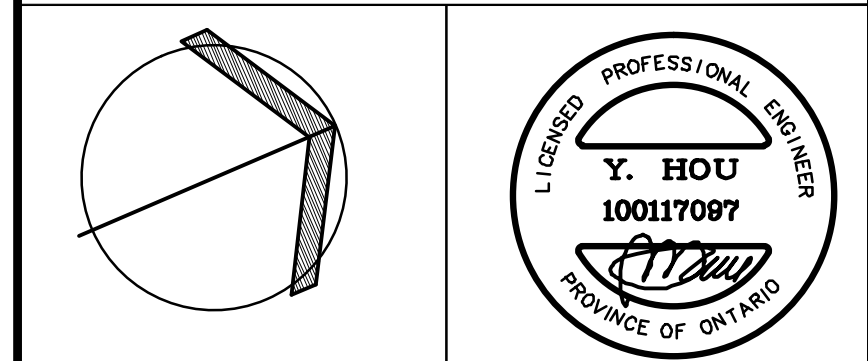


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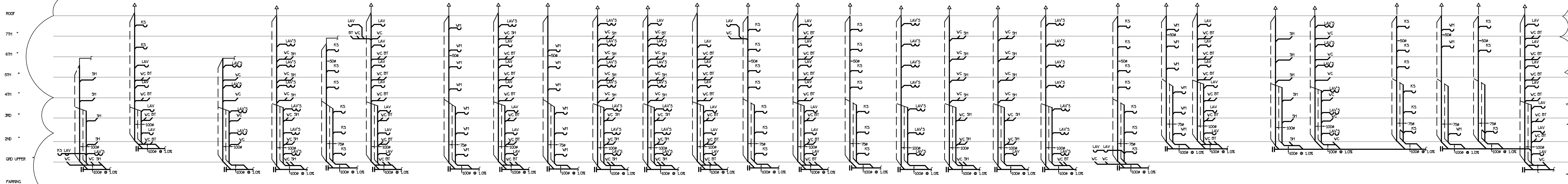
TITLE

**RISERS
MECHANICAL**

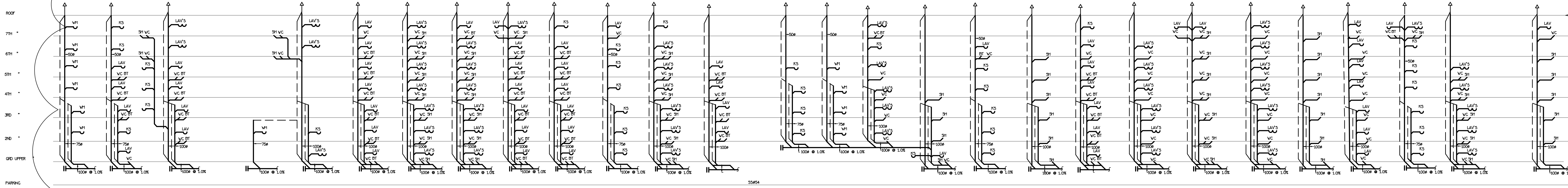
PROJECT
25 BAKER HILL BLVD.
ROYAL PINE HOMES

STOUFFVILLE, ONTARIO
PROPOSED RESIDENTIAL DEVELOPMENT

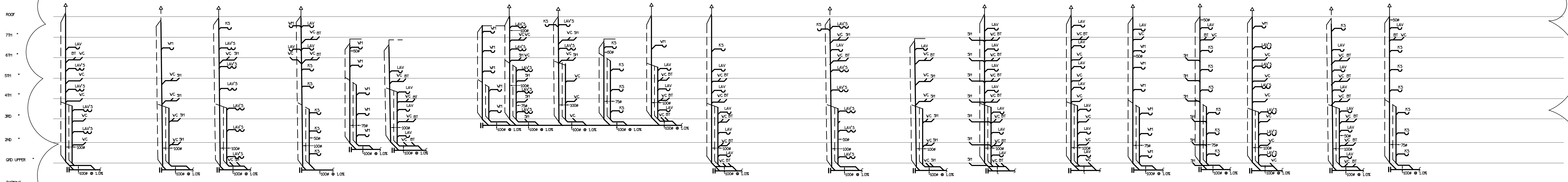
DRAWN GC	CHECKED BT	SCALE NTS
DATE JUNE 2015	PROJECT 14-016	DRAWING M-36 OF 42



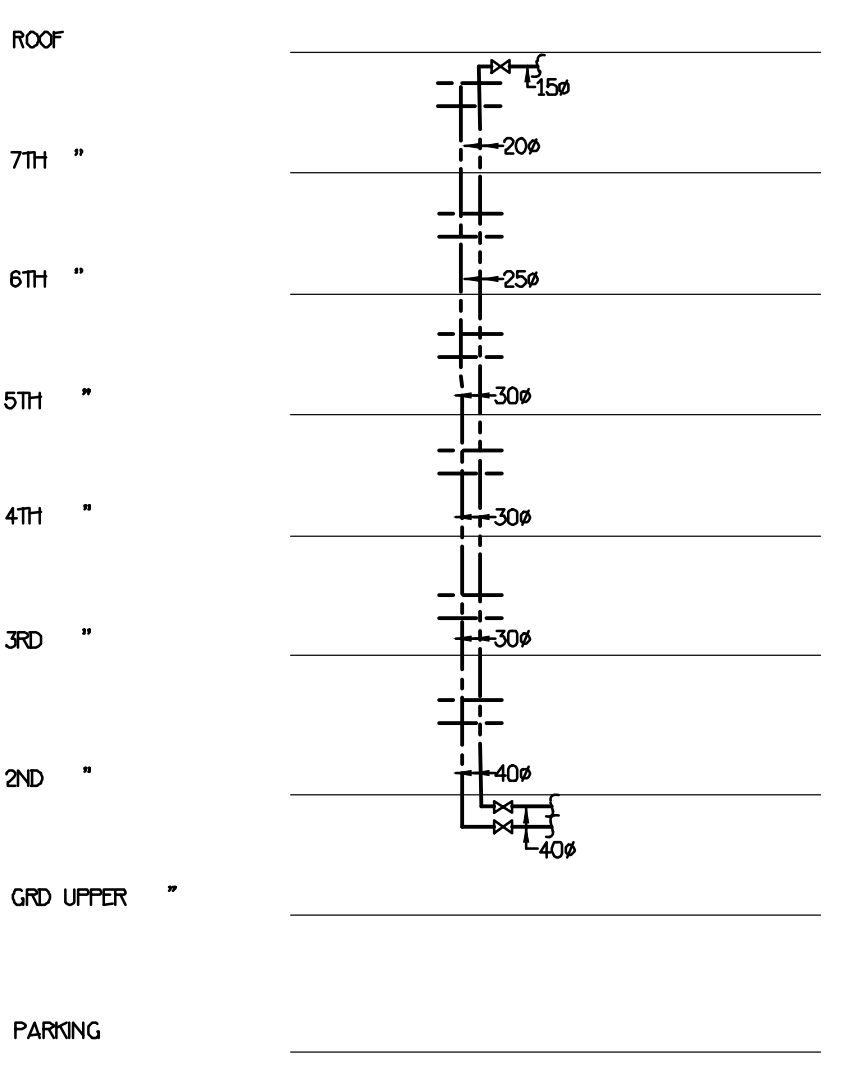
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TOTAL FIXTURE UNITS :	37.5 F.U.S.	27 F.U.S.	28 F.U.S.	36 F.U.S.	9 F.U.S.	48 F.U.S.	10.5 F.U.S.	42 F.U.S.	9 F.U.S.	50 F.U.S.	51 F.U.S.	42 F.U.S.	16.5 F.U.S.	42 F.U.S.	10.5 F.U.S.	10.5 F.U.S.	37.5 F.U.S.	16.5 F.U.S.	22.5 F.U.S.	9 F.U.S.	36 F.U.S.	9 F.U.S.	36 F.U.S.	9 F.U.S.	4.5 F.U.S.	4.5 F.U.S.	60 F.U.S.	
TOTAL	25 G.P.H.	31 G.P.H.	32 G.P.H.	36 G.P.H.	21 G.P.H.	41 G.P.H.	22 G.P.H.	39 G.P.H.	21 G.P.H.	42 G.P.H.	42 G.P.H.	39 G.P.H.	25 G.P.H.	39 G.P.H.	22 G.P.H.	22 G.P.H.	39 G.P.H.	37 G.P.H.	25 G.P.H.	29 G.P.H.	21 G.P.H.	36 G.P.H.	21 G.P.H.	36 G.P.H.	21 G.P.H.	21 G.P.H.	44 G.P.H.	



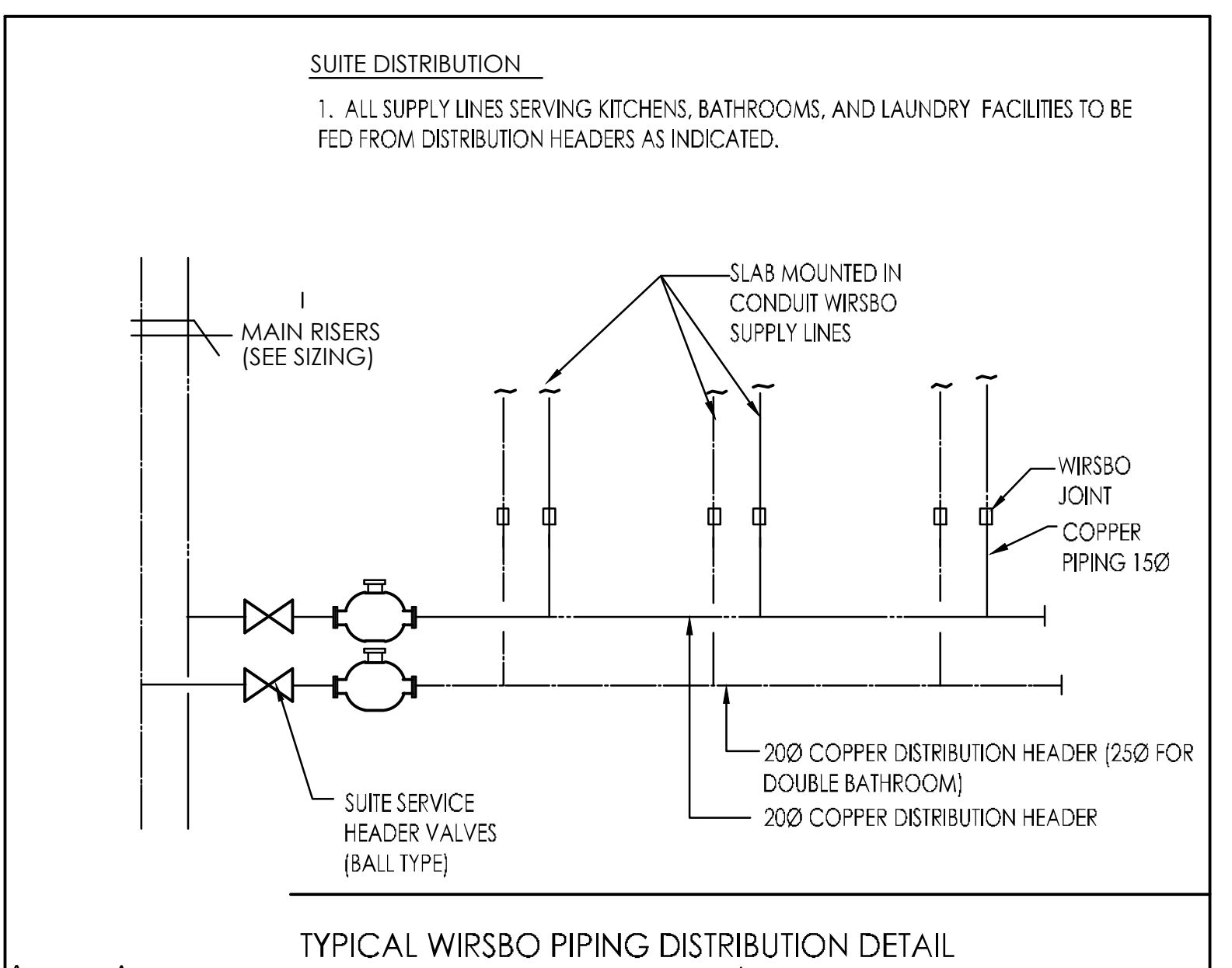
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TOTAL FIXTURE UNITS :	9 F.U.S.	10 F.U.S.	42 F.U.S.	6 F.U.S.	19.5 F.U.S.	42 F.U.S.	52.5 F.U.S.	31 F.U.S.	48 F.U.S.	37.5 F.U.S.	19 F.U.S.	46.5 F.U.S.	24 F.U.S.	6 F.U.S.	6 F.U.S.	31.5 F.U.S.	55.5 F.U.S.	13.5 F.U.S.	9 F.U.S.	37.5 F.U.S.	36 F.U.S.	42 F.U.S.	42 F.U.S.	10.5 F.U.S.	10.5 F.U.S.	21 F.U.S.	30 F.U.S.	13.5 F.U.S.
TOTAL	21 G.P.H.	24 G.P.H.	39 G.P.H.	21 G.P.H.	27 G.P.H.	39 G.P.H.	42 G.P.H.	42 G.P.H.	41 G.P.H.	37 G.P.H.	24 G.P.H.	40 G.P.H.	29 G.P.H.	21 G.P.H.	21 G.P.H.	34 G.P.H.	43 G.P.H.	23 G.P.H.	21 G.P.H.	36 G.P.H.	36 G.P.H.	39 G.P.H.	39 G.P.H.	21 G.P.H.	23 G.P.H.	28 G.P.H.	33 G.P.H.	23 G.P.H.



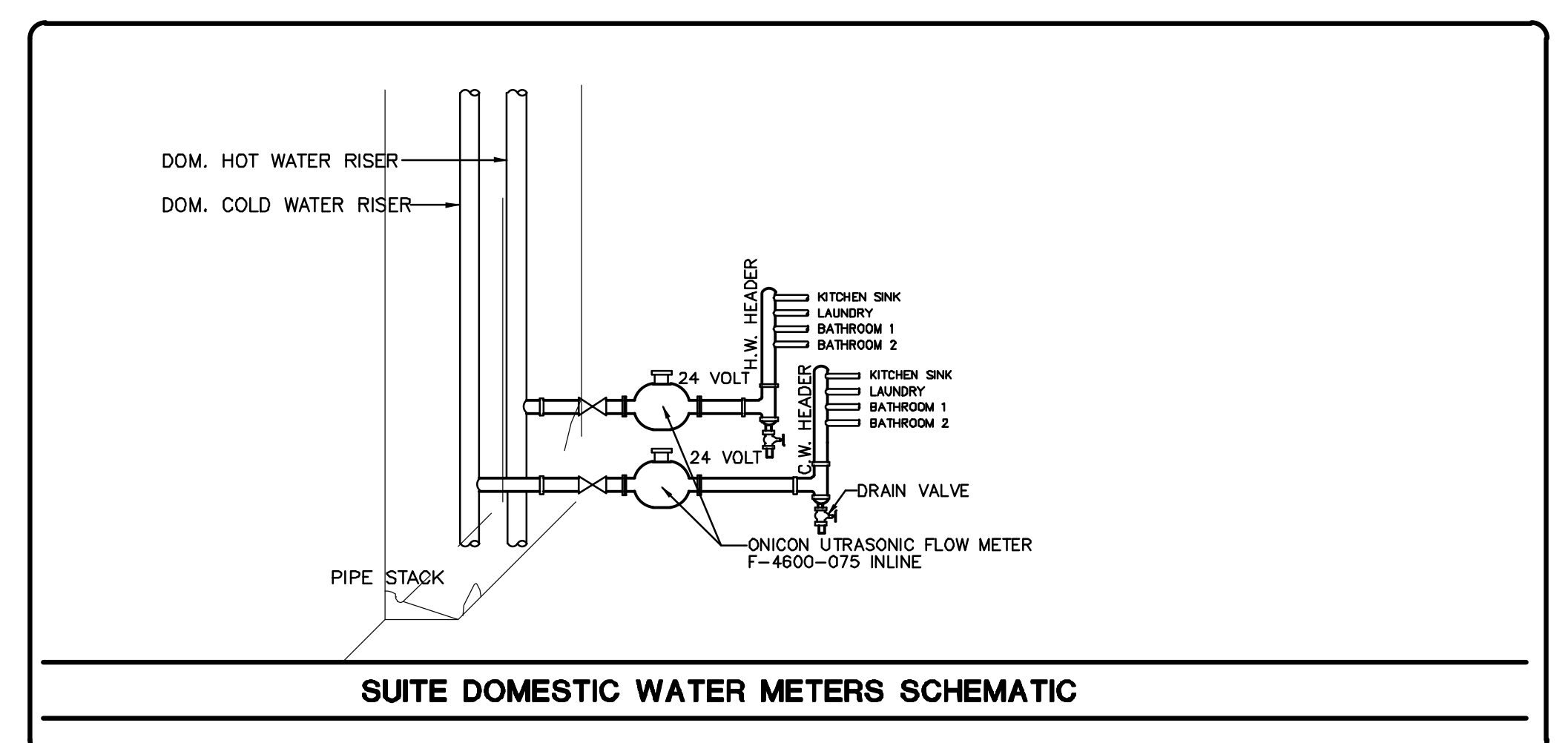
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TOTAL FIXTURE UNITS :	30 F.U.S.	25.5 F.U.S.	31.5 F.U.S.	10.5 F.U.S.	7.5 F.U.S.	24 F.U.S.	7.5 F.U.S.	36 F.U.S.	18 F.U.S.	4.5 F.U.S.	19.5 F.U.S.	31.5 F.U.S.	30 F.U.S.	10.5 F.U.S.	52.5 F.U.S.	42 F.U.S.	15 F.U.S.	24 F.U.S.	26 F.U.S.	37.5 F.U.S.	15 F.U.S.
TOTAL	33 G.P.H.	31 G.P.H.	33 G.P.H.	23 G.P.H.	21 G.P.H.	29 G.P.H.	21 G.P.H.	36 G.P.H.	25 G.P.H.	21 G.P.H.	27 G.P.H.	33 G.P.H.	33 G.P.H.	23 G.P.H.	42 G.P.H.	39 G.P.H.	24 G.P.H.	29 G.P.H.	31 G.P.H.	36 G.P.H.	24 G.P.H.



TYP DW, DHW RISER



TYPICAL WIRSBO PIPING DISTRIBUTION DETAIL



SUITE DOMESTIC WATER METERS SCHEMATIC

NO.	BY	DESCRIPTION	DATE
1	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/09/2017
2	LB	ISSUED FOR CONSTRUCTION	MAY/16/2017
3	LB	ISSUED AS PER SITE INSTRUCTION H-4	MAY/16/2017
4	LB	ISSUED FOR PERMIT	DEC/28/2016
5	LB	ISSUED FOR TENDER	MAR/21/2016

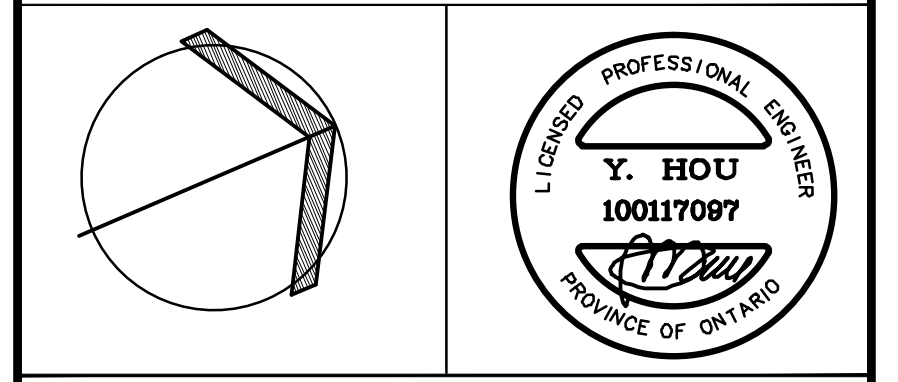
REVISIONS

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TITLE PLUMBING RISERS MECHANICAL		
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE NTS
DATE JUNE 2015	PROJECT 14-016	DRAWING M-37 OF 42



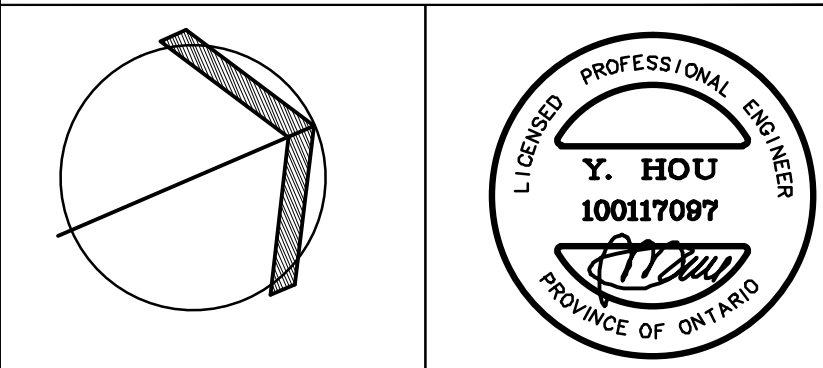
4	LB	REVISED AS PER SITE INSTRUCTION M-5 ISSUED FOR CONSTRUCTION	AUG/09/2016
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LM	ISSUED FOR PERMIT	DEC/28/2016
1	LM	ISSUED FOR TENDER	MAR/21/2016
NO.	BY	DESCRIPTION	DATE

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FAN COIL RISERS MECHANICAL

PROJECT
25 BAKER HILL BLVD.
ROYAL PINE HOMES

STOUFFVILLE, ONTARIO
PROPOSED RESIDENTIAL DEVELOPMENT

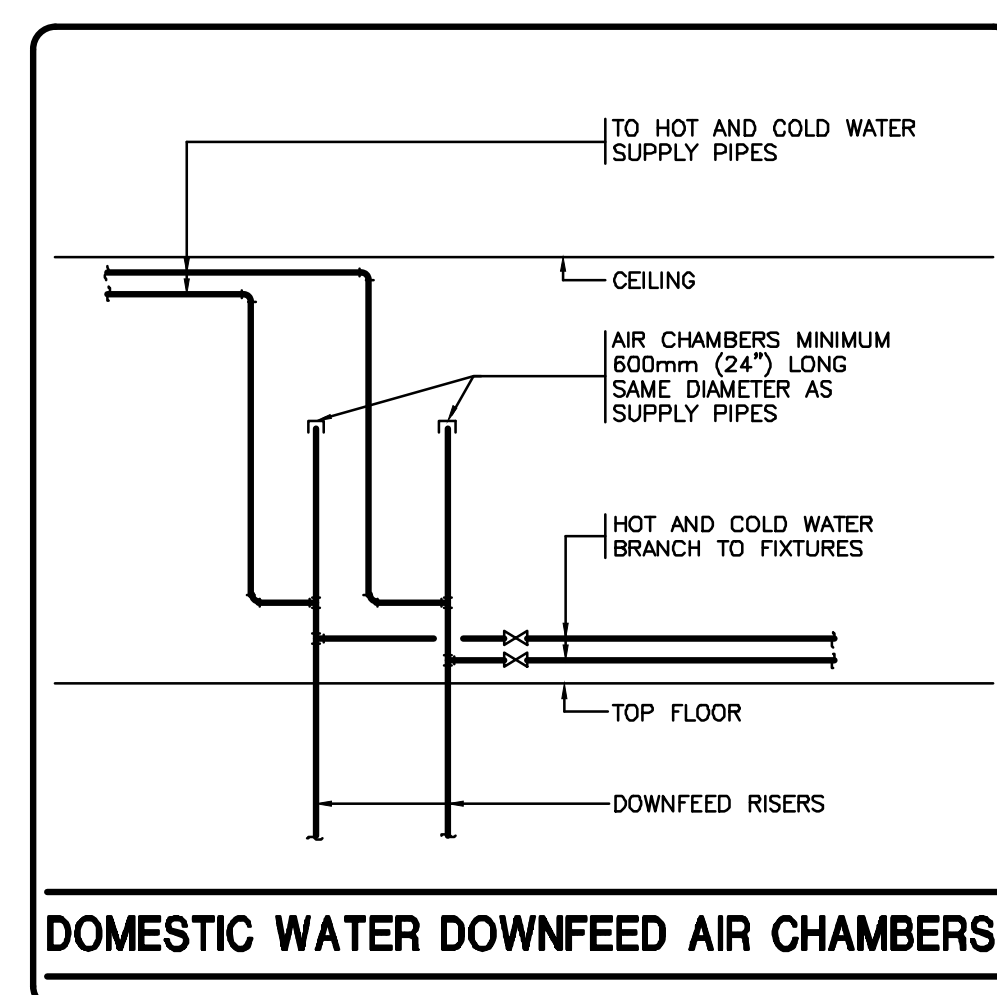
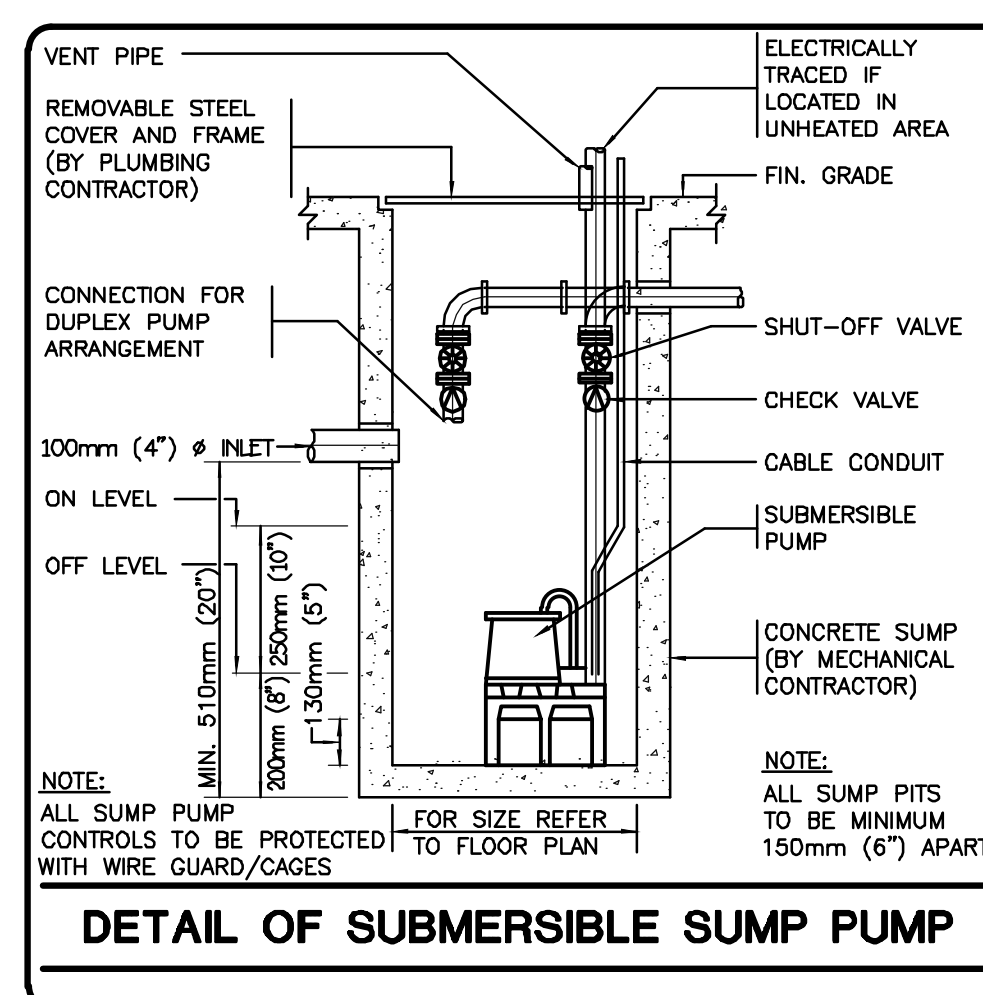
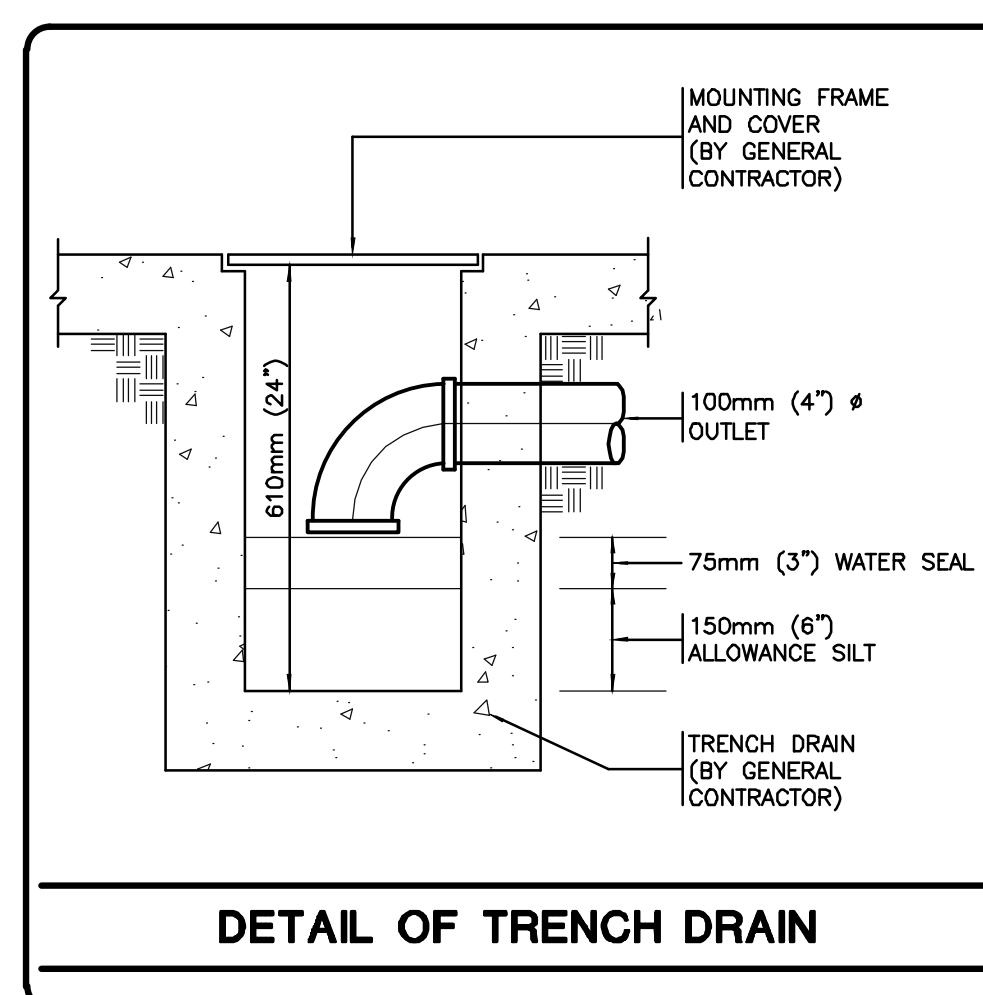
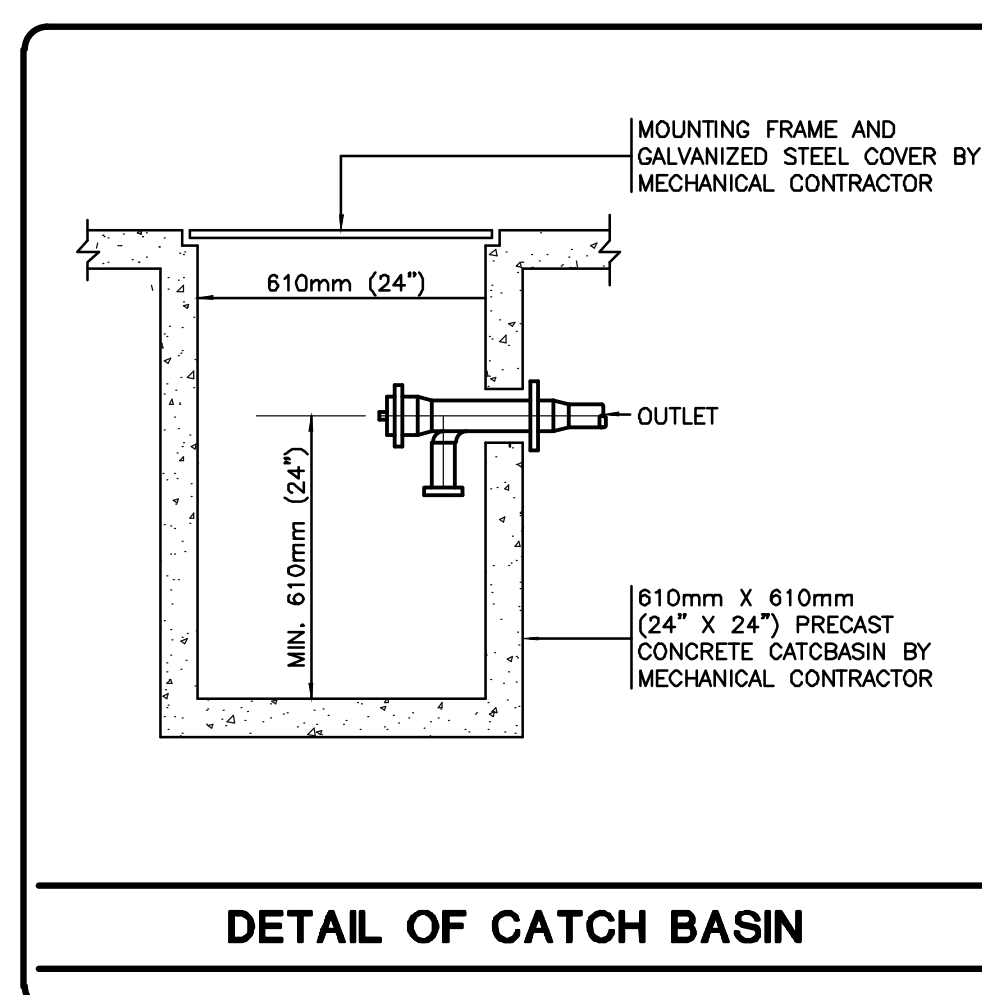
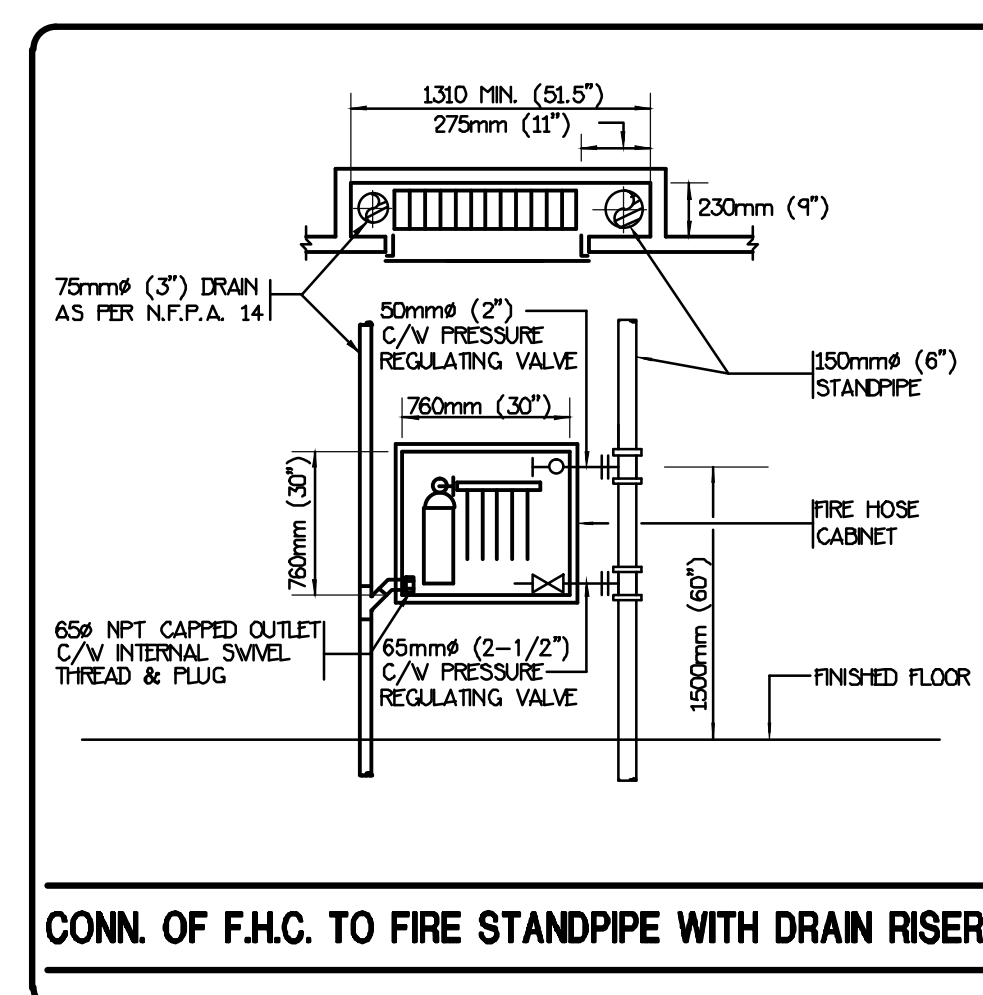
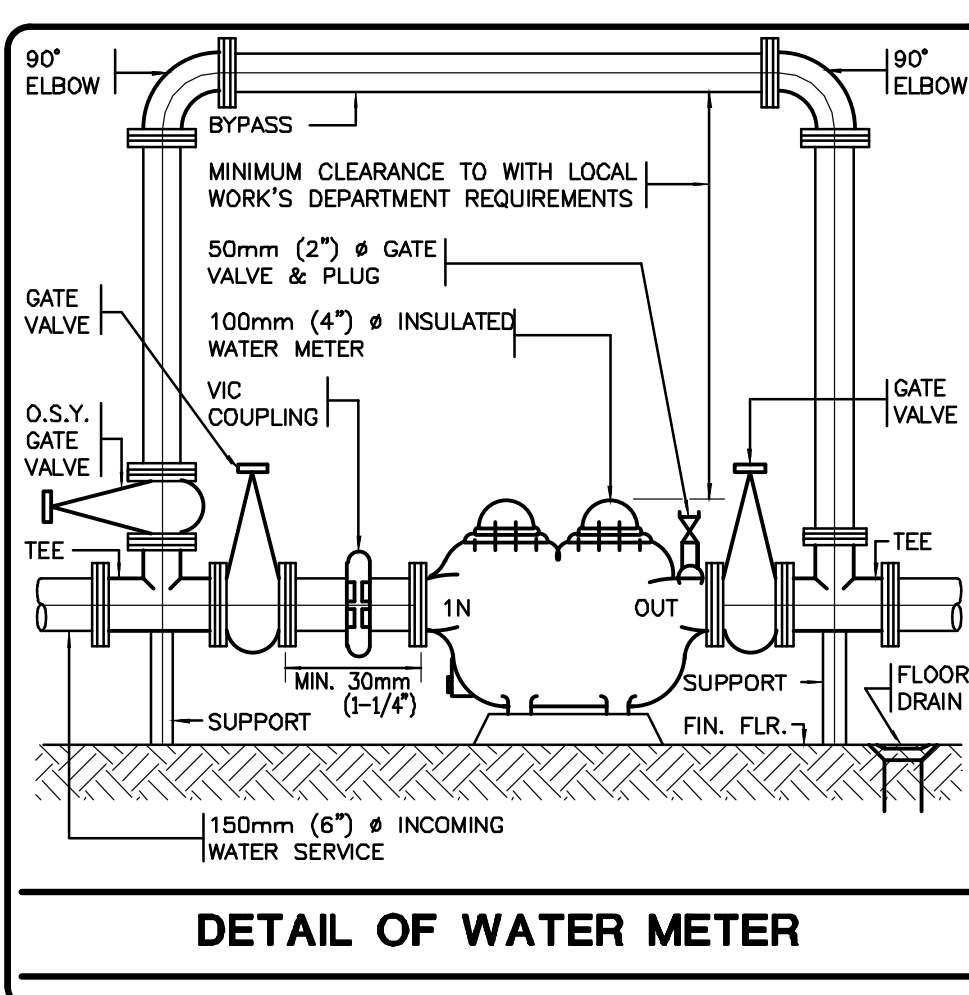
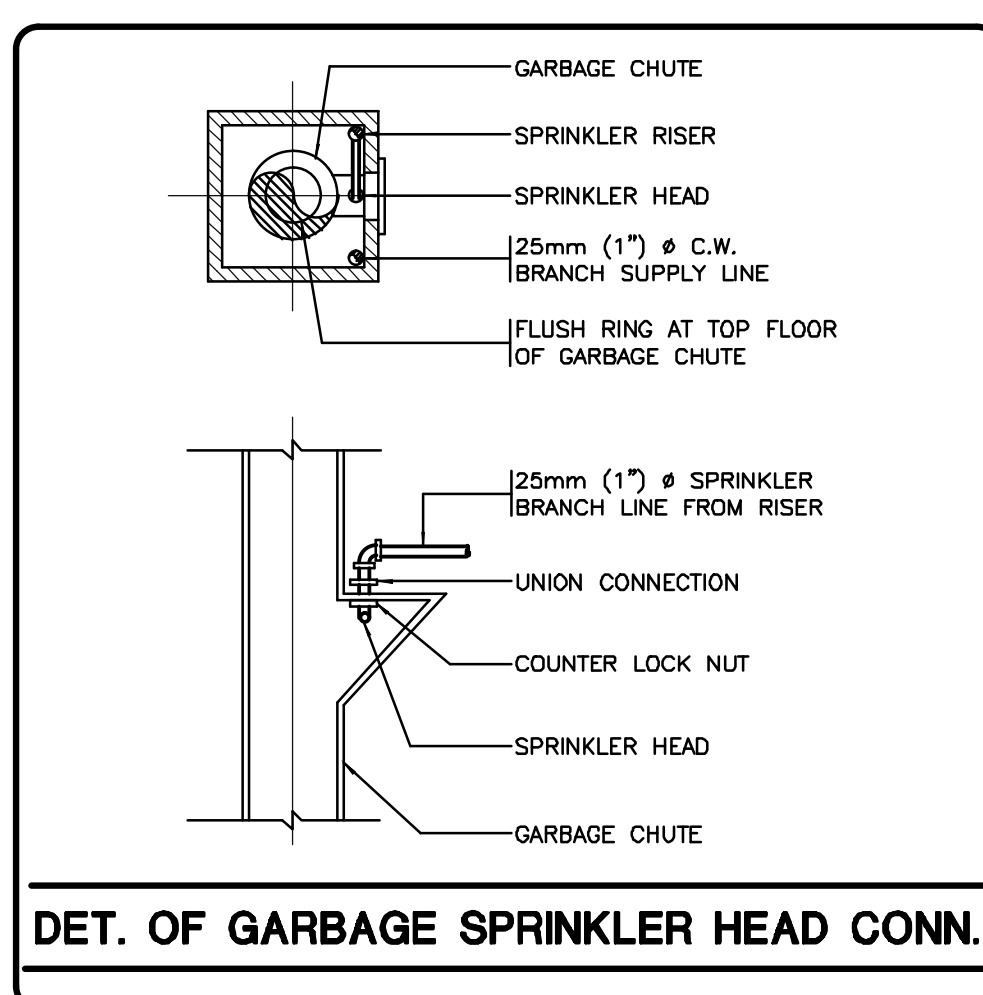
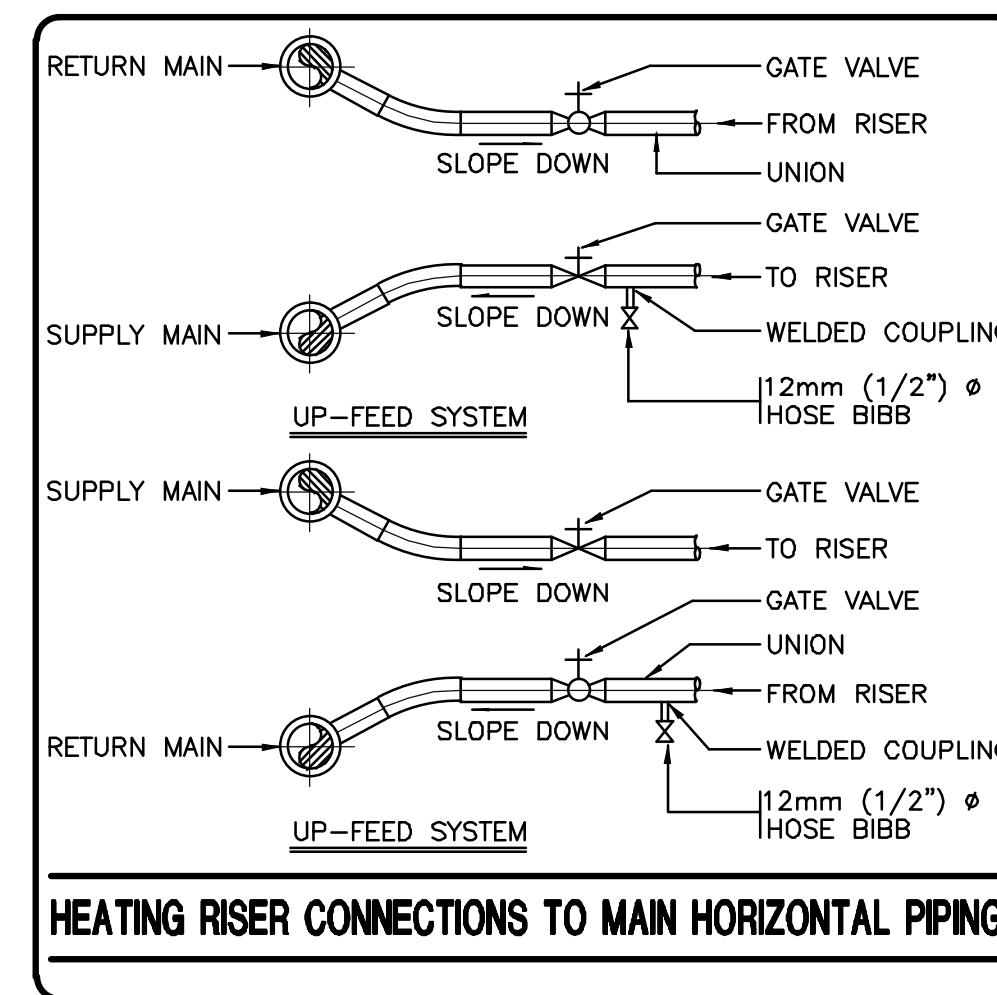
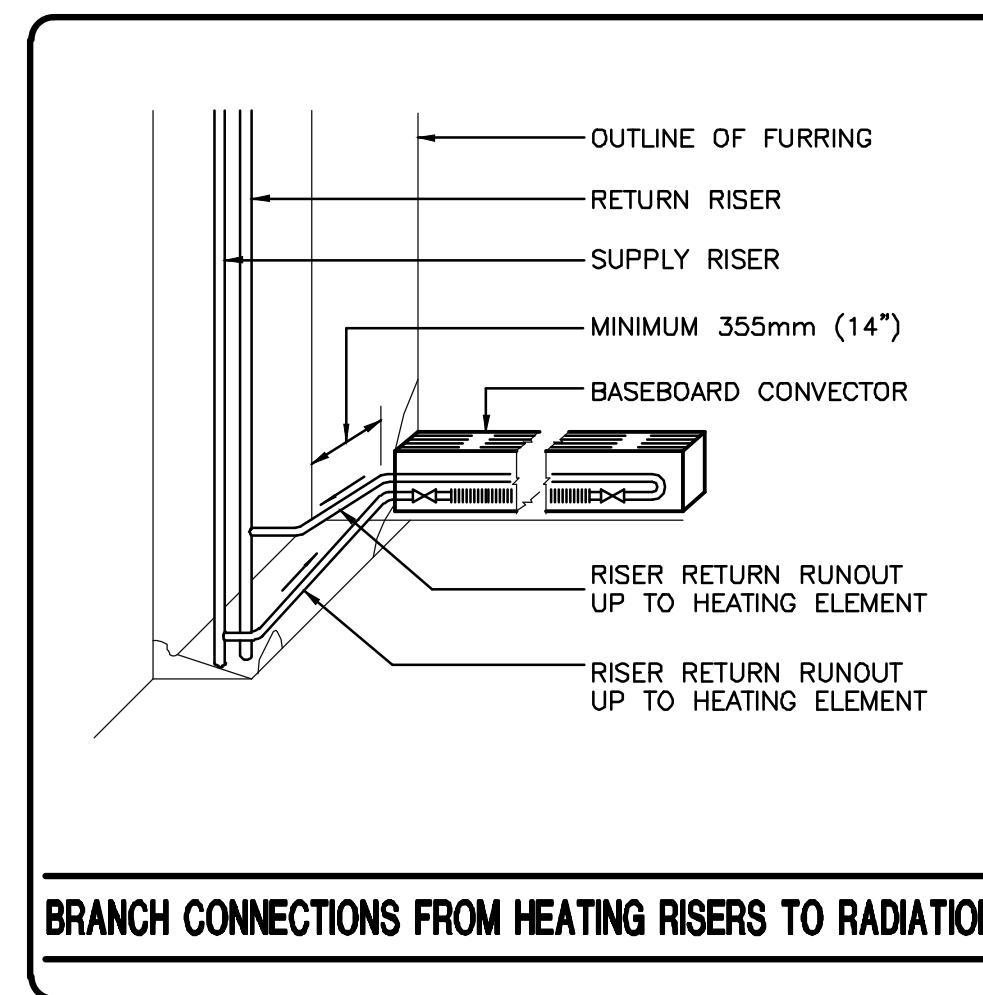
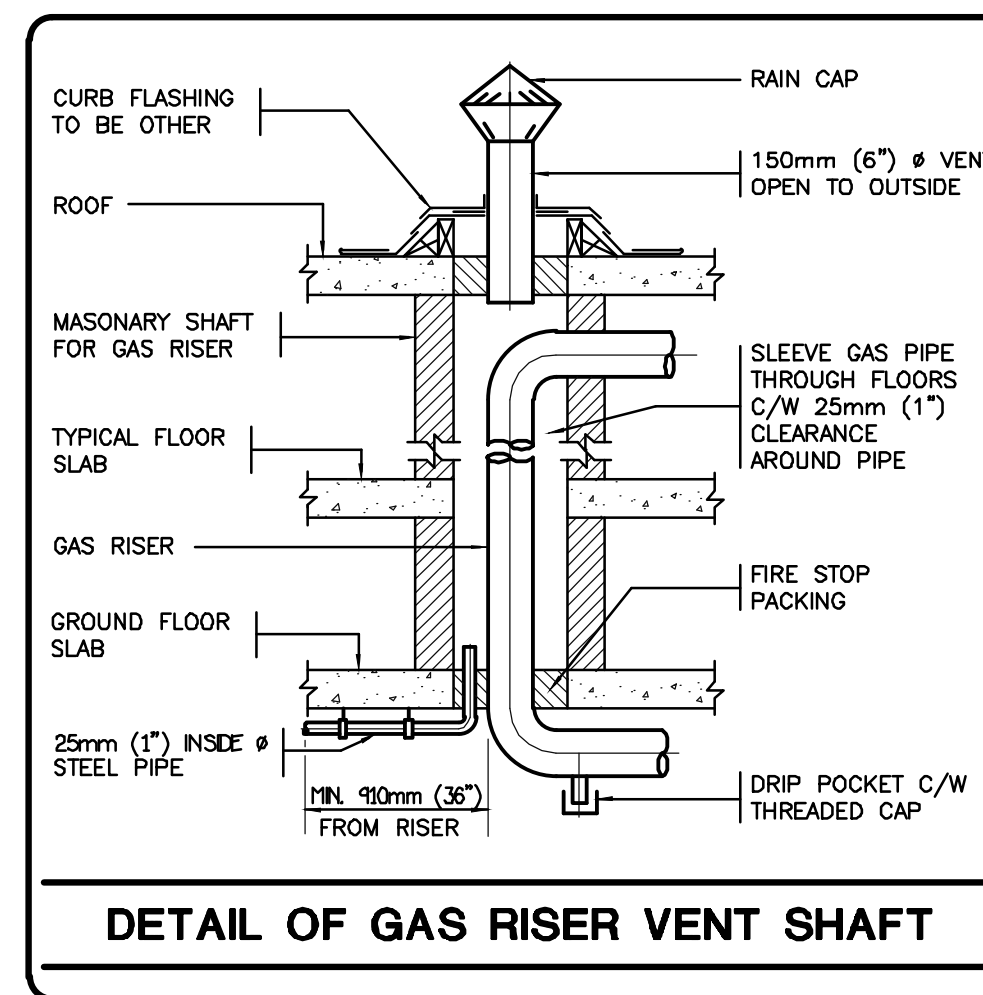
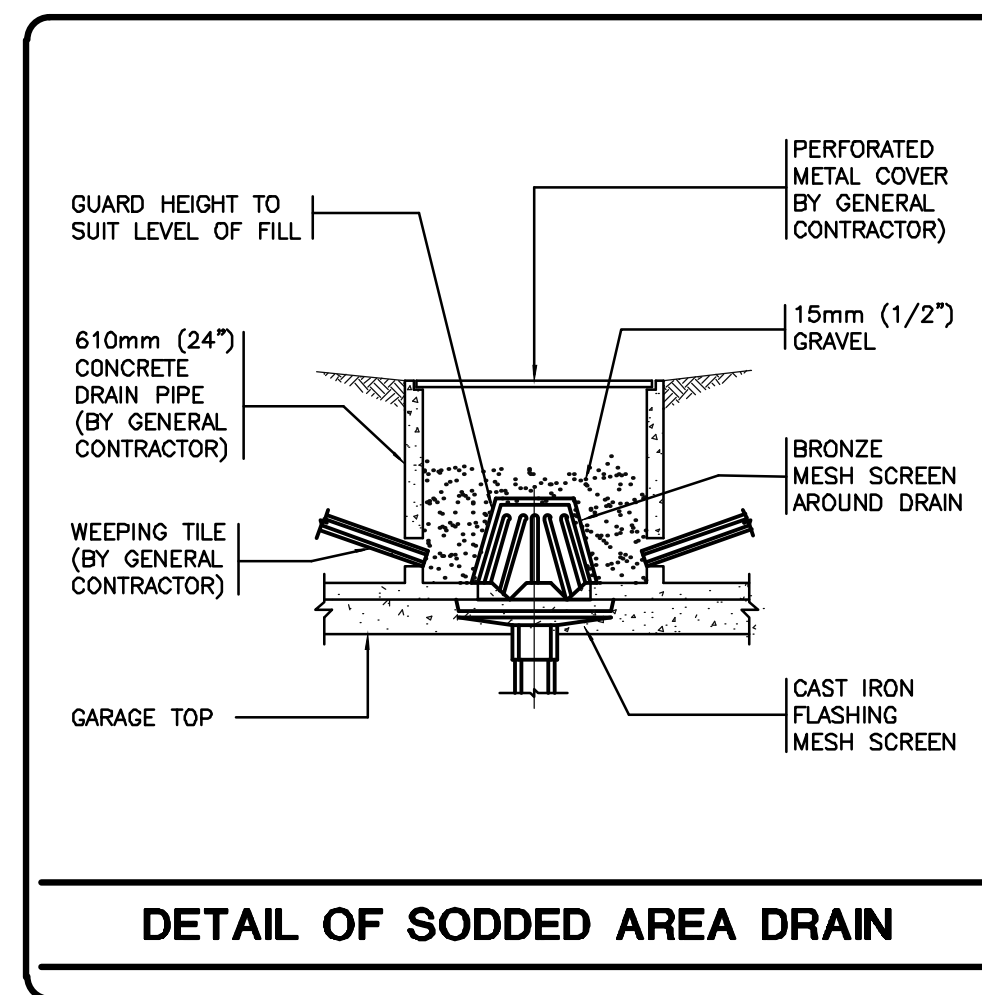
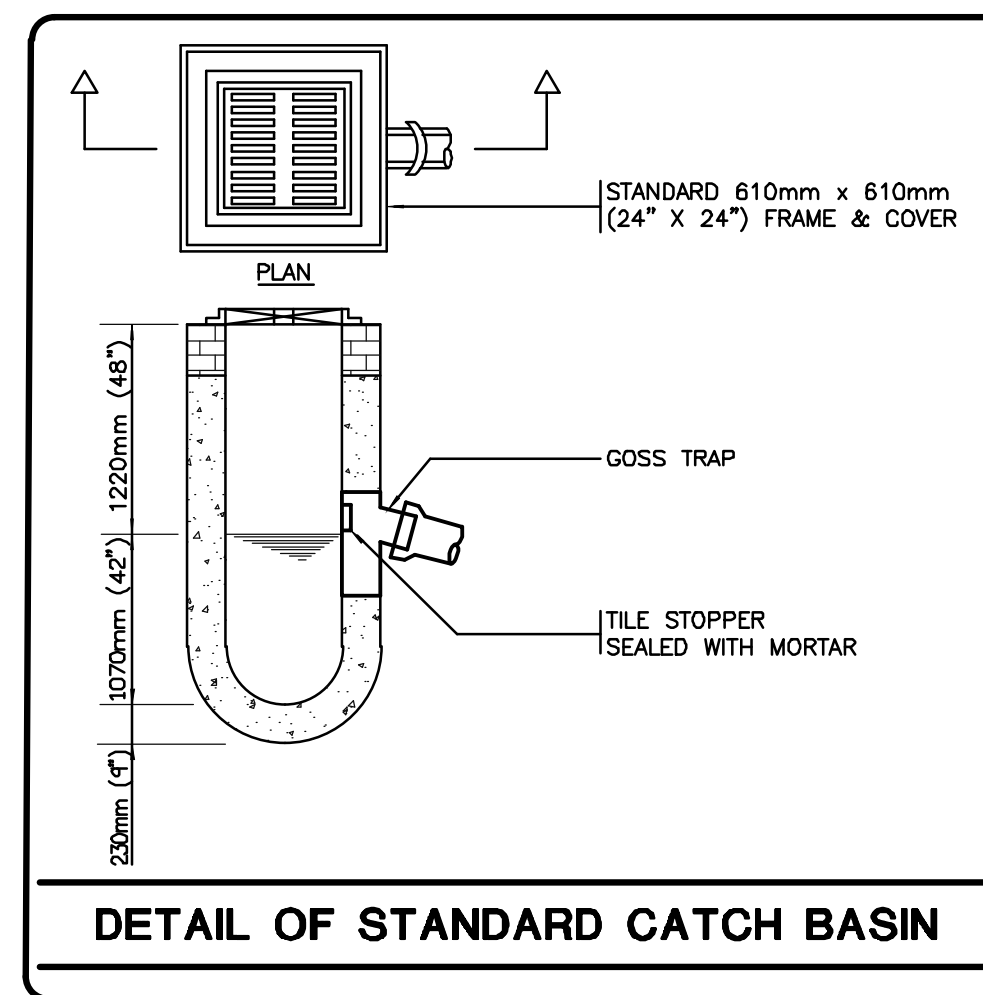
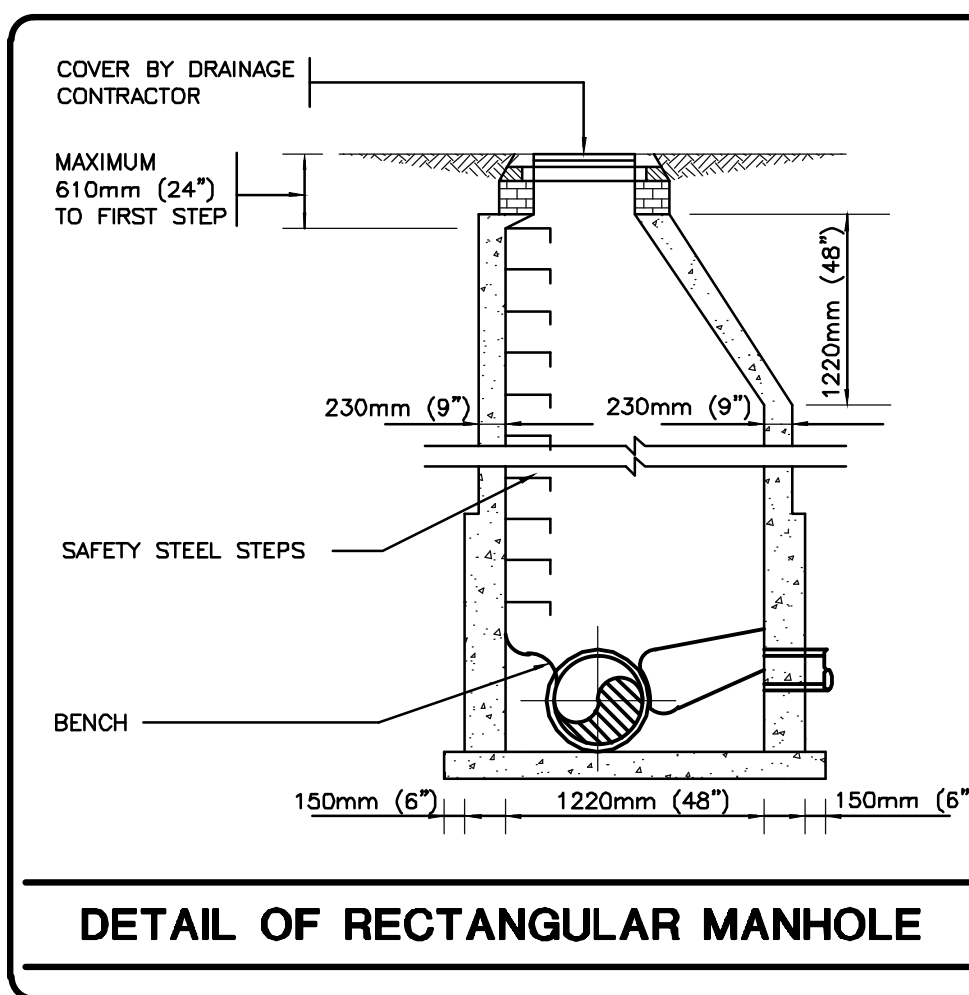
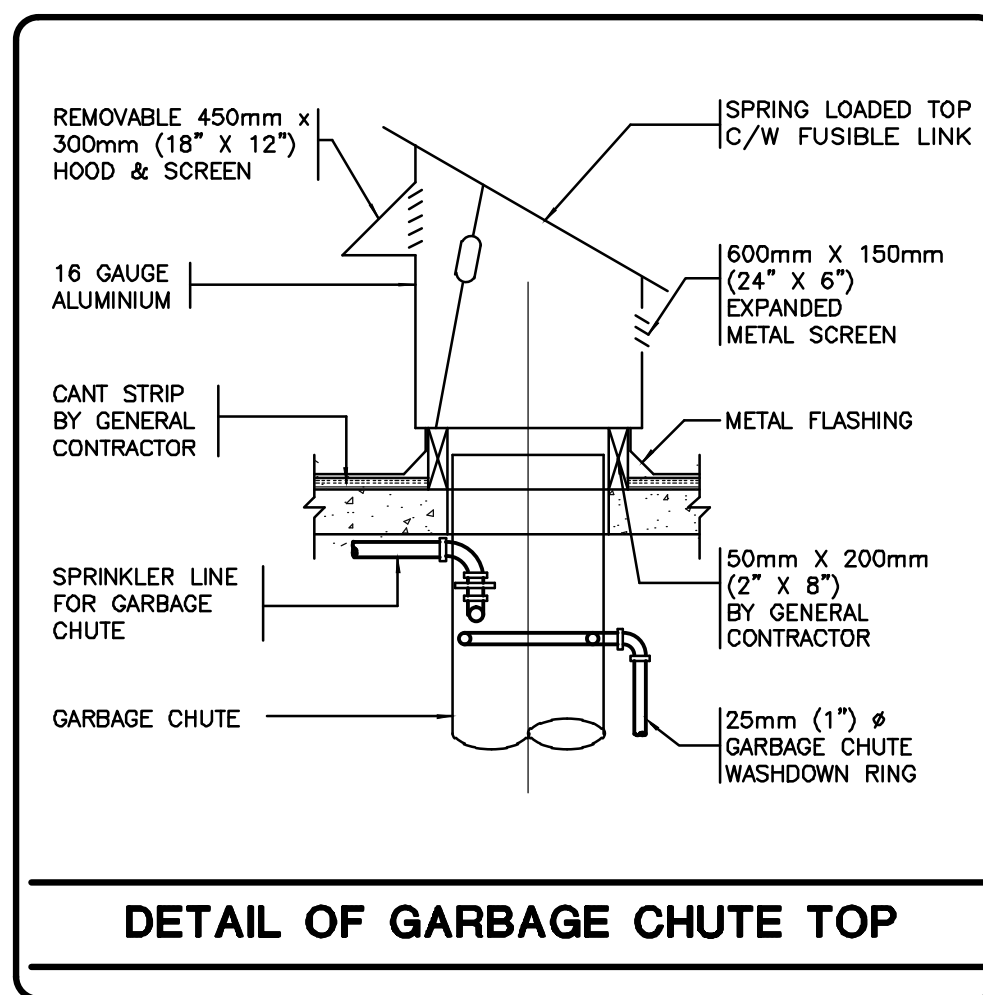
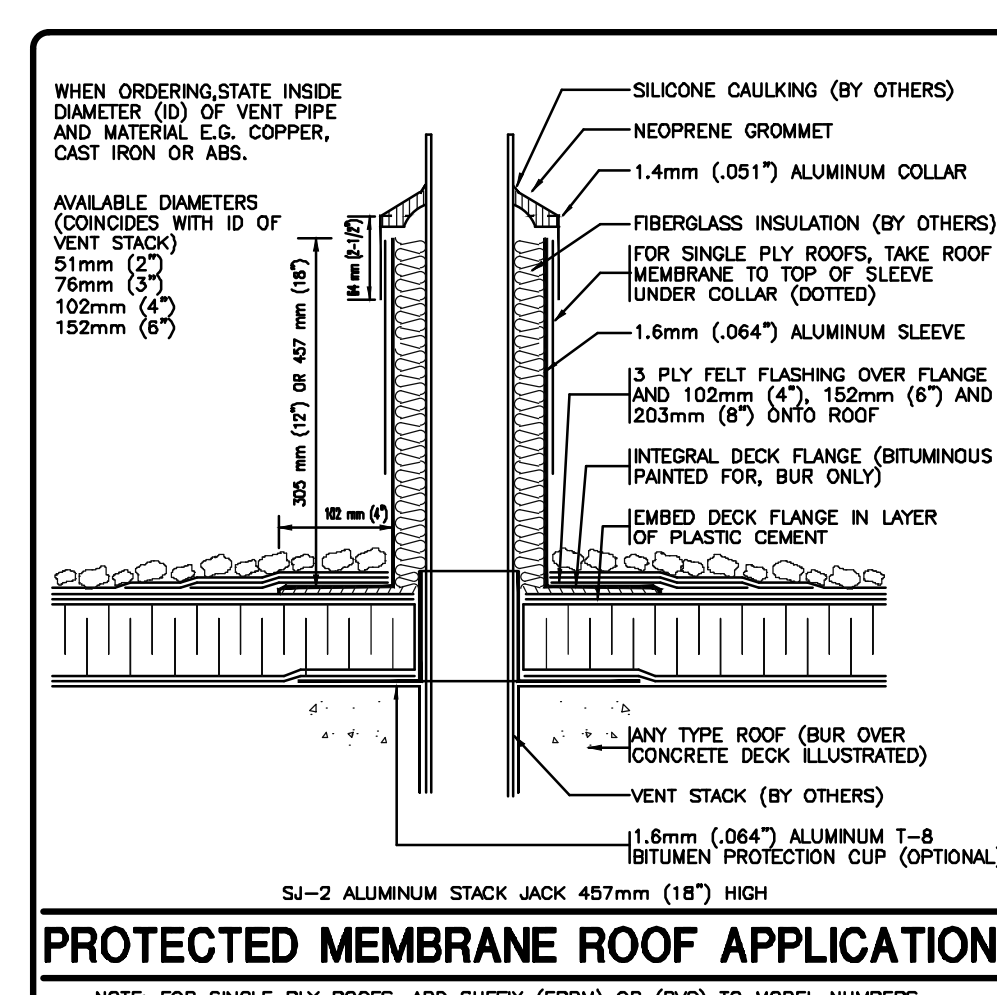
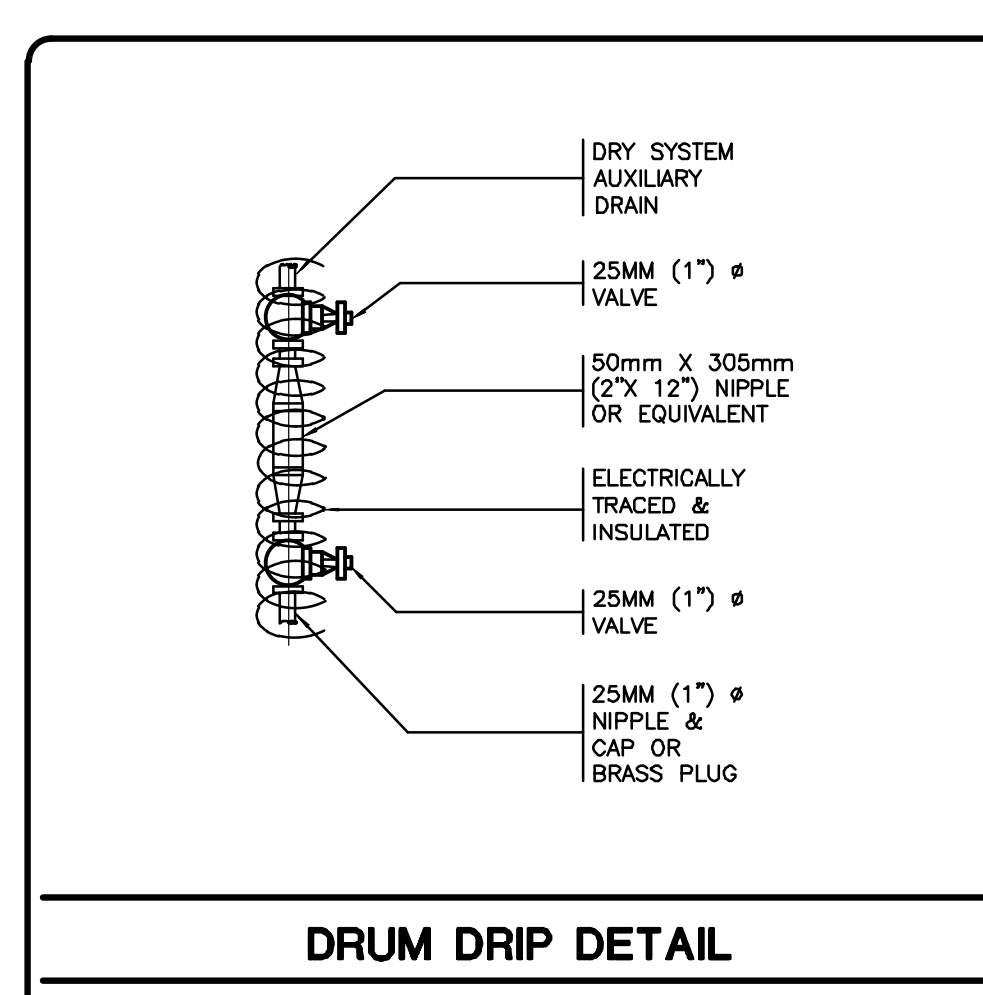
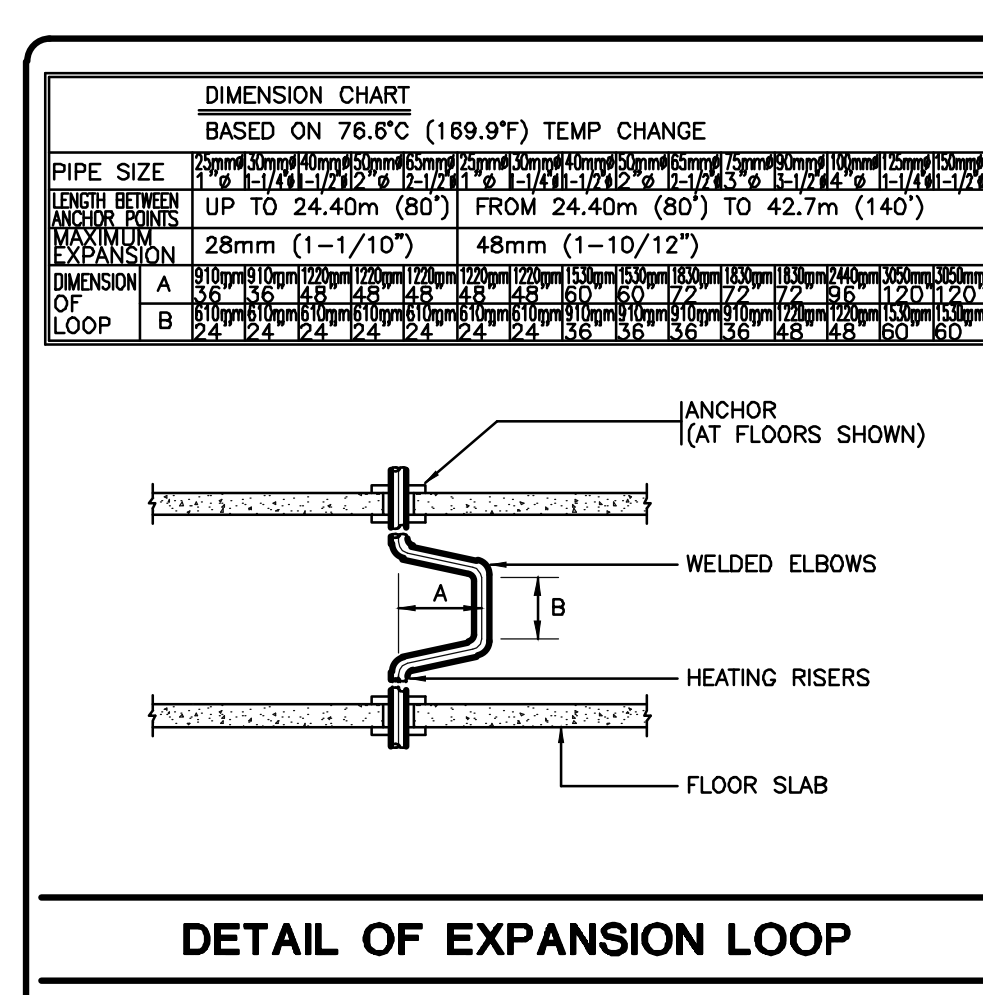
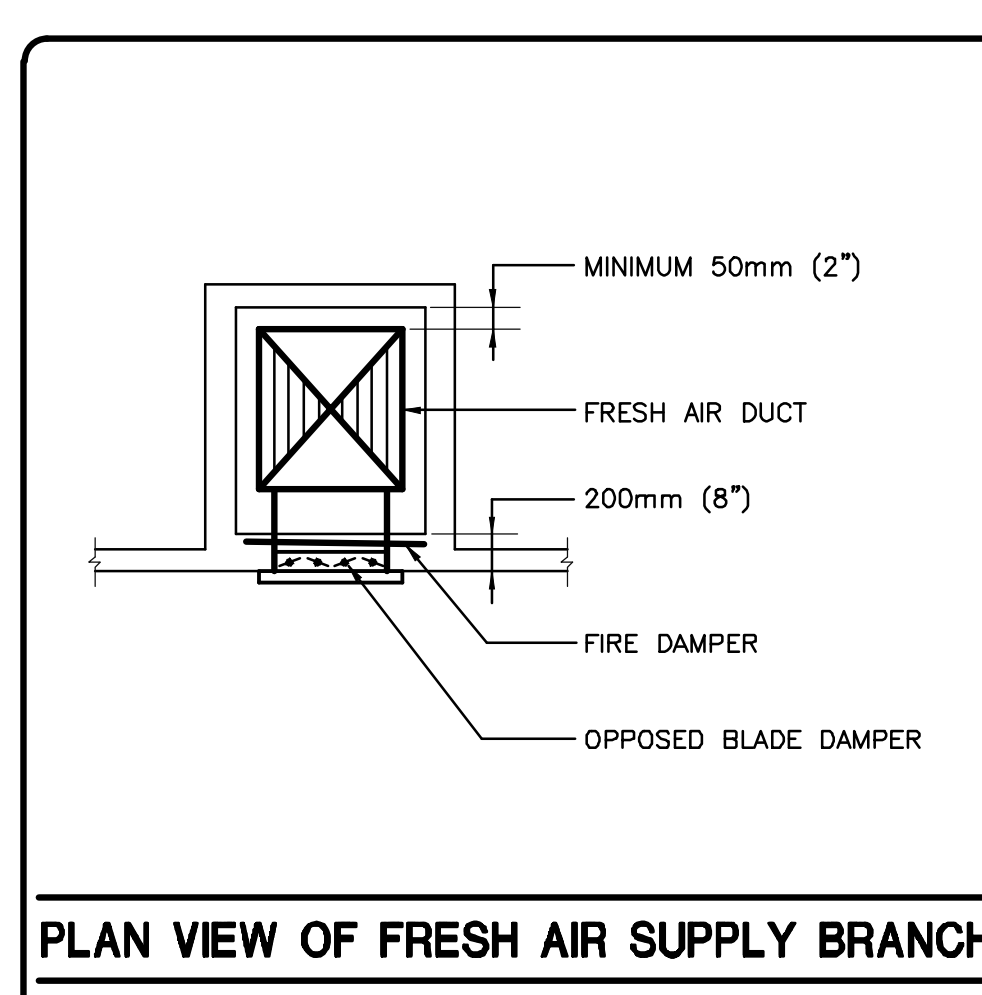
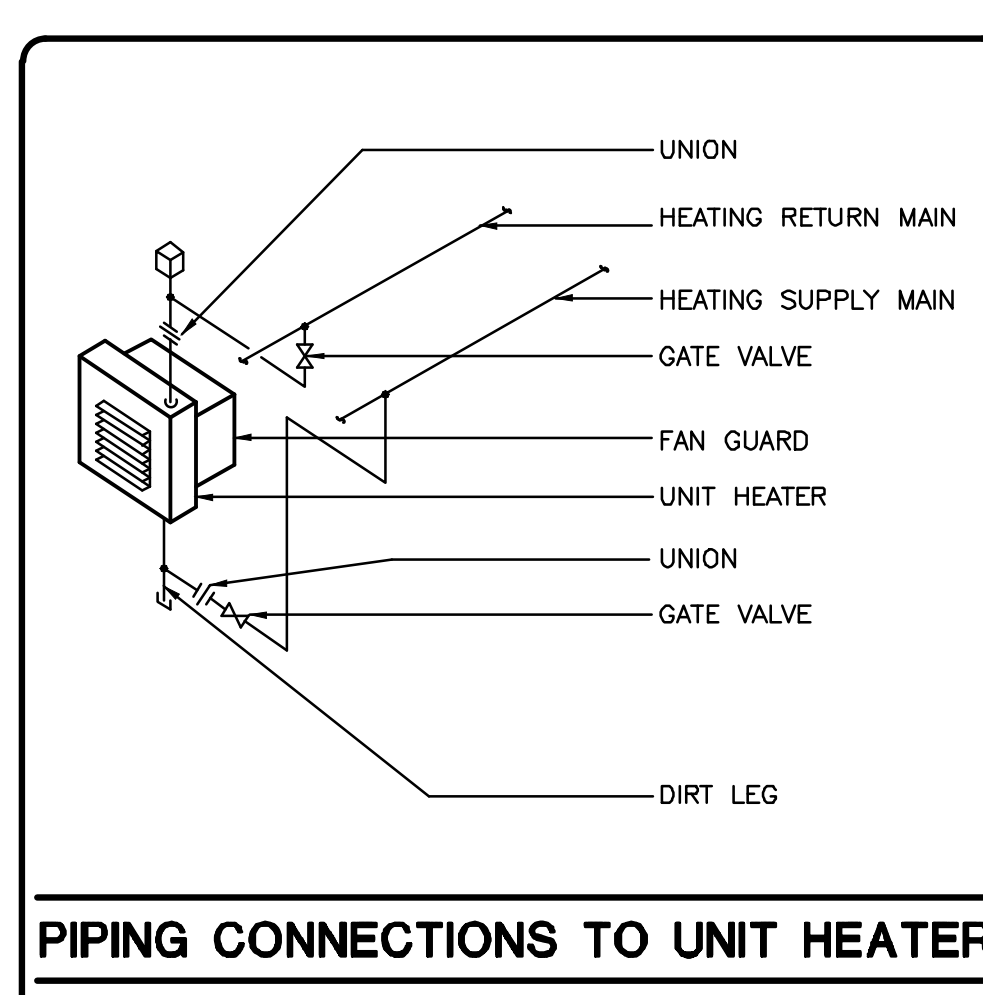
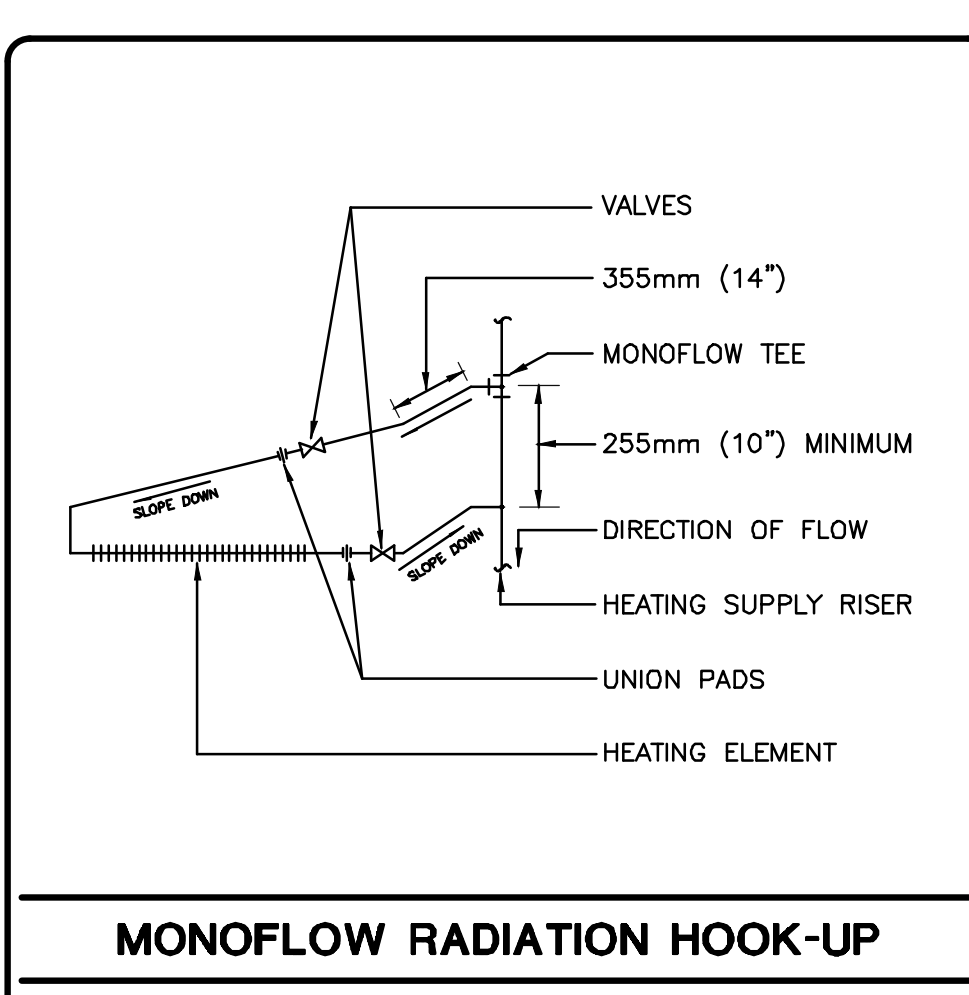
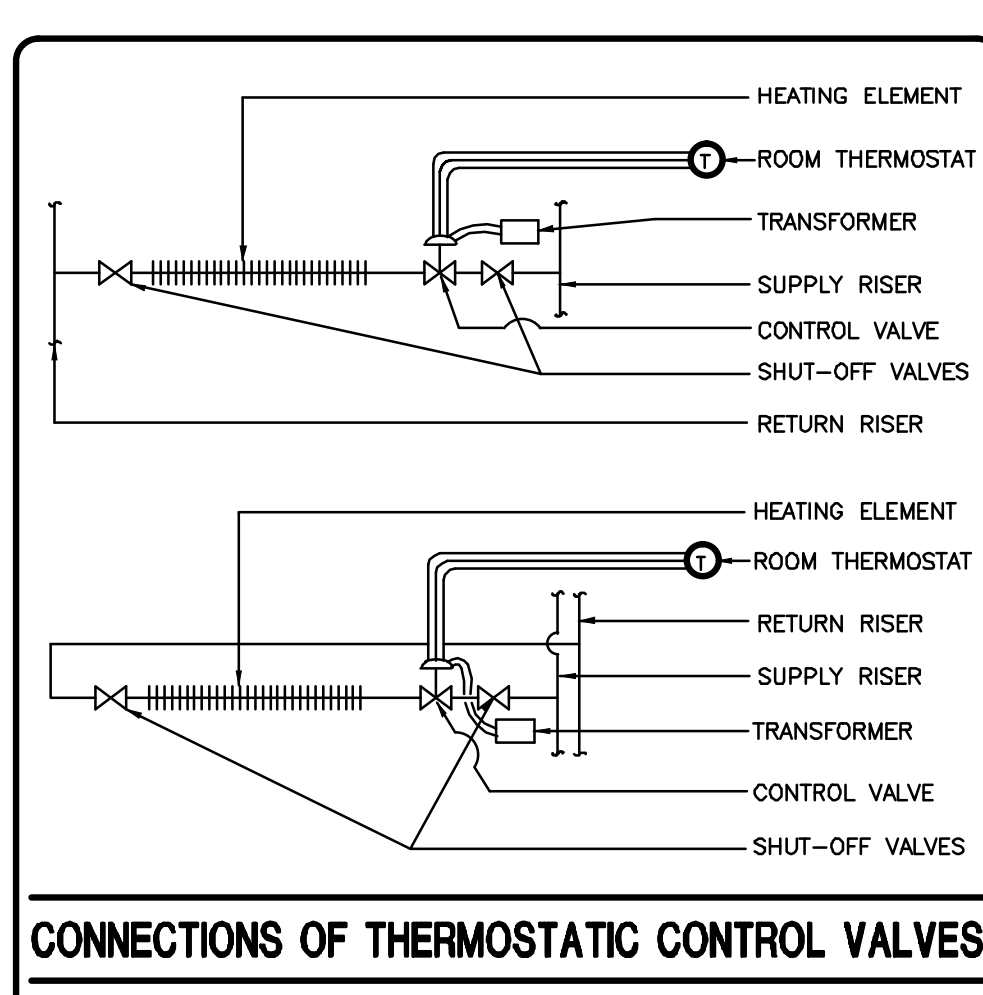
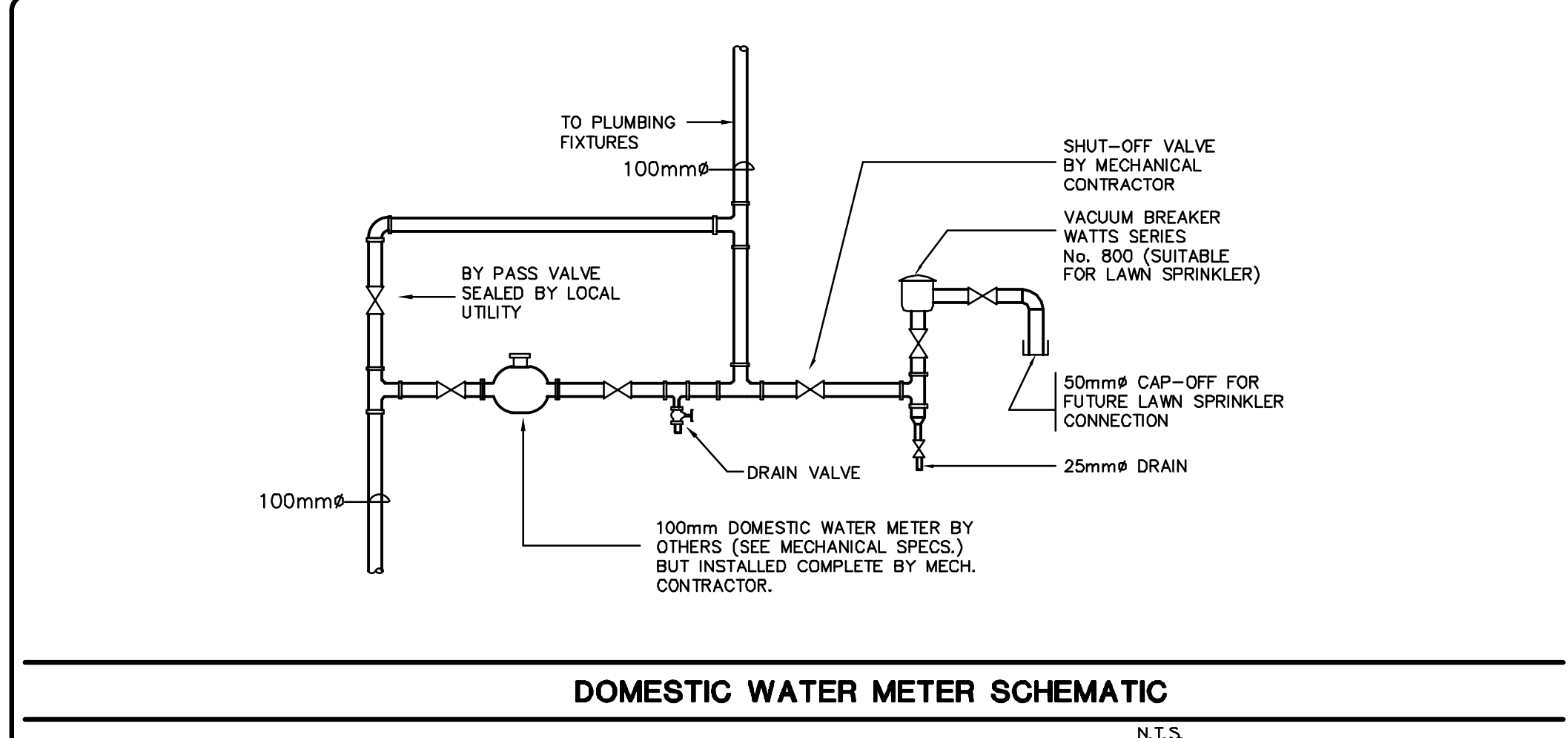
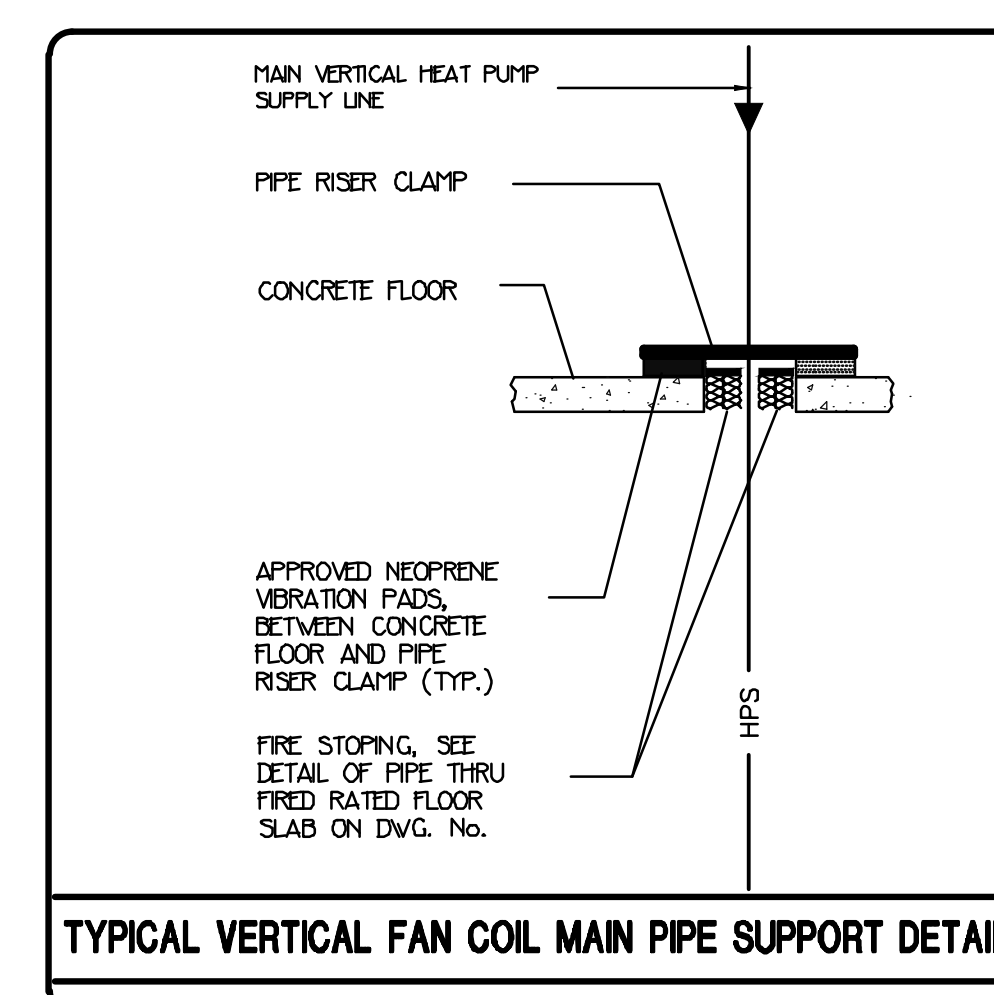
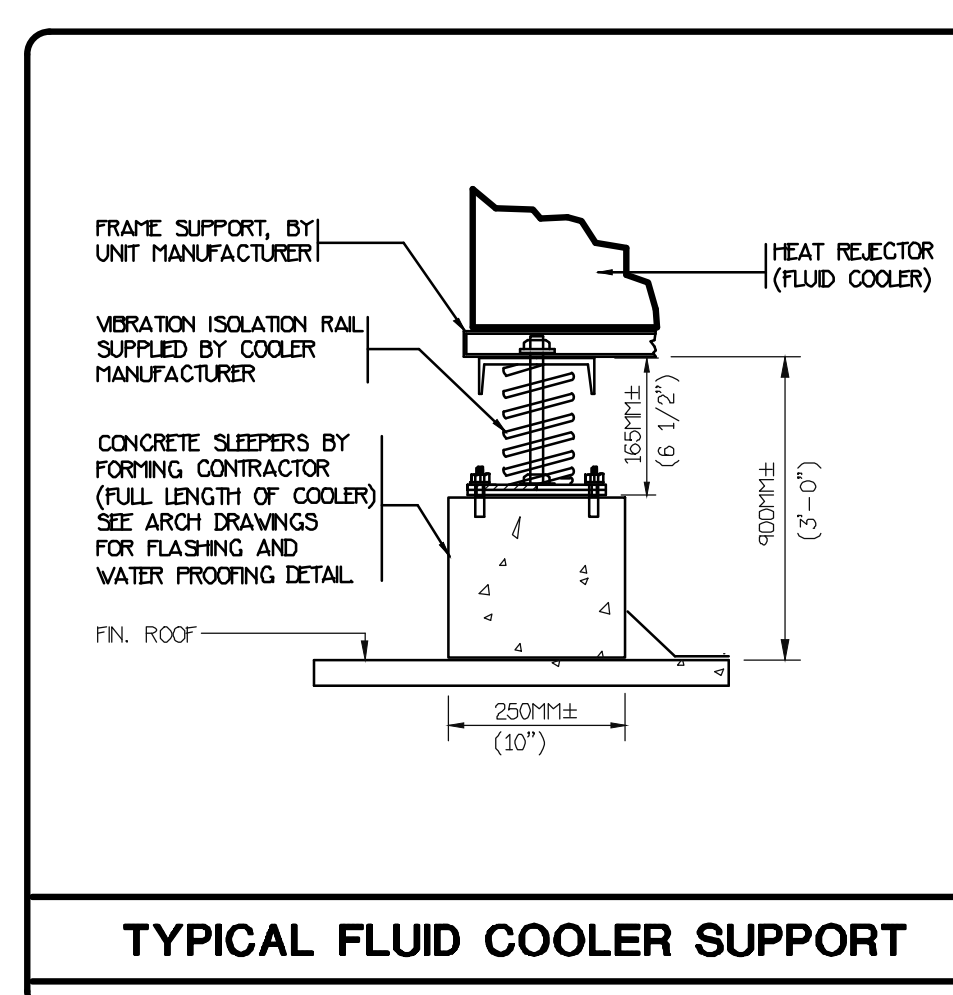
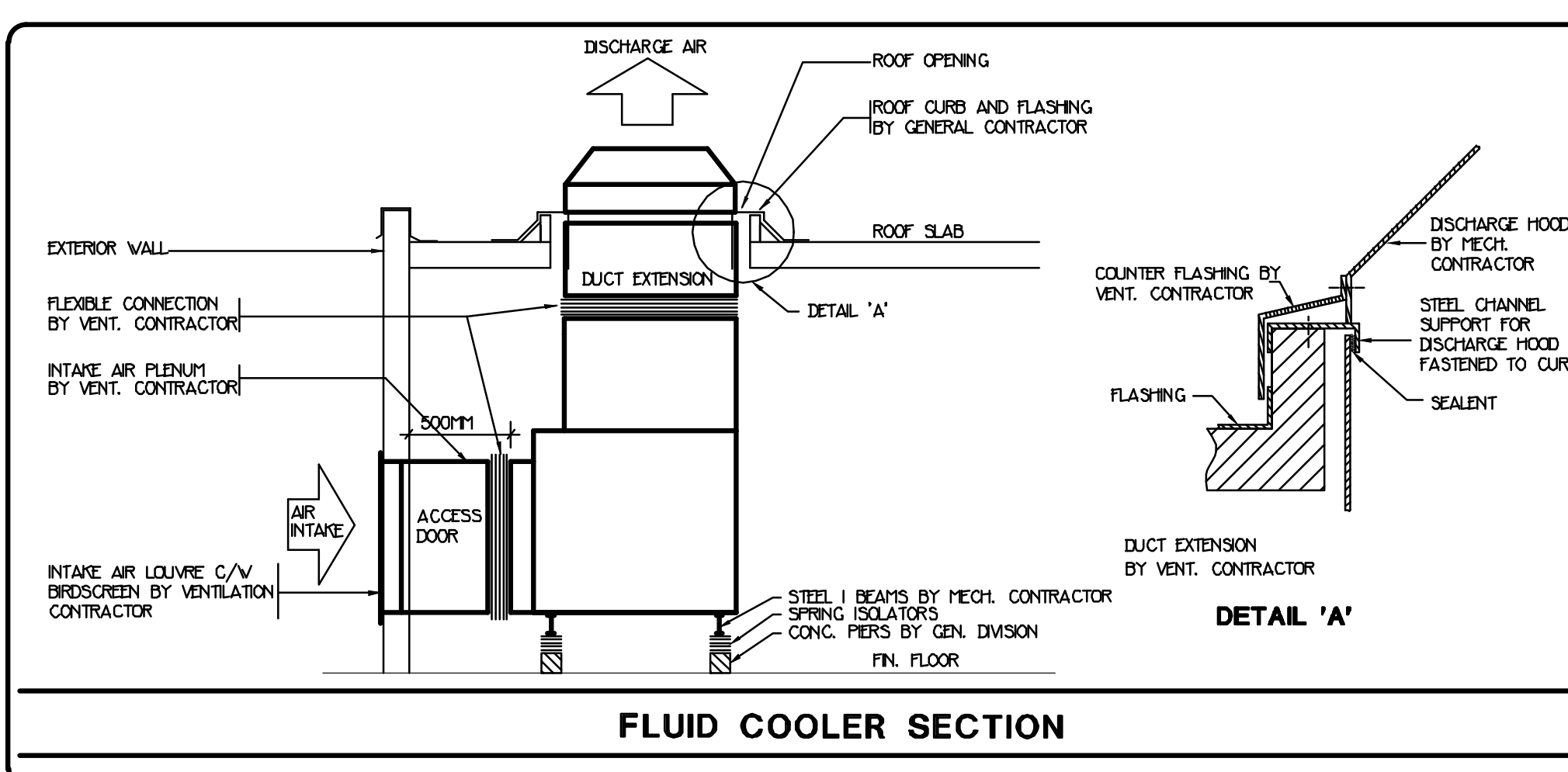
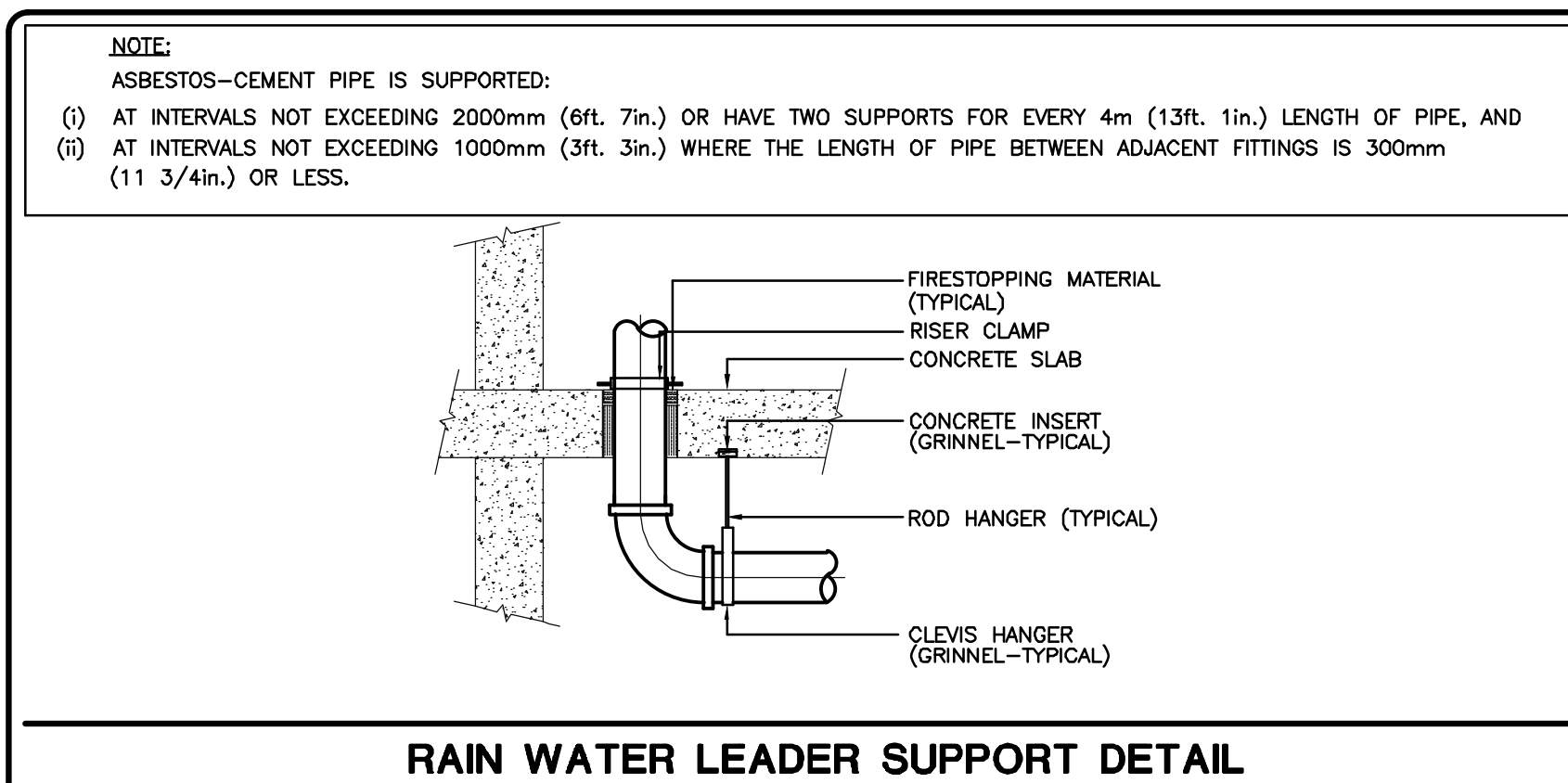
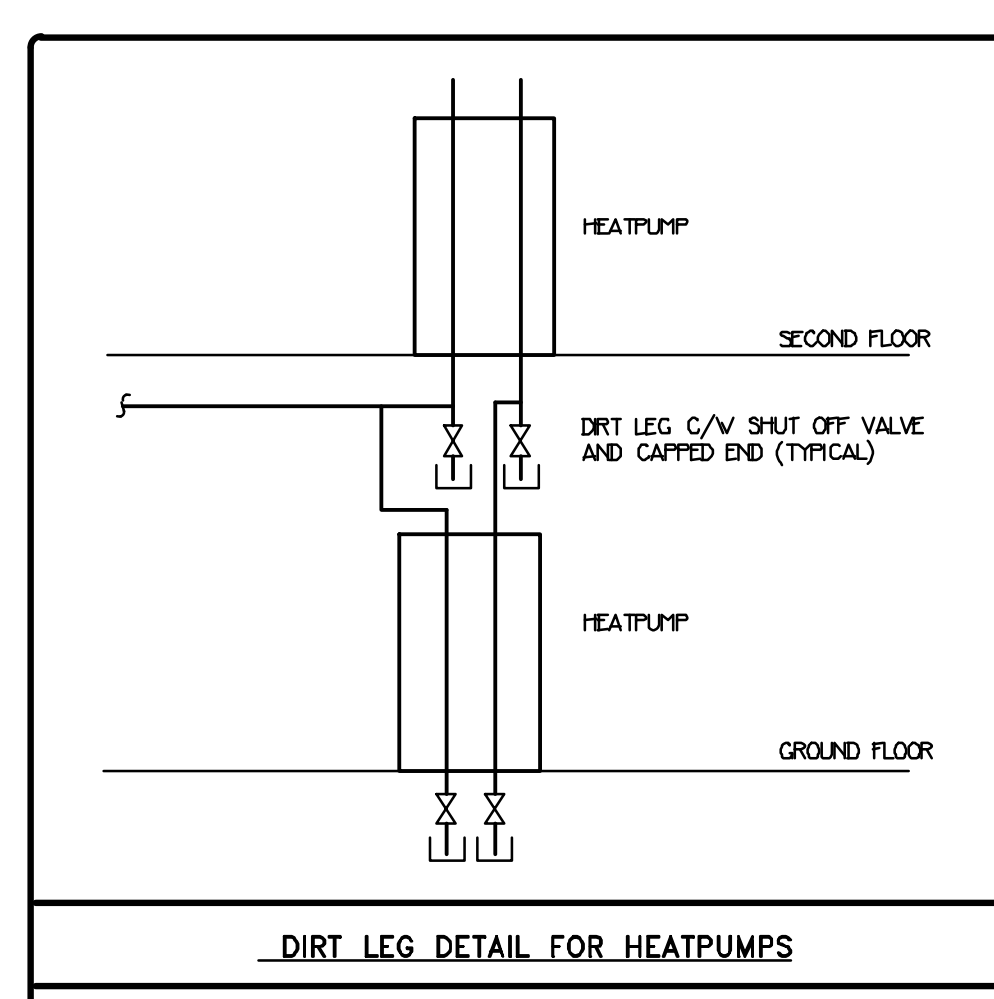
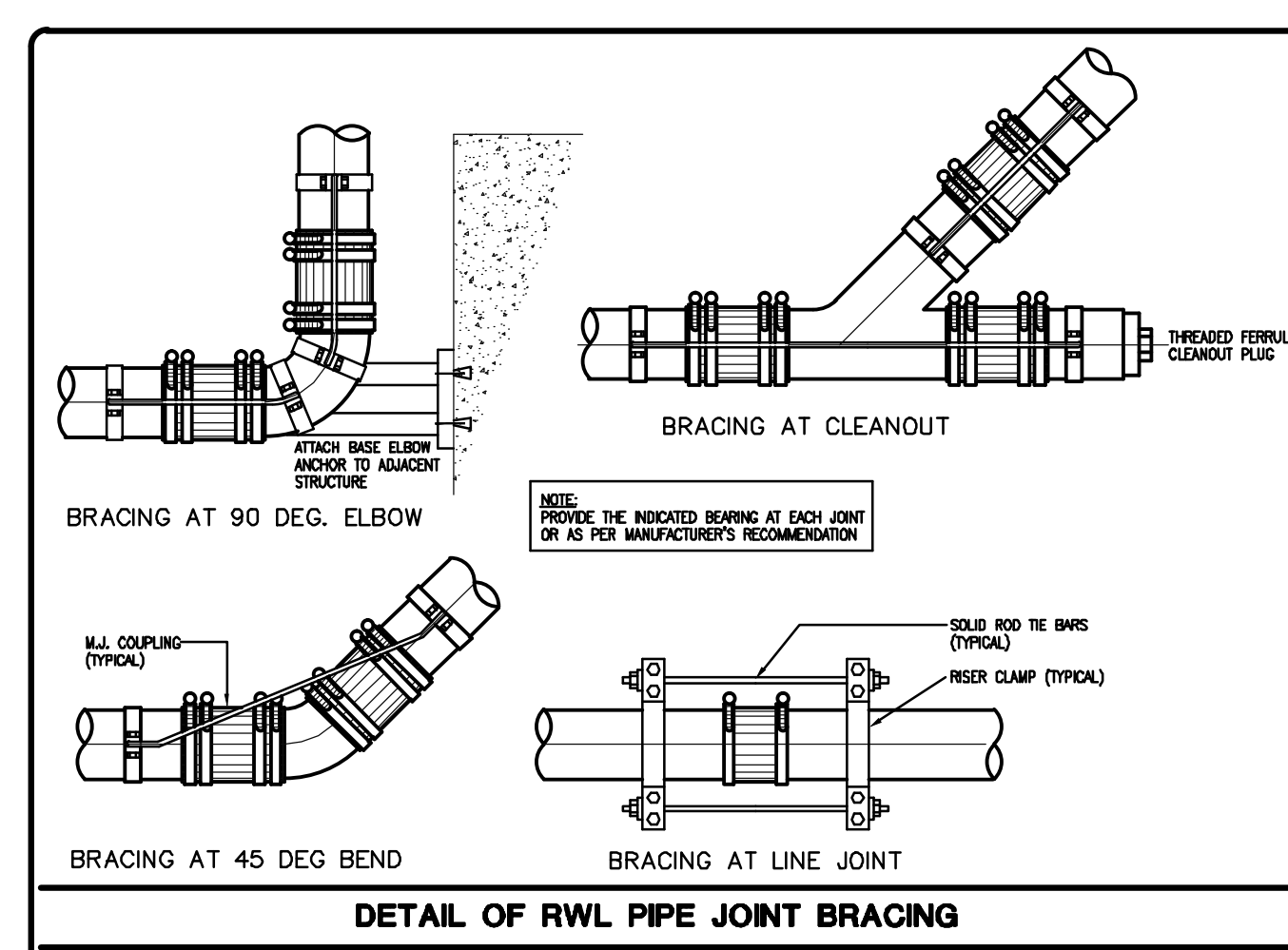
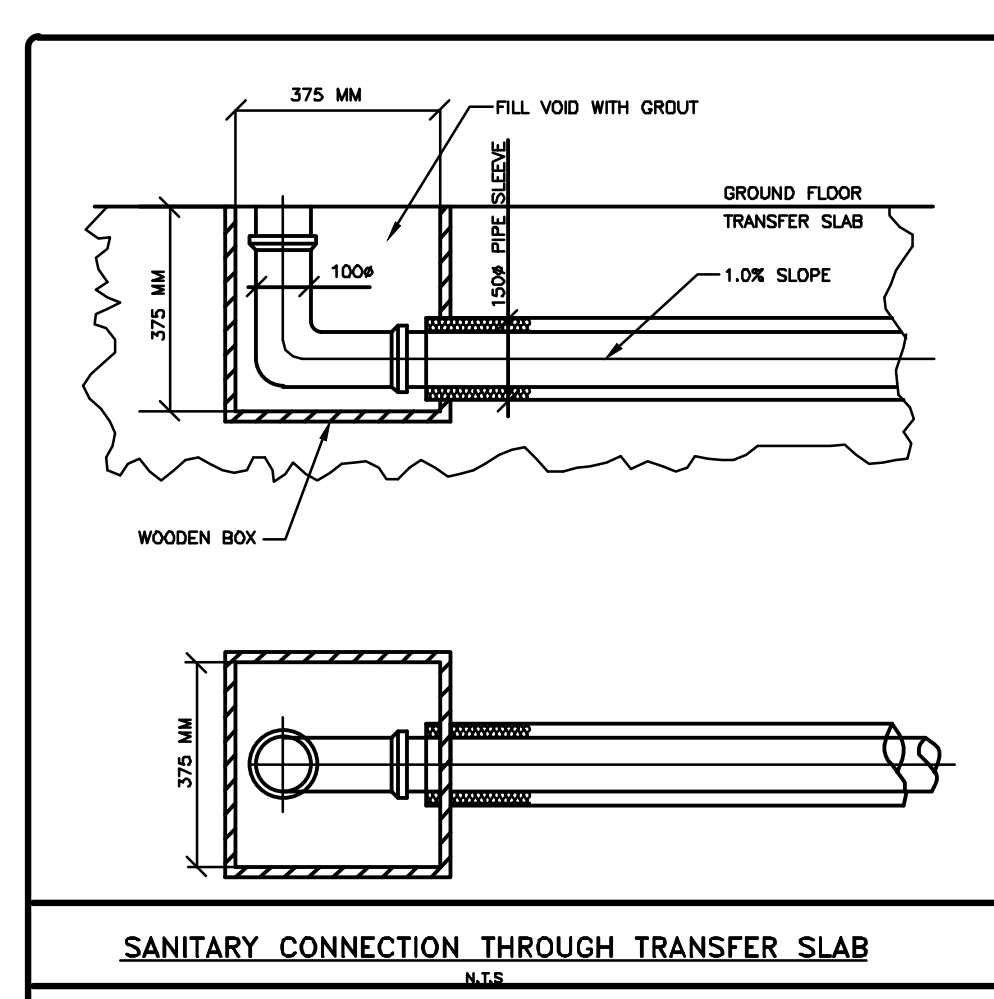
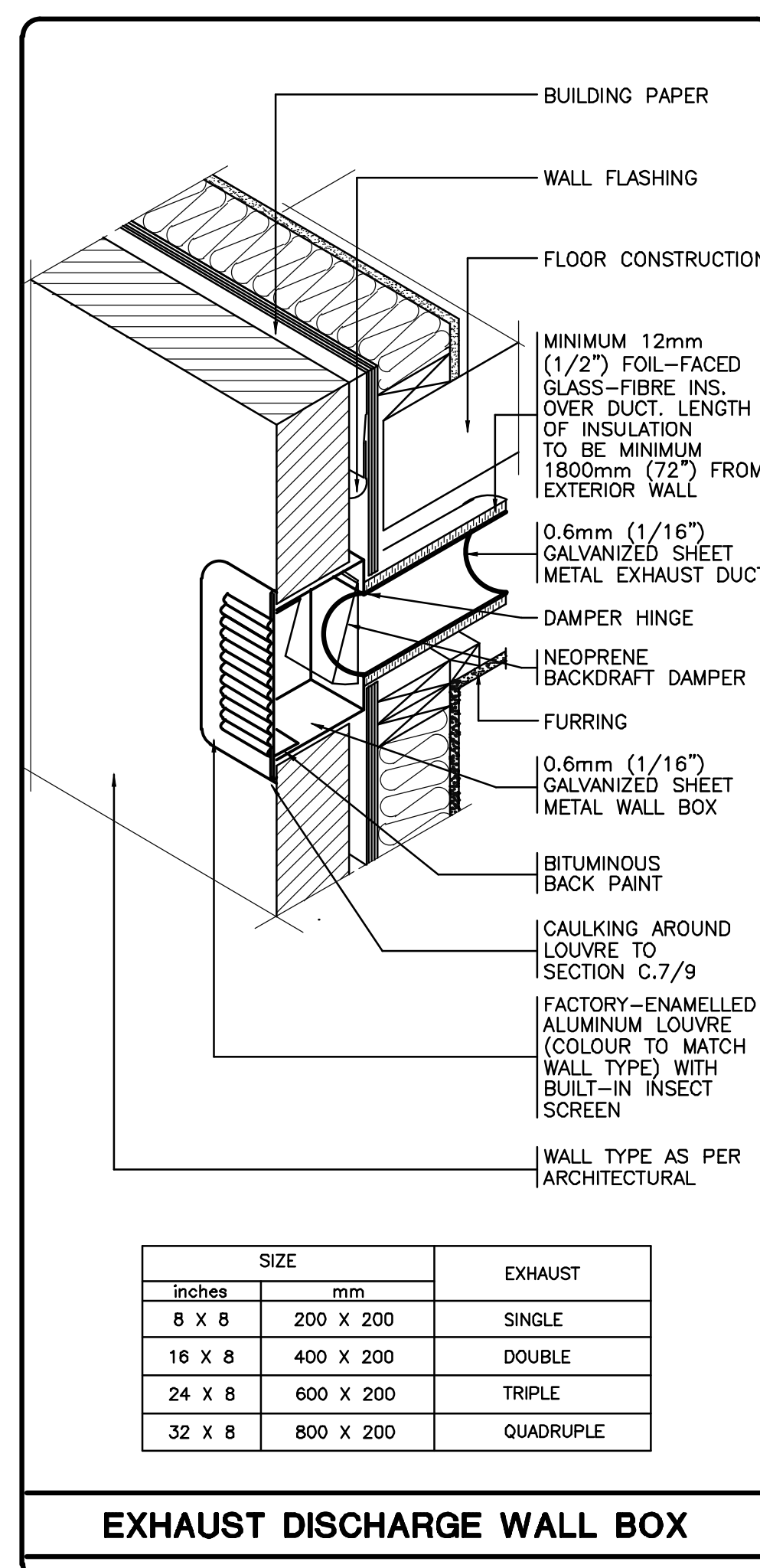
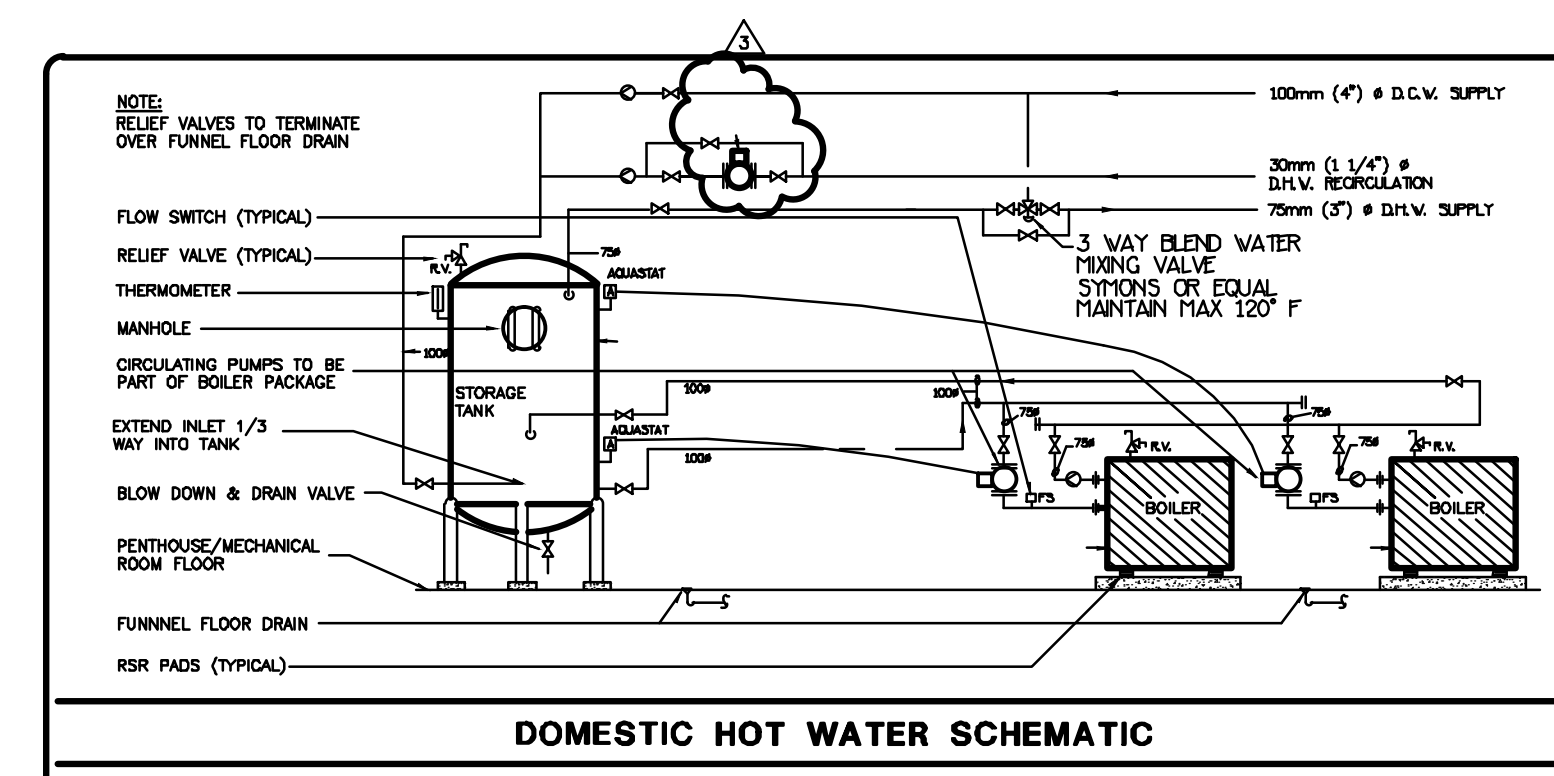
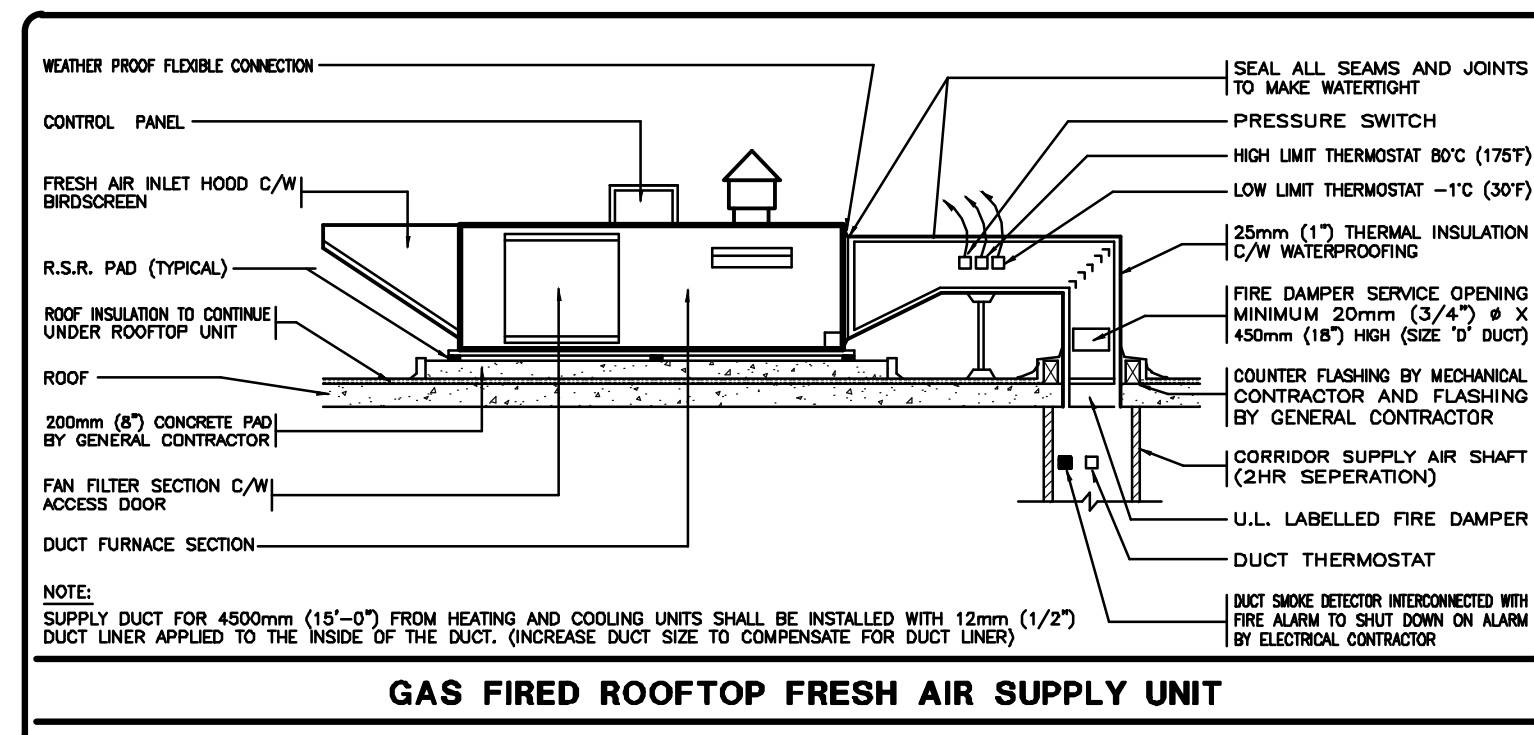
DRAWN GC	CHECKED BT	SCALE NTS
DATE JUNE 2015	PROJECT 14-016	DRAWING M-38 OF 42

NOTE: ALL SUITE FANS SHOULD BE FM (2000) PERFORMANCE CERTIFIED.
NOTE: DRYER FANS AND CONTROL DEVICES SHOULD BE ULC APPROVED FOR DRYER BOOSTER OPERATIONS.
* NOTE: MOTORS FOR SPECIFIED EQUIPMENT TO BE HIGH EFFICIENCY, TO ASHRAE 90.1 STANDARDS (ALL 1% EFFICIENCY LEVELS).

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BOILER ROOM EQUIPMENT SCHEDULE									
NO.	TYPE	LOCATION	HEATING OUTPUT	CAPACITY	QUANTITY	H.P.	MAKE	MODEL	REMARKS
				SIZE	SIZE	K.W.			
(E-1)	HEATING BOILER	BOILER ROOM-1	1940 FEM		4		RAYPAK	H-2000	C/V FIVE STAGES WITH 1000 INCHES OF STEEL
(E-2)	DOY HOT WATER HEATING BOILER	BOILER ROOM			2		RAYPAK	H-2000	C/V FIVE STAGES WITH 1000 INCHES OF STEEL
(E-3)	CONVECTION HOT WATER RAY	BOILER ROOM			1		CLIFFER	H-2000	C/V FIVE STAGES WITH 1000 INCHES OF STEEL
(E-4)	HEAT AIR	BOILER ROOM			1000 W X 600 D				LOCATED 300mm (12") BELOW SLAB
(E-5)	EMERGENCY GAS SHUT-OFF VALVE	BOILER ROOM-1			400 # X 2000 L				LOCATED AT ENTRANCE OF BOILER ROOM ROOF SLAB C/V BROOKER
(E-6)	HEATING SYSTEM DIVISION TANK								LOCATED AT ENTRANCE OF BOILER ROOM ROOF SLAB C/V BROOKER
(E-7)	REVERSE ACTING & RECT RT	ELEV MACH RM							LOCATED AS HIGH AS POSSIBLE
(E-8)	ELECTRIC UNIT HEATER	ELEV MACH RM							LOCATED AS HIGH AS POSSIBLE
(E-9)									
(E-10)									
(E-11)									
(E-12)									
(E-13)									
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HEATING UNIT SCHEDULE										
UNIT No.	DESCRIPTION	LOCATION	HEATING		COOLING	H.P.	ELECTRICAL	MAKE	MODEL	REMARKS
			M.B.H.U.	M.B.H.U.	G.P.H.	K.W.	CHARACTERISTICS			
(H-1)	FW-2A	VEHICULARS & MOVING ROOM	86.7	0.380	1/8 H.P.	120/1/60	ENGINEER-ART	CLH-8	C/V THERMOSTAT, SPEED SWITCH & LOCKABLE TAMPERPROOF GUARD	
(H-2)	FW-2A	STAIRS & CORRIDORS	5.6	0.186	1/8 H.P.	120/1/60	ENGINEER-ART	CLH-4	C/V THERMOSTAT, SPEED SWITCH & LOCKABLE TAMPERPROOF GUARD	
(H-3)	FW-2A	GARAGE ROOM	24.5	0.45	1/25 H.P.	120/1/60	ENGINEER-ART	H-1	C/V THERMOSTAT & STARTER	
(H-4)	BASE ELEMENT 3'-0"	BASEMENT	0.96	0.02				CU/AL 1-1/4X4X4		TO RUN CONTINUOUSLY
(H-5)	BASEMENT ROOMS COUPE 200000 BTU		3.24	0.34					V-4	120V HIGH PRE. STARKING (SHANGHAI STEEL) 4-1/2" X 1/2" ALUMINUM FIN. SPRING/FT
(H-6)	BASEMENT ROOMS COUPE 200000 BTU		9.36	0.436					V-4	120V HIGH PRE. STARKING (SHANGHAI STEEL) 4-1/2" X 1/2" ALUMINUM FIN. SPRING/FT
(H-7)	BASEMENT ROOMS COUPE 200000 BTU		9.36	0.436					V-4	120V HIGH PRE. STARKING (SHANGHAI STEEL) 4-1/2" X 1/2" ALUMINUM FIN. SPRING/FT



4	LB	REVISED AS PER SITE INSTRUCTION T1-5 ISSUED FOR CONSTRUCTION	AUG./09/2017		
3	LB	PROGRESS FOR CONSTRUCTION	JUL./18/2017		
2	LH	ISSUED FOR PERMIT	OCT./26/2016		
1	LH	ISSUED FOR TENDER	MAR./21/2016		
NO.	BY	DESCRIPTION	DATE		

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This drawing is not to be scaled, all symbols are graphic representations only.



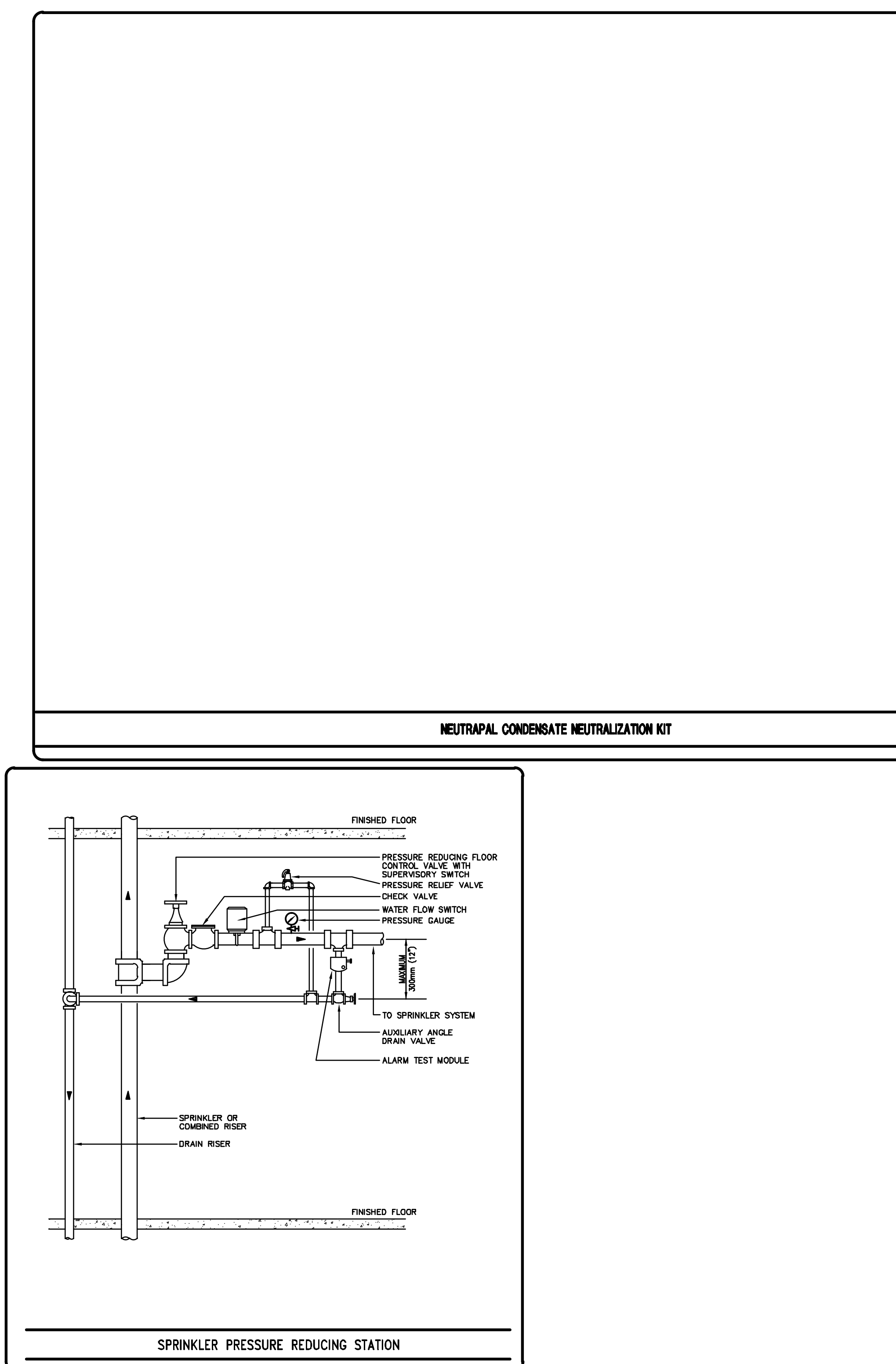
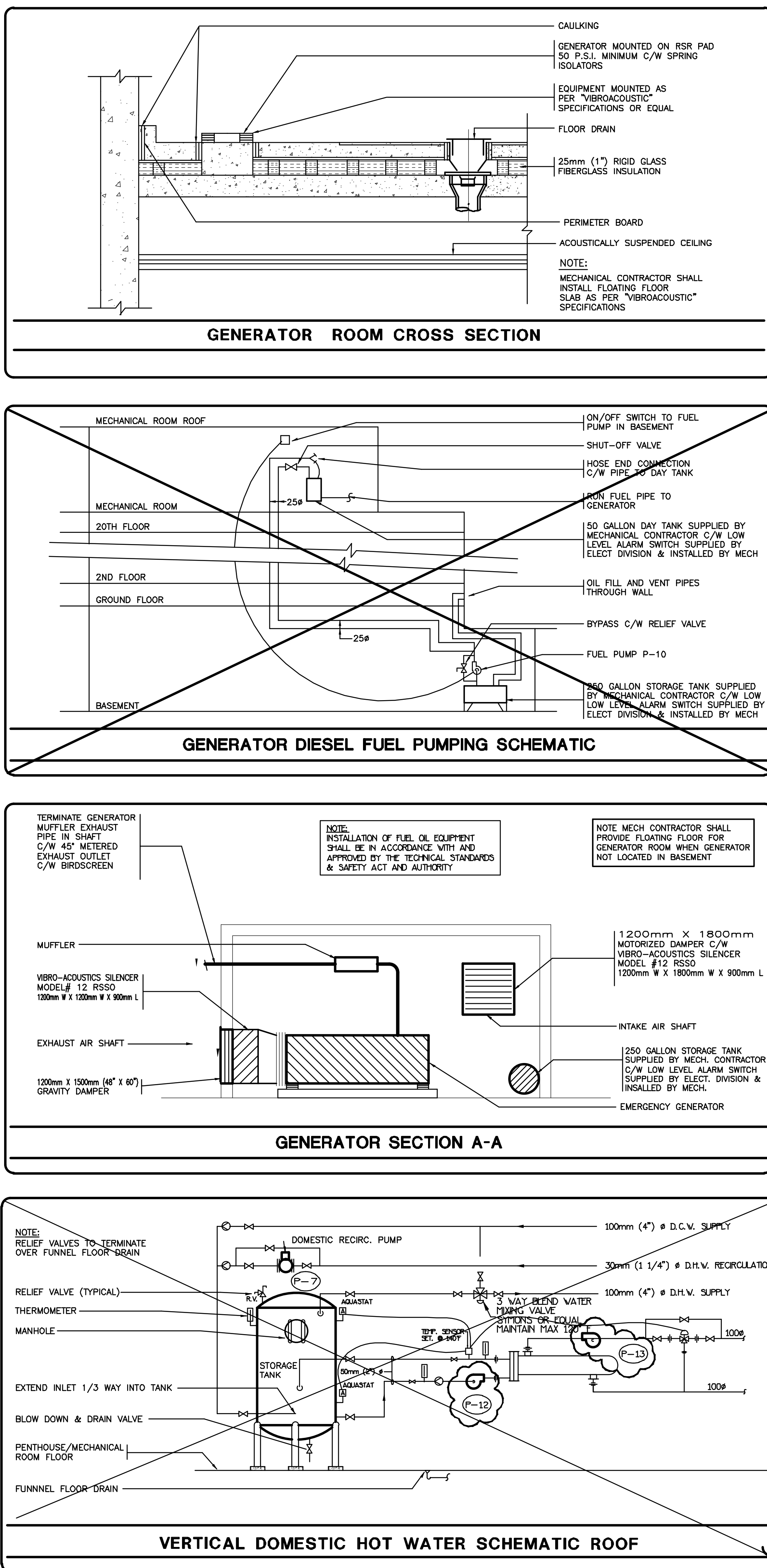
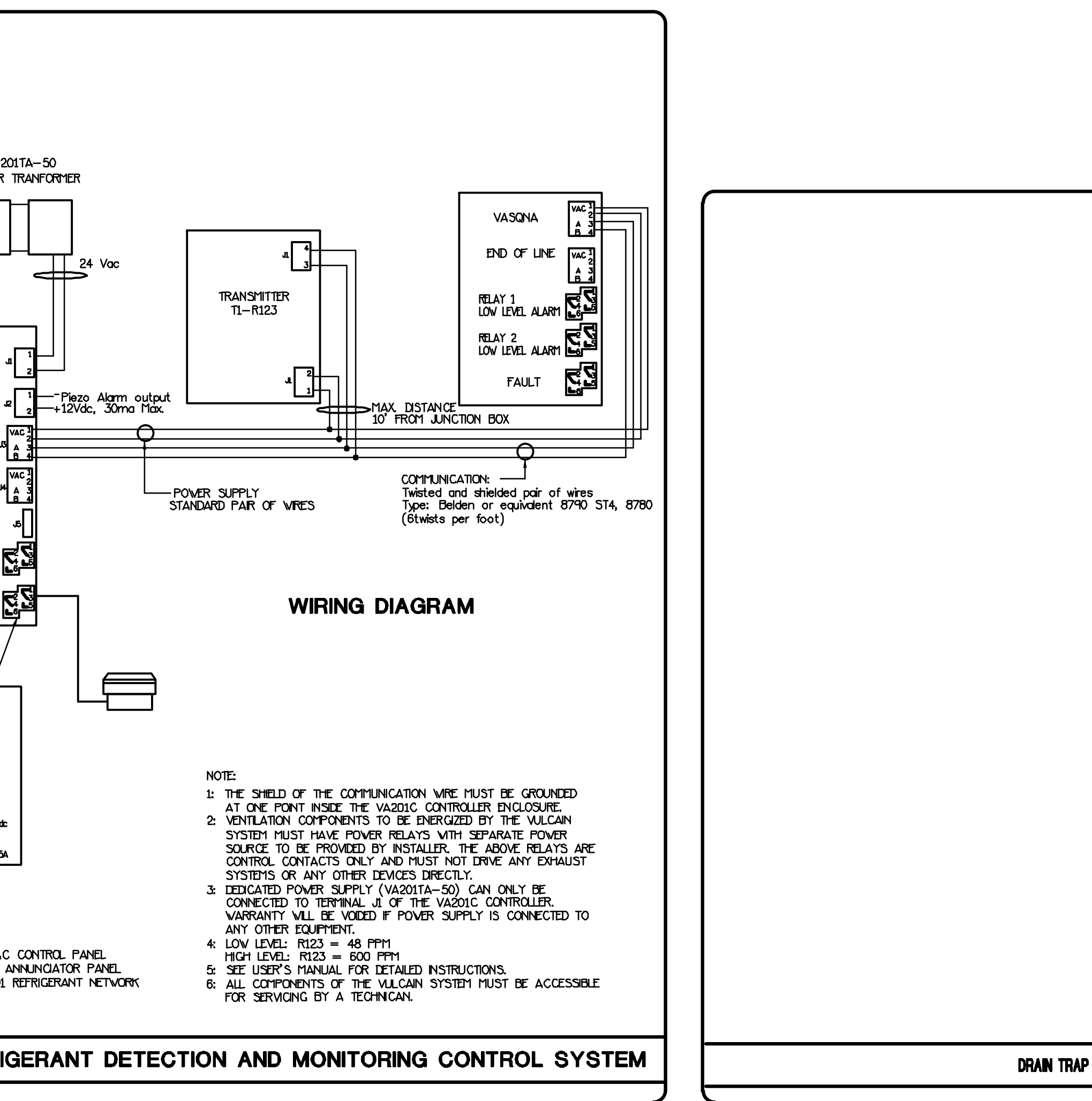
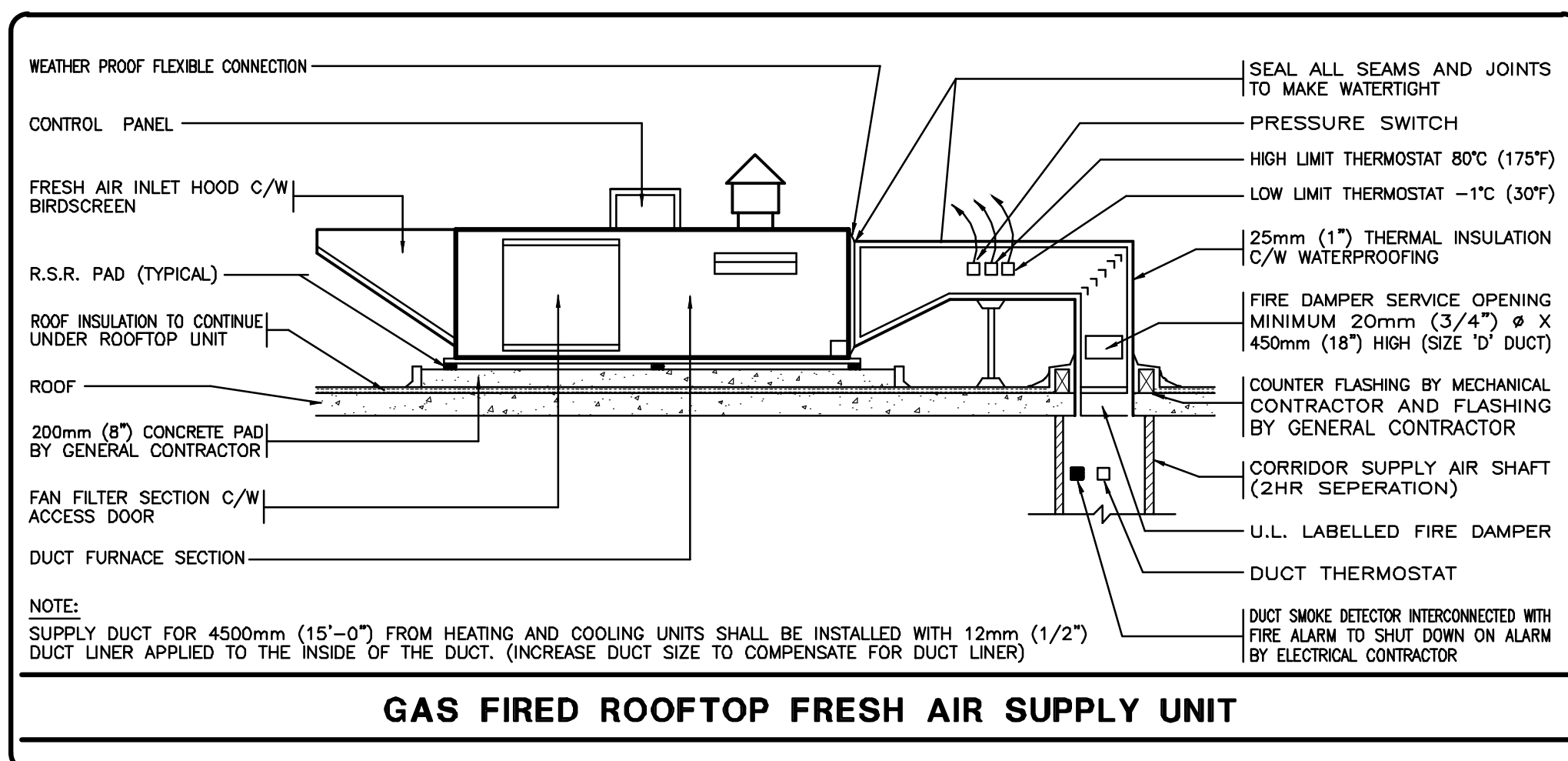
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DETAILS MECHANICAL

PROJECT
25 BAKER HILL BLVD.
ROYAL PINE HOMES

STOUFFVILLE, ONTARIO
PROPOSED RESIDENTIAL DEVELOPMENT

DRAWN GC	CHECKED BT	SCALE NTS
DATE JUNE 2015	PROJECT 14-016	DRAWING M-40 OF 42



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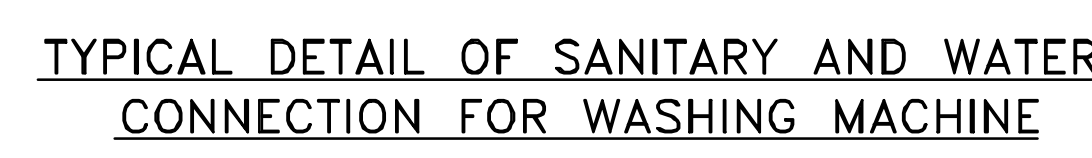
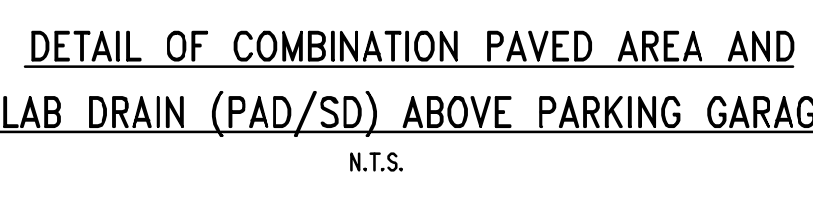
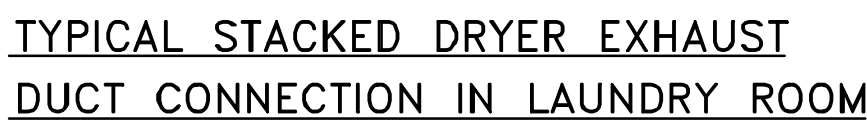
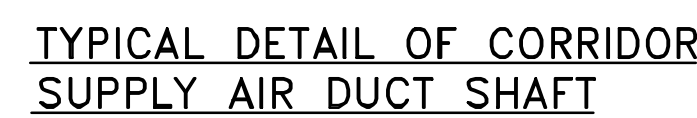


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DETAILS MECHANICAL

PROJECT
25 BAKER HILL BLVD.
ROYAL PINE HOMES

STOUFFVILLE, ONTARIO
PROPOSED RESIDENTIAL DEVELOPMENT

DRAWN GC	CHECKED BT	SCALE NTS
DATE JUNE 2015	PROJECT 14-016	DRAWING M-42 OF 42