UNITED ENGINEERING INC
Mechanical and Electrical Consulting Engineers

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SITE INSTRUCTION

PROJECT: HAMPTON MANOR
25 BAKER HILL BLVD
STOUFFVILLE, ONTARIO

PROJECT NO: 14-016

CONTRACT: Mechanical

DATE June 03, 2019

SITE INSTRUCTION: M-27

THIS SITE INSTRUCTION IS NOT TO BE CONSTRUED AS A CHANGE IN THE CONTRACT PRICE, BUT IS ISSUED FOR CLARIFICATION ONLY. IF A CHANGE IN CONTRACT PRICE IS PERCEIVED, PROVIDE AN ITEMIZED BREAKDOWN OF ANY EXTRAS OR CREDITS WITHIN SEVEN (7) WORKING DAYS.

Purpose: Add gas line for patio BBQ as requested.

1.0 Reference Drawing M-4 (Parking Level Plan) Issued

1.1 Add: 2.0 lb gas line to bottom of patio BBQ.

2.0 Reference Drawing M-5, M-8 (1st Floor Level) Issued

2.1 Add: Capped gas line with PRV and shut-off valve for BBQ.

PREPARED BY: _____
Leon Bai
Mechanical Department

ISSUED TO ROYAL PINE HOMES,
Cinzia Caruso, Cinzia@royalpinehomes.com;
Vince Staffieri, vince@royalpinehomes.com
FOR DISTRIBUTION TO ALL AFFECTED PARTIES.

INV 255.477
INV 256.980±

BACKFLOW PREVENTER

ROUTE OF EXISTING 525ø CITY AREA STORM

(19) LOUVERS

250ø STM @ 0.5%

300ø STM @ 1.2%

250X200 f/d

3500X200 EXHAUST GRILLE C/W F/D

F-12

250ø STM @ 0.5%

200ø STM @ 0.7%

AD ABOVE

150ø STM @ 1%

3500X200 EXHAUST GRILLE C/W F/D

250X200

INV257.450±

ROUTE OF EXISTING 525ø CITY AREA STORM

INV255.700±

296 CFM

100ø STM @ 1%

4000X250 TRANSFER GRILLE C/W F/D AT LOW LEVEL

F-11

90,000 CFM

TD ABOVE

65ø GAS EMERGENCY
100ø GAS PIPING
100ø DOMESTIC COLD WATER SUPPLY
75ø DIRECT HEATING WATER SUPPLY
75ø DIRECT HEATING WATER RETURN

20ø NON FREEZE HOSE BIBB

CONDENSING UNIT INSTALLED AT HIGH LEVEL TO MATCH FGU AT GROUND FLR ABOVE

F-8

900x300 EXHAUST AIR LOUVRE C/W FD

4000X250 TRANSFER GRILLE C/W F/D AT LOW LEVEL

1500X2500 INTAKE AIR LOUVER C/W F/D

3000X2500 INTAKE AIR LOUVER C/W F/D

20ø 7 INCHES GAS LINE UP FOR PATIO BBQ

for fire rated bulkhead

typical detail

THRU FLR C/W 2 HR FIRE RATED ENCLOSURE

350x300 PRESS AIR DUCT UP

F-10

F-9

700x300 INTAKE AIR LOUVRE C/W FD AT LOW LEVEL

150 L/S (600X600)

150 L/S (600X300)

100 L/S (600X600)

150 L/S (600X150)

150 L/S (600X300)

100 L/S (600X600)

100 L/S (1500X125)

150 L/S (600X600)

F-13

F-14

F-15

F-16

F-17

600x250

400x250

500x250

250x250

700x300

500x300

900x400 INTAKE AIR LOUVRE C/W FD AT LOW LEVEL

400X400 EXHAUST AIR LOUVRE C/W FD

250X250, S/A DUCT UP C/W F/D @ SLAB

F/D ON GROUND FLOOR SLAB

150ø RVL UP & DN

100ø RVL UP

100ø RVL DN

100ø SAN @ 1%

200ø SAN @ 0.5%

150ø SAN @ 1%

250x200

250x150

150x150

300x250

300x300

350x300

FD ADV

30ø INV & C/V

FGU AT HIGH LEVEL

CONDENSING UNIT INSTALLED AT HIGH LEVEL TO MATCH FGU AT GARBAGE ROOF

CONDENSING UNIT INSTALLED AT HIGH LEVEL TO MATCH FGU AT COMPS ROOF

CONDENSING UNIT INSTALLED AT HIGH LEVEL TO MATCH FGU AT GAS' ROOM ABOVE

CONDENSING UNIT INSTALLED AT HIGH LEVEL TO MATCH FGU AT GROUND FLR ABOVE

GENERATOR GAS PIPE IN BASEMENT IN 2HR FIRE RATED ENCLOSURE

CLEANOUT FLOOR

FUNNEL DRAIN @ FLOOR

STAIR UP

STAIR DN

EXIT RAMP

ELEVATOR

ELEC

TANDEM CAR

UNEXCAVATED

outline of building above

outline of transfer slab above

outline of shaft above

closet above

90,000 CFM GARAGE EXHAUST AIR

continuous linear drain

sump pits-refer to mech. dwgs for type/size/location

NV ELEV 257.40

NV ELEV 257.31

NV ELEV 257.25

75ø SANITARY DISCHARGE FROM BELOW INSULATE & ELECTRICALLY TRACE EXPOSED PIPE THROUGH OUT

100ø STORM DISCHARGE FROM BELOW INSULATE & ELECTRICALLY TRACE EXPOSED PIPE THROUGH OUT

CONNECT CEMENT

700x300 EXHAUST AIR LOUVER C/W F/D

MECHANICAL ROOM

20ø NON FREEZE HOSE BBIB

400X250 INTAKE AIR LOUVER C/W F/D AT LOW LEVEL

700x300 INTAKE AIR LOUVER C/W F/D AT LOW LEVEL

3000X250 EXHAUST AIR LOUVER C/W F/D

P-1

P-2

P-3

WATER SOFTENER

WATER METER

10 KW ELECT. UNIT HEATER

75ø PIPE

100ø PIPE

300X300 WATER

M

G

MAIN ELECTRICAL ROOM (transformer above)

1500X4200 INTAKE AIR LOUVRE C/W F/D AT LOW LEVEL

3000X2500 INTAKE AIR LOUVER C/W F/D

1900X2500 INTAKE AIR LOUVER C/W F/D

ISOLATE & ELECTRICALLY TRACE INDICATED RUN

2 HR FIRE RATED ENCLOSURE

350x300 PRESS AIR DUCT UP THRU FLR C/W 2 HR FIRE RATED ENCLOSURE

PRESS FAN AT LOW LEVEL (TYP. OF 3)

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 100ø 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
14	LB	REVISED AS PER SITE INSTRUCTION M-27	JUN/03/2019
13	LB	REVISED AS PER SITE INSTRUCTION M-26	MAY/06/2019
12	LB	REVISED AS PER SITE INSTRUCTION M-25	JAN/15/2019
11	LB	REVISED AS PER SITE INSTRUCTION M-22	AUG/03/2018
10	LB	REVISED AS PER SITE INSTRUCTION M-17	JUN/04/2018
9	LB	REVISED AS PER SITE INSTRUCTION M-13	FEB/01/2018
8	LB	REVISED AS PER SITE INSTRUCTION M-12	DEC/13/2017
7	LB	REVISED AS PER SITE INSTRUCTION M-11	DEC/11/2017
6	LB	REVISED AS PER SITE INSTRUCTION M-9	OCT/31/2017
5	LB	REVISED AS PER SITE INSTRUCTION M-7	SEP/11/2017
4	LB	ISSUED FOR SITE INSTRUCTION M-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
3	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
2	LM	ISSUED FOR PERMIT	DEC/28/2016
1	LM	ISSUED FOR TENDER	MAR/21/2016

REVISIONS

This drawing, is an instrument of service, is provided by and is the property of United Engineering Inc. The contractor must verify and accept responsibility for all dimensions and conditions on site and must notify United Engineering Inc. of any discrepancy before proceeding.
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Refer to the appropriate trade drawings before proceeding with any work. Installation must conform to all applicable codes and requirements of the authorities having jurisdiction.
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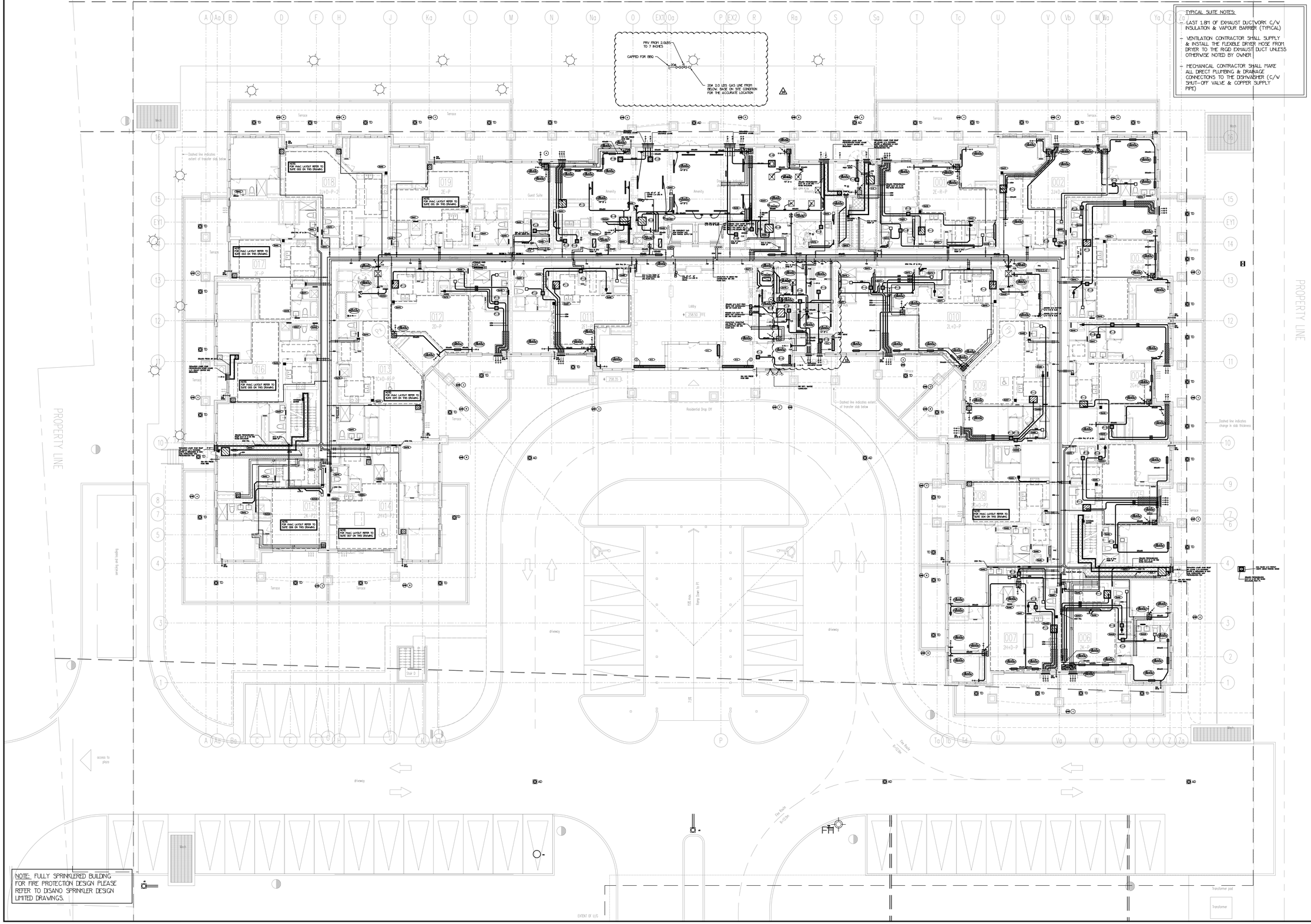
TITLE
PARKING LEVEL PLAN MECHANICAL

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-4
		OF 42



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11	LB	REVISED AS PER SITE INSTRUCTION FI-24	NOV/06/2018
10	LB	REVISED AS PER SITE INSTRUCTION FI-20	JUN/22/2018
9	LB	REVISED AS PER SITE INSTRUCTION FI-17	JUN/04/2018
8	LB	REVISED AS PER SITE INSTRUCTION FI-14	MAR/14/2018
7	LB	REVISED AS PER SITE INSTRUCTION FI-10	OCT/31/2017
6	LB	REVISED AS PER SITE INSTRUCTION FI-7	SEP/11/2017
5	LB	REVISED AS PER SITE INSTRUCTION FI-5 ISSUED FOR CONSTRUCTION	AUG/09/2017
4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	OP	REVISED AS PER SITE INSTRUCTION FI-3	MAR/02/2017
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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	1:100
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JUNE 2015	14-016	M-5
		OF 42

PRV FROM 2.0LBS TO 7 INCHES

CAPPED FOR BBQ

20ø

20ø 2.0 LBS GAS LINE FROM BELOW. BASE ON SITE CONDITION FOR THE ACCURATE LOCATION

- 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)

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

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4	LB	PROGRESS FOR CONSTRUCTION	JUL/18/2017
3	OP	REVISED AS PER SITE INSTRUCTION M-3	MAR/02/2017
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GC	BT	1:50
DATE	PROJECT	DRAWING
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