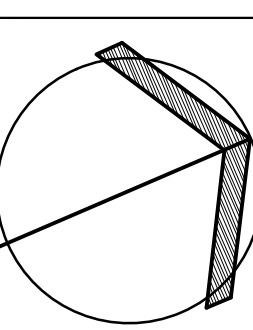


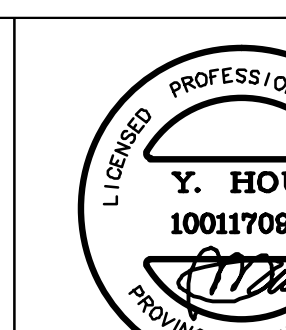
CURRENT SET - April 18 2018

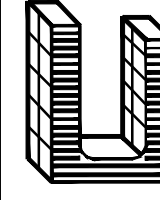
5	LB	REVISED AS PER SITE INSTRUCTION H-5 ISSUED FOR CONSTRUCTION	AUG/04/2017
4	LT	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LT	ISSUED FOR PERMIT	JUL/28/2016
2	OP	REVISED AS PER SITE INSTRUCTION H-2	AUG/16/2016
1	LT	ISSUED FOR TENDER	MAR/21/2016
NO.	BY	DESCRIPTION	DATE

REVISIONS

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United Engineering Inc.

Mechanical Electrical Consulting Engineers
 3045 Keele Street, Suite 105,
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 Tel: (416) 598 1999, Fax: (416) 598 1933

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

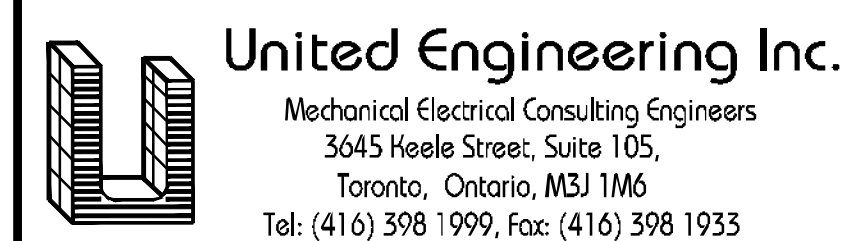


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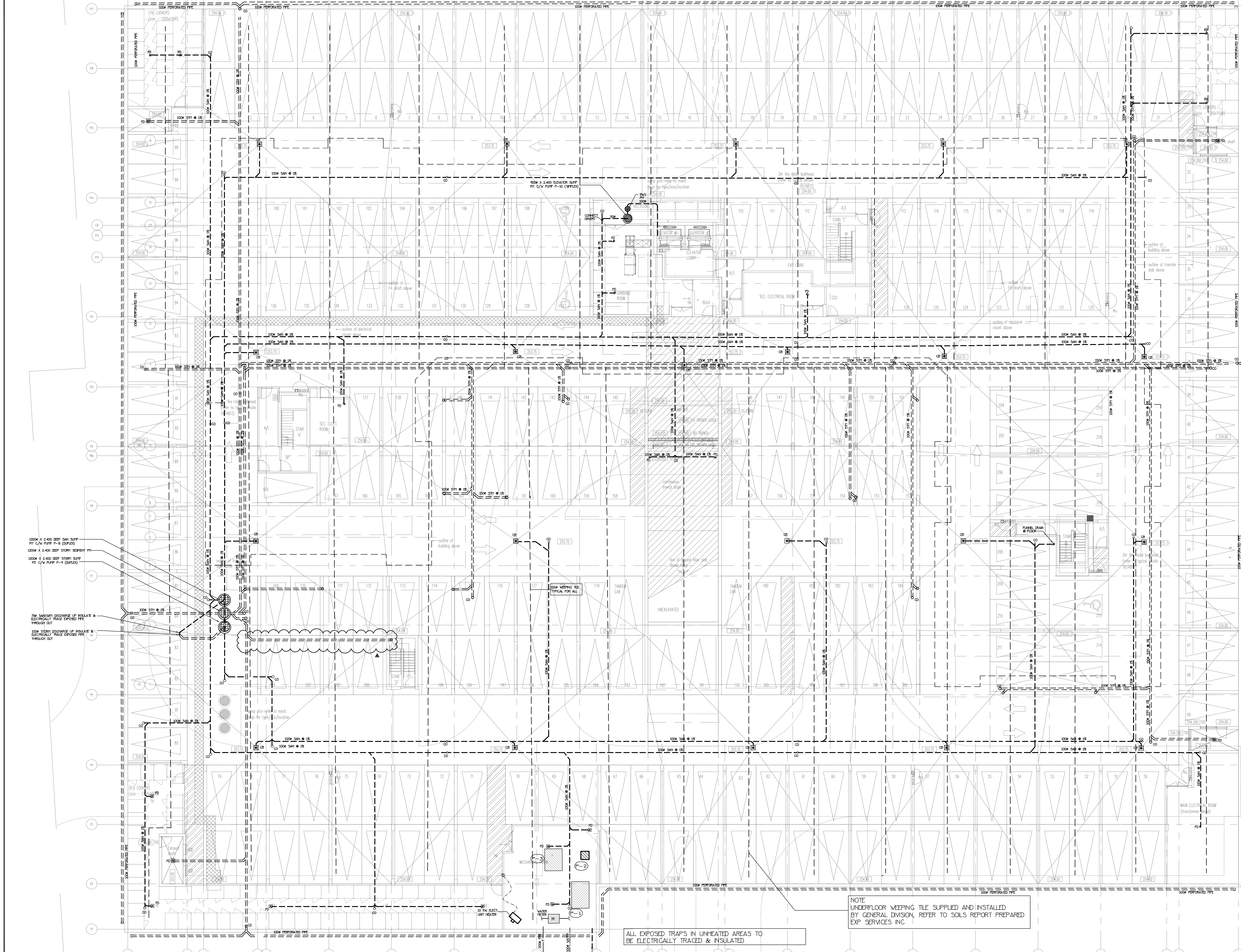


PROJECT
25 BAKER HILL BLVD.
ROYAL PINE HOMES

DRAWN	CHECKED	SCALE
-------	---------	-------

GC	BT	1:100
DATE	PROJECT	DRAWING
JUNE 2015	14-016	M-2
		OF 42

NOTE: FINAL DRUM DRIP LOCATIONS MUST BE CO-ORDINATED WITH THE ELECTRICAL CONTRACTOR ON SITE



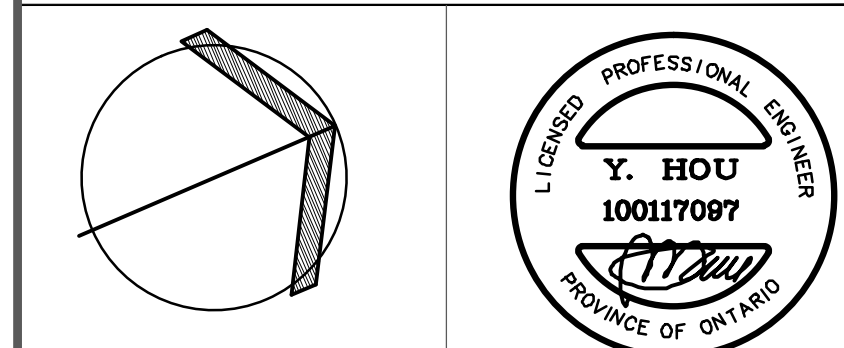
1200 X 2400 DEEP SAN SUMP
MT C/V PUMP P-8 (DUPLEX)
1200 X 2400 DEEP STORM SEWER MT
1200 X 2400 DEEP STORM SUMP
MT C/V PUMP P-9 (DUPLEX)
750 SANITARY DISCHARGE UP INSULATE &
ELECTRICALLY TRACE EXPOSED PIPE
THROUGH OUT
1000 STORM DISCHARGE UP INSULATE &
ELECTRICALLY TRACE EXPOSED PIPE
THROUGH OUT

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

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

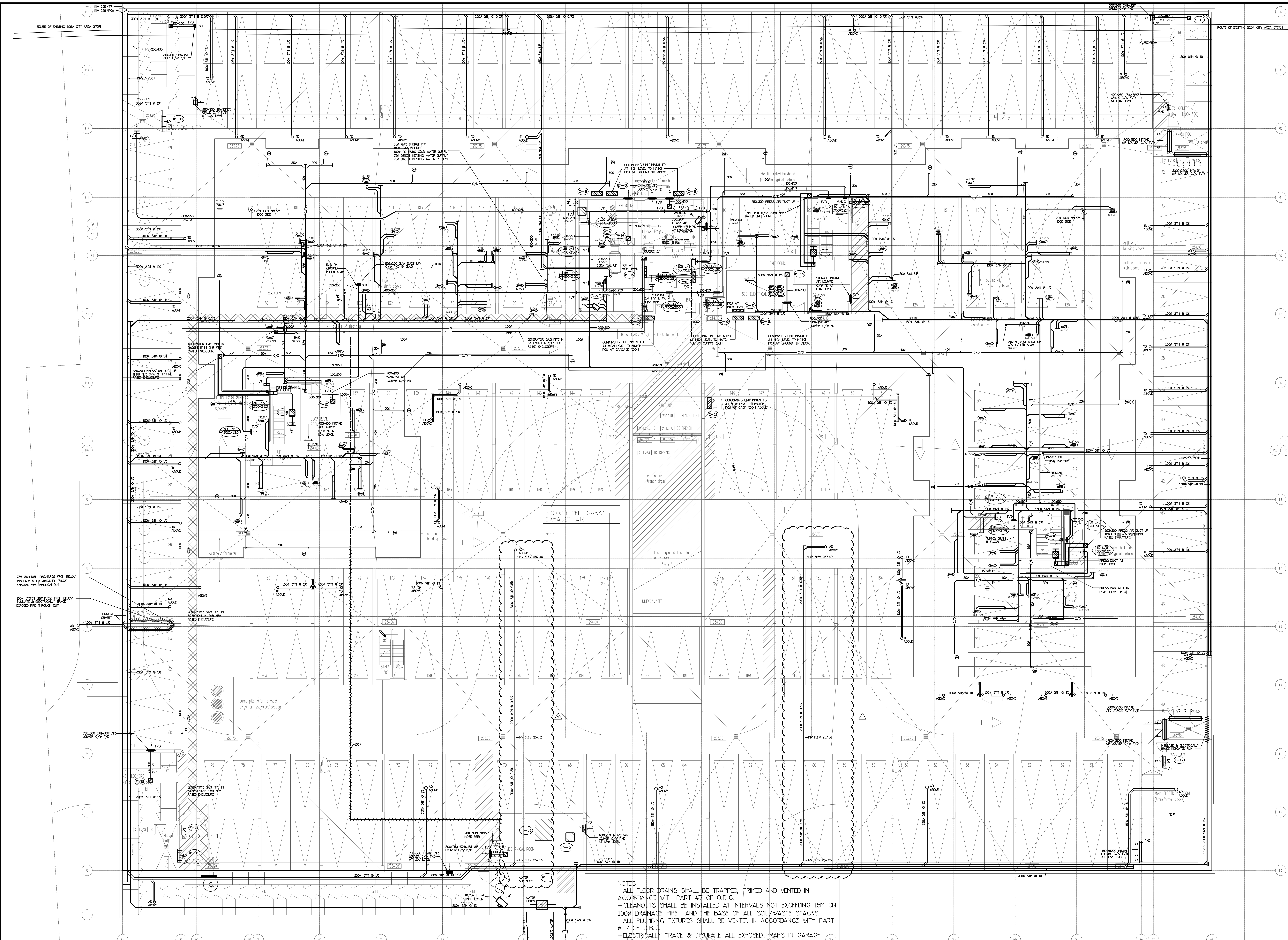
NO.	BY	DESCRIPTION	DATE
1	LM	ISSUED FOR PERMIT	MAR/21/2016
2	LD	PROGRESS FOR CONSTRUCTION	JUL/16/2017
3	LD	REVISED AS PER SITE INSTRUCTION H-5	AUG/09/2017
4	LD	REVISED AS PER SITE INSTRUCTION H-5	SEP/20/2017
5	LD	REVISED AS PER SITE INSTRUCTION H-5	OCT/19/2017
6	LD	REVISED AS PER SITE INSTRUCTION H-5	DEC/11/2017
7	LD	REVISED AS PER SITE INSTRUCTION H-11	DEC/11/2017
8	LD	REVISED AS PER SITE INSTRUCTION H-12	DEC/13/2017

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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	SCALE 1:100
DATE JUNE 2015	PROJECT 14-016	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
1	LD	REVISED AS PER SITE INSTRUCTION H-13	FEB/02/2018
2	LD	REVISED AS PER SITE INSTRUCTION H-12	DEC/13/2017
3	LD	REVISED AS PER SITE INSTRUCTION H-11	DEC/11/2017
4	LD	REVISED AS PER SITE INSTRUCTION H-9	OCT/19/2017
5	LD	REVISED AS PER SITE INSTRUCTION H-7	SEP/11/2017
6	LD	ISSUED FOR SITE INSTRUCTION H-5	AUG/09/2017
7	LD	ISSUED FOR CONSTRUCTION	JUL/18/2017
8	LD	PROGRESS FOR CONSTRUCTION	SEP/11/2017
9	LD	ISSUED FOR PERMIT	DEC/28/2016
10	LD	ISSUED FOR TENDER	MAR/21/2016

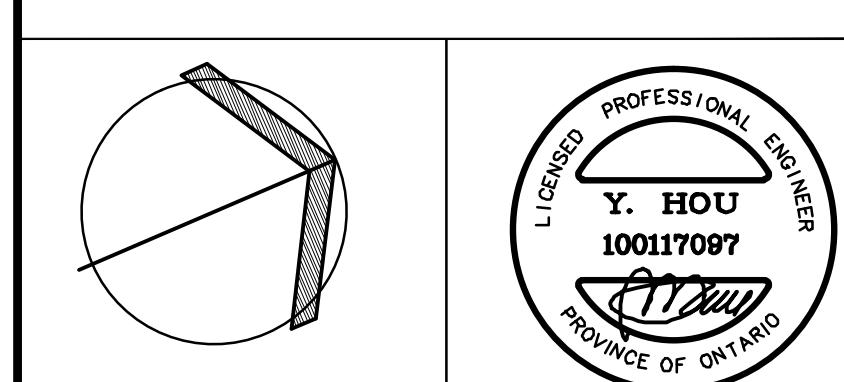
REVISIONS	
NO.	DESCRIPTION
1	LD
2	LD
3	LD
4	LD
5	LD
6	LD
7	LD
8	LD
9	LD
10	LD

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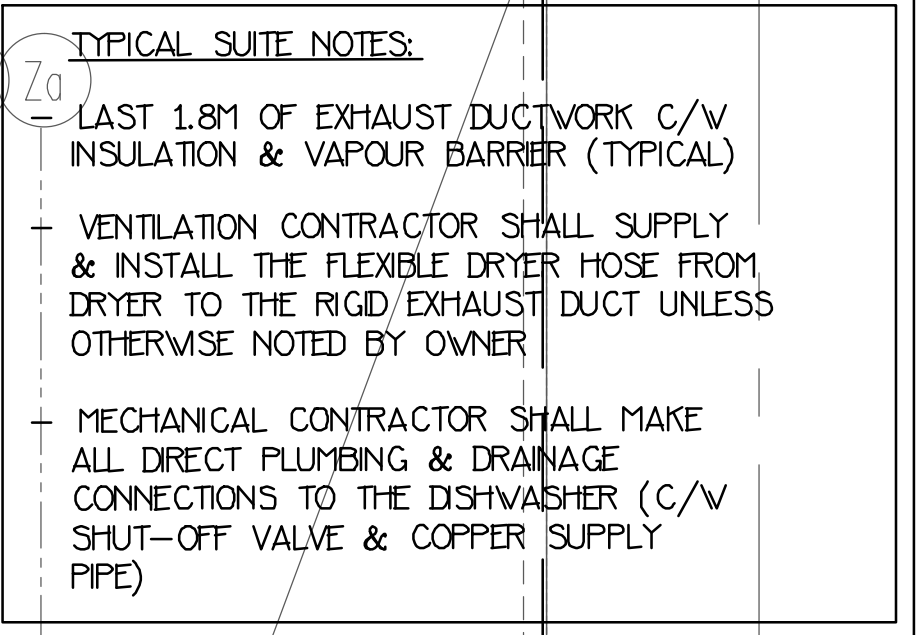
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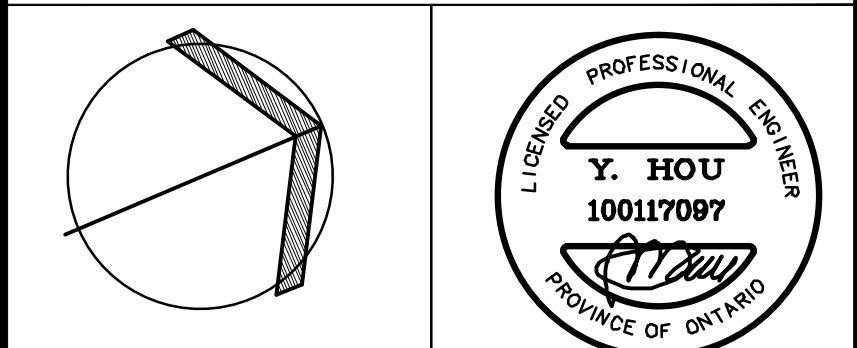
United Engineering Inc.
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TITLE	
PARKING LEVEL PLAN MECHANICAL	
PROJECT	
25 BAKER HILL BLVD. ROYAL PINE HOMES	
STOUFFVILLE, ONTARIO	
PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN	CHECKED
GC	BT
DATE	PROJECT
JUNE 2015	14-016
SCALE	
1:100	
DRAWING	
M-4	
OF 42	



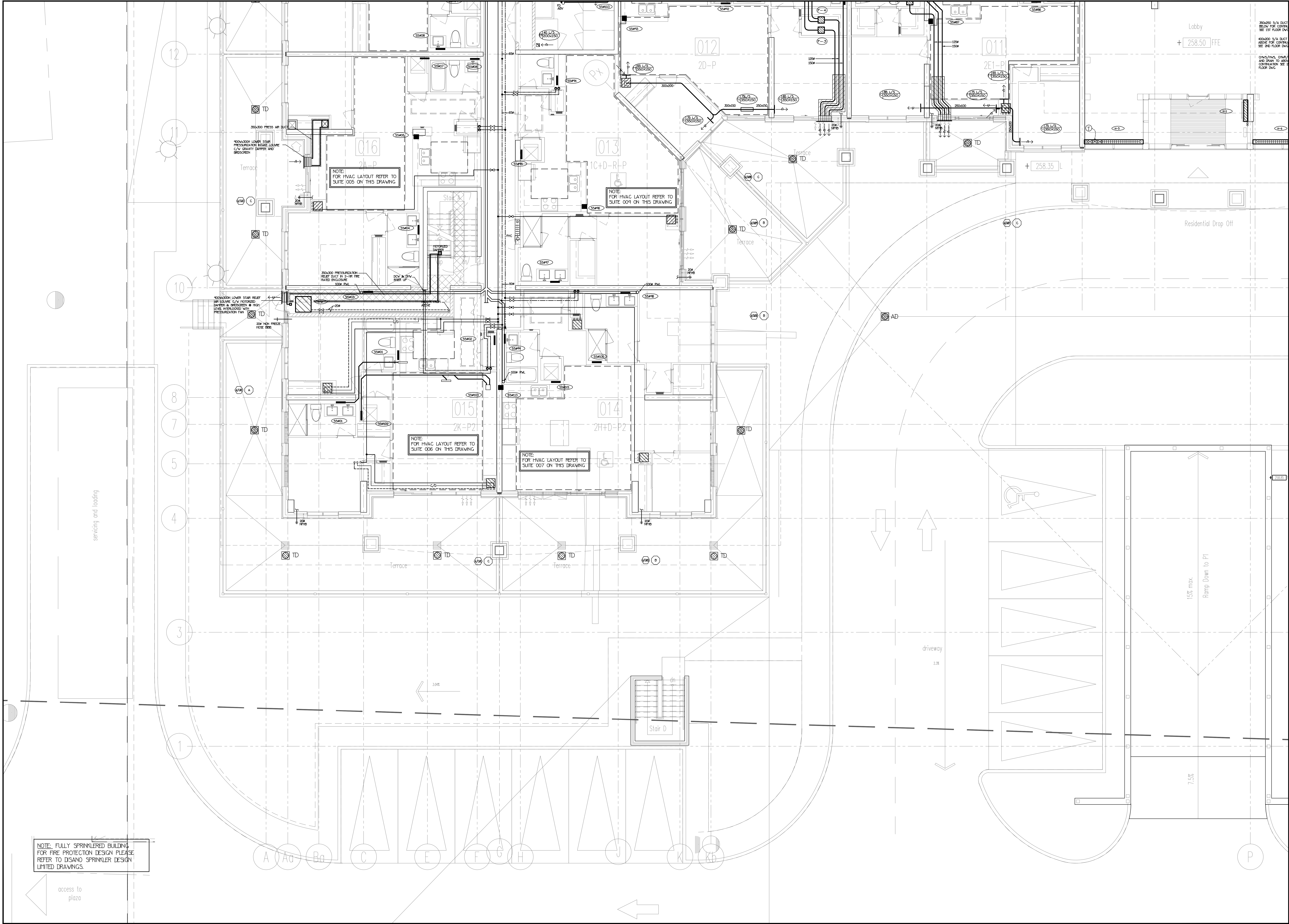
6	LB	REVISED AS PER SITE INSTRUCTION M-14	MAR/14/2018
7	LB	REVISED AS PER SITE INSTRUCTION M-10	OCT/31/2017
5	LB	REVISED AS PER SITE INSTRUCTION M-7	SEP/11/2017
6	LB	REVISED AS PER SITE INSTRUCTION M-5 (ISSUED FOR CONSTRUCTION)	AUG/09/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	OP	REVISED AS PER SITE INSTRUCTION M-3	MAR/02/2017
2	LB	ISSUED FOR PERMIT	DEC/28/2016
1	LB	ISSUED FOR TENDER	MAR/21/2016
NO. BY	DESCRIPTION		DATE

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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		PROJECT	DRAWING
JUNE 2015		14-016	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	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
5	LB	REVISED AS PER SITE INSTRUCTION P1-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
6	LB	REVISED AS PER SITE INSTRUCTION P1-7	SEP/11/2017

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Toronto, Ontario, M3J 1M6
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TITLE
1ST FLOOR LEVEL
MECHANICAL

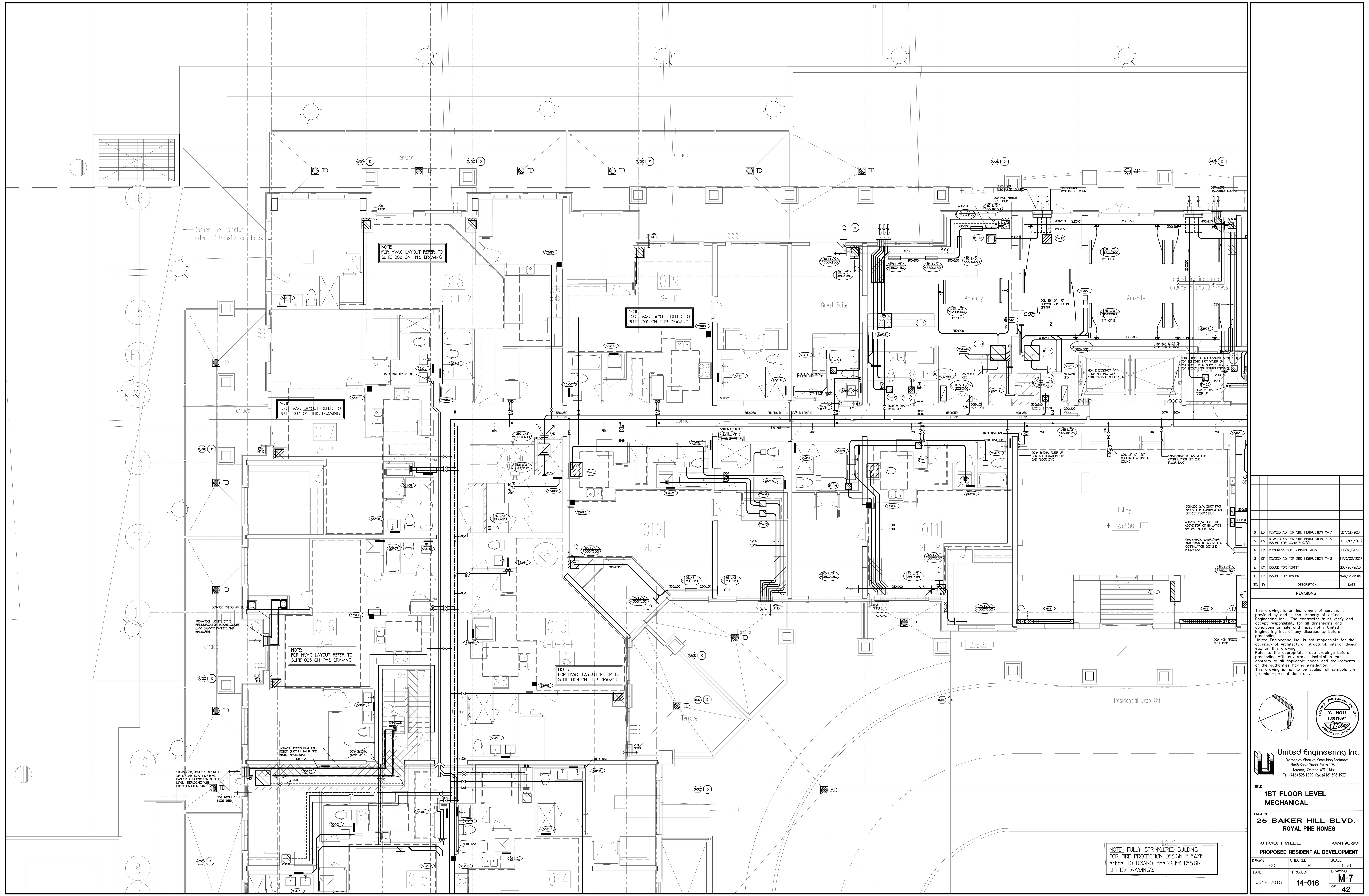
PROJECT
25 BAKER HILL BLVD.
ROYAL PINE HOMES

STOUFFVILLE, ONTARIO
PROPOSED RESIDENTIAL DEVELOPMENT

DRAWN	CHECKED	SCALE
GC	BT	1:50

DATE	PROJECT	DRAWING
JUNE 2015	14-016	M-6

OF 42



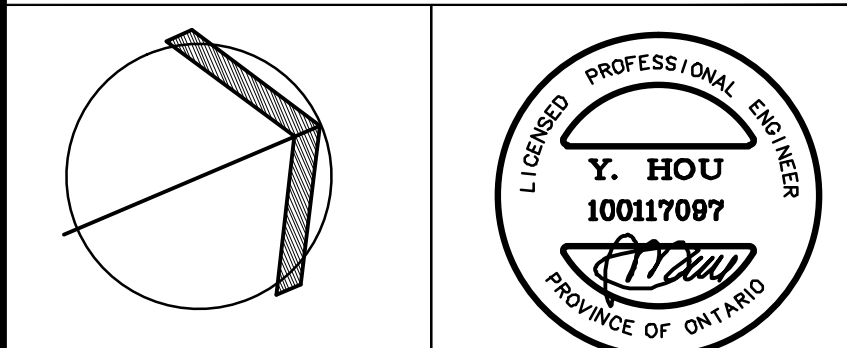
NO.	BY	DESCRIPTION	DATE
1	U1	ISSUED FOR TENDER	MAY/21/2016
2	U1	ISSUED FOR PERMIT	JUL/28/2016
3	OF	REVISED AS PER SITE INSTRUCTION FI-3	MAR/02/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
5	LB	REVISED AS PER SITE INSTRUCTION FI-5	AUG/09/2017
6	LB	REVISED AS PER SITE INSTRUCTION FI-7	SEP/11/2017

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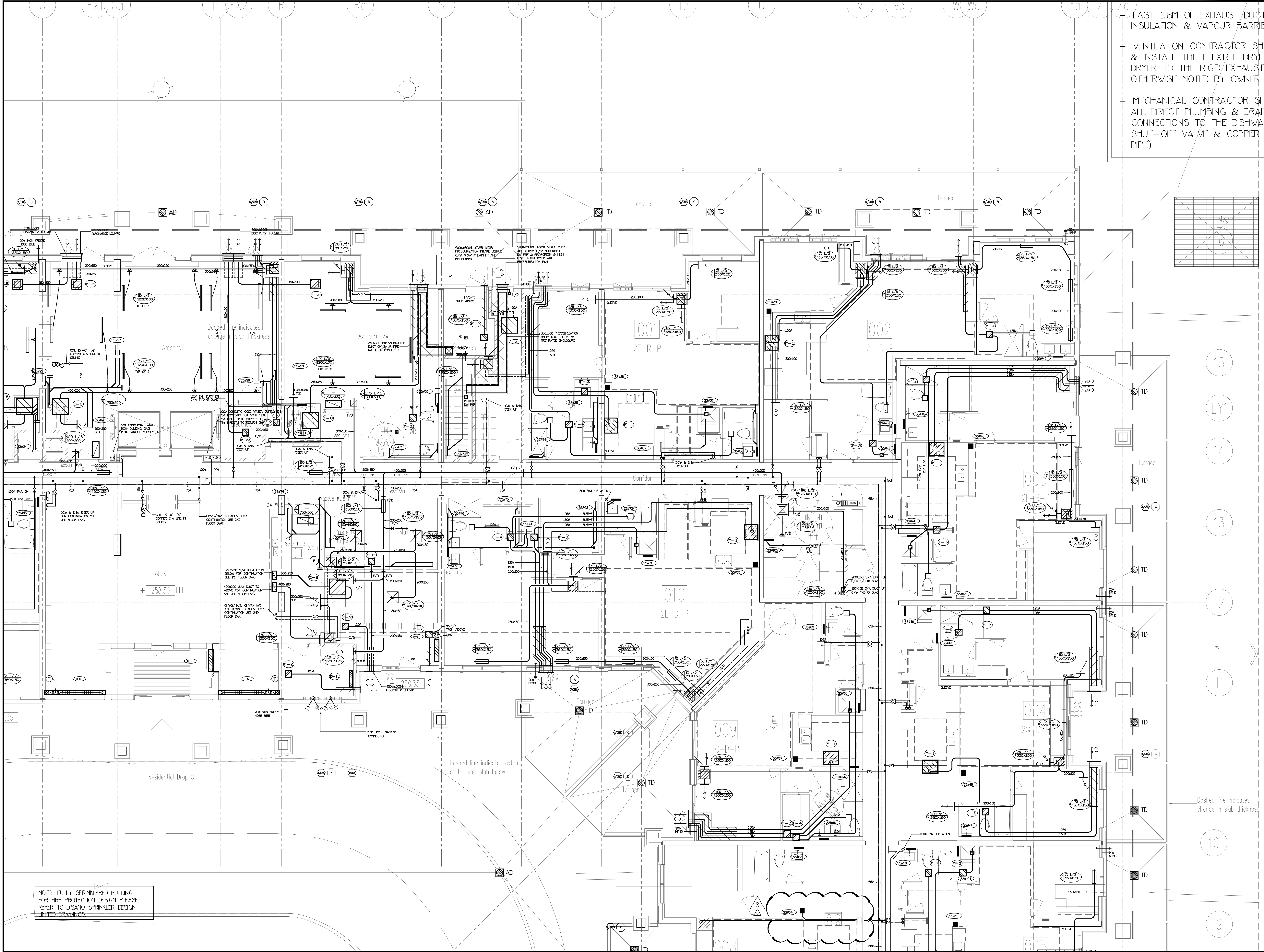
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PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-7
DATE JUNE 2015	PROJECT 14-016	OF 42	



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

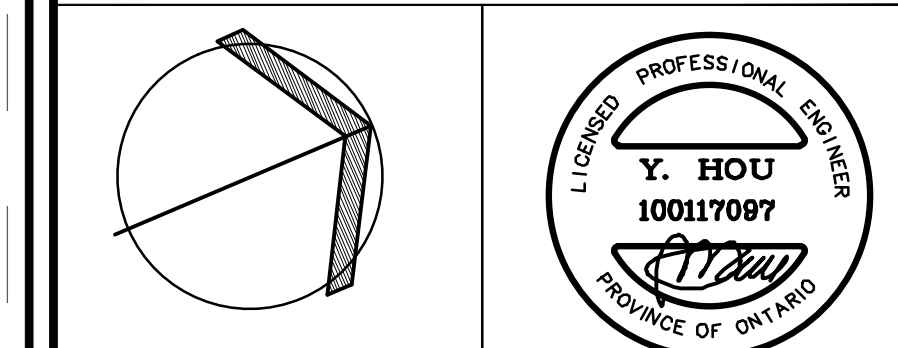
VENTILATION CONTRACTOR SHALL SUPPLY & INSTALL THE FLEXIBLE DRYER HOSE FROM DRYER TO THE RIGID EXHAUST DUCT UNLESS OTHERWISE NOTED BY OWNER

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

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	OF	REVISED AS PER SITE INSTRUCTION P1-3	MAR/02/2017
2	L1	ISSUED FOR PERMIT	FEC/28/2016
1	L1	ISSUED FOR TENDER	MAR/21/2016

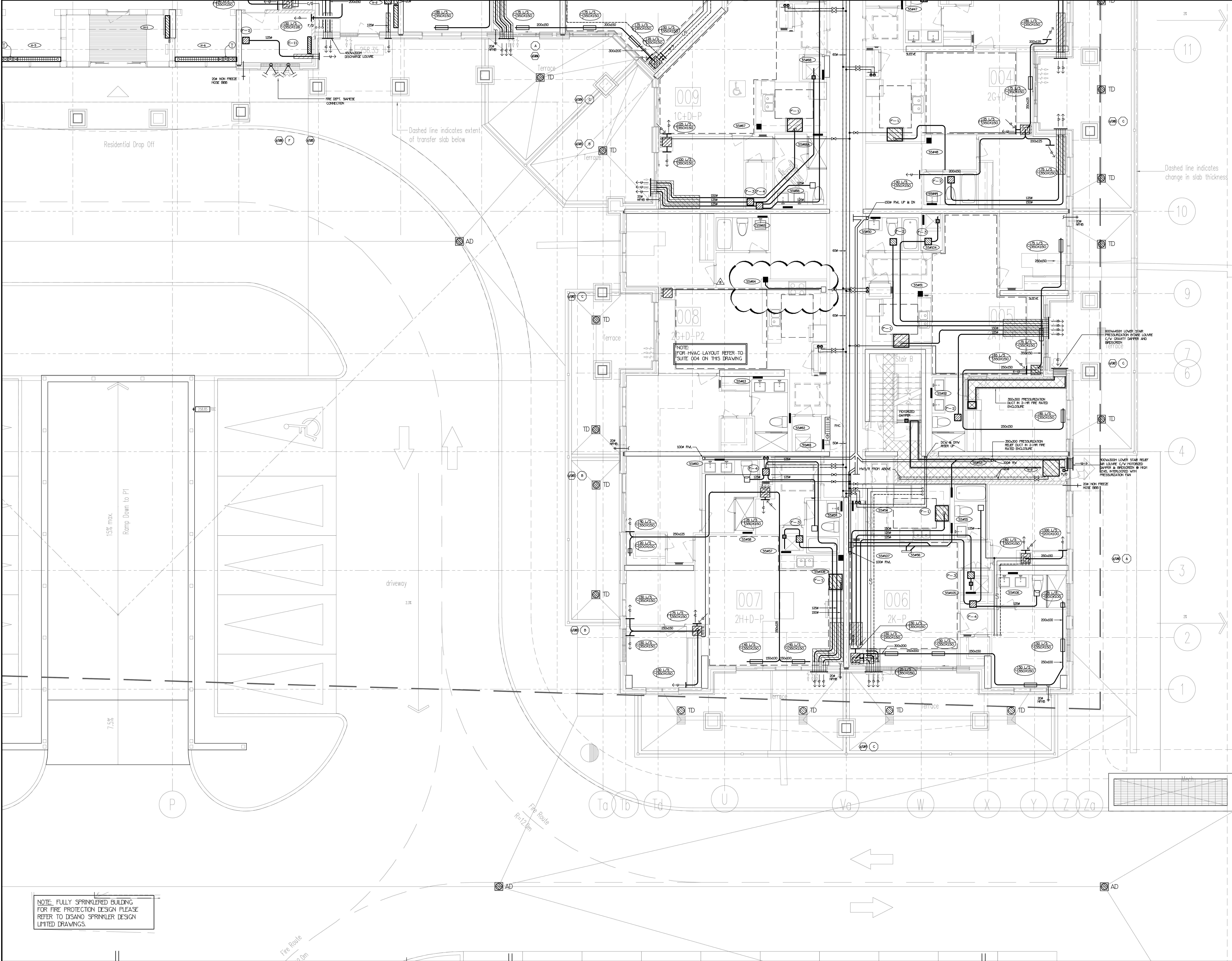
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PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO		
PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC JUNE 2015	CHECKED BT 14-016	SCALE 1:50 DRAWING M-8 OF 42



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 P1-3	MAR/02/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
5	LB	REVISED AS PER SITE INSTRUCTION P1-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
6	LB	REVISED AS PER SITE INSTRUCTION P1-7	SEP/11/2017
7	LB	REVISED AS PER SITE INSTRUCTION P1-14	MAR/14/2018

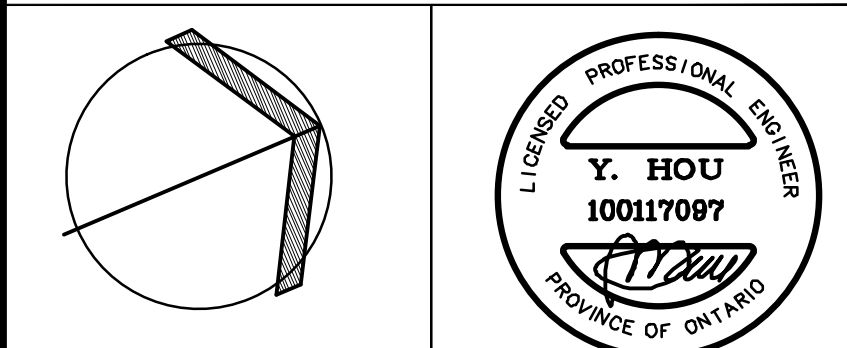
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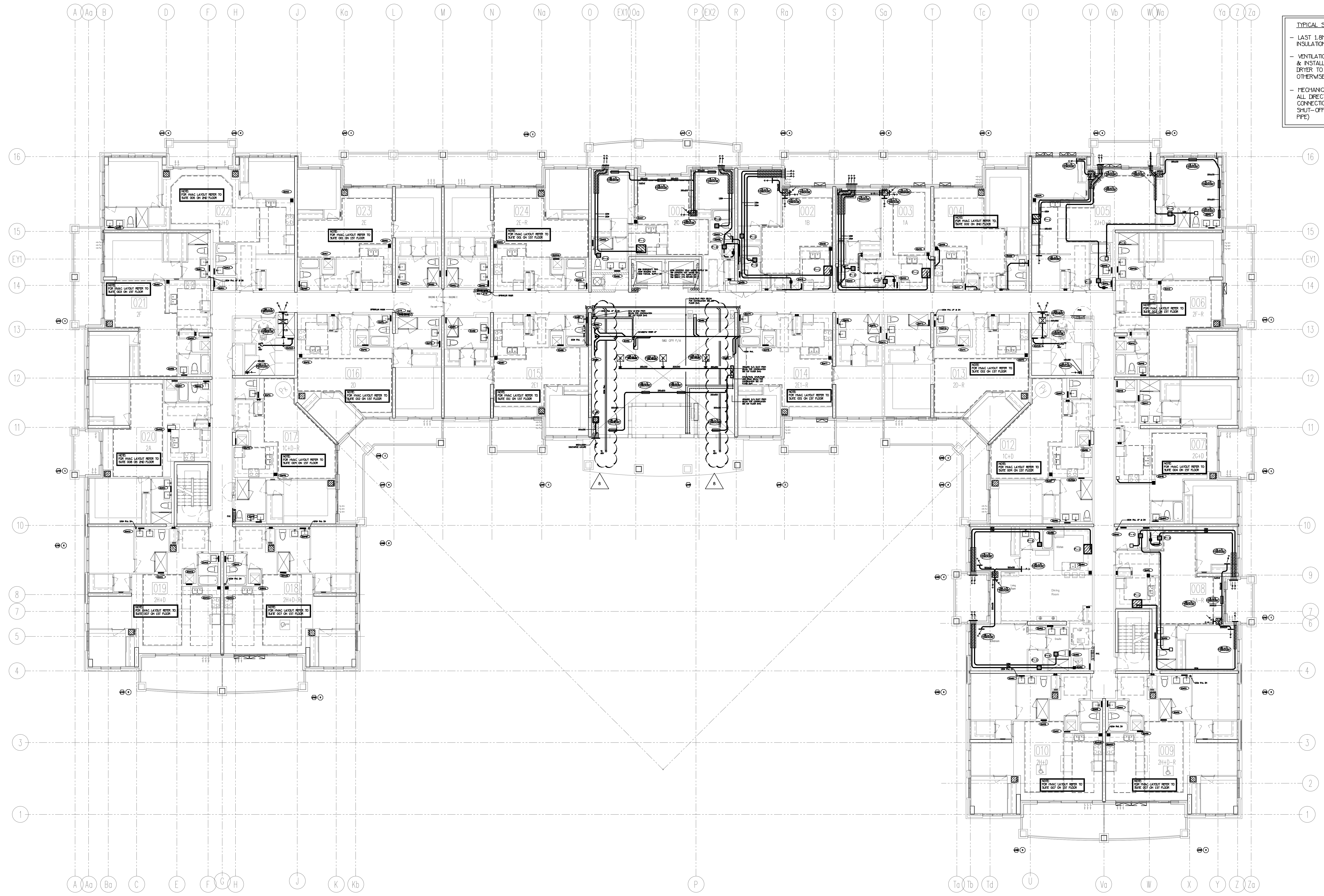
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TITLE 1ST FLOOR LEVEL MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT			
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-9 OF 42
DATE JUNE 2015	PROJECT 14-016		



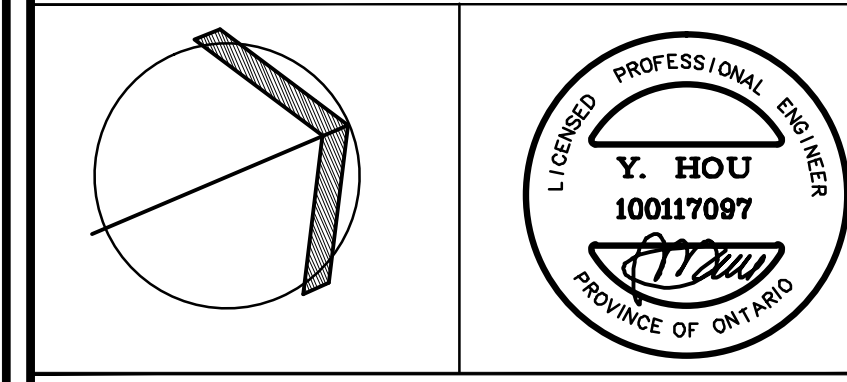
TYPICAL SUITE NOTES:

- 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 DESAND SPRINKLER DESIGN LIMITED DRAWINGS.

NO.	BY	DESCRIPTION	DATE
8	LB	REVISED AS PER SITE INSTRUCTION H-15	APR/08/2018
7	LB	REVISED AS PER SITE INSTRUCTION H-14	MAR/14/2018
6	LB	REVISED AS PER SITE INSTRUCTION H-10	OCT/31/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
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

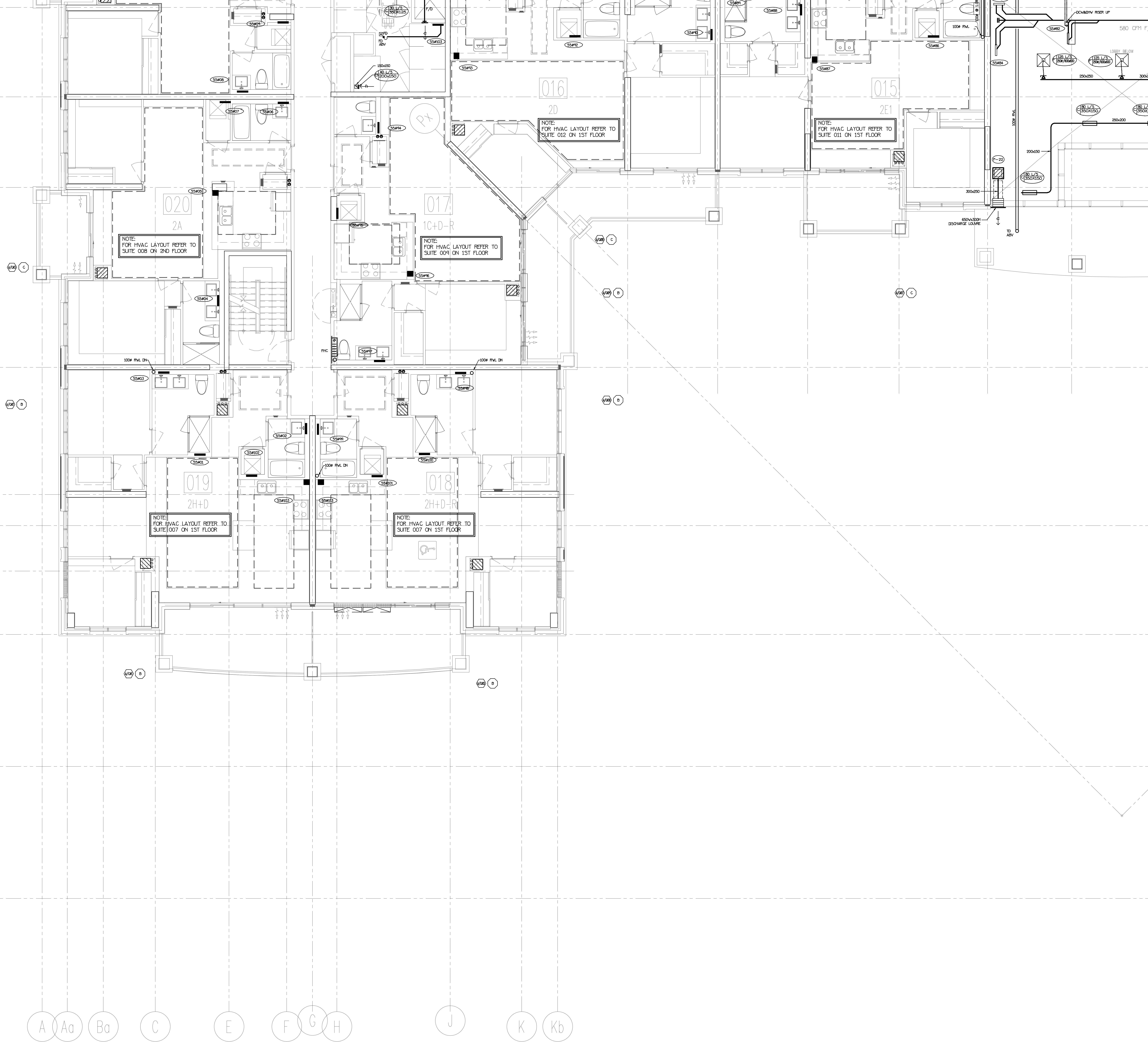
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TITLE 2ND FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:100	
DATE JUNE 2015	PROJECT 14-016	DRAWING M-10	OF 42

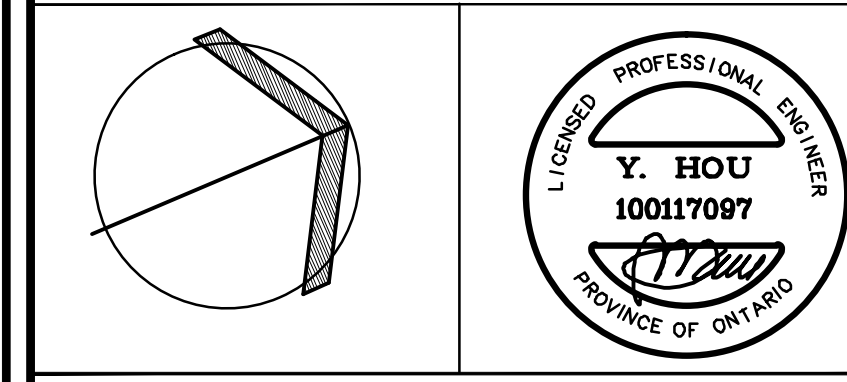
NOTE: FULLY SPRINKLERED BUILDING
FOR FIRE PROTECTION DESIGN PLEASE
REFER TO DESAND SPRINKLER DESIGN
UNITED DRAWINGS.



NO.	BY	DESCRIPTION	DATE
4	LD	REVISED AS PER SITE INSTRUCTION M-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

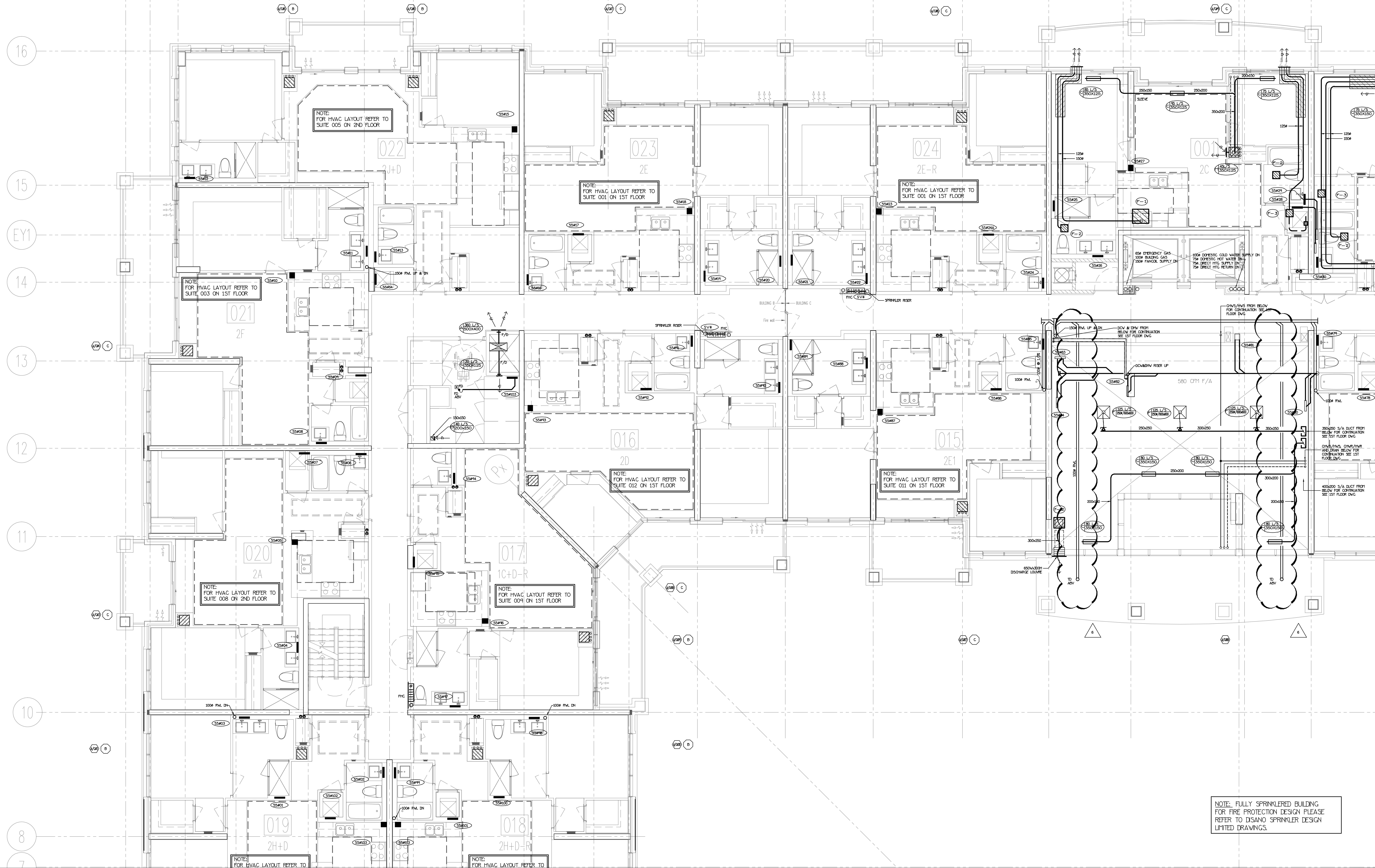
REVISIONS

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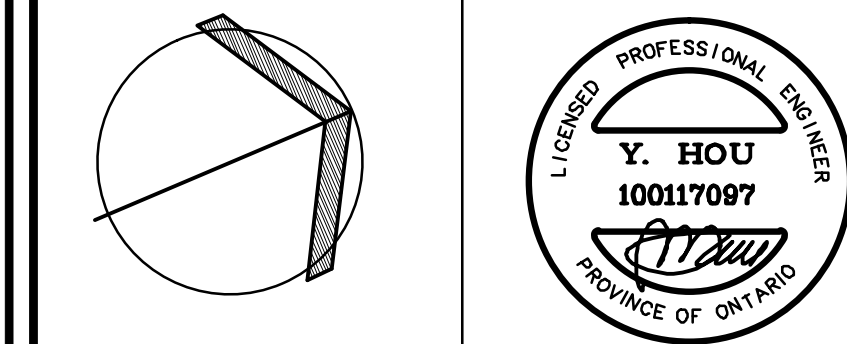
United Engineering Inc.
Mechanical Electrical Consulting Engineers
3045 Keele Street, Suite 105,
Toronto, Ontario, M3J 1W6
Tel: (416) 398 1099, Fax: (416) 398 1933

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	
DATE JUNE 2015	PROJECT 14-016	DRAWING M-11 OF 42	



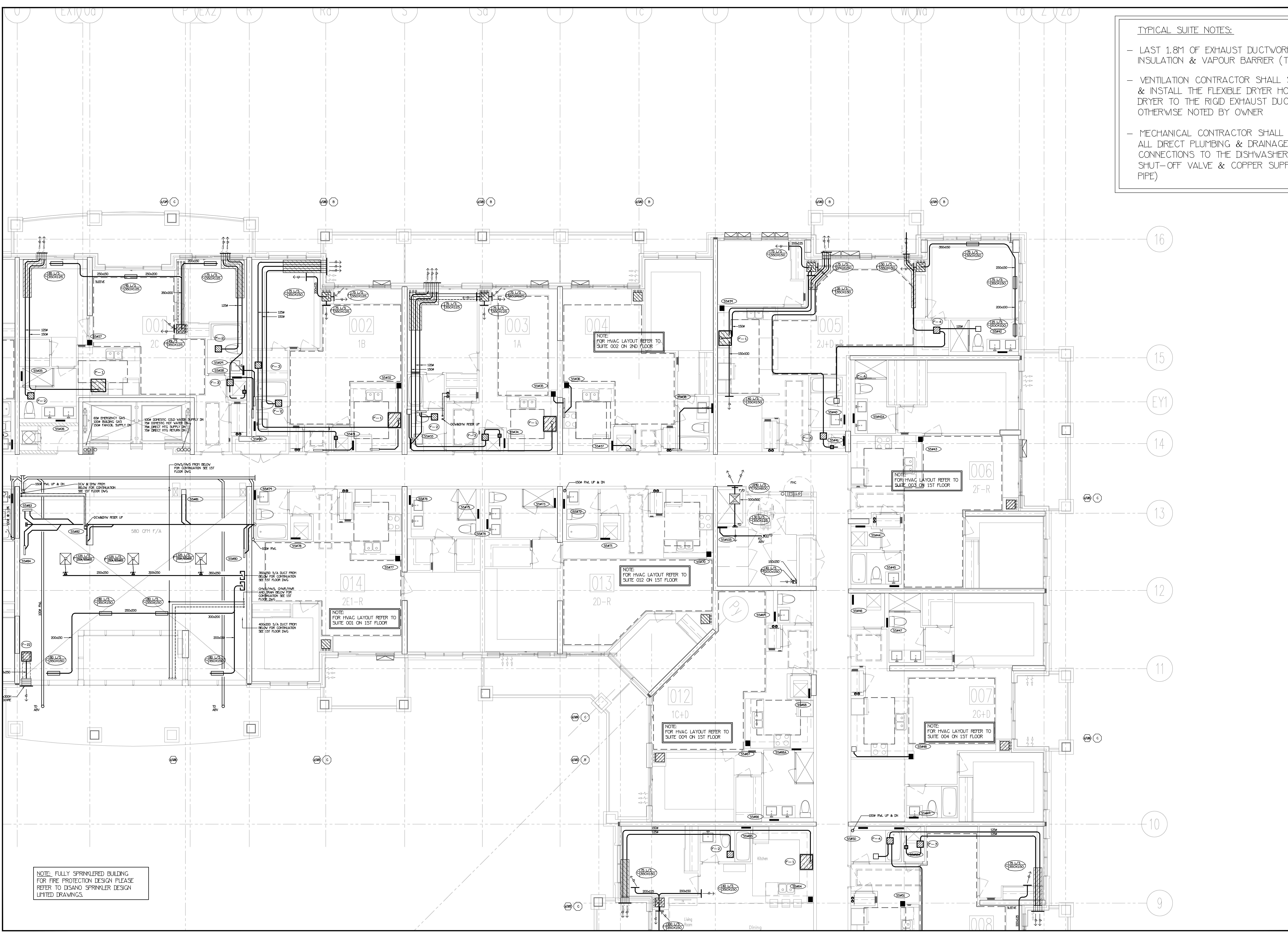
NO.	BY	DESCRIPTION	DATE
8	LB	ISSUED FOR SITE INSTRUCTION M-15	APR/06/2018
5	LB	ISSUED FOR SITE INSTRUCTION M-5	AUG/09/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LB	ISSUED AS PER SITE INSTRUCTION M-4	MAY/16/2017
2	LB	ISSUED FOR PERMIT	DEC/28/2016
1	LB	ISSUED FOR TENDER	MAY/21/2016

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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 OF 42
DATE JUNE 2015	PROJECT 14-016		

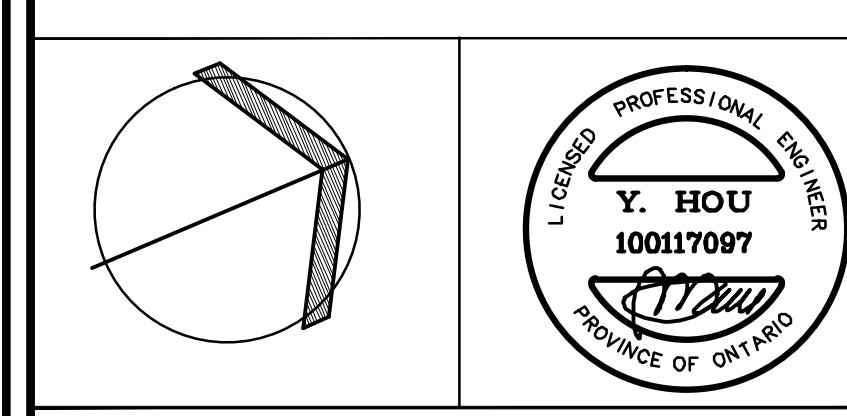


- TYPICAL SUITE NOTES:
- LAST 1.8M OF EXHAUST DUCTWORK INSULATION & VAPOUR BARRIER (T
 - VENTILATION CONTRACTOR SHALL & INSTALL THE FLEXIBLE DRYER HO DRYER TO THE RIGID EXHAUST DUC OTHERWISE NOTED BY OWNER
 - MECHANICAL CONTRACTOR SHALL ALL DIRECT PLUMBING & DRAINAGE CONNECTIONS TO THE DISHWASHER SHUT-OFF VALVE & COPPER SUPP PIPE)

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

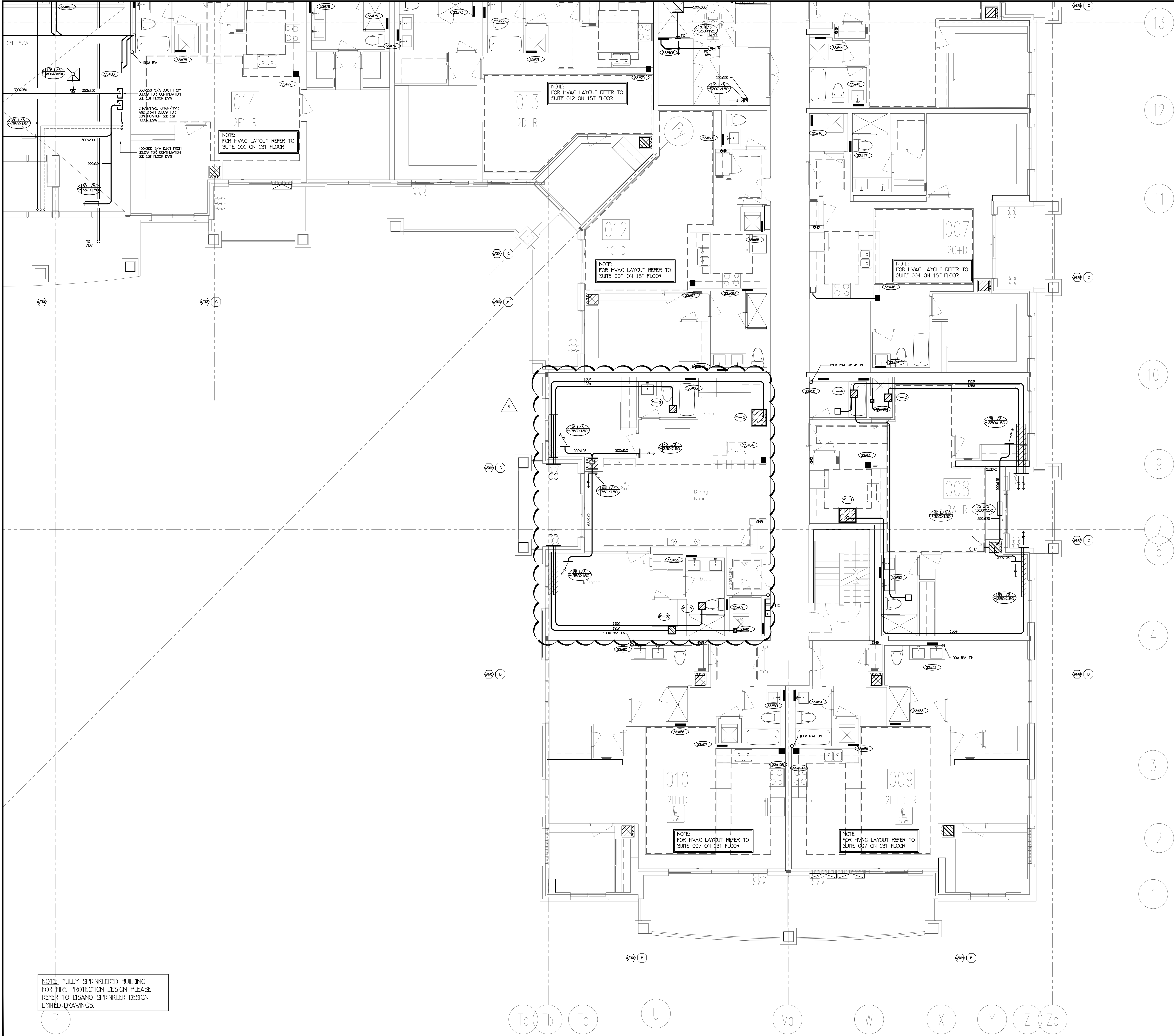
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TITLE 2ND FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-13
DATE JUNE 2015	PROJECT 14-016	OF 42	



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

NO.	BY	DESCRIPTION	DATE
5	LD	ISSUED AS PER SITE INSTRUCTION T1-14	MAR/14/2018
4	LD	ISSUED AS PER SITE INSTRUCTION T1-5	AUG/01/2017
3	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LD	ISSUED FOR PERMIT	DEC/28/2016
1	LD	ISSUED FOR TENDER	MAR/21/2016

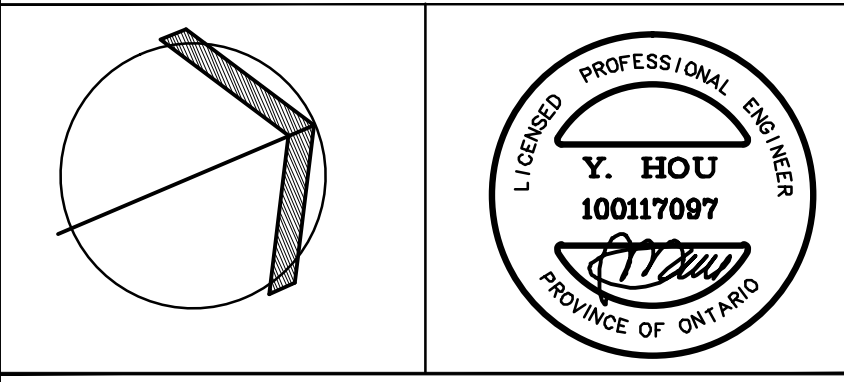
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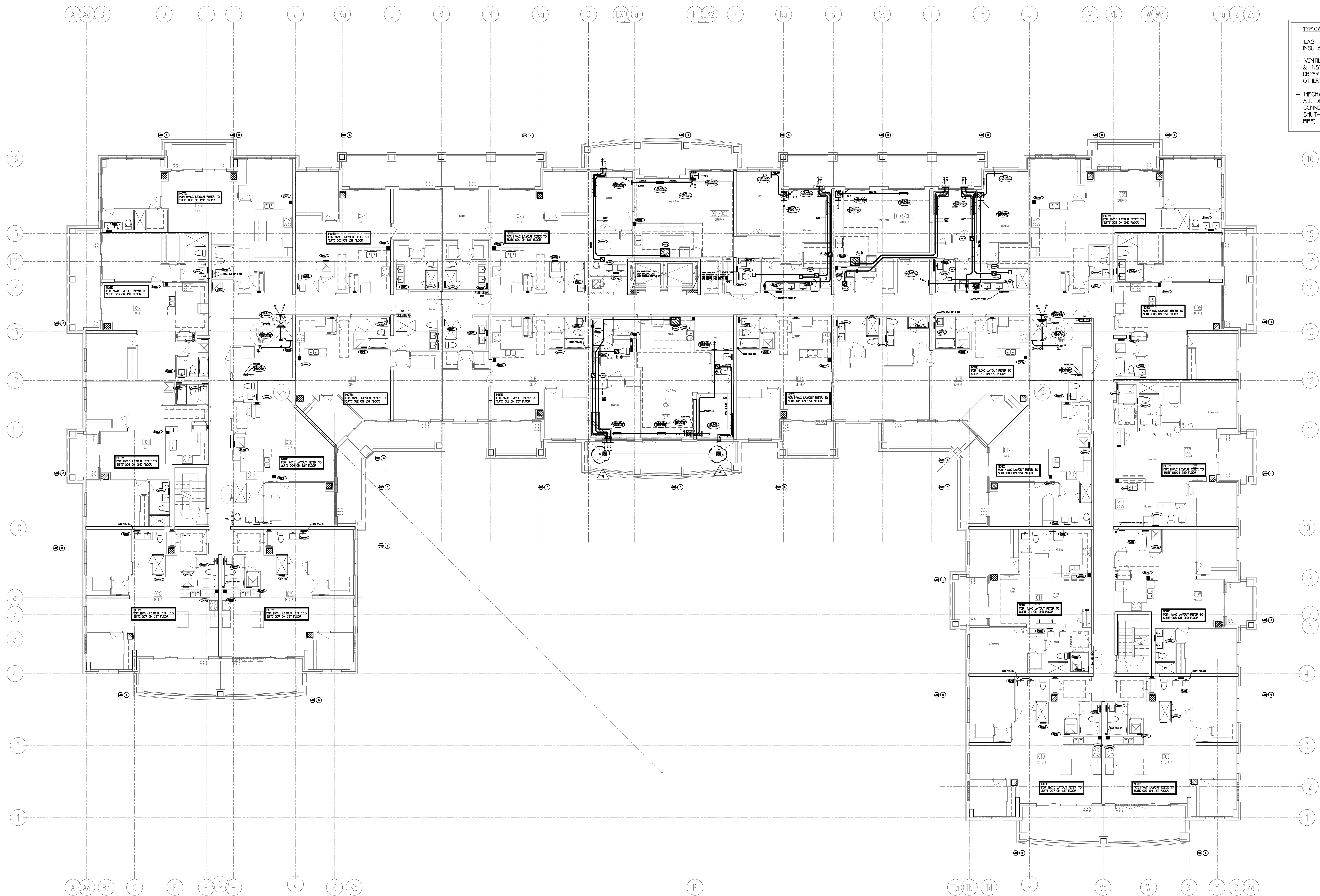
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TITLE 2ND FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	
DATE JUNE 2015	PROJECT 14-016	DRAWING M-14 OF 42	



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
1	LD	ISSUED FOR TENDER	MAR/21/2016
2	LD	ISSUED FOR PERMIT	DEC/28/2016
3	LD	ISSUED AS PER SITE INSTRUCTION P1-4	MAY/16/2017
4	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
5	LD	REVISED AS PER SITE INSTRUCTION P1-5	AUG/04/2017
6	LD	REVISED AS PER SITE INSTRUCTION P1-6	AUG/25/2017
7	LD	REVISED AS PER SITE INSTRUCTION P1-10	OCT/31/2017
8	LD	REVISED AS PER SITE INSTRUCTION P1-14	MAR/14/2018
9	LD	REVISED AS PER SITE INSTRUCTION P1-15	APR/05/2018

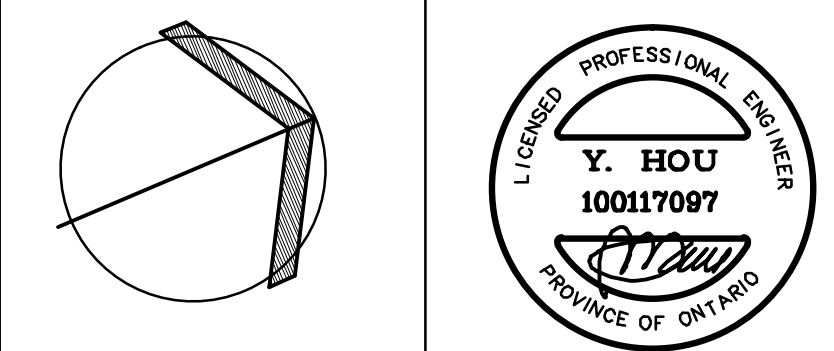
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TITLE	
PART 3RD AND 4TH FLOORS MECHANICAL	
PROJECT	
25 BAKER HILL BLVD. ROYAL PINE HOMES	
STOUFFVILLE, ONTARIO	
PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN	CHECKED
GC	BT
DATE	SCALE
JUNE 2015	1:100
PROJECT	DRAWING
14-016	M-15
	OF 42

NO.	BY	DESCRIPTION	DATE
5	LB	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017
4	LD	REVISED AS PER SITE INSTRUCTION H-5	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

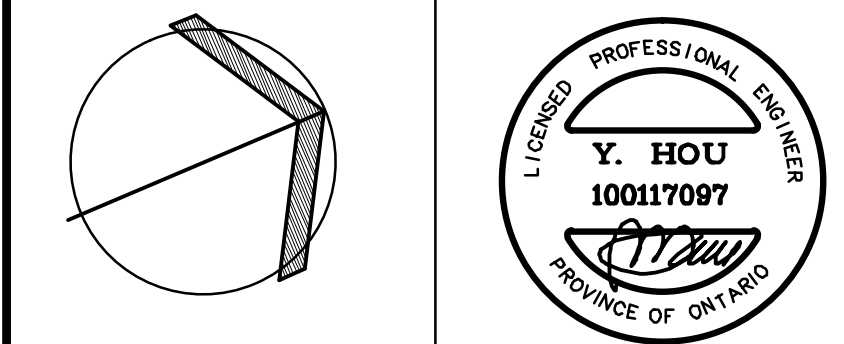
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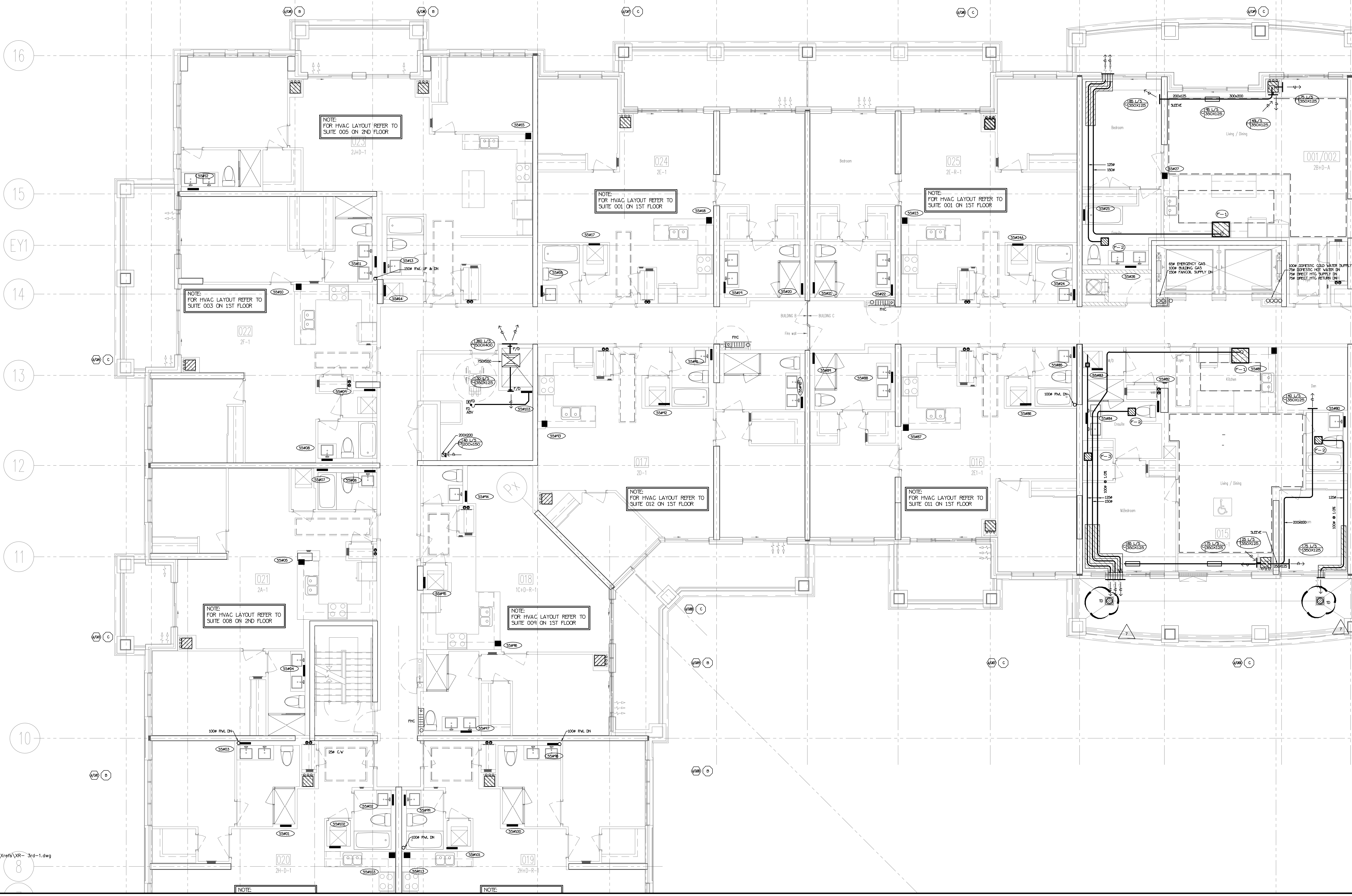
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TITLE
**PART 3RD AND 4TH FLOORS
MECHANICAL**

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-16
		OF 42



Xref E:\2014\14-016 25 Baker Hill Blvd\Mech\Xrefs\VR-3rd-1.dwg

NO.	BY	DESCRIPTION	DATE
7	LB	REVISED AS PER SITE INSTRUCTION P-15	APR/08/2018
6	LB	REVISED AS PER SITE INSTRUCTION P-6	AUG/25/2017
5	LB	REVISED AS PER SITE INSTRUCTION P-5	AUG/04/2017
4	LB	ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LB	ISSUED FOR SITE INSTRUCTION P-4	MAY/17/2017
1	LB	ISSUED FOR PERMIT	DEC/28/2016
1	LB	ISSUED FOR TENDER	MAR/21/2016

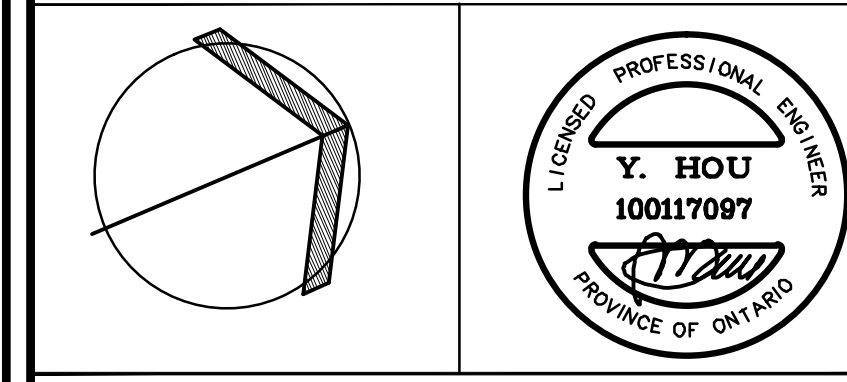
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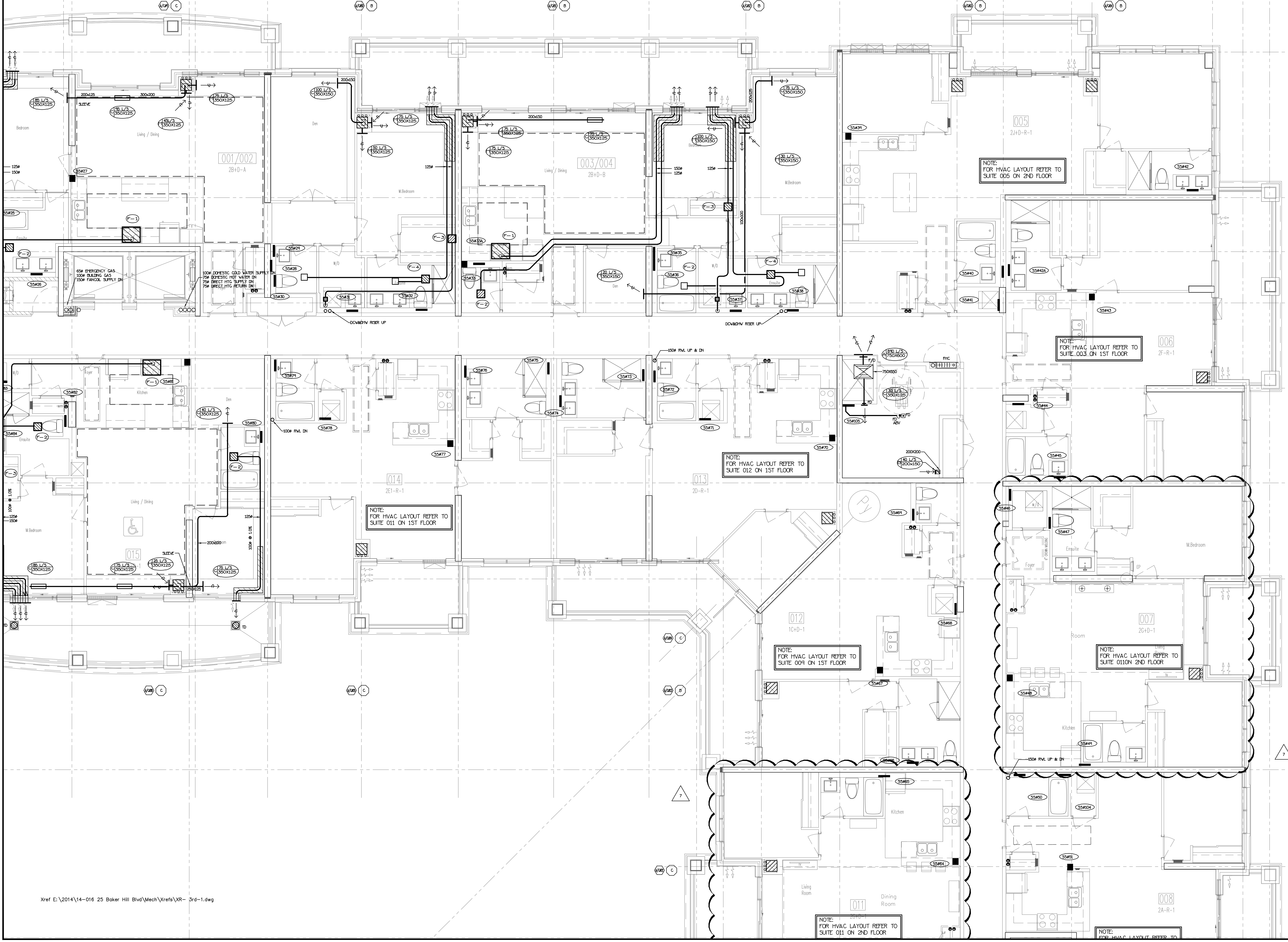
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TITLE PART 3RD FLOORS PLAN MECHANICAL		
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO		
PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE 1:50
DATE JUNE 2015	PROJECT 14-016	DRAWING M-17 OF 42

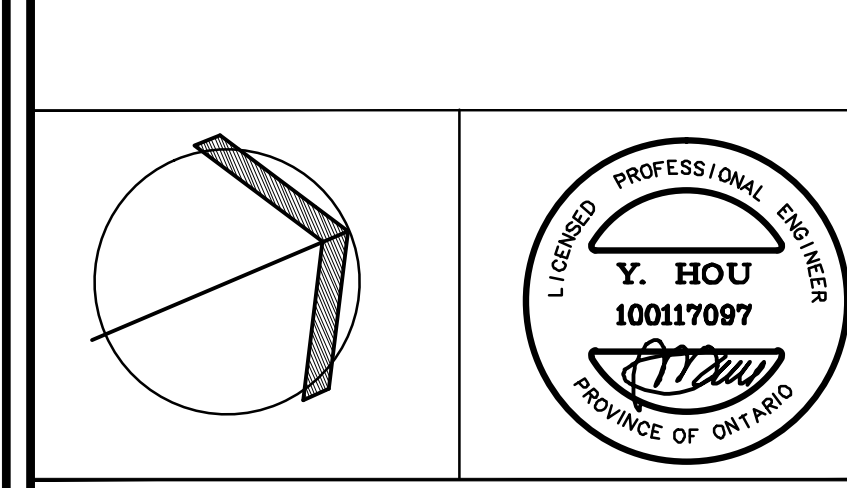
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NO.	BY	DESCRIPTION	DATE
7	LB	REVISED AS PER SITE INSTRUCTION H-14	MAR/14/2018
6	LB	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
4	LB	ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LB	PROGRESS FOR CONSTRUCTION	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

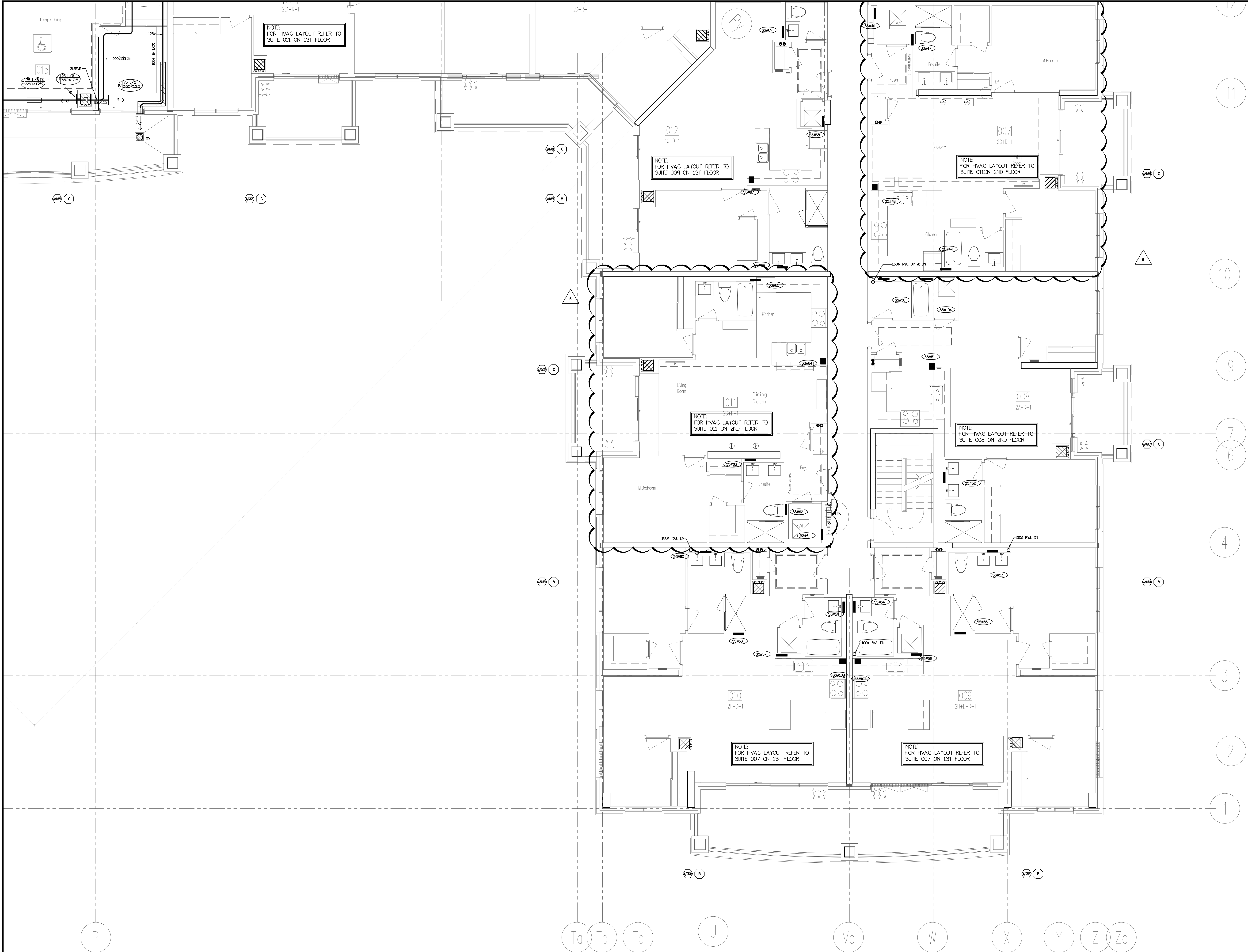
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TITLE PART 3RD FLOORS PLAN MECHANICAL		
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO		
PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE 1:50
DATE JUNE 2015	PROJECT 14-016	DRAWING M-18 OF 42



Xref: E:\2014\14-016 25 Baker Hill Blvd\Mech\Xrefs\XR- 3rd-1.dwg

6	LB	REVISED AS PER SITE INSTRUCTION H-14	MAR/14/2018
5	LB	REVISED AS PER SITE INSTRUCTION H-8	AUG/25/2017
4	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LB	ISSUED FOR PERMIT	DEC/28/2016
1	LB	ISSUED FOR TENDER	MAR/21/2016
NO.	BY	DESCRIPTION	DATE

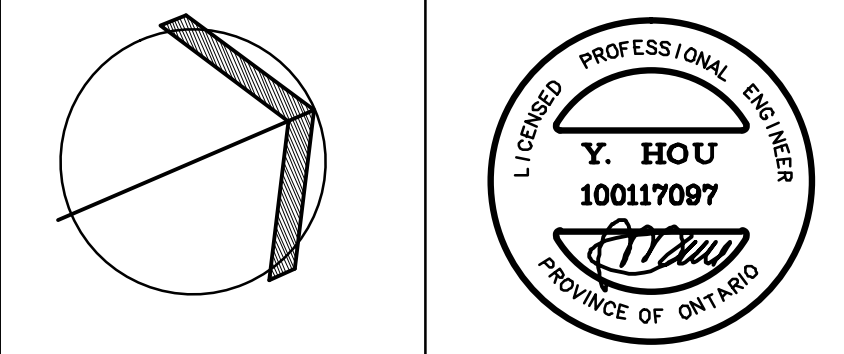
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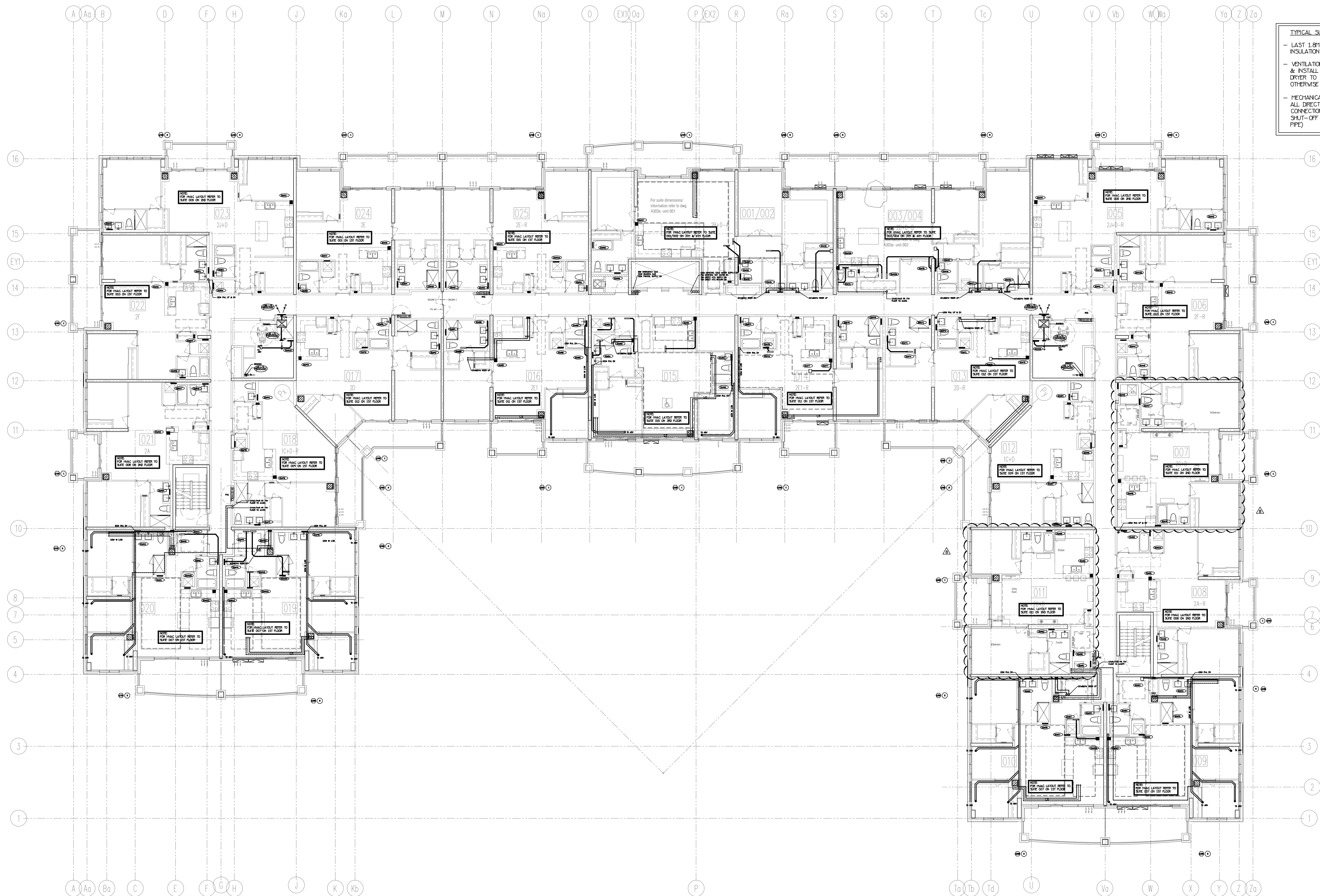
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TITLE		
PART 3RD FLOORS PLAN MECHANICAL		
PROJECT		
25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO		
PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN	GC	CHECKED BT
DATE	JUNE 2015	SCALE 1:50
PROJECT		DRAWING
14-016		M-19
		OF 42



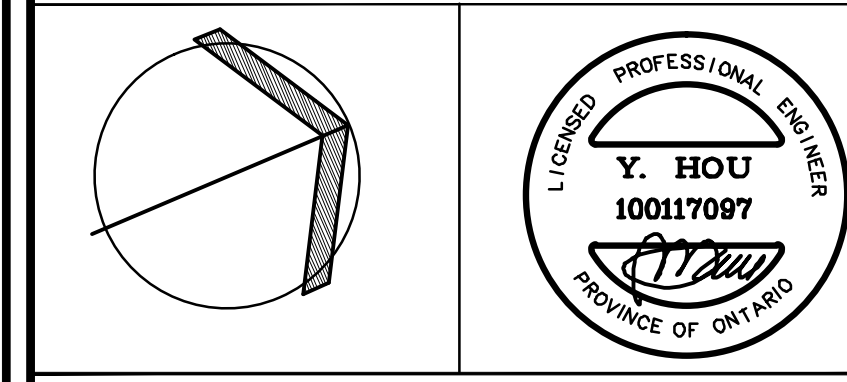
TYPICAL SUITE NOTES:

- LAST 1.8M OF EXHAUST DUCTWORK C/W INSULATION & VAPOUR BARRIER (TYPICAL)
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NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DS&NO SPRINKLER DESIGN LIMITED DRAWINGS.

NO.	BY	DESCRIPTION	DATE
8	LB	REVISED AS PER SITE INSTRUCTION H-14	MAR/14/2018
7	LB	REVISED AS PER SITE INSTRUCTION H-10	OCT/31/2017
6	LB	REVISED AS PER SITE INSTRUCTION H-6	AUG/25/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5 ISSUED FOR CONSTRUCTION	AUG/04/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	LB	REVISED 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

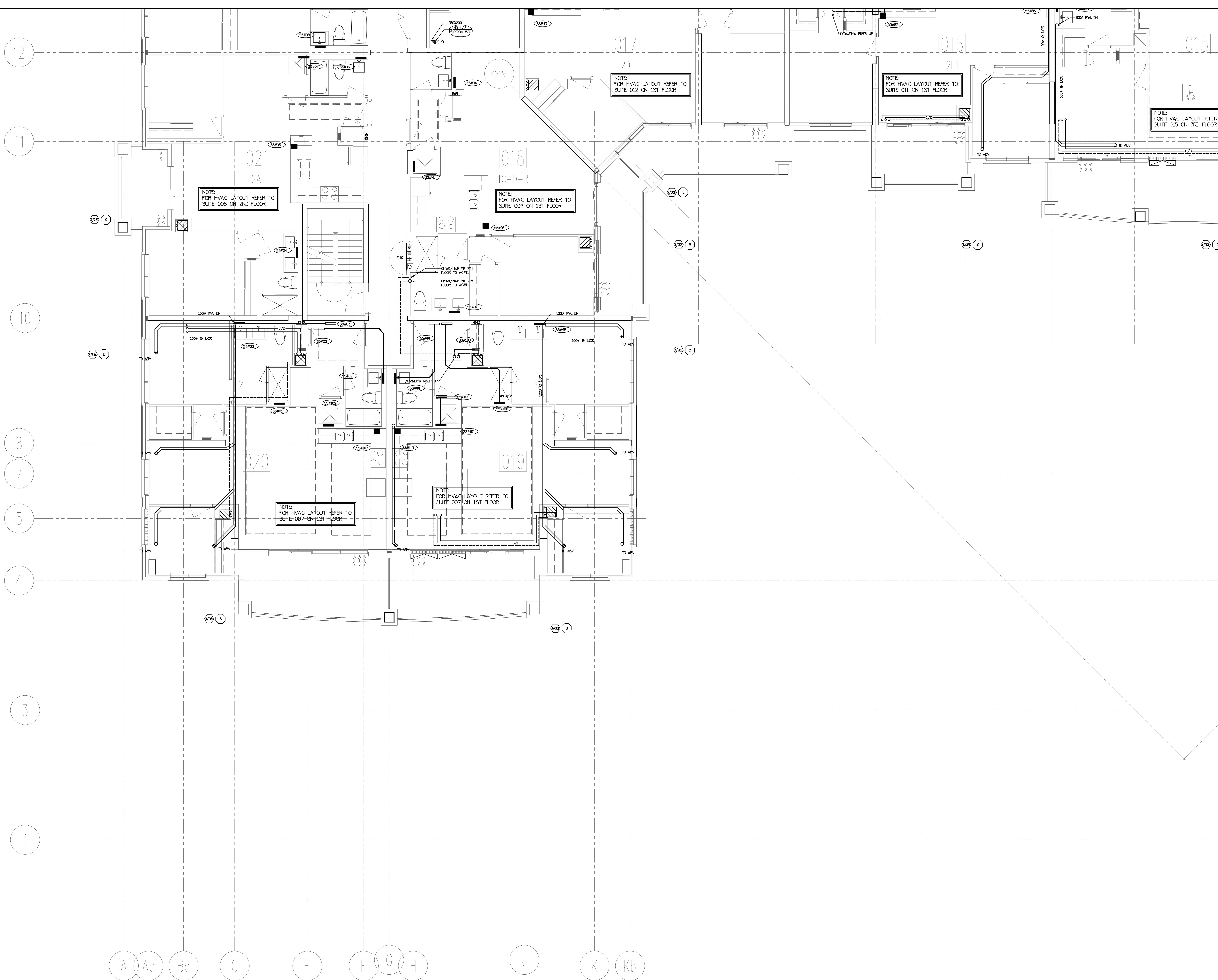
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TITLE		PART 5TH FLOORS PLAN MECHANICAL	
PROJECT		25 BAKER HILL BLVD. ROYAL PINE HOMES	
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN	GC	CHECKED	BT
DATE	JUNE 2015	PROJECT	14-016
SCALE		1:100	
DRAWING		M-20	
OF		42	

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 T1-8	AUG/25/2017
4	LB	REVISED AS PER SITE INSTRUCTION T1-5 ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016

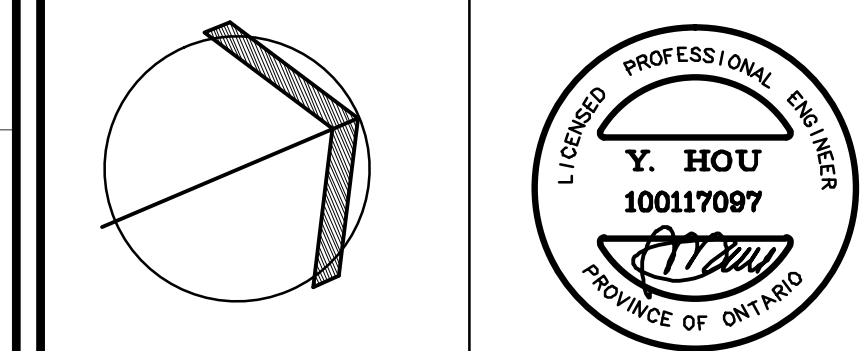
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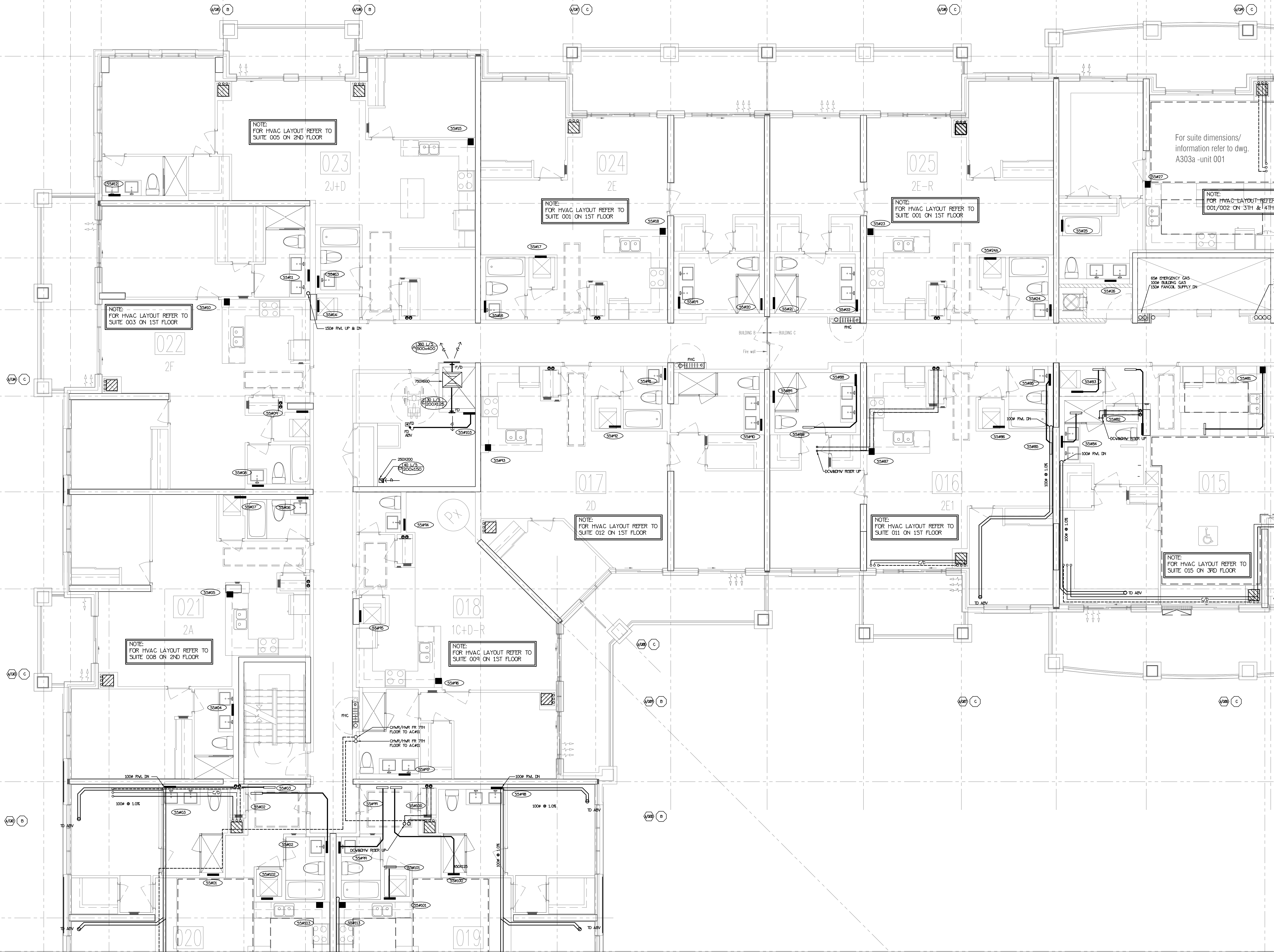
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3645 Keele Street, Suite 105
Toronto, Ontario, M3J 1M6
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TITLE PART 6TH FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT			
DRAWN GC	CHECKED BT	SCALE 1:50	
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
LIMITED 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

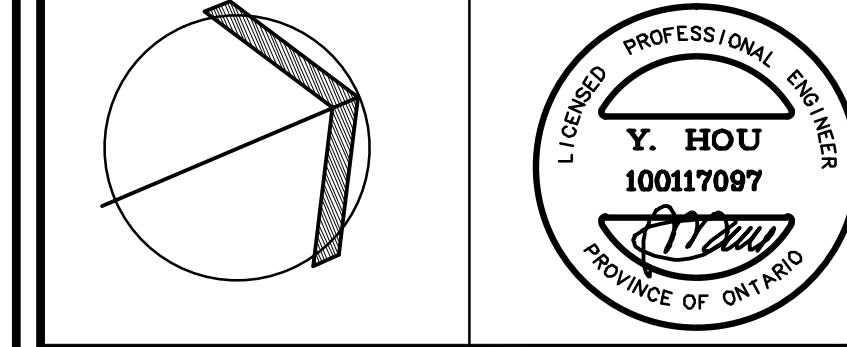
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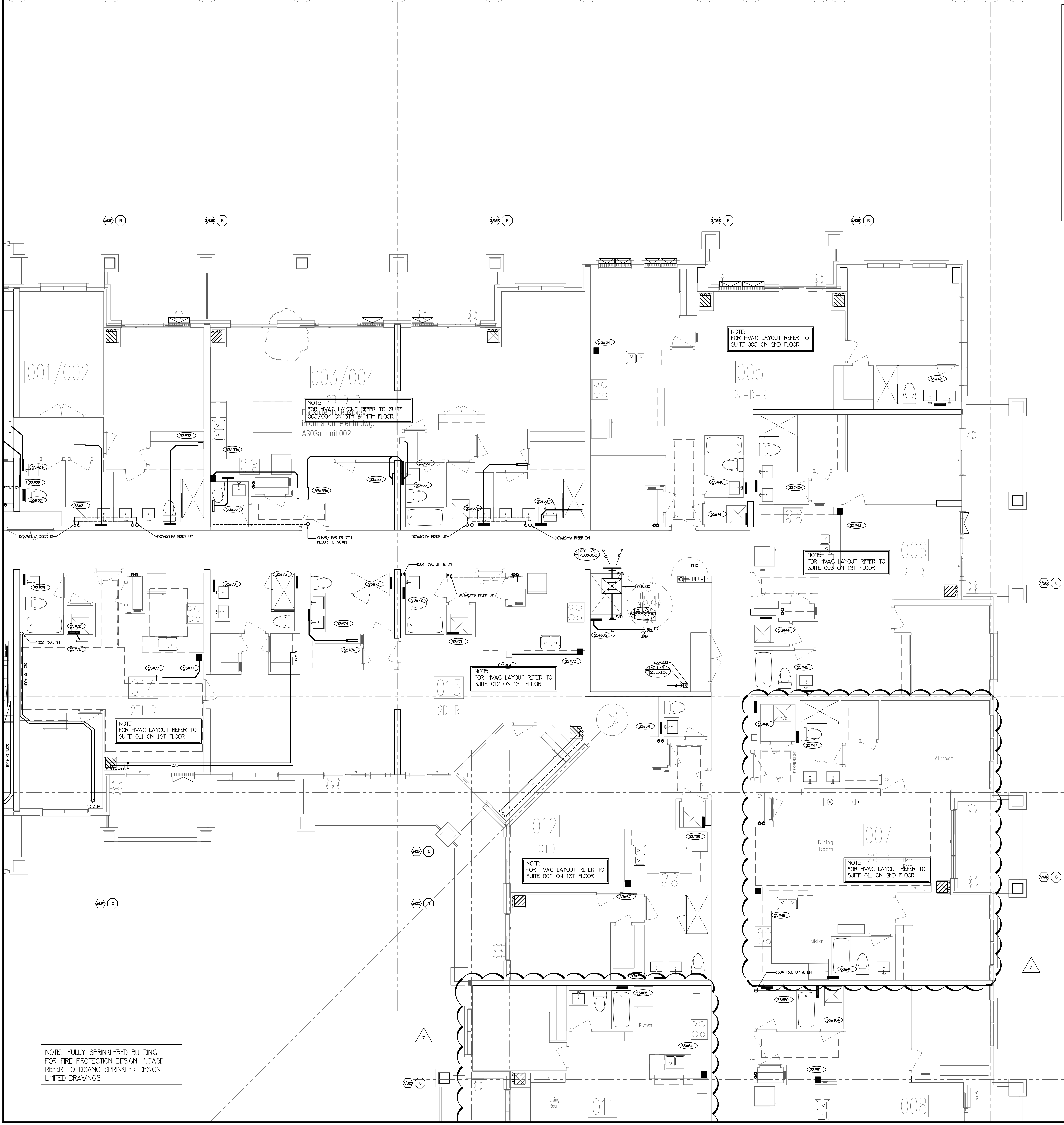
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TITLE PART 5TH FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	
DATE JUNE 2015	PROJECT 14-016	DRAWING M-22	
		OF 42	



TYPICAL SUITE NOTES:

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NO.	BY	DESCRIPTION	DATE
7	LB	REVISED AS PER SITE INSTRUCTION H-14	MAR/14/2018
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	MAY/16/2017
3	LB	ISSUED AS PER SITE INSTRUCTION H-4	MAY/16/2017
2	LB	ISSUED FOR PERMIT	DEC/28/2016
1	LB	ISSUED FOR TENDER	MAR/21/2016

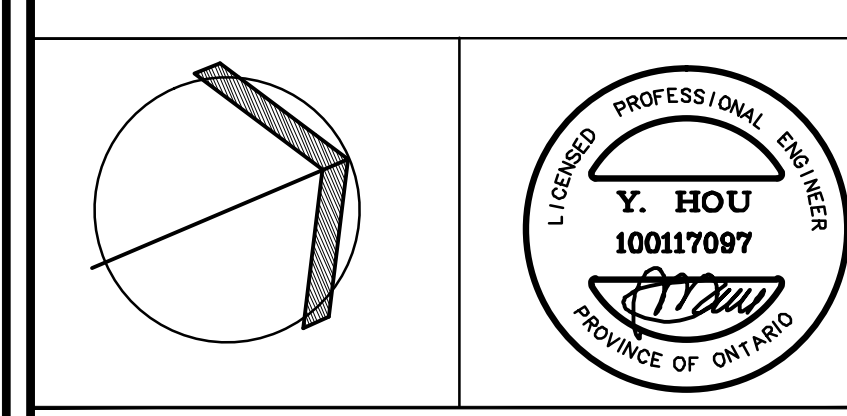
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TITLE PART 5TH FLOORS PLAN MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE 1:50	DRAWING M-23
DATE JUNE 2015	PROJECT 14-016	OF 42	

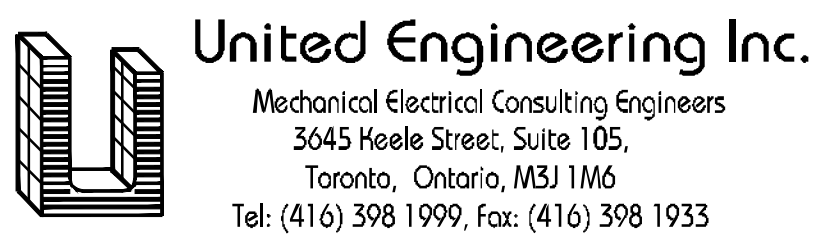


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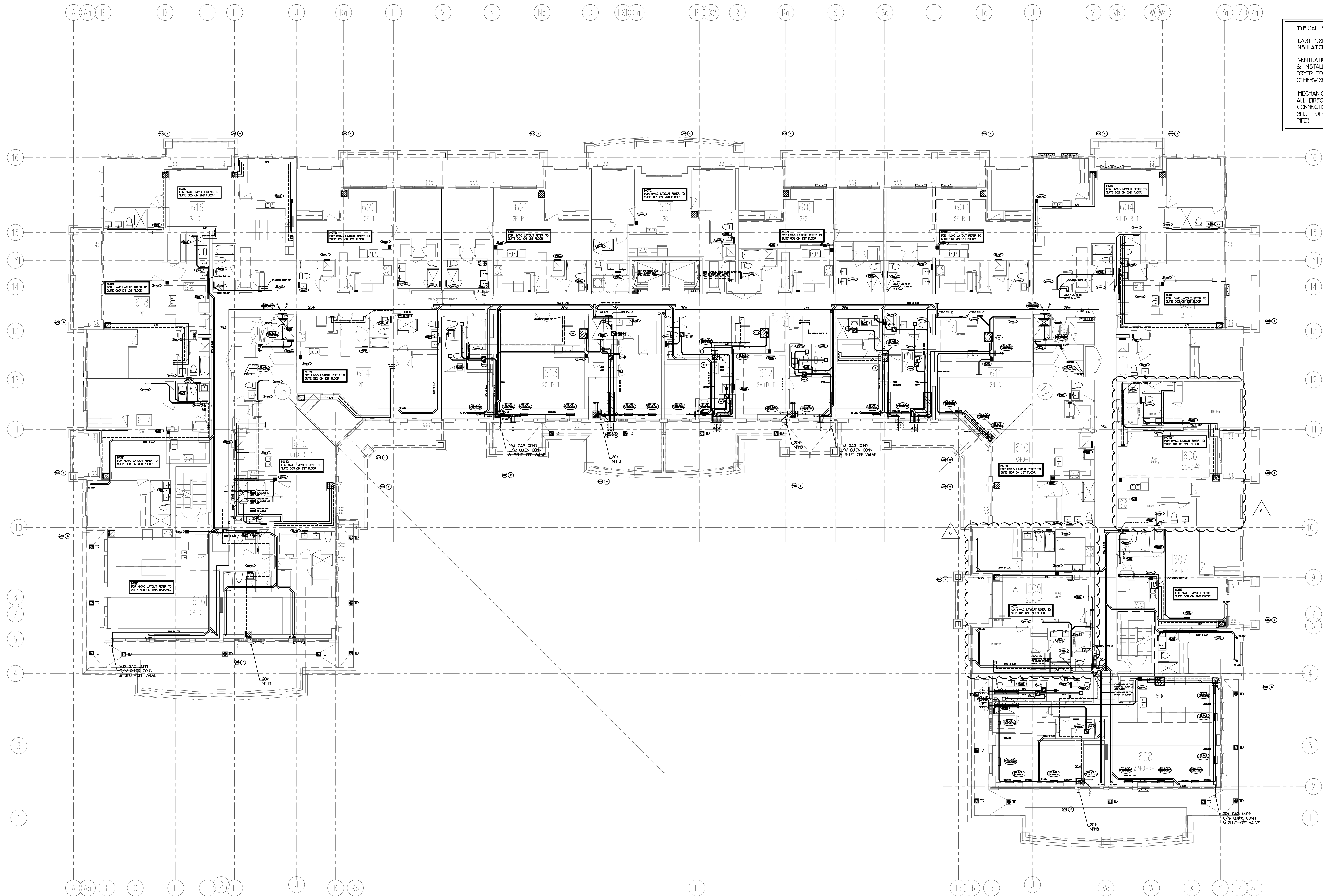
TITLE

**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



TYPICAL SUITE NOTES:

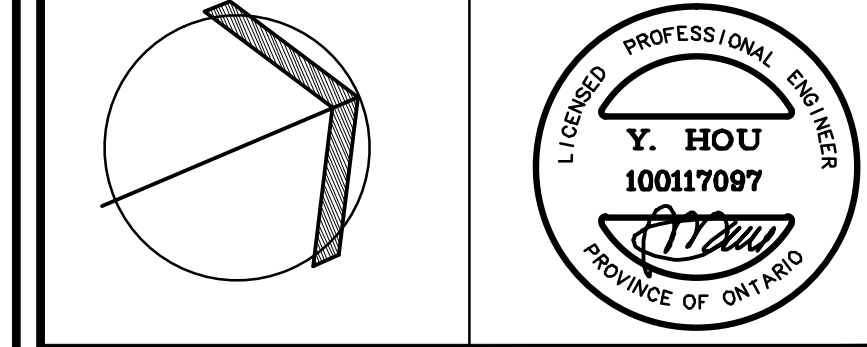
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- VENTILATION CONTRACTOR SHALL SUPPLY & INSTALL THE FLEXIBLE DRYER HOSE FROM DRYER TO THE RIGID EXHAUST DUCT UNLESS OTHERWISE NOTED BY OWNER
- MECHANICAL CONTRACTOR SHALL MAKE ALL DIRECT PLUMBING & DRAINAGE CONNECTIONS TO THE DISHWASHER (C/V SHUT-OFF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

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

NO.	BY	DESCRIPTION	DATE
6	LB	REVISED AS PER SITE INSTRUCTION H-14	MAR/14/2018
5	LB	REVISED AS PER SITE INSTRUCTION H-10	OCT/31/2017
4	LD	REVISED AS PER SITE INSTRUCTION H-5	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

NO.	BY	DESCRIPTION	DATE
6	LB	REVISED AS PER SITE INSTRUCTION H-14	MAR/14/2018
5	LB	REVISED AS PER SITE INSTRUCTION H-10	OCT/31/2017
4	LD	REVISED AS PER SITE INSTRUCTION H-5	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

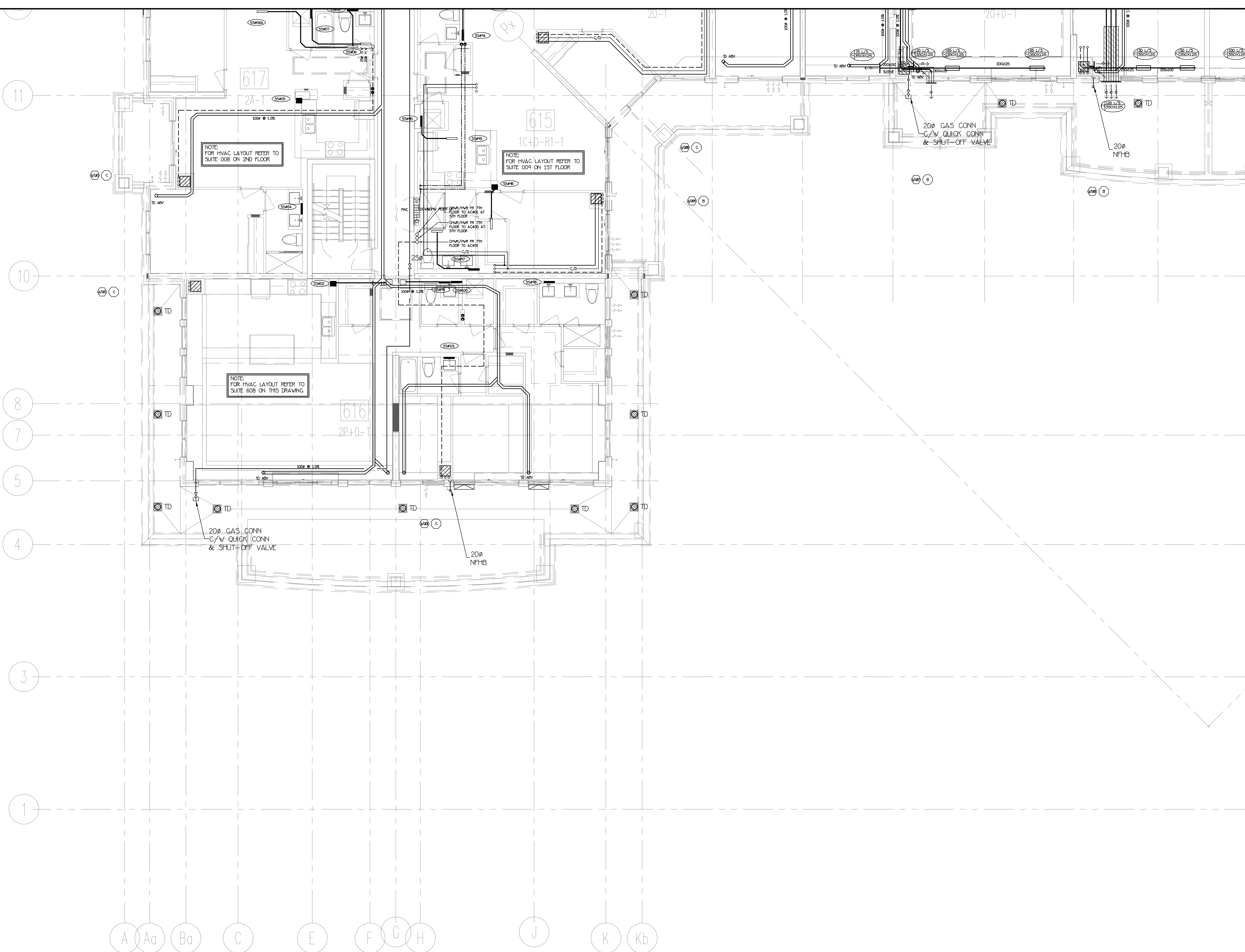
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TITLE		PART 6TH FLOORS PLAN MECHANICAL	
PROJECT		25 BAKER HILL BLVD. ROYAL PINE HOMES	
LOCATION		STOUFFVILLE, ONTARIO	
PROPOSED RESIDENTIAL DEVELOPMENT			
DRAWN	CHECKED	BT	SCALE: 1:100
DATE	PROJECT	DRAWING	M-25
JUNE 2015	14-016	OF	42

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



NO.	BY	DESCRIPTION	DATE
4	LD	REVISED AS PER SITE INSTRUCTION M-5 ISSUED FOR CONSTRUCTION	AUG/04/2017
3	LD	PROGRESS FOR CONSTRUCTION	JUL/16/2017
2	LD	ISSUED FOR PERMIT	DEC/28/2006
1	LD	ISSUED FOR TENDER	MAR/21/2006

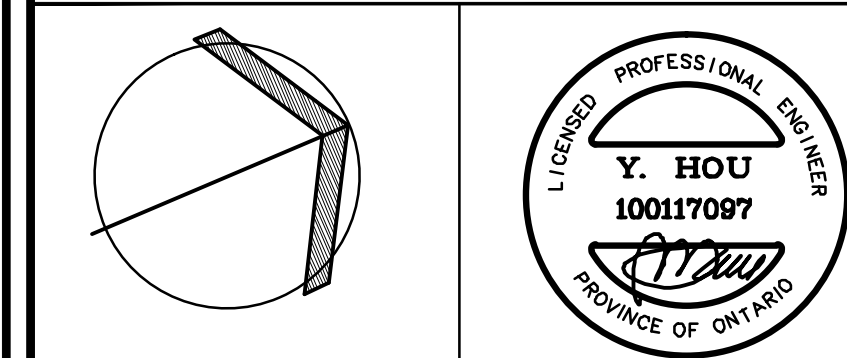
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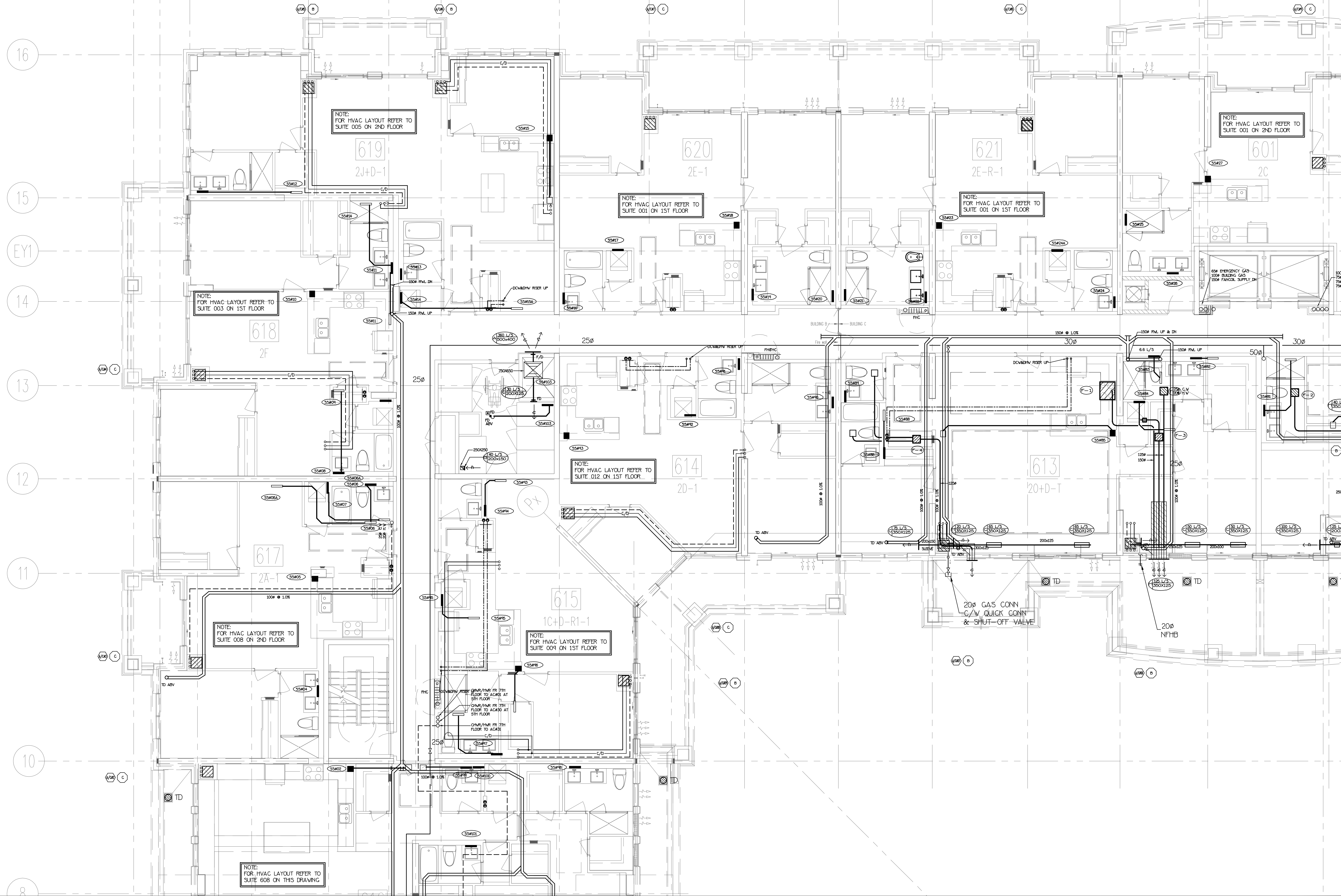
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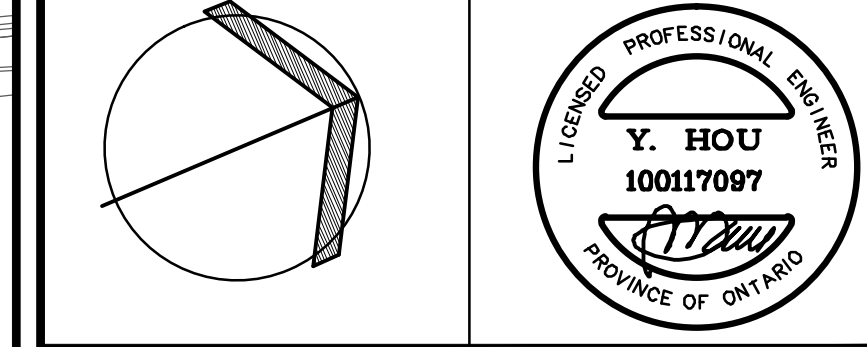
TITLE PART 6TH FLOORS PLAN MECHANICAL		
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE 1:50
DATE JUNE 2015	PROJECT 14-016	DRAWING M-26 OF 42

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



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

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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
DATE	JUNE 2015	PROJECT	14-016
		DRAWING	M-27
		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
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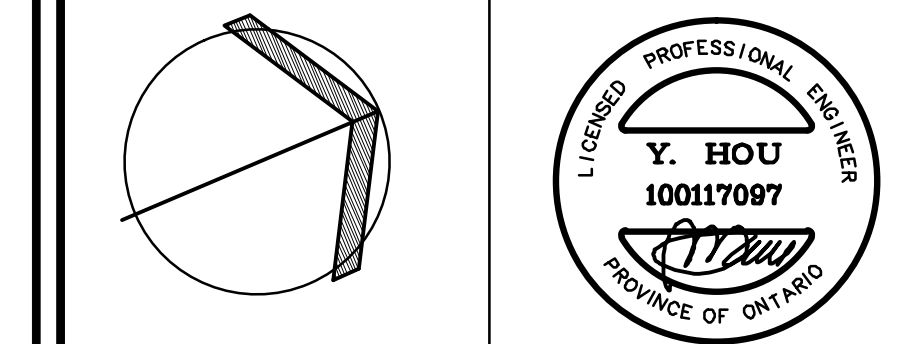
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4	LD	REVISED AS PER SITE INSTRUCTION #1-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
3	LD	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LH	ISSUED FOR PERMIT	DEC/28/2016
1	LH	ISSUED FOR TENDER	MAR/21/2016
NO.	BY	DESCRIPTION	DATE
REVISIONS			

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TITLE
**PART 6TH FLOORS PLAN
MECHANICAL**

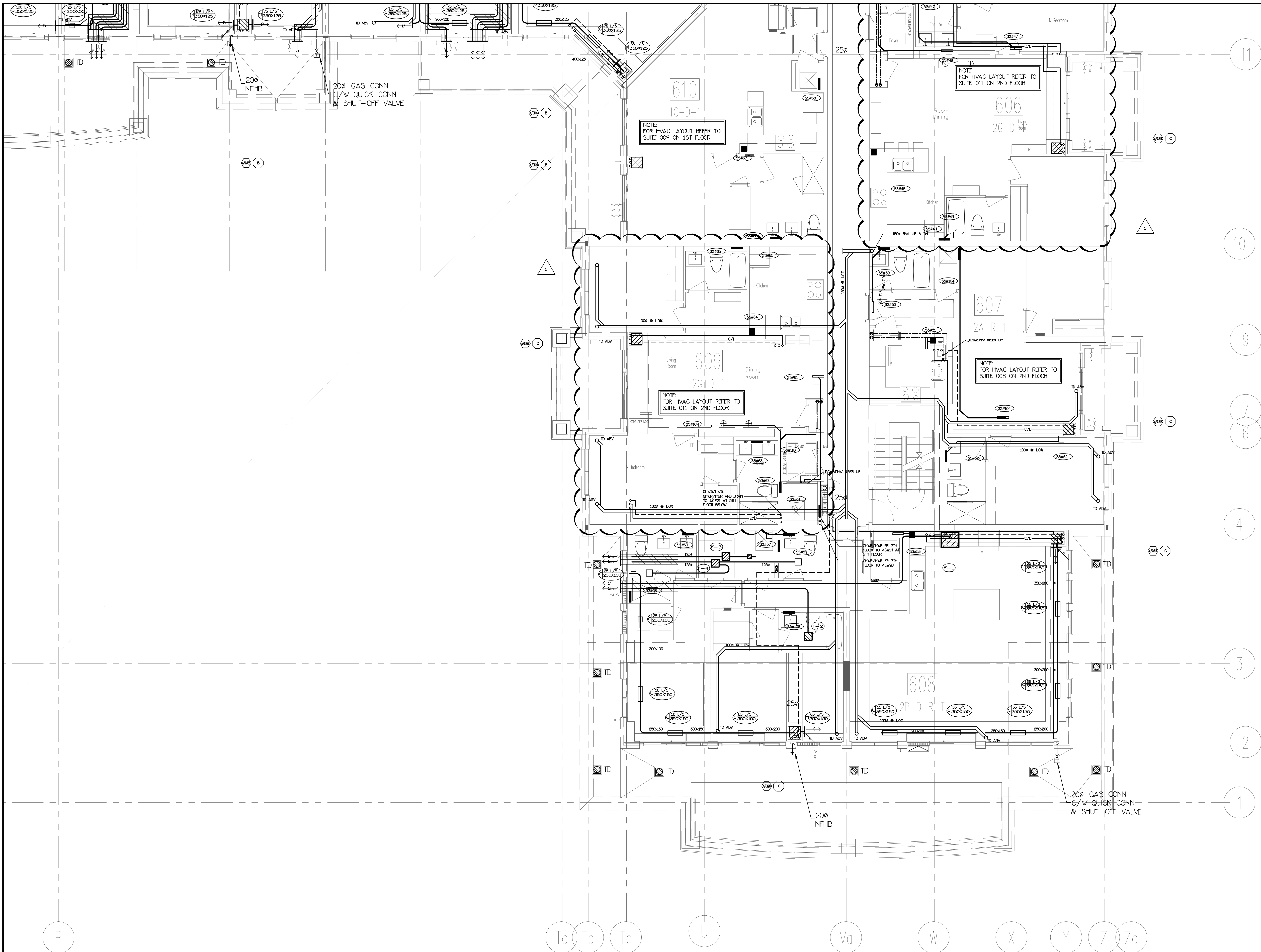
PROJECT
25 BAKER HILL BLVD.
ROYAL PINE HOMES

STOUFFVILLE, ONTARIO

DRAWN	CHECKED	SCALE
GC	BT	1:50

DATE	PROJECT	DRAWING M-28
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JUNE 2015	14-016	M 20 OF 42
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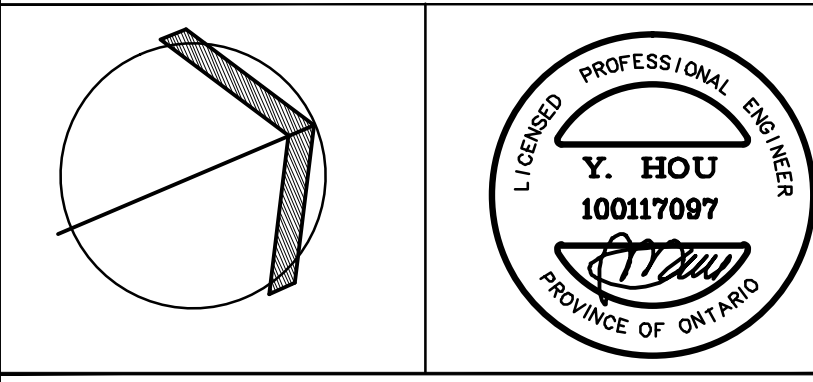


NOTE: FULLY SPRINKLERED BUILDING
FOR FIRE PROTECTION DESIGN PLEASE
REFER TO DSAND SPRINKLER DESIGN
UNITED DRAWINGS.

5	LB	REVISED AS PER SITE INSTRUCTION T1-14	MAR/14/2018
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
NO.	BY	DESCRIPTION	DATE

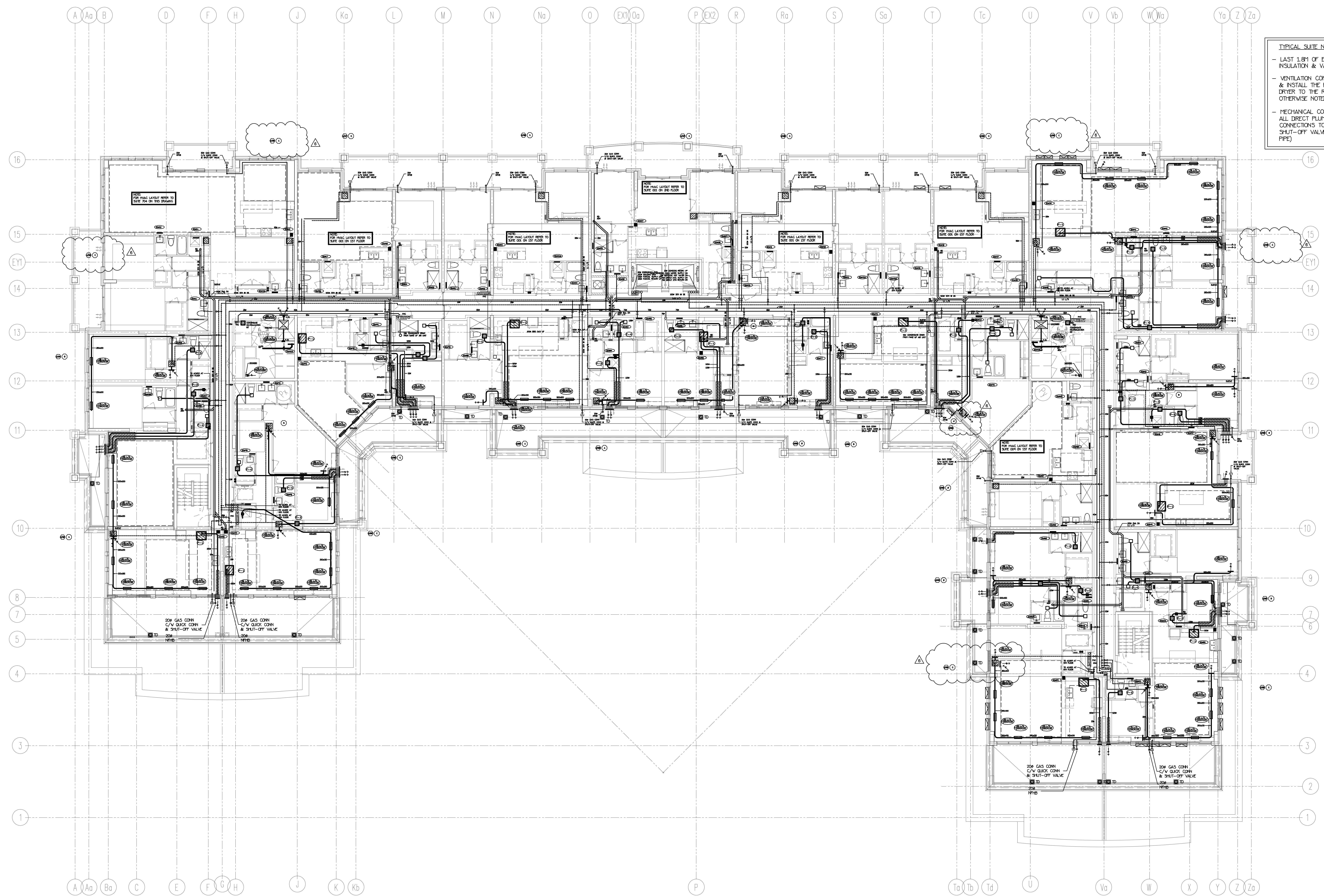
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TITLE		PART 6TH FLOORS PLAN MECHANICAL	
PROJECT		25 BAKER HILL BLVD. ROYAL PINE HOMES	
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN	GC	CHECKED	BT
DATE	JUNE 2015	PROJECT	14-016
		DRAWING	M-29
		OF	42



TYPICAL SUITE NOTES:

- LAST 1.8M OF EXHAUST DUCTWORK C/V INSULATION & VAPOUR BARRIER (TYPICAL)
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NOTE: FULLY SPRINKLERED BUILDING FOR FIRE PROTECTION DESIGN PLEASE REFER TO DSANO SPRINKLER DESIGN LIMITED DRAWINGS.

6	LB	REVISED AS PER SITE INSTRUCTION H-10	OCT/31/2017
5	LB	REVISED AS PER SITE INSTRUCTION H-5	AUG/04/2017
4	LB	ISSUED FOR CONSTRUCTION	JUL/18/2017
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LB	ISSUED FOR PERMIT	JUL/28/2016
1	LB	REVISED AS PER SITE INSTRUCTION H-2	AUG/16/2016
1	LB	ISSUED FOR TENDER	MAR/21/2016

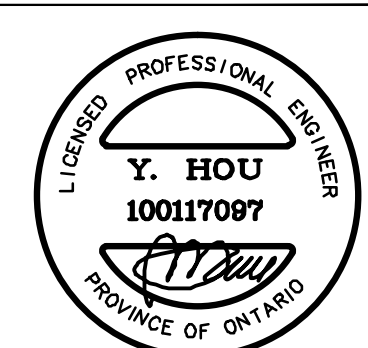
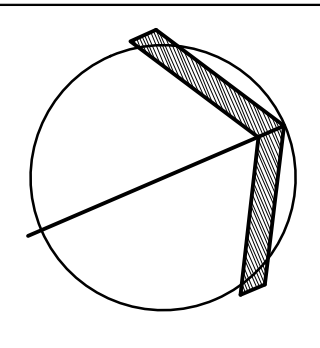
NO.	BY	DESCRIPTION	DATE
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TITLE
**PART 7TH FLOOR PLAN
MECHANICAL**

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.

16

15

EY1

14

13

12

11

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4

NOTE:
FOR HVAC LAYOUT REFER TO
SUITE 704 ON THIS DRAWING

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
5	LB	REVISED AS PER SITE INSTRUCTION H-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
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

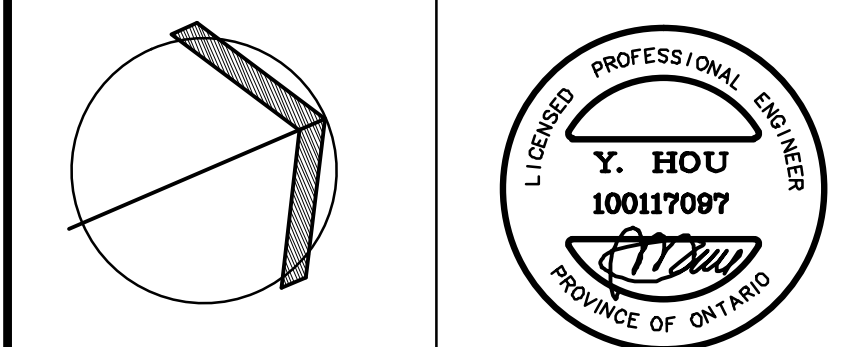
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TITLE
**PART 7TH FLOOR PLAN
MECHANICAL**

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:

- LAST 1.8M OF EXHAUST DUCTWORK C/W INSULATION & VAPOUR BARRIER (TYPICAL)
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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 1ST FLOOR

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

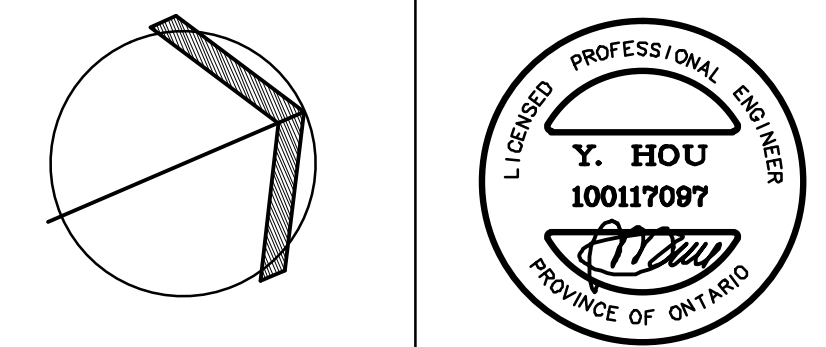
NO.	BY	DESCRIPTION	DATE
5	LB	REVISED AS PER SITE INSTRUCTION H-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/19/2017
3	LT	ISSUED FOR PERMIT	DEC/28/2016
2	OP	REVISED AS PER SITE INSTRUCTION H-2	AUG/16/2016
1	LT	ISSUED FOR TENDER	MAR/21/2016

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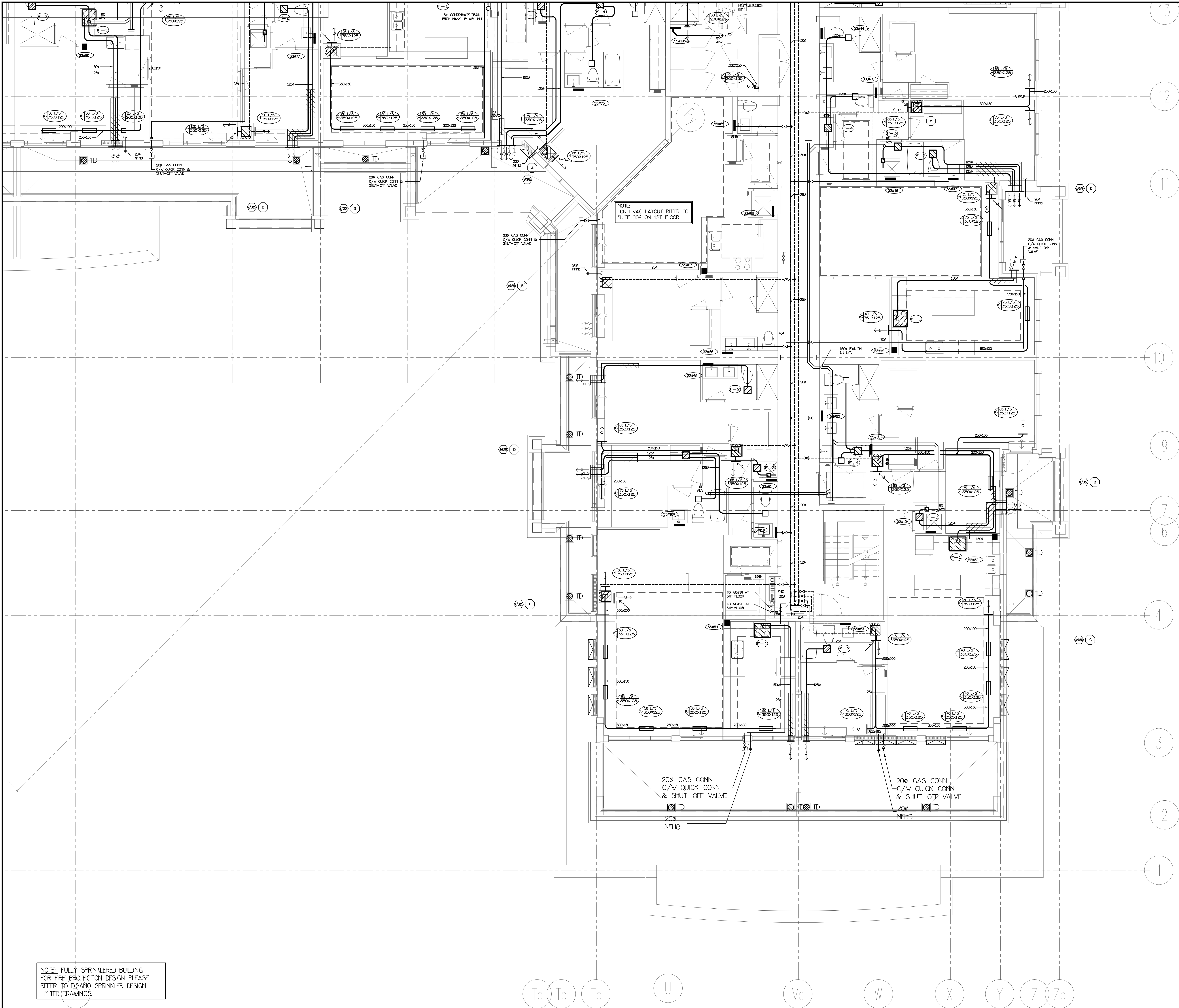
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TITLE			
PART 7TH FLOORS PLAN MECHANICAL			
PROJECT			
25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO			
PROPOSED RESIDENTIAL DEVELOPMENT			
DRAWN	CHECKED	SCALE	
GC	BT	1:50	
DATE	PROJECT	DRAWING	
JUNE 2015	14-016	M-32	
		OF 42	



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 H-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
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

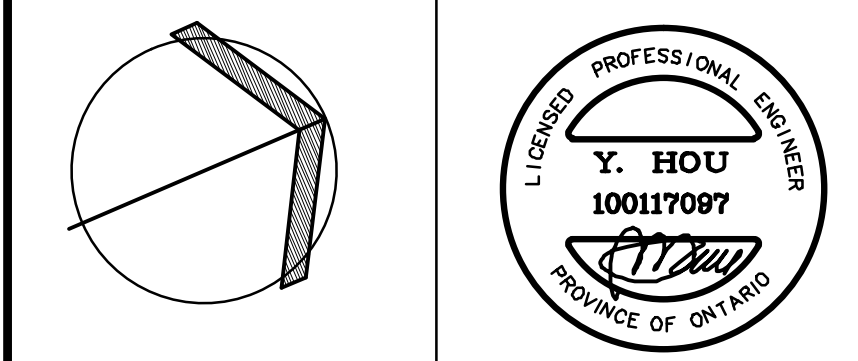
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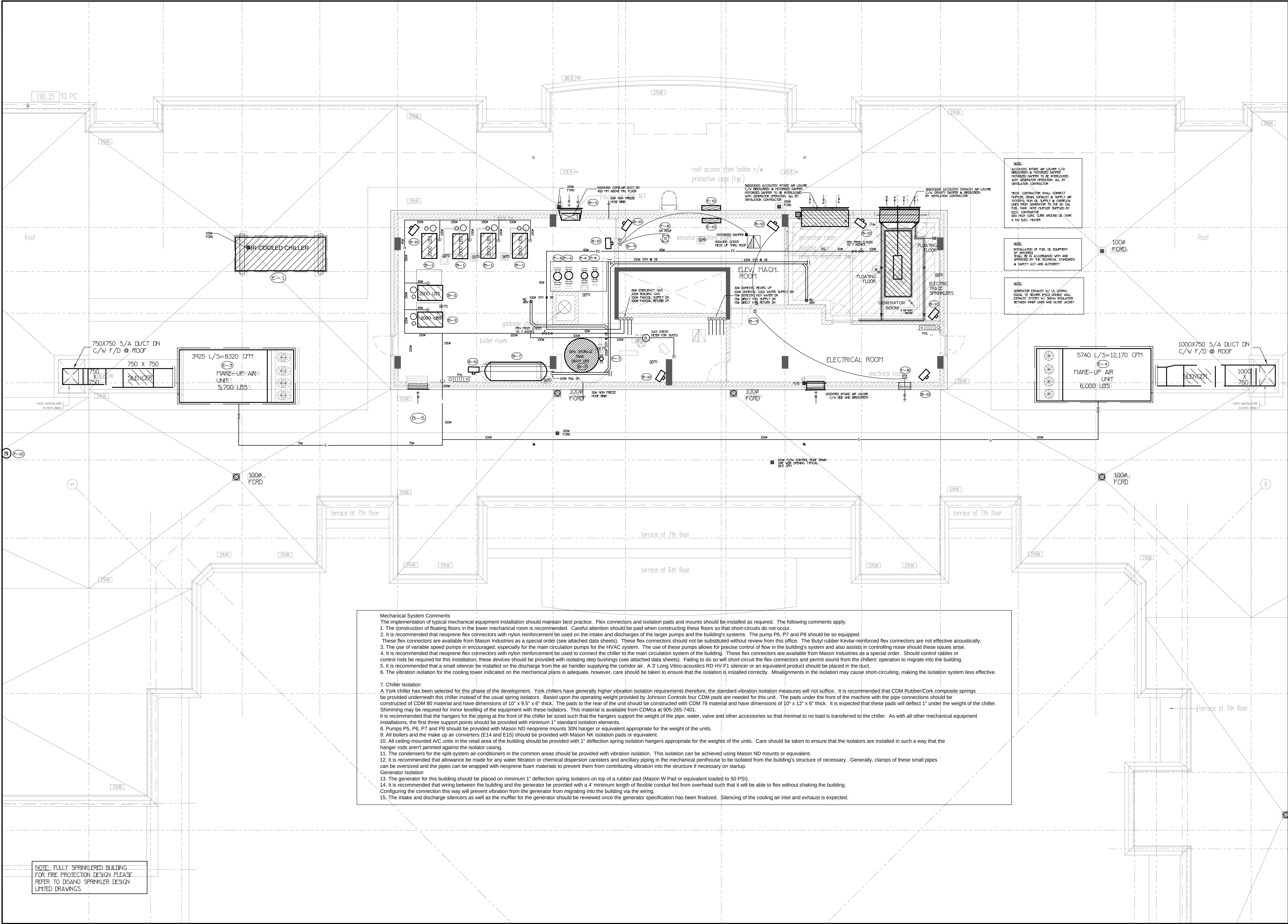
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TITLE PART 7TH FLOOR PLAN MECHANICAL		
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN GC	CHECKED BT	SCALE 1:50
DATE JUNE 2015	PROJECT 14-016	DRAWING M-33 OF 42



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.

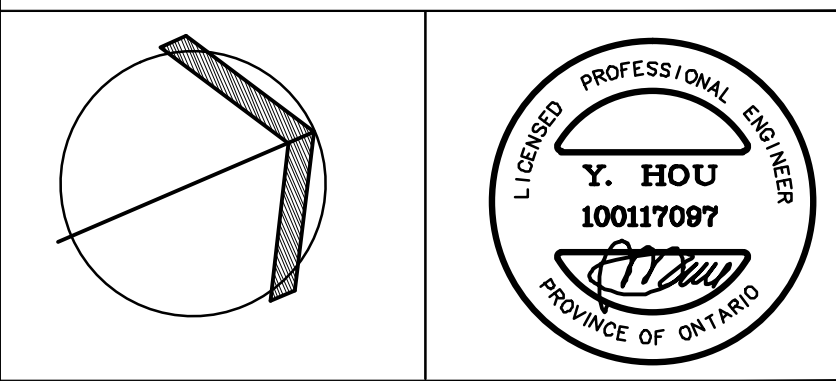
7. Chiller Isolation
A York chiller has been selected for this phase of the development. York chillers have generally higher vibration isolation requirements therefore, the standard vibration isolation measures will not suffice. It is recommended that CDM Rubber/Cork composite springs be provided underneath 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 levelling 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. 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	LM	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
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
5	LB	REVISED AS PER SITE INSTRUCTION P-5	AUG/09/2017
6	LB	ISSUED FOR CONSTRUCTION	AUG/09/2017

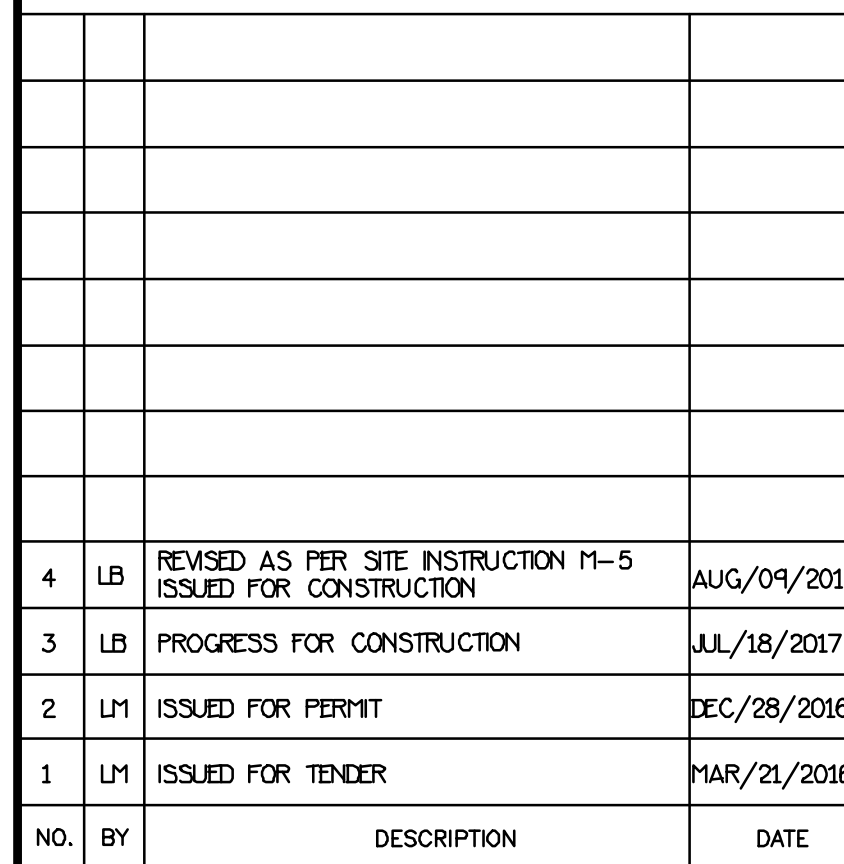
REVISIONS

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TITLE PENTHOUSE FLOOR 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-34 OF 42



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-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 GRADED TO BE ELECT. TRACED AND INSTALLED WITH A BACK FLOW PREVENTED DRAIN.
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

[illegible]

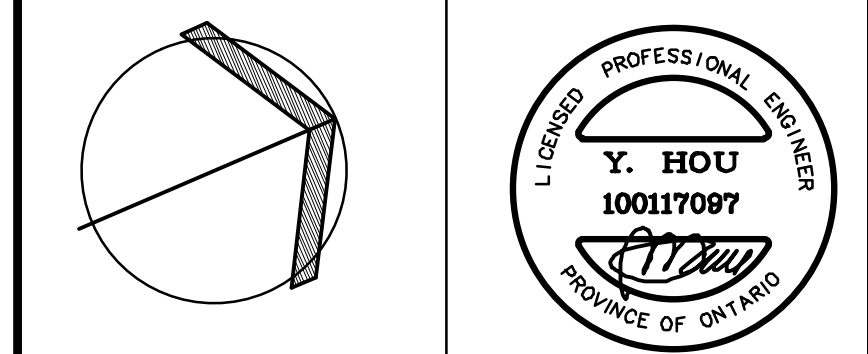
REVISIONS	
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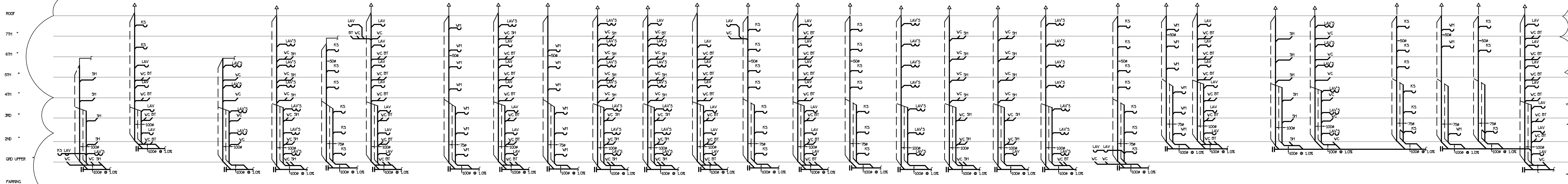
TITLE

**RISERS
MECHANICAL**

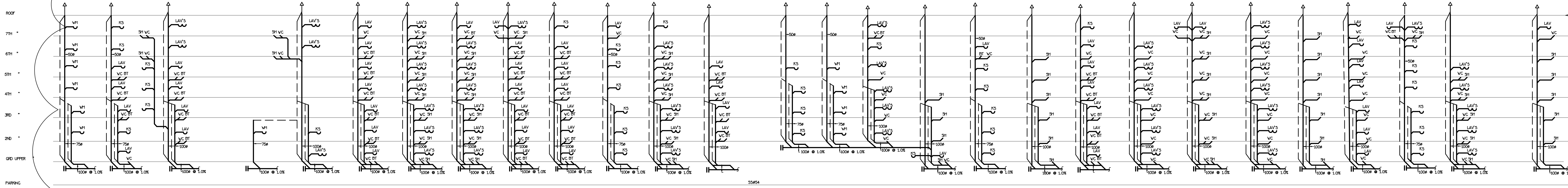
PROJECT
25 BAKER HILL BLVD.
ROYAL PINE HOMES

STOUFFVILLE, ONTARIO
PROPOSED RESIDENTIAL DEVELOPMENT

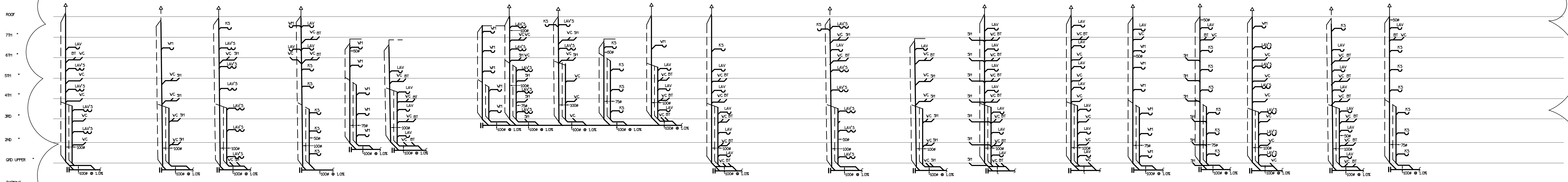
DRAWN GC	CHECKED BT	SCALE NTS
DATE JUNE 2015	PROJECT 14-016	DRAWING M-36 OF 42



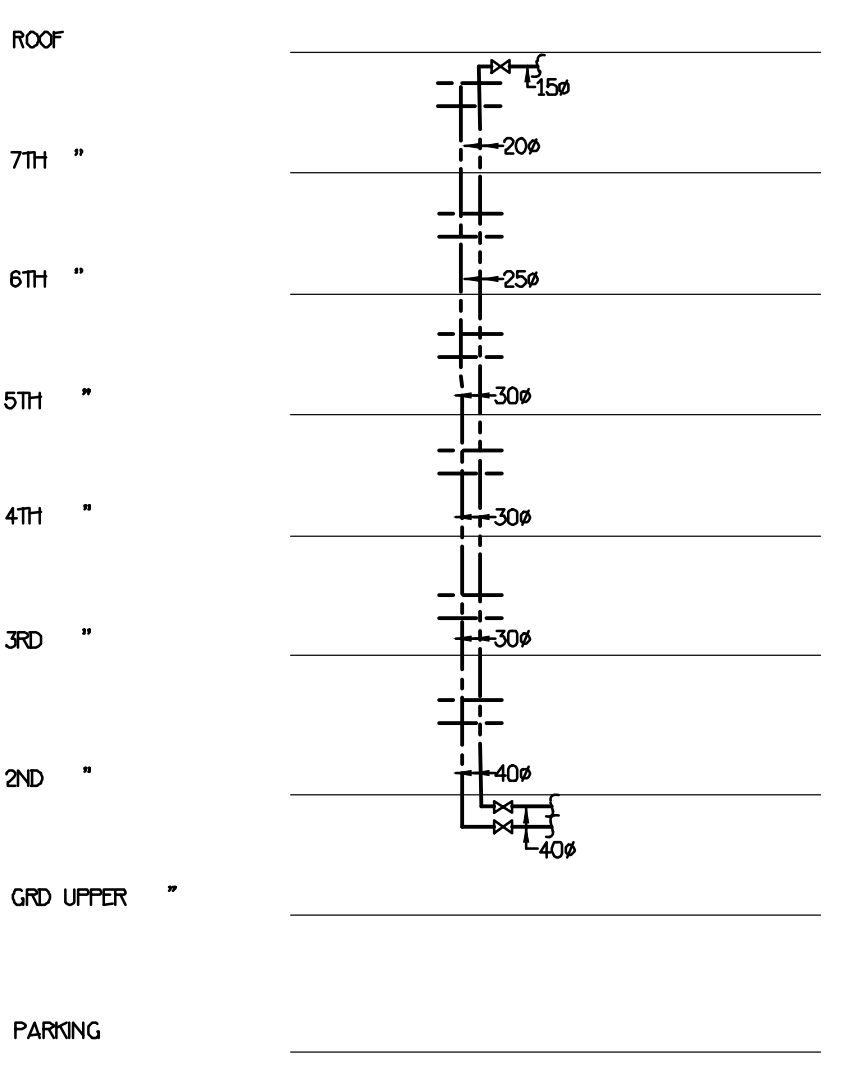
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TOTAL FIXTURE UNITS :	37.5 F.U.S.	27 F.U.S.	28 F.U.S.	36 F.U.S.	9 F.U.S.	48 F.U.S.	10.5 F.U.S.	42 F.U.S.	9 F.U.S.	50 F.U.S.	31 F.U.S.	42 F.U.S.	16.5 F.U.S.	42 F.U.S.	10.5 F.U.S.	10.5 F.U.S.	37.5 F.U.S.	16.5 F.U.S.	22.5 F.U.S.	9 F.U.S.	36 F.U.S.	9 F.U.S.	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.	



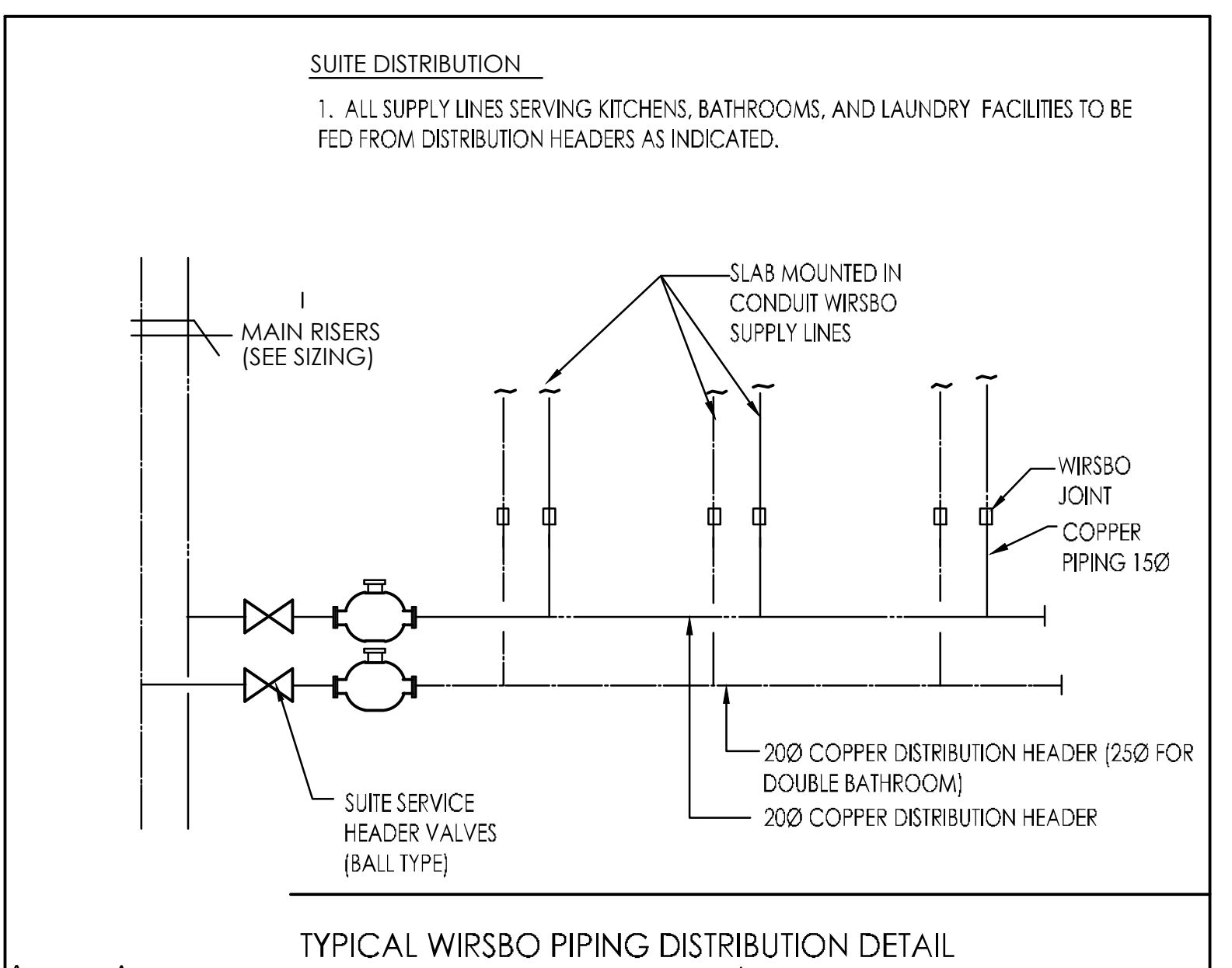
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TOTAL FIXTURE UNITS :	9 F.U.S.	10 F.U.S.	42 F.U.S.	6 F.U.S.	19.5 F.U.S.	42 F.U.S.	52.5 F.U.S.	51 F.U.S.	48 F.U.S.	37.5 F.U.S.	19 F.U.S.	46.5 F.U.S.	24 F.U.S.	6 F.U.S.	6 F.U.S.	31.5 F.U.S.	55.5 F.U.S.	13.5 F.U.S.	9 F.U.S.	37.5 F.U.S.	36 F.U.S.	42 F.U.S.	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.



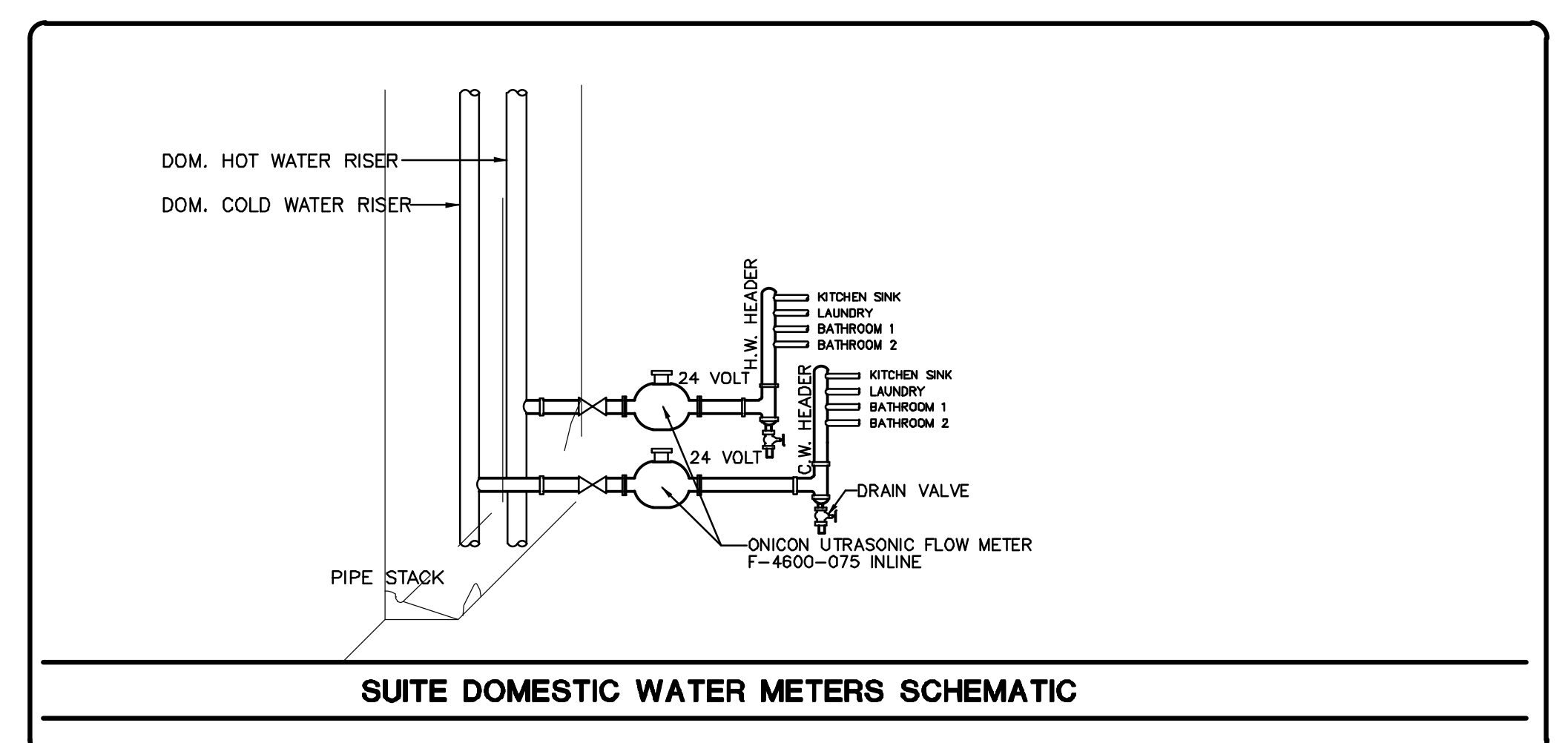
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TOTAL FIXTURE UNITS :	30 F.U.S.	25.5 F.U.S.	31.5 F.U.S.	10.5 F.U.S.	7.5 F.U.S.	24 F.U.S.	7.5 F.U.S.	36 F.U.S.	18 F.U.S.	4.5 F.U.S.	19.5 F.U.S.	31.5 F.U.S.	30 F.U.S.	10.5 F.U.S.	52.5 F.U.S.	42 F.U.S.	15 F.U.S.	24 F.U.S.	26 F.U.S.	37.5 F.U.S.	15 F.U.S.
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

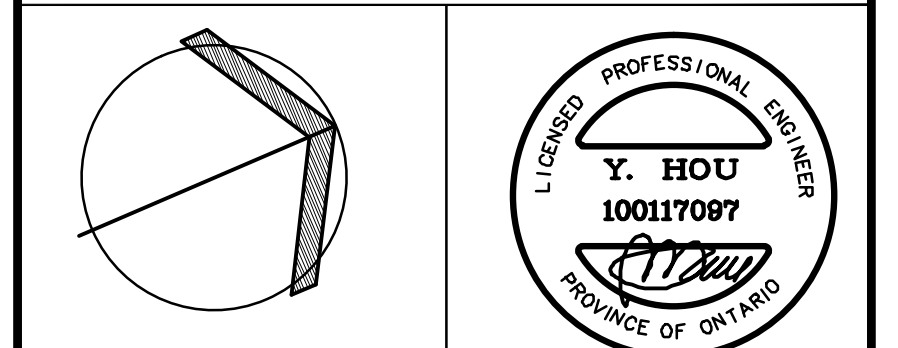
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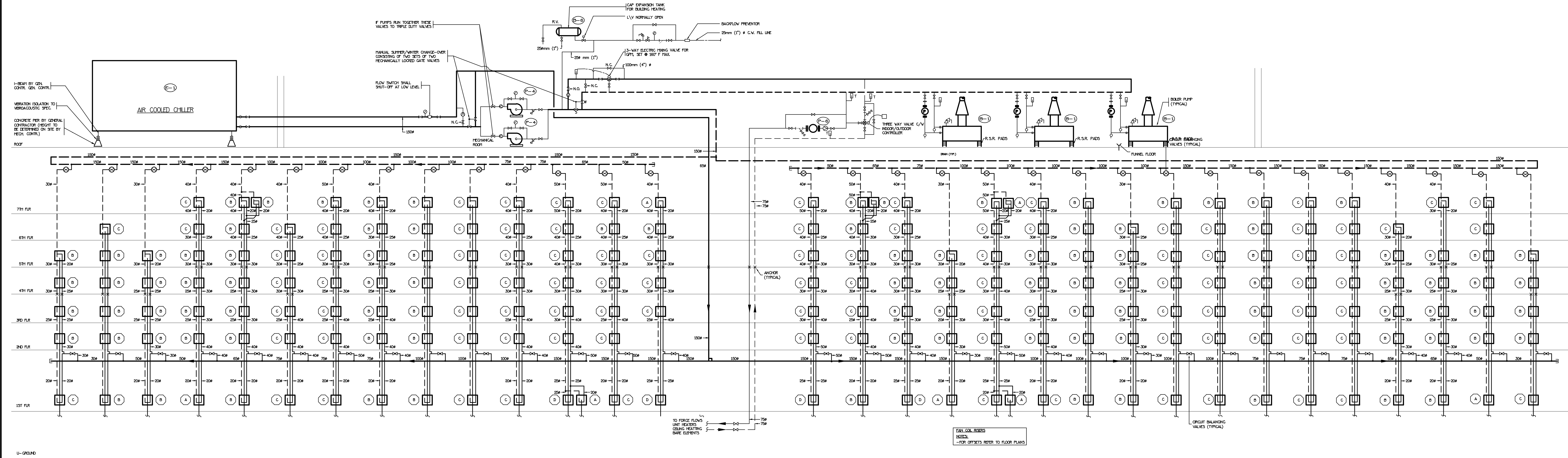
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TITLE PLUMBING RISERS MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO		PROPOSED RESIDENTIAL DEVELOPMENT	
DRAWN GC	CHECKED BT	SCALE NTS	DRAWING M-37
DATE JUNE 2015	PROJECT 14-016	SCALE OF	42



FAN COIL RISER NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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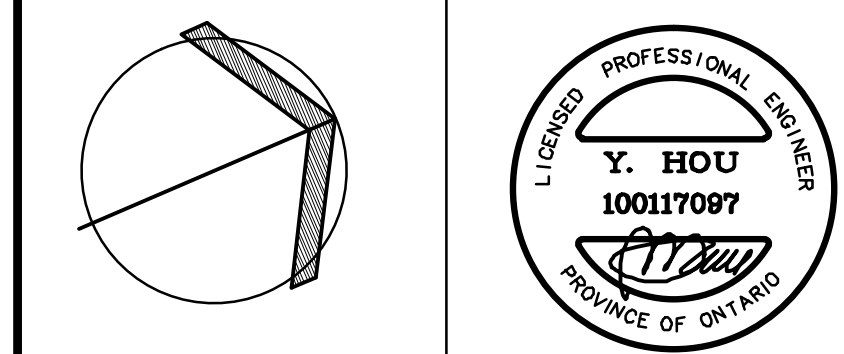
NO.	BY	DESCRIPTION	DATE
1	Y. HOU	ISSUED FOR TENDER	MAR/21/2016
2	Y. HOU	ISSUED FOR PERMIT	DEC/28/2016
3	Y. HOU	PROGRESS FOR CONSTRUCTION	JUL/18/2017
4	Y. HOU	REVISED AS PER SITE INSTRUCTION IT-5 ISSUED FOR CONSTRUCTION	AUG/04/2017

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TITLE		
FAN COIL RISERS MECHANICAL		
PROJECT		
25 BAKER HILL BLVD. ROYAL PINE HOMES		
STOUFFVILLE, ONTARIO		
PROPOSED RESIDENTIAL DEVELOPMENT		
DRAWN	CHECKED	SCALE
GC	BT	NTS
DATE	PROJECT	DRAWING
JUNE 2015	14-016	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.			
(B-1)	HEATING BOILER	BOILER ROOM-1	1940 FEM		4		RAYPAK	H-2000	CONDENSATE NEUTRALIZATION KIT
(B-2)	DOY HOT WATER HEATING BOILER	BOILER ROOM			2		RAYPAK	H-2000	CONDENSATE NEUTRALIZATION KIT
(B-3)	CONVECTION HOT WATER TANK	BOILER ROOM			1		CLIFFER	H-2000	CONDENSATE NEUTRALIZATION KIT
(B-4)	HEAT AIR	BOILER ROOM			1000 V X 600 D				
(B-5)	EMERGENCY GAS SHUT-OFF VALVE	BOILER ROOM-1			400 # X 3000 L				
(B-6)	HEATING SYSTEM DIVISION TANK	BOILER ROOM-1			400 # X 3000 L				
(B-7)	REVERSE ACTING THERMOSTAT	ELEV MACH RM & ELEC RM			5 RV				
(B-8)	ELECTRIC UNIT HEATER	ELEV MACH RM & ELEC RM			5 RV				

HEATING UNIT SCHEDULE									
UNIT No	DESCRIPTION	LOCATION	HEATING	COOLING	EXTERNAL	POWER	MAKE	MODEL	REMARKS
			K.W. / M.B.H.	L/S / G.P.M.	K.W. / M.B.H.	L/S / G.P.M.			
(H-1)	RV-2A	VEHICULARS & MOVING ROOM	86.7	0.380	1/6 H.P.	120/1/60	ENGINEER-ART	CLH-8	C/V THERMOSTAT, SPEED SWITCH & LOCKABLE TAMPERPROOF GUARD
(H-2)	RV-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)	MODEL H	GARAGE ROOM	24.5	0.45	1/25 H.P.	120/1/60	ENGINEER-ART	H-1	C/V THERMOSTAT & STARTER
(H-4)	BASEMENT	BASEMENT	11.7	0.282	1/25 H.P.	120/1/60	ENGINEER-ART	H-1	C/V THERMOSTAT & STARTER
(H-5)	BASEMENT	BASEMENT	4.0	0.07	1/25 H.P.	120/1/60	ENGINEER-ART	H-1	C/V THERMOSTAT & STARTER
(H-6)	BASEMENT	BASEMENT	4.36	0.138	1/25 H.P.	120/1/60	ENGINEER-ART	H-1	C/V THERMOSTAT & STARTER
(H-7)	BASEMENT	BASEMENT	4.36	0.138	1/25 H.P.	120/1/60	ENGINEER-ART	H-1	C/V THERMOSTAT & STARTER

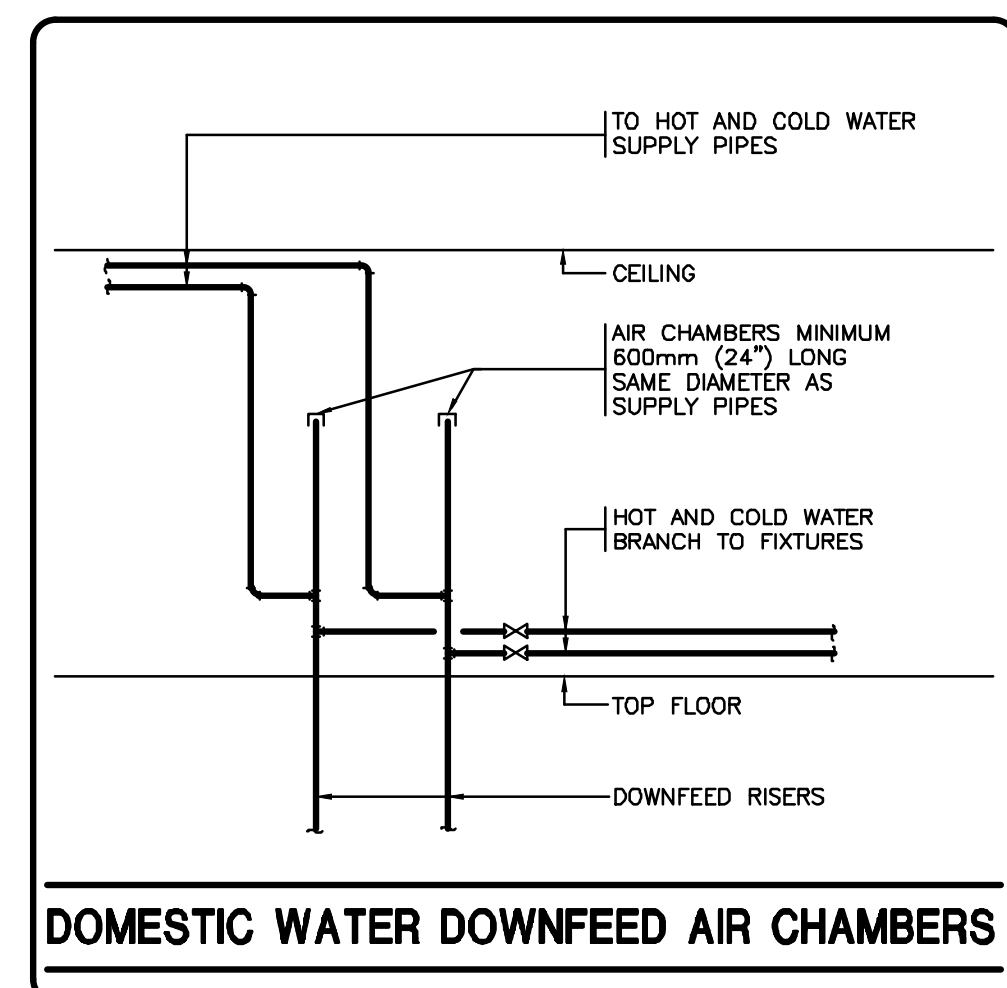
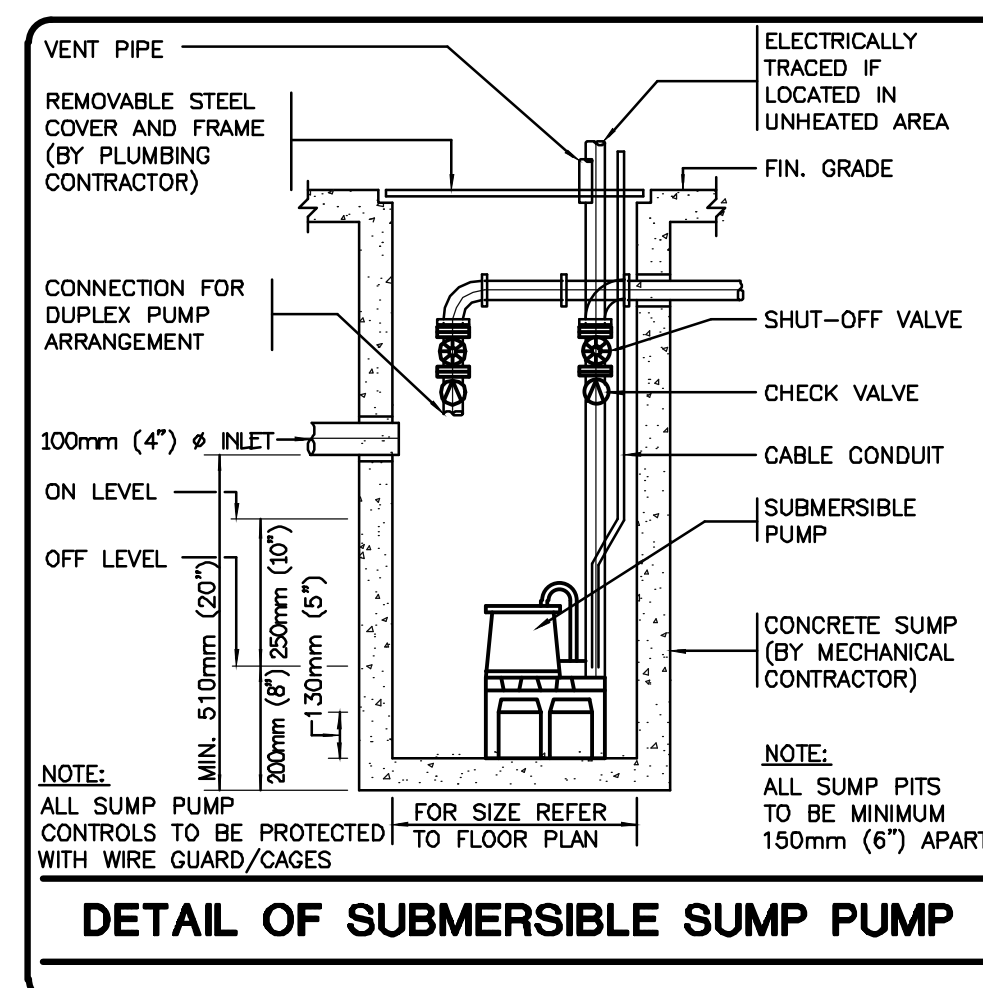
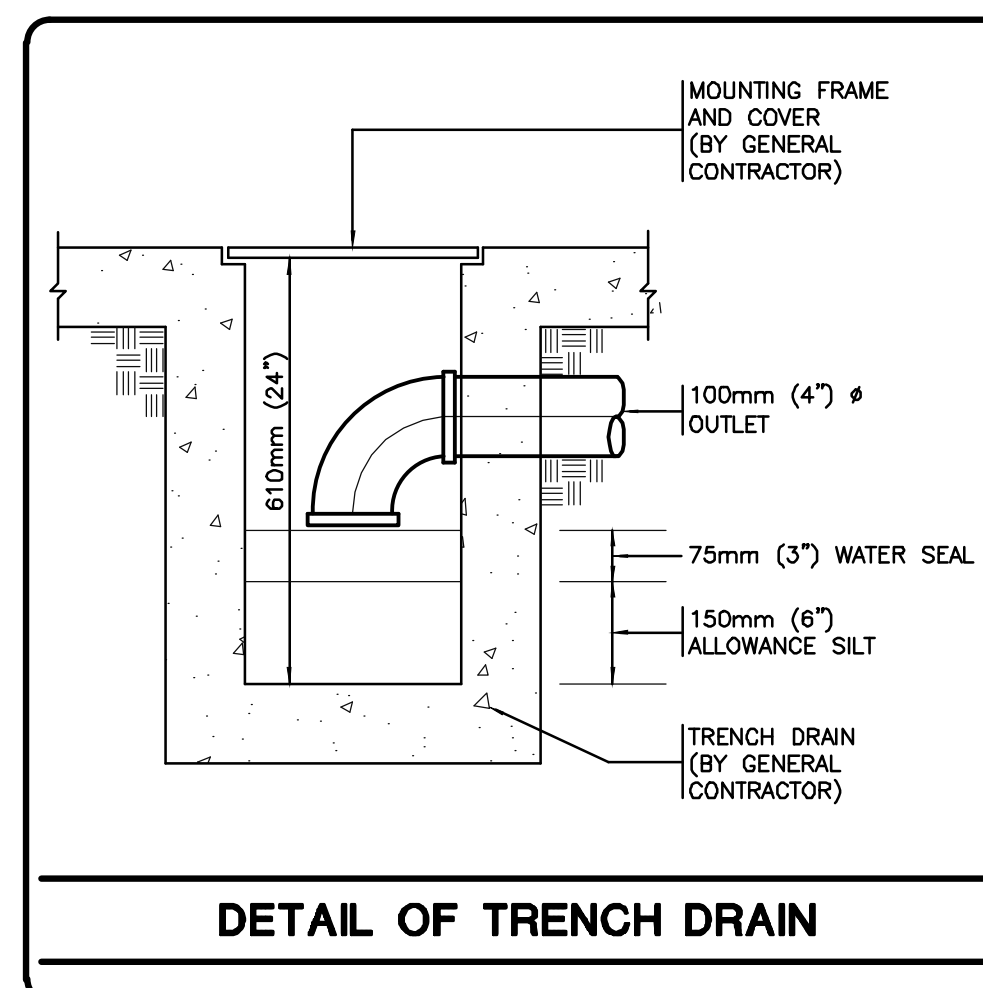
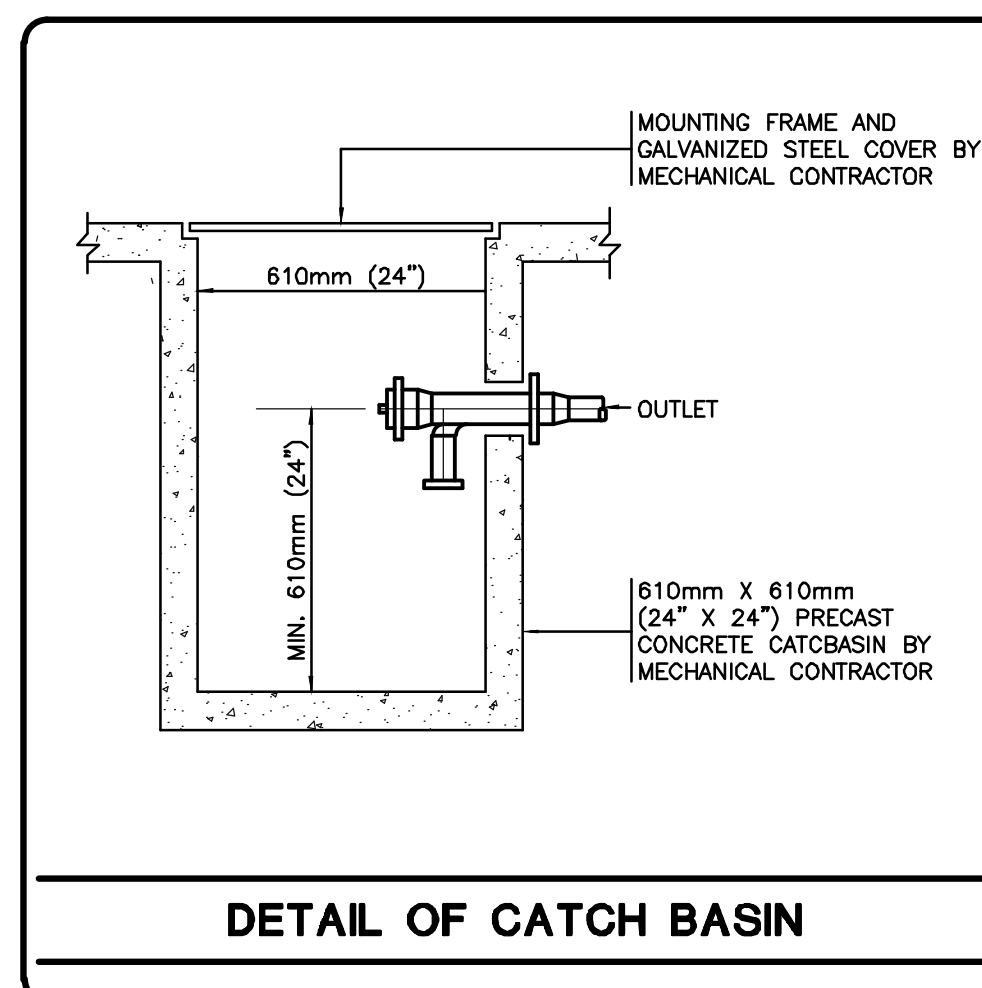
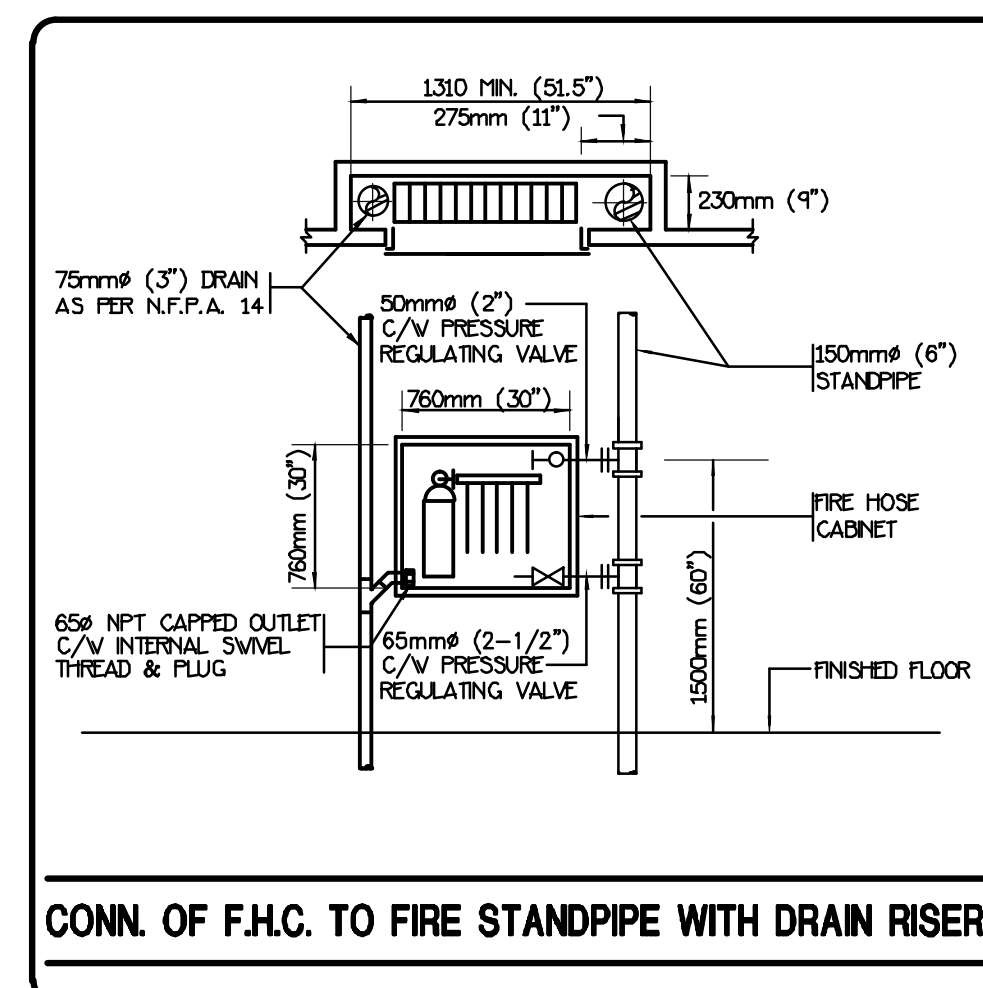
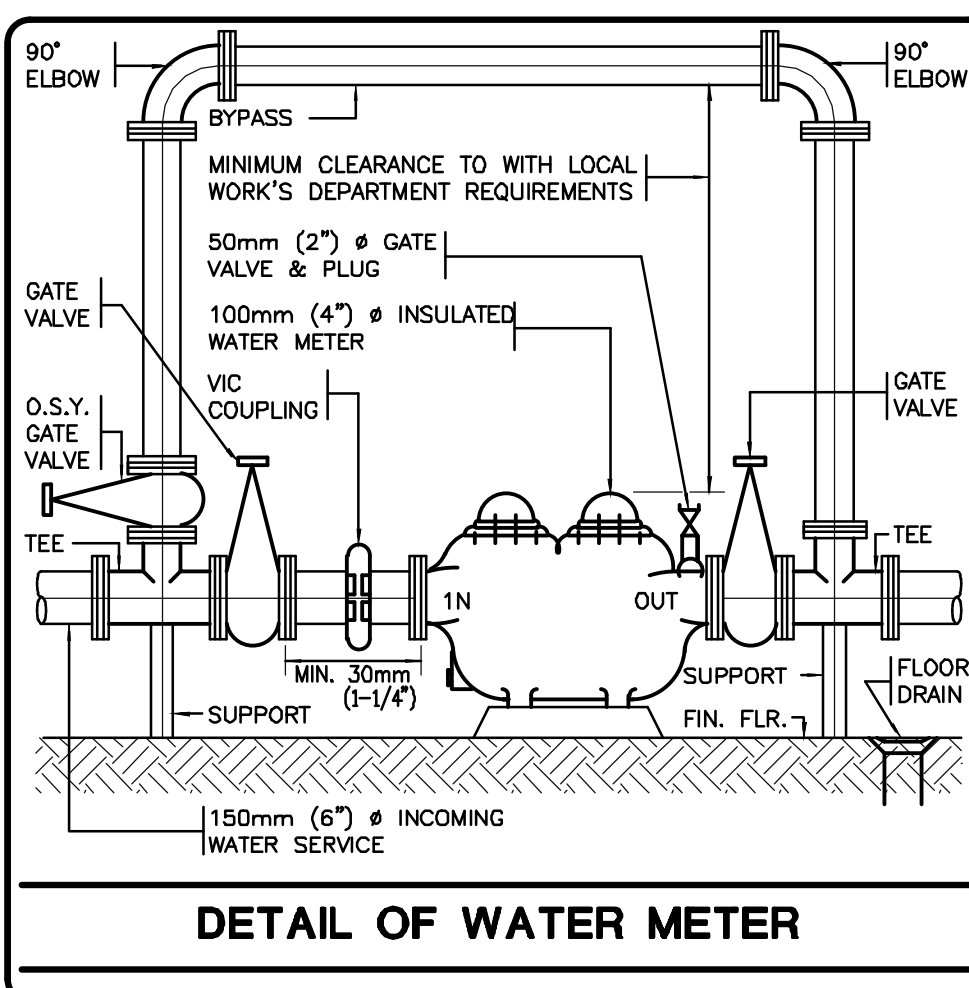
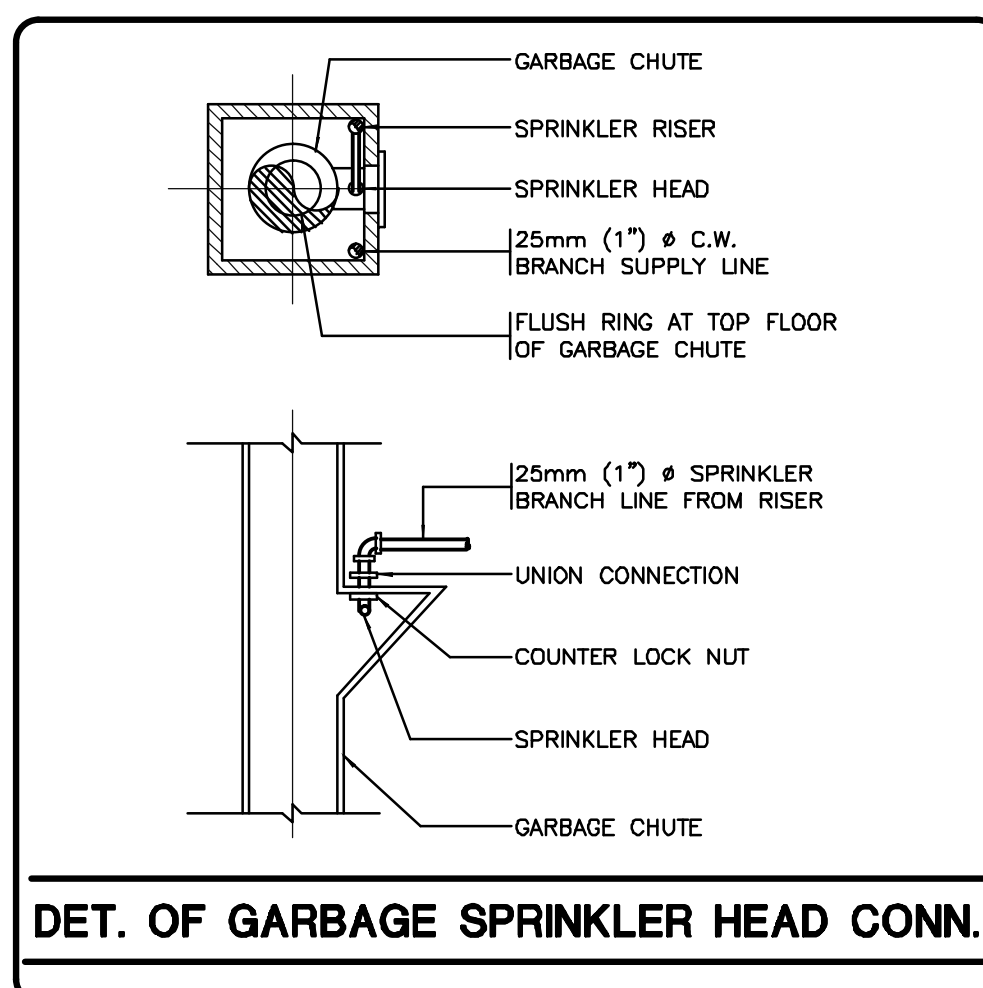
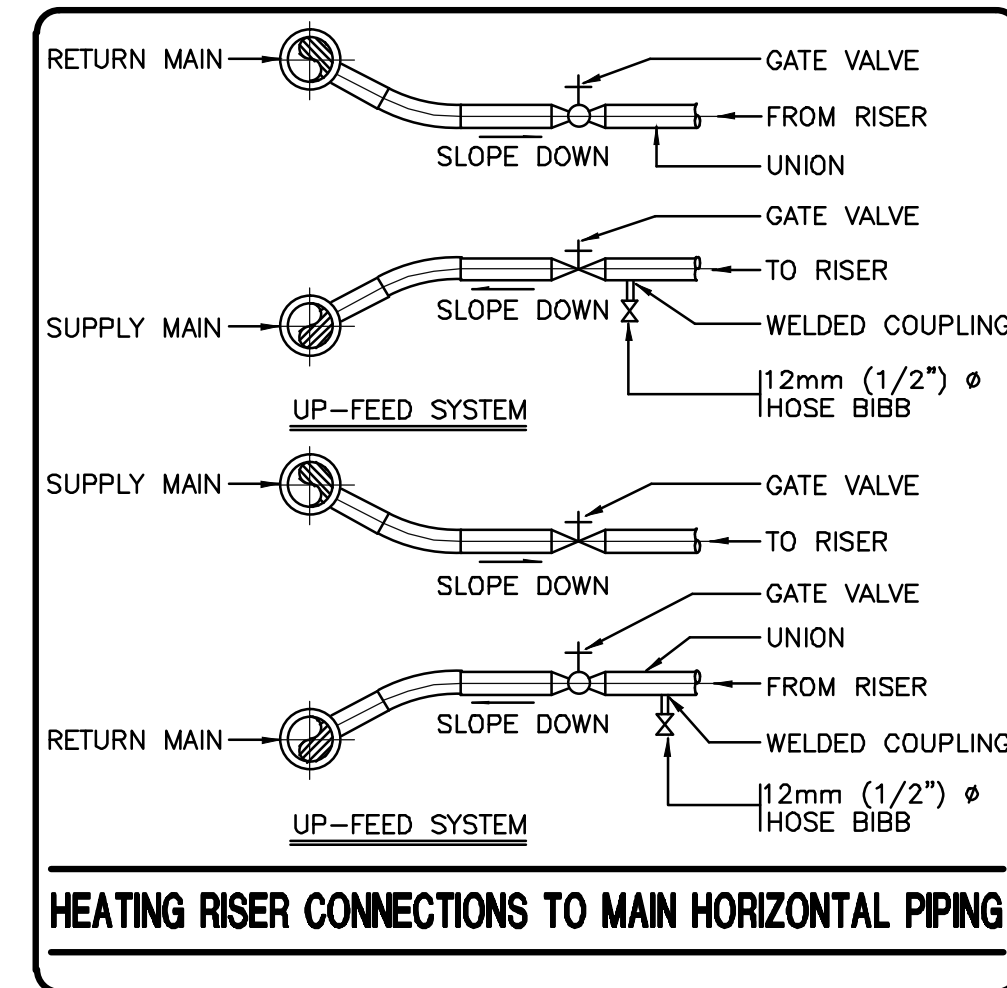
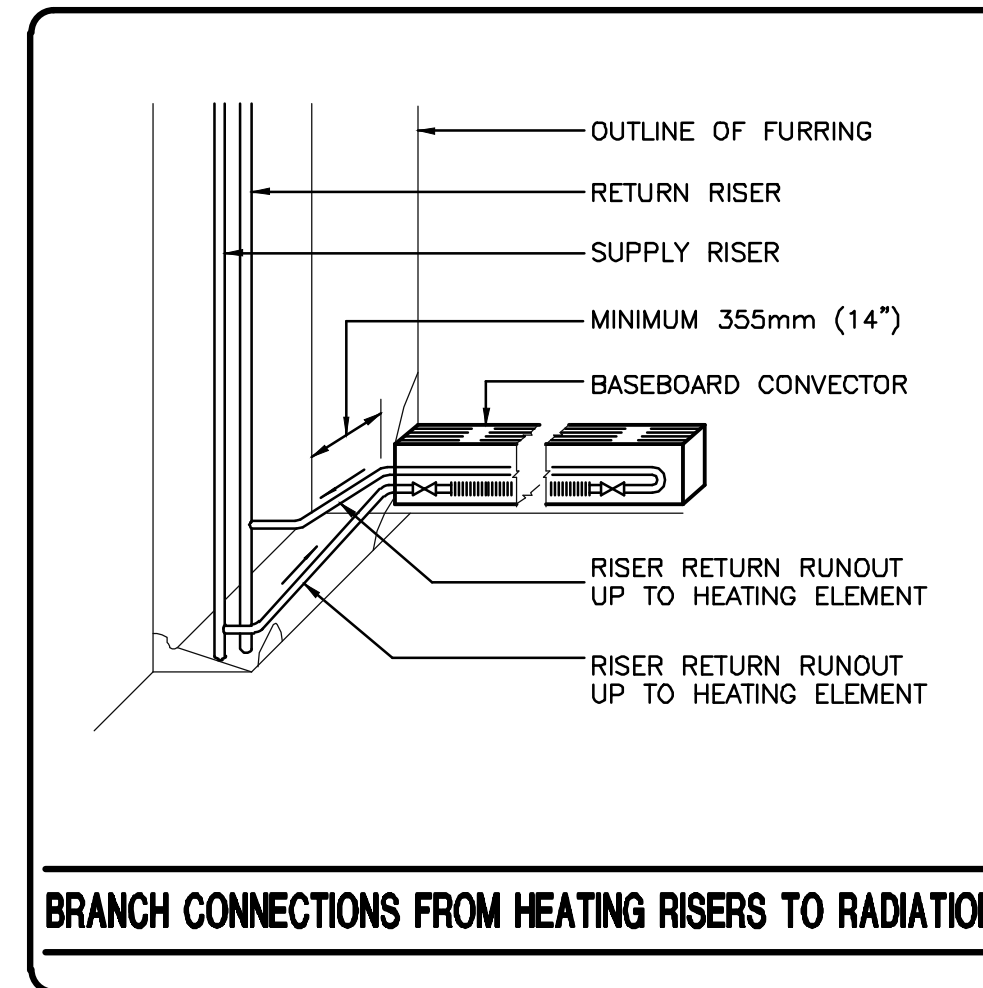
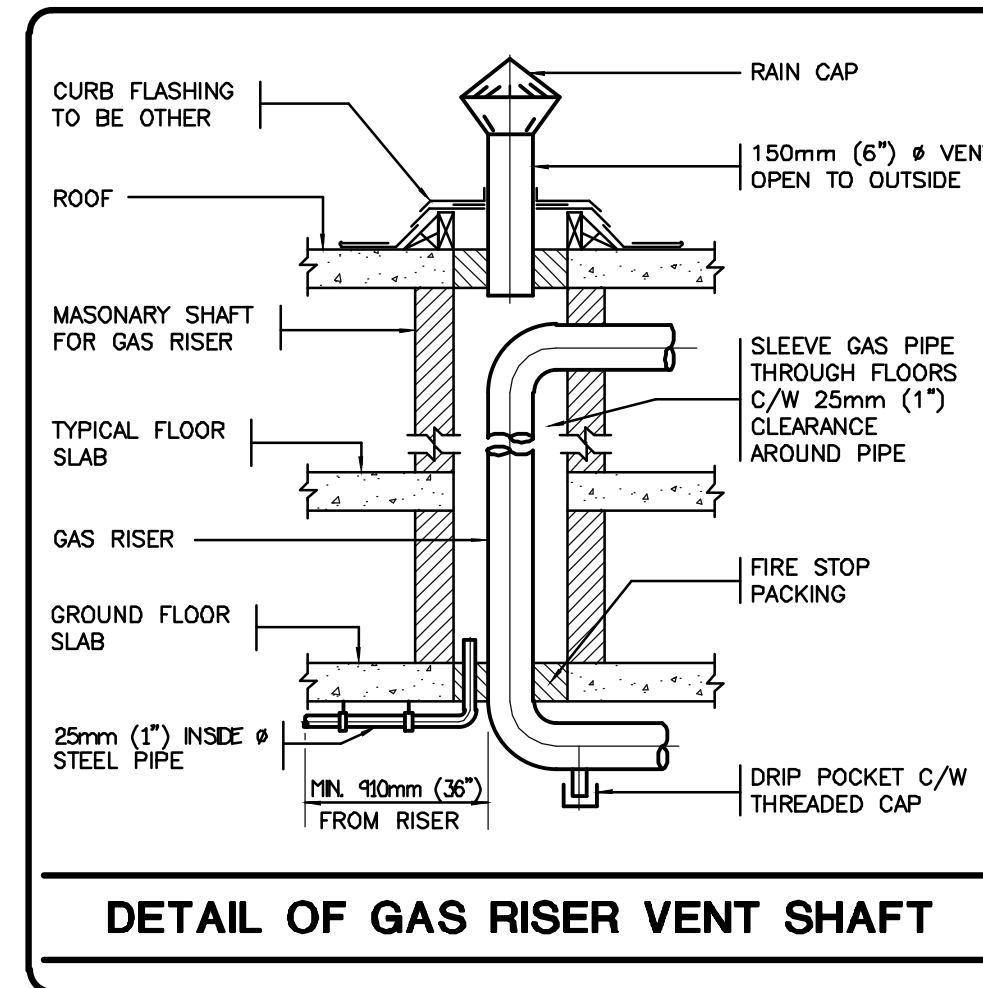
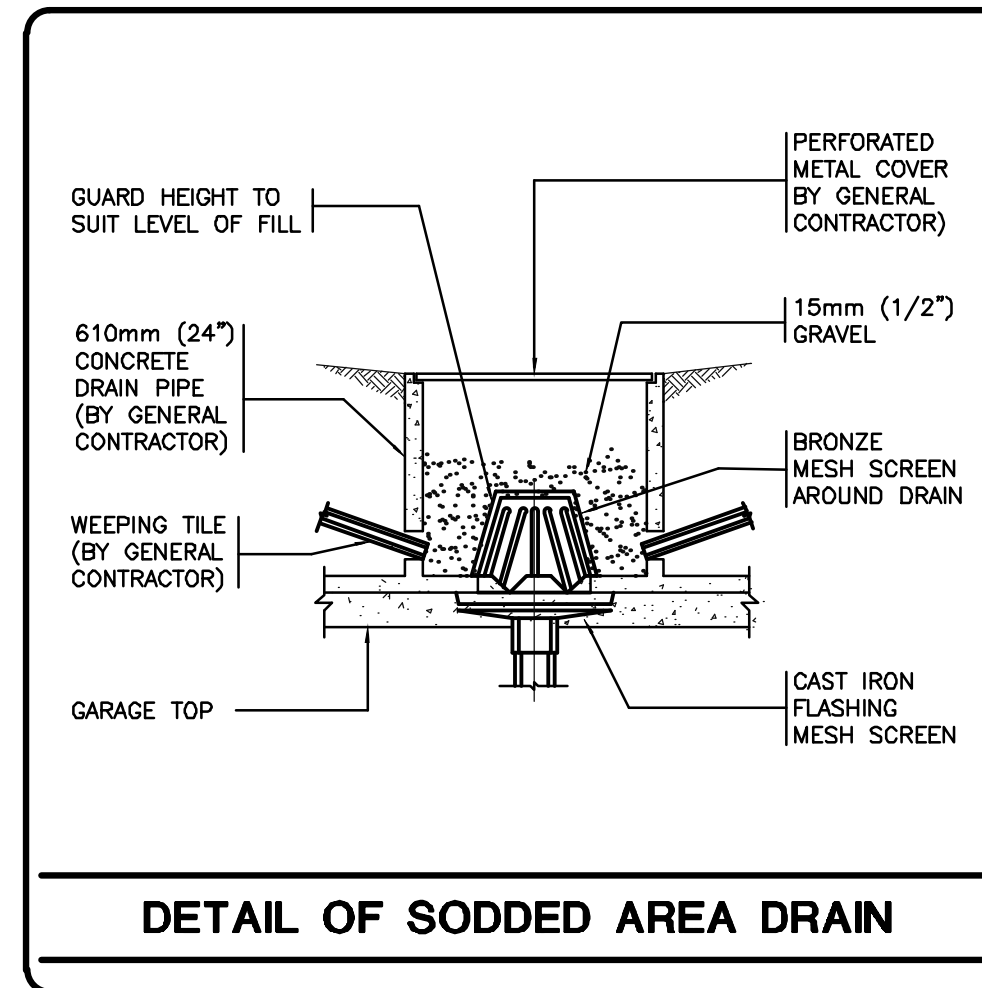
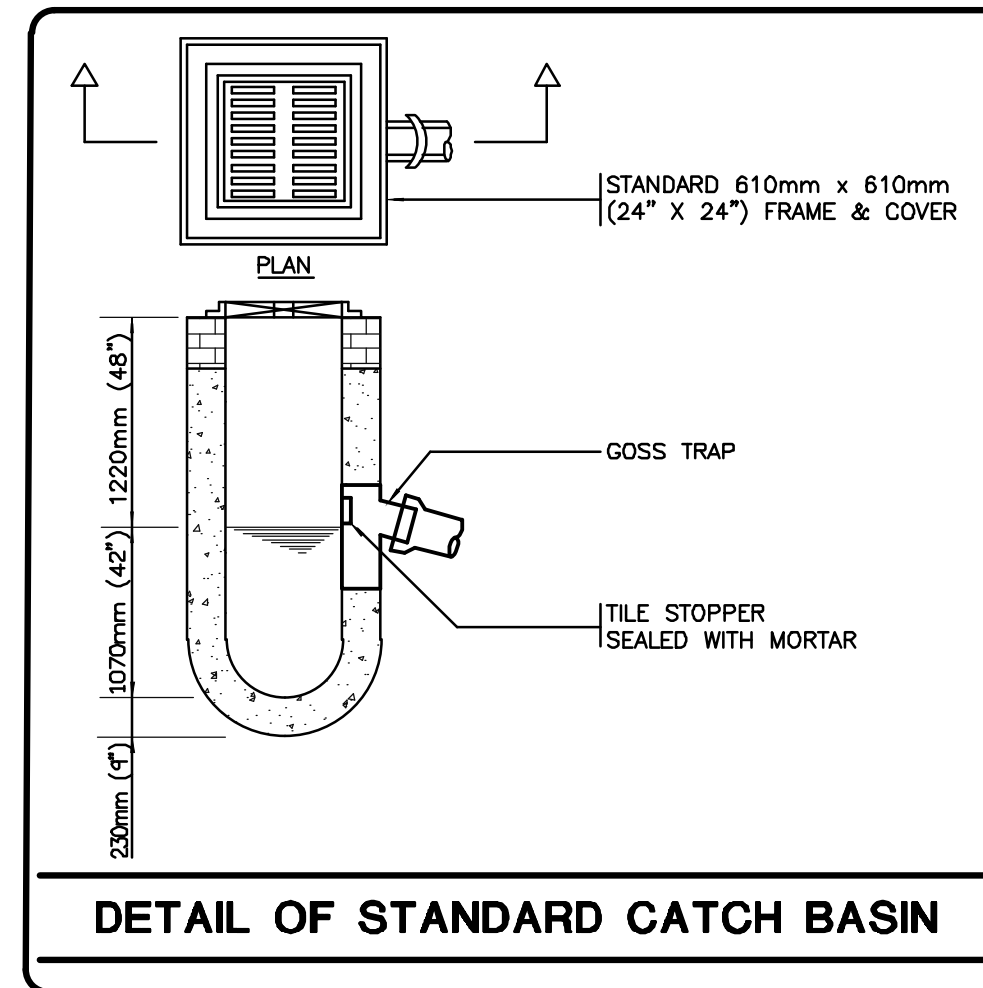
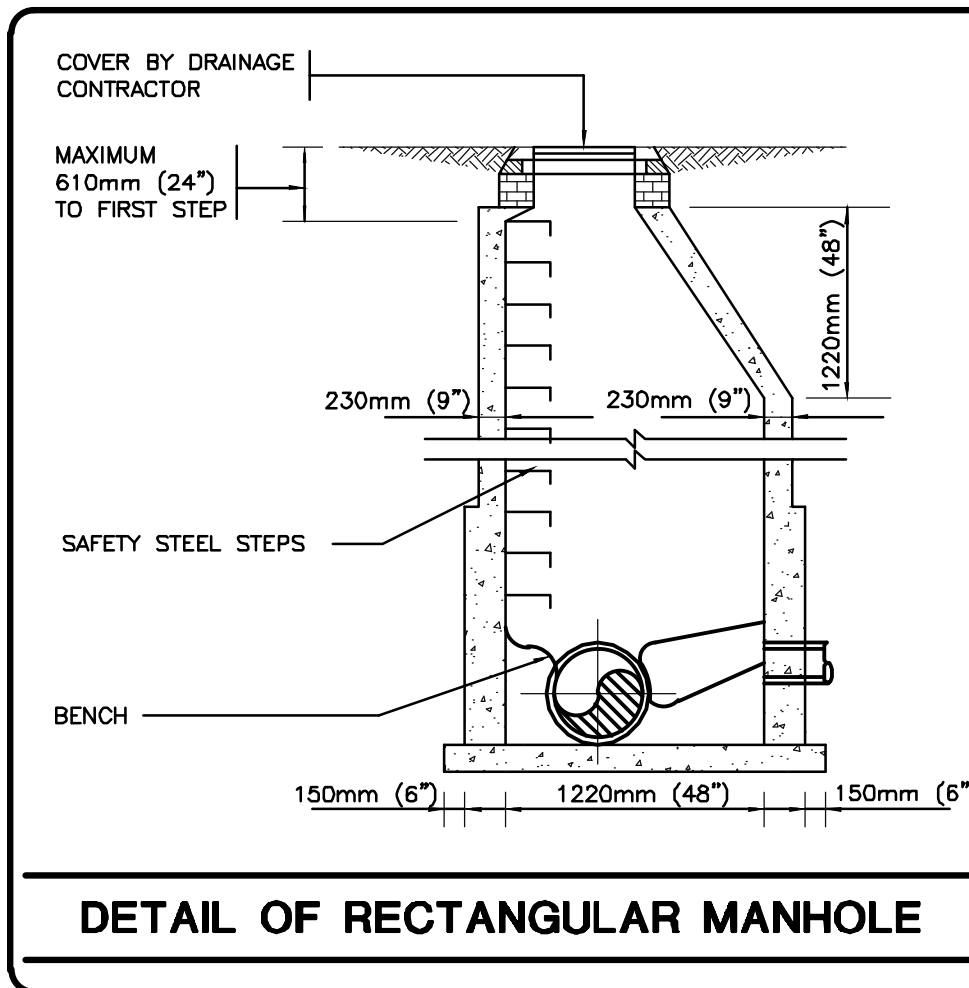
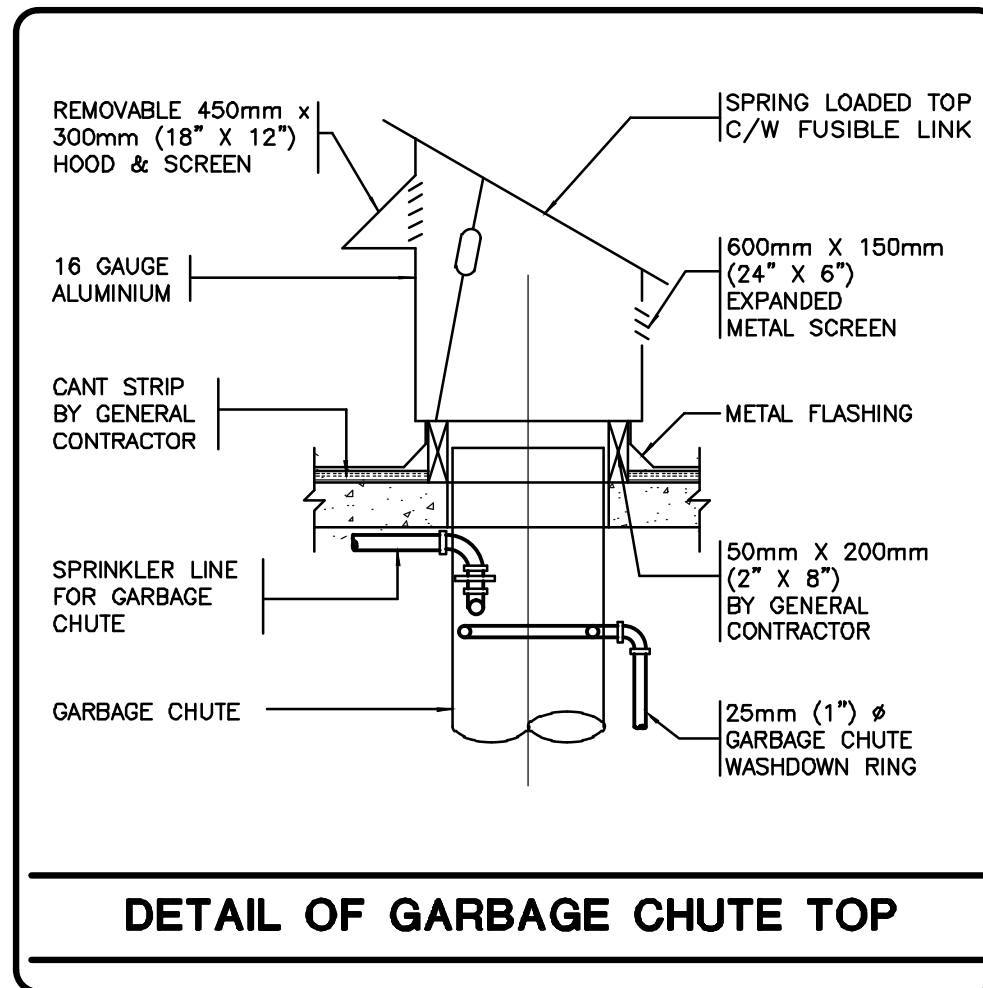
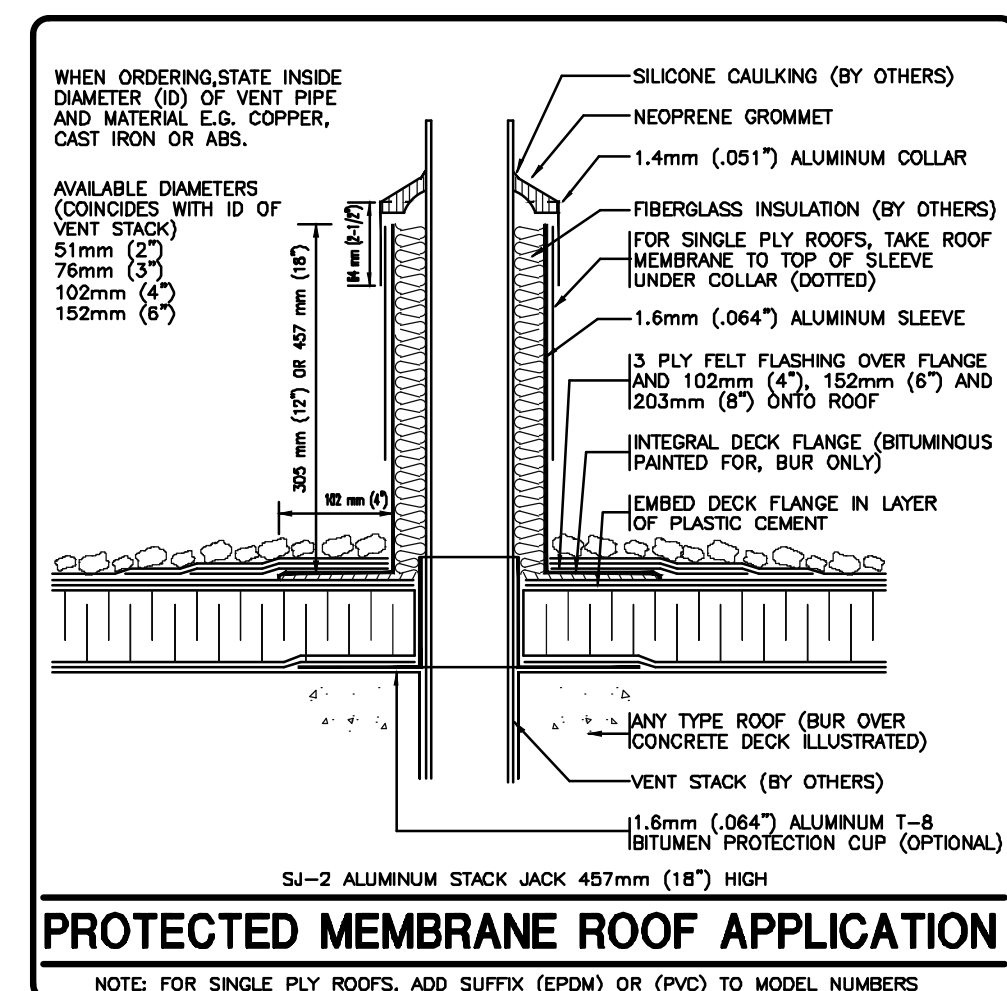
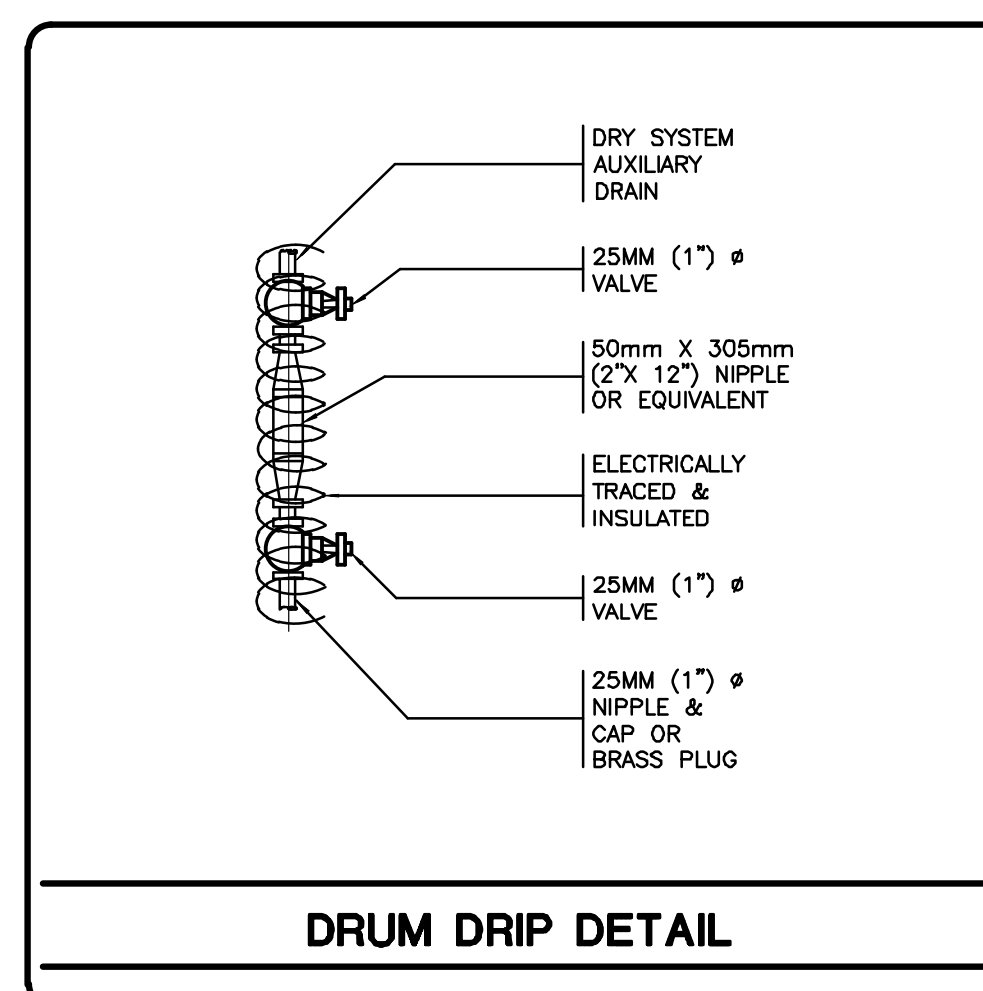
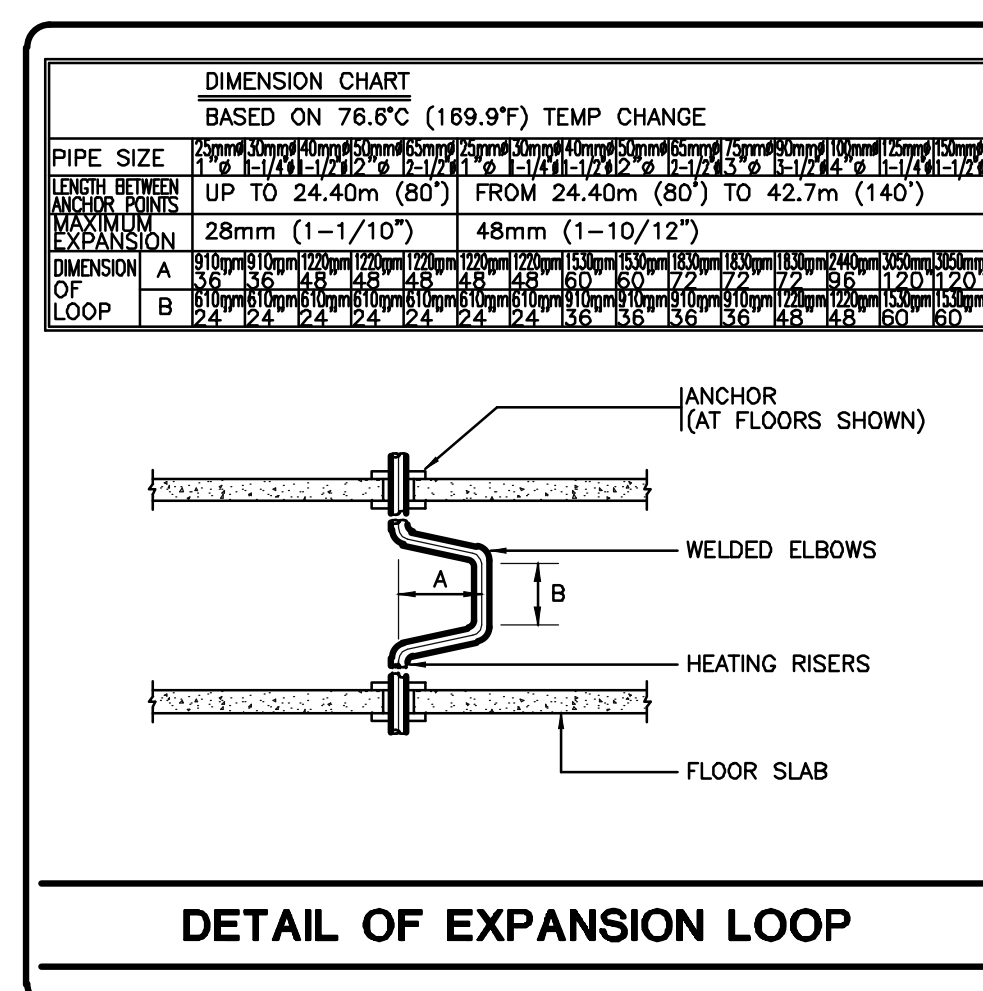
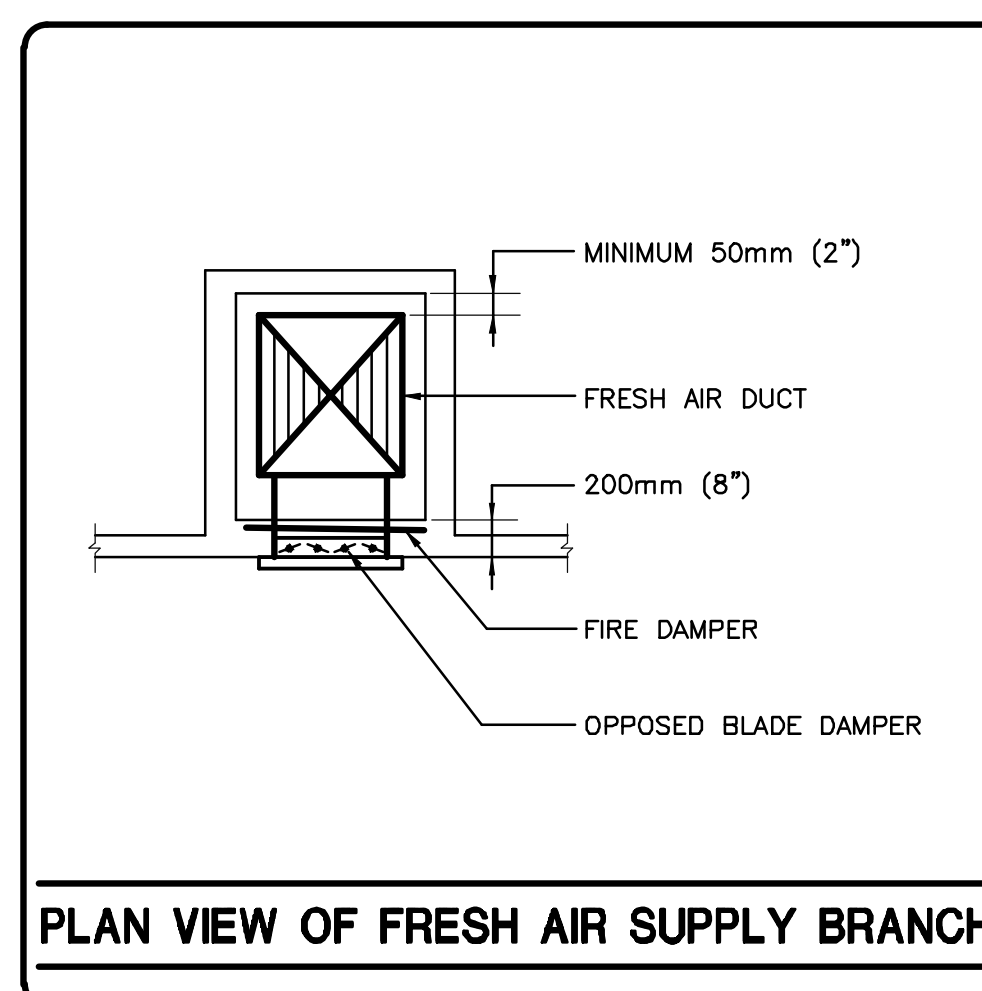
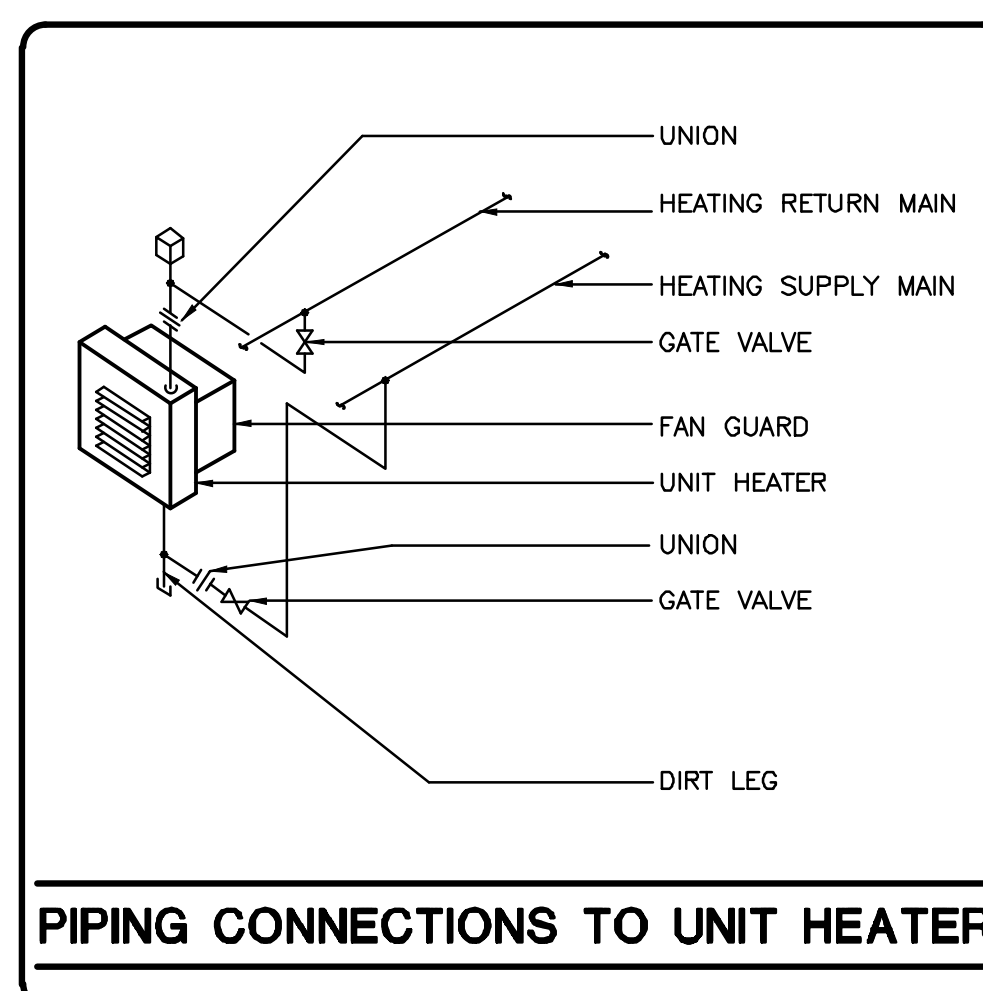
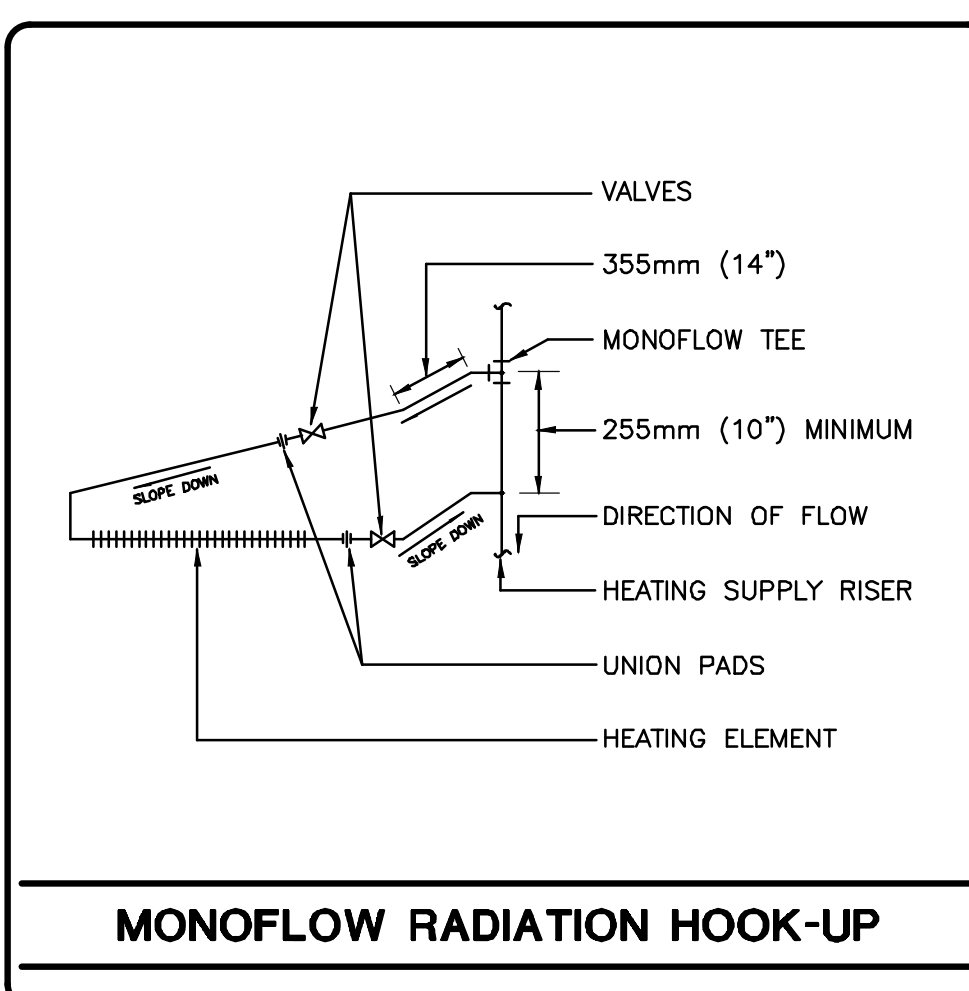
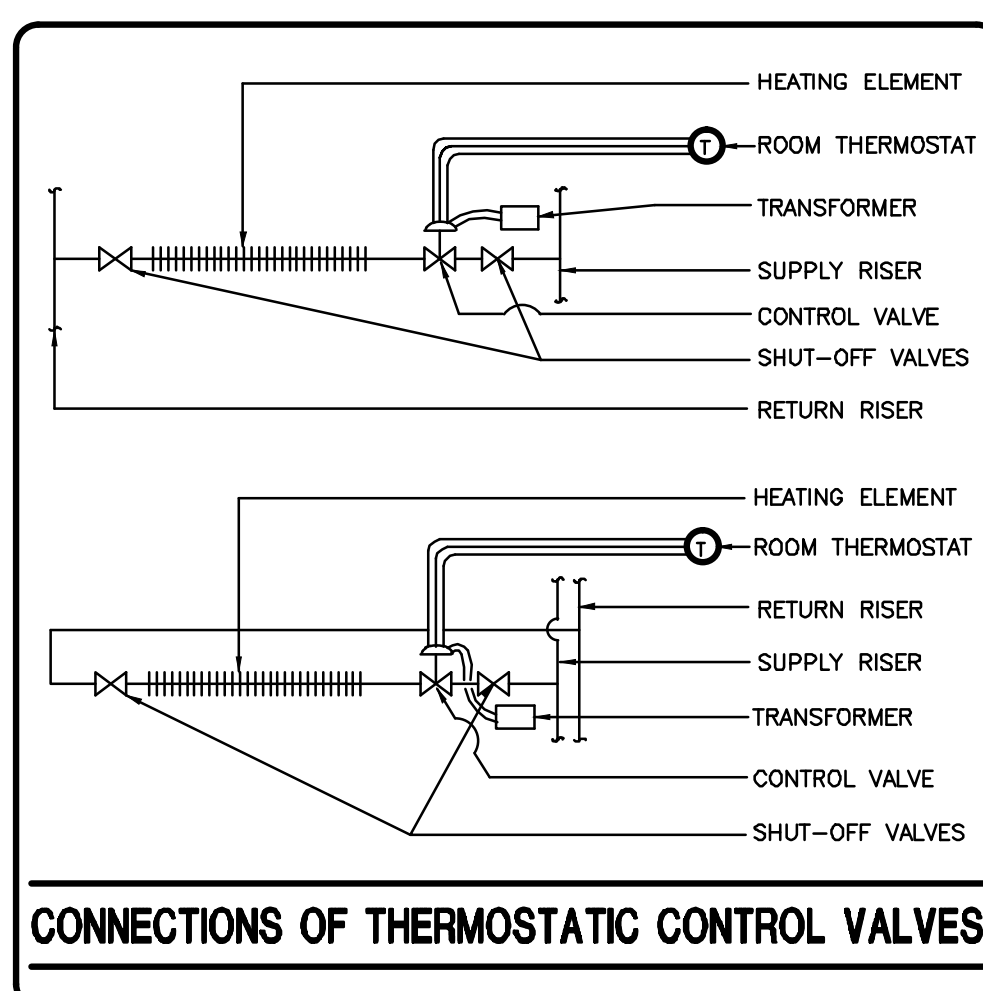
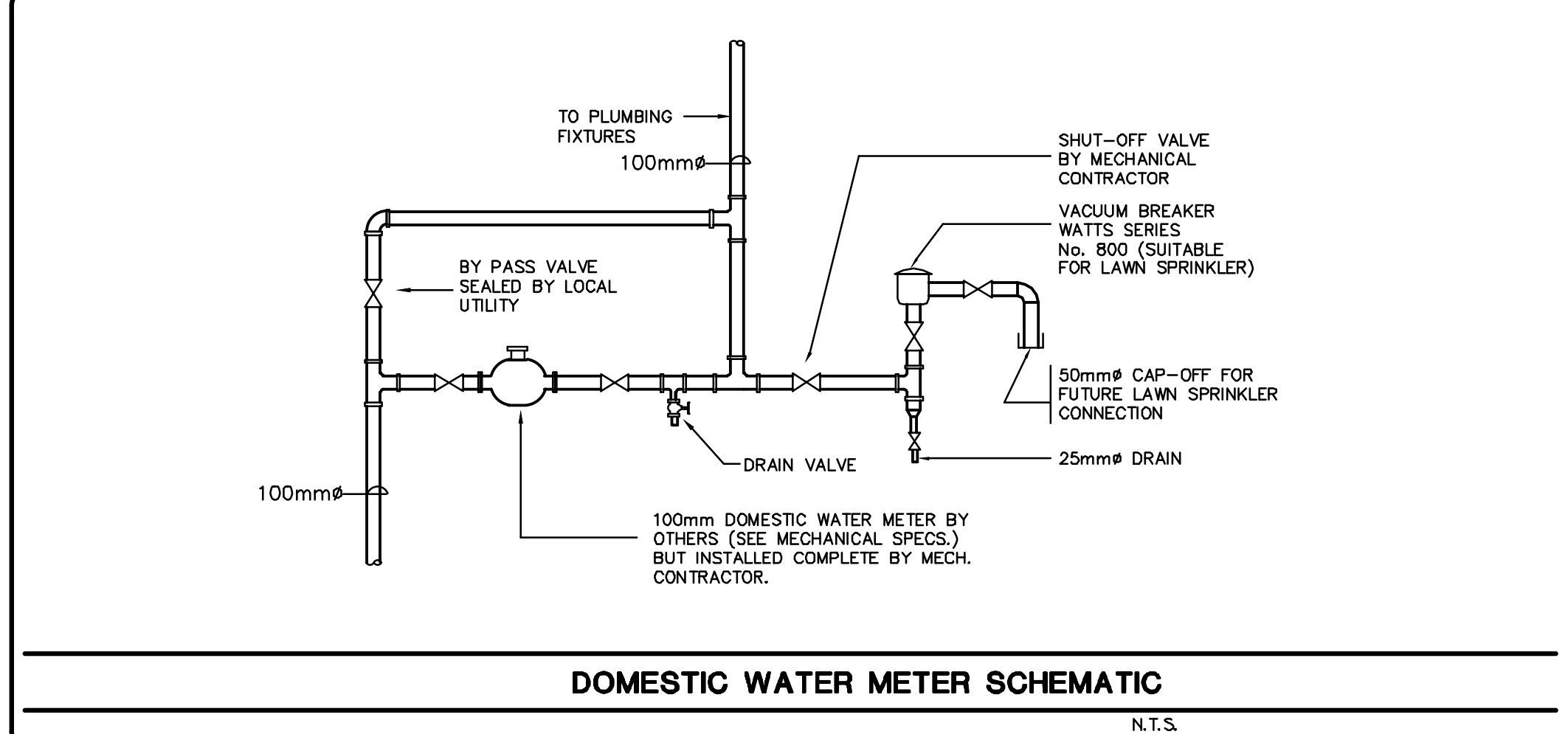
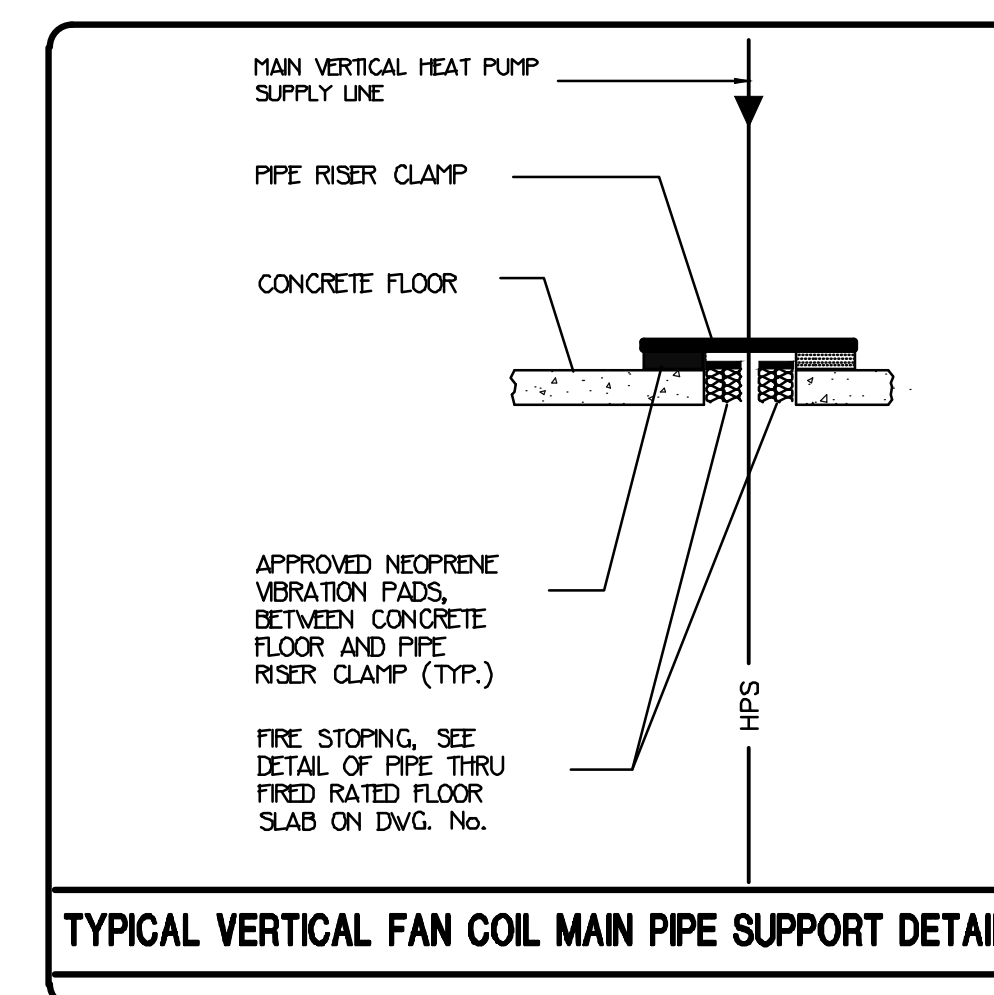
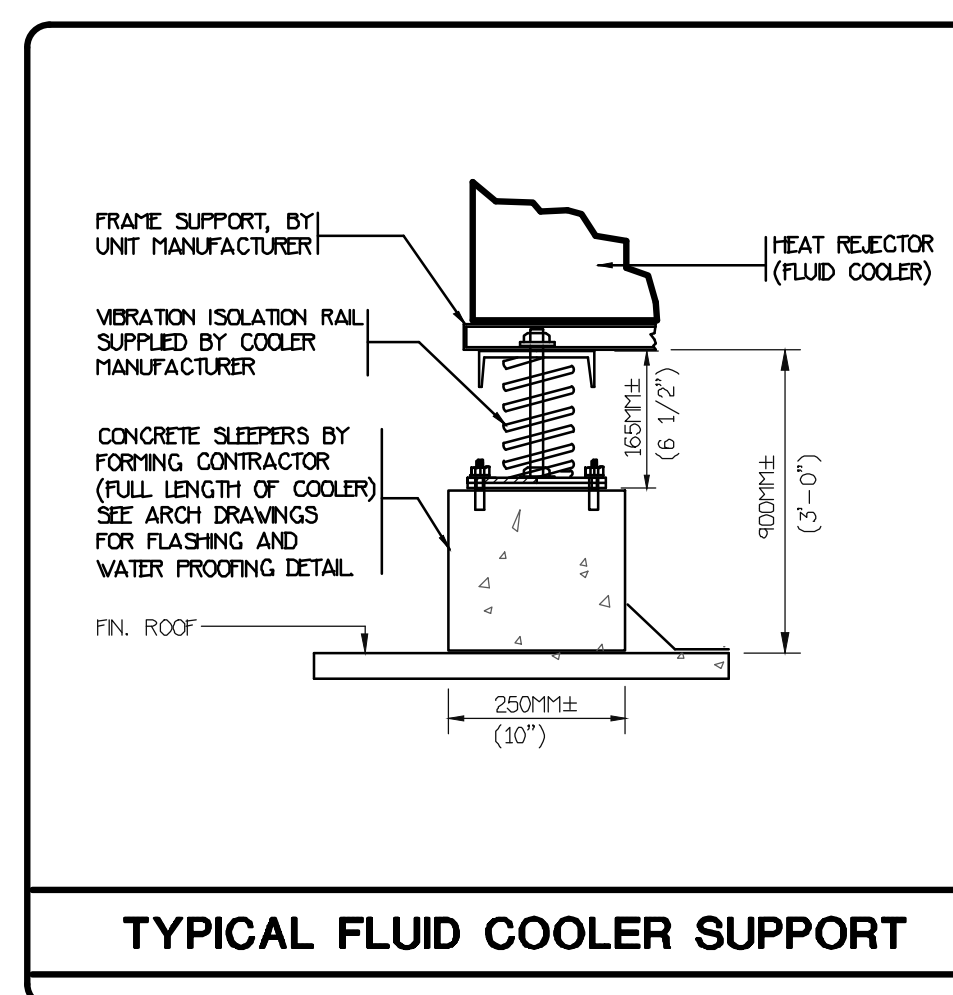
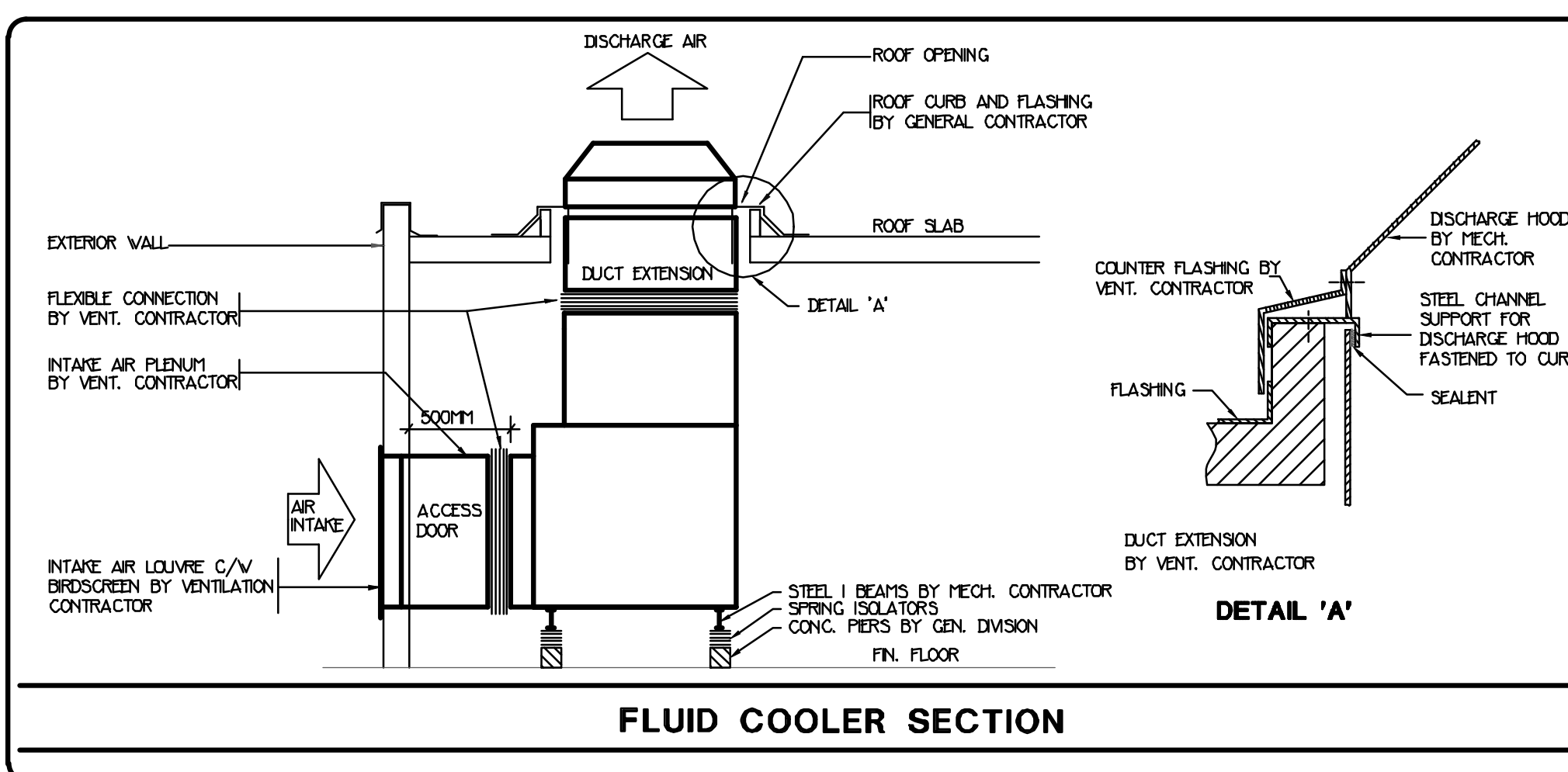
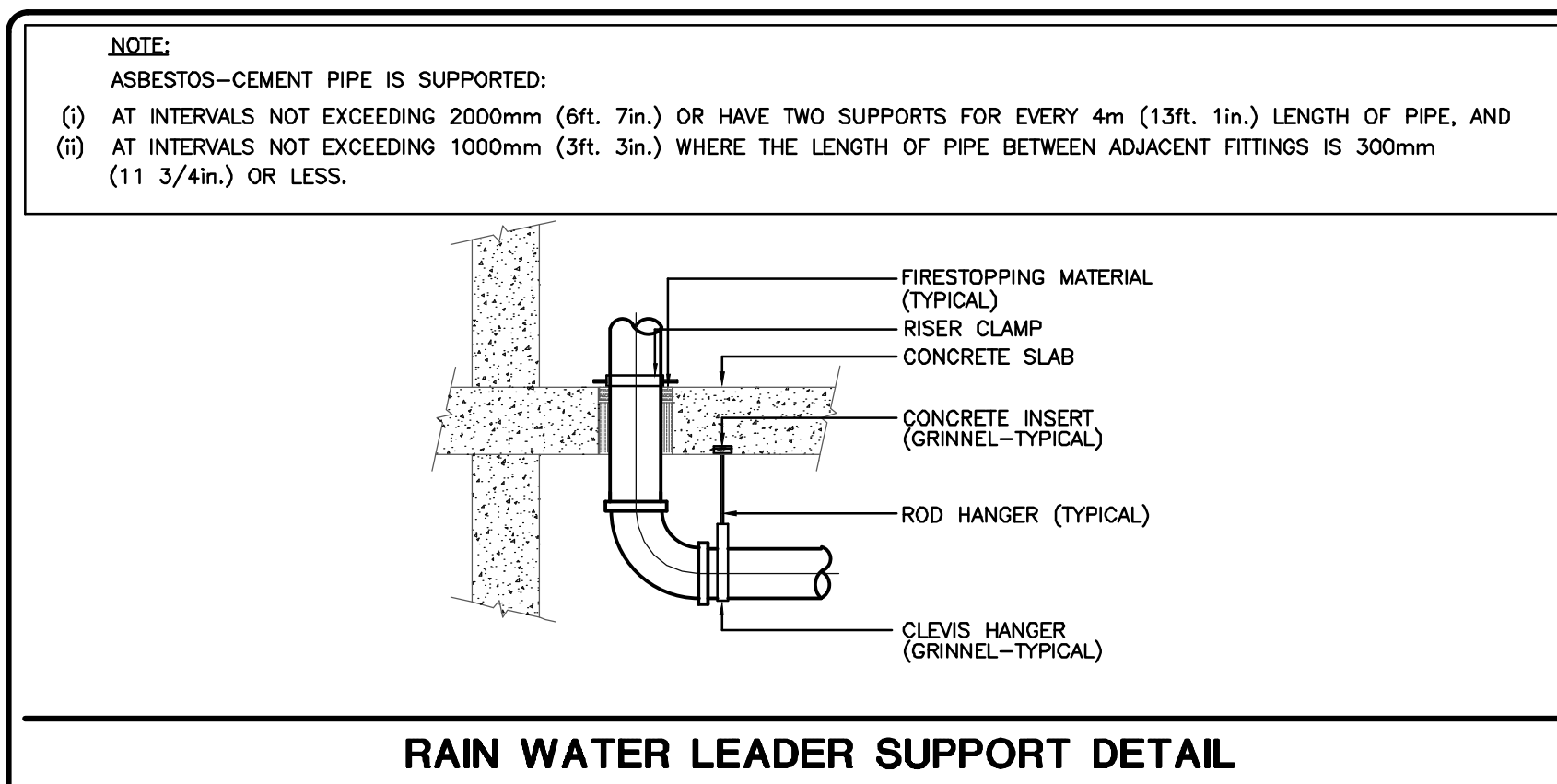
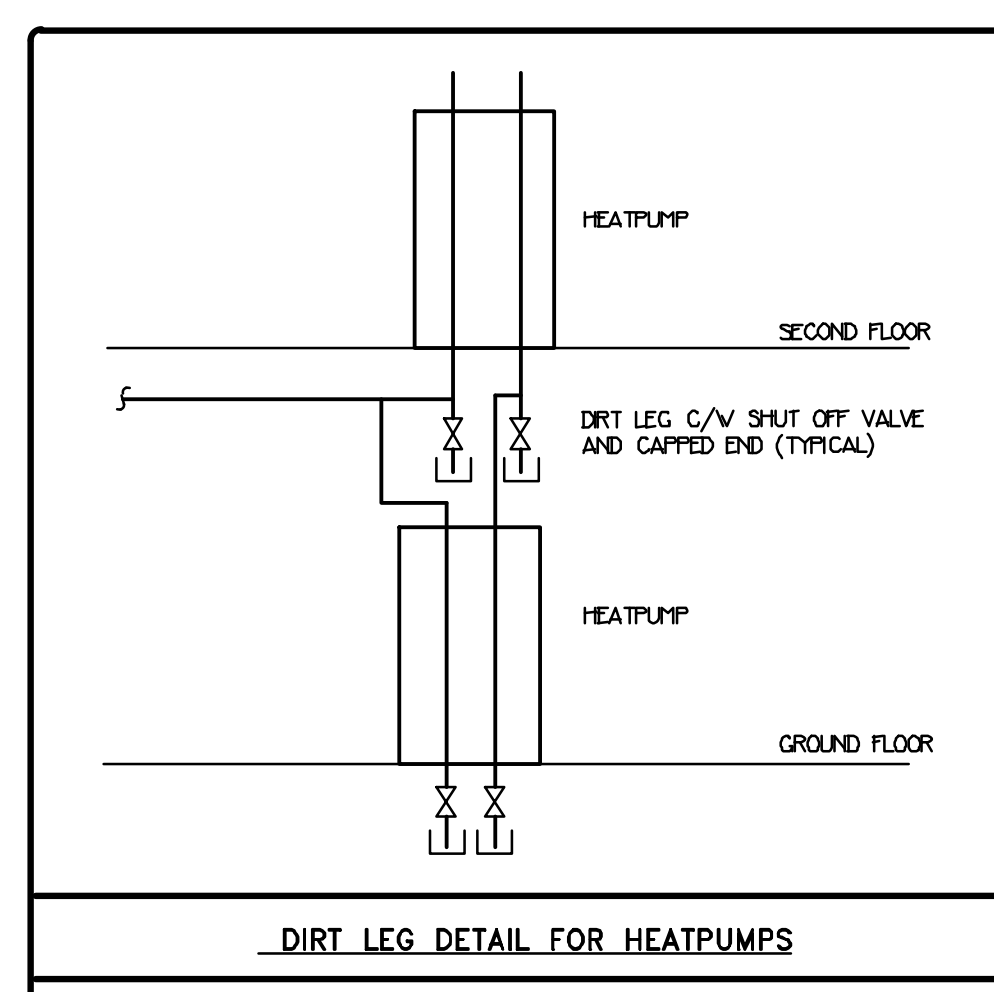
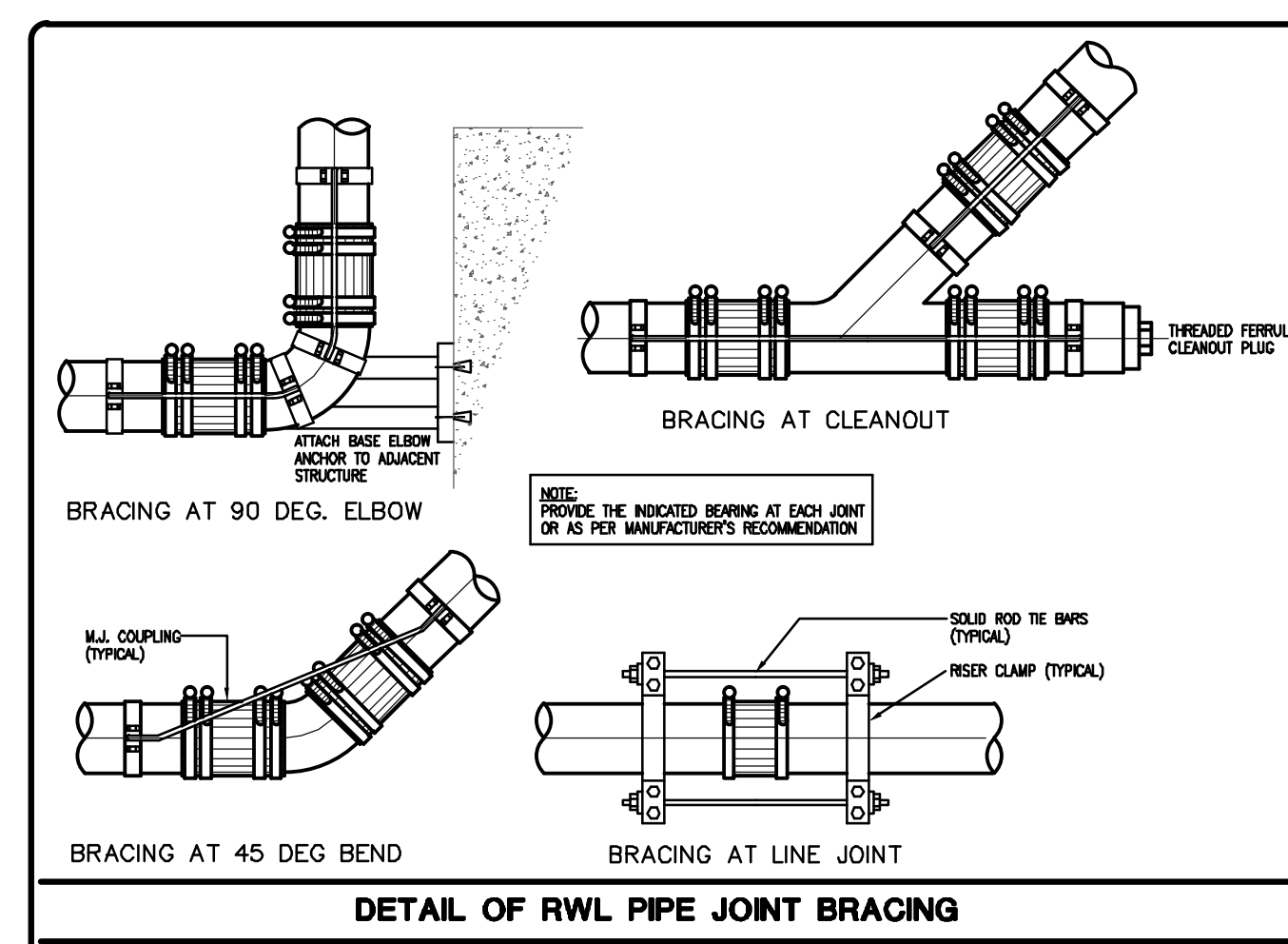
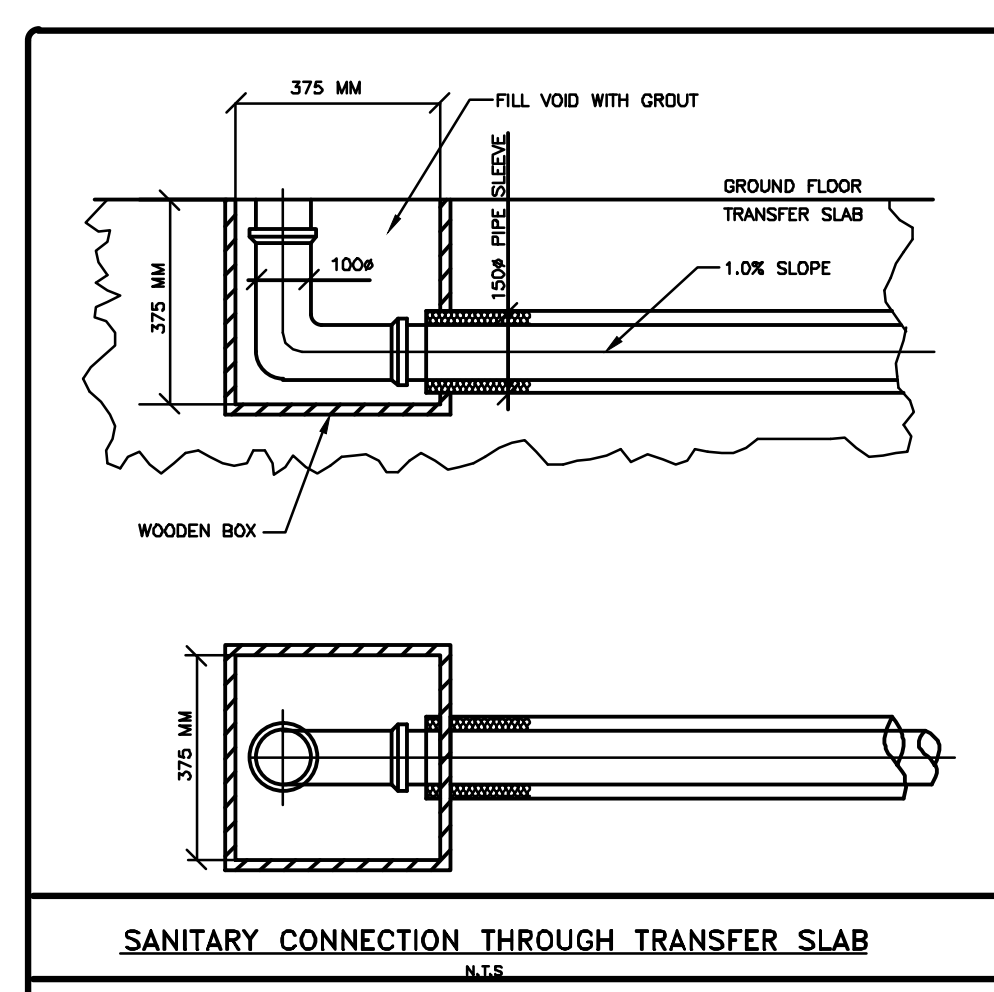
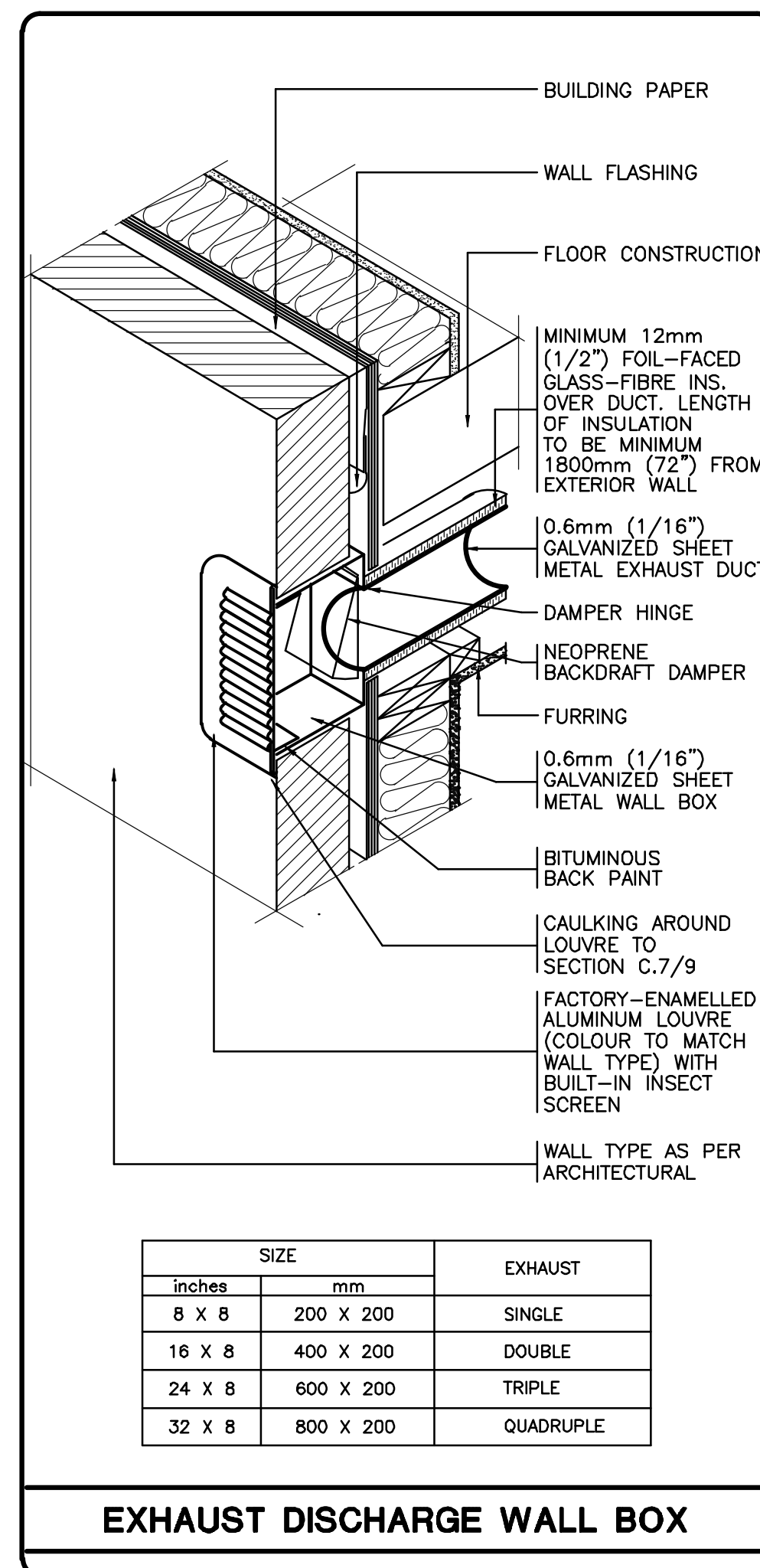
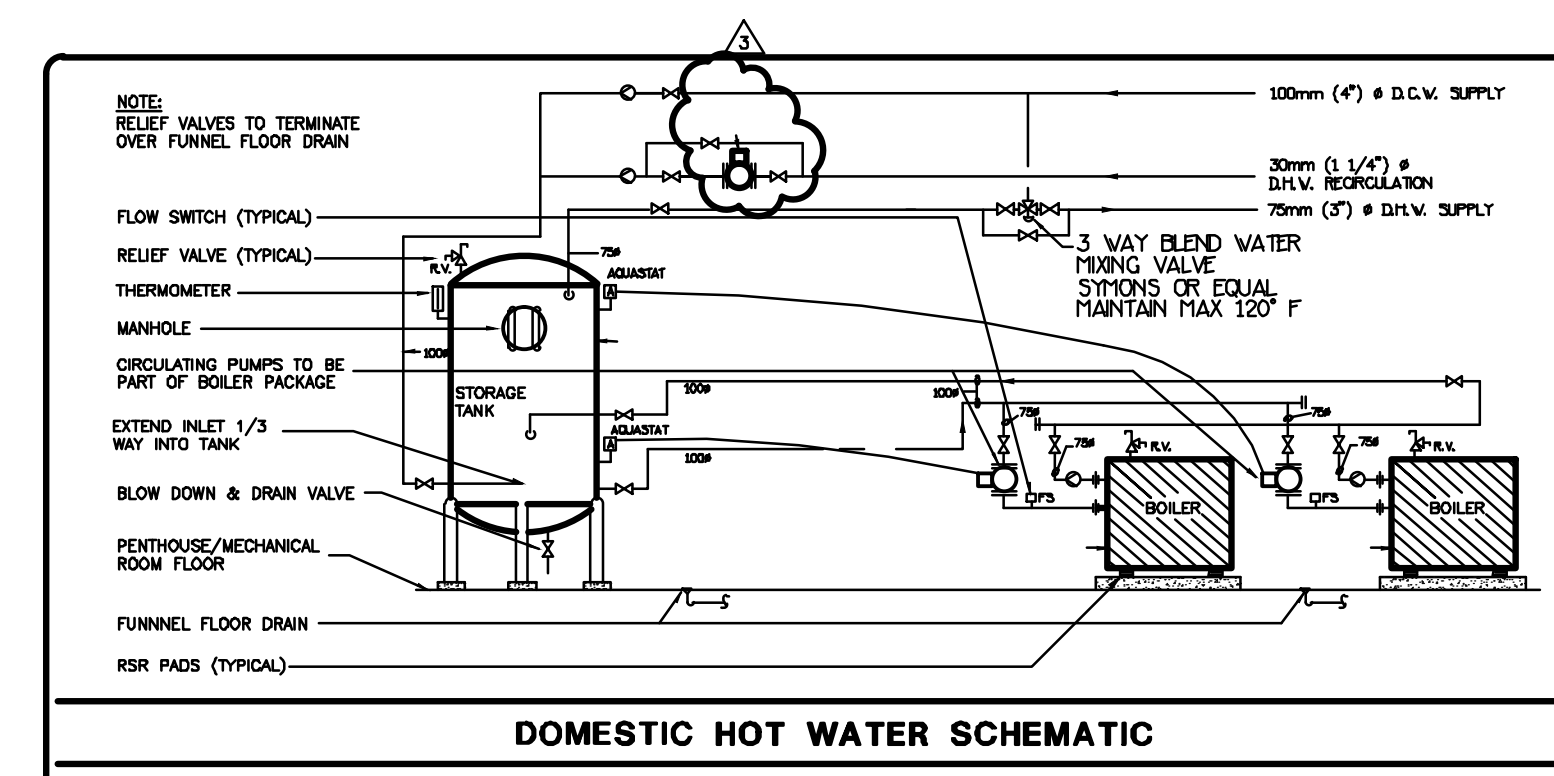
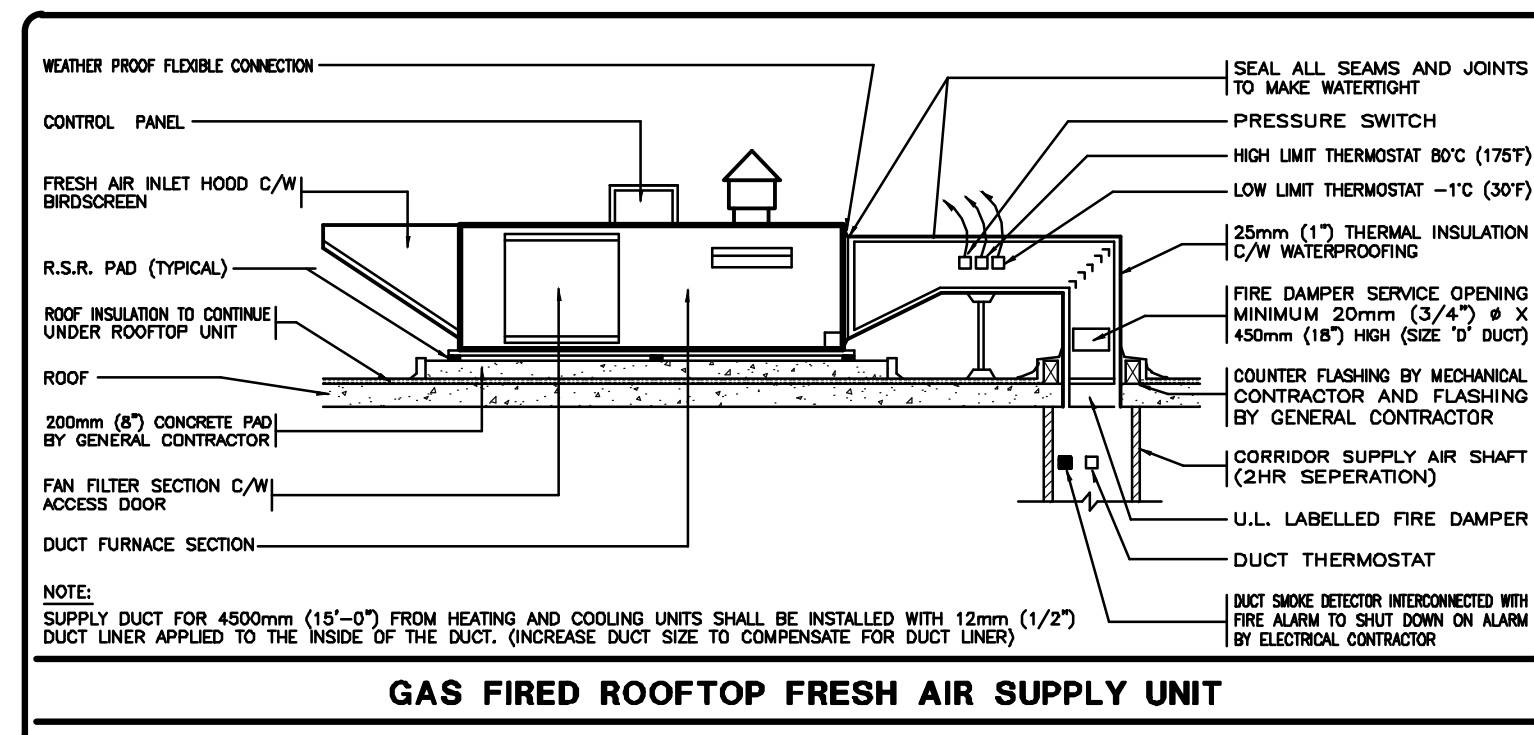
NOTE: FOR SUPPLEMENTAL HEATING IN COMMON AREAS AND SUITES REFER TO CORRESPONDING ELECTRICAL DRAWINGS.

FAN COIL UNIT SCHEDULE									
UNIT No	TYPE	LOCATION	HEATING	COOLING	EXTERNAL	POWER	MAKE	MODEL	REMARKS
			K.W. / M.B.H.	L/S / G.P.M.	K.W. / M.B.H.	L/S / G.P.M.			
(A)	VERTICAL FANCOIL	TYPICAL SUITES	4.09	0.133	2.41	175	120/1/60	UNILUX	COIL-23
(B)	VERTICAL FANCOIL	TYPICAL SUITES	5.71	0.182	3.31	225	120/1/60	UNILUX	COIL-23
(C)	VERTICAL FANCOIL	TYPICAL SUITES	29.00	2.40	13.50	450	120/1/60	UNILUX	COIL-23
(D)	VERTICAL FANCOIL	TYPICAL SUITES	12.91	0.303	6.65	400	120/1/60	UNILUX	COIL-23
(E)	HORIZONTAL FANCOIL	GROUND FLOOR	24.00	3.0	18.00	3.5	1/6 HP	CARRIER	42000R
(F)	HORIZONTAL FANCOIL	GROUND FLOOR	36.00	4.8	24.00	8.0	1/6 HP	CARRIER	42000R

NOTE: ALL FANCOIL UNITS SHALL BE C/V ELECTRIC HEATERS - SUITES WITH ONE FANCOIL UNIT SHALL BE C/V 3000 WATT ELECTRIC HEATERS - SUITES WITH MULTIPLE FANCOIL UNITS SHALL BE C/V 750 WATT ELECTRIC HEATERS EACH

EQUIPMENT SCHEDULE									
UNIT No	DESCRIPTION	LOCATION	HEATING	COOLING	EXTERNAL	POWER	MAKE	MODEL	REMARKS
			K.W. / M.B.H.	L/S / G.P.M.	K.W. / M.B.H.	L/S / G.P.M.			
(C-1)	CHILLER	ROOF		230 TONS	430 DWT	245 KW	600/3/60	ENG ART	FW353/D3000
(C-2)	WATER-UP AIR UNIT	ROOF		120 TONS	210 DWT	120 KW	600/3/60	ENG ART	FW353/D3000
(C-3)	WATER-UP AIR UNIT	ROOF		120 TONS	210 DWT	120 KW	600/3/60	ENG ART	FW353/D3000
(C-4)	WATER-UP AIR UNIT	ROOF		120 TONS	210 DWT	120 KW	600/3/60	ENG ART	FW353/D3000
(C-5)	WATER-UP AIR UNIT	ROOF		120 TONS	210 DWT	120 KW	600/3/60	ENG ART	FW353/D3000
(C-6)	WATER-UP AIR UNIT	ROOF		120 TONS	210 DWT	120 KW	600/3/60	ENG ART	FW353/D3000
(C-7)	WATER-UP AIR UNIT	ROOF		120 TONS	210 DWT	120 KW	600/3/60	ENG ART	FW353/D3000
(C-8)	WATER-UP AIR UNIT	ROOF		120 TONS	210 DWT	120 KW	600/3/60	ENG ART	FW353/D3000
(C-9)	WATER-UP AIR UNIT	ROOF		120 TONS	210 DWT	120 KW	600/3/60	ENG ART	FW353/D3000
(C-10)	WATER-UP AIR UNIT	ROOF		120 TONS	210 DWT	120 KW	600/3/60	ENG ART	FW353/D3000
(C-11)	WATER-UP AIR UNIT	ROOF		120 TONS	210 DWT	120 KW	600/3/60	ENG ART	FW353/D3000

FAN SCHEDULE (PHASE I AND II)											
NO.	TYPE	LOCATION	CAPACITY CFM	BIOMASS LBS	RPM	H.P. K.W.	ELECTRICAL CHARACTERISTICS	MAKE	MODEL	OPENING SCHEDULE IN	REMARKS
(F-1)	EXHAUST	SUITE	300	30	1100	0.25HPS	120/1/60	DOPEX	DOPEX	DOPEX	DOPEX DO



4	LB	REVISED AS PER SITE INSTRUCTION T1-5		AUG/09/2017
3	LD	ISSUED FOR CONSTRUCTION		
2	LD	PROGRESS FOR CONSTRUCTION		JUL/18/2017
2	LH	ISSUED FOR PERMIT		DEC/08/2016
1	LH	ISSUED FOR TENDER		MAR/24/2016
NO.	BY	DESCRIPTION		DATE
REVISIONS				

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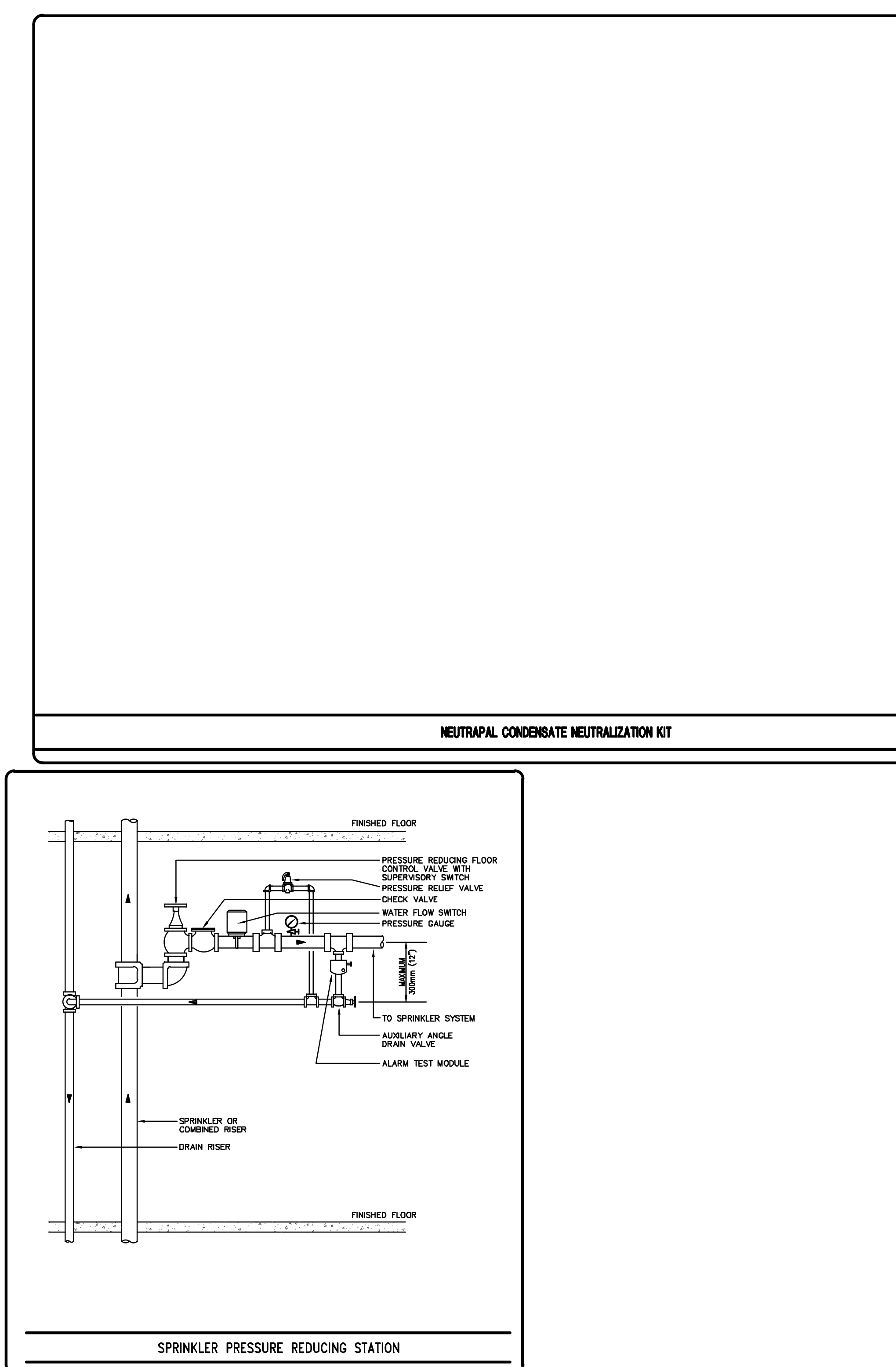
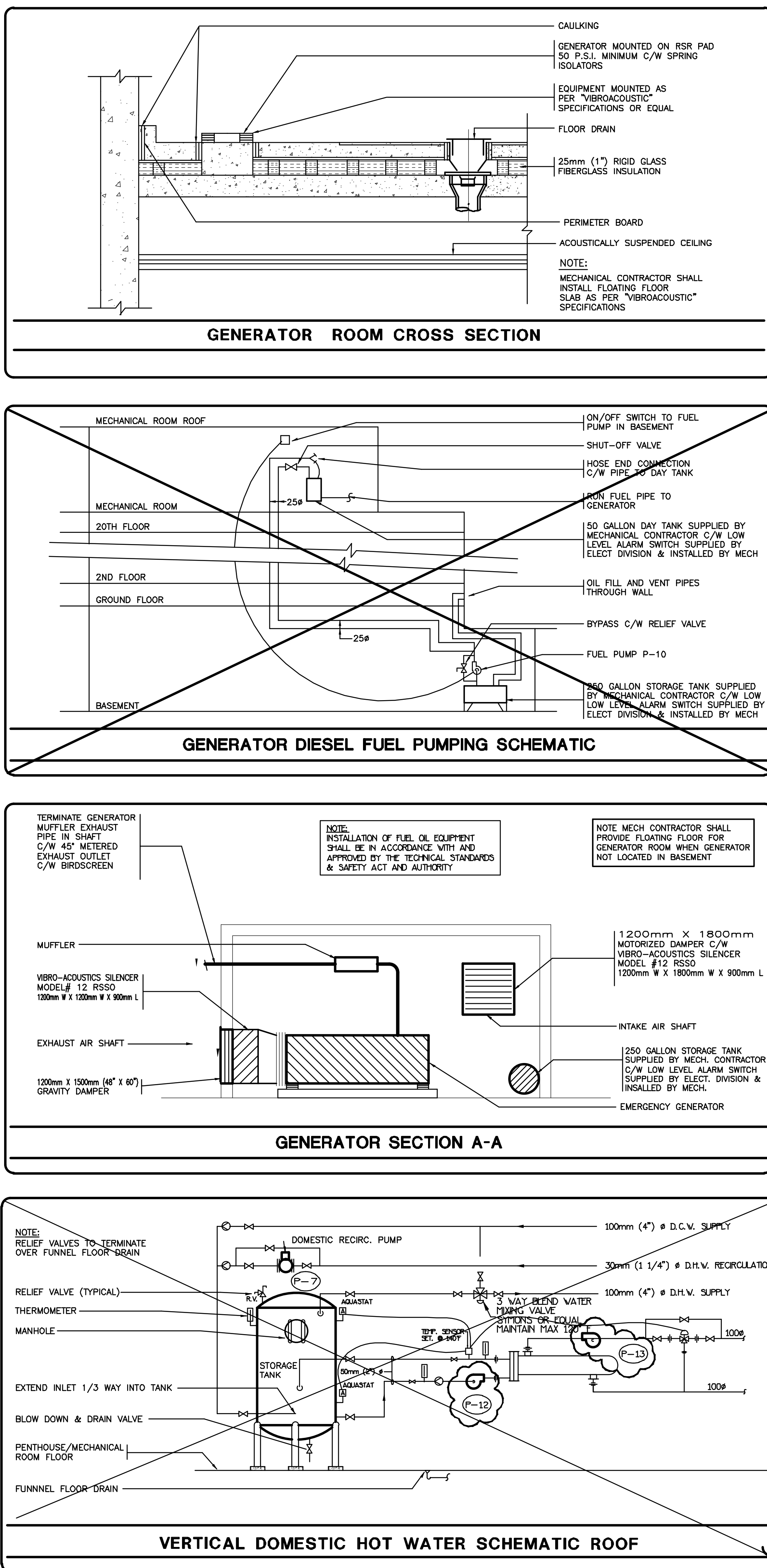
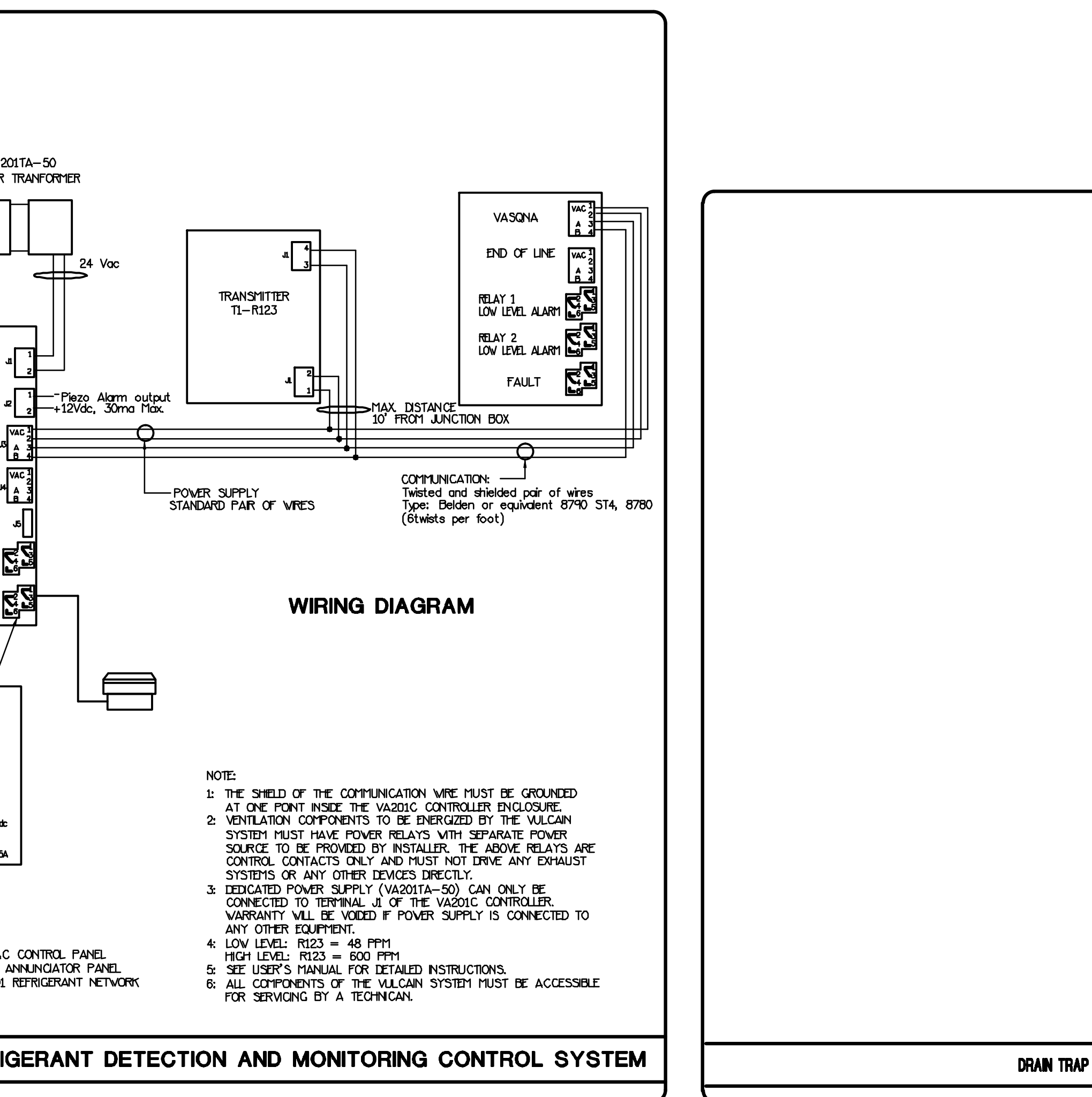
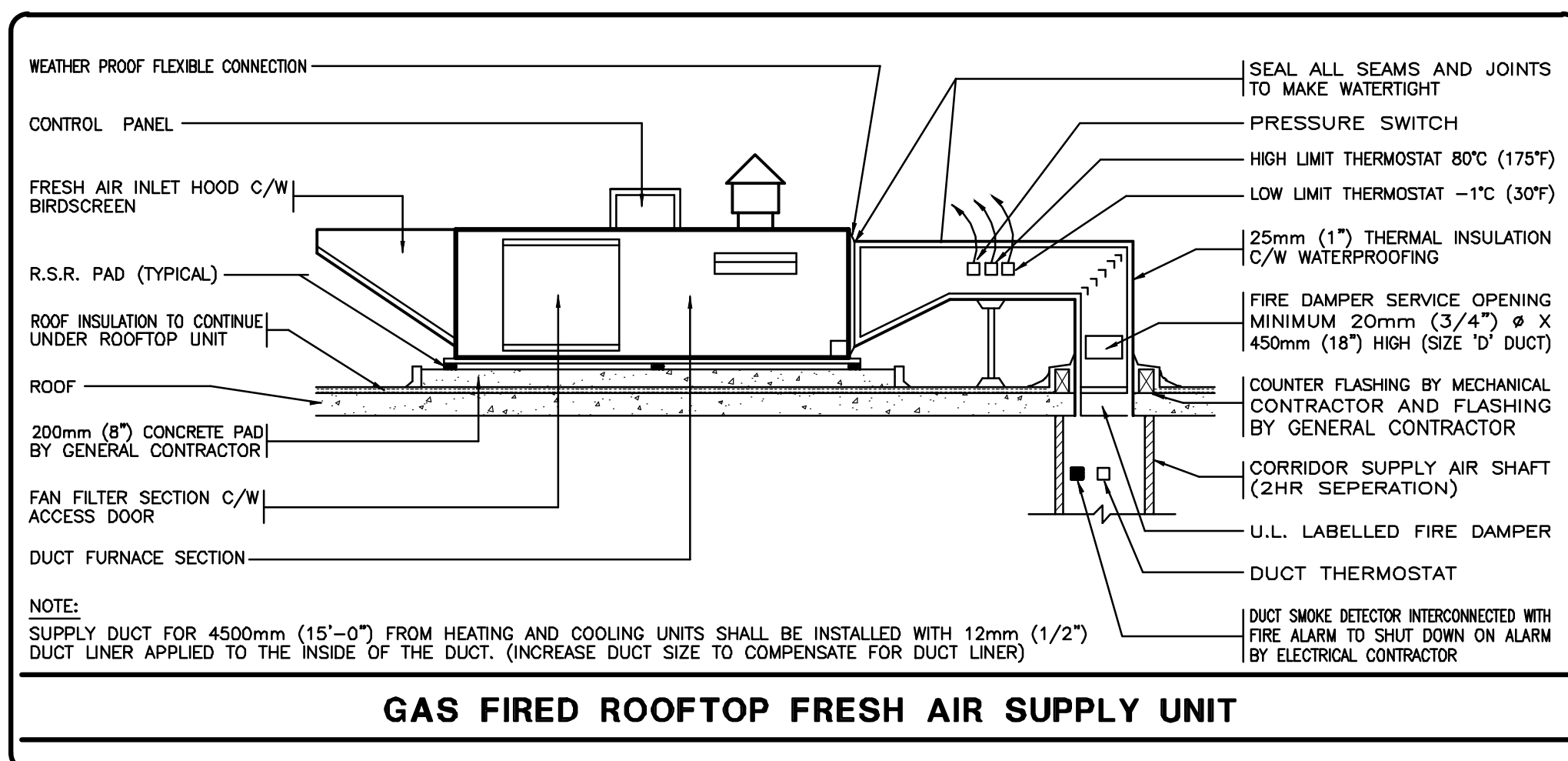
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DETAILS MECHANICAL

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-40 OF 42

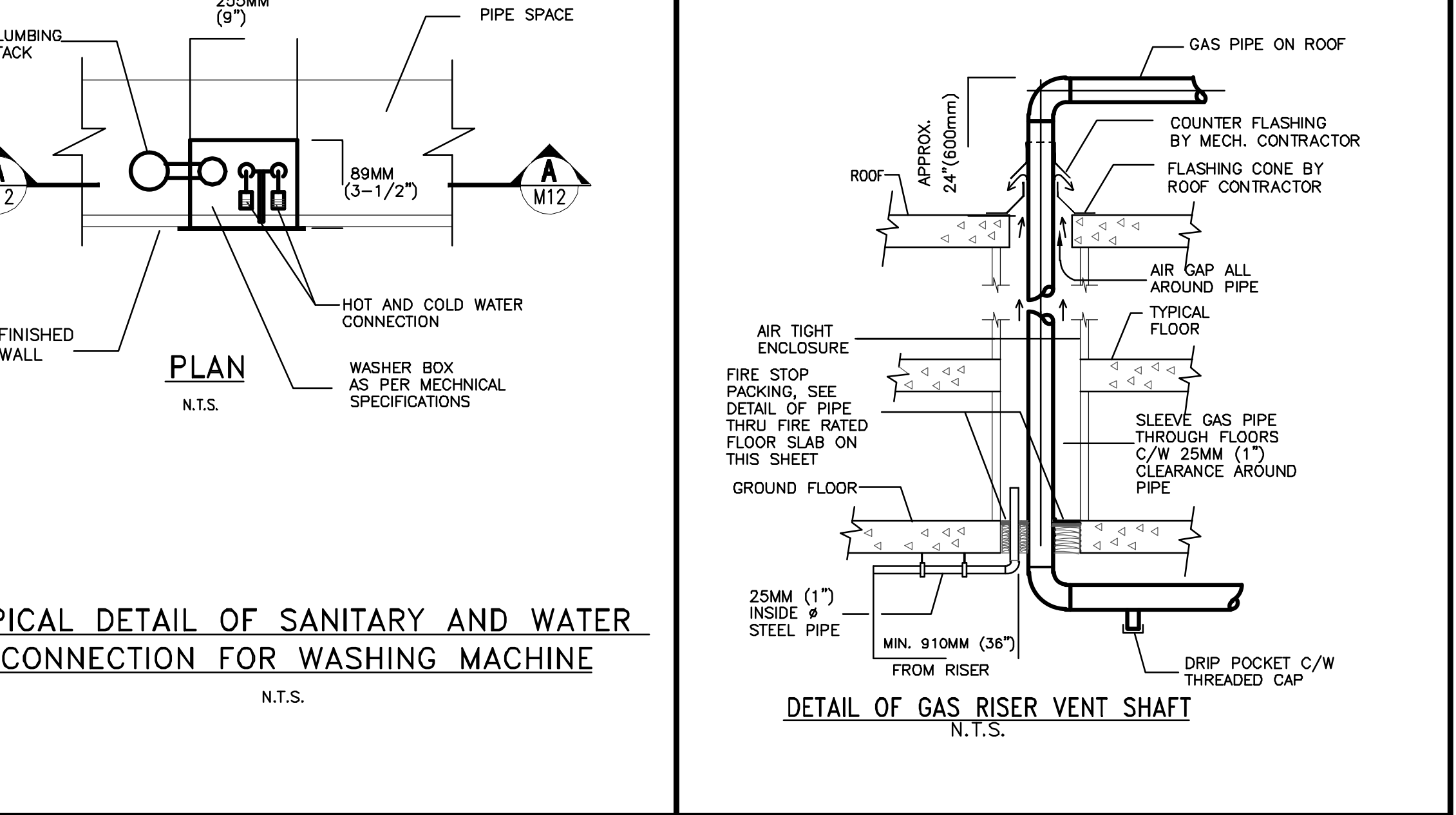
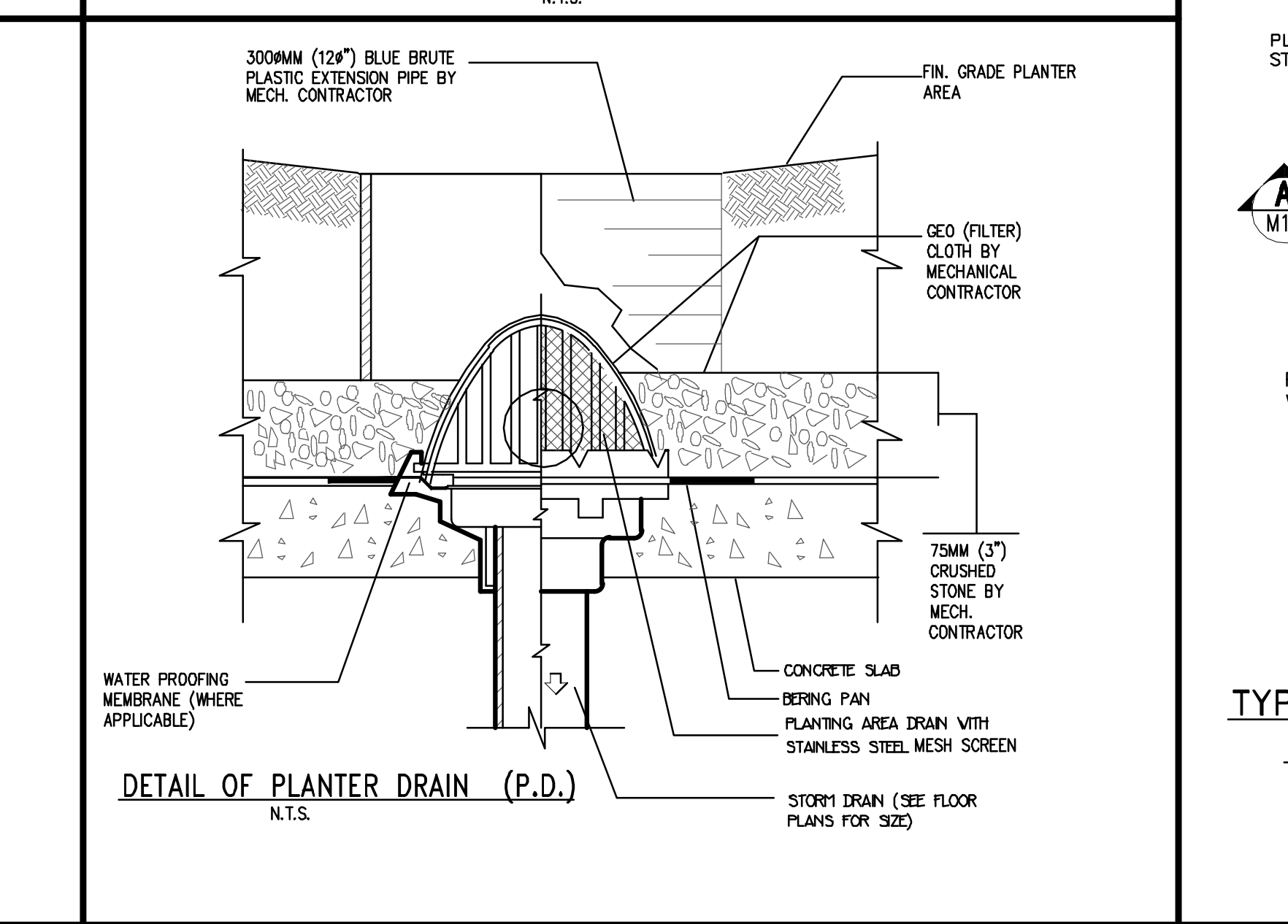
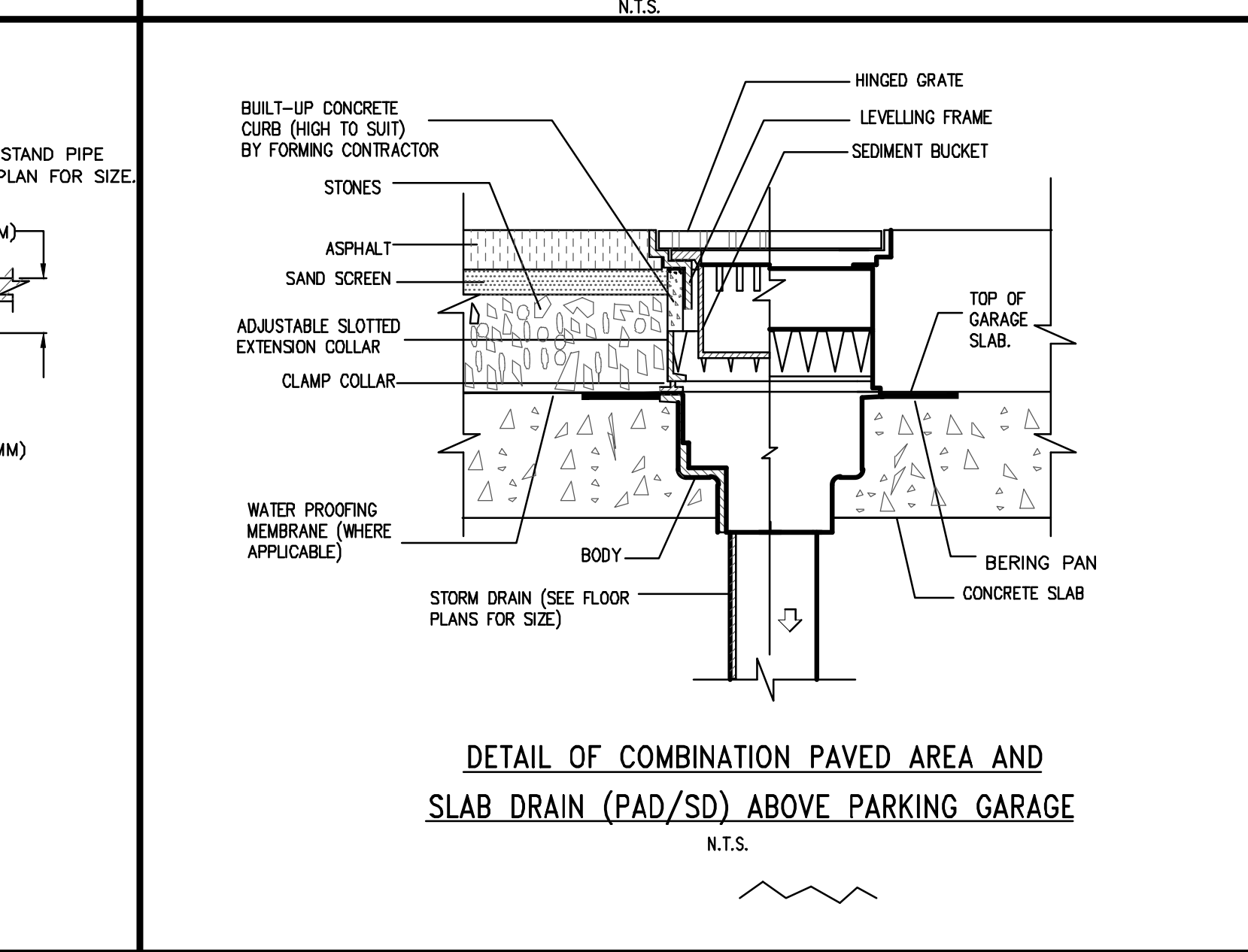
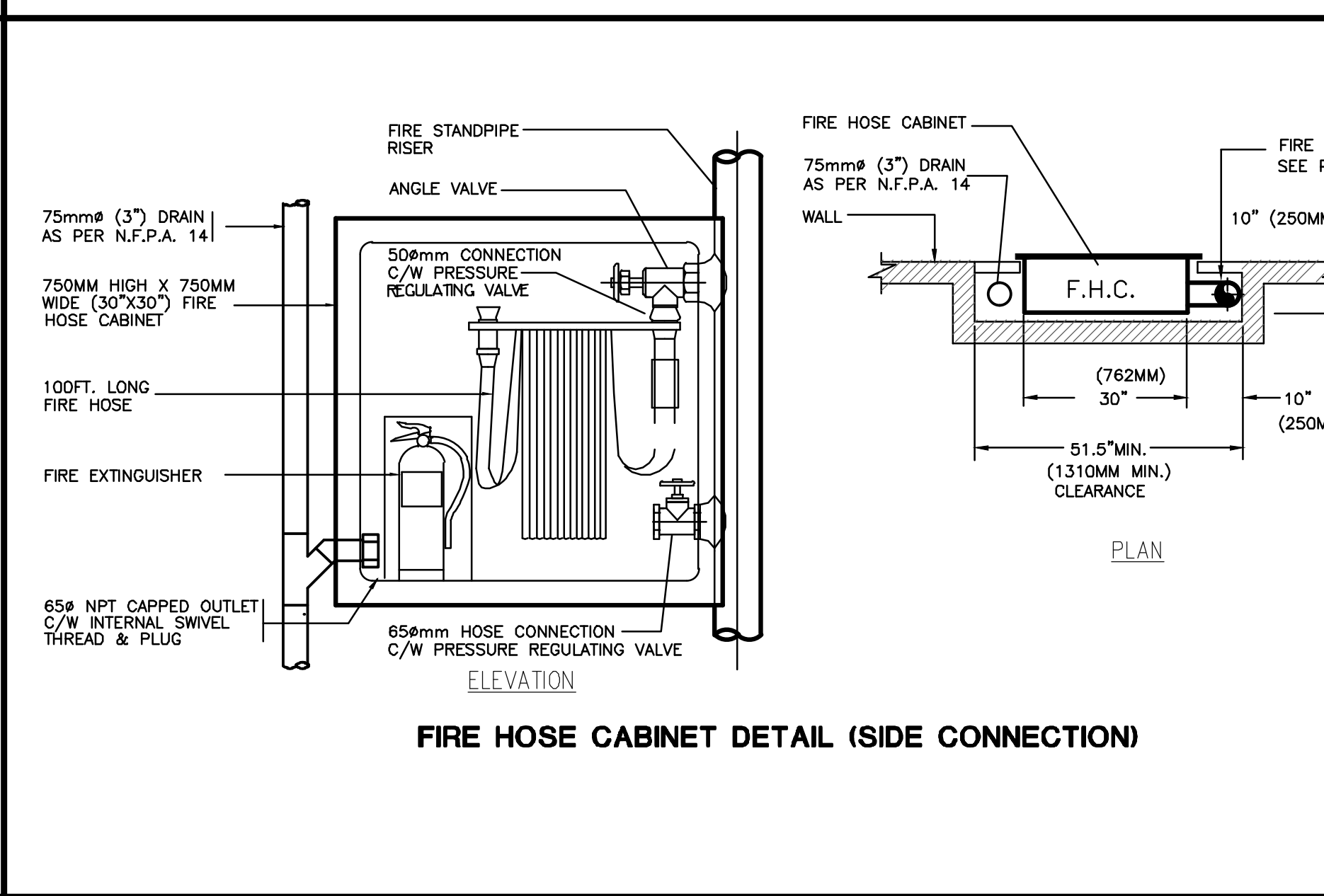
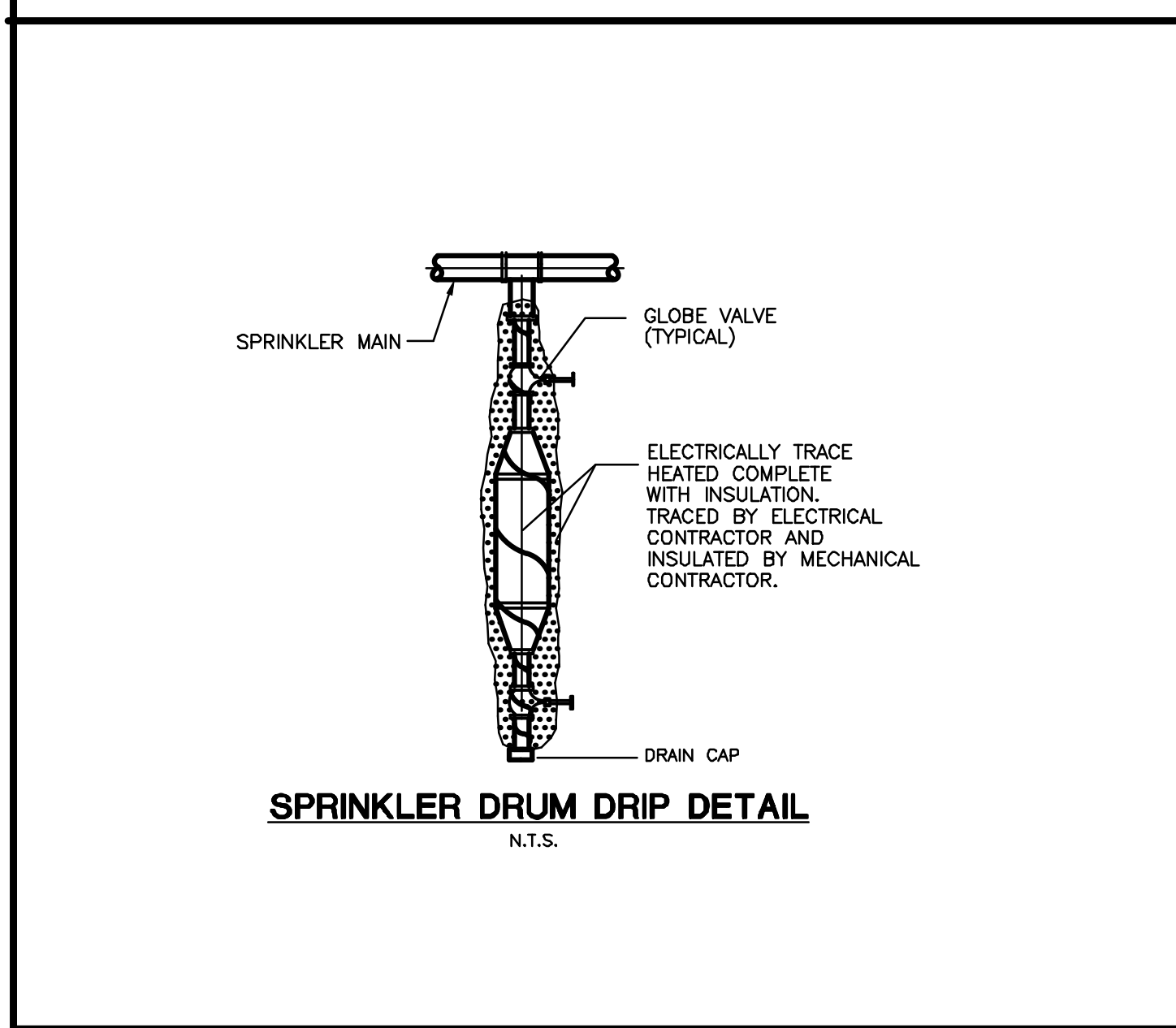
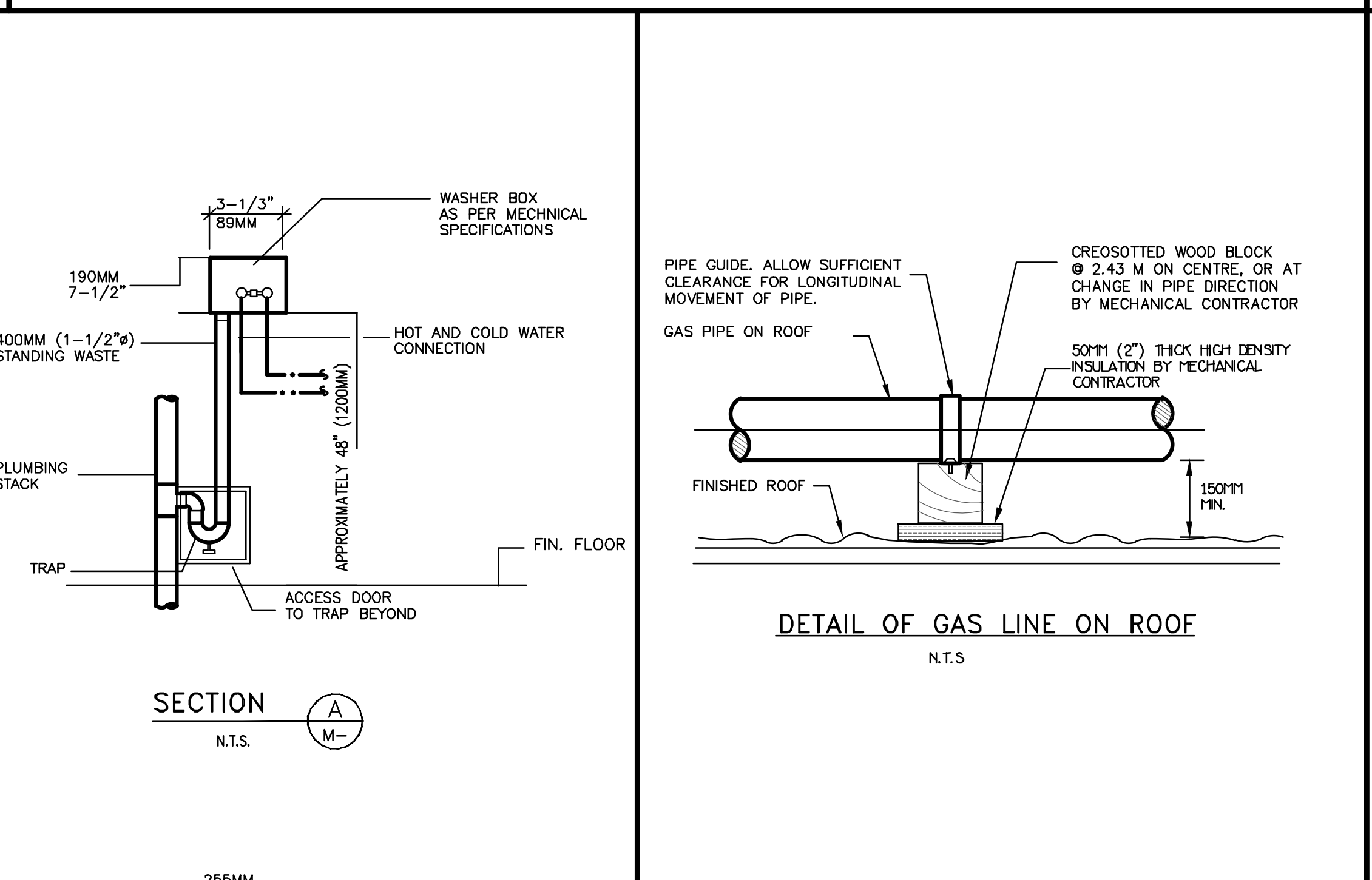
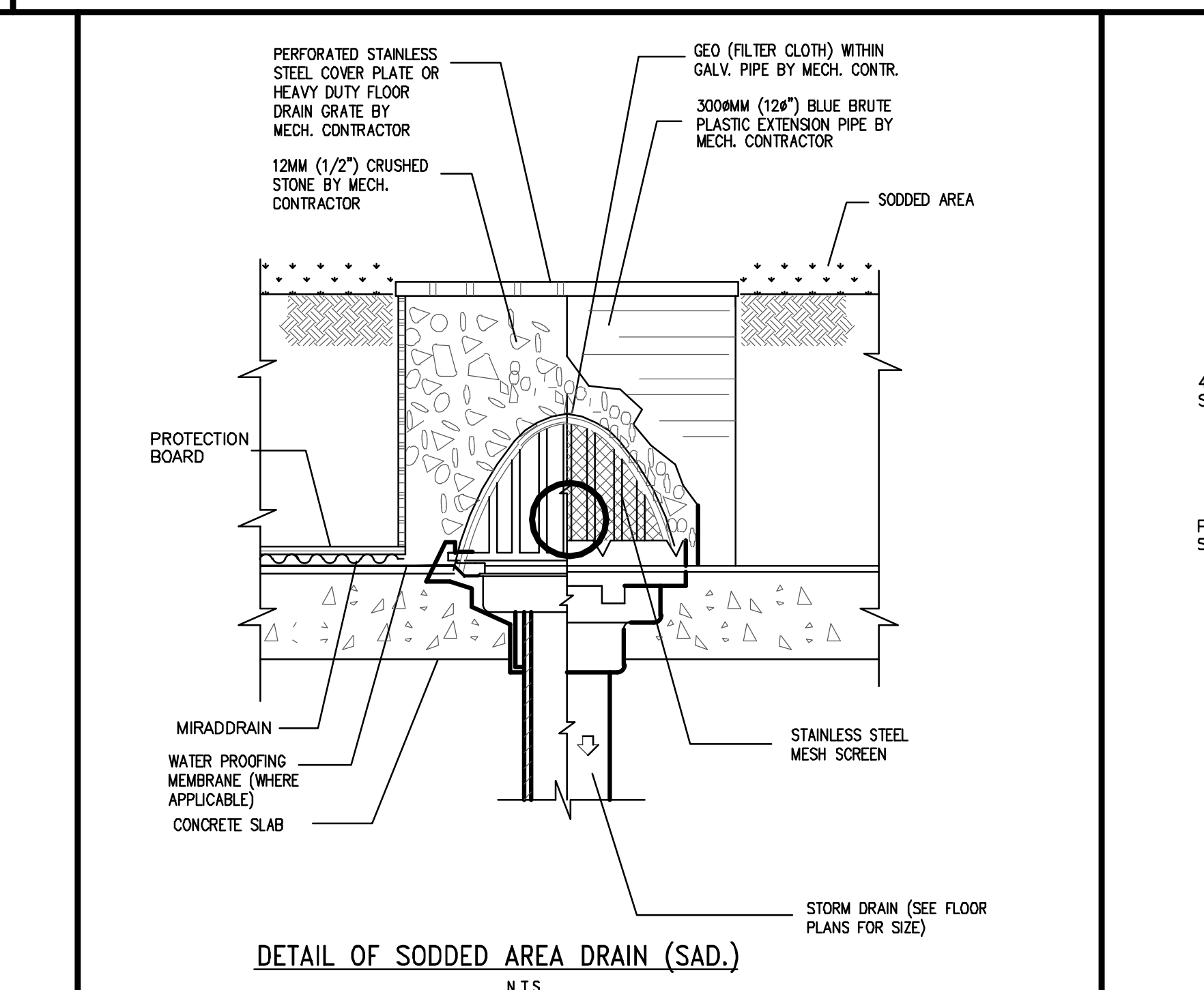
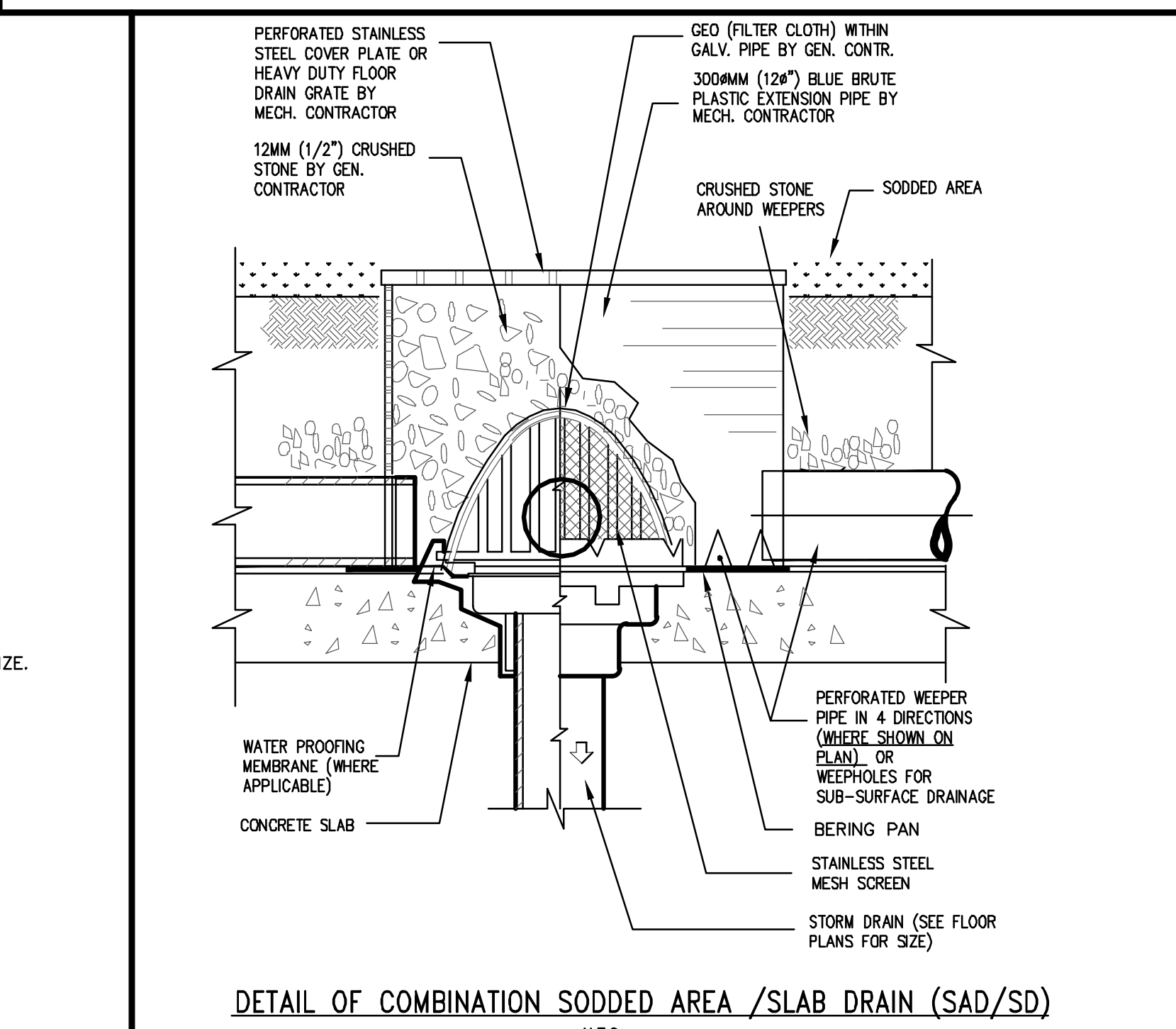
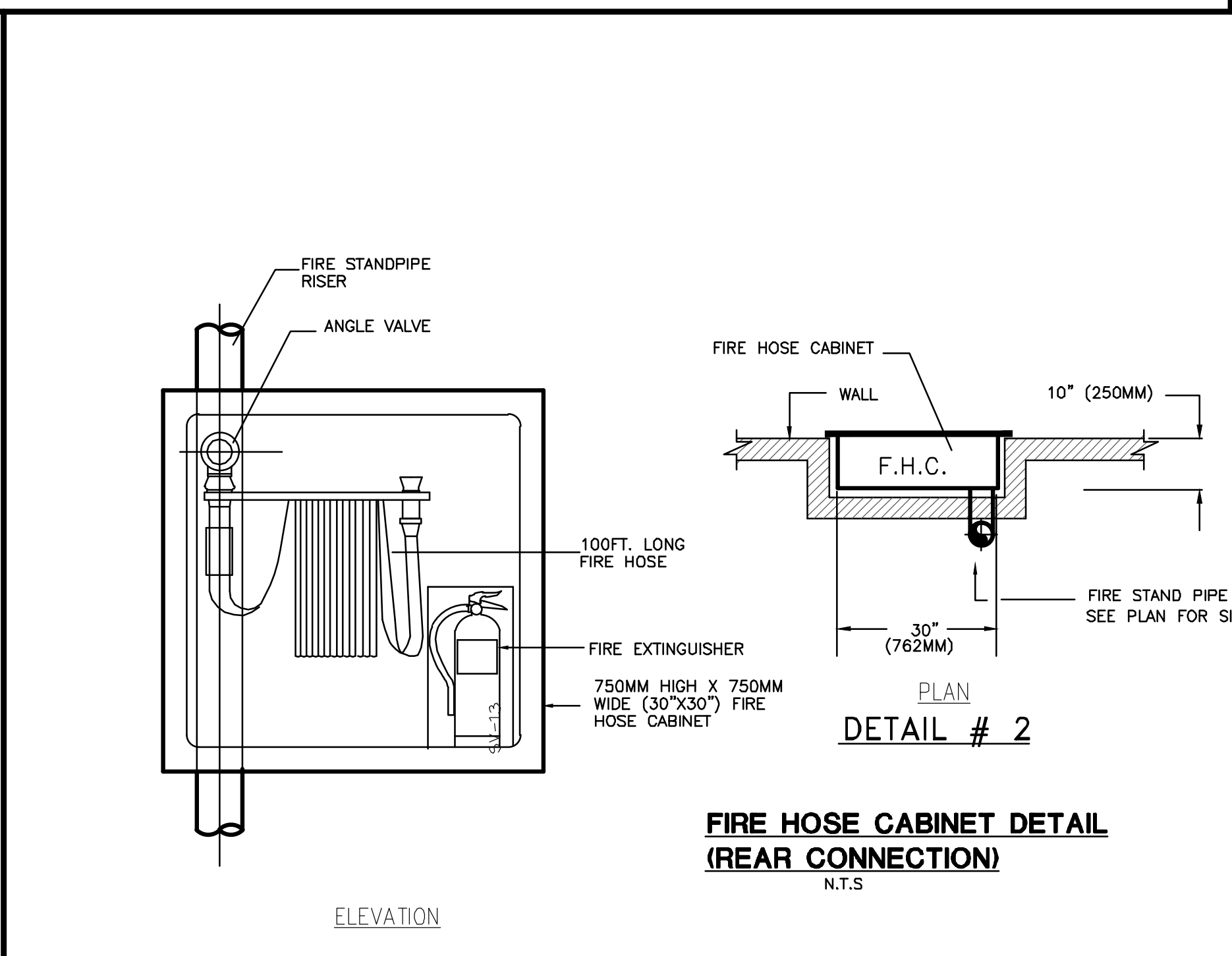
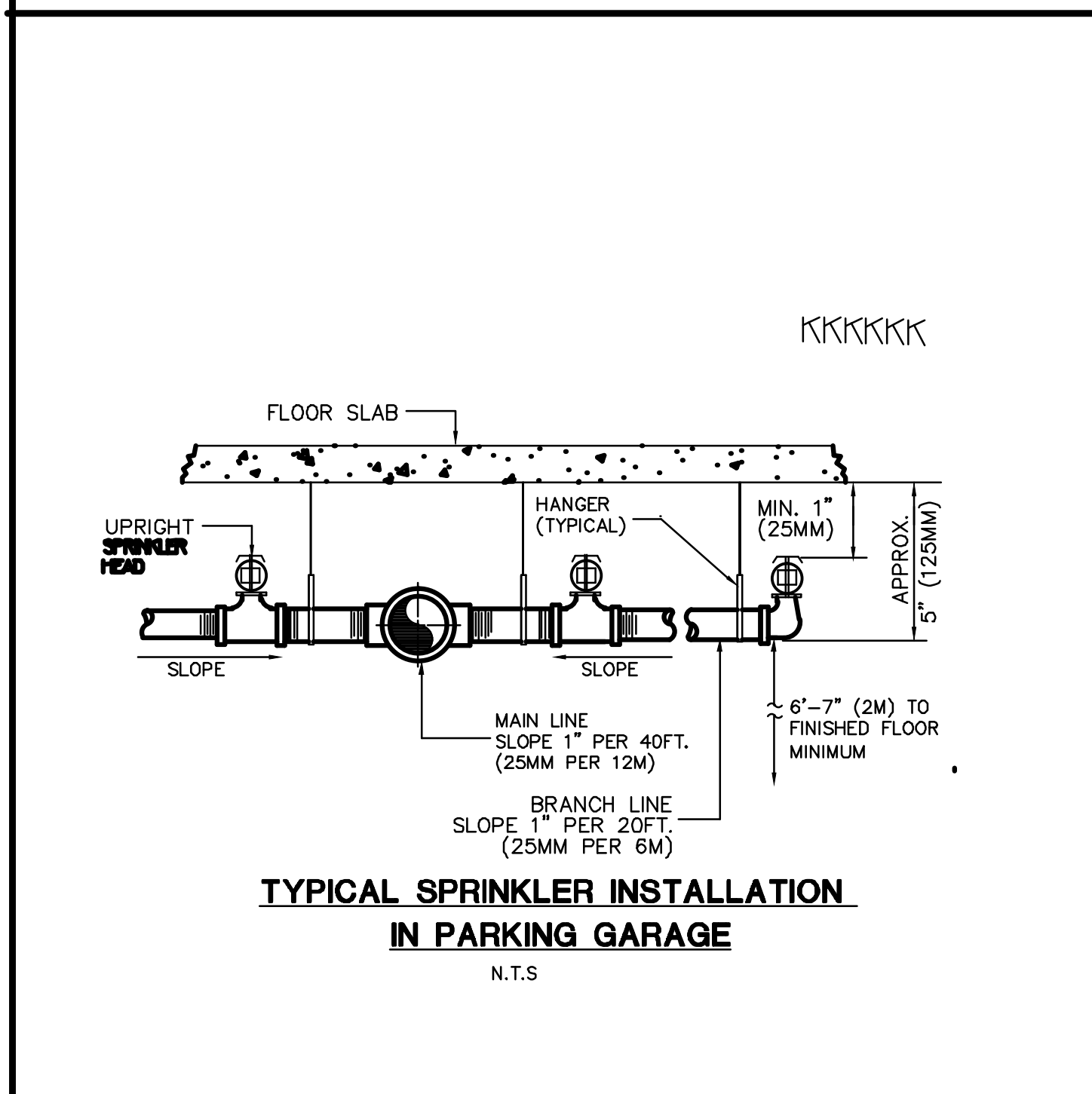
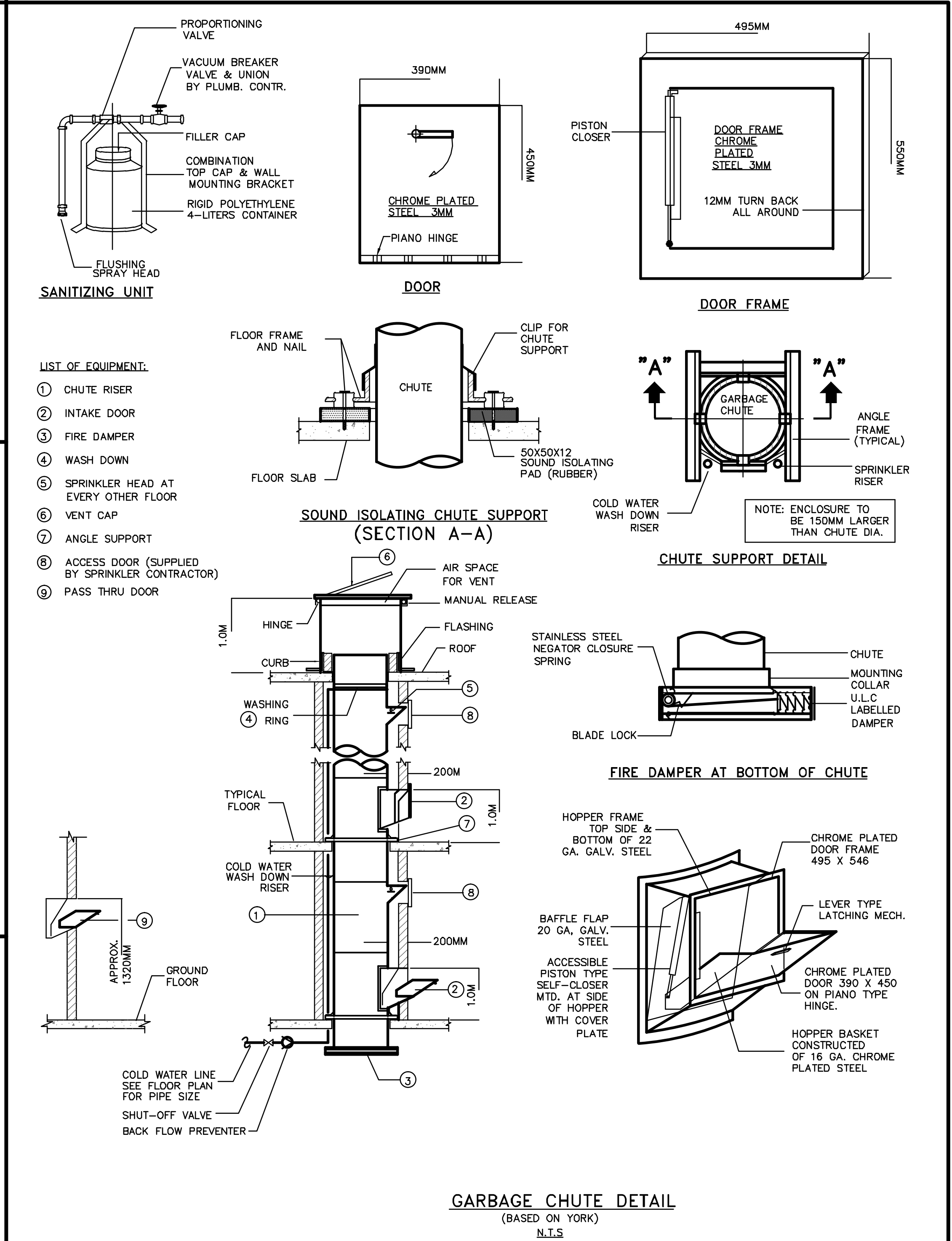
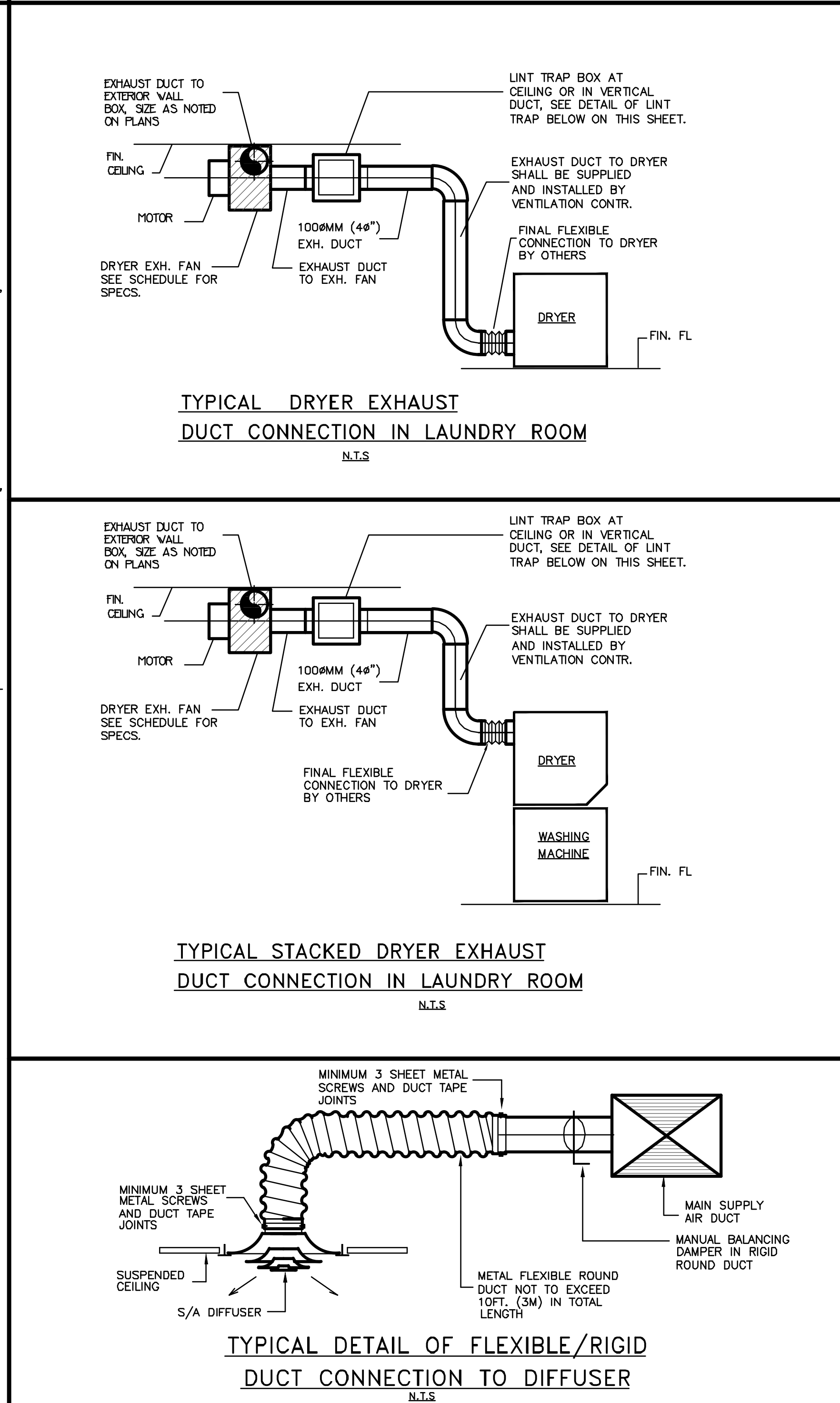
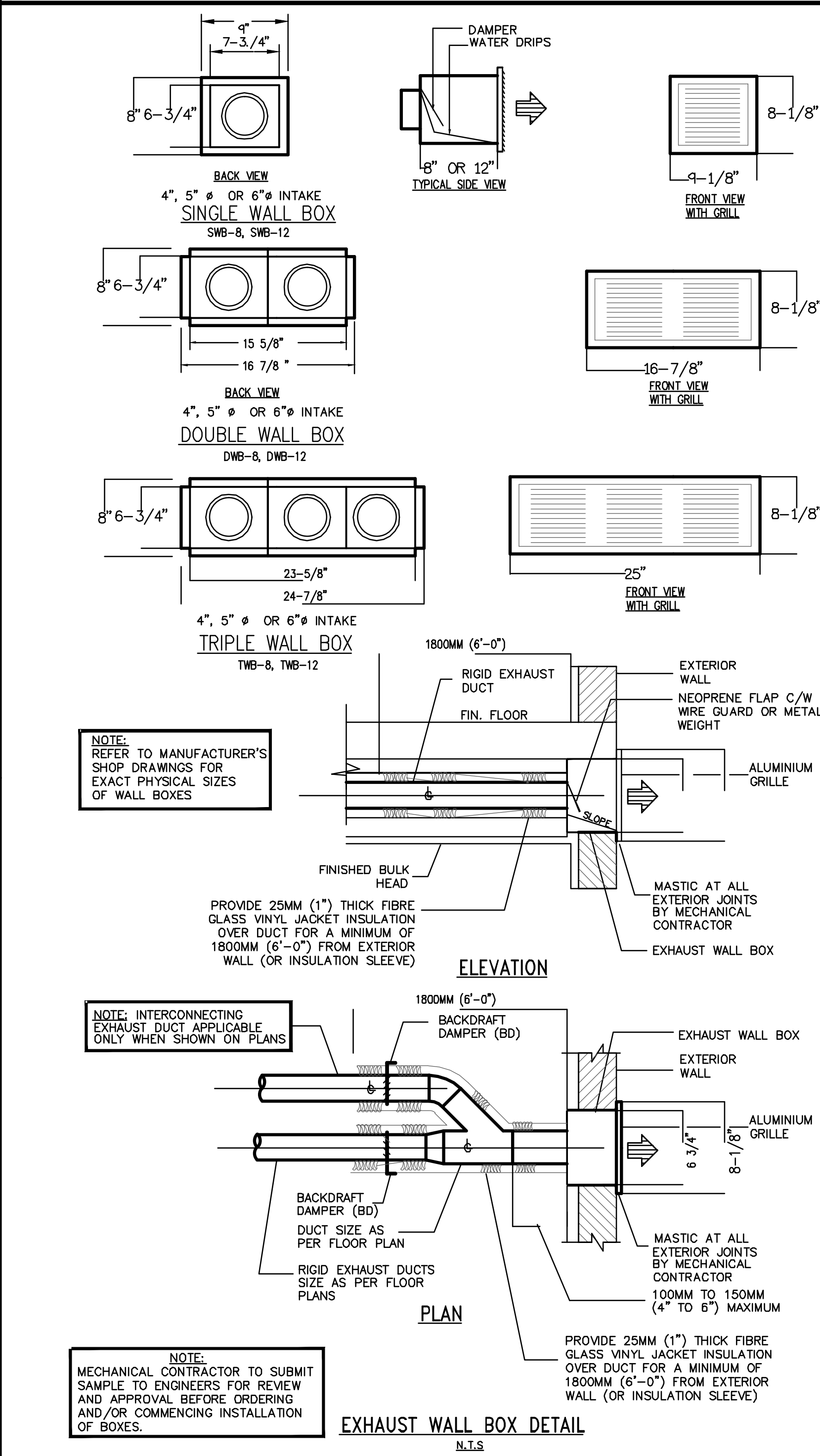
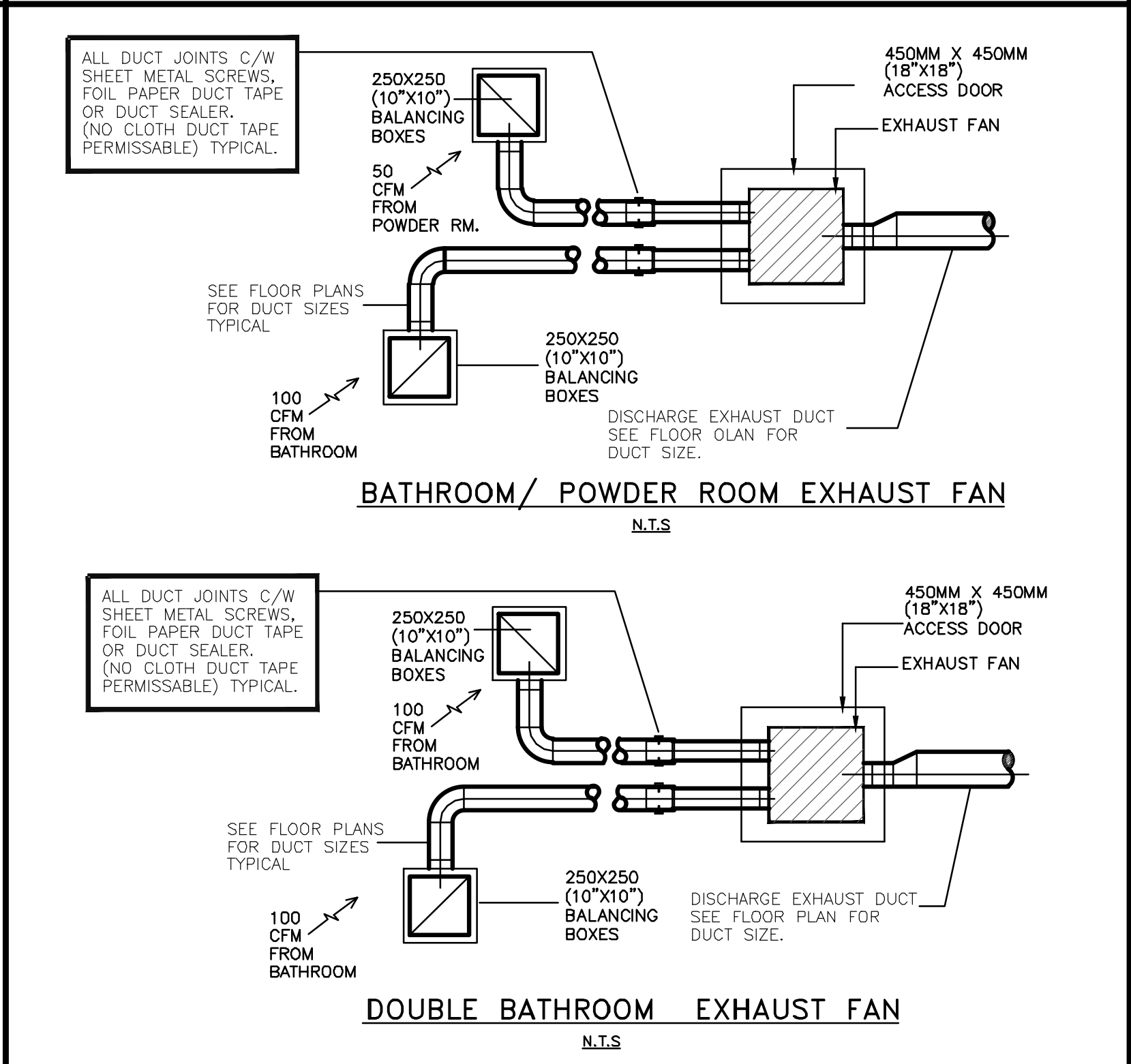
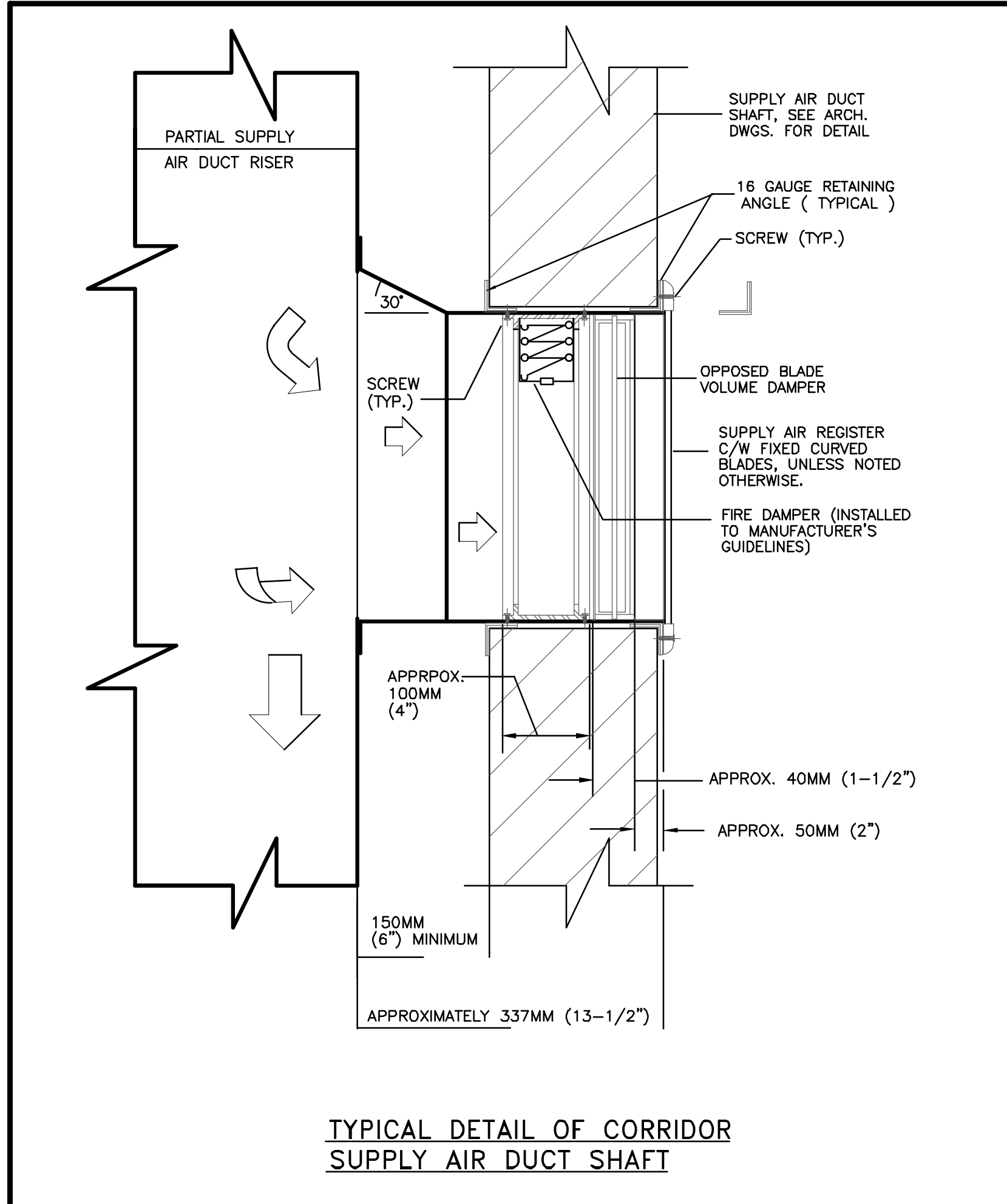


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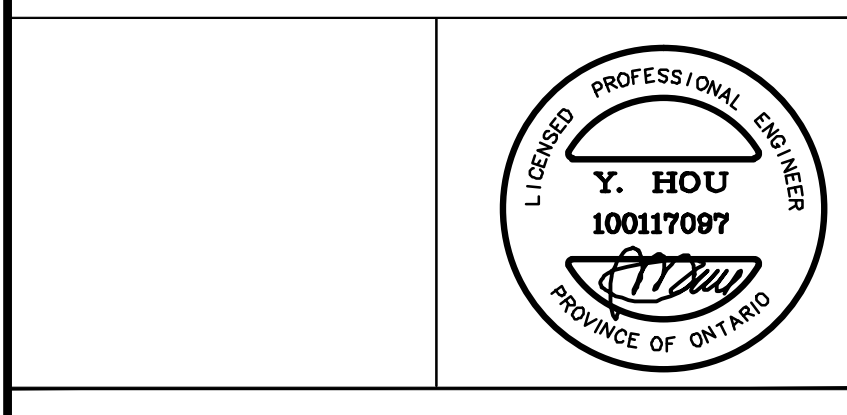
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NO.	BY	DESCRIPTION	DATE
1	LB	ISSUED FOR TENDER	MAR/21/2016
2	LB	ISSUED FOR PERMIT	DEC/28/2016
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
4	LB	REVISED AS PER SITE INSTRUCTION IT-5 ISSUED FOR CONSTRUCTION	AUG/09/2017

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DETAILS MECHANICAL			
PROJECT 25 BAKER HILL BLVD. ROYAL PINE HOMES			
STOUFFVILLE, ONTARIO PROPOSED RESIDENTIAL DEVELOPMENT			
DRAWN GC JUNE 2015	CHECKED BT 14-016	SCALE N.T.S. DRAWING M-42 OF 42	